

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers, Melissa L. Schwarzell

1. Please provide the total number of water service meters assigned to Lexington as a customer in the base period and in the forecasted test period, and the total revenue requirement assigned to Lexington as a customer in the base period and the forecasted test period.

Response:

As of August 31, 2018, LFUCG has 225 water service meters as a customer. No adjustments were made to the LFUCG accounts in arriving at both base and test year billing determinants.

The revenue requirement is assigned to the total customer class using billing determinants and usage as a class, not on an individual customer basis.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
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FIRST REQUEST FOR INFORMATION**

Witness: Kevin Rogers

2. Under how many different types of customer rate classes does Lexington currently make payments to KAWC? For each type of class, please provide the following information:
- (a) The type of customer rate class;
 - (b) The number of accounts in each such class;
 - (c) Whether such accounts are metered;
 - (d) The account numbers for each separate account;
 - (e) The physical location, by street address, GPS marker (or other easily understood designation) of each separate account;
 - (f) The basis and explanation for treating the account as a separate account, whether it is because it is separately metered or otherwise;
 - (g) The total amount paid by Lexington to KAWC for the provision of water for each of its separate accounts for each year, going back the inception of KAWC's last approved rate increase; and
 - (h) The total net projected impact for each such class under the proposed rate increase.

Response:

- (a) See the attachment.
- (b) 2 Residential, 9 Commercial, 189 OPA, 36 Private Fire, 3 Public Fire.
- (c) All accounts except fire service accounts are metered.
- (d) Due to privacy concerns and after discussion with LFUCG counsel, KAW is not filing account information in response to this question.
- (e) See attachment referenced above.
- (f) A separate account is determined by the existence of a service line and meter to serve a specific location.
- (g) See attachment referenced above.
- (h) Please see Exhibit 37, Schedule M, Page 15 of 38 for percentage increase by customer class.

LFUCG Active Account Details
As Dec 31, 2018
Sorted by Steet Name, House #

Premise	Name	Account Class	Premise House Number	Premise Street	Premise City	Premise State	Premise Postal Code	Sept 2016 thru Dec 2016	Total 2017	Total 2018
9120138412	LFUCG	OPA	469	Anniston Dr	Lexington	KY	40505-2239	432.02	1,367.01	1,340.84
9120029333	LFUCG	Private Fire Service – Non Residential	3001	Arrowhead Dr	Lexington	KY	40503-2733	146.99	441.12	392.73
9120076156	LFUCG	OPA	3001	Arrowhead Dr	Lexington	KY	40503-2733	553.41	2,598.49	2,042.45
9120081310	LFUCG W Hickman Creek	OPA	3174	Ashgrove Pike	Nicholasville	KY	40356-9229	5,750.54	25,488.67	11,504.81
9120044586	LFUCG	OPA	5722	Athens-Bnsb Pike	Lexington	KY	40509-9449	640.76	2,117.59	1,872.38
9120062998	LFUCG	OPA	Not assigned	Bellcastle Rd	Lexington	KY	40505	2,828.12	9,654.42	3,431.18
9120061388	LFUCG	OPA	1870	Benton Pl	Lexington	KY	40505-1602	155.94	498.35	732.96
9120044080	LFUCG	OPA	2500	Bowman Mill Rd	Lexington	KY	40513-9702	1,668.17	4,650.67	2,478.27
9120042979	LFUCG	OPA	3551	Briar Hill Pike	Lexington	KY	40516-9710	92.66	176.90	184.65
9120042977	LFUCG	Residential	3601	Briar Hill Pike	Lexington	KY	40516-9710	-	-	44.54
9120063208	LFUCG	OPA	1050	Briarwood Dr	Lexington	KY	40511-1111	95.45	325.38	393.58
9120020794	LFUCG	OPA	Not assigned	Brunswick Rd	Lexington	KY	40503	9,164.15	12,852.37	10,049.35
9120089119	LFUCG	OPA	3300	Brunswick Rd	Lexington	KY	40503-4309	16,032.25	24,190.32	18,696.05
9120131113	LFUCG	OPA	612	Bryanwood Pkwy	Lexington	KY	40505-2714	-	170.35	408.84
9120072205	LFUCG	OPA	3318	Buckhorn Dr	Lexington	KY	40515-1007	2,351.68	5,718.01	4,822.22
9120072600	LFUCG	OPA	3489	Buckhorn Dr	Lexington	KY	40515-1015	54.46	160.95	167.00
9120053107	LFUCG	Residential	300	Burley Ave	Lexington	KY	40503-1012	53.92	149.88	151.44
9120065514	LFUCG	OPA	2077	Cambridge Dr	Lexington	KY	40504-1923	204.25	735.92	755.86
9120065526	LFUCG	OPA	2077	Cambridge Dr	Lexington	KY	40504-1923	551.30	501.81	561.88
9120035247	LFUCG	OPA	Not assigned	Castlewood Dr	Lexington	KY	40502	186.50	553.45	1,095.05
9120090376	LFUCG	OPA	201	Castlewood Dr	Lexington	KY	40505-3629	596.34	2,121.79	2,215.34
9120035393	LFUCG	OPA	Not assigned	Castlewood Park	Lexington	KY	40507	54.07	180.77	170.45
9120113889	LFUCG	OPA	1165	Centre Pkwy	Lexington	KY	40517-3229	175.13	519.02	437.76
9120028576	LFUCG	OPA	115	Cisco Rd	Lexington	KY	40504-1107	434.69	1,308.48	3,384.34
9120029244	LFUCG	Private Fire Service – Non Residential	115	Cisco Rd	Lexington	KY	40504-1107	-	-	839.53
9120008233	LFUCG	OPA	Not assigned	Claredon Dr	Lexington	KY	40507	53.73	741.99	163.56
9120128142	LFUCG	Private Fire Service – Non Residential	4393	Clearwater Way	Lexington	KY	40515-6002	329.17	992.16	963.24
9120047022	LFUCG City Hall	OPA	200	Clinton Rd	Lexington	KY	40502-1924	408.13	952.02	593.94
9120050501	LFUCG	OPA	619	Congress St	Lexington	KY	40507	60.19	170.44	231.58
5000097451	LFUCG	OPA	3205	Cornwall Dr	Lexington	KY	40503-3404	-	85.46	172.22
9120093561	LFUCG	OPA	3800	Crosby Dr	Lexington	KY	40515	154.40	519.02	494.84
9120105304	LFUCG	OPA	2120	Deauville Dr	Lexington	KY	40504-1311	54.33	170.44	161.13
9120001883	LFUCG	OPA	2005	Dogwood Dr	Lexington	KY	40504-3407	54.37	167.00	167.00
9120038348	LFUCG	OPA	247	E 2nd St	Lexington	KY	40507-2103	640.99	1,556.40	1,477.42
9120028772	LFUCG	Private Fire Service – Non Residential	219	E 3rd St	Lexington	KY	40508-1827	329.84	992.16	960.13
9120038276	LFUCG	OPA	211	E 3rd St	Lexington	KY	40508-1827	108.61	352.92	333.07
9120038278	LFUCG	OPA	219	E 3rd St	Lexington	KY	40508-1827	602.70	2,078.70	2,569.57
9120038285	LFUCG	OPA	226	E 3rd St	Lexington	KY	40508-1828	54.00	163.56	163.56
9120038628	LFUCG	OPA	219	E 3rd St	Lexington	KY	40508-1827	449.20	1,341.90	1,320.92
9120135988	LFUCG Lyric Theater	Private Fire Service – Non Residential	300	E 3rd St	Lexington	KY	40508-1945	146.65	441.12	426.87
9120135996	LFUCG	OPA	300	E 3rd St	Lexington	KY	40508-1945	582.20	1,773.30	1,696.51
9120136605	LFUCG	OPA	577	E 3rd St	Lexington	KY	40508-1612	135.14	406.21	408.84
9120091459	LFUCG	OPA	100	E 5th St	Lexington	KY	40508-1428	64.40	228.98	255.49
9120029773	LFUCG	OPA	700	E High St	Lexington	KY	40502-1713	1,074.02	3,243.61	3,020.85
9120107492	LFUCG	OPA	601	E High St	Lexington	KY	40502-1767	4,896.02	16,933.02	27,547.35
9120027752	LFUCG	OPA	162	E Main St	Lexington	KY	40507-1318	1,002.71	2,323.34	2,450.40
9120027753	LFUCG	OPA	200	E Main St	Lexington	KY	40507-1310	2,409.36	6,784.06	5,815.28
9120029701	LFUCG Art Center	Private Fire Service – Non Residential	141	E Main St	Lexington	KY	40507-1317	329.95	992.16	960.13
9120029703	LFUCG	Private Fire Service – Non Residential	162	E Main St	Lexington	KY	40507-1318	183.02	404.36	429.12
9120029704	LFUCG	Private Fire Service – Non Residential	150	E Main St	Lexington	KY	40507-1351	731.78	1,616.78	1,733.27
9120029705	LFUCG Kentucky Theater	Private Fire Service – Non Residential	216	E Main St	Lexington	KY	40507-1326	411.64	909.48	982.64
9120029706	LFUCG	Private Fire Service – Non Residential	208	E Main St	Lexington	KY	40507-1310	446.52	1,025.55	1,199.94
9120029875	LFUCG	OPA	200	E Main St	Lexington	KY	40507-1310	3,203.00	9,016.02	3,177.60
9120039655	LFUCG	OPA	150	E Main St	Lexington	KY	40507-1318	1,039.88	2,023.98	2,215.06
9120039658	LFUCG	OPA	210	E Main St	Lexington	KY	40507-1310	314.34	780.01	798.96
9120039659	LFUCG	OPA	218	E Main St	Lexington	KY	40507-1310	346.54	149.93	163.56
9120039660	LFUCG	OPA	216	E Main St	Lexington	KY	40507-1310	53.49	724.78	568.28

LFUCG Active Account Details
As Dec 31, 2018
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Premise	Name	Account Class	Premise House Number	Premise Street	Premise City	Premise State	Premise Postal Code	Sept 2016 thru Dec 2016	Total 2017	Total 2018
9120039661	LFUCG	OPA	218	E Main St	Lexington	KY	40507-1310	79.82	225.55	222.54
9120040499	LFUCG	OPA	120	E Main St	Lexington	KY	40507-1339	3,523.23	6,275.78	15,507.10
9120080387	LFUCG Art Center	OPA	141	E Main St	Lexington	KY	40507-1317	743.05	2,114.15	2,080.15
9120080388	LFUCG Art Center	OPA	141	E Main St	Lexington	KY	40507-1317	848.12	2,458.46	2,631.69
9120101840	LFUCG	OPA	212	E Main St	Lexington	KY	40507-1310	170.72	457.44	474.93
9120137476	LFUCG	OPA	201	E Main St	Lexington	KY	40507-2003	2,531.02	2,030.51	408.84
9120029769	LFUCG	Public Fire Service – Non Residential	200	E Main St	Lexington	KY	40507-1354	1,233,212.68	4,008,376.84	3,292,743.14
9120030140	LFUCG	Public Fire Service – Non Residential	200	E Main St	Lexington	KY	40507-1310	1,608.48	4,825.44	4,653.36
9120055430	LFUCG	OPA	415	E New Circle Rd	Lexington	KY	40505-2618	434.21	911.52	508.85
9120038277	LFUCG	OPA	229	E Third St	Lexington	KY	40508-1803	186.41	529.37	642.58
9120029207	LFUCG	Private Fire Service – Non Residential	101	E Vine St	Lexington	KY	40507-1459	411.64	909.48	965.20
9120029836	LFUCG	OPA	101	E Vine St	Lexington	KY	40507-1459	3,689.16	7,349.98	7,962.88
9120030053	LFUCG	Private Fire Service – Non Residential	200	E. Main St	Lexington	KY	40507-1310	319.08	957.24	921.76
5000078040	LFUCG Lexington Fire Dept	Private Fire Service – Non Residential	1276	Eastland Dr	Lexington	KY	40505-3818	-	14,931.65	960.00
5000084337	LFUCG	Commercial	1276	Eastland Dr	Lexington	KY	40505-3818	-	1,086.52	1,687.01
9120096017	LFUCG	OPA	1850	Eastland Pkwy	Lexington	KY	40505	54.02	163.56	163.56
9120068123	LFUCG	OPA	1521	Elizabeth St	Lexington	KY	40503-1159	53.53	184.21	173.89
9120051759	LFUCG	OPA	550	Elk Lake Dr	Lexington	KY	40517-4154	87.44	173.88	167.00
9120042492	LFUCG	OPA	2201	Elkhorn Rd	Lexington	KY	40505-4837	141.66	426.05	431.14
9120081818	LFUCG	Commercial	951	Enterprise Dr	Lexington	KY	40510-1001	145.73	388.43	371.69
9120118314	LFUCG	Commercial	900	Enterprise Dr	Lexington	KY	40510-1032	314.77	938.56	905.96
9120120942	LFUCG	Private Fire Service – Non Residential	900	Enterprise Dr	Lexington	KY	40510-1032	330.52	992.16	957.56
9120063066	LFUCG	OPA	1138	Finney Dr	Lexington	KY	40511-1812	412.94	1,324.69	1,205.85
9120033805	LFUCG	OPA	770	Florida St	Lexington	KY	40508-1408	57.51	163.56	167.00
9120112890	LFUCG	OPA	3770	Forest Green Dr	Lexington	KY	40517-1910	173.18	525.91	477.70
9120132782	LFUCG	Private Fire Service – Non Residential	2269	Frankfort Ct	Lexington	KY	40510-9673	330.52	1,009.60	957.56
9120138591	LFUCG	OPA	2265	Frankfort Ct	Lexington	KY	40510-9673	139.43	415.72	412.28
9120028325	LFUCG	OPA	1400	Gainesway Dr	Lexington	KY	40517-2820	622.69	3,128.50	2,363.75
9120028326	LFUCG	OPA	1400	Gainesway Dr	Lexington	KY	40517-2820	3,110.25	15,400.92	13,715.67
9120028328	LFUCG	OPA	1400	Gainesway Dr	Lexington	KY	40517-2820	-	3,783.75	2,668.22
9120028359	LFUCG	OPA	Not assigned	Gainesway Dr	Lexington	KY	40507	137.74	429.49	474.89
9120029590	LFUCG	Private Fire Service – Non Residential	1400	Gainesway Dr	Lexington	KY	40517-2820	329.43	977.44	962.58
9120081204	LFUCG	OPA	1400	Gainesway Dr	Lexington	KY	40517-2820	51,936.99	63,473.79	62,813.57
9120032039	LFUCG	OPA	726	Georgetown St	Lexington	KY	40508-1023	373.75	1,107.26	1,105.09
9120032292	LFUCG	OPA	500	Georgetown St	Lexington	KY	40508-1109	394.56	1,303.49	1,272.92
9120030859	LFUCG	OPA	Not assigned	Gratz Park	Lexington	KY	40507	586.51	1,843.77	1,033.03
9120000668	LFUCG	OPA	1630	Harrodsburg Rd	Lexington	KY	40504-3706	177.63	545.72	431.71
9120029245	LFUCG Family Care Center	Private Fire Service – Non Residential	1135	Harry Sykes Way	Lexington	KY	40504-1383	330.40	992.16	945.09
9120084323	LFUCG	OPA	1135	Harry Sykes Way	Lexington	KY	40504-1383	95.52	273.76	285.35
9120093110	LFUCG Family Care Center	OPA	1135	Harry Sykes Way	Lexington	KY	40504-1383	2,754.48	6,211.39	4,918.02
9120120884	LFUCG	OPA	1177	Harry Sykes Way	Lexington	KY	40504-1383	582.45	2,248.43	2,280.77
9120122852	LFUCG	Private Fire Service – Non Residential	1177	Harry Sykes Way	Lexington	KY	40504-1383	330.40	992.16	945.09
9120122943	LFUCG	OPA	1160	Harry Sykes Way	Lexington	KY	40504-1383	92.08	263.42	1,257.19
9120122945	LFUCG	OPA	1155	Harry Sykes Way	Lexington	KY	40504-1383	231.88	725.59	743.37
9120015764	LFUCG	OPA	372	Harvard Dr	Lexington	KY	40517-1509	220.97	422.61	412.28
9120035391	LFUCG	OPA	Not assigned	Highland Park Dr	Lexington	KY	40507	275.94	432.94	1,035.92
9120028190	LFUCG	OPA	625	Hill N Dale Rd	Lexington	KY	40503-2116	313.28	23,755.60	23,639.03
9120070730	LFUCG	OPA	625	Hill N Dale Rd	Lexington	KY	40503-2116	54.42	163.56	163.56
9120070731	LFUCG	OPA	625	Hill N Dale Rd	Lexington	KY	40503-2116	14,287.17	426.04	437.28
9120071397	LFUCG	OPA	625	Hill N Dale Rd	Lexington	KY	40503-2116	170.38	594.78	632.25
9120080564	LFUCG	OPA	625	Hill-N-Dale Dr	Lexington	KY	40503-2116	1,250.10	2,344.85	2,390.95
9120088008	LFUCG	OPA	707	Howard St	Lexington	KY	40508-1075	4,700.11	560.33	615.28
9120110235	LFUCG	OPA	3360	Huffman Mill Pike	Lexington	KY	40511-9551	299.06	976.94	855.86
9120030786	LFUCG	OPA	246	Jefferson St	Lexington	KY	40508-1217	149.85	470.00	435.66
9120091624	LFUCG	OPA	3403	Kearney Rd	Lexington	KY	40511-9083	2,384.52	6,820.78	12,764.69
9120094707	LFUCG	OPA	3403	Kearney Rd	Lexington	KY	40511-9083	8,373.90	46,349.17	4,095.30
5000075864	LFUCG	Commercial	1104	Kilrush Dr	Lexington	KY	40504-1307	613.71	1,308.48	1,289.06

LFUCG Active Account Details
As Dec 31, 2018
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Premise	Name	Account Class	Premise House Number	Premise Street	Premise City	Premise State	Premise Postal Code	Sept 2016 thru Dec 2016	Total 2017	Total 2018
9120064329	LFUCG	OPA	333	Larch Ln	Lexington	KY	40511-2007	270.42	418.33	1,062.18
9120064330	LFUCG	OPA	333	Larch Ln	Lexington	KY	40511-2007	149.51	553.45	521.09
9120041249	LFUCG	OPA	457	Larkwood Dr	Lexington	KY	40507	67.11	201.42	227.49
9120062693	LFUCG	OPA	1560	Lasalle Rd	Lexington	KY	40507	135.51	419.16	413.48
9120062694	LFUCG	OPA	1560	Lasalle Rd	Lexington	KY	40507	109.01	294.40	300.28
9120029099	LFUCG	Private Fire Service – Non Residential	3051	Leestown Rd	Lexington	KY	40511-8701	604.80	1,763.76	1,694.30
9120064432	LFUCG	OPA	1436	Leestown Rd	Lexington	KY	40511-2040	539.24	1,677.64	1,649.80
9120099957	LFUCG	OPA	3051	Leestown Rd	Lexington	KY	40511-8701	3,292.89	10,811.27	20,263.89
9120104641	LFUCG	OPA	3051	Leestown Rd	Lexington	KY	40511-8701	7,959.78	22,101.02	37,319.26
9120111500	LFUCG	OPA	3231	Leestown Rd	Lexington	KY	40511-8767	187.38	532.80	993.42
9120044216	LFUCG	OPA	1793	Liberty Rd	Lexington	KY	40505-4205	108.47	304.72	275.48
9120077209	LFUCG	OPA	1793	Liberty Rd	Lexington	KY	40505-4205	145.01	436.39	408.84
5000051399	LFUCG	Commercial	195	Life Lane	Lexington	KY	40502	1,740.38	4,088.03	3,954.01
5000052600	LFUCG	Private Fire Service – Non Residential	195	Life Lane	Lexington	KY	40502	725.53	1,624.37	1,708.49
9120029131	LFUCG	Private Fire Service – Non Residential	301	Lisle Industria Rd	Lexington	KY	40511-2061	330.40	992.16	958.11
9120028343	LFUCG	OPA	3700	Man O War Blvd	Lexington	KY	40515-3800	242.80	691.15	676.85
9120028624	LFUCG	Private Fire Service – Non Residential	3161	Mapleleaf Dr	Lexington	KY	40509-1256	146.59	441.12	427.36
9120076022	LFUCG	OPA	3161	Mapleleaf Dr	Lexington	KY	40509-1256	1,527.29	6,135.61	938.81
9120063531	LFUCG	OPA	1991	Mark Ave	Lexington	KY	40507	54.33	177.33	167.00
9120113118	LFUCG	OPA	1991	Mark Ave	Lexington	KY	40511	163.19	488.03	508.18
9120004228	LFUCG	OPA	1622	Maywick View Ln	Lexington	KY	40504-2112	54.41	163.56	163.56
9120097481	LFUCG	OPA	1616	Maywick View Ln	Lexington	KY	40504-2112	442.13	1,329.14	1,322.24
9120063725	LFUCG	OPA	1625	McCullough Dr	Lexington	KY	40511-1576	278.49	13,657.67	2,665.12
9120045757	LFUCG	OPA	370	Merino St	Lexington	KY	40508-2528	219.04	714.44	663.86
9120096262	LFUCG	OPA	121	Midland Ave	Lexington	KY	40502	11,951.44	29,169.58	25,260.43
9120130539	LFUCG	OPA	3460	Milano Rd	Lexington	KY	40517-3166	280.30	825.44	716.76
9120136312	LFUCG	Commercial	1152	Monarch St	Lexington	KY	40513-1888	-	-	46.39
9120136501	LFUCG	Commercial	1152	Monarch St	Lexington	KY	40513-1888	-	-	46.39
9120122249	LFUCG	OPA	3190	Montavesta Rd	Lexington	KY	40502-3507	662.73	1,478.83	(203.19)
9120060351	LFUCG	OPA	1725	N Broadway	Lexington	KY	40505-1403	276.58	755.77	717.88
9120084715	LFUCG Circuit & District Cour	OPA	120	N Limestone	Lexington	KY	40507-1152	15,218.65	31,392.71	31,947.13
9120133413	LFUCG Circuit & District Cour	Private Fire Service – Non Residential	120	N Limestone	Lexington	KY	40507-1152	329.39	992.16	1,001.50
9120028901	LFUCG	Private Fire Service – Non Residential	Not assigned	N Mill & 2nd St	Lexington	KY	40507	146.71	441.12	426.69
9120033072	LFUCG	OPA	543	N Upper St	Lexington	KY	40508-1481	453.11	2,660.59	2,261.60
5000082922	LFUCG	OPA	Not assigned	Newton/W Short	Lexington	KY	40508	365.32	1,098.42	2,270.68
5000078026	LFUCG	OPA	1875	Newtown Pike	Lexington	KY	40511-1329	-	5,918.39	3,260.19
9120027916	LFUCG	OPA	1825	Newtown Pike	Lexington	KY	40511-1329	555.50	660.16	638.71
9120029162	LFUCG Detention Center	Private Fire Service – Non Residential	600	Old Frankfort Cir	Lexington	KY	40510-9601	587.68	1,781.20	1,670.02
9120025580	LFUCG	OPA	1405	Old Frankfort Pike	Lexington	KY	40504-1156	99.09	273.74	310.14
9120025581	LFUCG	OPA	1631	Old Frankfort Pike	Lexington	KY	40504-1012	160.88	483.74	265.86
9120025582	LFUCG	OPA	1555	Old Frankfort Pike	Lexington	KY	40504-1123	850.79	2,048.75	1,989.72
9120025583	LFUCG	OPA	1401	Old Frankfort Pike	Lexington	KY	40504-1125	135.99	408.84	408.84
9120025591	LFUCG	OPA	1375	Old Frankfort Pike	Lexington	KY	40504-1161	509.95	1,617.34	1,111.44
9120025593	LFUCG	OPA	1410	Old Frankfort Pike	Lexington	KY	40504-1126	204.82	481.14	552.47
9120025595	LFUCG	OPA	1799	Old Frankfort Pike	Lexington	KY	40504-1019	308.90	852.17	356.78
9120028516	LFUCG	OPA	1345	Old Frankfort Pike	Lexington	KY	40504-1161	1,682.67	3,592.81	967.22
9120029177	LFUCG	Private Fire Service – Non Residential	1795	Old Frankfort Pike	Lexington	KY	40504-1019	330.52	992.16	957.56
9120029992	LFUCG	OPA	1515	Old Frankfort Pike	Lexington	KY	40504-1123	8,800.24	13,972.11	23,537.98
9120087535	LFUCG	Private Fire Service – Non Residential	1515	Old Frankfort Pike	Lexington	KY	40504-1123	146.95	441.12	425.72
9120088340	LFUCG	OPA	2185	Old Frankfort Pike	Lexington	KY	40510-9650	1,716.38	5,188.79	4,685.35
9120088341	LFUCG	Private Fire Service – Non Residential	2185	Old Frankfort Pike	Lexington	KY	40510-9650	587.57	1,763.76	1,702.24
9120097347	LFUCG	OPA	1795	Old Frankfort Pike	Lexington	KY	40504-1019	836.82	2,620.27	2,616.15
9120102336	LFUCG	OPA	1799	Old Frankfort Pike	Lexington	KY	40504-1019	345.06	725.62	754.90
9120114394	LFUCG Detention Center	OPA	2055	Old Frankfort Pike	Lexington	KY	40510-9601	555.64	1,457.67	1,613.70
9120115117	LFUCG Detention Center	OPA	2055	Old Frankfort Pike	Lexington	KY	40510-9601	71,949.45	221,447.14	237,042.62
9120030245	LFUCG Detention Center	Public Fire Service – Non Residential	2055	Old Frankfort Pike	Lexington	KY	40510-9601	714.88	2,144.64	2,068.16
9120075768	LFUCG	OPA	1670	Old Paris Rd	Lexington	KY	40505-2137	2,112.30	4,348.69	1,311.51

LFUCG Active Account Details
As Dec 31, 2018
Sorted by Steet Name, House #

Premise	Name	Account Class	Premise House Number	Premise Street	Premise City	Premise State	Premise Postal Code	Sept 2016 thru Dec 2016	Total 2017	Total 2018
9120022373	LFUCG	OPA	313	Owsley Ave	Lexington	KY	40502-1529	172.46	515.59	537.49
9120132574	LFUCG Kenwick Com Ctr	Private Fire Service – Non Residential	313	Owsley Ave	Lexington	KY	40502-1529	146.52	441.12	427.53
9120026023	LFUCG	OPA	2000	Parkers Mill Rd	Lexington	KY	40513-9700	143.63	397.70	379.42
9120076662	LFUCG	OPA	2000	Parkers Mill Rd	Lexington	KY	40513-9700	2,468.42	1,292.41	3,425.33
9120076663	LFUCG	OPA	2000	Parkers Mill Rd	Lexington	KY	40513-9700	448.92	2,445.82	1,473.90
9120077141	LFUCG	OPA	2000	Parkers Mill Rd	Lexington	KY	40513-9700	919.98	3,246.91	5,226.43
9120077142	LFUCG	OPA	2000	Parkers Mill Rd	Lexington	KY	40513-9700	926.24	3,556.79	3,707.12
9120059773	LFUCG	OPA	551	Parkside Dr	Lexington	KY	40505-1726	135.27	408.84	408.84
9120028048	LFUCG	OPA	469	Parkway Dr	Lexington	KY	40504-2709	1,029.43	5,505.84	7,177.02
9120029384	LFUCG	Private Fire Service – Non Residential	469	Parkway Dr	Lexington	KY	40504-2709	146.46	441.12	427.96
9120078187	LFUCG	OPA	469	Parkway Dr	Lexington	KY	40504-2709	194.14	1,097.46	11,760.15
9120081205	LFUCG	OPA	469	Parkway Dr	Lexington	KY	40504-2709	35,928.63	56,246.46	48,256.25
9120045882	LFUCG	OPA	522	Patterson St	Lexington	KY	40508-2800	249.14	1,094.01	785.04
9120122866	LFUCG	Private Fire Service – Non Residential	522	Patterson St	Lexington	KY	40508-2800	330.40	992.16	958.11
9120011995	LFUCG	OPA	Not assigned	Pepperhill Rd	Lexington	KY	40507-1310	140.48	481.14	753.94
9120001119	LFUCG	OPA	Not assigned	Pine Meadows Rd	Lexington	KY	40507	187.23	409.20	511.14
9120139380	LFUCG	OPA	1850	Pisacano Dr	Lexington	KY	40511	65.14	169.08	170.87
9120083925	LFUCG	OPA	1350	Pleasant Ridge Dr	Lexington	KY	40509-2354	152.64	452.77	400.94
9120105944	LFUCG	OPA	416	Rebmann Ln	Lexington	KY	40504-1163	359.41	1,665.56	1,786.46
9120123626	LFUCG	Private Fire Service – Non Residential	1177	Red Mile Pl	Lexington	KY	40504-1172	638.16	1,914.48	1,843.52
9120028301	LFUCG	OPA	396	Redding Rd	Lexington	KY	40517-2336	319.93	1,445.18	1,363.29
9120140116	LFUCG	Commercial	300	Reynolds Rd	Lexington	KY	40503-3579	9,709.45	12,824.18	7,177.51
9120024671	LFUCG	OPA	2234	Richmond Rd	Lexington	KY	40502-1311	280.67	846.12	891.12
9120024680	LFUCG	OPA	3721	Richmond Rd	Lexington	KY	40509-1822	8,474.47	6,662.22	9,941.84
9120029785	LFUCG	OPA	3721	Richmond Rd	Lexington	KY	40509-1822	42,571.33	52,081.39	31,812.39
9120103026	LFUCG	OPA	3725	Richmond Rd	Lexington	KY	40509-1822	154.88	556.90	604.54
9120020333	LFUCG	OPA	3308	Ridgecane Rd	Lexington	KY	40513-1061	88.70	215.20	187.34
9120004069	LFUCG	OPA	1528	Roanoke Rd	Lexington	KY	40504-2116	290.58	914.98	906.34
9120060151	LFUCG	OPA	507	Rogers Rd	Lexington	KY	40505-1917	155.74	501.79	425.63
9120060203	LFUCG	OPA	507	Rogers Rd	Lexington	KY	40505-1917	148.85	453.59	422.19
9120042541	LFUCG	OPA	4075	Royster Rd	Lexington	KY	40509-9558	186.82	552.63	603.45
9120087524	LFUCG	OPA	1098	S Cleveland Rd	Lexington	KY	40515-9319	172.69	435.55	477.40
9120050374	LFUCG	OPA	505	S Limestone St	Lexington	KY	40508-3216	266.26	821.18	745.98
9120136116	LFUCG	OPA	336	S Limestone St	Lexington	KY	40508-3008	133.70	408.84	408.84
9120136117	LFUCG	OPA	240	S Limestone St	Lexington	KY	40508-2535	677.70	835.78	408.84
9120028744	LFUCG Bell House	Private Fire Service – Non Residential	545	Sayre Ave	Lexington	KY	40508	146.59	441.12	427.41
9120077090	LFUCG	OPA	545	Sayre Ave	Lexington	KY	40508	531.04	1,666.55	1,524.45
9120132777	LFUCG Bell House	Private Fire Service – Non Residential	545	Sayre Ave	Lexington	KY	40508	329.72	992.16	961.35
9120071928	LFUCG	OPA	399	Southland Dr	Lexington	KY	40503-1824	235.83	773.79	735.65
9120099291	LFUCG	OPA	4244	Southmoor Park	Lexington	KY	40514-1816	54.45	173.88	167.00
9120081467	LFUCG	OPA	650	Southpoint Dr	Lexington	KY	40515-6350	945.38	1,916.89	869.74
9120069866	LFUCG	OPA	2450	Southview Dr	Lexington	KY	40503-2248	68.13	215.19	170.44
9120099292	LFUCG	OPA	424	Speigle St	Lexington	KY	40508-2440	54.33	163.56	163.56
9120031885	LFUCG	OPA	1033	St Martins Ave	Lexington	KY	40511-2203	200.56	794.48	947.01
9120132903	LFUCG	OPA	2908	Sullivans Trace	Lexington	KY	40511-8690	57.73	163.56	163.56
9120007159	LFUCG	OPA	3307	Tates Creek Rd	Lexington	KY	40502-3407	339.90	901.18	855.17
9120000938	LFUCG	OPA	1631	Tazwell Dr	Lexington	KY	40504-2354	501.07	545.73	167.00
9120029181	LFUCG Div of Solid Waste	Private Fire Service – Non Residential	360	Thompson Rd	Lexington	KY	40508-2045	330.40	992.16	992.48
9120064864	LFUCG	OPA	319	Thompson Rd	Lexington	KY	40508-2044	54.33	273.74	304.73
9120064866	LFUCG	OPA	360	Thompson Rd	Lexington	KY	40508-2045	503.14	2,002.97	2,075.33
9120048610	LFUCG	OPA	956	Turkeyfoot Rd	Lexington	KY	40502-2758	1,721.65	3,040.32	1,740.77
9120029238	LFUCG	Private Fire Service – Non Residential	1306	Versailles Rd	Lexington	KY	40504-1796	587.36	1,763.76	1,703.21
9120068057	LFUCG	OPA	1306	Versailles Rd	Lexington	KY	40504-1796	709.10	3,987.19	2,258.12
9120137707	LFUCG	OPA	1302	Versailles Rd	Lexington	KY	40504-1117	499.94	1,497.86	1,715.44
9120096458	LFUCG	OPA	251	W 2nd St	Lexington	KY	40507-1135	580.84	1,534.72	1,829.07
9120029860	LFUCG	OPA	575	W 6th St	Lexington	KY	40508-1341	319.44	945.95	901.43
5000082921	LFUCG	OPA	Not assigned	W High/Cox St	Lexington	KY	40508	228.52	1,492.91	829.59

LFUCG Active Account Details
As Dec 31, 2018
Sorted by Steet Name, House #

Premise	Name	Account Class	Premise House Number	Premise Street	Premise City	Premise State	Premise Postal Code	Sept 2016 thru Dec 2016	Total 2017	Total 2018
5000120109	LFUCG	Commercial	215	W Main St	Lexington	KY	40507-1305	-	-	3,380.00
9120136562	LFUCG	OPA	208	W Main St	Lexington	KY	40507-1354	3,486.86	6,816.35	2,467.17
9120028208	LFUCG	OPA	300	W Reynolds Rd	Lexington	KY	40503-3579	384.85	908.08	884.57
9120136553	LFUCG	OPA	240	W Vine St	Lexington	KY	40507-1612	8,608.90	7,219.19	4,015.69
9120132778	LFUCG	OPA	565	Wellington Way	Lexington	KY	40503-2798	111.44	280.62	442.58
9120099277	LFUCG	OPA	651	West High St	Lexington	KY	40508-2467	54.33	180.78	323.33
9120028220	LFUCG	OPA	360	Wilson Downing Rd	Lexington	KY	40517-1429	2,465.40	4,407.21	3,571.94
9120028221	LFUCG	OPA	360	Wilson Downing Rd	Lexington	KY	40517-1429	2,606.79	4,620.68	3,404.01
5000020389	LFUCG	OPA	2589	Winchester Rd	Lexington	KY	40509-9574	442.07	1,329.14	1,321.52
9120039936	LFUCG	OPA	300	Woodland Ave	Lexington	KY	40508-3024	240.45	731.81	715.59
9120004485	LFUCG	OPA	1835	Yorktown Rd	Lexington	KY	40504-2233	57.85	239.30	180.35

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 3.** Does KAWC believe that the filing and/or proposed rate increases will in any way change the types of services for which it pays franchise fees to Lexington? If so, please explain.

Response:

No.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

4. Does the franchise fee assessed by Lexington currently apply to public fire hydrants?

Response:

Yes, the franchise fee currently applies to public fire hydrants.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

5. Will the franchise assessed by Lexington fee apply to the proposed Qualified Infrastructure Program (QIP)?

Response:

KAWC believes that the franchise fee will apply to all revenues received under the proposed Qualified Infrastructure Program (QIP).

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

6. Please list all of the tariffs applicable to the use or consumption of water in Fayette County for which KAWC does not currently pay Lexington a franchise fee.

Response:

The current Franchise Agreement (Resolution No. 21-2016) provides in Section 19 (a) that the company pay a franchise fee of 3% of the “gross revenues” as defined in Section 19 (b), with an exception for nonrecurring charges. Section 19 (b) states that, "Gross Revenues," for purposes of this Ordinance, shall include all revenues received from customers in Fayette County from the sale of water, service charges based upon the size of facilities, municipal fire connections and hydrants, private fire connections and hydrants, temporary service connections for construction purposes, reconnection charges, returned check charges, service line inspection fees, and bulk sales to customers in Fayette County.”

The Company has an Application Fee and Late Payment Fee in its tariffs that are not subject to the Franchise Fee. These are nonrecurring fees not expressly mentioned in the definition of “gross revenues” above.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

7. Is KAWC amenable to modifying the existing franchise fee tariff for public fire hydrants?

Response:

KAWC is amenable to any discussions that the LFUCG would like to have concerning franchise fees and public fire hydrants.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

8. Does KAWC or any other American Water Company subsidiary have a tariff, contract or other arrangement under which the costs related to public fire hydrants are passed through to one or more of the other customer classes? If so, please list the name of the jurisdiction and provide the details of the arrangement, including any relevant supporting documents.

Response:

Illinois – See attachment for public fire protection service charges for one area of the state that is demonstrative of the state.

Indiana – Public fire protection is paid by the respective municipalities via a hydrant charge that is billed per hydrant located within the municipality. Indiana Code subsection 8-1-2-103(d) provides for the payment of fire hydrant rental costs imposed by a utility (such as Indiana American Water Company) and approved by the Indiana Utility Regulatory Commission (“IURC”) from the ratepayers of Indiana American Water rather than the municipality via a fire protection surcharge. A fire protection surcharge can be set in place once the municipality approves an ordinance ordering that the municipal hydrant charge be passed on to the ratepayers via a fire protection surcharge. Upon approval of the ordinance, the utility determines a fire protection surcharge equal to the elimination of the respective hydrant charge divided by the number of 5/8 inch meter equivalents served within the municipal boundaries, and files a Petition with the IURC for approval of the new fire protection surcharge. Upon completion of the next general rate case, the fire protection surcharge for the municipality is rolled into the single tariff fire protection surcharge rate for all applicable customers. See attachment for Tariff No. W-20-A, Fourth Revised Page 6 of 9, which is the current Public Fire Hydrant and Public Fire Protection Surcharge tariff that is in effect as approved by the IURC for Indiana American Water Company.

Kentucky -- Customers in Georgetown have a hydrant surcharge added to their bill that is provided to the City of Georgetown, which they utilize to pay their public fire hydrant charges.

Missouri – Public fire protection is included in base rates of other customer classes.

Tennessee - Public fire protection is included in base rates of other customer classes.

Iowa – Public fire protection is included in base rates of other customer classes.

California – Public fire protection is included in base rates of other customer classes..

West Virginia – Public fire protection is included in base rates of other customer classes..

Virginia – Public fire protection is included in base rates of other customer classes..

Pennsylvania – 75% of the public fire cost of service is included in base rates of the other customer classes the remaining 25% of the cost of service is billed directly to the governmental entity where the public fire hydrants are located.

West Virginia – 76% of the public fire cost of service is included in base rates of the other customer classes. The remaining 24% of the cost of service is billed directly to the governmental entity where the public fire hydrants are located.

ILLINOIS-AMERICAN WATER COMPANY
Central Division
Water Service

ILL.C.C. No. 24
Section No. 1
Ninth Revised Sheet No. 3
Canceling Eighth Revised Sheet No. 3

SCHEDULE OF RATES AND CHARGES

CLASSIFICATION OF SERVICE PUBLIC FIRE SERVICE FOR METERED GENERAL WATER SERVICE

Section 9-223 of "The Public Utilities Act", as amended, authorizes a water utility to recover a charge for fire protection services from municipalities and fire protection districts only when provided for in a separate agreement between the municipality or the fire protection district and the utility. Public Fire Service Charges for the indicated municipalities and fire protection districts within the indicated District of the Company are listed below:

Available For

Public Fire Service in the areas indicated, except where service is provided under the Standard Private Fire Service Agreement included in the Company's Rules and Regulations.

Monthly Charges

All Metered General Water Service Customers located in a municipality or fire protection district in which public fire hydrants are connected to the Company's water mains shall pay a monthly Public Fire Service Charge in the amount as set forth below, such charge being in addition to the rates and charges set forth elsewhere in the tariffs for Metered General Water Service. Metered Irrigation Customers shall not be subject to a public fire charge on the irrigation meter if the premise is also being provided water service as a Metered General Water Service Customer.

<u>Location</u>	<u>Public Paid Service</u>	<u>Customer Paid Service Charge</u>			
	<u>Charge for each public fire hydrant</u>	<u>5/8" Meter</u>	<u>3/4" Meter</u>	<u>1" Meter</u>	<u>1-1/2" & Larger Meter</u>
All areas except as listed below		\$ 4.29	\$ 6.44	\$ 10.73	\$ 21.45
Village of Bartonville	\$4.29 per month	3.41	5.12	8.53	17.05
Village of Sauget	\$39.04 per month	0.66	0.99	1.65	3.30
Cahokia-Maplewood Fire District	\$105.84 per year	4.06	6.09	10.15	20.30
Village of Alorton	\$105.84 per year	3.59	5.39	8.98	17.95
Canteen Township Fire District	\$105.84 per year	3.81	5.72	9.53	19.05
City of Madison	\$8.82 per month	3.57	5.36	8.93	17.85
City of Belleville	\$8.82 per month	3.75	5.63	9.38	18.75
Millstadt Rural Fire District	\$8.82 per month or \$105.84 per year	3.76	5.64	9.40	18.80
Smithton Fire District	\$5.18 per month or \$62.16 per year	3.43	5.15	8.58	17.15
Edge-Scott Fire Protection District	\$23.76 per year	3.95	5.93	9.88	19.75
Village of Savoy	\$70.20 per year	3.72	5.58	9.30	18.60
Village of Tolono	\$498.96 per year	0.00	0.00	0.00	0.00
Midwest Palos		0.00	0.00	0.00	0.00
Ridgecrest		0.00	0.00	0.00	0.00
Hardin County		0.00	0.00	0.00	0.00

Issued: November 26, 2018

Effective: January 10, 2019

Issued by: Bruce Hauk, President
100 North Water Works Drive
Belleville, Illinois 62223

I.U.R.C. No. W-20-A
 Cancelling All Previously Approved Tariffs
 (W-19-A)
 Fourth Revised Page 6 of 9

CLASSIFICATION OF SERVICE
FIRE SERVICE

PUBLIC FIRE HYDRANTS

Each municipality or governmental entity responsible for public fire service in the areas listed below shall pay for each public fire hydrant within its boundaries.

Monthly surcharge per hydrant: \$63.12

Where applicable: Clarksville, Seymour, and Summitville.

PUBLIC FIRE PROTECTION SURCHARGE

Applicability

Applies to all customers, with the exception of Sale for Resale customers, not located within the boundaries of the governmental entities responsible for public fire service in the areas listed in Public Fire Hydrants. Applicable to any water customer, with the exception of Sale for Resale customers, located in areas within municipal boundaries or to any water customer within 1,000 feet of a public fire hydrant (measured from the hydrant to the nearest point on the property line of the customer) on the Company's distribution mains in areas not within municipal boundaries. In addition to the charges for water service under currently approved tariffs, a public fire protection surcharge shall be charged to, and collected from, each customer to whom said surcharge is hereby made applicable. If multiple meters are installed the surcharge(s) shall be based upon the total of all meters installed.

Size of Meter	Monthly Charge- Area One and Two	West Lafayette Only	Seymour Only
5/8"	\$ 4.54	\$ 3.18	\$ 3.98
3/4"	6.81	4.76	5.97
1"	11.33	7.94	9.95
1-1/2"	22.69	15.87	19.89
2"	36.29	25.40	31.82
3"	68.04	47.62	59.66
4"	113.40	79.37	99.43
6"	226.81	158.73	198.86
8"	362.89	253.98	318.17
10"	589.69	412.73	517.02
12"	975.27	682.58	855.08

Note: Unless specified rates are for all areas.

Issued:

Effective: _____

**Issued Pursuant to
Cause No. 45032 S4
July 31, 2018**

Indiana Utility Regulatory Commission
Water/Wastewater Division

Issued by: Deborah D. Dewey, President
153 North Emerson Avenue
Greenwood, Indiana 46143

EFFECTIVE

August 1, 2018

Indiana Utility Regulatory
Commission

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 9.** Do any American Water Company subsidiaries currently have a contract under which they provide sewer billing services on behalf of a local government? If so, please provide the name of the subsidiary and local government and provide a copy of each contract.

Response:

Illinois-American Water Company provides sewer billing services to the City of Bolingbrook. Please see the attached.

SEWER BILLING AGREEMENT

THIS AGREEMENT is made and entered into this 25th day of July, 2002, by and between ILLINOIS-AMERICAN WATER COMPANY, a corporation organized under the laws of the State of Illinois, hereinafter referred to as the WATER COMPANY, and the VILLAGE OF BOLINGBROOK, ILLINOIS, a municipal corporation of the State of Illinois, hereinafter referred to as the VILLAGE.

WITNESSETH:

WHEREAS, the WATER COMPANY is engaged in the business of providing potable water service to the general public in, inter alia, Bolingbrook, Illinois and areas adjacent thereto; and

WHEREAS, the WATER COMPANY also provides sewer collection services in a portion of the VILLAGE and the VILLAGE provides sewer collection services in the remainder of the VILLAGE and sewer treatment services for the entire VILLAGE and each entity bills its customers for the services it provides; and

WHEREAS, the VILLAGE has requested the WATER COMPANY to perform billing and accounting for customers of the VILLAGE receiving sewer service (both collecting and treating) and the WATER COMPANY has agreed to provide said services to the VILLAGE, all pursuant to the terms and conditions contained herein;

NOW, THEREFORE, for and in consideration of the covenants contained herein, the parties hereby agree as follows:

1. (A) The VILLAGE and the WATER COMPANY shall, jointly, designate and cause to be identified on the WATER COMPANY's computer records, each customer of the WATER COMPANY who is also a sewer treatment customer, a sewer collection customer, or both a sewer collection and treatment customer of the VILLAGE (the "joint accounts"). The WATER COMPANY shall bill all joint accounts for sewer service charges on behalf of the VILLAGE, at the rates provided to it by the VILLAGE pursuant to Section 3.
- (B) Upon receipt of a written request from the VILLAGE, the WATER COMPANY shall also bill the VILLAGE's sewer service customers who are not also WATER COMPANY customers (the "sewer only customers"), if any; provided that the VILLAGE shall furnish to the WATER COMPANY such sewer service information for such customers as may be required by the WATER COMPANY for it to bill such customers for sewer service; and provided, further, that should such sewer only customers:

- (i) receive water from unmetered wells, such customers shall be billed at a flat rate for sewer service from the VILLAGE, as provided to the WATER COMPANY pursuant to Section 3 (the "flat rate");
 - (ii) receive water from a metered water system other than the WATER COMPANY's system, such customers shall be billed by the flat rate, unless the VILLAGE furnishes water meter readings for such a customer to the WATER COMPANY and requests that such customer be billed at the metered rate provided pursuant to Section 3; or
 - (iii) not receive water service from any source (e.g., a landlord whose tenants are directly responsible for their water service), the VILLAGE may request WATER COMPANY to bill such sewer only customer based upon a flat rate to be provided to the WATER COMPANY pursuant to Section 3 or, if the WATER COMPANY provides water service to its customer(s) at the same premises to which such sewer service is rendered, based upon the water use at such premises; provided the WATER COMPANY reserves the right to charge an additional fee, as may be hereafter agreed by the parties from time to time, for the service of determining the total water usage at such premises, in order to calculate such bill.
2. The WATER COMPANY shall be responsible for the sewer customer billing and accounting service for only those users of the sewer system of the VILLAGE identified pursuant to Section 1 above, and only during the term of this Agreement.
3. The VILLAGE shall, prior to the commencement of billing services by the WATER COMPANY pursuant hereto, furnish the WATER COMPANY with the rate or rates to be charged for each sewer collection; sewer treatment; and combination sewer services, including both the flat and metered rates and charges to be applied to delinquent accounts, if any. The VILLAGE may, from time to time, but no more frequently than once per year, notify the WATER COMPANY of any revisions of such rates; provided that such revisions shall not be effective until the billing cycle following the end of the month in which notice has been given.
4. The sewer customers to be billed by the WATER COMPANY pursuant hereto shall be billed on a cycle which is the same as the WATER COMPANY uses for the billing of its customers and on the same bill.

5. (A) The WATER COMPANY shall administer the accounts of the VILLAGE and prepare the bills for all customers of the VILLAGE receiving sewer service subject hereto in accordance with the regular and periodic billing procedure followed by the WATER COMPANY in the billing of its customers receiving water service. The WATER COMPANY agrees to observe the same diligence, policies, and procedures in the billing and accounting of the VILLAGE's sewer accounts subject hereto as it uses in administering and billing its water service accounts.
- (B) The VILLAGE is authorized to act as a customer bill payment collection center during the term of this Agreement. The WATER COMPANY will provide the VILLAGE access to the following WATER COMPANY customer billing records, via internet or e-mail, in conjunction with the bill payment collection services provided by the Village:
- Customer Name(s)
Service Address
Account Number
Current amount due for Water Service
Current amount due for Sewer Service
6. Water bill adjustments, which are granted as a result of over or under estimated water usage, over or under registration of water meters, underground leaks, faulty or inoperative meters, incorrect meter reading, or other recognized and proper adjustments which are granted to water customers by the WATER COMPANY to water customers which are joint accounts shall be accepted by the VILLAGE and be recognized in determining the billing for sewer charges, excluding, however, any flat rate sewer service charge customer. Any resultant adjustment to the sewer charge will be billed at the same time as is the water charge adjustment.
7. The WATER COMPANY will (i) calculate, as set forth above, the applicable sewer charges for each of the VILLAGE's sewer customers identified pursuant to Section 1; (ii) print the sewer bill therefor on the joint accounts' water bills; and (iii) deposit such bill in the United States mail, with a return envelope pre-addressed to the WATER COMPANY.
8. All of the VILLAGE's sewer charges paid by its customers will be collected and receipted by the WATER COMPANY and the WATER COMPANY shall transmit to the VILLAGE, by electronic funds transfer, twice per month, on the 3rd and 18th day of each month (unless such day falls on a Saturday, Sunday, or legal holiday, in which case such transmittal shall be made on the immediately preceding business day), such collections made on behalf of the VILLAGE during

the immediately preceding semi-monthly period (being the 16th through the last day of the immediately succeeding month and the 1st through the 15th day of such month, respectively), net of chargebacks during such period, less all amounts owed to the WATER COMPANY by the VILLAGE for its services pursuant to Section 11 hereof or the provision of water to the VILLAGE.

9. The WATER COMPANY shall maintain customer accounts receivable data for the VILLAGE's sewer customers, including monthly open balance reports, daily transaction reports, daily updating reports, monthly customer record reports, and monthly revenue summary reports, which shall be delivered to the VILLAGE monthly, by the fifteenth (15th) of the month following the month to which such reports relate.
10. (A) The WATER COMPANY shall prepare and mail a second notice on all delinquent accounts.

(B) The WATER COMPANY shall not, however, pursue legal proceedings to force the payment of delinquent accounts.
11. (A) In consideration of the services to be provided to the VILLAGE by the WATER COMPANY pursuant hereto, in addition to all fees payable pursuant to Section 11(D), the VILLAGE shall pay the WATER COMPANY, monthly, a sum equal to the result of multiplying thirty cents (\$0.30) by the number of sewer bills prepared by the WATER COMPANY and delivered to the VILLAGE's sewer customers during the immediately preceding month (the "2002 Bolingbrook Billing Expense"). The "2002 Bolingbrook Expense" shall be increased (or decreased) from time to time consistent with the increase (or decrease) in billing expenses, attributable to the preparation of Bolingbrook bills, experienced by the WATER COMPANY as reflected in rate cases filed before the Illinois Commerce Commission. The effective date of such rate increase shall be the same date as the effective date of the increase in general rates approved by the Illinois Commerce Commission. Such amount shall be withheld from the collections to be paid to the VILLAGE pursuant to Section 8.

(B) The WATER COMPANY shall render a statement to the VILLAGE by the tenth (10th) of each month setting forth the number of sewer bills prepared by the WATER COMPANY during the preceding month, the dollar amount owed therefor pursuant to subsection (A), the amount thereof which has been offset from collections which have been conveyed to the VILLAGE pursuant to such section, and a statement of any past due amount owed by the VILLAGE to the WATER COMPANY. The VILLAGE shall pay each statement so rendered on which there is an outstanding balance within thirty (30) days after the date of such statement.

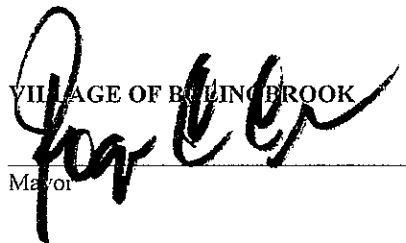
- (C) Should the term of this Agreement be extended, for each sewer bill which is sent out by the WATER COMPANY, the charge per bill set forth above in subsection 11(A) shall remain in effect unless changed by the WATER COMPANY by giving ninety (90) days' advanced written notice to the VILLAGE prior to the end of the annual contract. At the end of such ninety (90) day period, such new charge shall automatically take effect.
- (D) The WATER COMPANY will absorb the initial costs to establish the WATER COMPANY's books, records, and billing equipment to accommodate the VILLAGE's sewer billing, for those customers identified in Section 1(A), whether such customers are joint customers as of the date hereof or become so in the future. This initial cost is estimated to be \$7,500.00. There may be additional costs associated with those customers identified in Section 1(B), which shall, notwithstanding the preceding, be reimbursed, in full, by the VILLAGE. There shall be no additional charge for Section 1(A) customers added in the future. In the event the VILLAGE subsequently changes its method or rates for sewer billing, it shall pay the WATER COMPANY's expenses to accommodate any such change.
12. The term of this Agreement shall commence with the termination of the Billing and Collection Agreement being executed by the parties contemporaneously herewith and shall continue until December 31, 2042. The Agreement shall automatically renew from year-to-year thereafter, unless one party gives ninety (90) days' advanced written notice to the other party of its intent not to so renew the Agreement. Notwithstanding the above, this Agreement may be terminated for cause, at any time, upon sixty (60) days' advanced written notice to the other party.
13. This Agreement shall be construed to be applicable to only the parties hereto and shall not confer any rights, privileges, or obligations on any third party, including customers of the WATER COMPANY and/or the VILLAGE.
14. It is mutually understood that there may be sewer customers of the VILLAGE who discharge waste into the sewage system of the VILLAGE but who obtain water from a source other than the WATER COMPANY. It is agreed that the VILLAGE may, in its sole discretion, elect to prepare sewer bills for such customers separate and apart from the bills prepared by the WATER COMPANY under this Agreement. The VILLAGE shall not, however, use any other preparation service, nor prepare its own bills, for any joint account, unless mutually agreed by the parties hereto.
15. The VILLAGE shall indemnify and save the WATER COMPANY harmless from and against any and all costs and expenses (including attorney's fees and court

costs) incurred as a result of the WATER COMPANY's reasonable performance hereunder. In no event, however, shall the VILLAGE be required to indemnify the WATER COMPANY for the WATER COMPANY's own intentional acts or acts of negligence.

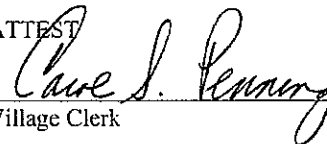
16. Payments received by the WATER COMPANY on a joint account will be applied to the WATER COMPANY customer account and the VILLAGE sewer customer account on a pro rata basis, such basis to be calculated based on the outstanding balance owed to each the WATER COMPANY and the VILLAGE, unless the customer has designated the party to whom the payment shall be paid, in accordance with the rules and regulations of the Illinois Commerce Commission. If the WATER COMPANY receives an overpayment, such overpayment shall, in accordance with the regulations of the Illinois Commerce Commission, be refunded to the customer or applied to the customer's account with the WATER COMPANY and the Village on a prorated basis.
17. This Agreement may not be assigned by a party without the express written consent of the other party.
18. This Agreement may not be amended, modified, or revised except by a written instrument executed by both parties.
19. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.
20. This Agreement has been entered into and shall be construed in accordance with the laws of the State of Illinois.

IN WITNESS WHEREOF, the parties hereto have caused their duly authorized agents to execute this Agreement to be effective as of the day and year first above written.

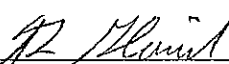
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SIGNATURES FOLLOW**

VILLAGE OF BURLINGBROOK



Mayor

ATTEST


Village Clerk

ILLINOIS-AMERICAN
WATER COMPANY


President

ATTEST


Secretary

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 10.** Please describe in detail any ongoing efforts of KAWC to expand its sale or provision of water.

Response:

There have been no recent formal conversations with Central Kentucky water providers that would expand the sale or provision of water to them or to any neighboring utilities. However, through its normal business development efforts, KAWC has engaged in conversations with various water providers such as the Eastern Rockcastle Water Association and the City of North Middletown about system acquisitions.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 11.** Please describe in detail any ongoing efforts of KAWC to expand its involvement with the Partnership for Safe Water or any other treatment programs established by the Environmental Protection Agency.

Response:

Kentucky American Water has participated in the Partnership for Safe Water as a Phase III Director's Award winner for the past 20 years at our Kentucky River Station and Richmond Road Station plants. We completed the Phase III Director's Award application for our Kentucky River Station II water plant and in 2018 we were a first year Phase III Director's Award winner.

In 2017, Kentucky American Water's Richmond Road Station and Kentucky River Station II water treatment plants were recognized by Kentucky's Energy and Environment Cabinet for their U.S. Environmental Protection Agency's Area-Wide Optimization Program (AWOP) achievement. Similar to the Partnership for Safe Water, this voluntary program challenges treatment plants to reduce turbidity levels below those required by state and federal regulations and is designed as a mechanism to enhance public health protection of drinking water.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 12.** Please describe in detail any and all lead testing services offered by KAWC to residential customers in Fayette County.

Response:

Kentucky American Water performs testing at homes of customers every three years in accordance with EPA regulatory requirements on a sampling plan approved by the Kentucky Division of Water. Sample bottles are provided to customers with instructions for collecting first draw samples (i.e., water that has been in the lines for a minimum of 6 hours). Kentucky American Water picks up the samples and provides the sample results to the customers as soon as they are available.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin Rogers

- 13.** Please provide all information relating to prospective sales of water to communities or facilities outside Fayette County, and more specifically, whether such efforts are being increased due to additional water availability. If not, please explain. Please also explain any marketing or other efforts in detail and provide copies of any business or marketing plans.

Response:

KAWC has maintained relationships with other water utilities in Central Kentucky for decades. As part of our normal business development efforts, we discuss the opportunities for additional water sales to other utilities. During the course of those conversations, we are frequently approached to find answers to challenging infrastructure efforts in Kentucky. We have a signed asset purchase agreement with North Middletown which is part of this case. North Middletown already purchased the majority of their water from KAWC through a purchased water agreement and the integration of their distribution system into KAWC's system has no impact on the capacity available to KAWC customers. No other specific prospective sales of additional water to communities or facilities outside Fayette County currently exist. Efforts are not being increased due to additional water availability.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kurt Kogler, Kevin Rogers

14. How many KAWC employees are located in Lexington, Kentucky? Please provide a description of the number and types of position for each. If KAWC anticipates any change within the next five (5) years, please provide the specific details.

Response:

- There are 131 positions based in Lexington, KY.
- The description and number of positions is as follows:

Position Description	Number of Positions
Admin Asst - Staff Supp (N)	2
Backhoe Operator F3200	2
Capital Program Coordinator	1
Clerk Opns (N)	3
Crew Leader F3200 & U335P	8
Construction Inspector	1
Dir Govt Affairs (State)	1
Engineering Project Manager	2
Engineering Specialist	3
Engineering Technician	4
Exec Asst (N)	1
Field Service Rep F3200	15
Intern Admin	1
Jr Backhoe/Crew Leader F3200	1
Maintenance Technician I F3200	2
Maintenance Technician II F3200	2
Maintenance Trainee	1
Manager WQ & Env Compliance	1
Meter Reader F3200	5
Meter Technician F3200	1
Mgr Business Performance	1
Mgr Ext Affairs (State)	1
Mgr Health and Safety Programs	1
Mgr Opns	1

Operations Generalist	1
Operations Specialist	8
Spec Ext Affairs	1
Spec Wtr Qlty & Env Compl II	3
Specialist Service Delivery	4
Sr Automation & Controls Tech	1
Sr Mgr Operations	1
Sr Project Engineer	1
Sr Supt Opns	2
Sr Supvr Operations	2
Supvr Cross Connection	1
Supvr Opns	2
Supvr Production	2
TREATMENT PLANT OPERATOR 3S F3200	2
Treatment Plant Operator Trainee II	1
Treatment Plant Operator Util 2S F3200	1
Treatment Plt Opr 2 F3200	1
Treatment Plt Opr F3200 U511	9
Treatment Plt Opr Relief F3200	1
Treatment Plt Opr Utility F3200	1
Utility F3200	23
VP Operations (Large 2)	1
Wastewater Operator	1
Total	131

The Company does not project employment changes for a future 5-year period. However, please see Mr. Rogers' direct testimony at pp. 18-23 for a discussion of Company-wide staffing levels projected in this case.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill, Melissa L. Schwarzell

- 15.** How many public fire hydrants are currently in use? How many of these hydrants are billed to Lexington?

Response:

As of Dec 31, 2018, there are a total of 7,502 public fire hydrants currently in use and 6,914 are billed to Lexington.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill, Melissa L. Schwarzell

- 16.** How many public fire hydrants are projected to be in use during the forecasted test period? How many of these hydrants are projected to be billed to Lexington?
- (a) Please provide a list of all of the ratepayers (other than Lexington) who pay for any public fire hydrants.
 - (b) What percentage of gross revenue does KAWC derive from public and private fire protection charges/rates, or similar charges/rates?

Response:

- (a) There are total 7,542 public fire hydrants projected to be in use during the forecasted test period. Among the projected total, 7,502 are from the existing public fire hydrant counts, 40 public fire hydrants projected for the North Middletown acquisition.

Of the total 7,542 public fire hydrants projected, 6,914 are to be billed to LFUCG. Please refer to the attachment.
- (b) Based on Exhibit 37, Schedule M-2, at revenues at present rates, KAWC would derive 7.1% of gross revenue (counting miscellaneous revenue but not AFUDC) from public and private fire protection charges.

Company Code	District	Premise	Rate Category	Quantity	Contract Acct Name	Premise House Number	Premise Street	Premise City	Premise State	Premise Zip Code
1012	D602010	9120027673	KYCTLF8MHY	144	City of Georgetown	100	Court St	Georgetown	KY	40324-1702
1012	D602010	9120027675	KYCTLF8MHY	133	Scott County Fiscal Court		Hydrants	Georgetown	KY	40324
1012	D602010	9120029770	KYCTLF8MHY	58	University of Kentucky		Newtown Rd	Lexington	KY	40511
1012	D602010	9120030005	KYCTLF8MHY	40	University of Kentucky		Comptroller Off	Lexington	KY	40506-0001
1012	D602010	9120027677	KYCTLF8MHY	35	Scott County Fiscal Court		Mallard Pt	Georgetown	KY	40324
1012	D602010	9120030035	KYCTLF8MHY	30	Bourbon County Fiscal Court	301	Main St	Paris	KY	40361-2044
1012	D602010	9120030003	KYCTLF8MHY	23	Lafayette High School 15-UD	400	Lafayette Pky	Lexington	KY	40503-1218
1012	D602010	9120030150	KYCTLF8MHY	18	Blackburn Corr Complex	3111	Spurr Rd	Lexington	KY	40511-9068
1012	D602010	9120027669	KYCTLF8MHY	14	City of Sadieville		Hydrants	Sadieville	KY	40370
1012	D602010	9120030272	KYCTLF8MHY	14	Clark Co Fiscal Court		Combs Ferry Rd	Winchester	KY	40391
1012	D602010	9120027684	KYCTLF8MHY	13	Scott County Fiscal Court		Harbor Village	Georgetown	KY	40324
1012	D602010	9120030056	KYCTLF8MHY	12	Kentucky Horse Park	4089	Iron Works Rd	Lexington	KY	40511-8483
1012	D602010	9120030120	KYCTLF8MHY	9	LFUCAB_Blue Grass Airport		Airport Rd	Lexington	KY	40510
1012	D602010	9120030168	KYCTLF8MHY	6	Kentucky Horse Park	4089	Iron Works Pike	Lexington	KY	40511-8483
1012	D602010	9120030036	KYCTLF8MHY	4	Glenn Dorroh Health	650	Newtown Pike	Lexington	KY	40508-1113
1012	D602010	9120030092	KYCTLF8MHY	4	US Postal Service		Nandino Blvd	Lexington	KY	40505
1012	D602010	9120030107	KYCTLF8MHY	4	Woodford County Fiscal Court	103	S. main St	Versailles	KY	40383-1249
1012	D602010	9120030070	KYCTLF8MHY	3	UK Housing Auxiliary Services		Univ&Shawneetwn	Lexington	KY	40503
1012	D602010	9120030071	KYCTLF8MHY	3	Lexington Housing Authority	300	New Circle Rd	Lexington	KY	40505-1428
1012	D602010	9120030037	KYCTLF8MHY	2	University of Kentucky		Tobacco Researh	Lexington	KY	40506-0001
1012	D602010	9120030086	KYCTLF8MHY	2	Dept Facilities Support Servic	2010	World Games Way	Lexington	KY	40511-2010
1012	D602010	9120030197	KYCTLF8MHY	2	Cassidy Elementary 41-UD	400	Spring Hill Dr	Lexington	KY	40503-1234
1012	D602010	9120127765	KYCTLF8MHY	2	City of Georgetown		St A	Georgetown	KY	40503
1012	D602010	5000100062	KYCTLF8MHY	1	One Venue, LLC	2450	Nicholasville Rd	Lexington	KY	40503-3107
1012	D602010	5000104201	KYCTLF8MHY	1	University of Kentucky	680	Rose ST	Lexington	KY	40508
1012	D602010	9120027670	KYCTLF8MHY	1	Scott Co Bd Of Ed		Hydrants	Georgetown	KY	40324
1012	D602010	9120027687	KYCTLF8MHY	1	Scott County Fiscal Court		Lisle Rd	Georgetown	KY	40324
1012	D602010	9120030062	KYCTLF8MHY	1	University of Kentucky	2275	Turner Pl	Lexington	KY	40511-9179
1012	D602010	9120030076	KYCTLF8MHY	1	Lexington Housing Authority	300	New Circle Rd	Lexington	KY	40505-1428
1012	D602010	9120030127	KYCTLF8MHY	1	Lexington Housing Authority	300	New Circle Rd	Lexington	KY	40505-1428
1012	D602010	9120030133	KYCTLF8MHY	1	University of Kentucky		Nicholasville Rd	Lexington	KY	40507
1012	D602010	9120030159	KYCTLF8MHY	1	University of Kentucky		Medical Ctr Dr	Lexington	KY	40506-0001
1012	D602010	9120030163	KYCTLF8MHY	1	University of Kentucky		University Dr	Lexington	KY	40506-0001
1012	D602010	9120030190	KYCTLF8MHY	1	Council of State Government	400	Iron Works Rd	Lexington	KY	40511-9145
1012	D602010	9120127079	KYCTLF8MHY	1	Scott County Fiscal Court		N Mt Gilead Churc Rd	Sadieville	KY	40370-9581
1012	D602010	9120133726	KYCTLF8MHY	1	Fasigtpton	2400	Newtown Pi	Lexington	KY	40511-8469
Total Current Public Fire Hydrant ex LFUCG				588						

Company Code	District	Premise	Rate Category	Quantity	Contract Acct Name	Premise House Number	Premise Street	Premise City	Premise State	Premise Zip Code
1012	D602010	9120029769	KYCTLF8MHY	6901	LFUCG	200	E Main St	Lexington	KY	40507-1354
1012	D602010	9120027673	KYCTLF8MHY	144	City of Georgetown	100	Court St	Georgetown	KY	40324-1702
1012	D602010	9120027675	KYCTLF8MHY	133	Scott County Fiscal Court		Hydrants	Georgetown	KY	40324
1012	D602010	9120029770	KYCTLF8MHY	58	University of Kentucky		Newtown Rd	Lexington	KY	40511
1012	D602010	9120030005	KYCTLF8MHY	40	University of Kentucky		Comptroller Off	Lexington	KY	40506-0001
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1012	D602010	9120030140	KYCTLF8MHY	9	LFUCG	200	E Main St	Lexington	KY	40507-1310
1012	D602010	9120030168	KYCTLF8MHY	6	Kentucky Horse Park	4089	Iron Works Pike	Lexington	KY	40511-8483
1012	D602010	9120030036	KYCTLF8MHY	4	Glenn Dorroh Health	650	Newtown Pike	Lexington	KY	40508-1113
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1012	D602010	9120030107	KYCTLF8MHY	4	Woodford County Fiscal Court	103	S. main St	Versailles	KY	40383-1249
1012	D602010	9120030245	KYCTLF8MHY	4	LFUCG Detention Center	2055	Old Frankfort Pike	Lexington	KY	40510-9601
1012	D602010	9120030070	KYCTLF8MHY	3	UK Housing Auxiliary Services		Univ&Shawneetwn	Lexington	KY	40503
1012	D602010	9120030071	KYCTLF8MHY	3	Lexington Housing Authority	300	New Circle Rd	Lexington	KY	40505-1428
1012	D602010	9120030037	KYCTLF8MHY	2	University of Kentucky		Tobacco Researh	Lexington	KY	40506-0001
1012	D602010	9120030086	KYCTLF8MHY	2	Dept Facilities Support Serv	2010	World Games Way	Lexington	KY	40511-2010
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1012	D602010	9120127079	KYCTLF8MHY	1	Scott County Fiscal Court		N Mt Gilead Churc Rd	Sadieville	KY	40370-9581
1012	D602010	9120133726	KYCTLF8MHY	1	Fasigtipton	2400	Newtown Pi	Lexington	KY	40511-8469
Total Public Fire Hydrants - LFUCG				6,914						
Total Public Fire Hydrants - Other				588						
Total Public Fire Hydrants - North Middletown Acquisition				40						
Total Public Fire Hydrants - Test Year				7,542						

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa Schwarzell

17. Is the Public Fire Service Revenue component of the cost of service study comprised of anything other than the total number of public fire hydrants and the tariff (KAWC Exhibit 36, Schedule A; KAWC Exhibit 37, Schedule M-3)?
- (a) What is the total number of public fire hydrants in the base period?
 - (b) What is the total number of public fire hydrants in the forecasted test year?
 - (c) It appears that the number of public fire hydrants in the test year is less than the number of public fire hydrants in the base period (Exhibit 37, Schedule M-3). What is the basis for this? If this is an error, please provide a revised cost of service study and/or schedules.

Response:

No. it is not.

- (a) Total number of public fire hydrants in the base period is 7,502.
- (b) Total number of public fire hydrants in the test period is 7,542, which includes the same number of public fire hydrants as what is included in the base year 7,502 and the 40 expected from the proposed North Middletown acquisition.
- (c) When excluding North Middletown and Eastern Rockcastle (Exhibit 37, Schedule M-3 page 21 of 38), in the base year, the schedule shows total public fire connections 90,026 (or 7,502.16 per month), the total public fire connections for the test year is 90,024 (or 7,502.00 per month). These numbers are based on number of bills issued.

This is not an error. The difference is due to a service location with 2 public fire connections having a customer change in the May/June 2018 time frame. Final bills and initial bills were issued. This is the reason for 7,504 total public connections in June per bill analysis instead of 7,502. In July and August 2018, the number of public fire connections are 7,502 as they were seen since the beginning of 2018. Total projected public fire connections stay the same for test year at 7,502 per month.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent O'Neill

18. Please provide a breakdown of the total number of the following fire hydrants in Fayette County: (a) public fire hydrants, (b) fire hydrants that are owned and maintained by KAWC, but located on private property, and (c) hydrants for which KAWC is not the owner. If possible, please provide the location of each hydrant. If this information is not available, please explain what action, if any, KAWC is taking to track this information going forward in time.

Response:

- (a) KAW has record of 7,055 public hydrants in Fayette County on its maps. Please see the section labeled Public Hydrants Fayette County, KY within the attachment.
- (b) KAW has listed 793 private hydrants, some of which are billed to LFUCG. These are generally located on private property, but are connected to a KAW owned and maintained water line. Please see the section labeled Private Hydrants in Fayette County, KY within the attachment.
- (c) KAW has 558 hydrants listed as privately-owned in Fayette County. Please see the attached files for locations of each named as follows Privately Owned Fire Hydrants in Fayette County, KY within the attachment.

For each hydrant KAW owns or maintains (public hydrants and private hydrants), it is included electronically on KAW's CAD maps and the company's Graphical Information System (GIS) within a few months of being placed in service and a notice is sent to the company billing department by the inspector to begin billing the appropriate party as soon as it is placed in service. For privately-owned hydrants, KAW initiates billing once the connection is installed.

Public Hydrants (Fayette County, KY)

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1	H1	609	E MAIN ST	38.0376182318	-84.4873214689
HLX-2	H2	521	E MAIN ST	38.038578296	-84.4883841686
HLX-3	H3	508	E MAIN ST	38.039193011	-84.4887695576
HLX-4	H4	460	E MAIN ST	38.0401670382	-84.4901300525
HLX-5	H5	386	E MAIN ST	38.0414737634	-84.4915815306
HLX-6	H6	350	E MAIN ST	38.0420544478	-84.4923346997
HLX-8	H8	271	E MAIN ST	38.0433889702	-84.4934270861
HLX-9	H9	255	E MAIN ST	38.0436862286	-84.49398205
HLX-10	H10	224	E MAIN ST	38.0444210695	-84.4945804394
HLX-11	H11	171	E MAIN ST	38.0451896383	-84.4956682093
HLX-12	H12	202	E MAIN ST	38.0449321389	-84.4952621115
HLX-13	H13	120	E MAIN ST	38.0457258476	-84.4964756681
HLX-15	H15	105	N LIMESTONE	38.0465504625	-84.4968825699
HLX-16	H16	164	W MAIN ST	38.04721	-84.49797
HLX-17	H17	250	W MAIN ST	38.0477250415	-84.4986530334
HLX-18	H18	271	W MAIN ST	38.0479644098	-84.4989322334
HLX-19	H19	325	W MAIN ST	38.0483164036	-84.4989266468
HLX-20	H20	118	N BROADWAY	38.0490785096	-84.4998531377
HLX-21	H21	40	W MAIN ST	38.06342099	-84.51970875
HLX-23	H23	501	W MAIN ST	38.0499908291	-84.5007797751
HLX-24	H24	551	W MAIN ST	38.0505763128	-84.50188517
HLX-25	H25	578	W MAIN ST	38.0513486369	-84.502732655
HLX-26	H26	107	JEFFERSON ST	38.051977915	-84.5029423721
HLX-27	H27	628	W MAIN ST	38.0524760617	-84.5039703449
HLX-28	H28	701	W MAIN ST	38.0530537509	-84.5042120555
HLX-31	H31	111	EASTERN AVE	38.0419589208	-84.4909636639
HLX-32	H32	267	E SHORT ST	38.0440341567	-84.4926911287
HLX-33	H33	219	E SHORT ST	38.0448845772	-84.4939096691
HLX-34	H34	205	E SHORT ST	38.0455392217	-84.4944505484
HLX-36	H36	131	N LIMESTONE	38.0470523198	-84.4961724768
HLX-37	H37	154	W SHORT ST	38.0475501074	-84.497160408
HLX-38	H38	201	W SHORT ST	38.0477973625	-84.497129912

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-39	H39	221	W SHORT ST	38.0481005461	-84.4977216036
HLX-40	H40	218	E 7TH ST	38.0483621981	-84.4979887257
HLX-41	H41	301	W SHORT ST	38.0487277023	-84.4981668913
HLX-42	H42	130	N BROADWAY	38.049536608	-84.4992863906
HLX-43	H43	401	W SHORT ST	38.0496192822	-84.4991862563
HLX-44	H44	50	W SHORT ST	38.0502908096	-84.5002056717
HLX-45	H45	531	W SHORT ST	38.0509384869	-84.5008735502
HLX-46	H46	563	W SHORT ST	38.0516538727	-84.501459418
HLX-47	H47	592	W SHORT ST	38.0522	-84.50228
HLX-48	H48	703	W SHORT ST	38.0536912318	-84.5036371022
HLX-49	H49	165	BARR ST	38.0460246515	-84.4938671878
HLX-50	H50	1112	VERSAILLES RD	38.0467586072	-84.4946923048
HLX-51	H51	161	N LIMESTONE	38.0474927191	-84.4955764347
HLX-52	H52	154	N UPPER ST	38.0482141947	-84.4964952523
HLX-53	H53	153	MARKET ST	38.0487642259	-84.4970654049
HLX-54	H54	160	N MILL ST	38.0491405528	-84.4974416517
HLX-56	H56	171	GEORGETOWN ST	38.0547388353	-84.5031056724
HLX-57	H57	151	EASTERN AVE	38.0428719699	-84.4897478651
HLX-58	H58	311	CORRAL ST	38.0451832246	-84.4910037746
HLX-59	H59	177	N LIMESTONE	38.0479197306	-84.4949921687
HLX-60	H60	201	N LIMESTONE	38.0483249492	-84.4944187471
HLX-61	H61	20	N UPPER ST	38.0490543814	-84.4951895483
HLX-70	H70	589	W 2ND ST	38.0556806272	-84.5025880416
HLX-71	H71	406	E 2ND ST	38.0438159272	-84.4883437211
HLX-72	H72	270	E 2ND ST	38.0457575664	-84.4903595801
HLX-73	H73	248	E 2ND ST	38.0461349586	-84.4908810459
HLX-74	H74	164	CONSTITUTION ST	38.0473192891	-84.4919955937
HLX-75	H75	134	CONSTITUTION ST	38.0479893831	-84.4929852236
HLX-76	H76	223	N LIMESTONE	38.0487060244	-84.493939866
HLX-78	H78	201	MECHANIC ST	38.0497041012	-84.494363472
HLX-79	H79	242	MARKET ST	38.0502011718	-84.4948917559
HLX-80	H80	239	N MILL ST	38.0507280727	-84.4953261686
HLX-82	H82	575	MARYLAND AVE	38.0569087901	-84.5021438148
HLX-83	H83	433	E 3RD ST	38.0445680618	-84.4856727207

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 4 of 252
HLX-84	H84	375	E 3RD ST	38.0449464372	-84.4871283113
HLX-85	H85	311	CHESTNUT ST	38.0452810918	-84.487320999
HLX-86	H86	327	E 3RD ST	38.0457748477	-84.4883253182
HLX-87	H87	305	E 3RD ST	38.0462553401	-84.4889165974
HLX-88	H88	240	E 3RD ST	38.047164875	-84.4899520064
HLX-89	H89	211	E 3RD ST	38.0477310164	-84.4904390523
HLX-90	H90	138	E 3RD ST	38.0486711058	-84.491576067
HLX-91	H91	265	N LIMESTONE	38.0496357329	-84.4926132466
HLX-92	H92	134	W 3RD ST	38.0502693812	-84.4933288113
HLX-93	H93	262	MARKET ST	38.0509028599	-84.494053829
HLX-94	H94	301	W 3RD ST	38.0513277159	-84.4944954569
HLX-96	H96	1102	STILLWELL AVE	38.0347550544	-84.5163158577
HLX-97	H97	435	W 3RD ST	38.0532608111	-84.4967004212
HLX-98	H98	455	W 3RD ST	38.0541471177	-84.4976224287
HLX-99	H99	497	W 3RD ST	38.0549611901	-84.4985718509
HLX-101	H101	1112	WINCHESTER RD	38.0577893338	-84.5016136084
HLX-102	H102	339	CHESTNUT ST	38.0458718646	-84.4865482754
HLX-103	H103	337	N MARTIN LUTHER KING BLVD	38.0487690908	-84.4899219856
HLX-104	H104	367	N MARTIN LUTHER KING BLVD	38.0493855758	-84.4889919409
HLX-105	H105	125	E 4TH ST	38.0502954657	-84.4897012902
HLX-106	H106	341	N LIMESTONE	38.0503442442	-84.4915118006
HLX-108	H108	401	N LIMESTONE	38.0510714202	-84.4904816953
HLX-109	H109	2020	DORSET DR	38.0516872895	-84.491238472
HLX-111	H111	230	W MAIN ST	38.0473983706	-84.4983060026
HLX-112	H112	416	W 4TH ST	38.0542639238	-84.4942156551
HLX-113	H113	449	W 4TH ST	38.0551397331	-84.4951741126
HLX-114	H114	441	N LIMESTONE	38.0517994442	-84.4894107669
HLX-116	H116	473	N MARTIN LUTHER KING BLVD	38.0509714123	-84.4869255301
HLX-117	H117	501	N LIMESTONE	38.0524273518	-84.4886135499
HLX-118	H118	130	W 5TH ST	38.0530786086	-84.4892355443
HLX-119	H119	30	W 5TH ST	38.0539860985	-84.4902618219
HLX-121	H121	535	N LIMESTONE	38.0532336475	-84.4874875988
HLX-123	H123	573	N LIMESTONE	38.0538844684	-84.4865149731
HLX-124	H124	637	N LIMESTONE	38.0546562405	-84.4853916136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-126	H126	170	N MARTIN LUTHER KING BLVD	38.0466296496	-84.4930153397
HLX-127	H127	705	WINCHESTER RD	38.0412132512	-84.4784010463
HLX-128	H128	130	W VINE ST	38.0460673977	-84.4985054187
HLX-130	H130	991	COOPER DR	38.0456180555	-84.4982096861
HLX-132	H132	110	W VINE ST	38.046366747	-84.4989432423
HLX-133	H133	333	W VINE ST	38.0477229949	-84.4996362287
HLX-134	H134	333	W VINE ST	38.0473889202	-84.5001160306
HLX-135	H135	369	W VINE ST	38.0485434617	-84.5006227451
HLX-136	H136	0	S BROADWAY	38.0482550268	-84.5010337567
HLX-141	H141	148	GRAND BLVD	38.0403914776	-84.4932419235
HLX-142	H142	145	ROSE ST	38.042063062	-84.4940316253
HLX-143	H143	449	E HIGH ST	38.0385600012	-84.4935970877
HLX-144	H144	377	CORRAL ST	38.0433562684	-84.4890737604
HLX-145	H145	343	E HIGH ST	38.0402340463	-84.494003544
HLX-146	H146	325	W MAIN ST	38.0484802713	-84.4995589916
HLX-147	H147	280	E HIGH ST	38.0414891964	-84.4947797468
HLX-148	H148	224	E HIGH ST	38.0426019289	-84.4960253795
HLX-149	H149	180	E HIGH ST	38.0431965407	-84.4968210631
HLX-150	H150	301	SOUTHLAND DR	38.0436749906	-84.4972088838
HLX-151	H151	10	E HIGH ST	38.0444076746	-84.4980690881
HLX-152	H152	577	E 3RD ST	38.0426944426	-84.4819720103
HLX-153	H153	102	W HIGH ST	38.0451702578	-84.498910169
HLX-154	H154	30	S UPPER ST	38.0459536006	-84.4997911279
HLX-155	H155	128	W SHORT ST	38.047271651	-84.4967989251
HLX-156	H156	30	W HIGH ST	38.0468615334	-84.5008877948
HLX-157	H157	243	E MAIN ST	38.0439974814	-84.4942256875
HLX-158	H158	301	S BROADWAY	38.0476891498	-84.5018049029
HLX-159	H159	214	E MAIN ST	38.0444896535	-84.4950980064
HLX-161	H161	404	W MAIN ST	38.049500766	-84.5003604164
HLX-163	H163	555	W 2ND ST	38.0548114699	-84.5018622316
HLX-164	H164	630	W HIGH ST	38.0498918228	-84.5048864351
HLX-165	H165	245	LEXINGTON AVE	38.0424132469	-84.4979699904
HLX-166	H166	245	S LIMESTONE	38.0443367241	-84.5000404778
HLX-167	H167	347	S UPPER ST	38.0450986727	-84.5010228979

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-168	H168	347	S MILL ST	38.0460240395	-84.5020546992
HLX-169	H169	343	S BROADWAY	38.0468180462	-84.5030727581
HLX-172	H172	278	E MAXWELL ST	38.0397645471	-84.4971925219
HLX-173	H173	238	E MAXWELL ST	38.0405201852	-84.4980759234
HLX-174	H174	185	E MAXWELL ST	38.0414990134	-84.4992010857
HLX-175	H175	135	E MAXWELL ST	38.0424611251	-84.5003128012
HLX-176	H176	440	RACE ST	38.0460651989	-84.4835176875
HLX-177	H177	304	S LIMESTONE	38.0433553791	-84.501409663
HLX-178	H178	401	S UPPER ST	38.0442497737	-84.5023179586
HLX-179	H179	124	INDIANA AVE	38.040767312	-84.4892669053
HLX-180	H180	30	W MAXWELL ST	38.0452044762	-84.5032076941
HLX-181	H181	126	W MAIN ST	38.0466008522	-84.4974541481
HLX-182	H182	401	S BROADWAY	38.045921328	-84.5042883709
HLX-183	H183	0	E VINE ST	38.0408769238	-84.4910431648
HLX-185	H185	401	SPRING ST	38.0467423455	-84.5051764373
HLX-186	H186	409	PATTERSON ST	38.0476488501	-84.5062357756
HLX-187	H187	840	E 7TH ST	38.0429550245	-84.4707917014
HLX-188	H188	341	S LIMESTONE	38.0426233341	-84.5024110321
HLX-189	H189	429	S UPPER ST	38.0435863345	-84.5032315317
HLX-190	H190	505	S MILL ST	38.0444362246	-84.5044194765
HLX-191	H191	502	S BROADWAY	38.0452429011	-84.5053117092
HLX-192	H192	433	SPRING ST	38.0460996837	-84.5060943314
HLX-193	H193	540	PINE ST	38.0469836752	-84.5072475185
HLX-194	H194	534	S UPPER ST	38.0428200509	-84.5043168251
HLX-195	H195	501	S BROADWAY	38.0449225862	-84.5058325183
HLX-200	H200	2425	WOODHILL DR	38.0438425227	-84.5072888006
HLX-201	H201	122	PARK AVE	38.0371935282	-84.4878234519
HLX-202	H202	60	CENTRAL AVE	38.0364802475	-84.4888262
HLX-203	H203	722	W HIGH ST	38.0502469164	-84.5057896336
HLX-204	H204	1124	RUSSELL CAVE RD	38.0588953027	-84.5011785184
HLX-205	H205	371	GEORGETOWN ST	38.0597589009	-84.5008902248
HLX-206	H206	400	NEWTOWN PIKE	38.0604300637	-84.5007663803
HLX-208	H208	350	W SHORT ST	38.0490261169	-84.4987655232
HLX-209	H209	436	W 6TH ST	38.05764	-84.49045

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-212	H212	150	E MAIN ST	38.0454015781	-84.4961404204
HLX-219	H219	401	CHESTNUT ST	38.0465348381	-84.4855457924
HLX-220	H220	371	OHIO ST	38.0470687017	-84.4863583527
HLX-221	H221	398	E 5TH ST	38.0478467865	-84.4836333636
HLX-222	H222	469	W 4TH ST	38.0558315722	-84.4959995646
HLX-223	H223	372	JEFFERSON ST	38.056347995	-84.4965830734
HLX-224	H224	165	JEFFERSON ST	38.0530487837	-84.5011748856
HLX-229	H229	70	W MAXWELL ST	38.0484690347	-84.5071313331
HLX-230	H230	726	W MAXWELL ST	38.0490979266	-84.5077970045
HLX-231	H231	822	W MAXWELL ST	38.0497034935	-84.5084794977
HLX-235	H235	304	E 5TH ST	38.0485023072	-84.4842101799
HLX-236	H236	232	E 4TH ST	38.0486731241	-84.4879692368
HLX-237	H237	138	E 6TH ST	38.0529657576	-84.4853630706
HLX-238	H238	558	E HIGH ST	38.0347723511	-84.4919661236
HLX-239	H239	490	E HIGH ST	38.0369524443	-84.4929933273
HLX-240	H240	442	E 5TH ST	38.0468951504	-84.482409939
HLX-243	H243	536	PEMBERTON ST	38.0478789677	-84.4815987639
HLX-244	H244	571	PEMBERTON ST	38.0485899996	-84.4806312658
HLX-245	H245	345	RACE ST	38.0454296876	-84.4845420814
HLX-246	H246	501	ELM TREE LN	38.0493659375	-84.4848942075
HLX-247	H247	123	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-249	H249	171	WOODLAND AVE	38.0373815968	-84.4920751701
HLX-250	H250	1778	GETTYSBURG RD	38.0376812957	-84.4896796031
HLX-251	H251	169	KENTUCKY AVE	38.0367402989	-84.4910644764
HLX-252	H252	201	KENTUCKY AVE	38.0358892582	-84.4922261616
HLX-253	H253	20	E 6TH ST	38.0520129756	-84.4844195242
HLX-254	H254	508	W 6TH ST	38.0594783684	-84.4925873921
HLX-255	H255	534	MARYLAND AVE	38.0554799738	-84.5008232446
HLX-256	H256	266	E 4TH ST	38.0476687668	-84.4870089432
HLX-257	H257	533	E 3RD ST	37.9512027853	-84.48341206
HLX-258	H258	147	FOREST AVE	38.0402805775	-84.4872235453
HLX-259	H259	805	W HIGH ST	38.0504791487	-84.5064441821
HLX-260	H260	832	W HIGH ST	38.0494850765	-84.5038321507
HLX-261	H261	432	MERINO ST	38.0478336702	-84.5080481609

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-262	H262	725	PINE ST	38.0484811216	-84.5086875305
HLX-263	H263	622	CENTRAL AVE	38.035829337	-84.4881190884
HLX-264	H264	369	BLACKBURN AVE	38.0574917358	-84.4979105938
HLX-265	H265	366	HENRY ST	38.0585137614	-84.4989801702
HLX-266	H266	824	DE ROODE ST	38.0499497532	-84.5122467167
HLX-267	H267	151	CURLEY AVE	38.0434478078	-84.4909309805
HLX-268	H268	659	S LIMESTONE	38.0358143337	-84.507908984
HLX-269	H269	121	WALTON AVE	38.0372369743	-84.4851350314
HLX-270	H270	110	THE LN	38.0423957709	-84.5143302925
HLX-273	H273	561	W 3RD ST	38.0570129214	-84.5007347542
HLX-275	H275	524	W 5TH ST	38.0572358917	-84.4938646815
HLX-276	H276	465	BOURBON AVE	38.0565904007	-84.4931380073
HLX-277	H277	558	W 5TH ST	38.0578035602	-84.4945031249
HLX-278	H278	644	ELSMERE PK	38.0564283019	-84.4865503299
HLX-279	H279	333	BLACKBURN AVE	38.056906736	-84.4989579333
HLX-281	H281	325	MADISON PL	38.0499880073	-84.5069742007
HLX-282	H282	941	MANCHESTER ST	38.0531962886	-84.5107342125
HLX-283	H283	231	WILLARD ST	38.0524364112	-84.511228426
HLX-284	H284	439	N UPPER ST	38.052511376	-84.4903334311
HLX-285	H285	426	CURRY AVE	38.0418929641	-84.5127848219
HLX-286	H286	456	CURRY AVE	38.0429310619	-84.5138342806
HLX-287	H287	473	SILVER MAPLE WAY	38.050028051	-84.4859557583
HLX-289	H289	338	N UPPER ST	38.050994752	-84.4924726791
HLX-290	H290	536	N UPPER ST	38.0539529537	-84.4883085242
HLX-291	H291	426	CHAIR AVE	38.0439026793	-84.5089020032
HLX-292	H292	617	PATTERSON ST	38.0450101725	-84.5099285324
HLX-293	H293	301	GROSVENOR AVE	38.042063062	-84.4940316253
HLX-294	H294	324	ROSE ST	38.038791694	-84.4984742858
HLX-295	H295	40	ROSE ST	38.037757199	-84.499972938
HLX-296	H296	545	ELM TREE LN	38.0502741349	-84.4837508929
HLX-297	H297	240	E 6TH ST	38.050998557	-84.4832127858
HLX-299	H299	437	SMITH ST	38.056626675	-84.4949247223
HLX-300	H300	998	MAYWICK DR	38.0392037763	-84.4949355119
HLX-301	H301	339	JEFFERSON ST	38.0557716249	-84.4976694474

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-302	H302	238	JEFFERSON ST	38.058572671	-84.4935534709
HLX-304	H304	228	W 6TH ST	38.0555437842	-84.4881097675
HLX-305	H305	323	E SHORT ST	38.0434053098	-84.4918245626
HLX-306	H306	338	MERINO ST	38.0491680314	-84.5059437423
HLX-307	H307	163	PRALL ST	38.0381701015	-84.5096248389
HLX-308	H308	146	MONTMULLIN ST	38.0387232306	-84.5088030475
HLX-309	H309	140	COLFAX ST	38.0392728279	-84.5083326798
HLX-310	H310	650	TOWER PLZ	38.0536901014	-84.5017977954
HLX-311	H311	635	BALLARD ST	38.0535570257	-84.5025935913
HLX-312	H312	535	W 2ND ST	38.0542074002	-84.5011838742
HLX-313	H313	221	AVENUE OF CHAMPIONS	38.0391043671	-84.5011572948
HLX-314	H314	326	WOODLAND AVE	38.0359215841	-84.4942789755
HLX-315	H315	233	KENTUCKY AVE	38.0348606372	-84.4935532545
HLX-317	H317	150	INDIANA AVE	38.0409498056	-84.4879511582
HLX-318	H318	425	GEORGETOWN ST	38.0608562564	-84.5012920098
HLX-319	H319	301	W 4TH ST	38.05269688	-84.49236272
HLX-320	H320	1060	W HIGH ST	38.0501531558	-84.5151005853
HLX-321	H321	421	JOHNSON AVE	38.050965998	-84.4887085665
HLX-323	H323	559	E 3RD ST	38.04311775	-84.48294447
HLX-324	H324	572	N UPPER ST	38.0545291366	-84.4872487646
HLX-325	H325	310	CORRAL ST	38.0448056782	-84.4910414445
HLX-326	H326	119	AVENUE OF CHAMPIONS	38.0406579547	-84.5027282228
HLX-327	H327	505	RUSSELL AVE	38.0411273364	-84.4864637125
HLX-328	H328	338	E 2ND ST	38.0447264254	-84.489316045
HLX-329	H329	426	E 2ND ST	38.0432221806	-84.4876429696
HLX-330	H330	528	E 2ND ST	38.0424932174	-84.4868431231
HLX-331	H331	716	N LIMESTONE	38.0557911412	-84.483582951
HLX-332	H332	525	OHIO ST	38.0493280913	-84.4834294685
HLX-333	H333	535	CHESTNUT ST	38.0487221859	-84.4824565005
HLX-334	H334	532	JEFFERSON ST	38.058572671	-84.4935534709
HLX-335	H335	550	W 6TH ST	38.0599990977	-84.4930634633
HLX-336	H336	635	HEADLEY AVE	38.0584690498	-84.4894766135
HLX-337	H337	316	W HIGH ST	38.0560994141	-84.4852462177
HLX-338	H338	675	N MARTIN LUTHER KING BLVD	38.0536742388	-84.4823860277

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-339	H339	435	KENTON ST	38.0537212686	-84.4919097875
HLX-340	H340	2095	DEAUVILLE DR	38.0349453544	-84.5039312915
HLX-346	H346	854	W MAIN ST	38.0563963373	-84.5093353901
HLX-347	H347	60	S MILL ST	38.0437213512	-84.5053136101
HLX-349	H349	228	CAMPSIE PL	38.0483011899	-84.4889265624
HLX-351	H351	101	LAFAYETTE AVE	38.036858192	-84.4866028409
HLX-352	H352	353	NELSON AVE	38.0440550748	-84.4808828336
HLX-354	H354	605	CHESTNUT ST	38.049541245	-84.4811823768
HLX-355	H355	299	E 6TH ST	38.0502122978	-84.4821246242
HLX-356	H356	336	LINDEN WALK	38.0383046796	-84.4973402849
HLX-357	H357	435	N MARTIN LUTHER KING BLVD	38.0502559251	-84.4877665194
HLX-358	H358	435	HAWKINS AVE	38.0466935554	-84.484146705
HLX-359	H359	623	ELSMERE PK	38.0559655074	-84.4875617323
HLX-360	H360	144	ALABAMA AVE	38.053980852	-84.4838016135
HLX-361	H361	652	N MARTIN LUTHER KING BLVD	38.0532141715	-84.4830385351
HLX-362	H362	741	CHARLES AVE	38.0605148461	-84.5023831044
HLX-363	H363	960	MANCHESTER ST	38.0534668069	-84.5112946669
HLX-364	H364		COLUMBIA AVE	38.03536262	-84.50228253
HLX-365	H365	242	RAND AVE	38.0508476579	-84.4845280937
HLX-366	H366	329	AYLESFORD PL	38.0375173798	-84.4966000399
HLX-368	H368	238	RODES AVE	38.043430569	-84.4988262223
HLX-369	H369	445	CHESTNUT ST	38.0473736907	-84.4843459585
HLX-370	H370	601	PATTERSON ST	38.0452763583	-84.5093685029
HLX-372	H372	437	SILVER MAPLE WAY	38.0493700461	-84.4869329807
HLX-373	H373	401	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-374	H374	401	LINDEN WALK	38.037055242	-84.4991433501
HLX-375	H375	401	AYLESFORD PL	38.0363268082	-84.4982916268
HLX-376	H376	637	N UPPER ST	38.0555046715	-84.4861900174
HLX-377	H377	334	WILGUS AVE	38.045372326	-84.4854965656
HLX-378	H378	741	WHITNEY AVE	38.0599003498	-84.5032966892
HLX-379	H379	525	SMITH ST	38.057886293	-84.4930637562
HLX-380	H380	1403	VERSAILLES RD	38.0576963652	-84.4998074198
HLX-381	H381	539	TONER ST	38.0548583079	-84.4892645059
HLX-382	H382	437	OHIO ST	38.0478817648	-84.4852982427

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-383	H383	335	OHIO ST	38.0463774215	-84.4873235224
HLX-384	H384	338	CORRAL ST	38.0441696105	-84.4900081861
HLX-385	H385	421	CORRAL ST	38.042717828	-84.4883943798
HLX-386	H386	512	PINE ST	38.0463393523	-84.5065348302
HLX-387	H387	135	GRAHAM AVE	38.036282499	-84.5065531944
HLX-388	H388	337	LEXINGTON AVE	38.0407067198	-84.500254328
HLX-389	H389	109	W LOUDON AVE	38.0580965204	-84.4823057883
HLX-390	H390	50	E 7TH ST	38.0496360859	-84.4773962294
HLX-391	H391	728	E MAIN ST	38.0352028917	-84.4846518312
HLX-392	H392	251	S ASHLAND AVE	38.0326134263	-84.4880987972
HLX-393	H393	111	HAGERMAN CT	38.0420161146	-84.4971684947
HLX-395	H395	455	NELMS AVE	38.0403630704	-84.5162707146
HLX-396	H396	444	HAYMAN AVE	38.0436675368	-84.5100368458
HLX-397	H397	531	RUSSELL AVE	38.0401706287	-84.4855710386
HLX-398	H398	536	SAYRE AVE	38.0391434836	-84.4869551269
HLX-399	H399	307	S ASHLAND AVE	38.0311224624	-84.4902978416
HLX-400	H400	528	GROVE LN	38.0529524427	-84.4816353783
HLX-403	H403	183	WALTON AVE	38.0388235644	-84.4825292928
HLX-404	H404	143	WALTON AVE	38.0377438594	-84.4843077459
HLX-405	H405	112	W LOUDON AVE	38.0577476412	-84.4822132187
HLX-406	H406	55	MENTELLE PK	38.0364282441	-84.4784024288
HLX-407	H407	213	WALTON AVE	38.0396523421	-84.4816761583
HLX-408	H408	248	E LOUDON AVE	38.0537710344	-84.4777093965
HLX-409	H409	657	CHESTNUT ST	38.050940208	-84.4792769378
HLX-410	H410	437	PASADENA DR	38.0523724764	-84.4807987863
HLX-411	H411	290	E LOUDON AVE	38.0522235856	-84.4759114903
HLX-412	H412	134	E 7TH ST	38.0545030288	-84.483389259
HLX-413	H413	70	JACKSON ST	38.0480836303	-84.4753451358
HLX-414	H414	776	N LIMESTONE	38.0567522134	-84.4822044368
HLX-415	H415	144	E LOUDON AVE	38.0563317425	-84.4804230219
HLX-417	H417	70	E MAIN ST	38.0359957167	-84.4855789851
HLX-418	H418	801	S LIMESTONE	38.0332700641	-84.5090630164
HLX-419	H419	668	E 7TH ST	38.0468102199	-84.473630154
HLX-420	H420	524	SHELBY ST	38.0498342808	-84.4753168424

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-421	H421	601	SHELBY ST	38.0488577605	-84.474040384
HLX-422	H422	572	BRECKENRIDGE ST	38.0473954504	-84.476469628
HLX-423	H423	633	CHESTNUT ST	38.0501461	-84.48027727
HLX-424	H424	438	BRECKENRIDGE ST	38.0493602266	-84.479130454
HLX-425	H425	634	SHROPSHIRE AVE	38.0487281267	-84.4782963081
HLX-427	H427	601	E HIGH ST	38.0340896194	-84.4916330274
HLX-429	H429	626	E HIGH ST	38.0333233958	-84.4912405157
HLX-430	H430	551	E 6TH ST	38.0479386909	-84.4796938181
HLX-431	H431	176	N ASHLAND AVE	38.0374628159	-84.4812892566
HLX-432	H432	151	N ASHLAND AVE	38.0366554515	-84.4824070725
HLX-433	H433	198	N ASHLAND AVE	38.0381003703	-84.4803308862
HLX-434	H434	117	N ASHLAND AVE	38.0359923361	-84.4833940775
HLX-435	H435	199	N HANOVER AVE	38.0371137019	-84.4792457887
HLX-436	H436	151	N HANOVER AVE	38.0357275161	-84.4812560081
HLX-437	H437	833	E MAIN ST	38.0343151877	-84.4833053051
HLX-438	H438	127	N HANOVER AVE	38.0350352897	-84.4823009644
HLX-439	H439	177	N HANOVER AVE	38.0364406754	-84.4802242247
HLX-440	H440	198	E LOUDON AVE	38.054814433	-84.4789576541
HLX-441	H441	845	BRYAN AVE	38.05734934	-84.4734026
HLX-442	H442	1021	N LIMESTONE	38.0597542999	-84.4779366739
HLX-443	H443	201	ARCEME AVE	38.0580249253	-84.4757576062
HLX-444	H444	997	BRYAN AVE	38.0569426317	-84.4748727989
HLX-445	H445	1203	N LIMESTONE	38.061009493	-84.4760929051
HLX-446	H446	20	CARLISLE AVE	38.0591759959	-84.474194084
HLX-447	H447	259	CARLISLE AVE	38.0577579406	-84.4724518069
HLX-448	H448	1101	BRYAN AVE	38.0573633722	-84.4736288218
HLX-449	H449	1105	N LIMESTONE	38.06042371	-84.4770277171
HLX-451	H451	180	DEVONIA AVE	38.0586685668	-84.475133834
HLX-452	H452	345	LAFAYETTE AVE	38.0319976407	-84.4931155297
HLX-453	H453	338	OLDHAM AVE	38.0340989457	-84.4929579005
HLX-454	H454	412	ROSE ST	38.0369731097	-84.5009850967
HLX-456	H456	276	KENTUCKY AVE	38.0338250572	-84.4951759029
HLX-457	H457	135	CLAY AVE	38.0350522021	-84.4869401933
HLX-458	H458	20	S ASHLAND AVE	38.0340768028	-84.4860129873

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-459	H459	129	HAGERMAN CT	38.0414132079	-84.4979771114
HLX-460	H460	2356	WOODFIELD CIR	38.0340822531	-84.5087612076
HLX-461	H461	693	S LIMESTONE	38.0351681097	-84.508314832
HLX-462	H462	131	VIRGINIA AVE	38.0352064669	-84.5094733003
HLX-463	H463	181	VIRGINIA AVE	38.0356276316	-84.5110788188
HLX-464	H464	360	S BROADWAY PK	38.0385607844	-84.5134208588
HLX-465	H465	336	S BROADWAY PK	38.0379542374	-84.5128055524
HLX-467	H467	1076	S BROADWAY	38.0374223769	-84.5172599924
HLX-468	H468	1030	S BROADWAY	38.0375706596	-84.5166631949
HLX-469	H469	373	VIRGINIA AVE	38.037894269	-84.5141893244
HLX-471	H471	1101	WINBAK WAY	38.042072944	-84.519172997
HLX-472	H472	324	S MARTIN LUTHER KING BLVD	38.0416820322	-84.500678111
HLX-473	H473	469	JOHNSON AVE	38.0517167576	-84.4877721932
HLX-474	H474	536	GEORGETOWN ST	38.0633311808	-84.5021334186
HLX-475	H475	665	GEORGETOWN ST	38.0665104801	-84.5031641743
HLX-476	H476	726	GEORGETOWN ST	38.0676116623	-84.5035399207
HLX-477	H477	572	GEORGETOWN ST	38.0647058674	-84.5025697078
HLX-478	H478	508	GEORGETOWN ST	38.0627169345	-84.5019428661
HLX-479	H479	533	NEWTOWN PIKE	38.0628276012	-84.5002466987
HLX-480	H480	2025	PLANTERS CT	38.0642411464	-84.4996807708
HLX-481	H481	532	BOOKER ST	38.0619246103	-84.5005508332
HLX-483	H483	828	CHARLES AVE	38.0617398116	-84.5037017854
HLX-484	H484	869	WHITNEY AVE	38.061829755	-84.505451665
HLX-485	H485	437	BOURBON AVE	38.0558158451	-84.4941343611
HLX-486	H486	843	S BROADWAY	38.0414598805	-84.515649862
HLX-487	H487	471	NELMS AVE	38.0406793032	-84.5168803042
HLX-488	H488	746	MAPLE AVE	38.0540133291	-84.4802059773
HLX-489	H489	578	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-490	H490	455	WOODLAND AVE	38.0333552346	-84.4978732293
HLX-491	H491	801	WHITNEY AVE	38.0605070878	-84.5039262843
HLX-492	H492	425	COLUMBIA AVE	38.0336154273	-84.5005310451
HLX-493	H493		COLUMBIA AVE	38.03433211	-84.50111856
HLX-494	H494	675	WINCHESTER RD	38.0415226058	-84.4796360672
HLX-495	H495	772	WINCHESTER RD	38.0413909498	-84.4757725326

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-496	H496	80	WINCHESTER RD	38.0415450393	-84.4737886878
HLX-497	H497	659	PRICE AVE	38.059772762	-84.4892291348
HLX-498	H498	717	N BROADWAY	38.0585675621	-84.4863546471
HLX-499	H499	739	DAKOTA ST	38.0580524436	-84.4851411714
HLX-500	H500	4704	SPRING CREEK DR	38.0499669388	-84.5168159085
HLX-501	H501	1175	VERSAILLES RD	38.0499782791	-84.5183669648
HLX-502	H502	50	ROBERTSON ST	38.0514041957	-84.5154596105
HLX-506	H506	565	ROSE ST	38.0341971349	-84.5051419321
HLX-507	H507	0	FORBES RD	38.0349417254	-84.5061162871
HLX-508	H508	3813	BLACKBERRY LN	38.0326137001	-84.5102680839
HLX-509	H509	919	S LIMESTONE	38.0316253948	-84.5096830659
HLX-510	H510	601	BOONESBORO AVE	38.0407173923	-84.4837617553
HLX-511	H511	935	CHARLES AVE	38.0633459974	-84.5055341546
HLX-512	H512	655	W 2ND ST	38.0567366712	-84.5037007443
HLX-513	H513	272	CLAY AVE	38.033009711	-84.4898721102
HLX-515	H515	325	ROSS AVE	38.055020921	-84.4973061094
HLX-516	H516	340	E 7TH ST	38.0516382855	-84.4799264395
HLX-517	H517	324	HAMPTON CT	38.0548442217	-84.4966083628
HLX-518	H518	321	LAFAYETTE AVE	38.0327454625	-84.4920136543
HLX-519	H519	171	N UPPER ST	38.0485998241	-84.496016231
HLX-520	H520	3948	GRASSY CREEK DR	38.0342238103	-84.4880328842
HLX-521	H521	319	CLAY AVE	38.0319734877	-84.4915674953
HLX-522	H522	641	E EUCLID AVE	38.0313481147	-84.4926069521
HLX-523	H523	223	RACE ST	38.0437140672	-84.4869070122
HLX-524	H524	301	ASH ST	38.0629883654	-84.5066731115
HLX-526	H526	333	PARK AVE	38.0333944348	-84.4925972754
HLX-527	H527	547	E EUCLID AVE	38.0326436663	-84.4938061931
HLX-528	H528	134	LEADER AVE	38.0333901088	-84.5101323098
HLX-529	H529	116	CLAY AVE	38.0355786685	-84.4862066138
HLX-530	H530	1135	RED MILE PL	38.0642430383	-84.5037564201
HLX-531	H531	874	W MAIN ST	38.0571875903	-84.5104947189
HLX-532	H532	336	CAMPSIE PL	38.0471451073	-84.4885181856
HLX-535	H535	797	PRESS AVE	38.0338793486	-84.5118371658
HLX-536	H536	339	LEXINGTON AVE	38.0401356544	-84.5010384189

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-540	H540	263	WILLARD ST	38.0516621328	-84.5117912349
HLX-541	H541	101	VALLEY AVE	38.051061463	-84.5120113123
HLX-542	H542	128	EDDIE ST	38.0552000778	-84.4828415786
HLX-543	H543	157	EDDIE ST	38.0545885198	-84.4821627739
HLX-545	H545	931	VALLEY AVE	38.0510012012	-84.5104573122
HLX-546	H546	70	E 7TH ST	38.0462285375	-84.4728268032
HLX-547	H547	431	CAMPBELL ST	38.0531249865	-84.4914072529
HLX-548	H548	601	CHESTNUT OAK WAY	38.0647064679	-84.5005563165
HLX-549	H549	306	S BROADWAY PK	38.0372914769	-84.5121147165
HLX-550	H550	1224	SPECULATOR CT	38.0449365173	-84.5076746315
HLX-551	H551	240	W VINE ST	38.0470612447	-84.4992416195
HLX-552	H552	240	W VINE ST	38.0470613444	-84.4995358645
HLX-553	H553	615	MAPLE AVE	38.052245798	-84.4826176906
HLX-554	H554	40	S LIMESTONE	38.04037	-84.50549
HLX-556	H556	218	S ASHLAND AVE	38.0334675526	-84.4868708083
HLX-557	H557	276	S ASHLAND AVE	38.0319202626	-84.4890131591
HLX-558	H558	720	CRAMER AVE	38.038862248	-84.4809713706
HLX-559	H559	333	W VINE ST	38.0475666313	-84.5000148884
HLX-560	H560		PINE ST	38.04941681	-84.50967744
HLX-562	H562	616	DE ROODE ST	38.0471341826	-84.510726257
HLX-564	H564	824	BENNETT AVE	38.0482901033	-84.5185045023
HLX-565	H565	796	BENNETT AVE	38.0473561586	-84.5182160559
HLX-566	H566	434	JEFFERSON ST	38.0571461231	-84.4955157212
HLX-567	H567	137	CHURCH ST	38.0478401169	-84.4959995224
HLX-568	H568	0	PLEASANT STONE ST	38.0471454313	-84.4939550403
HLX-570	H570	656	SMUGGLERS NOTCH DR	38.0343279406	-84.48136082
HLX-571	H571	40	MENTELLE PK	38.0356272495	-84.4794689338
HLX-572	H572	346	S MARTIN LUTHER KING BLVD	38.0409471645	-84.5014790785
HLX-573	H573	591	S LIMESTONE	38.041371557	-84.5062114511
HLX-574	H574	162	BONNIE BRAE DR	38.0366623322	-84.5106663538
HLX-575	H575	0	W 5TH ST	38.0557181348	-84.4921866582
HLX-582	H582	321	S ASHLAND AVE	38.03048718	-84.49108055
HLX-583	H583	633	OHIO ST	38.0509115961	-84.4811042494
HLX-585	H585	1	SHREVE AVE	38.0402453301	-84.4921050373

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-586	H586	531	PATTERSON ST	38.0463323437	-84.5081786672
HLX-587	H587	220	CORRAL ST	38.0456600782	-84.4925548264
HLX-588	H588	528	GOODLOE ST	38.0429745343	-84.4861029078
HLX-590	H590	201	MOUSAS WAY	38.0578510831	-84.4785649798
HLX-591	H591	575	W 6TH ST	38.0605330618	-84.4936116908
HLX-594	H594	389	OLDHAM AVE	38.0332146019	-84.494268803
HLX-595	H595	609	RUSSELL AVE	38.0394211119	-84.4847355686
HLX-596	H596	132	RAND AVE	38.0525579998	-84.4864349152
HLX-598	H598	418	ROSE LN	38.0356260021	-84.4993443221
HLX-599	H599	777	ANGLIANA AVE	38.0485718318	-84.5149211271
HLX-601	H601	60	HADLOW ST	38.0433879451	-84.5058423665
HLX-602	H602	331	CHURCH ST	38.0495693735	-84.4979094557
HLX-603	H603	154	E SHORT ST	38.0568309531	-84.484166529
HLX-604	H604	2549	FLYING EBONY DR	38.0409302556	-84.5091273726
HLX-605	H605	30	WOODLAND AVE	38.0363911595	-84.4935010471
HLX-607	H607	620	W SHORT ST	38.0528326409	-84.5030145428
HLX-609	H609	622	W 4TH ST	38.0594262384	-84.4999401944
HLX-610	H610	2404	ENGLISH STATION DR	38.0330384225	-84.512092688
HLX-611	H611	130	E BELL CT	38.0383343767	-84.485984517
HLX-619	H619	428	DAVIDSON CT	38.058132656	-84.488976365
HLX-622	H622	524	DUNAWAY ST	38.0457188623	-84.5076470514
HLX-623	H623	561	S BROADWAY	38.0441249644	-84.5069397745
HLX-624	H624	194	MONTMULLIN ST	38.0390583446	-84.5104284772
HLX-626	H626	482	ANGLIANA AVE	38.0442668913	-84.5137266283
HLX-627	H627	458	ANGLIANA AVE	38.0433688393	-84.512767179
HLX-628	H628	329	VIRGINIA AVE	38.0367739878	-84.5137615287
HLX-629	H629	490	CURRY AVE	38.0439917454	-84.514922409
HLX-630	H630	121	S HANOVER AVE	38.0335583748	-84.4843107023
HLX-631	H631	623	SHELBY ST	38.0482811085	-84.4731959677
HLX-633	H633	1064	MANCHESTER ST	38.0542219421	-84.5132598861
HLX-634	H634	497	ANGLIANA AVE	38.0447910708	-84.5127535372
HLX-635	H635	108	BUCHANAN ST	38.0556690055	-84.5097714036
HLX-636	H636	525	BOONESBORO AVE	38.0414029246	-84.484511792
HLX-637	H637	615	BOONESBORO AVE	38.0400101257	-84.4829838143

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-638	H638	124	YORK ST	38.055804841	-84.4822538729
HLX-639	H639	156	YORK ST	38.0550554439	-84.4813674486
HLX-640	H640	198	PRALL ST	38.0384802634	-84.5109811118
HLX-641	H641	188	COLFAX ST	38.0396309884	-84.5099272415
HLX-642	H642	539	COLUMBIA AVE	38.0314857904	-84.4979165227
HLX-643	H643	567	COLUMBIA AVE	38.0305964457	-84.4969039076
HLX-644	H644	435	PARK AVE	38.0318064974	-84.4950835435
HLX-645	H645	423	MARQUIS AVE	38.0307556179	-84.4941564516
HLX-646	H646	451	S ASHLAND AVE	38.0296315133	-84.492441972
HLX-647	H647	463	ASHLAND TER	38.0301046445	-84.493493777
HLX-648	H648	844	E EUCLID AVE	38.0294057658	-84.4904961402
HLX-649	H649	725	LANCASTER AVE	38.0531251379	-84.4798363187
HLX-652	H652	144	TRANSCRIPT AVE	38.0318798495	-84.5111346787
HLX-653	H653	621	ELM TREE LN	38.0515168991	-84.4819398066
HLX-654	H654	1248	HAMMOND AVE	38.0480781174	-84.5205193228
HLX-655	H655	646	MAXWELTON CT	38.0363125118	-84.5091857352
HLX-656	H656	474	ANGLIANA AVE	38.0438371849	-84.5133120055
HLX-657	H657	411	KENILWORTH CT	38.0551132712	-84.4934569236
HLX-658	H658	237	PERRY ST	38.0525691239	-84.5120600702
HLX-659	H659	730	AURORA AVE	38.0387756732	-84.4793882049
HLX-661	H661	902	AURORA AVE	38.0375989724	-84.4782483821
HLX-662	H662	235	WALTON AVE	38.0403688202	-84.4807718862
HLX-663	H663	434	DE ROODE ST	38.0444460263	-84.5084581591
HLX-664	H664	726	FRANKLIN AVE	38.0373436191	-84.482725731
HLX-665	H665	724	BULLOCK PL	38.0367268531	-84.4836490931
HLX-666	H666	423	DELCAMP DR	38.0591760299	-84.4881946547
HLX-668	H668	155	GRAHAM AVE	38.0354240931	-84.505579647
HLX-669	H669	405	ROBERTSON ST	38.0525729551	-84.5155737334
HLX-670	H670	243	STONE AVE	38.0409639525	-84.4971374731
HLX-671	H671	255	LYNDHURST PL	38.04151	-84.49626
HLX-672	H672	138	S HANOVER AVE	38.0327631184	-84.4848435317
HLX-673	H673	905	WINCHESTER RD	38.0416599312	-84.4715479598
HLX-674	H674	924	AURORA AVE	38.0365906023	-84.4769995181
HLX-675	H675	225	S HANOVER AVE	38.0321704051	-84.4862688967

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-676	H676	839	PRESS AVE	38.0323407832	-84.5123959871
HLX-677	H677	133	RANSOM AVE	38.0389845914	-84.4922623862
HLX-678	H678	11	PRESTON CT	38.0395467011	-84.4926898486
HLX-679	H679	764	BENNETT AVE	38.0462607258	-84.5178744724
HLX-680	H680	520	OLDHAM CT	38.0301064856	-84.4982575169
HLX-683	H683	438	MICHIGAN ST	38.0630875357	-84.5035919709
HLX-685	H685	445	OLDHAM AVE	38.0319096915	-84.4964742892
HLX-686	H686	918	N LIMESTONE	38.0590106492	-84.4790082194
HLX-687	H687	247	S HANOVER AVE	38.0315389012	-84.4873778552
HLX-689	H689	720	ROSE ST	38.0332658492	-84.5061451868
HLX-690	H690	764	ROSE ST	38.0326046737	-84.5071077065
HLX-691	H691	848	N LIMESTONE	38.0582181144	-84.4801609142
HLX-692	H692	125	WITTLAND LN	38.0572437261	-84.479883757
HLX-693	H693	437	ELM ST	38.0623331512	-84.5026792421
HLX-694	H694	359	BUCOTO CT	38.0387210663	-84.5122723924
HLX-695	H695	120	CHRYSALIS CT	38.0437402389	-84.4991682065
HLX-696	H696	532	E 7TH ST	38.0490117904	-84.4765874052
HLX-698	H698	729	PRICE AVE	38.0605420679	-84.4880935852
HLX-699	H699	530	E LOUDON AVE	38.0512081782	-84.4746289153
HLX-701	H701	265	S HANOVER AVE	38.0307445251	-84.4882544483
HLX-702	H702	1236	EMBRY AVE	38.0473408478	-84.5195998917
HLX-703	H703	760	WINCHESTER RD	38.0412793005	-84.4772017756
HLX-704	H704	630	BRECKENRIDGE ST	38.0467423201	-84.4754581025
HLX-706	H706	542	GRINSTEAD ST	38.0444110428	-84.4839882107
HLX-707	H707	566	GRINSTEAD ST	38.0924286897	-84.5312439497
HLX-708	H708	544	E LOUDON AVE	38.0506873424	-84.4739098894
HLX-709	H709	655	E LOUDON AVE	38.0497936568	-84.4724356498
HLX-710	H710	1976	EDGEWORTH DR	38.0396605548	-84.4912686653
HLX-711	H711	109	JANE ST	38.0515477248	-84.514029003
HLX-712	H712	429	SPEIGLE ST	38.0527059618	-84.5147595947
HLX-713	H713	953	HIGHLAND PARK DR	38.0540360396	-84.4722235512
HLX-714	H714	1017	RICHMOND RD	38.0329771652	-84.4816893231
HLX-715	H715	1109	RICHMOND RD	38.0323796946	-84.4811232704
HLX-716	H716	1135	RICHMOND RD	38.0318379286	-84.4805042404

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-717	H717	117	DESHA RD	38.0327148942	-84.4833335598
HLX-718	H718	118	DESHA RD	38.0319709129	-84.4833874758
HLX-719	H719	231	DESHA RD	38.0313025013	-84.4852403185
HLX-720	H720	303	DESHA RD	38.0306831625	-84.4864066686
HLX-721	H721	326	DESHA RD	38.0299044694	-84.4878041786
HLX-722	H722	1014	FONTAINE RD	38.0292479189	-84.4888173192
HLX-723	H723	105	IRVINE RD	38.0317690596	-84.4822694659
HLX-725	H725	235	IRVINE RD	38.0304162267	-84.4843243567
HLX-726	H726	301	IRVINE RD	38.0296625343	-84.4855933672
HLX-728	H728	344	IRVINE RD	38.0284292462	-84.4873926756
HLX-729	H729	125	MCDOWELL RD	38.0308600991	-84.4812248761
HLX-730	H730	1124	FINCASTLE RD	38.0302855449	-84.4823478394
HLX-732	H732	244	MCDOWELL RD	38.0286559315	-84.4844174204
HLX-733	H733	1136	FONTAINE RD	38.0277309566	-84.4861071388
HLX-734	H734	310	S HANOVER AVE	38.0301505884	-84.4891019576
HLX-735	H735	904	TATES CREEK RD	38.0275049789	-84.4908278755
HLX-736	H736	820	SUNSET DR	38.0278694359	-84.4920818967
HLX-737	H737	604	KASTLE RD	38.0283813037	-84.4934876918
HLX-738	H738	715	SUNSET DR	38.0289685785	-84.494516579
HLX-739	H739	105	TATES CREEK RD	38.0265296971	-84.4909670578
HLX-740	H740	822	MELROSE AVE	38.0271037876	-84.4924315722
HLX-741	H741	624	KASTLE RD	38.0275402869	-84.4938751756
HLX-742	H742	619	BEAUMONT AVE	38.0284152816	-84.4956420261
HLX-743	H743	110	TATES CREEK RD	38.0255715597	-84.4911974909
HLX-744	H744	836	TREMONT AVE	38.0260862309	-84.4926642493
HLX-746	H746	637	BEAUMONT AVE	38.0278092746	-84.4962044443
HLX-748	H748	684	MONTGOMERY AVE	38.0445698156	-84.4716520368
HLX-749	H749	325	GIVEN AVE	38.0390613105	-84.4773657154
HLX-750	H750	318	VINE ST	38.0412306114	-84.493496065
HLX-751	H751	1302	RICHMOND RD	38.0312040281	-84.4797903061
HLX-752	H752	1033	S LIMESTONE	38.0308729588	-84.5098608569
HLX-760	H760	901	GEORGETOWN ST	38.0706498252	-84.5045515629
HLX-761	H761	621	WINCHESTER RD	38.0419152963	-84.4805359491
HLX-762	H762	422	KENTUCKY CT	38.0329923219	-84.4962979077

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-765	H765	201	E VINE ST	38.0438709781	-84.4961070345
HLX-766	H766	0	E VINE ST	38.0431676874	-84.4953347313
HLX-767	H767	260	E VINE ST	38.0424273652	-84.4948122343
HLX-768	H768	225	PINE ST	38.0440718295	-84.5037372922
HLX-769	H769	220	CEDAR ST	38.0432902281	-84.5048526638
HLX-770	H770	412	GUNN ST	38.0451389816	-84.4888216221
HLX-772	H772	1141	COOLIDGE ST	38.0526523026	-84.5166229495
HLX-773	H773	220	WICKLIFFE ST	38.0462209482	-84.4917904329
HLX-774	H774	1230	FINCASTLE RD	38.0293535642	-84.4822088574
HLX-775	H775	739	NATIONAL AVE	38.0406664849	-84.4792966109
HLX-776	H776	142	RACE ST	38.0420778447	-84.4891666794
HLX-777	H777	525	CORRAL ST	38.0419595653	-84.4875027093
HLX-779	H779	830	S LIMESTONE	38.0324842216	-84.509260864
HLX-782	H782	534	ANGLIANA AVE	38.0464544447	-84.5154757164
HLX-783	H783	855	ANGLIANA AVE	38.0490453676	-84.5158950383
HLX-784	H784	316	ROSE LN	38.0363350835	-84.5001725454
HLX-786	H786	260	WARNOCK ST	38.0437517656	-84.4850225929
HLX-789	H789	910	DELAWARE AVE	38.0405908168	-84.4735037835
HLX-791	H791	737	LANCASTER AVE	38.0536982998	-84.4790040673
HLX-792	H792	597	S UPPER ST	38.0406100867	-84.506489335
HLX-793	H793	599	S UPPER ST	38.0398484351	-84.5067210464
HLX-794	H794	840	ANGLIANA AVE	38.0480685871	-84.5159008773
HLX-795	H795	573	ANGLIANA AVE	38.0473402034	-84.5156692198
HLX-796	H796	132	AVON AVE	38.0582619541	-84.4779699897
HLX-797	H797	914	NATIONAL AVE	38.0390252921	-84.4759575416
HLX-798	H798	0	JEFFERSON ST	38.0510283006	-84.5033737054
HLX-799	H799	1020	W MAIN ST	38.0597632424	-84.5146099677
HLX-801	H801	80	N LIMESTONE	38.0573365269	-84.4813829077
HLX-802	H802	155	E MAIN ST	38.0455440437	-84.4959714033
HLX-803	H803	461	MARQUIS AVE	38.0298947662	-84.4953359719
HLX-804	H804	1225	TATES CREEK RD	38.024000178	-84.4912834507
HLX-805	H805	501	PARK VIEW AVE	38.0548008667	-84.4709789372
HLX-806	H806	332	N ASHLAND AVE	38.0396362755	-84.477829018
HLX-807	H807	299	CASSIDY AVE	38.0229391979	-84.489440688

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-808	H808	30	COLONY BLVD	38.0221198865	-84.4881077525
HLX-810	H810	327	CARLISLE AVE	38.0568656633	-84.471553656
HLX-812	H812	331	DUKE RD	38.0202336708	-84.4878059015
HLX-813	H813	344	COLONY BLVD	38.020700899	-84.4889405941
HLX-814	H814	921	HIGHLAND PARK DR	38.0541187455	-84.4742039484
HLX-815	H815	1121	COOPER DR	38.0188750037	-84.4882260876
HLX-817	H817	910	GEORGETOWN ST	38.0716779179	-84.504900138
HLX-818	H818	140	GLENN PL	38.0572482778	-84.4789236663
HLX-819	H819	401	PARK VIEW AVE	38.0559099938	-84.4722829919
HLX-820	H820	100	RUSSELL CAVE RD	38.062674367	-84.4845462118
HLX-821	H821	901	N BROADWAY	38.060706462	-84.483142357
HLX-822	H822	1030	MCCLAIN DR	38.062812793	-84.4820285718
HLX-823	H823	555	HASKINS DR	38.0671358838	-84.4995898209
HLX-825	H825	721	HEADLEY AVE	38.0601780062	-84.4867224201
HLX-826	H826	777	N BROADWAY	38.0593530037	-84.4851331432
HLX-837	H837	970	CARNEAL RD	38.0544444774	-84.4674844369
HLX-838	H838	928	CARNEAL RD	38.0532934109	-84.4684996203
HLX-840	H840	837	MARCELLUS DR	38.0505550436	-84.4703405027
HLX-841	H841	663	E LOUDON AVE	38.0493928401	-84.4716936683
HLX-842	H842	923	JOURNAL AVE	38.0319893933	-84.5139441966
HLX-843	H843	201	CONN TER	38.031326114	-84.5122943993
HLX-844	H844	145	ST JAMES DR	38.0206321774	-84.4636327439
HLX-845	H845	10	IDLE HOUR DR	38.0216233563	-84.4684355722
HLX-846	H846	159	IDLE HOUR DR	38.0233077636	-84.466152379
HLX-847	H847	196	IDLE HOUR DR	38.0242087605	-84.4648154595
HLX-848	H848	262	IDLE HOUR DR	38.0258707982	-84.4625400404
HLX-849	H849	142	ST MARGARET DR	38.0221262053	-84.4652806512
HLX-850	H850	2029	COBURN BLVD	38.021258237	-84.4664997926
HLX-851	H851	145	ST WILLIAMS DR	38.0214413842	-84.4644253302
HLX-852	H852	2053	COBURN BLVD	38.0205238119	-84.4657090856
HLX-853	H853	118	ST JAMES DR	38.0197762511	-84.4648378931
HLX-854	H854	146	ST ANN DR	38.0198509104	-84.4626135738
HLX-855	H855	118	ST ANN DR	38.0189381524	-84.4638841877
HLX-856	H856	118	ST PHILLIP DR	38.0182818639	-84.4631501968

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-857	H857	146	ST PHILLIP DR	38.0191718492	-84.4618624941
HLX-858	H858	329	GARDEN RD	38.0195064745	-84.4847655876
HLX-859	H859	30	ROMANY RD	38.0207733522	-84.4853890364
HLX-860	H860	321	ROMANY RD	38.0199238824	-84.485838203
HLX-861	H861	361	ROMANY RD	38.0190768762	-84.4862281392
HLX-862	H862	1201	COOPER DR	38.0182678492	-84.486733968
HLX-863	H863	631	COOPER DR	38.0243648718	-84.4984598732
HLX-864	H864	90	RUSSELL CAVE RD	38.0613614269	-84.4846942982
HLX-865	H865	1832	RICHMOND RD	38.0247610992	-84.4724794193
HLX-866	H866	1310	RICHMOND RD	38.0306157253	-84.4793779174
HLX-867	H867	1636	RICHMOND RD	38.0279256466	-84.4760431771
HLX-868	H868	1701	CLAYS SPRING LN	38.0240262726	-84.4757478325
HLX-869	H869	1717	CLAYS SPRING LN	38.023376245	-84.4747785297
HLX-870	H870	201	CHINOE RD	38.0247142681	-84.4770751572
HLX-871	H871	239	CHINOE RD	38.0236726456	-84.4792388654
HLX-872	H872	30	CULPEPPER RD	38.0224509515	-84.4782562082
HLX-873	H873	1744	RICHMOND RD	38.0263093202	-84.4746906655
HLX-874	H874	80	DARLEY DR	38.048727899	-84.4708105732
HLX-875	H875	435	BAMBERGER RD	38.0698781759	-84.509135443
HLX-876	H876	440	TIBBS LN	38.069528517	-84.5081926369
HLX-877	H877	439	PRICE RD	38.069001847	-84.5075073795
HLX-878	H878	189	ST MARGARET DR	38.0239323179	-84.4630039681
HLX-879	H879	2042	ST MATHILDA DR	38.0232928476	-84.4622144406
HLX-880	H880	194	ST ANN DR	38.0212002895	-84.4605451103
HLX-881	H881	904	LIBERTY RD	38.0415337083	-84.4698709713
HLX-882	H882	210	CASTLEWOOD DR	38.054969452	-84.4770383523
HLX-883	H883	2128	ST MATHILDA DR	38.0221110251	-84.4611846317
HLX-884	H884	225	CLINTON RD	38.0220198256	-84.4769072225
HLX-885	H885	301	ADAIR RD	38.0209045583	-84.4755503864
HLX-886	H886	312	CLINTON RD	38.0208461145	-84.4774493522
HLX-887	H887	213	CLINTON RD	38.022540803	-84.4758044129
HLX-888	H888	1945	FONTAINE RD	38.0198317794	-84.4734956456
HLX-889	H889	280	CASTLEWOOD DR	38.0527041927	-84.4746742443
HLX-890	H890	929	IDLEWILD CT	38.0534148127	-84.4732797832

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-891	H891	914	OAK HILL DR	38.0528604166	-84.4723715738
HLX-892	H892	1118	OAK HILL DR	38.0547123888	-84.4695739595
HLX-893	H893	749	MT VERNON DR	38.0247710168	-84.4923591545
HLX-894	H894	744	BERRY LN	38.0240995434	-84.493198163
HLX-895	H895	741	PROVIDENCE RD	38.0233046598	-84.4938887761
HLX-896	H896	70	MT VERNON DR	38.0259710024	-84.4948833207
HLX-897	H897	70	BERRY LN	38.0252673764	-84.4955634289
HLX-898	H898	696	PROVIDENCE RD	38.0246086501	-84.4965451483
HLX-899	H899	673	BERRY LN	38.026043047	-84.4970938393
HLX-900	H900	660	PROVIDENCE RD	38.0253606098	-84.4979477526
HLX-901	H901	1453	TATES CREEK RD	38.0226538254	-84.4923824748
HLX-902	H902	672	MT VERNON DR	38.0268051294	-84.4964893351
HLX-903	H903	224	ST MARGARET DR	38.0247656373	-84.4618423728
HLX-904	H904	257	ST MARGARET DR	38.0258739939	-84.4604536384
HLX-905	H905	2053	ST CHRISTOPHER DR	38.024276924	-84.4592949177
HLX-906	H906	236	ST ANN DR	38.021722422	-84.4583471879
HLX-907	H907	424	CLINTON RD	38.019004134	-84.4787655458
HLX-908	H908	540	CLINTON RD	38.0165613838	-84.4802388655
HLX-909	H909	201	HART RD	38.0252747323	-84.4895607524
HLX-910	H910	941	WINCHESTER RD	38.0420070688	-84.4681777467
HLX-911	H911	1760	NICHOLASVILLE RD	38.018693632	-84.5141035811
HLX-912	H912	1610	NICHOLASVILLE RD	38.0219392475	-84.512725658
HLX-913	H913	1680	MERCER RD	38.0759541243	-84.5251243906
HLX-914	H914	434	HARBISON RD	38.0773313053	-84.524993374
HLX-915	H915	479	HARBISON RD	38.0792189361	-84.524659914
HLX-916	H916	1695	BAUMANN RD	38.0803022769	-84.5240308813
HLX-917	H917	1667	BAUMANN RD	38.0798509451	-84.5223624152
HLX-918	H918	1601	BAUMANN RD	38.0792045512	-84.5212761993
HLX-919	H919	436	FAIRMAN RD	38.0772060355	-84.521663843
HLX-920	H920	420	FAIRMAN RD	38.0757280953	-84.5219167358
HLX-921	H921	1267	SCOVILLE RD	38.0225331602	-84.499958061
HLX-922	H922	130	W LOUDON AVE	38.0588475937	-84.4834511179
HLX-923	H923	2012	ST TERESA DR	38.0259475409	-84.4595442227
HLX-924	H924	2056	ST TERESA DR	38.0244965004	-84.4586056727

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-925	H925	2112	ST TERESA DR	38.0225712276	-84.457977003
HLX-926	H926	2201	YOUNG DR	38.025730672	-84.4561651208
HLX-927	H927	2225	YOUNG DR	38.0251653519	-84.4554351678
HLX-929	H929	941	DE PORRES AVE	38.0708709995	-84.5086933345
HLX-930	H930	977	DE PORRES AVE	38.0722740615	-84.5093500416
HLX-931	H931	494	ERIE RD	38.0729191624	-84.5110633094
HLX-932	H932	949	LUCY LN	38.0716549979	-84.5100903037
HLX-933	H933	953	WAVERLY DR	38.0710198156	-84.5111869787
HLX-934	H934	1335	PRATHER RD	38.015687544	-84.4787401279
HLX-935	H935	1913	HART RD	38.0198902134	-84.4762387448
HLX-936	H936	401	BRISTOL RD	38.0188558661	-84.4750570326
HLX-937	H937	420	BRISTOL RD	38.0177693559	-84.4761863478
HLX-938	H938	1221	S BROADWAY	38.0353938571	-84.520977973
HLX-939	H939	437	PARKWAY DR	38.0348591818	-84.5219696475
HLX-940	H940	520	ANGLIANA AVE	38.0454200417	-84.5150723989
HLX-941	H941	105	GAINESWAY DR	37.9878177979	-84.4929416922
HLX-942	H942	3503	WILLOWOOD RD	37.9851220934	-84.4898322843
HLX-943	H943	3512	WILLOWOOD RD	37.98390596	-84.49076732
HLX-944	H944	3520	WILLOWOOD RD	37.9831607823	-84.4912984579
HLX-945	H945	3506	DANADA DR	37.9839048753	-84.4894280209
HLX-946	H946	3520	DANADA DR	37.9825325033	-84.4903985005
HLX-947	H947	3516	GREENTREE RD	37.983889627	-84.4882772188
HLX-948	H948	3526	GREENTREE RD	37.98291432	-84.4887872903
HLX-949	H949	3546	GREENTREE RD	37.981444991	-84.4898783365
HLX-950	H950	200	ST MICHAEL DR	38.0266838066	-84.4592151482
HLX-951	H951	2048	ST MICHAEL DR	38.0252966698	-84.4578202236
HLX-952	H952	2112	ST MICHAEL DR	38.0240706501	-84.4575123817
HLX-953	H953	2128	WILL FANT DR	38.0242124728	-84.4564051084
HLX-954	H954	274	ST ANN DR	38.0228578919	-84.4570539867
HLX-955	H955	1907	VERSAILLES RD	38.0483209509	-84.5394140607
HLX-956	H956	116	LONDONDERRY DR	38.0498345722	-84.5397255973
HLX-957	H957	130	LONDONDERRY DR	38.0512742007	-84.5399418946
HLX-958	H958	1350	S BROADWAY	38.0336546521	-84.5232952725
HLX-959	H959	0	ST MARGARET DR	38.0207760173	-84.4670924031

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-960	H960	0	ST ANN DR	38.0185966223	-84.4646702774
HLX-961	H961	1921	OXFORD CIR	38.0498884033	-84.5424394438
HLX-962	H962	129	CHANTILLY ST	38.052734012	-84.5435870173
HLX-963	H963	139	CHANTILLY ST	38.0531544866	-84.5423308653
HLX-964	H964	147	RUGBY RD	38.0522706333	-84.5416664767
HLX-965	H965	159	CHANTILLY ST	38.0548760497	-84.541229776
HLX-966	H966	1921	DUNKIRK DR	38.0564668942	-84.5398350813
HLX-967	H967	1909	PICADILLY ST	38.0536297951	-84.5403823386
HLX-968	H968	150	LONDONDERRY DR	38.05312353	-84.5393893741
HLX-969	H969	214	LONDONDERRY DR	38.0542612698	-84.5384499977
HLX-970	H970	230	LONDONDERRY DR	38.0554487629	-84.5377471639
HLX-971	H971	201	SAVOY RD	38.0530850364	-84.5379882295
HLX-972	H972	233	SAVOY RD	38.0542571515	-84.5373504571
HLX-973	H973	221	GARRETT AVE	38.0531810221	-84.536125659
HLX-974	H974	1665	BRITTANY LN	38.0538994694	-84.5357251604
HLX-975	H975	1629	BRITTANY LN	38.0531205718	-84.5341539836
HLX-976	H976	350	NEWPORT DR	37.9875551437	-84.4896470706
HLX-977	H977	3513	NEWPORT DR	37.9862732698	-84.4911731421
HLX-978	H978	1038	CLAIBORNE WAY	37.9856183236	-84.4871978921
HLX-979	H979	1014	CASTLETON WAY	37.9863626332	-84.4921502477
HLX-980	H980	3508	ARDEN PL	37.9874221043	-84.4911970031
HLX-981	H981	1017	GAINESWAY DR	37.9889507869	-84.4908177137
HLX-982	H982	1021	WHITEHALL PL	37.9861131082	-84.4898732403
HLX-983	H983	1024	CLAIBORNE WAY	37.9867272565	-84.4885500722
HLX-984	H984	1036	WHITEHALL PL	37.985336603	-84.4883275173
HLX-985	H985	3489	CASTLETON HILL	37.9887794895	-84.4927097499
HLX-986	H986	1601	ASHWOOD DR	38.027984021	-84.4789896709
HLX-987	H987	229	12TH ST	38.064189384	-84.4817900781
HLX-989	H989	1213	WINCHESTER RD	38.0428489581	-84.4595188947
HLX-990	H990	1013	INDUSTRY RD	38.043315353	-84.4603631844
HLX-991	H991	1275	EASTLAND DR	38.0459666239	-84.4563110216
HLX-992	H992	1350	EASTLAND DR	38.0459250428	-84.4548475672
HLX-993	H993	3474	GREENTREE RD	37.986588839	-84.4854595083
HLX-994	H994	3446	GREENTREE RD	37.98768	-84.48417

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-995	H995	3414	GREENTREE RD	37.9888580842	-84.4827738061
HLX-996	H996	903	ROYAL AVE	38.04274	-84.46981
HLX-997	H997	201	HILLCREST AVE	38.0429550196	-84.467794229
HLX-998	H998	30	HILLCREST AVE	38.0443469765	-84.4677133779
HLX-999	H999	801	SHELBY AVE	38.0442411724	-84.4686121935
HLX-1000	H1000	1111	WINCHESTER RD	38.0424284293	-84.4637437981
HLX-1001	H1001	1107	WINCHESTER RD	38.042333214	-84.4647181486
HLX-1002	H1002	856	E 7TH ST	38.042227833	-84.4707013874
HLX-1003	H1003	700	ALLENDALE RD	38.0272235536	-84.5341997627
HLX-1004	H1004	651	LANE ALLEN RD	38.0264123826	-84.5346033937
HLX-1005	H1005	660	MITCHELL AVE	38.0246547906	-84.5351567254
HLX-1006	H1006	2001	HARRODSBURG RD	38.0265855769	-84.5352775416
HLX-1007	H1007	2025	HARRODSBURG RD	38.026068366	-84.5362187982
HLX-1008	H1008	2099	HARRODSBURG RD	38.0255310624	-84.5372658367
HLX-1009	H1009	2018	DORSET DR	38.0534394432	-84.5451851786
HLX-1010	H1010	215	RUGBY RD	38.0548133062	-84.5396174141
HLX-1011	H1011	101	N BROADWAY	38.061506576	-84.4820193452
HLX-1012	H1012	1118	N BROADWAY	38.0627945396	-84.4801844249
HLX-1013	H1013	1705	NICHOLASVILLE RD	38.0201122642	-84.5136723592
HLX-1014	H1014	1255	EASTLAND DR	38.0457515135	-84.4575966922
HLX-1015	H1015	1142	EASTLAND DR	38.0464661832	-84.461317453
HLX-1016	H1016	1077	EASTLAND DR	38.0463074067	-84.4624133195
HLX-1017	H1017	1084	EASTLAND DR	38.045957505	-84.4629974823
HLX-1018	H1018	2171	YOUNG DR	38.0271861758	-84.4576011101
HLX-1019	H1019	2155	YOUNG DR	38.027793347	-84.4582037198
HLX-1020	H1020	821	PORTER PL	38.0485399543	-84.5171805122
HLX-1021	H1021	1922	CAMBRIDGE DR	38.0500917799	-84.5444167893
HLX-1022	H1022	229	MANDALAY RD	38.0552495151	-84.5431451719
HLX-1023	H1023	1926	DEAUVILLE DR	38.052014633	-84.5450345392
HLX-1024	H1024	101	ELMENDORF DR	37.9898458548	-84.4896566619
HLX-1025	H1025	107	ELMENDORF DR	37.9890797505	-84.4890771883
HLX-1026	H1026	80	FLOYD DR	38.0475	-84.46679
HLX-1027	H1027	852	FLOYD DR	38.047594015	-84.4661999493
HLX-1028	H1028	1876	DUNKIRK DR	38.0547056562	-84.5357181581

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1029	H1029	1860	DUNKIRK DR	38.0539985297	-84.5342634038
HLX-1030	H1030	172	DELMONT DR	38.0529614744	-84.5322119913
HLX-1031	H1031	136	DELMONT DR	38.0524014145	-84.5292830271
HLX-1032	H1032	1150	INDUSTRY RD	38.0475793565	-84.4594854782
HLX-1033	H1033	2255	EASTLAND PKY	38.049952065	-84.4377702028
HLX-1034	H1034	1610	FORT SUMTER DR	38.0503356663	-84.4426057577
HLX-1035	H1035	1622	AUBURN DR	38.049943584	-84.4393320111
HLX-1036	H1036	1703	SARASOTA CT	38.0514525717	-84.4377007909
HLX-1037	H1037	1610	AUBURN DR	38.0515790039	-84.4394017752
HLX-1039	H1039	1616	ATLANTA DR	38.0503882032	-84.440804958
HLX-1040	H1040	1042	ELMENDORF DR	37.9877980639	-84.4878580838
HLX-1041	H1041	1054	ELMENDORF DR	37.9868523052	-84.486903445
HLX-1042	H1042	3444	DIXIANA DR	37.9880336051	-84.4851798394
HLX-1043	H1043	1153	ARMSTRONG MILL RD	37.9797610754	-84.4878889975
HLX-1044	H1044	3598	OLYMPIA RD	37.9796905912	-84.4857114121
HLX-1045	H1045	3584	OLYMPIA RD	37.9804834985	-84.4870723346
HLX-1046	H1046	282	IDLE HOUR DR	38.0268824549	-84.4611419761
HLX-1047	H1047	857	CARNEAL RD	38.0517759033	-84.4705199493
HLX-1048	H1048	1949	DUNKIRK DR	38.0565656906	-84.541944658
HLX-1049	H1049	2028	DEAUVILLE DR	38.0529218836	-84.5463001091
HLX-1050	H1050	1907	WESTMINSTER DR	38.0511798388	-84.5413950714
HLX-1051	H1051	1622	RALEIGH RD	38.0526701008	-84.4419899733
HLX-1052	H1052	160	AUBURN DR	38.052982216	-84.4402773496
HLX-1053	H1053	1719	CHARLESTON CT	38.0509644955	-84.4359300723
HLX-1054	H1054	1703	CHARLESTON CT	38.0519994187	-84.436974768
HLX-1055	H1055	797	E NEW CIRCLE RD	38.0462848819	-84.4537752024
HLX-1056	H1056	1633	RALEIGH RD	38.0541729837	-84.4421498824
HLX-1057	H1057	1828	AUGUSTA DR	38.0548399118	-84.4411371891
HLX-1058	H1058	1607	RALEIGH RD	38.051451495	-84.4425155264
HLX-1059	H1059	180	BARWICK DR	38.0432295199	-84.4480574481
HLX-1060	H1060	1609	ATLANTA DR	38.0516472806	-84.440321836
HLX-1061	H1061	1079	E NEW CIRCLE RD	38.0356172449	-84.45384793
HLX-1062	H1062	102	BOYSENBERRY ST	38.0658415812	-84.5118759703
HLX-1063	H1063	3476	CASTLETON HILL	37.990050087	-84.4909614756

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1064	H1064	419	ADAIR RD	38.0183534497	-84.477501088
HLX-1065	H1065	1136	VENETIAN WAY	37.9816792257	-84.4876110174
HLX-1066	H1066	1160	VENETIAN WAY	37.9810547597	-84.4858361306
HLX-1067	H1067	1703	BILOXI CT	38.0525954998	-84.4363654983
HLX-1068	H1068	303	IDLE HOUR DR	38.0277192831	-84.4599598552
HLX-1069	H1069	170	E NEW CIRCLE RD	38.0632165181	-84.4682647369
HLX-1070	H1070	196	E NEW CIRCLE RD	38.0626449323	-84.4676720626
HLX-1071	H1071	305	NORTHLAND DR	38.0654916548	-84.4764171116
HLX-1072	H1072	105	LANE ALLEN RD	38.0322090074	-84.550025357
HLX-1073	H1073	2012	ALEXANDRIA DR	38.0309263311	-84.5495399254
HLX-1074	H1074	1033	CAMELLIA DR	38.0314260149	-84.551189093
HLX-1075	H1075	1052	CAMELLIA DR	38.0304726109	-84.550374056
HLX-1076	H1076	100	BALSAM DR	38.0293903154	-84.5504026135
HLX-1077	H1077	1028	JUNIPER DR	38.029207159	-84.5523915284
HLX-1078	H1078	219	SOUTHLAND DR	38.0133233727	-84.520601198
HLX-1079	H1079	801	MEADOW LN	38.048234811	-84.4697389612
HLX-1080	H1080	837	MEADOW LN	38.0491422697	-84.4686024872
HLX-1081	H1081	902	MEADOW LN	38.0515520434	-84.4963781793
HLX-1082	H1082	1033	MEADOW LN	38.0534008634	-84.4635571048
HLX-1083	H1083	1062	MEADOW LN	38.0540311107	-84.4625567445
HLX-1084	H1084	550	EMERSON DR	38.0555263482	-84.462440931
HLX-1085	H1085	1036	DARLEY DR	38.0543324427	-84.4639263322
HLX-1086	H1086	104	DARLEY DR	38.053369097	-84.4651201052
HLX-1087	H1087	924	DARLEY DR	38.052200883	-84.4665074974
HLX-1088	H1088	927	MARCELLUS DR	38.0526593445	-84.4677282064
HLX-1089	H1089	975	MARCELLUS DR	38.0538907674	-84.4663216594
HLX-1090	H1090	999	MARCELLUS DR	38.0544982244	-84.4655461914
HLX-1091	H1091	527	EMERSON DR	38.056368645	-84.4632384077
HLX-1092	H1092	1050	CARNEAL RD	38.0566287885	-84.4646026378
HLX-1093	H1093	1010	CARNEAL RD	38.0555986664	-84.4659999152
HLX-1094	H1094	437	EMERSON DR	38.0583229971	-84.4648928548
HLX-1095	H1095	505	CANE RUN RD	38.0715485933	-84.4728245403
HLX-1096	H1096	2089	VERSAILLES RD	38.0474518427	-84.5425775328
HLX-1097	H1097	2044	DORSET DR	38.0542300265	-84.54598969

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1098	H1098	105	NEWCASTLE ST	38.0551994546	-84.5478478785
HLX-1099	H1099	2064	DEAUVILLE DR	38.0539726056	-84.547731729
HLX-1100	H1100	209	LIVERPOOL DR	38.0558222027	-84.5467076092
HLX-1101	H1101	245	LIVERPOOL RD	38.0556745391	-84.5448512281
HLX-1102	H1102	1977	DUNKIRK DR	38.0565784687	-84.5438931308
HLX-1103	H1103	1879	ALEXANDRIA DR	38.0364924977	-84.5516662781
HLX-1104	H1104	654	GAY PL	38.0519778245	-84.4609098398
HLX-1105	H1105	408	SANDALWOOD DR	38.0641657402	-84.4497355702
HLX-1106	H1106	617	HI CREST DR	38.0579708449	-84.4484808034
HLX-1107	H1107	437	ANNISTON DR	38.0647344887	-84.4476719998
HLX-1108	H1108	221	NEWCASTLE CT	38.0566307506	-84.5455353697
HLX-1109	H1109	1212	VERSAILLES RD	38.0499367031	-84.5190543619
HLX-1110	H1110	209	OLEANDER DR	38.0296270965	-84.5487496163
HLX-1111	H1111	911	TEAROSE DR	38.0289493119	-84.5468678345
HLX-1112	H1112	208	TAMARACK DR	38.02855342	-84.5452709263
HLX-1113	H1113	916	HONEYSUCKLE RD	38.0296838018	-84.5466307017
HLX-1114	H1114	200	LARKSPUR DR	38.0285127396	-84.5435138432
HLX-1115	H1115	512	GIBSON AVE	38.0381770146	-84.5218880706
HLX-1116	H1116	560	DOVER RD	38.0757613045	-84.470881779
HLX-1117	H1117	549	GRANTCHESTER ST	38.0746010994	-84.4713178446
HLX-1118	H1118	316	E NEW CIRCLE RD	38.0595058763	-84.4645424857
HLX-1119	H1119	120	E NEW CIRCLE RD	38.0321333807	-84.4527866945
HLX-1120	H1120	1808	ALEXANDRIA DR	38.0373484558	-84.5522196753
HLX-1121	H1121	1777	ALEXANDRIA DR	38.0382722387	-84.5526091292
HLX-1122	H1122	1866	MANASSAS DR	38.0359792949	-84.5522743297
HLX-1123	H1123	1053	CROSS KEYS RD	38.0399969932	-84.5500560965
HLX-1124	H1124	849	DARLEY DR	38.0499240202	-84.4692963621
HLX-1125	H1125	409	MEADOW PK	38.0584517813	-84.4669272559
HLX-1126	H1126	426	MEADOW PK	38.0576750202	-84.4662500546
HLX-1127	H1127	136	SOUTHLAND DR	38.0122074125	-84.5188855919
HLX-1128	H1128	1524	CANTRILL DR	38.0500101114	-84.4487054514
HLX-1129	H1129	545	CANE RUN RD	38.074080515	-84.4727775405
HLX-1131	H1131	1101	MEADOW LN	38.0550382779	-84.4617273821
HLX-1132	H1132	639	EMERSON DR	38.0536116781	-84.4602248169

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1133	H1133	138	WABASH DR	38.0163879102	-84.5193233669
HLX-1134	H1134	70	DOBBIN RD	38.0109425681	-84.50024333
HLX-1136	H1136	1839	BELLEFONTE DR	38.0134607058	-84.5023767964
HLX-1137	H1137	1792	DARIEN DR	38.0376496888	-84.5537822768
HLX-1138	H1138	2378	ALLEN DR	38.086410493	-84.4516301791
HLX-1139	H1139	2725	TATES CREEK RD	38.0885787802	-84.4528525131
HLX-1140	H1140	10	SOUTHLAND DR	38.0113266689	-84.5170860579
HLX-1141	H1141	1431	NICHOLASVILLE RD	38.0259394576	-84.5115825132
HLX-1143	H1143	663	KINGSTON RD	38.0897125473	-84.4522642028
HLX-1144	H1144	444	FAIRMAN RD	38.0781222619	-84.5214971812
HLX-1145	H1145	1393	BORDEAUX DR	38.046548979	-84.5571906162
HLX-1146	H1146	1855	NORFOLK DR	38.0153534696	-84.5169037179
HLX-1147	H1147	164	WABASH DR	38.0171179698	-84.5211072082
HLX-1148	H1148	206	LACKAWANNA RD	38.0160929912	-84.5204971192
HLX-1149	H1149	108	LACKAWANNA RD	38.014336299	-84.5170954148
HLX-1150	H1150	128	LACKAWANNA RD	38.0153549205	-84.5186851858
HLX-1151	H1151	107	GOODRICH AVE	38.0137039166	-84.5174886029
HLX-1152	H1152	129	GOODRICH AVE	38.0144312682	-84.5189836097
HLX-1153	H1153	149	GOODRICH AVE	38.0151503512	-84.5205079735
HLX-1154	H1154	165	GOODRICH AVE	38.0157333845	-84.5216832026
HLX-1155	H1155	675	HI CREST DR	38.0560157131	-84.4463440491
HLX-1156	H1156	1504	CLARKSDALE CT	38.051006409	-84.4468571605
HLX-1157	H1157	1358	BORDEAUX DR	38.0480001132	-84.5568935011
HLX-1158	H1158	2370	LE HAVRE RD	38.0477251285	-84.5555574323
HLX-1159	H1159	2401	SEINE RD	38.0497002536	-84.5555498388
HLX-1160	H1160	2430	SEINE RD	38.0493922671	-84.5575059581
HLX-1161	H1161	299	SOUTHLAND DR	38.0151206064	-84.5225175749
HLX-1162	H1162	259	SOUTHLAND DR	38.0142651551	-84.5214627102
HLX-1163	H1163	230	PLAZA DR	38.0139854894	-84.5200588985
HLX-1164	H1164	1837	BRYAN STATION RD	38.06379	-84.45282
HLX-1165	H1165	1733	N BROADWAY	38.070001763	-84.467359359
HLX-1166	H1166	748	DOBBIN RD	38.0096563692	-84.4993153712
HLX-1167	H1167	1618	TATES CREEK RD	38.0184486678	-84.4950394111
HLX-1168	H1168	748	RAINTREE RD	38.0105203259	-84.4974226658

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1169	H1169	627	TATESWOOD DR	38.0133455643	-84.4998874246
HLX-1170	H1170	601	BEECHMONT RD	38.0117776795	-84.5023921172
HLX-1171	H1171	1882	BELLEFONTE DR	38.0099130463	-84.5026297333
HLX-1172	H1172	601	ADCOLOR DR	38.0721965768	-84.4964863563
HLX-1173	H1173	970	W NEW CIRCLE RD	38.0749255337	-84.4991052894
HLX-1174	H1174	483	SANDALWOOD DR	38.0625551038	-84.448071442
HLX-1175	H1175	533	SANDALWOOD DR	38.0629397537	-84.4461431562
HLX-1176	H1176	446	MOSS DR	38.0634900591	-84.4476610952
HLX-1177	H1177	461	ANNISTON DR	38.0645224832	-84.445801676
HLX-1178	H1178	1214	S BROADWAY	38.0362052606	-84.5197459686
HLX-1180	H1180	628	KINGSTON RD	38.0880545678	-84.4511379203
HLX-1181	H1181	2059	GEORGIAN WAY	38.0329572458	-84.5566057617
HLX-1182	H1182	2087	GEORGIAN WAY	38.0309377196	-84.5576998729
HLX-1183	H1183	2099	GEORGIAN WAY	38.030108319	-84.5581984307
HLX-1184	H1184	517	E NEW CIRCLE RD	38.0539117181	-84.4586790741
HLX-1185	H1185	210	OLEANDER DR	38.0278925749	-84.5512072776
HLX-1186	H1186	2133	OLEANDER DR	38.0284314688	-84.5531664269
HLX-1187	H1187	2219	OLEANDER CT	38.0273804475	-84.5526253312
HLX-1188	H1188	2124	GARDEN SPRINGS DR	38.0250479715	-84.5471641905
HLX-1189	H1189	2056	DOGWOOD DR	38.0262067996	-84.5468992225
HLX-1190	H1190	2016	DOGWOOD DR	38.0278667166	-84.5464927196
HLX-1191	H1191	525	WALLER AVE	38.0328118937	-84.5224401778
HLX-1192	H1192	409	WALLER AVE	38.0321268796	-84.5217000011
HLX-1193	H1193	1708	CANTRILL DR	38.0459858103	-84.4460743066
HLX-1194	H1194	1611	CANTRILL DR	38.0479554206	-84.445759916
HLX-1195	H1195	176	W NEW CIRCLE RD	38.0671233835	-84.4724517485
HLX-1196	H1196	1026	MANCHESTER ST	38.0539759139	-84.5121843799
HLX-1197	H1197	651	MAGNOLIA AVE	38.0444349384	-84.4735558732
HLX-1198	H1198	757	NEWTOWN PIKE	38.0678685805	-84.4982307516
HLX-1200	H1200	1059	E NEW CIRCLE RD	38.0372478221	-84.4541465686
HLX-1201	H1201	2024	LARKSPUR DR	38.0274556779	-84.5440400296
HLX-1202	H1202	2028	OLEANDER DR	38.0288931297	-84.54936015
HLX-1203	H1203	210	WINTERBERRY DR	38.0264298786	-84.5507157922
HLX-1204	H1204	491	ANNISTON DR	38.0642349635	-84.4440143061

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1205	H1205	541	GLENBROOK ST	38.0627832126	-84.4435875309
HLX-1206	H1206	1968	BRYNELL DR	38.0615242815	-84.4426958758
HLX-1207	H1207	1998	BRYNELL DR	38.0619157728	-84.4410938733
HLX-1208	H1208	545	ANNISTON DR	38.0633208278	-84.442246171
HLX-1209	H1209	219	MANDALAY RD	38.054766751	-84.5442345139
HLX-1210	H1210	1513	NICHOLASVILLE RD	38.0243239082	-84.512120101
HLX-1211	H1211	913	GEORGETOWN ST	38.072204795	-84.5052370161
HLX-1212	H1212	1601	HAWTHORNE LN	38.0728233129	-84.4748009525
HLX-1213	H1213	2328	ALLEN DR	38.0864229893	-84.4540155673
HLX-1214	H1214	654	ROGERS RD	38.0885245795	-84.4553162506
HLX-1215	H1215	664	MARSHALL LN	38.0887221183	-84.4542771343
HLX-1216	H1216	628	MARSHALL LN	38.0874344266	-84.4533418991
HLX-1217	H1217	587	KINGSTON RD	38.0866769128	-84.4503054309
HLX-1218	H1218	1515	MERCER RD	38.0750671215	-84.5146384839
HLX-1219	H1219	1515	MERCER RD	38.0749396543	-84.5132770304
HLX-1220	H1220	1515	MERCER RD	38.07486	-84.51293
HLX-1221	H1221	417	ROOKWOOD PKY	38.0606149088	-84.4599270586
HLX-1222	H1222	1732	GLENEAGLES DR	38.0600352727	-84.4582484047
HLX-1223	H1223	465	ROOKWOOD PKY	38.0586631325	-84.4581049428
HLX-1224	H1224	1099	S BROADWAY	38.0369102659	-84.5186681484
HLX-1225	H1225	1702	BRYAN STATION RD	38.0611401468	-84.4605784207
HLX-1226	H1226	402	MCKENNA CT	38.0622577495	-84.4570906452
HLX-1227	H1227	413	MCKENNA CT	38.0611842599	-84.4567424797
HLX-1228	H1228	2275	NICHOLASVILLE RD	38.0070018035	-84.5185087666
HLX-1229	H1229	573	NORTHSIDE DR	38.0600552377	-84.4470174918
HLX-1230	H1230	1928	BRYNELL DR	38.0609195699	-84.4452773069
HLX-1231	H1231	641	LOMBARDY DR	38.0595132917	-84.4442418054
HLX-1232	H1232	1906	GREENLEAF DR	38.0583880746	-84.4418900762
HLX-1233	H1233	1601	JENNIFER RD	38.0475700319	-84.4498313135
HLX-1234	H1234	1548	CANTRILL DR	38.0495047119	-84.4472516611
HLX-1235	H1235	3498	TATES CREEK RD	37.9876335464	-84.4940804739
HLX-1236	H1236	2033	GARDEN SPRINGS DR	38.028690094	-84.5424025949
HLX-1237	H1237	2057	GARDEN SPRINGS DR	38.0272633218	-84.543207303
HLX-1238	H1238	2083	GARDEN SPRINGS DR	38.0260353699	-84.5444208829

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1239	H1239	2052	TAMARACK DR	38.0267358615	-84.5457359473
HLX-1240	H1240	2101	GARDEN SPRINGS DR	38.0252223642	-84.5456742591
HLX-1241	H1241	2164	GARDEN SPRINGS DR	38.0255302755	-84.5491422017
HLX-1242	H1242	2033	DUNKIRK DR	38.057781556	-84.5463101136
HLX-1243	H1243	1941	CAMBRIDGE DR	38.0508360801	-84.5454548465
HLX-1244	H1244	2136	AZALEA DR	38.0235369925	-84.5482552456
HLX-1245	H1245	2115	JASMINE DR	38.0244074743	-84.5487539597
HLX-1246	H1246	2133	LARKSPUR DR	38.0246447194	-84.5431624474
HLX-1247	H1247	862	ASTER RD	38.0221586625	-84.5483577937
HLX-1248	H1248	2315	HARRODSBURG RD	38.0229572433	-84.5416325913
HLX-1249	H1249	2184	CYPRESS DR	38.0230764691	-84.5426812002
HLX-1250	H1250	2132	TAMARACK DR	38.02417886	-84.54386585
HLX-1251	H1251	2152	CYPRESS DR	38.0230619755	-84.5445713921
HLX-1252	H1252	210	VIOLET RD	38.0242350305	-84.5459707849
HLX-1253	H1253	2124	VIOLET RD	38.0233756053	-84.5470463207
HLX-1254	H1254	2228	JASMINE DR	38.0252379811	-84.5506456742
HLX-1255	H1255	3401	SPENDTHRIFT CT	37.9895615542	-84.4866563589
HLX-1256	H1256	1102	SPENDTHRIFT RD	37.9903546125	-84.4877355122
HLX-1257	H1257	295	SCOTT ST	38.0405001236	-84.5083084522
HLX-1258	H1258	1114	INDUSTRY RD	38.0471370547	-84.4599860222
HLX-1259	H1259	1157	COMMERCIAL DR	38.0470010242	-84.4575367467
HLX-1260	H1260	366	WALLER AVE	38.0301083041	-84.518551618
HLX-1261	H1261	347	WALLER AVE	38.0297729277	-84.5176628913
HLX-1262	H1262	1601	MARTHA CT	38.0481186807	-84.4490405661
HLX-1263	H1263	1545	MEADE CT	38.0488254007	-84.4512150074
HLX-1264	H1264	255	E NEW CIRCLE RD	38.0612621213	-84.4658276057
HLX-1265	H1265	1507	ANNISTON DR	38.0548948589	-84.4369625419
HLX-1266	H1266	2011	MOBILE CT	38.0562791639	-84.4351200326
HLX-1267	H1267	208	MEMPHIS CT	38.0548391026	-84.4349635497
HLX-1268	H1268	2047	GAINESVILLE CT	38.0540689573	-84.4332605847
HLX-1269	H1269	2063	NEW ORLEANS DR	38.0528705327	-84.4341546177
HLX-1270	H1270	2036	NEW ORLEANS DR	38.0532276639	-84.4321417635
HLX-1271	H1271	1718	NEW ORLEANS CT	38.0519037165	-84.434832861
HLX-1272	H1272	1812	BIMINI RD	38.0122764344	-84.5004006995

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1273	H1273	2044	FALLON RD	38.0337030426	-84.5595105351
HLX-1274	H1274	2072	FALLON RD	38.031952073	-84.560427574
HLX-1275	H1275	2073	WILLIAMSBURG RD	38.03031135	-84.5615759821
HLX-1276	H1276	1053	PINE BLOOM DR	38.0274547148	-84.5594024445
HLX-1277	H1277	1850	MERCER RD	38.0783673094	-84.5332413636
HLX-1278	H1278	1952	MERCER RD	38.0785475836	-84.5336739302
HLX-1279	H1279	2339	VERSAILLES RD	38.0467557542	-84.5543395054
HLX-1281	H1281	531	ROGERS RD	38.0849067104	-84.4526068949
HLX-1282	H1282	1821	WAYLAND DR	38.0620149035	-84.4524810849
HLX-1283	H1283	311	HOLIDAY RD	38.0291701805	-84.4700106405
HLX-1284	H1284	1816	CANTRILL DR	38.0447594598	-84.4439448745
HLX-1285	H1285	1616	JENNIFER RD	38.0463833597	-84.4492501053
HLX-1286	H1286	1704	JENNIFER RD	38.0451418744	-84.449307187
HLX-1287	H1287	212	BARROW RD	38.0255500193	-84.4781990906
HLX-1288	H1288	1336	COOPER DR	38.0148928566	-84.4802006188
HLX-1289	H1289	731	COOPER DR	38.0232073782	-84.4960084534
HLX-1290	H1290	705	COOPER DR	38.0236504783	-84.4970026279
HLX-1291	H1291	1246	KASTLE RD	38.0225010351	-84.4978855174
HLX-1292	H1292	1280	KASTLE RD	38.0211011927	-84.4983191126
HLX-1293	H1293	1251	SUMMIT DR	38.0209470354	-84.4972064763
HLX-1294	H1294	760	MONTCLAIR DR	38.0204335156	-84.4958856942
HLX-1295	H1295	150	TATES CREEK RD	38.0217040947	-84.4930466154
HLX-1296	H1296	2144	JASMINE DR	38.0235129103	-84.5497350871
HLX-1297	H1297	2125	WINTERBERRY DR	38.0253950554	-84.551705274
HLX-1298	H1298	2125	TALISMAN RD	38.0245415979	-84.5500573541
HLX-1299	H1299	2192	JASMINE DR	38.0241806923	-84.5512970525
HLX-1300	H1300	200	EASTOVER DR	38.0212257801	-84.4916653982
HLX-1301	H1301	1169	INDIAN MOUND RD	38.0180576023	-84.4891355258
HLX-1302	H1302	636	MONTCLAIR DR	38.0215465121	-84.4997899332
HLX-1303	H1303	482	SHAFTSBURY RD	38.0566589761	-84.460204382
HLX-1304	H1304	815	NEWTOWN PIKE	38.0702802977	-84.497170868
HLX-1305	H1305	462	ERIE RD	38.0722696445	-84.5137387169
HLX-1306	H1306	962	ST MARTINS AVE	38.0709829756	-84.5132445222
HLX-1307	H1307	973	WAVERLY DR	38.0722623562	-84.5121007926

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1308	H1308	767	COOPER DR	38.022250142	-84.4946260513
HLX-1309	H1309	1388	FONTAINE RD	38.024922557	-84.4813240474
HLX-1310	H1310	401	DUDLEY RD	38.022521188	-84.48163926
HLX-1311	H1311	101	LAKWOOD DR	38.0188495838	-84.4930786026
HLX-1312	H1312	350	ANDOVER DR	38.0189221882	-84.4836309426
HLX-1313	H1313	426	ANDOVER DR	38.0162202149	-84.4851209288
HLX-1314	H1314	1395	LAKWOOD DR	38.0152240632	-84.4842486027
HLX-1315	H1315	1501	LAKWOOD DR	38.0134384173	-84.4802587892
HLX-1316	H1316	1316	COOPER DR	38.0156776754	-84.4818926558
HLX-1317	H1317	592	E NEW CIRCLE RD	38.0515506527	-84.457093915
HLX-1318	H1318	666	TATESWOOD DR	38.0119734727	-84.4980435669
HLX-1319	H1319	1687	N BROADWAY	38.0690596258	-84.4705464766
HLX-1320	H1320	1709	N BROADWAY	38.0694167197	-84.4695815045
HLX-1321	H1321	2412	LA ROCHELLE RD	38.0505477978	-84.5561665062
HLX-1322	H1322	2401	REIMS RD	38.053248307	-84.5555293446
HLX-1323	H1323	1282	BORDEAUX DR	38.0514709729	-84.555268234
HLX-1324	H1324	2437	REIMS RD	38.0536325496	-84.5578452814
HLX-1325	H1325	1968	GREENLEAF DR	38.0605270583	-84.4418331948
HLX-1326	H1326	1566	TATES CREEK RD	38.0196155229	-84.4944912304
HLX-1327	H1327	1167	LAKWOOD DR	38.0173226278	-84.4902500647
HLX-1328	H1328	1078	LAKWOOD DR	38.018163689	-84.4918742502
HLX-1329	H1329	2160	PALMS DR	38.026124566	-84.5524544572
HLX-1330	H1330	2129	PALMS DR	38.0270584029	-84.5537826667
HLX-1331	H1331	2251	WINTERBERRY DR	38.0282350756	-84.5541946224
HLX-1332	H1332	2207	WINTERBERRY DR	38.026714124	-84.5546332823
HLX-1333	H1333	210	LANSILL RD	38.0297345251	-84.554529031
HLX-1334	H1334	1926	KINGTREE CT	38.0583216921	-84.4433038331
HLX-1335	H1335	1963	KINGTREE DR	38.0596763697	-84.4416148979
HLX-1336	H1336	635	ROSEWOOD DR	38.058977095	-84.439817219
HLX-1337	H1337	630	ANNISTON DR	38.0607670001	-84.4400141396
HLX-1338	H1338	676	ANNISTON DR	38.0593878952	-84.4388093533
HLX-1339	H1339	437	ROOKWOOD PKY	38.0596097118	-84.4590355849
HLX-1340	H1340	1665	MARGATE DR	38.0576571589	-84.4597016488
HLX-1341	H1341	499	WANSTEAD WAY	38.0566226955	-84.4587147704

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1342	H1342	1730	RUSSELL CAVE RD	38.080153223	-84.4700302345
HLX-1343	H1343	616	LIN WAL RD	38.07916881	-84.4692468281
HLX-1344	H1344	1711	LEITH CT	38.0781967203	-84.4688444628
HLX-1345	H1345	568	LIN WAL RD	38.077564564	-84.4670820536
HLX-1346	H1346	1197	OAKWOOD DR	38.0825104792	-84.508893966
HLX-1347	H1347	1163	OAKWOOD DR	38.0828872916	-84.5071750182
HLX-1348	H1348	821	CEDARWOOD DR	38.0841605443	-84.5067131062
HLX-1349	H1349	50	BRYANWOOD PKY	38.0611549059	-84.4536934063
HLX-1350	H1350	1801	COURTLAND DR	38.0549801252	-84.4452474837
HLX-1351	H1351	1641	ASHWOOD RD	38.0259386983	-84.4762509439
HLX-1352	H1352	210	CHENAULT RD	38.0259782747	-84.4855749086
HLX-1353	H1353	851	PINKNEY DR	38.0433611634	-84.5317380752
HLX-1354	H1354	1497	PINE MEADOW RD	38.0438284916	-84.5353051774
HLX-1355	H1355	1461	PINE MEADOW RD	38.0442976372	-84.5334669351
HLX-1356	H1356	827	SUMMERSVILLE DR	38.042372031	-84.5302590278
HLX-1357	H1357	801	SUMMERSVILLE DR	38.0438652597	-84.5299135932
HLX-1358	H1358	865	SUMMERSVILLE DR	38.0424875286	-84.5319571779
HLX-1360	H1360	1795	FRANKFORT PIKE	38.0614205082	-84.5408765728
HLX-1361	H1361	0	OLD FRANKFORT PIKE	38.0611503403	-84.5400599431
HLX-1362	H1362	2479	HEATHER WAY	37.9990382695	-84.5103520278
HLX-1363	H1363	3328	BELLEFONTE DR	37.9987945478	-84.5089580797
HLX-1364	H1364	301	MELBOURNE WAY	38.0017051197	-84.5086099618
HLX-1365	H1365	2355	HEATHER WAY	38.0032464923	-84.5149812962
HLX-1366	H1366	2398	RANDOLPH CT	38.0025249609	-84.5139500599
HLX-1367	H1367	2423	HEATHER WAY	38.0003638089	-84.5132679817
HLX-1368	H1368	2443	HEATHER WAY	37.9997702284	-84.5119883451
HLX-1369	H1369	3301	BELLEFONTE DR	38.0005066467	-84.5094314137
HLX-1370	H1370	338	CURTIN DR	38.0012214229	-84.5112566197
HLX-1371	H1371	261	MELBOURNE WAY	38.0024480429	-84.5113893862
HLX-1372	H1372	2432	LARKIN RD	38.0017618438	-84.5129886793
HLX-1373	H1373	2398	HEATHER WAY	38.0012848148	-84.5145855937
HLX-1374	H1374	313	MELBOURNE WAY	38.0012501136	-84.5076893207
HLX-1375	H1375	329	MELBOURNE WAY	38.0009510344	-84.5062061088
HLX-1376	H1376	3304	NANTUCKET DR	37.9991100199	-84.5075708509

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1377	H1377	1580	ALEXANDRIA DR	38.0446250272	-84.5517976585
HLX-1378	H1378	2120	LANSILL RD	38.0289068034	-84.5549380124
HLX-1379	H1379	2160	LANSILL RD	38.0273945334	-84.5556866819
HLX-1380	H1380	996	PINE BLOOM DR	38.0259445851	-84.556979274
HLX-1381	H1381	2135	GEORGIAN WAY	38.0282208364	-84.559500227
HLX-1382	H1382	2115	GEORGIAN WAY	38.0291021284	-84.5587762944
HLX-1383	H1383	1743	ALEXANDRIA DR	38.0393766214	-84.5525730277
HLX-1384	H1384	1527	PARKERS MILL RD	38.0456786953	-84.5540937039
HLX-1385	H1385	1837	COURTLAND DR	38.0557372458	-84.4436968478
HLX-1386	H1386	397	HERMITAGE DR	38.0653538959	-84.4494314653
HLX-1387	H1387	344	HERMITAGE DR	38.0671039444	-84.4513390028
HLX-1388	H1388	1877	WICKLAND DR	38.0669424495	-84.4528189413
HLX-1389	H1389	1926	WICKLAND DR	38.0683104522	-84.4508480133
HLX-1390	H1390	1932	SPRING STATION DR	38.068048923	-84.4497308073
HLX-1391	H1391	1974	SPRING STATION DR	38.0680990264	-84.4485328338
HLX-1392	H1392	2057	SPRING STATION DR	38.066397826	-84.447855867
HLX-1393	H1393	1913	GLENGARRY WAY	38.0669639417	-84.4497170137
HLX-1394	H1394	540	LIN WAL RD	38.0765468324	-84.4659299094
HLX-1395	H1395	525	LIN WAL RD	38.0758906768	-84.4648578241
HLX-1396	H1396	1773	BREWER DR	38.0766297087	-84.4632380772
HLX-1397	H1397	542	RADCLIFFE RD	38.0772452674	-84.4644460309
HLX-1398	H1398	570	RADCLIFFE RD	38.0780274898	-84.4661191827
HLX-1399	H1399	606	RADCLIFFE RD	38.079270434	-84.4676948825
HLX-1400	H1400	2028	REBEL RD	38.0104151093	-84.519348076
HLX-1401	H1401	887	LANE ALLEN RD	38.0303765402	-84.5426683336
HLX-1402	H1402	897	LANE ALLEN RD	38.0305291386	-84.5440000689
HLX-1403	H1403	913	LANE ALLEN RD	38.0307877783	-84.5455390267
HLX-1404	H1404	1103	ATHENIA DR	38.0334186892	-84.5580403245
HLX-1405	H1405	2055	NASSAU RD	38.0319969119	-84.5588188692
HLX-1406	H1406	2078	NASSAU RD	38.0304802981	-84.559642548
HLX-1407	H1407	2091	WILLIAMSBURG RD	38.0290868995	-84.5606732102
HLX-1408	H1408	1127	GAINESWAY DR	37.9901970602	-84.4840931052
HLX-1409	H1409	1108	GAINESWAY DR	37.9906102095	-84.4862684268
HLX-1410	H1410	3328	HIGH HOPE RD	37.989965	-84.4779201988

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1411	H1411	3301	CROWN CREST RD	37.9912474077	-84.4786507105
HLX-1412	H1412	3303	SUTHERLAND DR	37.9913920749	-84.4773890716
HLX-1413	H1413	3325	CROWN CREST RD	37.9901394373	-84.4791267916
HLX-1414	H1414	3357	SUTHERLAND DR	37.9910500752	-84.4801829705
HLX-1415	H1415	3392	SUTHERLAND DR	37.9892516298	-84.4808639079
HLX-1416	H1416	3360	HIGH HOPE RD	37.9885369847	-84.4786540963
HLX-1417	H1417	1786	BRYAN STATION RD	38.0632956256	-84.454411745
HLX-1418	H1418	1950	AUGUSTA DR	38.0568129642	-84.4364568183
HLX-1419	H1419	1497	ANNISTON DR	38.0559083613	-84.4377293259
HLX-1420	H1420	1703	RALEIGH RD	38.05507617	-84.4431308903
HLX-1421	H1421	1507	DURHAM CT	38.0518708565	-84.4435979963
HLX-1422	H1422	471	STONEHAVEN DR	38.05747	-84.45827
HLX-1423	H1423	1697	HARROGATE RD	38.0565647506	-84.4568663673
HLX-1424	H1424	531	SHAFTSBURY RD	38.0551880847	-84.4583943351
HLX-1425	H1425	1665	HARROGATE RD	38.0547204314	-84.4569309849
HLX-1426	H1426	1641	HARROGATE RD	38.0536545599	-84.4560768218
HLX-1427	H1427	1601	HARROGATE RD	38.0523032455	-84.4546482957
HLX-1428	H1428	1713	JENNIFER RD	38.0442296721	-84.4487192684
HLX-1429	H1429	1850	EASTLAND PKY	38.0532335039	-84.4393027548
HLX-1430	H1430	1940	EASTLAND PKY	38.0537360291	-84.437978241
HLX-1431	H1431	723	TERRACE VIEW DR	38.0466382591	-84.535689226
HLX-1432	H1432	1081	INDUSTRY RD	38.0460735743	-84.4605323668
HLX-1433	H1433	438	LIMA DR	38.073742954	-84.5113272722
HLX-1434	H1434	486	LIMA DR	38.07369	-84.51013
HLX-1435	H1435	695	LACO DR	38.0629601084	-84.543497563
HLX-1436	H1436	641	LACO DR	38.0632963082	-84.5421402428
HLX-1437	H1437	656	BIZZELL DR	38.0642691334	-84.5415557378
HLX-1438	H1438	1114	OAKWOOD DR	38.0836088185	-84.5043857043
HLX-1439	H1439	1074	OAKWOOD DR	38.08497	-84.50414
HLX-1440	H1440	462	DOMINICAN DR	38.071331805	-84.5125245611
HLX-1441	H1441	1484	ETAWAH DR	38.0554037049	-84.4397548589
HLX-1442	H1442	1842	DALTON CT	38.0564159765	-84.4402456283
HLX-1443	H1443	1850	MARIETTA DR	38.0571052132	-84.4405971867
HLX-1444	H1444	1884	MARIETTA DR	38.0577963589	-84.4394434678

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1445	H1445	1436	ANNISTON DR	38.0583558132	-84.4380110232
HLX-1446	H1446	1469	ANNISTON DR	38.0570714693	-84.4383364253
HLX-1447	H1447	1457	HUNTSVILLE DR	38.0578930274	-84.4364031152
HLX-1448	H1448	857	SPARTA CT	38.0487018089	-84.5226572916
HLX-1449	H1449	1534	N LIMESTONE	38.0644195069	-84.4711824461
HLX-1450	H1450	1549	N LIMESTONE	38.065275432	-84.4703597536
HLX-1451	H1451	1236	CHERBOURG RD	38.0522848777	-84.5571679274
HLX-1452	H1452	1229	NICE DR	38.0522251984	-84.5587188849
HLX-1453	H1453	1281	NICE DR	38.0510683905	-84.5576593957
HLX-1454	H1454	588	E NEW CIRCLE RD	38.0523035956	-84.4576668201
HLX-1455	H1455	821	E LOUDON AVE	38.0450883971	-84.4665088539
HLX-1456	H1456	1050	EASTLAND DR	38.0453335779	-84.4640899459
HLX-1457	H1457	881	FLOYD DR	38.0481410931	-84.4650795669
HLX-1458	H1458	641	S LIMESTONE	38.0368083963	-84.507551918
HLX-1459	H1459	945	MURRAY DR	38.0436100528	-84.4567455879
HLX-1460	H1460	931	MURRAY DR	38.0444144265	-84.4564667876
HLX-1461	H1461	1424	AUDUBON AVE	38.0264142811	-84.5125000479
HLX-1462	H1462	480	HART RD	38.02398	-84.48426
HLX-1463	H1463	194	LOUISIANA AVE	38.0226998844	-84.4843682439
HLX-1464	H1464	1898	GAYLE DR	38.0483327449	-84.4419858267
HLX-1465	H1465	180	GAYLE DR	38.04881901	-84.440963331
HLX-1466	H1466	1840	GAYLE DR	38.0478721927	-84.439606106
HLX-1467	H1467	421	COCHRAN RD	38.0225581493	-84.4861229195
HLX-1468	H1468	401	COCHRAN RD	38.0233852074	-84.4876376453
HLX-1469	H1469	310	COCHRAN RD	38.0250864282	-84.4878156465
HLX-1470	H1470	422	HART RD	38.0248967443	-84.48562352
HLX-1471	H1471	210	W NEW CIRCLE RD	38.06843195	-84.4738926696
HLX-1472	H1472	389	WALLER AVE	38.0307527026	-84.5198433136
HLX-1473	H1473	1135	VERSAILLES RD	38.0498146631	-84.5175568713
HLX-1474	H1474	1230	MAN O WAR PL	38.0332333155	-84.5184802468
HLX-1475	H1475	405	WALLER AVE	38.0317790888	-84.5212517094
HLX-1476	H1476	1337	ROYALTY CT	38.0314905751	-84.518588501
HLX-1477	H1477	1502	BEACON HILL RD	38.0425680099	-84.5343388084
HLX-1478	H1478	1335	S BROADWAY	38.0340462719	-84.5231898282

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1479	H1479	1313	FRANKFORT PIKE	38.057747579	-84.5253593917
HLX-1480	H1480	1949	N BROADWAY	38.0742393925	-84.4592901414
HLX-1481	H1481	1971	N BROADWAY	38.0750495275	-84.4580963424
HLX-1482	H1482	1230	EASTLAND DR	38.0460227909	-84.4590609057
HLX-1483	H1483	1019	INDUSTRY RD	38.0443649493	-84.460361765
HLX-1484	H1484	1149	KEES RD	38.0655675985	-84.4823595444
HLX-1485	H1485	1398	JINGLE BELL LN	38.0385196017	-84.4524350903
HLX-1486	H1486	474	W 6TH ST	38.0588063913	-84.49182766
HLX-1487	H1487	1236	VERSAILLES RD	38.0498938764	-84.5202058979
HLX-1488	H1488	30	W NEW CIRCLE RD	38.0703447154	-84.4763075863
HLX-1489	H1489	2020	HART RD	38.0160861701	-84.476360171
HLX-1490	H1490	2017	BLAIRMORE RD	38.0156310862	-84.4752299152
HLX-1491	H1491	1973	BLAIRMORE RD	38.0165978824	-84.4741715515
HLX-1492	H1492	2101	HART CT	38.01491411	-84.4772745697
HLX-1493	H1493	202	WOODSPOINT RD	38.0268903888	-84.4807501839
HLX-1494	H1494	305	SYCAMORE RD	38.0277868022	-84.4838060809
HLX-1495	H1495	329	SYCAMORE RD	38.0271557389	-84.4846089528
HLX-1496	H1496	2469	EASTWAY DR	38.0096927934	-84.5266729083
HLX-1497	H1497	2225	EASTWAY DR	38.0136085176	-84.5251724972
HLX-1498	H1498	398	SHERIDAN DR	38.0169403595	-84.5286447795
HLX-1499	H1499	493	BARKLEY DR	38.0167187209	-84.5318684207
HLX-1500	H1500	301	SOUTHLAND DR	38.0158067053	-84.5236221218
HLX-1501	H1501	373	SOUTHLAND DR	38.0172567168	-84.52534316
HLX-1502	H1502	398	SOUTHLAND DR	38.0181786357	-84.5267970069
HLX-1503	H1503	1678	ALEXANDRIA DR	38.0404689374	-84.551973183
HLX-1504	H1504	1601	MAYWICK VIEW LN	38.0438348439	-84.5506227214
HLX-1505	H1505	347	MANHATTAN DR	38.06387	-84.46036
HLX-1506	H1506	248	CHENAULT RD	38.0245373846	-84.4830929739
HLX-1507	H1507	213	CATALPA RD	38.0273114604	-84.4824712158
HLX-1508	H1508	439	RIDGEWAY RD	38.0214658245	-84.4836387005
HLX-1509	H1509	345	RIDGEWAY RD	38.0231015726	-84.4827118475
HLX-1510	H1510	202	RIDGEWAY RD	38.0260086788	-84.4798078754
HLX-1511	H1511	1411	FONTAINE RD	38.0241340073	-84.4803584402
HLX-1512	H1512	420	CHINOE RD	38.0203031246	-84.4813759143

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1513	H1513	436	DUDLEY RD	38.0209436761	-84.4825939077
HLX-1514	H1514	539	CHINOE RD	38.0172237691	-84.4832790366
HLX-1515	H1515	135	CHENAULT RD	38.0271703484	-84.4877854532
HLX-1516	H1516	209	COCHRAN RD	38.026612386	-84.4881762787
HLX-1517	H1517	446	CULPEPPER RD	38.0196209276	-84.480193391
HLX-1518	H1518	331	CHINOE RD	38.0221039739	-84.4803339782
HLX-1519	H1519	529	CULPEPPER RD	38.0182836523	-84.4809454435
HLX-1520	H1520	1204	INDIAN MOUND RD	38.0173789222	-84.4873591092
HLX-1521	H1521	1305	PRATHER RD	38.0168298846	-84.481443094
HLX-1522	H1522	1439	LAKWOOD DR	38.0144552409	-84.4821701311
HLX-1523	H1523	1360	COOPER DR	38.0134616407	-84.4784744844
HLX-1524	H1524	1853	BLAIRMORE CT	38.0126069606	-84.4754954904
HLX-1525	H1525	1872	BLAIRMORE RD	38.0137207575	-84.4746603824
HLX-1526	H1526	1948	BLAIRMORE RD	38.0176548347	-84.4727979637
HLX-1527	H1527	179	LAKESHORE DR	38.0189086003	-84.4695202313
HLX-1528	H1528	337	LAKESHORE DR	38.0152002692	-84.4724028631
HLX-1529	H1529	417	LAKESHORE DR	38.0132565586	-84.4732776371
HLX-1530	H1530	1203	LAKWOOD DR	38.0164586975	-84.4880400286
HLX-1531	H1531	245	CASSIDY AVE	38.0243156797	-84.4890971642
HLX-1532	H1532	1051	COOPER DR	38.0203504383	-84.4907792883
HLX-1533	H1533	1229	PROVIDENCE LN	38.0201113393	-84.4837769314
HLX-1534	H1534	131	EASTOVER DR	38.0228723664	-84.4906392841
HLX-1535	H1535	104	COCHRAN RD	38.0274950398	-84.489906063
HLX-1536	H1536	325	CULPEPPER RD	38.0214702715	-84.4789376684
HLX-1537	H1537	523	CHINOE RD	38.0182277463	-84.4825610123
HLX-1538	H1538	241	WOODSPOINT RD	38.0258753935	-84.4826538047
HLX-1539	H1539	203	SYCAMORE RD	38.028902025	-84.4820860541
HLX-1540	H1540	1225	COOPER DR	38.0177095699	-84.4855633616
HLX-1542	H1542	2117	FONTAINE RD	38.01774861	-84.4674090664
HLX-1543	H1543	2232	DINSMORE DR	38.016622354	-84.4661274625
HLX-1544	H1544	241	FONTAINE CIR	38.019561952	-84.4712331802
HLX-1545	H1545	2031	FONTAINE RD	38.0184329645	-84.4715115313
HLX-1546	H1546	2057	FONTAINE RD	38.0177458726	-84.4701722654
HLX-1547	H1547	313	LAKESHORE DR	38.0164233622	-84.4710308625

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1548	H1548	1917	BLAIRMORE RD	38.0164216	-84.4726020546
HLX-1549	H1549	1897	BLAIRMORE RD	38.0153988049	-84.4737816773
HLX-1550	H1550	204	HART RD	38.0171108296	-84.4752059247
HLX-1551	H1551	2036	BLAIRMORE RD	38.0143661006	-84.4759369028
HLX-1552	H1552	2122	HART CT	38.0136446029	-84.4768479166
HLX-1553	H1553	2137	SAGE RD	38.022549992	-84.5466503658
HLX-1554	H1554	1536	ALEXANDRIA DR	38.0457761742	-84.5520007676
HLX-1555	H1555	412	BRYANWOOD PKY	38.06229	-84.45542
HLX-1556	H1556	532	BRYANWOOD PKY	38.0598392274	-84.4523488008
HLX-1557	H1557	1624	ALEXANDRIA DR	38.0427969974	-84.5517861421
HLX-1558	H1558	1666	ALEXANDRIA DR	38.0415726862	-84.5518508037
HLX-1559	H1559	1401	CANTRILL CT	38.0487661282	-84.4481297651
HLX-1560	H1560	1548	EASTLAND PKY	38.0459108155	-84.4528420163
HLX-1561	H1561	1742	RALEIGH RD	38.053953231	-84.4447643222
HLX-1562	H1562	1778	RALEIGH RD	38.0529916671	-84.4462684927
HLX-1563	H1563	691	KENNEDY RD	38.072889	-84.49908516
HLX-1564	H1564	2409	WANDA WAY	38.0877826848	-84.4497883902
HLX-1565	H1565	189	ELMWOOD DR	38.088257617	-84.4483598713
HLX-1566	H1566	80	CONTRACT ST	38.0477772633	-84.4686038823
HLX-1567	H1567	832	CONTRACT ST	38.048515765	-84.4677341227
HLX-1568	H1568	572	BELLCASTLE RD	38.05866	-84.45099
HLX-1569	H1569	593	BELLCASTLE RD	38.0574829487	-84.4496778085
HLX-1570	H1570	655	HI CREST DR	38.0568453509	-84.4471353589
HLX-1571	H1571	1723	HARROGATE RD	38.0581160424	-84.4568981595
HLX-1572	H1572	580	SHAFTSBURY RD	38.0551472544	-84.4554699954
HLX-1573	H1573	677	DARTMOOR CT	38.0526091748	-84.453733208
HLX-1574	H1574	632	DARTMOOR DR	38.0537146731	-84.4547224049
HLX-1575	H1575	1603	FAIRWAY DR	38.0288743853	-84.4754360138
HLX-1576	H1576	1605	BON-AIR DR	38.0303202288	-84.4735885764
HLX-1577	H1577	341	KINGSWAY DR	38.0307549513	-84.4714393831
HLX-1578	H1578	225	KINGSWAY DR	38.0289671945	-84.4739305416
HLX-1579	H1579	231	QUEENSWAY DR	38.0282512127	-84.4731430308
HLX-1580	H1580	1815	BARWICK DR	38.0436198695	-84.4456315872
HLX-1581	H1581	1831	BARWICK DR	38.0448256955	-84.4468237153

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1582	H1582	1833	CANTRILL DR	38.0463630082	-84.4449644668
HLX-1583	H1583	1801	JOAN DR	38.0470138081	-84.4436566123
HLX-1584	H1584	1820	JOAN DR	38.0458796641	-84.4425494468
HLX-1585	H1585	1817	DALNA DR	38.0466285241	-84.4419538925
HLX-1586	H1586	1506	FORT SUMTER CT	38.0514777107	-84.4460181673
HLX-1587	H1587	1521	CONTINENTAL SQ	38.0478676341	-84.452120255
HLX-1588	H1588	1372	LAKEWOOD DR	38.0153675698	-84.4858234562
HLX-1589	H1589	317	MANHATTAN DR	38.0652752835	-84.4616161527
HLX-1591	H1591	1222	BRYAN AVE	38.0581247311	-84.4714189572
HLX-1592	H1592	1638	MAYWICK VIEW LN	38.0418533354	-84.5506203561
HLX-1593	H1593	1691	TRAVELLER RD	38.0409700645	-84.5538434332
HLX-1594	H1594	2401	NICHOLASVILLE RD	38.0034550871	-84.5196114135
HLX-1595	H1595	201	GARDEN SPRINGS DR	38.0301237834	-84.5415982452
HLX-1596	H1596	3255	SUTHERLAND DR	37.9917998164	-84.4746745425
HLX-1597	H1597	3311	COLDSTREAM DR	37.9908356532	-84.476509285
HLX-1598	H1598	3267	FOXTALE CT	37.9897885381	-84.4759392276
HLX-1599	H1599	3351	COLDSTREAM DR	37.9891813346	-84.4773101421
HLX-1600	H1600	1271	GAINESWAY DR	37.9880989858	-84.4778367659
HLX-1601	H1601	3413	CRIMSON KING CT	37.9868477796	-84.4771215758
HLX-1602	H1602	105	CRAMER AVE	38.0354847491	-84.4773405464
HLX-1603	H1603	802	GLENDOVER RD	38.0083418597	-84.4987556372
HLX-1604	H1604	857	GLENDOVER RD	38.0081029755	-84.4965666028
HLX-1605	H1605	3453	FLINTRIDGE DR	37.9908161833	-84.5153208612
HLX-1606	H1606	869	E HIGH ST	38.0283894348	-84.4904425548
HLX-1607	H1607	1505	CONTINENTAL SQ	38.0469312979	-84.4509065089
HLX-1608	H1608	2464	WANDA CT	38.0885891268	-84.4464456387
HLX-1609	H1609	2175	STEPHENS LN	38.0260272286	-84.5554988334
HLX-1610	H1610	2148	ALEXANDRIA DR	38.0249810853	-84.5535765653
HLX-1611	H1611	952	PINE BLOOM DR	38.0246452608	-84.5553609429
HLX-1612	H1612	2209	ALEXANDRIA DR	38.024384727	-84.5542267857
HLX-1613	H1613	2247	ALEXANDRIA DR	38.0228051265	-84.5532425645
HLX-1614	H1614	2224	MARKHAM CT	38.021891985	-84.5520278491
HLX-1615	H1615	2228	AZALEA DR	38.0208996987	-84.5516797537
HLX-1616	H1616	2177	AZALEA DR	38.0222443964	-84.5498145907

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1617	H1617	917	LILY DR	38.0229562327	-84.5509213106
HLX-1618	H1618	949	LILY DR	38.0240608144	-84.5524647295
HLX-1619	H1619	626	BISHOP DR	38.0808664444	-84.4684992843
HLX-1620	H1620	1811	LINTON RD	38.0798884482	-84.4671378731
HLX-1621	H1621	568	BISHOP DR	38.0786665846	-84.4651872174
HLX-1622	H1622	338	COCHRAN RD	38.0243556476	-84.4875211625
HLX-1623	H1623	144	LOUISIANA AVE	38.0236720886	-84.4856510183
HLX-1624	H1624	301	DUKE RD	38.0215700861	-84.4870225095
HLX-1625	H1625	1182	KELSEY DR	38.0558873815	-84.5551275336
HLX-1626	H1626	1182	CAYWOOD DR	38.0553399651	-84.5529709777
HLX-1627	H1627	1206	ALEXANDRIA DR	38.0545324152	-84.5542142389
HLX-1628	H1628	1192	DEVONPORT CIR	38.053923391	-84.555438012
HLX-1629	H1629	1236	DEVONPORT DR	38.0532202139	-84.5539997733
HLX-1630	H1630	2085	CAMBRIDGE DR	38.0533078447	-84.5525333051
HLX-1631	H1631	1272	DEVONPORT DR	38.0517831087	-84.5538458578
HLX-1632	H1632	1263	ALEXANDRIA DR	38.052041587	-84.5526791834
HLX-1633	H1633	130	DEVONPORT DR	38.0505253968	-84.5544324154
HLX-1634	H1634	1290	ALEXANDRIA DR	38.0508834908	-84.5525479781
HLX-1635	H1635	3045	TATES CREEK RD	38.0034576481	-84.4955751133
HLX-1636	H1636	904	ALBANY RD	38.0030607138	-84.494594869
HLX-1637	H1637	3121	MONTAVESTA RD	38.0018772201	-84.4943361713
HLX-1638	H1638	648	EDEN RD	38.0857726339	-84.4604180131
HLX-1639	H1639	684	EDEN RD	38.0853664228	-84.4614427851
HLX-1640	H1640	220	PIERSON DR	38.0863024695	-84.4621736068
HLX-1641	H1641	720	EDEN CT	38.0870621069	-84.4631236147
HLX-1642	H1642	756	EDEN CT	38.0881548008	-84.4643743687
HLX-1643	H1643	2229	PIERSON DR	38.0872160479	-84.4608801594
HLX-1644	H1644	620	EDEN RD	38.0866491055	-84.4596581677
HLX-1645	H1645	663	BURGESS AVE	38.0827025699	-84.4689161646
HLX-1646	H1646	653	BISHOP DR	38.0818168737	-84.4684021818
HLX-1647	H1647	1823	LINTON RD	38.0805210496	-84.4664413904
HLX-1648	H1648	628	WALDO WAY	38.081778451	-84.4671202769
HLX-1649	H1649	635	CHARLBURY RD	38.083040675	-84.4666211451
HLX-1650	H1650	686	BISHOP DR	38.0831157138	-84.4677064528

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1651	H1651	639	WELLS CT	38.08401707	-84.4663427428
HLX-1652	H1652	726	BISHOP DR	38.0846950696	-84.4670443262
HLX-1653	H1653	634	HYDEN CT	38.0846026633	-84.4655257403
HLX-1654	H1654	204	RADCLIFFE RD	38.0860874756	-84.4671125721
HLX-1655	H1655	801	FOXCROFT CT	38.0860365835	-84.466530824
HLX-1656	H1656	820	FOXCROFT CT	38.0871344739	-84.4664302549
HLX-1657	H1657	813	WHEATCROFT CT	38.0862412759	-84.46528181
HLX-1658	H1658	805	FARRA CT	38.0853211125	-84.4645478271
HLX-1659	H1659	1913	RADCLIFFE CT	38.0843780151	-84.4637171002
HLX-1660	H1660	1911	LINTON RD	38.0837126558	-84.4630686082
HLX-1661	H1661	1881	LINTON RD	38.082800609	-84.4641069385
HLX-1662	H1662	1876	CHARLBURY CT	38.0827375959	-84.4654395524
HLX-1663	H1663	1862	LINTON RD	38.081914518	-84.4650718926
HLX-1664	H1664	610	BENTON CT	38.0814362834	-84.465903084
HLX-1665	H1665	2234	RICHMOND RD	38.0167425519	-84.4634486539
HLX-1666	H1666	2108	EASTWAY DR	38.0151477976	-84.5243615026
HLX-1667	H1667	330	SHERIDAN DR	38.0148620657	-84.5261273776
HLX-1668	H1668	123	12TH ST	38.0616854475	-84.4789265005
HLX-1669	H1669	344	CASSIDY AVE	38.0212837027	-84.4900065647
HLX-1670	H1670	801	LANE ALLEN RD	38.0287635122	-84.5383002971
HLX-1671	H1671	370	CAMELOT DR	37.9792839826	-84.5097061212
HLX-1672	H1672	3648	KING ARTHUR DR	37.9804326994	-84.5110340234
HLX-1673	H1673	3605	KING ARTHUR DR	37.9813198439	-84.5129304406
HLX-1674	H1674	399	GAWAINE DR	37.980437738	-84.5091125648
HLX-1675	H1675	366	GAWAINE DR	37.9811717142	-84.5106092496
HLX-1676	H1676	3568	GALAHAD DR	37.981494187	-84.5117004799
HLX-1677	H1677	1709	LINDY CT	38.0368013054	-84.4610443481
HLX-1678	H1678	1960	NEWTOWN PIKE	38.0976813317	-84.4854948139
HLX-1679	H1679	1950	NEWTOWN PIKE	38.096916094	-84.4857238178
HLX-1680	H1680	2892	RUNNYMEDE WAY	38.004744205	-84.5344265083
HLX-1681	H1681	20	WILTON AVE	38.0590989648	-84.5189515677
HLX-1682	H1682	138	CLYDE ST	38.0595319668	-84.5200277243
HLX-1683	H1683	272	W NEW CIRCLE RD	38.069873666	-84.4755634578
HLX-1686	H1686	40	LONGVIEW DR	38.0178049615	-84.5278337077

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1687	H1687	341	SOUTHLAND DR	38.0164500229	-84.5244019107
HLX-1688	H1688	361	SOUTHLAND DR	38.0168830322	-84.5249036323
HLX-1689	H1689	399	STRATFORD DR	38.0162639827	-84.5293482071
HLX-1690	H1690	437	BARKLEY DR	38.0153759954	-84.5311761466
HLX-1691	H1691	362	SHERIDAN DR	38.0157450832	-84.5272285109
HLX-1692	H1692	988	E NEW CIRCLE RD	38.039034293	-84.4542500959
HLX-1693	H1693	755	LANE ALLEN RD	38.0278002434	-84.5364370214
HLX-1694	H1694	951	LANE ALLEN RD	38.0315164526	-84.5479318737
HLX-1695	H1695	2343	HARRODSBURG RD	38.0217972371	-84.5428835178
HLX-1696	H1696	1163	FLOYD DR	38.0509488056	-84.4583948292
HLX-1697	H1697	1208	N BROADWAY	38.0634476059	-84.4792602022
HLX-1698	H1698	140	N BROADWAY	38.0641554482	-84.4783189492
HLX-1699	H1699	1412	N BROADWAY	38.0647913952	-84.4772476014
HLX-1700	H1700	128	W NEW CIRCLE RD	38.0660314093	-84.4711853503
HLX-1701	H1701	1420	N FORBES RD	38.06551	-84.51962
HLX-1702	H1702	1442	TOWNLEY DR	38.066524342	-84.5186501012
HLX-1703	H1703	262	W NEW CIRCLE RD	38.0695314795	-84.4750992148
HLX-1704	H1704	1454	JINGLE BELL LN	38.0385619186	-84.4507931155
HLX-1705	H1705	121	CLYDE ST	38.0608337602	-84.5192233117
HLX-1706	H1706	101	CLYDE ST	38.0618139634	-84.5183910459
HLX-1707	H1707	326	MIDLAND PL	38.0427672943	-84.4797226872
HLX-1708	H1708	636	BIZZELL DR	38.0650999521	-84.5411471427
HLX-1709	H1709	624	BIZZELL DR	38.0656104337	-84.540837373
HLX-1710	H1710	1905	OXFORD CIR	38.0500695244	-84.5406701938
HLX-1711	H1711	1625	NICHOLASVILLE RD	38.0208530321	-84.5134368964
HLX-1712	H1712	1801	NICHOLASVILLE RD	38.0178264879	-84.5144135628
HLX-1713	H1713	813	GLENDOVER RD	38.0083984264	-84.4977026967
HLX-1714	H1714	1441	COLEMAN CT	38.0958513993	-84.4856525015
HLX-1715	H1715	1065	NEWTOWN PIKE	38.0771497998	-84.4937125249
HLX-1716	H1716	160	GAYLE DR	38.0496621947	-84.4460631118
HLX-1717	H1717	1641	GAYLE DR	38.0491924072	-84.4432918945
HLX-1718	H1718	1713	PELLINORE CT	38.0484333485	-84.4425314203
HLX-1719	H1719	532	LIMA DR	38.0733557896	-84.508753112
HLX-1720	H1720	584	CRICKLEWOOD DR	38.055470199	-84.4524491049

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1721	H1721	612	CRICKLEWOOD DR	38.0542919514	-84.4511558067
HLX-1722	H1722	612	SHAFTSBURY RD	38.0564186644	-84.4535547334
HLX-1723	H1723	1747	HARROGATE RD	38.0590159936	-84.455984183
HLX-1724	H1724	360	RIVER PARK DR	37.9743924719	-84.4779545216
HLX-1725	H1725	3621	RIVER PARK DR	37.9736301895	-84.4785773936
HLX-1726	H1726	1419	BEAUFORT DR	37.9730374966	-84.4773368867
HLX-1727	H1727	1477	THAMES DR	37.9721650035	-84.475921617
HLX-1728	H1728	1460	THAMES DR	37.9730554062	-84.4754830541
HLX-1729	H1729	1416	THAMES DR	37.9736879281	-84.4768459529
HLX-1731	H1731	3037	MONTAVESTA RD	38.0038655561	-84.4919632328
HLX-1732	H1732	3122	LAMAR DR	38.0024262232	-84.4922052362
HLX-1733	H1733	3174	LAMAR DR	38.0026173901	-84.4910709812
HLX-1734	H1734	3025	MONTAVESTA RD	38.0037043549	-84.4909376505
HLX-1735	H1735	0	E NEW CIRCLE RD	38.048179728	-84.4544380854
HLX-1736	H1736	760	E NEW CIRCLE RD	38.0475080397	-84.4542538203
HLX-1737	H1737	1836	RUSSELL CAVE RD	38.0845054942	-84.4680618766
HLX-1739	H1739	429	HAGGARD LN	38.0753368172	-84.4604784283
HLX-1740	H1740	1021	S BROADWAY	38.03803	-84.51637
HLX-1741	H1741	385	VIRGINIA AVE	38.0381887572	-84.5147988295
HLX-1743	H1743	1294	MERMAN DR	37.9766273581	-84.4829417506
HLX-1744	H1744	1208	AUSTIN CT	37.9761668466	-84.4841683202
HLX-1745	H1745	3624	CROSBY DR	37.9756111755	-84.4835819889
HLX-1746	H1746	3693	NILES DR	37.9745312884	-84.4845762111
HLX-1747	H1747	3653	NILES DR	37.9750253419	-84.4859246039
HLX-1748	H1748	3625	NILES DR	37.9762582631	-84.4854177609
HLX-1749	H1749	1263	MERMAN DR	37.9773534141	-84.484617309
HLX-1750	H1750	1036	ARMSTRONG MILL RD	37.9823772538	-84.4933352684
HLX-1751	H1751	1807	RALEIGH RD	38.0527902785	-84.4477368771
HLX-1752	H1752	1647	KILKENNY DR	38.0538985796	-84.4477854463
HLX-1753	H1753	1682	KILKENNY DR	38.0541605433	-84.4462375305
HLX-1754	H1754	3531	MILANO RD	37.9819261984	-84.4849774499
HLX-1755	H1755	120	OCTAVIAN CIR	37.9804006967	-84.4834173619
HLX-1756	H1756	1201	VENETIAN CIR	37.9798623092	-84.4845770654
HLX-1757	H1757	3629	OLYMPIA CIR	37.9786185263	-84.4842024679

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1758	H1758	100	LAKESHORE DR	38.01803356	-84.466109206
HLX-1759	H1759	2093	FONTAINE RD	38.0173403355	-84.4686733302
HLX-1760	H1760	3456	LANSLOWNE DR	37.99320115	-84.5139158979
HLX-1761	H1761	3483	LANSLOWNE DR	37.9910082137	-84.5135037383
HLX-1762	H1762	297	HIGHTOWER RD	37.9922511884	-84.5111621196
HLX-1763	H1763	3413	FLINTRIDGE CIR	37.9920663102	-84.5155509584
HLX-1764	H1764	573	HI CREST DR	38.0597326139	-84.4502666659
HLX-1765	H1765	1724	WYATT PKY	38.03688053	-84.4594497936
HLX-1766	H1766	1753	WYATT PKY	38.0358422255	-84.4581786298
HLX-1767	H1767	1745	BENWOOD DR	38.0362110439	-84.4573032926
HLX-1768	H1768	1724	BENWOOD DR	38.0370523192	-84.4584041177
HLX-1769	H1769	180	AUGUSTA CT	38.0535949419	-84.443514409
HLX-1770	H1770	112	CHINOE RD	38.0255512774	-84.4757192895
HLX-1771	H1771	201	ROMANY RD	38.0216607533	-84.4847544117
HLX-1772	H1772	377	COLONY BLVD	38.019533783	-84.4894842994
HLX-1773	H1773	1558	LAKESWOOD CT	38.011737343	-84.4792227829
HLX-1774	H1774	1590	LAKESWOOD CT	38.0117286212	-84.4777001888
HLX-1775	H1775	342	STRATFORD DR	38.0141228757	-84.5268312777
HLX-1776	H1776	367	STRATFORD DR	38.0152089524	-84.5282913113
HLX-1777	H1777	2320	EASTWAY DR	38.0126640153	-84.525631751
HLX-1778	H1778	499	HOLLYHILL DR	38.0149905216	-84.5323680314
HLX-1779	H1779	538	STRATFORD DR	38.0176191972	-84.5315862599
HLX-1780	H1780	333	HOLLYHILL DR	38.0131626941	-84.5273493873
HLX-1781	H1781	2433	EASTWAY DR	38.0111545313	-84.5262380976
HLX-1782	H1782	2322	MAPLEWOOD DR	38.0137241561	-84.5289031062
HLX-1783	H1783	2319	PIERSON DR	38.0886906493	-84.4593084904
HLX-1784	H1784	2302	PIERSON DR	38.0881015302	-84.4602332521
HLX-1785	H1785	626	PARKSIDE DR	38.0873099476	-84.4588043819
HLX-1786	H1786	0	OLD FRANKFORT PIKE	38.05873672	-84.52888209
HLX-1787	H1787	0	OLD FRANKFORT PIKE	38.0579919415	-84.5278685785
HLX-1788	H1788	2012	REGENCY RD	38.0131776688	-84.5222051211
HLX-1789	H1789	1905	VERSAILLES RD	38.0479670364	-84.5385556172
HLX-1790	H1790	1714	VERSAILLES RD	38.0483600349	-84.5355043357
HLX-1793	H1793	1060	MAYWICK DR	38.0368946437	-84.5503936681

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1794	H1794	2020	DUNCAN MACHINERY DR	38.0610673849	-84.5425661008
HLX-1796	H1796	2101	HARRODSBURG RD	38.0249621927	-84.5383247968
HLX-1797	H1797	2208	HARRODSBURG RD	38.0240560937	-84.5400309823
HLX-1798	H1798	2184	LAKESIDE DR	38.0045166112	-84.4784724713
HLX-1799	H1799	332	RADCLIFFE RD	38.0824307603	-84.4617218584
HLX-1802	H1802	1417	BRYAN AVE	38.0586512269	-84.4689382982
HLX-1803	H1803	426	SHAWNEE AVE	38.0576678218	-84.4679025775
HLX-1804	H1804	462	SHAWNEE AVE	38.0565639803	-84.4667595611
HLX-1805	H1805	40	EMERSON DR	38.0595696316	-84.4661238467
HLX-1806	H1806	313	PERRY ST	38.0520160817	-84.5129621404
HLX-1807	H1807	1421	RICHMOND RD	38.0297240513	-84.4781874646
HLX-1808	H1808	315	NORTHLAND DR	38.0662303568	-84.4773208733
HLX-1809	H1809	208	TRANSCRIPT AVE	38.0324525197	-84.5129262419
HLX-1810	H1810	150	RUSSELL CAVE RD	38.071367147	-84.4760946361
HLX-1811	H1811	1506	RUSSELL CAVE RD	38.0719718105	-84.4754361836
HLX-1812	H1812	1725	CHELMSFORD DR	38.053560327	-84.4516527151
HLX-1813	H1813	581	STONEHAVEN DR	38.0548960579	-84.4530498757
HLX-1814	H1814	627	WARRINGTON DR	38.0544146312	-84.4539232618
HLX-1815	H1815	663	WARRINGTON DR	38.053165697	-84.452641445
HLX-1816	H1816	487	E NEW CIRCLE RD	38.0548217534	-84.459553231
HLX-1817	H1817	2351	PIERSON DR	38.0894261596	-84.4576468811
HLX-1818	H1818	629	KENT DR	38.0884235778	-84.4569969679
HLX-1819	H1819	2409	PIERSON DR	38.0910461045	-84.4553513055
HLX-1820	H1820	2379	PIERSON DR	38.0904649936	-84.4562786113
HLX-1821	H1821	2425	SHANDON DR	38.0905643204	-84.4542747753
HLX-1822	H1822	2369	SHANDON DR	38.0895433782	-84.4559401629
HLX-1823	H1823	532	FOLKSTONE DR	38.0004063064	-84.4609776626
HLX-1824	H1824	2744	LOCKHURST RD	37.9989940914	-84.4615718272
HLX-1825	H1825	2757	BAYBROOK RD	38.0000268955	-84.4604764592
HLX-1826	H1826	497	PLAINVIEW RD	38.0003167385	-84.4586622747
HLX-1827	H1827	2763	LOCKHURST RD	37.9991883664	-84.4604494577
HLX-1828	H1828	2787	LOCKHURST RD	37.9993927368	-84.4591224969
HLX-1829	H1829	493	MT TABOR RD	37.9999805646	-84.4574765614
HLX-1830	H1830	537	MT TABOR RD	37.9982097863	-84.4584204383

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1831	H1831	408	PLAINVIEW RD	38.0034506871	-84.4598753704
HLX-1832	H1832	441	PLAINVIEW RD	38.0021337424	-84.4599594941
HLX-1833	H1833	456	PLAINVIEW RD	38.0012645315	-84.4594811915
HLX-1834	H1834	2713	STETSON LN	38.0021017145	-84.4585706465
HLX-1835	H1835	461	MT TABOR RD	38.0012903454	-84.456883429
HLX-1836	H1836	572	COMPTON DR	37.9977588275	-84.4613944413
HLX-1837	H1837	550	COMPTON DR	37.9980691811	-84.4597889372
HLX-1838	H1838	2668	TWINBROOKE LN	37.9969635358	-84.4623238455
HLX-1839	H1839	575	PLAINVIEW RD	37.9968253365	-84.4604055462
HLX-1840	H1840	601	MT TABOR RD	37.9966259639	-84.4592038429
HLX-1841	H1841	413	HOLLOW CREEK RD	38.0732357999	-84.4758625582
HLX-1842	H1842	437	HOLLOW CREEK RD	38.07398	-84.47692
HLX-1843	H1843	376	RADCLIFFE RD	38.0806260425	-84.460896392
HLX-1844	H1844	411	RADCLIFFE RD	38.0790950781	-84.4615027009
HLX-1845	H1845	450	RADCLIFFE RD	38.0787752374	-84.4623900388
HLX-1846	H1846	521	RADCLIFFE RD	38.077626984	-84.463018917
HLX-1847	H1847	724	FAULKNER AVE	38.0929321363	-84.4522536755
HLX-1848	H1848	295	KINGSTON RD	37.9994234959	-84.4459662446
HLX-1849	H1849	292	KINGSTON RD	38.0916692432	-84.4514093031
HLX-1850	H1850	718	DAMEL CT	38.0920006703	-84.4524583728
HLX-1851	H1851	255	MALABU DR	38.0004388922	-84.5156621842
HLX-1852	H1852	2180	YOUNG DR	38.0263556776	-84.4569192295
HLX-1853	H1853	121	MALABU DR	38.0029315242	-84.5178431401
HLX-1854	H1854	147	MALABU DR	38.0019749583	-84.5168057045
HLX-1855	H1855	621	LISA CT	38.0835912675	-84.4603075176
HLX-1856	H1856	577	LISA DR	38.0829128448	-84.4592460988
HLX-1857	H1857	549	LISA DR	38.0817386092	-84.4581993854
HLX-1858	H1858	554	STONEHAVEN DR	38.0559436202	-84.4541299507
HLX-1859	H1859	517	STONEHAVEN DR	38.0568058357	-84.4556517615
HLX-1860	H1860	516	CRICKLEWOOD DR	38.0576964607	-84.4558528907
HLX-1861	H1861	913	MURRAY DR	38.0453137418	-84.4560725027
HLX-1862	H1862	1560	EASTLAND PKY	38.0462212998	-84.451882524
HLX-1863	H1863	2440	RICHMOND RD	38.0139559119	-84.4596664205
HLX-1864	H1864	2548	RICHMOND RD	38.0116045357	-84.4569843331

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1865	H1865	1870	MARLBORO DR	38.0815044064	-84.4639251132
HLX-1866	H1866	543	BENTON RD	38.0791969066	-84.4629186371
HLX-1867	H1867	571	BENTON RD	38.0802132868	-84.4641841559
HLX-1868	H1868	1827	MARLBORO DR	38.0801114732	-84.4652759162
HLX-1869	H1869	2888	MIDDLESEX WAY	38.0046140869	-84.5334860719
HLX-1870	H1870	2991	RUNNYMEDE WAY	38.0038807394	-84.5329473944
HLX-1871	H1871	2969	RUNNYMEDE WAY	38.0028343924	-84.5334572431
HLX-1872	H1872	2921	RUNNYMEDE WAY	38.0034879079	-84.5351749819
HLX-1873	H1873	447	WILSON DOWNING RD	37.9788896896	-84.5090793433
HLX-1874	H1874	397	WALLER AVE	38.0311450774	-84.5204584377
HLX-1875	H1875	317	REDDING RD	37.9906483841	-84.5118957413
HLX-1876	H1876	349	REDDING RD	37.9897293212	-84.5100798338
HLX-1877	H1877	1119	CENTURIAN RD	37.9826381139	-84.4858400957
HLX-1878	H1878	1701	ALEXANDRIA DR	38.0400889888	-84.5524217271
HLX-1879	H1879	831	MALABU DR	37.9918459358	-84.4996294896
HLX-1880	H1880	231	CATALPA RD	38.0264893653	-84.4836800427
HLX-1881	H1881	2444	PIERSON DR	38.0925626768	-84.4539612192
HLX-1882	H1882	2456	PIERSON DR	38.0933396952	-84.4533883294
HLX-1883	H1883	340	LEGION DR	38.0344951268	-84.520348598
HLX-1884	H1884	130	N LIMESTONE	38.0618886329	-84.4748508809
HLX-1885	H1885	628	BELLCASTLE RD	38.0560070864	-84.4481376712
HLX-1886	H1886	641	BELLCASTLE RD	38.0554288065	-84.4475575185
HLX-1887	H1887	1626	HARRODSBURG RD	38.0314656131	-84.5269849857
HLX-1888	H1888	109	GEORGETOWN RD	38.0767858292	-84.5070249339
HLX-1889	H1889	537	HI CREST DR	38.06084	-84.45146
HLX-1890	H1890	2439	NICHOLASVILLE RD	38.0020330753	-84.5197136984
HLX-1891	H1891	168	SURFSIDE DR	38.0015229779	-84.5180241344
HLX-1892	H1892	247	SURFSIDE DR	38.001219208	-84.5166789935
HLX-1893	H1893	3484	KING ARTHUR DR	37.9855359744	-84.510996278
HLX-1894	H1894	3508	KING ARTHUR DR	37.984404006	-84.5115642648
HLX-1895	H1895	3552	KING ARTHUR DR	37.9826970902	-84.5123938832
HLX-1896	H1896	367	LANCELOT LN	37.9845476069	-84.5103762087
HLX-1897	H1897	3532	GALAHAD DR	37.9830034454	-84.5109958486
HLX-1898	H1898	3387	GREENTREE RD	37.9908467195	-84.4817561919

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1899	H1899	1119	GREENTREE CT	37.9909285955	-84.4832265112
HLX-1900	H1900	1101	CENTRE PKY	37.98269	-84.48394
HLX-1901	H1901	3528	OLYMPIA RD	37.9833449246	-84.4866084527
HLX-1902	H1902	1140	CENTER PKY	37.9835893179	-84.4845203556
HLX-1903	H1903	1160	CENTER PKY	37.9826273126	-84.4838932291
HLX-1904	H1904	1192	CENTER PKY	37.981122935	-84.4826913219
HLX-1905	H1905	1193	BRIARWOOD DR	38.0810889793	-84.5078437357
HLX-1906	H1906	1157	BRIARWOOD DR	38.0813421584	-84.5059887075
HLX-1907	H1907	1129	BRIARWOOD DR	38.0817485318	-84.5044408707
HLX-1908	H1908	1098	REDWOOD DR	38.0828071905	-84.5034312182
HLX-1909	H1909	1158	REDWOOD DR	38.0819892433	-84.5066310667
HLX-1910	H1910	1126	REDWOOD DR	38.082486521	-84.5047744053
HLX-1911	H1911	650	KENNEDY RD	38.0721633879	-84.498106988
HLX-1912	H1912	415	GLEN ARVIN AVE	38.0645699226	-84.5054759303
HLX-1913	H1913	446	GLEN ARVIN AVE	38.0653036125	-84.5037976357
HLX-1914	H1914	2433	PIERSON DR	38.0917435902	-84.4542345802
HLX-1915	H1915	70	KINGSTON RD	38.0907126921	-84.4528837952
HLX-1916	H1916	105	FAIRDALE DR	38.0671197561	-84.5101650282
HLX-1917	H1917	1138	FINNEY DR	38.074215245	-84.5037072598
HLX-1918	H1918	1713	BREWER DR	38.0749696003	-84.4661908727
HLX-1919	H1919	2353	PARIS PIKE	38.0796258418	-84.4492475011
HLX-1920	H1920	2311	PARIS PIKE	38.0791565684	-84.4500237156
HLX-1921	H1921	1702	MERCER RD	38.0761241416	-84.5270358654
HLX-1922	H1922	1734	MERCER RD	38.0759113998	-84.5263887658
HLX-1924	H1924	1551	MERCER RD	38.0752774149	-84.5164121167
HLX-1925	H1925	2160	NICHOLASVILLE RD	38.0091505419	-84.5171779637
HLX-1926	H1926	648	LACO DR	38.0644855473	-84.5398484905
HLX-1927	H1927	2309	VERSAILLES RD	38.0468262333	-84.5530241131
HLX-1928	H1928	2285	VERSAILLES RD	38.0468827683	-84.5521056863
HLX-1930	H1930	1116	MANCHESTER ST	38.0549425281	-84.5145259609
HLX-1931	H1931	333	LEGION DR	38.033809982	-84.5193623152
HLX-1932	H1932	1533	NICHOLASVILLE RD	38.0229781249	-84.5126716198
HLX-1933	H1933	205	LAKESIDE DR	38.0067102449	-84.4769427769
HLX-1934	H1934	2048	LAKESIDE DR	38.0039876154	-84.4761914377

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1935	H1935	2076	LAKESIDE DR	38.0028454336	-84.4733433839
HLX-1936	H1936	333	REDDING RD	37.9902531299	-84.5110008792
HLX-1937	H1937	3487	LANSLOWNE DR	37.9898158039	-84.5136726826
HLX-1938	H1938	3482	LANSLOWNE DR	37.9893652402	-84.5140804872
HLX-1939	H1939	147	LAKESHORE DR	38.0195082961	-84.4689601362
HLX-1940	H1940	863	S BROADWAY	38.0395313236	-84.5144043973
HLX-1941	H1941	1311	NANCY HANKS RD	38.0472747637	-84.5229175992
HLX-1942	H1942	2310	SOUTHVIEW DR	38.0151809664	-84.5297518103
HLX-1943	H1943	2216	EASTWAY DR	38.0143273694	-84.5248042149
HLX-1944	H1944	545	HOLLYHILL DR	38.0164643288	-84.5362449239
HLX-1945	H1945	525	HOLLYHILL DR	38.0157174287	-84.534435787
HLX-1946	H1946	571	FAIRFIELD DR	38.0155159645	-84.5366634346
HLX-1947	H1947	531	FAIRFIELD DR	38.014838486	-84.5346238034
HLX-1948	H1948	565	HILL-N-DALE RD	38.014566987	-84.5371208343
HLX-1949	H1949	545	HILL-N-DALE RD	38.014053208	-84.5359036144
HLX-1950	H1950	506	HILL-N-DALE RD	38.0132085637	-84.5343385353
HLX-1951	H1951	540	CLAYMONT DR	38.0124301852	-84.5349873355
HLX-1952	H1952	2341	SOUTHVIEW DR	38.0142336775	-84.5301732225
HLX-1953	H1953	402	FAIRFIELD DR	38.0131959147	-84.5311728319
HLX-1954	H1954	2522	SOUTHVIEW DR	38.0122612727	-84.5318268826
HLX-1955	H1955	30	BRADFORD DR	38.0113999849	-84.5305935784
HLX-1956	H1956	245	BRADFORD DR	38.0108910838	-84.5291747361
HLX-1957	H1957	2480	MILLBROOK DR	38.0104880759	-84.5279410636
HLX-1958	H1958	2410	MILLBROOK DR	38.0117579808	-84.5275360222
HLX-1959	H1959	704	WERNE DR	38.0609030538	-84.543667129
HLX-1960	H1960	726	WERNE DR	38.0601491745	-84.5440414687
HLX-1961	H1961	101	APRICOT ST	38.0651931482	-84.5127994402
HLX-1962	H1962	40	PRICE RD	38.067583033	-84.5093211392
HLX-1963	H1963	1057	NANDINO BLVD	38.0785710113	-84.5040182376
HLX-1964	H1964	1057	NANDINO BLVD	38.0787139922	-84.5033549064
HLX-1965	H1965	637	SEVERN WAY	38.0060057998	-84.5349969187
HLX-1966	H1966	576	SEVERN WAY	38.0077793768	-84.5346965571
HLX-1967	H1967	2852	RUNNYMEDE WAY	38.0070751628	-84.5332744297
HLX-1968	H1968	2852	MIDDLESEX WAY	38.0067564505	-84.5323785704

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1969	H1969	2876	MIDDLESEX WAY	38.005537826	-84.5330147429
HLX-1970	H1970	2876	RUNNYMEDE WAY	38.0058506488	-84.5339309203
HLX-1971	H1971	613	SEVERN WAY	38.0065531582	-84.5357065905
HLX-1972	H1972	2042	RAMBLER RD	38.0111817367	-84.5218874615
HLX-1973	H1973	226	CODELL DR	38.0144456085	-84.4548919556
HLX-1974	H1974	265	CODELL DR	38.0158153141	-84.4538479983
HLX-1975	H1975	2429	BUTTERNUT HILL CT	38.0152533755	-84.4527165414
HLX-1976	H1976	2468	BUTTERNUT HILL CT	38.014465259	-84.4539109288
HLX-1977	H1977	2023	EDGEWATER CT	37.9981321084	-84.4700987724
HLX-1978	H1978	984	EDGEWATER DR	37.9990163978	-84.4703910123
HLX-1979	H1979	955	EDGEWATER DR	37.9991769375	-84.4687580054
HLX-1980	H1980	982	LAKELAND DR	37.9982540923	-84.467444045
HLX-1981	H1981	2112	PAIGE CT	37.9970214479	-84.4671102346
HLX-1982	H1982	999	LAKELAND DR	37.9972108513	-84.4683124087
HLX-1983	H1983	909	EDGEWATER DR	37.9976453306	-84.4657499095
HLX-1984	H1984	369	HENRY CLAY BLVD	38.0321676201	-84.4712171057
HLX-1985	H1985	501	HOLLOW CREEK RD	38.0750802039	-84.4783275883
HLX-1986	H1986	529	HOLLOW CREEK RD	38.0760264521	-84.4796500962
HLX-1987	H1987	2197	VERSAILLES RD	38.0472368372	-84.548913072
HLX-1988	H1988	1445	VILLAGE DR	38.0479313613	-84.5489920276
HLX-1989	H1989	1346	VILLAGE DR	38.0488347116	-84.5494218194
HLX-1990	H1990	2224	DEVONPORT DR	38.0487266419	-84.5504107073
HLX-1991	H1991	1302	VILLAGE DR	38.0501105259	-84.549839916
HLX-1992	H1992	2023	RAMBLER RD	38.0121680806	-84.5214124153
HLX-1993	H1993	2070	RAMBLER RD	38.0099483591	-84.5223252007
HLX-1994	H1994	216	DERBY DR	38.0085412096	-84.5227133959
HLX-1995	H1995	2025	LAKESIDE DR	38.0053514262	-84.475827903
HLX-1996	H1996	2425	MIRAHILL DR	38.0198205526	-84.4508382459
HLX-1997	H1997	2452	MIRAHILL DR	38.0190073859	-84.4495171915
HLX-1998	H1998	2421	WINDWOOD CT	38.0184660108	-84.4504004573
HLX-1999	H1999	336	MULBERRY DR	38.0182471651	-84.4514389925
HLX-2000	H2000	300	MULBERRY RD	38.0168319306	-84.4519986043
HLX-2001	H2001	300	CODELL RD	38.0171744038	-84.4533461769
HLX-2002	H2002	356	CODELL RD	38.0187982387	-84.4527397467

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2003	H2003	1100	RUSSELL CAVE RD	38.0656308491	-84.4836870577
HLX-2004	H2004	1124	RUSSELL CAVE RD	38.0663764072	-84.4834565123
HLX-2005	H2005	444	ASBURY LN	38.0776887562	-84.4757427328
HLX-2006	H2006	417	ASBURY LN	38.076977925	-84.4745607978
HLX-2007	H2007	401	ASBURY LN	38.0761467328	-84.4734128569
HLX-2008	H2008	1520	MONTROSE DR	38.0788433543	-84.4809402862
HLX-2009	H2009	1578	LA SALLE RD	38.0794586377	-84.4797119119
HLX-2010	H2010	480	ASBURY LN	38.0794735097	-84.4781265903
HLX-2011	H2011	1690	HILL RISE DR	38.0468206566	-84.5342691028
HLX-2012	H2012	1704	HILL VIEW PL	38.0453318623	-84.5346204473
HLX-2013	H2013	408	PRICE RD	38.068031287	-84.5085633555
HLX-2014	H2014	460	PRICE RD	38.0695616562	-84.5064893898
HLX-2015	H2015	468	ROOSEVELT BLVD	38.0683677944	-84.5045917437
HLX-2017	H2017	409	ROOSEVELT BLVD	38.0675629031	-84.5061495077
HLX-2018	H2018	364	ROOSEVELT BLVD	38.0677284993	-84.5050787303
HLX-2019	H2019	899	MCMEEKIN PL	38.0164292569	-84.4952283717
HLX-2020	H2020	2160	LAKESIDE DR	38.002988791	-84.4779375389
HLX-2021	H2021	2145	LAKESIDE DR	38.0021366065	-84.4763495969
HLX-2022	H2022	2121	LAKESIDE DR	38.0020442439	-84.4752570092
HLX-2023	H2023	2064	LAKESIDE DR	38.0035157285	-84.4742809034
HLX-2024	H2024	1960	CAMBRIDGE DR	38.0513853983	-84.546156252
HLX-2025	H2025	190	CAMBRIDGE DR	38.049246018	-84.5430456601
HLX-2026	H2026	140	BURT RD	38.0073812109	-84.5194153499
HLX-2027	H2027	2312	PALUMBO DR	38.0223539517	-84.4535766154
HLX-2028	H2028	1032	RUSSELL CAVE RD	38.0641317506	-84.4841764006
HLX-2029	H2029	125	PAYNE ST	38.0554784276	-84.5054703023
HLX-2030	H2030	391	LANCELOT LN	37.9840049004	-84.5092688312
HLX-2031	H2031	3333	TATES CREEK RD	37.9963885375	-84.4958203381
HLX-2032	H2032	3355	TATES CREEK RD	37.9955494953	-84.4957011523
HLX-2033	H2033	3389	TATES CREEK RD	37.9939654662	-84.4956512824
HLX-2035	H2035	309	MONTAVESTA RD	38.0035332534	-84.4896171998
HLX-2036	H2036	2985	MONTAVESTA RD	38.0033901193	-84.4872658281
HLX-2037	H2037	378	NOTTINGHAM RD	37.9820097787	-84.5103026349
HLX-2038	H2038	337	NOTTINGHAM RD	37.9832889205	-84.50991009

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2039	H2039	3119	LANSLOWNE DR	38.0002117742	-84.4945741916
HLX-2040	H2040	3222	MONTAVESTA RD	37.9984461663	-84.4944364816
HLX-2041	H2041	70	WESTLAND DR	38.0609116248	-84.5449300426
HLX-2042	H2042	739	WESTLAND DR	38.0597389365	-84.545506125
HLX-2043	H2043	1804	GERALD DR	38.0891453944	-84.4742620999
HLX-2044	H2044	1849	GERALD DR	38.0903299585	-84.4734347803
HLX-2045	H2045	1893	GERALD DR	38.0903199494	-84.4725667553
HLX-2046	H2046	1841	MCCULLOUGH DR	38.0892993495	-84.4718381812
HLX-2047	H2047	1218	WINBURN DR	38.0880248541	-84.4724759895
HLX-2048	H2048	1164	WINBURN DR	38.0886021134	-84.4735281386
HLX-2049	H2049	1750	MCCULLOUGH DR	38.0868931303	-84.4730632542
HLX-2050	H2050	1824	BARKSDALE DR	38.0865324705	-84.4715849129
HLX-2051	H2051	1239	WINBURN DR	38.087369365	-84.4711898895
HLX-2052	H2052	1880	BARKSDALE DR	38.088353645	-84.4707564703
HLX-2053	H2053	1876	BOWEN CT	38.0876796366	-84.4699224385
HLX-2054	H2054	180	BARKSDALE DR	38.0860970229	-84.4701808775
HLX-2055	H2055	1776	BARKSDALE DR	38.0856718879	-84.4688963945
HLX-2056	H2056	1274	WINBURN DR	38.0866549372	-84.46923568
HLX-2057	H2057	1298	WINBURN DR	38.086241155	-84.4676719359
HLX-2058	H2058	1341	DEVONPORT DR	38.0488636256	-84.5541930216
HLX-2059	H2059	1858	ARUNDEL DR	38.0516235599	-84.4490745988
HLX-2060	H2060	1577	MARTHA CT	38.0495071892	-84.450371413
HLX-2061	H2061	742	CHILES AVE	38.066307488	-84.508343491
HLX-2062	H2062	776	BREATHITT AVE	38.0667664198	-84.5076082379
HLX-2063	H2063	744	FLORENCE AVE	38.0670329353	-84.5067621785
HLX-2064	H2064	449	BRADLEY CT	38.0687819925	-84.5056230653
HLX-2065	H2065	150	W ZANDALE DR	38.0088634538	-84.518698815
HLX-2066	H2066	1390	OLIVIA LN	38.0864644117	-84.4884996067
HLX-2067	H2067	217	OSAGE CT	38.0153750888	-84.4507297375
HLX-2068	H2068	293	OSAGE CT	38.0159111696	-84.4500550407
HLX-2070	H2070	524	ANGLIANA AVE	38.0465330851	-84.5153351857
HLX-2071	H2071	867	ANGLIANA AVE	38.0496380624	-84.5160185989
HLX-2073	H2073	2167	N BROADWAY	38.0777436303	-84.4532192261
HLX-2074	H2074	2141	N BROADWAY	38.0774850087	-84.4538295253

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2075	H2075	1047	REDWOOD DR	38.0822451444	-84.5005838175
HLX-2076	H2076	1085	BRIARWOOD DR	38.0818822987	-84.502185687
HLX-2077	H2077	160	THAMES DR	37.9736993609	-84.4797514064
HLX-2078	H2078	3640	RIVER PARK DR	37.9724102795	-84.4792897307
HLX-2079	H2079	2020	CAMBRIDGE DR	38.0530766838	-84.5489346522
HLX-2080	H2080	2045	CAMBRIDGE DR	38.0528916732	-84.5506439971
HLX-2081	H2081	1262	VILLAGE DR	38.0519486182	-84.5509145975
HLX-2082	H2082	2048	DANIEL CT	38.0508338822	-84.5504846926
HLX-2083	H2083	2022	JEFFREY CT	38.0520685431	-84.5496775203
HLX-2084	H2084	2032	DANIEL CT	38.0512268235	-84.5494852629
HLX-2085	H2085	2035	CUMMINS CT	38.0504137501	-84.5490111546
HLX-2086	H2086	442	GREENWOOD AVE	38.0694074602	-84.5054679739
HLX-2087	H2087	3443	SUTHERLAND DR	37.9873607898	-84.4824465265
HLX-2089	H2089	2505	LARKIN RD	37.9998260082	-84.5158487185
HLX-2090	H2090	2504	LARKIN RD	37.9996147273	-84.5166763291
HLX-2091	H2091	1103	KELSEY DR	38.057899411	-84.5518244876
HLX-2092	H2092	1076	KELSEY DR	38.0582666386	-84.5500722652
HLX-2093	H2093	1147	KILRUSH DR	38.0571845198	-84.5503963954
HLX-2094	H2094	1175	KILRUSH DR	38.0564258637	-84.5509727104
HLX-2098	H2098	2520	LARKIN RD	38.0173418804	-84.5657270799
HLX-2099	H2099	2611	WILHITE DR	37.9977438391	-84.5173447952
HLX-2100	H2100	1345	OLD FRANKFORT PIKE	38.0579386037	-84.5272758952
HLX-2102	H2102	1369	ALEXANDRIA DR	38.0495042026	-84.5523907891
HLX-2103	H2103	2078	RAINBOW RD	38.009160664	-84.5211876209
HLX-2104	H2104	2036	REGENCY RD	38.0122569702	-84.5226549192
HLX-2105	H2105	2056	REGENCY RD	38.0111956884	-84.523136718
HLX-2106	H2106	3516	CAMELOT DR	37.9817958238	-84.509029175
HLX-2107	H2107	3501	CAMELOT DR	37.9827226783	-84.5087074937
HLX-2108	H2108	455	LANCELOT LN	37.9813822404	-84.5078638311
HLX-2109	H2109	1060	WINBURN DR	38.0876177011	-84.479086777
HLX-2110	H2110	1101	WINBURN DR	38.0895564778	-84.4764335822
HLX-2111	H2111	457	ASBURY LN	38.0784492715	-84.4767579836
HLX-2112	H2112	1578	MONTROSE DR	38.079965224	-84.4805535884
HLX-2113	H2113	2432	WOODHILL DR	38.0163832626	-84.4510343787

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 58 of 252
HLX-2114	H2114	40	PARK PL	38.0675481609	-84.4820440597
HLX-2115	H2115	845	ANGLIANA AVE	38.0481516831	-84.5157255612
HLX-2116	H2116	597	ANGLIANA AVE	38.045794441	-84.5151514928
HLX-2117	H2117	497	ANGLIANA AVE	38.0448864462	-84.514380927
HLX-2118	H2118	1721	HILL RISE DR	38.0465886278	-84.5361007955
HLX-2119	H2119	1321	NANCY HANKS RD	38.0472256167	-84.5222960485
HLX-2120	H2120	1143	OAKWOOD DR	38.0831862117	-84.5060705395
HLX-2121	H2121	1597	KILKENNY DR	38.052951207	-84.4498503461
HLX-2122	H2122	1744	LIBERTY RD	38.0341704396	-84.4604442241
HLX-2123	H2123	1776	LIBERTY RD	38.0332352698	-84.4596802456
HLX-2124	H2124	802	N BROADWAY	38.0599595949	-84.4837996777
HLX-2125	H2125	1724	VERSAILLES RD	38.048223858	-84.5366644021
HLX-2126	H2126	2037	BUCK LN	38.0840770076	-84.5361492686
HLX-2127	H2127	1997	CAMBRIDGE DR	38.0524504363	-84.5477849057
HLX-2128	H2128	1234	MAN O WAR PL	38.0325731176	-84.5198529849
HLX-2131	H2131	1575	ELSTON DR	38.0768250649	-84.4765828103
HLX-2132	H2132	417	KILPATRICK CT	38.075668766	-84.4749349057
HLX-2133	H2133	541	ASBURY LN	38.0815169665	-84.4809034589
HLX-2134	H2134	1570	VAN BUREN DR	38.0808571439	-84.4824703714
HLX-2135	H2135	1518	VAN BUREN DR	38.080348697	-84.4818808637
HLX-2136	H2136	150	E NEW CIRCLE RD	38.0222636046	-84.4551650048
HLX-2137	H2137	2306	PALUMBO DR	38.0225280898	-84.4543652069
HLX-2138	H2138	50	CODELL DR	38.0218154992	-84.4514367808
HLX-2139	H2139	2375	PALUMBO DR	38.0214412859	-84.4505453583
HLX-2140	H2140	140	ALEXANDRIA DR	38.0485727656	-84.5524486703
HLX-2141	H2141	112	E VINE ST	38.0450303772	-84.4974097076
HLX-2143	H2143	260	E VINE ST	38.042565978	-84.4947056007
HLX-2144	H2144	1149	CAYWOOD DR	38.0566189084	-84.552334701
HLX-2145	H2145	1143	KELSEY DR	38.0569202496	-84.5536694385
HLX-2148	H2148	444	TRANSPORT CT	38.0789648347	-84.5304346359
HLX-2149	H2149	461	TRANSPORT CT	38.0799642185	-84.5302665225
HLX-2150	H2150	1508	VERSAILLES RD	38.0491115484	-84.529080431
HLX-2151	H2151	160	COX ST	38.051714049	-84.5084229299
HLX-2152	H2152	2016	BUCK LN	38.0836516205	-84.5354130363

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2153	H2153	411	DOUGLAS AVE	38.0649304565	-84.507438097
HLX-2154	H2154	439	DOUGLAS AVE	38.0655874389	-84.5059502192
HLX-2155	H2155	455	DOUGLAS AVE	38.066090967	-84.5047636776
HLX-2156	H2156	452	LINDBERG DR	38.0670093179	-84.5048700822
HLX-2157	H2157	841	GEORGETOWN ST	38.0693037751	-84.5040650417
HLX-2158	H2158	1032	MAJAUN RD	38.0794603135	-84.5074676902
HLX-2159	H2159	1079	MAJAUN RD	38.0798236973	-84.5061487864
HLX-2160	H2160	1105	NANDINO BLVD	38.0781774454	-84.5055980454
HLX-2161	H2161	441	REDDING RD	37.983202302	-84.4947946983
HLX-2163	H2163	3394	PIMLICO PKY	37.9872309403	-84.475537907
HLX-2164	H2164	1296	MAYWOOD PK	37.9888504216	-84.4743654403
HLX-2165	H2165	1295	OAKLAWN PK	37.9898595089	-84.4736576586
HLX-2166	H2166	110	ARMSTRONG MILL RD	37.9815811524	-84.4916472037
HLX-2167	H2167	563	HASKINS DR	38.066891938	-84.4986020145
HLX-2168	H2168	2217	NICHOLASVILLE RD	38.0085290581	-84.5178195342
HLX-2169	H2169	2196	LAKESIDE DR	38.0054441491	-84.4776996058
HLX-2170	H2170	404	W MAIN ST	38.04950821	-84.5009046885
HLX-2171	H2171	0	W VINE ST	38.0489790112	-84.5010954503
HLX-2172	H2172	369	W VINE ST	38.0481952777	-84.500691565
HLX-2173	H2173	201	W VINE ST	38.0465859459	-84.4990761031
HLX-2174	H2174	104	W VINE ST	38.0457593958	-84.4981680474
HLX-2175	H2175	101	E VINE ST	38.0452771981	-84.4973201087
HLX-2177	H2177	230	WATER ST	38.04446559	-84.49650245
HLX-2178	H2178	242	WATER ST	38.04329	-84.49463
HLX-2179	H2179	251	WATER ST	38.0432251499	-84.4945102881
HLX-2180	H2180	271	WATER ST	38.0427790298	-84.4941192901
HLX-2181	H2181	136	ROSE ST	38.0422824853	-84.4936508429
HLX-2182	H2182	360	E VINE ST	38.0414106107	-84.4927974003
HLX-2183	H2183	40	E VINE ST	38.0409417141	-84.4922150755
HLX-2184	H2184	40	E VINE ST	38.0412458195	-84.4920598358
HLX-2185	H2185	40	E MAIN ST	38.0409320271	-84.491494049
HLX-2186	H2186	2558	LARKIN RD	38.0006599494	-84.5200501893
HLX-2187	H2187	2601	NICHOLASVILLE RD	37.9991987965	-84.5207351368
HLX-2189	H2189	1067	WHIPPLE CT	38.0806476218	-84.5037590629

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2190	H2190	1020	WHIPPLE CT	38.0799667082	-84.5022336966
HLX-2191	H2191	1025	NANDINO BLVD	38.0785953392	-84.5019567774
HLX-2192	H2192	1070	BRENTWOOD CT	38.0796719759	-84.4997318095
HLX-2193	H2193	1038	BRENTWOOD CT	38.0784277566	-84.4991975005
HLX-2194	H2194	968	NANDINO BLVD	38.0769736688	-84.4998043862
HLX-2195	H2195	1527	THAMES DR	37.9716854295	-84.4777775625
HLX-2196	H2196	2466	PLUMTREE CT	38.0167570411	-84.4495045585
HLX-2197	H2197	2402	PALUMBO DR	38.0207537897	-84.449585
HLX-2198	H2198	180	SPRUCE ST	38.0455901965	-84.4913850286
HLX-2199	H2199	1133	BOXWOOD DR	38.0846767474	-84.5055490253
HLX-2200	H2200	1823	COSTIGAN DR	38.0886946687	-84.4810860172
HLX-2201	H2201	1853	COSTIGAN DR	38.0894121239	-84.4795698847
HLX-2202	H2202	1857	RITTENHOUSE CT	38.0899908421	-84.4802865301
HLX-2203	H2203	1057	PENNEBAKER DR	38.0913787053	-84.4794640668
HLX-2204	H2204	1037	PENNEBAKER DR	38.0908647455	-84.4784836553
HLX-2205	H2205	1081	DOVE RUN RD	37.9972205773	-84.4934446904
HLX-2206	H2206	3338	MONTAVESTA RD	37.9970095741	-84.4920683707
HLX-2208	H2208	369	PEACHTREE RD	38.0180876869	-84.448277105
HLX-2209	H2209	341	PEACHTREE RD	38.0177160539	-84.4493487062
HLX-2210	H2210	2472	WOODHILL DR	38.0153684885	-84.4490820305
HLX-2211	H2211	413	PEACHTREE RD	38.0169410326	-84.4466599318
HLX-2212	H2212	1771	HARRODSBURG RD	38.0299581396	-84.5302727136
HLX-2213	H2213	272	DERBY DR	38.0096833359	-84.5248566962
HLX-2214	H2214	2088	REGENCY RD	38.0098946403	-84.5236426213
HLX-2215	H2215	210	REGENCY RD	38.0089272588	-84.5241629211
HLX-2216	H2216	3355	TATES CREEK RD	37.9955045364	-84.4952497121
HLX-2217	H2217	1025	DOVE RUN RD	37.9960719953	-84.4940768959
HLX-2219	H2219	1208	COLONIAL DR	38.0451297424	-84.5591611354
HLX-2220	H2220	1233	COLONIAL DR	38.0430933937	-84.5606122856
HLX-2221	H2221	1264	COLONIAL DR	38.0404494849	-84.5622784898
HLX-2222	H2222	1248	STANDISH WAY	38.0423511188	-84.5630512367
HLX-2223	H2223	3607	NICHOLASVILLE RD	37.9862546653	-84.5263617148
HLX-2224	H2224	3395	NICHOLASVILLE RD	37.9886988076	-84.5252912203
HLX-2225	H2225	3301	NICHOLASVILLE RD	37.9904743664	-84.5243432354

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2226	H2226	160	E NEW CIRCLE RD	38.0177558202	-84.4568716035
HLX-2227	H2227	0	E NEW CIRCLE RD	38.0242105402	-84.4537424292
HLX-2228	H2228	1607	VERSAILLES RD	38.0486758653	-84.5326289551
HLX-2229	H2229	420	LIMA DR	38.0738992327	-84.5117961047
HLX-2230	H2230	394	LIMA DR	38.0739769851	-84.5124169663
HLX-2231	H2231	475	LAKETOWER DR	38.01041915	-84.47058694
HLX-2232	H2232	515	LAKETOWER DR	38.0088530676	-84.4693124285
HLX-2233	H2233	507	LAKETOWER DR	38.0091207742	-84.4706017014
HLX-2234	H2234	1825	LIBERTY RD	38.0321700987	-84.4582701196
HLX-2235	H2235	2358	NICHOLASVILLE RD	38.0040936984	-84.519001815
HLX-2236	H2236	2655	TATES CREEK RD	38.0124769931	-84.495497984
HLX-2237	H2237	110	WINCHESTER RD	38.0422230667	-84.4662893227
HLX-2238	H2238	1140	WINCHESTER RD	38.042620853	-84.4613122176
HLX-2239	H2239	328	LARKWOOD DR	38.0156824958	-84.4467359338
HLX-2240	H2240	374	LARKWOOD DR	38.0159941656	-84.4455133967
HLX-2241	H2241	417	HEDGEWOOD DR	38.0151505005	-84.4462465334
HLX-2242	H2242	230	WOODHILL DR	38.0175105669	-84.45575556
HLX-2243	H2243	2350	WOODHILL DR	38.0173430935	-84.4548755245
HLX-2244	H2244	3051	KIRKLEVINGTON DR	37.9892159403	-84.4959265549
HLX-2245	H2245	402	MACADAM DR	37.9875647697	-84.4988799784
HLX-2246	H2246	3050	KIRKLEVINGTON DR	37.988683721	-84.4979878103
HLX-2247	H2247	575	MERRIMAC DR	37.9891360001	-84.5515587408
HLX-2248	H2248	591	MERRIMAC DR	37.9905991347	-84.552695203
HLX-2249	H2249	552	CROMWELL WAY	37.9868829591	-84.5513733716
HLX-2250	H2250	1037	WINBURN DR	38.0885770444	-84.4782709729
HLX-2251	H2251	1725	N BROADWAY	38.069774942	-84.4680864734
HLX-2253	H2253	201	SIMPSON AVE	38.0345197601	-84.5155728737
HLX-2254	H2254	1713	COSTIGAN DR	38.0914868068	-84.4801293294
HLX-2255	H2255	1749	COSTIGAN DR	38.0901438812	-84.4812954738
HLX-2256	H2256	1898	BALFOUR DR	38.0918597473	-84.4812599167
HLX-2257	H2257	1871	BALFOUR DR	38.0906249095	-84.4823254471
HLX-2258	H2258	1843	BALFOUR DR	38.0896147084	-84.4831691439
HLX-2259	H2259	1531	LA SALLE RD	38.0782524503	-84.481769822
HLX-2260	H2260	640	CARVER RD	38.0796560737	-84.4834229198

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2261	H2261	524	CODELL DR	38.0231252636	-84.4509677884
HLX-2262	H2262	250	OSAGE CT	38.0147578596	-84.4498183428
HLX-2263	H2263	468	COOPER DR	38.0254955363	-84.5020783141
HLX-2265	H2265	2957	MONTAVESTA RD	38.0027284166	-84.485892295
HLX-2266	H2266	2938	MONTAVESTA RD	38.0012429386	-84.4866465987
HLX-2267	H2267	2921	MONTAVESTA RD	38.0007679683	-84.4878403573
HLX-2268	H2268	3653	RIVER PARK DR	37.971602479	-84.4798699696
HLX-2269	H2269	3697	RIVER PARK DR	37.9704874964	-84.4807201595
HLX-2270	H2270	1392	TRENT BLVD	37.9697214569	-84.4798110312
HLX-2271	H2271	1275	TRENT BLVD	37.9705730443	-84.481746711
HLX-2272	H2272	1951	STANTON WAY	38.1026996924	-84.4845946562
HLX-2273	H2273	1325	TANFORAN DR	37.9896625345	-84.4712037712
HLX-2274	H2274	1288	TANFORAN CT	37.9908418925	-84.4733402551
HLX-2275	H2275	1291	NARRAGANSETT PK	37.9912669631	-84.472442574
HLX-2276	H2276	3278	AQUEDUCT DR	37.9920819455	-84.4707881467
HLX-2277	H2277	3280	WATERFORD PK	37.9912244292	-84.4700641432
HLX-2278	H2278	1225	CENTER PKY	37.9804935226	-84.4813963654
HLX-2279	H2279	1262	CENTER PKY	37.9797755521	-84.4788451518
HLX-2280	H2280	1252	KEENELAND CT	37.9788448182	-84.4804059683
HLX-2281	H2281	3563	CAULDER RD	37.9791187296	-84.4820081253
HLX-2282	H2282	1252	HOT SPRINGS CT	37.9779904831	-84.4810091178
HLX-2283	H2283	1253	HIALEIAH CT	37.9772720214	-84.4814096308
HLX-2284	H2284	3599	CAULDER RD	37.9776230073	-84.483226336
HLX-2285	H2285	360	GRACE DR	37.9756543402	-84.479890586
HLX-2286	H2286	3640	GRACE DR	37.9743022852	-84.480983665
HLX-2287	H2287	1343	STEPHEN FOSTER DR	37.9756432617	-84.4812945692
HLX-2288	H2288	1336	OX HILL DR	37.9727889269	-84.4817852281
HLX-2289	H2289	1379	STEPHEN FOSTER DR	37.9745384426	-84.4821926608
HLX-2290	H2290	205	CODELL DR	38.0131557631	-84.4546434214
HLX-2291	H2291	0	OLD TODDS RD	38.0121181018	-84.4507767742
HLX-2292	H2292	20	ALSAB CT	38.0127796681	-84.4521052927
HLX-2293	H2293	2656	CHANT CT	38.0128411688	-84.4505334395
HLX-2294	H2294	307	ALSAB CT	38.0133747662	-84.4527445787
HLX-2295	H2295	1912	PORT ROYAL CT	38.0455457627	-84.5487852471

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2296	H2296	1529	PORT ROYAL DR	38.0465750394	-84.5471320119
HLX-2297	H2297	1501	ROANOKE RD	38.0462488763	-84.5500952702
HLX-2298	H2298	240	MIRAHILL DR	38.0203318609	-84.452209261
HLX-2299	H2299	543	LAKETOWER DR	38.0094175658	-84.4669552276
HLX-2300	H2300	1066	VALLEY FARM DR	38.0923890573	-84.4791990494
HLX-2301	H2301	1052	VALLEY FARM DR	38.0919429238	-84.4783470036
HLX-2302	H2302	1910	BEDINGER CT	38.091454661	-84.4775035952
HLX-2303	H2303	1016	VALLEY FARM DR	38.0909822035	-84.4766194939
HLX-2304	H2304	996	VALLEY FARM DR	38.0906925975	-84.4756380306
HLX-2305	H2305	972	VALLEY FARM DR	38.0904023372	-84.4746800276
HLX-2306	H2306	2012	BRIDGEPORT DR	38.0080440296	-84.4729753738
HLX-2307	H2307	496	SEELEY DR	38.0077158752	-84.4713570489
HLX-2308	H2308	516	LAKESHORE DR	38.006761396	-84.4707514946
HLX-2309	H2309	532	LAKESHORE DR	38.005814428	-84.4704230813
HLX-2310	H2310	2051	BRIDGEPORT DR	38.00634	-84.47322
HLX-2311	H2311	297	HEDGEWOOD CT	38.0142691447	-84.4476248778
HLX-2312	H2312	234	HEDGEWOOD CT	38.0134167869	-84.4492918105
HLX-2313	H2313	355	COOPER DR	38.02183847	-84.49330316
HLX-2314	H2314	363	COOPER DR	38.0265561454	-84.5062843628
HLX-2315	H2315	1515	GAIDRY RD	38.0456575152	-84.4478447872
HLX-2316	H2316	1623	GRANT DR	38.0767989113	-84.4824684499
HLX-2317	H2317	1490	GRANT DR	38.0767962737	-84.4809610059
HLX-2318	H2318	1550	GRANT DR	38.0756413222	-84.4830192375
HLX-2319	H2319	1537	GREEN HILLS RD	38.047106467	-84.4460058199
HLX-2320	H2320	1513	GREEN HILLS RD	38.0467841101	-84.447766579
HLX-2321	H2321	3380	MONTAVESTA RD	37.9972488349	-84.4896555938
HLX-2322	H2322	2091	VON LIST WAY	38.0123112216	-84.4737875253
HLX-2323	H2323	445	LAKESHORE DR	38.011220486	-84.4726723585
HLX-2324	H2324	461	LAKESHORE DR	38.0099473597	-84.47242472
HLX-2325	H2325	3393	TATES CREEK RD	37.9930035084	-84.4955726043
HLX-2326	H2326	866	MALABU DR	37.9921760451	-84.4965387155
HLX-2327	H2327	515	LISA DR	38.0807309058	-84.4569888112
HLX-2328	H2328	1573	KILKENNY DR	38.0521560522	-84.4508320053
HLX-2329	H2329	3304	WOOD VALLEY CT	37.9962539489	-84.4904602184

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2330	H2330	3330	WOOD VALLEY CT	37.9948012671	-84.4902271505
HLX-2331	H2331	3377	MOUNDVIEW CT	37.9960253362	-84.4925746531
HLX-2332	H2332	3471	WARWICK CT	37.9893593335	-84.5091492645
HLX-2333	H2333	3446	WARWICK CT	37.9905034068	-84.5083928247
HLX-2334	H2334	3449	BELLMEADE RD	37.9910068771	-84.5093716622
HLX-2335	H2335	497	SEVERN WAY	38.0060334262	-84.5298471682
HLX-2336	H2336	441	SEVERN WAY	38.0033236112	-84.5308772089
HLX-2337	H2337	409	SEVERN WAY	38.0020648229	-84.5318725512
HLX-2338	H2338	2916	ARK ROYAL WAY	38.00358672	-84.5318706288
HLX-2339	H2339	2889	ARK ROYAL WAY	38.0048589119	-84.5319449949
HLX-2340	H2340	3281	TISDALE DR	37.9920409723	-84.5517779423
HLX-2341	H2341	3317	TISDALE DR	37.9911865325	-84.5495681118
HLX-2342	H2342	3374	TISDALE DR	37.989526616	-84.5483339973
HLX-2343	H2343	3409	FRASERDALE DR	37.9904519944	-84.5504313578
HLX-2344	H2344	3579	NIAGARA DR	37.9681486898	-84.4787013818
HLX-2345	H2345	3639	NIAGARA DR	37.9702875579	-84.4771540032
HLX-2346	H2346	3694	NIAGARA DR	37.9692416326	-84.4789148179
HLX-2347	H2347	1394	DIX DR	37.9670594007	-84.4807385426
HLX-2348	H2348	3773	RED RIVER DR	37.9683041422	-84.4817447392
HLX-2349	H2349	3342	PEPPERHILL RD	37.9959025169	-84.488429795
HLX-2350	H2350	3270	PEPPERHILL RD	37.9989178125	-84.4901991823
HLX-2351	H2351	3238	PEPPERHILL RD	37.9998300184	-84.4879294864
HLX-2352	H2352	1356	TANFORAN DR	37.9887979129	-84.4694861348
HLX-2353	H2353	3255	PIMLICO PKY	37.9900246571	-84.4682719836
HLX-2355	H2355	3251	AQUEDUCT DR	37.9929294816	-84.4691473945
HLX-2356	H2356	30	HICKORY ST	38.058753086	-84.5025381725
HLX-2357	H2357	50	BOB-O-LINK DR	38.0302079598	-84.5238586195
HLX-2358	H2358	433	LARKWOOD DR	38.0143851616	-84.4431272602
HLX-2359	H2359	413	LARKWOOD DR	38.01489434	-84.4437899052
HLX-2360	H2360	397	LARKWOOD DR	38.0153905825	-84.4445237156
HLX-2361	H2361	1290	CENTER PKY	37.9800153697	-84.4772130081
HLX-2362	H2362	3503	RIVER PARK DR	37.9788365315	-84.476907651
HLX-2363	H2363	3526	RIVER PARK DR	37.9780189081	-84.4766496845
HLX-2364	H2364	3562	RIVER PARK DR	37.9765647366	-84.4767756184

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2365	H2365	3599	RIVER PARK DR	37.9752054032	-84.4775396526
HLX-2366	H2366	1260	ASCOT PK	37.9759128676	-84.4786288177
HLX-2367	H2367	1260	AK-SAR-BEN PK	37.9766640458	-84.4782713915
HLX-2368	H2368	1260	ATOKAD PK	37.9779330078	-84.4780842689
HLX-2369	H2369	2700	RICHMOND RD	38.0087563945	-84.4549752806
HLX-2370	H2370	153	PATCHEN DR	38.0080537754	-84.456109295
HLX-2371	H2371	255	PATCHEN DR	38.0067658751	-84.4578137656
HLX-2372	H2372	2755	GRIBBIN DR	38.0062439327	-84.4546506035
HLX-2373	H2373	865	LANE ALLEN RD	38.0303475199	-84.5414425509
HLX-2374	H2374	2548	LARKIN RD	38.0004622854	-84.5187543103
HLX-2375	H2375	731	SHROPSHIRE AVE	38.0503953189	-84.4761885891
HLX-2376	H2376	1126	RUSSELL CAVE RD	38.0671273327	-84.4827298165
HLX-2377	H2377	1273	DALE DR	37.9735759462	-84.4864688491
HLX-2378	H2378	130	DALE DR	37.9729361444	-84.4851973044
HLX-2379	H2379	1325	DALE DR	37.9722981682	-84.4838078784
HLX-2380	H2380	1234	TRENT BLVD	37.9709237046	-84.4841502883
HLX-2381	H2381	3737	RED RIVER DR	37.9693611072	-84.4846334355
HLX-2382	H2382	1441	DALE DR	37.9690853033	-84.4833518702
HLX-2383	H2383	60	TEAK WOOD DR	38.0147328807	-84.488242339
HLX-2384	H2384	625	TEAK WOOD DR	38.0133326853	-84.4882524406
HLX-2385	H2385	649	TEAK WOOD DR	38.0115068344	-84.4881854424
HLX-2386	H2386	624	TALLY RD	38.012568077	-84.4870624666
HLX-2387	H2387	993	TURKEY FOOT RD	38.0141913883	-84.4862231122
HLX-2388	H2388	1025	TURKEY FOOT RD	38.0125516081	-84.4857343685
HLX-2389	H2389	795	WARD DR	38.0903079013	-84.4706889233
HLX-2390	H2390	826	WARD DR	38.0912592859	-84.4719429993
HLX-2391	H2391	872	WARD DR	38.0920154238	-84.4732899287
HLX-2392	H2392	904	WARD DR	38.0931290049	-84.4757990141
HLX-2393	H2393	956	WARD DR	38.0942940034	-84.4783600975
HLX-2394	H2394	458	WOODLAKE WAY	38.0190757382	-84.4912509047
HLX-2395	H2395	973	PRIMROSE CT	38.0769713515	-84.5030309038
HLX-2396	H2396	2052	VON LIST WAY	38.0107539681	-84.4758217594
HLX-2397	H2397	2067	MANOR DR	38.0100071379	-84.474587653
HLX-2398	H2398	2076	NORBORNE DR	38.0089380661	-84.4737538834

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2399	H2399	350	WARWICK DR	37.9880773466	-84.5097542565
HLX-2400	H2400	2424	PALUMBO DR	38.0200139161	-84.4485379884
HLX-2401	H2401	2450	PALUMBO DR	38.0192267438	-84.447476769
HLX-2402	H2402	2456	PALUMBO DR	38.0184223879	-84.4463718466
HLX-2403	H2403	2471	PALUMBO DR	38.0176658382	-84.4453580493
HLX-2404	H2404	2493	PALUMBO DR	38.0169797441	-84.444355091
HLX-2405	H2405	2512	PALUMBO DR	38.0162837339	-84.4433924411
HLX-2406	H2406	1180	MANCHESTER ST	38.0559788734	-84.5172601505
HLX-2407	H2407	1210	MANCHESTER ST	38.0566718638	-84.5192300661
HLX-2408	H2408	290	BIG RUN RD	38.0006104724	-84.5313146399
HLX-2430	H2430	501	S LIMESTONE	38.0396913324	-84.5069648124
HLX-2433	H2433	1716	BON-AIR DR	38.0293033388	-84.4724330051
HLX-2434	H2434	1724	FAIRWAY DR	38.0279601752	-84.474355575
HLX-2435	H2435	316	MARIEMONT DR	38.0641755486	-84.4572197322
HLX-2436	H2436	1613	CAROLYN DR	38.0344531019	-84.4667040416
HLX-2437	H2437	368	QUEENSWAY DR	38.0308319939	-84.4689381158
HLX-2438	H2438	401	HILLTOP AVE	38.0311162859	-84.5009469094
HLX-2439	H2439	1425	DELAWARE AVE	38.0370274413	-84.4683290203
HLX-2440	H2440	1668	LIBERTY RD	38.0363286173	-84.4625042605
HLX-2441	H2441	427	HOLIDAY RD	38.032260135	-84.4657553192
HLX-2442	H2442	1823	NICHOLASVILLE RD	38.0169191174	-84.5148529063
HLX-2443	H2443	1806	CLAYS MILL RD	38.027821147	-84.5300280629
HLX-2444	H2444	1130	LIBERTY RD	38.0386472442	-84.4658115259
HLX-2446	H2446	225	TAYLOR DR	38.0703120942	-84.5275361363
HLX-2447	H2447	313	GLENDALE AVE	38.0731820744	-84.5246845431
HLX-2448	H2448	309	HILLSBORO AVE	38.0726560876	-84.5235668368
HLX-2449	H2449	209	BOILING SPRINGS DR	38.0683928195	-84.5244732252
HLX-2450	H2450	341	BOILING SPRINGS DR	38.0733681241	-84.5218527407
HLX-2451	H2451	558	SHERIDAN DR	38.0186671067	-84.5320587369
HLX-2452	H2452	565	STRATFORD DR	38.0181518561	-84.5328568784
HLX-2453	H2453	0	ST JOSEPH DR	38.0309943419	-84.5222454734
HLX-2454	H2454	138	TAHOMA RD	38.0127355825	-84.5117897545
HLX-2455	H2455	1949	NICHOLASVILLE RD	38.0125103392	-84.5163338437
HLX-2457	H2457	1849	EDGEWORTH DR	38.0685239792	-84.456480805

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2458	H2458	2038	CLAYS MILL RD	38.0227441685	-84.5326536237
HLX-2462	H2462	3245	TATES CREEK RD	37.9996687878	-84.4961484613
HLX-2463	H2463	275	LARCH LN	38.069919725	-84.5223105401
HLX-2464	H2464	232	BURKE RD	38.0679197306	-84.5219090696
HLX-2465	H2465	147	S FORBES RD	38.0617072206	-84.5222449532
HLX-2466	H2466	20	BARBERRY LN	38.0227323704	-84.5160648603
HLX-2467	H2467	530	ARCADIA PK	38.0215384043	-84.5174014025
HLX-2468	H2468	411	ROSEMONT GDN	38.0219184802	-84.5277610556
HLX-2469	H2469	1802	LAKESWOOD DR	38.0081311468	-84.4827153402
HLX-2470	H2470	247	SHADY LN	38.0127349087	-84.5066454622
HLX-2471	H2471	265	ALBANY RD	38.0078858974	-84.5096423255
HLX-2472	H2472	1318	VERSAILLES RD	38.0496453217	-84.5238953875
HLX-2473	H2473	1318	VERSAILLES RD	38.0496806911	-84.5234022591
HLX-2474	H2474	638	LONGVIEW DR	38.0218897056	-84.5376443544
HLX-2475	H2475	268	MOCKINGBIRD LN	38.0275252161	-84.519734516
HLX-2476	H2476	2220	CLAYS MILL RD	38.019608957	-84.5343722617
HLX-2477	H2477	1479	TOWNLEY DR	38.0686745208	-84.5189656614
HLX-2478	H2478	1456	MEADOWTHORPE AVE	38.0667525332	-84.5198833722
HLX-2479	H2479	1426	N LIMESTONE	38.0636429421	-84.4722967927
HLX-2480	H2480	1389	W MAIN ST	38.0636657076	-84.5203517197
HLX-2481	H2481	1499	LEESTOWN RD	38.0656861149	-84.5232595932
HLX-2483	H2483	918	CELIA LN	38.0395691727	-84.5391697288
HLX-2484	H2484	1774	NORMANDY RD	38.0362080108	-84.5405300387
HLX-2486	H2486	175	JESSELIN DR	38.0097372722	-84.5118452533
HLX-2487	H2487	204	E LOWRY LN	38.0044914114	-84.5141214154
HLX-2488	H2488	304	E LOWRY LN	38.0025359603	-84.5081397773
HLX-2489	H2489	505	NORTHSIDE DR	38.06239	-84.44947
HLX-2490	H2490	504	ST ANTHONY DR	38.0621082514	-84.4511873833
HLX-2494	H2494	441	FAIRFIELD DR	38.0141461513	-84.5328681208
HLX-2495	H2495	2562	SOUTHVIEW DR	38.0115700978	-84.5337683845
HLX-2496	H2496	560	CLAYMONT DR	38.012963567	-84.5363563419
HLX-2497	H2497	262	CLEARVIEW DR	38.0097646686	-84.5294426578
HLX-2498	H2498	285	HILL-N-DALE RD	38.0093354605	-84.5310790864
HLX-2499	H2499	950	CELIA LN	38.0406959151	-84.5408587017

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 68 of 252
HLX-2500	H2500	955	DELLA DR	38.0370715271	-84.5429418194
HLX-2502	H2502	898	MAYWICK DR	38.0316918553	-84.5438916396
HLX-2503	H2503	263	ZANDALE DR	38.0059005392	-84.5109778895
HLX-2511	H2511	978	CELIA LN	38.0417239405	-84.5426870518
HLX-2512	H2512	981	DELLA DR	38.037778145	-84.5448826996
HLX-2513	H2513	440	LIN WAL RD	38.0740346829	-84.463226135
HLX-2514	H2514	585	LAMONT DR	38.0102846997	-84.537537737
HLX-2515	H2515	1202	INDUSTRY RD	38.0486057529	-84.4576310644
HLX-2516	H2516	566	SEATTLE DR	38.0118823052	-84.5406953206
HLX-2517	H2517	1928	APPOMATTOX RD	38.0358944805	-84.548779948
HLX-2518	H2518	956	MAYWICK DR	38.0326368807	-84.5478290103
HLX-2519	H2519	648	SPRINGRIDGE DR	38.0225939875	-84.5364715383
HLX-2520	H2520	674	SPRINGHURST DR	38.0238154499	-84.5367126488
HLX-2521	H2521	1642	DUNTREATH DR	38.0445174444	-84.5389345867
HLX-2522	H2522	914	WOLF RUN DR	38.0414871234	-84.5372342133
HLX-2524	H2524	1936	ALEXANDRIA DR	38.0327943149	-84.549348913
HLX-2525	H2525	461	PASADENA DR	38.0092823414	-84.5330625099
HLX-2526	H2526	2801	SOUTHVIEW DR	38.0092976701	-84.535558673
HLX-2527	H2527	1026	DELLA DR	38.039986063	-84.5472127238
HLX-2528	H2528	1020	CELIA LN	38.0423252698	-84.5462848198
HLX-2529	H2529	705	SHERIDAN DR	38.0209740058	-84.5416923068
HLX-2530	H2530	674	SHERIDAN DR	38.02113216	-84.5392855998
HLX-2536	H2536	359	GREENBRIAR RD	38.0050711213	-84.505637724
HLX-2537	H2537	608	CECIL WAY	38.0100223709	-84.5422561794
HLX-2538	H2538	639	PASADENA DR	38.0144935941	-84.5446172017
HLX-2539	H2539	305	BLUEBERRY RD	38.0093275495	-84.5069619171
HLX-2540	H2540	329	ZANDALE DR	38.0031879622	-84.5053460761
HLX-2541	H2541	1	LANSDOWNE ESTATES	37.9996627467	-84.5022830006
HLX-2542	H2542	649	E NEW CIRCLE RD	38.0502434438	-84.4552356106
HLX-2543	H2543	667	E NEW CIRCLE RD	38.0498926604	-84.4548642785
HLX-2544	H2544	1050	RUSSELL CAVE RD	38.0650670012	-84.4840246625
HLX-2546	H2546	639	SEATTLE DR	38.0125221185	-84.5458808025
HLX-2547	H2547	125	E LOWRY LN	38.0053701887	-84.5170394174
HLX-2548	H2548	763	SHERWOOD DR	38.0025207704	-84.502044904

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2549	H2549	799	ROBIN RD	38.0028888831	-84.4996169931
HLX-2550	H2550	1929	VICKSBURG RD	38.0344622265	-84.5446864213
HLX-2552	H2552	1856	TRAVELLER RD	38.0345123203	-84.5534384565
HLX-2555	H2555	798	MASON HEADLEY RD	38.0377458801	-84.5330071045
HLX-2556	H2556	856	CELIA LN	38.0384741944	-84.5368504935
HLX-2557	H2557	311	LAFAYETTE PKY	38.0267017831	-84.5265693819
HLX-2558	H2558	471	SPRINGHILL DR	38.0270160744	-84.5237808801
HLX-2559	H2559	411	SPRINGHILL DR	38.025333024	-84.5211901038
HLX-2560	H2560	644	WICHITA DR	38.0168947124	-84.5462071595
HLX-2561	H2561	60	WICHITA DR	38.014492955	-84.5415990051
HLX-2562	H2562	415	E NEW CIRCLE RD	38.0567807176	-84.4614534885
HLX-2563	H2563	590	ALBANY RD	38.0049351492	-84.5025905335
HLX-2564	H2564	844	LAUREL HILL RD	38.0350953106	-84.5361750942
HLX-2565	H2565	479	WESTERFIELD WAY	38.0052115425	-84.5357612332
HLX-2566	H2566	654	HILL-N-DALE RD	38.0164782285	-84.5423809248
HLX-2567	H2567	230	TULSA RD	38.0197361441	-84.5427015641
HLX-2568	H2568	3257	LANSDOWNE DR	37.9987471854	-84.4993526638
HLX-2569	H2569	701	BROOKHILL DR	37.9978307108	-84.5058920056
HLX-2570	H2570	802	CHERYL LN	38.0321433016	-84.5356477885
HLX-2571	H2571	2933	SOUTHVIEW DR	38.0036059118	-84.5395053089
HLX-2572	H2572	998	E NEW CIRCLE RD	38.0386580202	-84.4546609583
HLX-2573	H2573	1757	TRAVELLER RD	38.0378478184	-84.554599008
HLX-2574	H2574	622	NAKOMI DR	38.0096705122	-84.5443187409
HLX-2583	H2583	2401	MAPLEWOOD DR	38.0124878374	-84.5294714308
HLX-2584	H2584	552	JUDY LN	38.0810997194	-84.4558182786
HLX-2585	H2585	534	PARKSIDE DR	38.0824124036	-84.4537428594
HLX-2586	H2586	132	GREENBRIAR RD	38.0083183748	-84.5135749154
HLX-2587	H2587	1073	LANE ALLEN RD	38.0347141469	-84.5571409995
HLX-2588	H2588	1817	WILLIAMSBURG RD	38.0377672959	-84.5600726685
HLX-2589	H2589	60	FREEMAN DR	38.0842739864	-84.4575412374
HLX-2590	H2590	2301	CABOT DR	38.0864086879	-84.4579479649
HLX-2591	H2591	2318	ALLEN DR	38.0860741357	-84.4548585742
HLX-2592	H2592	566	PARKSIDE DR	38.0845136771	-84.4561972194
HLX-2594	H2594	3053	BRECKENWOOD DR	38.0049769808	-84.4992014298

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2595	H2595	113	BRIGADOON PKY	37.9897361525	-84.522129403
HLX-2596	H2596	2917	WACO RD	38.0105414949	-84.5474278909
HLX-2597	H2597	1852	ENDON DR	38.0567219961	-84.4440548274
HLX-2599	H2599	672	WELLINGTON WAY	37.99900948	-84.54027941
HLX-2600	H2600	3152	CHATHAM DR	38.0040902031	-84.551710742
HLX-2601	H2601	625	BUCKINGHAM LN	38.004789343	-84.5473834836
HLX-2602	H2602	429	MALABU DR	37.9955680316	-84.5086523111
HLX-2603	H2603	3169	HYDE PARK DR	38.0042247192	-84.5551174015
HLX-2604	H2604	240	YUMA CT	38.0152978552	-84.5392066469
HLX-2605	H2605	1176	LANE ALLEN RD	38.0368150782	-84.5631267599
HLX-2606	H2606	501	SOUTHLAND DR	38.0204822185	-84.5282581536
HLX-2607	H2607	443	SOUTHLAND DR	38.019120273	-84.527400196
HLX-2608	H2608	3325	LANSLOWNE DR	37.9973142591	-84.5031580666
HLX-2610	H2610	769	REBECCA DR	38.0073556398	-84.5006416322
HLX-2611	H2611	304	ARROWHEAD DR	38.0106690127	-84.5562218496
HLX-2612	H2612	805	TOMAHAWK TRL	38.0089885305	-84.5508479057
HLX-2613	H2613	305	MALABU DR	37.9989741777	-84.5124866055
HLX-2614	H2614	114	WILSON DOWNING RD	37.9860741368	-84.5254823486
HLX-2615	H2615	798	HILDEEN DR	38.0007243802	-84.4992722368
HLX-2616	H2616	102	BIRCH DR	38.0896061648	-84.5105249526
HLX-2617	H2617	1045	HUDSON AVE	38.0895505035	-84.5079127596
HLX-2618	H2618	1967	MARK AVE	38.0890114874	-84.5062612105
HLX-2619	H2619	1992	CATHY LN	38.0906677046	-84.5057123713
HLX-2620	H2620	1999	KNIGHT LN	38.0909867177	-84.5043728323
HLX-2621	H2621	1963	KNIGHT LN	38.0893047921	-84.504227431
HLX-2622	H2622	1543	PARKERS MILL RD	38.044658571	-84.5541332522
HLX-2623	H2623	339	SIERRA DR	38.0652906867	-84.4537118128
HLX-2624	H2624	741	SEATTLE DR	38.0150947528	-84.5486813228
HLX-2625	H2625	3212	SAXON DR	37.9996314929	-84.5503942053
HLX-2626	H2626	3228	CORNWALL DR	37.9992734838	-84.5543928285
HLX-2629	H2629	1506	PORT ROYAL DR	38.044707378	-84.5472017751
HLX-2630	H2630	239	ABERDEEN DR	37.9856078831	-84.5181195822
HLX-2631	H2631	123	DUNDEE DR	37.9861707237	-84.5227428661
HLX-2632	H2632	218	WILSON DOWNING RD	37.9836801191	-84.5192954123

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 71 of 252
HLX-2633	H2633	345	HARVARD DR	37.9784687661	-84.5191863667
HLX-2634	H2634	237	LEAWOOD DR	37.9971592518	-84.5147127853
HLX-2635	H2635	601	ST ANTHONY DR	38.0590505677	-84.4477351505
HLX-2636	H2636	133	ZANDALE DR	38.0079454522	-84.515977288
HLX-2637	H2637	1721	MAYWICK VIEW LN	38.0394551816	-84.5513553119
HLX-2638	H2638	1866	PARKERS MILL RD	38.038626096	-84.5608463407
HLX-2639	H2639	728	KIRKLAND DR	37.9942904356	-84.5033678322
HLX-2640	H2640	1644	LINSTEAD DR	38.0392376325	-84.5565211242
HLX-2641	H2641	132	VANDERBILT DR	37.9833748238	-84.5219992577
HLX-2642	H2642	1295	CROSS KEYS RD	38.0430361278	-84.5565013766
HLX-2643	H2643	729	CUMBERLAND RD	37.9999281827	-84.55736786
HLX-2644	H2644	3364	CLOVERDALE DR	37.9944953038	-84.5054093139
HLX-2645	H2645	1723	SILVER LN	38.0769132218	-84.4691519571
HLX-2646	H2646	1141	LANE ALLEN RD	38.0357919642	-84.5603717123
HLX-2647	H2647	1908	WILLIAMSBURG RD	38.035607655	-84.5626417855
HLX-2648	H2648	1940	WILLIAMSBURG RD	38.0342349606	-84.5649791507
HLX-2649	H2649	2923	EDINBURGH DR	37.9877432576	-84.5205202634
HLX-2650	H2650	3419	THISTLETON DR	37.994890887	-84.5127309985
HLX-2651	H2651	320	LEAWOOD DR	37.9959203608	-84.5113017798
HLX-2652	H2652	181	LISLE INDUSTRIAL AVE	38.0640952495	-84.5244689654
HLX-2653	H2653	195	LISLE INDUSTRIAL AVE	38.0628417234	-84.5250422522
HLX-2654	H2654	202	LISLE INDUSTRIAL AVE	38.0618017698	-84.5254896995
HLX-2655	H2655	238	LISLE INDUSTRIAL AVE	38.0607760379	-84.5259700386
HLX-2656	H2656	375	LISLE INDUSTRIAL AVE	38.0600186059	-84.5241432974
HLX-2657	H2657	136	S FORBES RD	38.0626258584	-84.5216344878
HLX-2659	H2659	3036	STANFORD DR	37.9810779637	-84.523295285
HLX-2660	H2660	30	PURDUE PL	37.9802144815	-84.521150489
HLX-2661	H2661	799	COTTAGE GROVE LN	38.0150223995	-84.4955215279
HLX-2662	H2662	1032	CROSS KEYS RD	38.0392141208	-84.5486933423
HLX-2663	H2663	309	WILSON DOWNING RD	37.982578426	-84.5170389808
HLX-2664	H2664	334	WILSON DOWNING RD	37.981282992	-84.5146410117
HLX-2665	H2665	3552	LANSDOWNE DR	37.9852952055	-84.517123674
HLX-2666	H2666	3539	BROOKVIEW DR	37.9853661169	-84.5157116679
HLX-2667	H2667	317	STONEBROOK DR	37.9834394575	-84.5160786997

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2673	H2673	402	YALE DR	37.9814505181	-84.5175947101
HLX-2674	H2674	3424	LANSLOWNE DR	37.9940510554	-84.5108205199
HLX-2675	H2675	2038	WILLIAMSBURG RD	38.0321642669	-84.5632357705
HLX-2676	H2676	3196	ROXBURG DR	38.0012748721	-84.5594727385
HLX-2677	H2677	50	ANDREA DR	38.0040461243	-84.5412732913
HLX-2678	H2678	829	SURREY LN	37.998928164	-84.5600181929
HLX-2679	H2679	3163	ROXBURG DR	37.999917488	-84.5612740897
HLX-2680	H2680	767	CINDY BLAIR WAY	37.9978328756	-84.5622148244
HLX-2681	H2681	3279	ROXBURG DR	37.9974480592	-84.5591482239
HLX-2682	H2682	3521	ROCKY HILL TER	37.9857689018	-84.5140781561
HLX-2683	H2683	3544	GREENLAWN DR	37.9832546519	-84.5134336634
HLX-2684	H2684	761	MALABU DR	37.9929173693	-84.5039088534
HLX-2685	H2685	719	HAVERHILL DR	37.9981444217	-84.5565067781
HLX-2687	H2687	3273	SAXON DR	37.9968249337	-84.5539005427
HLX-2688	H2688	3479	GREENLAWN DR	37.9858016349	-84.5122397099
HLX-2689	H2689	3424	GREENLAWN DR	37.9878426466	-84.5136583895
HLX-2690	H2690	701	MONTICELLO BLVD	37.9939584682	-84.5503191196
HLX-2691	H2691	610	MONTICELLO BLVD	37.99230981	-84.5474069925
HLX-2693	H2693	663	HALIFAX DR	37.9923532786	-84.5494193625
HLX-2694	H2694	607	HALIFAX DR	37.9909430112	-84.5468475029
HLX-2695	H2695	644	CINDY BLAIR WAY	37.9945504081	-84.5537290166
HLX-2696	H2696	3363	KEITHSHIRE WAY	37.9959130755	-84.5510027213
HLX-2697	H2697	3315	BROOKHILL CIR	37.9965323422	-84.5000062879
HLX-2698	H2698	3332	OVERBROOK DR	37.9942224913	-84.498877517
HLX-2699	H2699	813	CHINOE RD	38.0082242598	-84.4849634029
HLX-2700	H2700	1100	THE LANE	38.0435826118	-84.5480092123
HLX-2701	H2701	205	ABERDEEN DR	37.98773107	-84.5175513134
HLX-2702	H2702	3522	LANSLOWNE DR	37.9867636008	-84.5160145735
HLX-2703	H2703	774	BRAVINGTON WAY	37.9961884055	-84.5630257129
HLX-2704	H2704	3290	ROXBURG DR	37.9958495063	-84.5589749155
HLX-2705	H2705	3296	CORNWALL DR	37.9951135014	-84.5570408185
HLX-2706	H2706	555	MONTICELLO BLVD	37.9909808231	-84.5447553706
HLX-2707	H2707	3415	SAYBROOK RD	37.9899112028	-84.5454091151
HLX-2708	H2708	340	CORNWALL DR	37.9937387125	-84.5586338612

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2709	H2709	3465	LANNETTE LN	37.9945898896	-84.5637759292
HLX-2710	H2710	3413	STILLWATER RD	37.9895117441	-84.5434952472
HLX-2711	H2711	3453	BOSTON RD	37.987725862	-84.5451558629
HLX-2712	H2712	3420	KEITHSHIRE WAY	37.9936566471	-84.5552165548
HLX-2713	H2713	247	E TIVERTON WAY	37.9773788158	-84.5191339105
HLX-2714	H2714	20	E TIVERTON WAY	37.9783329897	-84.5216443289
HLX-2715	H2715	141	E TIVERTON WAY	37.9795112462	-84.5251167621
HLX-2716	H2716	3828	WALHAMPTON DR	37.9773126176	-84.5239539433
HLX-2717	H2717	279	TANGLEY WAY	37.9753628687	-84.5232780185
HLX-2718	H2718	265	KENLOCK DR	37.9765029697	-84.5230479429
HLX-2719	H2719	3818	HABERSHAM DR	37.9768124883	-84.5208875503
HLX-2720	H2720	342	TANGLEY WAY	37.9755135841	-84.5206364892
HLX-2721	H2721	791	CINDY BLAIR WAY	37.9985349662	-84.5642937442
HLX-2722	H2722	819	MALABU DR	37.9922065843	-84.5005222748
HLX-2723	H2723	848	MALABU DR	37.9918870789	-84.497616551
HLX-2724	H2724	1133	UNITY DR	38.0398829631	-84.5241019138
HLX-2728	H2728	1625	FRANKFORT PIKE	38.0603529795	-84.5375806199
HLX-2729	H2729	1631	FRANKFORT PIKE	38.0599891021	-84.5368829262
HLX-2732	H2732	3457	KEITHSHIRE WAY	37.9922656074	-84.5581635221
HLX-2733	H2733	121	TORONTO RD	37.9739882515	-84.5295915517
HLX-2734	H2734	192	TORONTO RD	37.9726763885	-84.5265940892
HLX-2735	H2735	136	NORTHBAY DR	37.9717670649	-84.5277484711
HLX-2736	H2736	165	QUEBEC WAY	37.9707989256	-84.5282064349
HLX-2737	H2737	680	LONGWOOD RD	37.98979595	-84.5651694184
HLX-2738	H2738	3540	CORNWALL DR	37.9915842794	-84.5651450183
HLX-2739	H2739	680	SHASTA CIR	37.9905482951	-84.5626104487
HLX-2741	H2741	829	CAHABA RD	37.9933904004	-84.5003201701
HLX-2742	H2742	132	MANITOBA LN	37.971600397	-84.5297789771
HLX-2743	H2743	164	MANITOBA LN	37.9701601682	-84.5290946639
HLX-2744	H2744	4032	FOXES BASIN RD	37.969892	-84.5301121048
HLX-2745	H2745	1264	E NEW CIRCLE RD	38.0301011327	-84.4528001683
HLX-2746	H2746	2035	LIBERTY RD	38.0295664676	-84.4535945269
HLX-2747	H2747	3477	ALDERSHOT DR	37.9900890682	-84.5570247881
HLX-2748	H2748	593	CROMWELL WAY	37.9876101576	-84.5546453027

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2749	H2749	627	CROMWELL WAY	37.9890778382	-84.5575841483
HLX-2750	H2750	632	CARDIFF LN	37.9896398677	-84.5551280268
HLX-2751	H2751	237	OSAGE CT	38.0157887417	-84.4512960193
HLX-2752	H2752	3821	WINCHESTER RD	38.0324917183	-84.3713526227
HLX-2753	H2753	4092	WINCHESTER RD	38.0317765684	-84.3684958885
HLX-2754	H2754	405	ELORA LN	37.9689891267	-84.5238285789
HLX-2755	H2755	4125	VICTORIA WAY	37.9691243871	-84.522126911
HLX-2756	H2756	4065	VICTORIA WAY	37.9704388963	-84.5242945521
HLX-2757	H2757	4021	VICTORIA WAY	37.9723990299	-84.5243127313
HLX-2758	H2758	4070	WINNEPEG WAY	37.9703913272	-84.5263009007
HLX-2759	H2759	430	WINCHESTER RD	38.0411	-84.47777
HLX-2760	H2760	2366	WALNUT GROVE LN	38.0161337435	-84.3811859519
HLX-2761	H2761	3701	CAYMAN LN	38.0211468797	-84.3749319609
HLX-2763	H2763	3994	NORTHAMPTON DR	37.9745010953	-84.5146006711
HLX-2764	H2764	3958	NORTHAMPTON DR	37.9738731755	-84.5165492921
HLX-2765	H2765	3887	NORTHAMPTON DR	37.9741175551	-84.5195385916
HLX-2766	H2766	3836	WEM DR	37.9753024363	-84.5185688764
HLX-2767	H2767	361	CHAMBERLAIN DR	37.9746005086	-84.5166852871
HLX-2768	H2768	337	E TIVERTON WAY	37.975704596	-84.5161142883
HLX-2769	H2769	273	BIG RUN RD	38.0001062908	-84.5298399539
HLX-2770	H2770	220	BIG RUN RD	37.9995508972	-84.528277939
HLX-2771	H2771	1733	HARRODSBURG RD	38.031295705	-84.528578173
HLX-2772	H2772	750	SHAKER DR	38.0321279671	-84.5300666419
HLX-2773	H2773	0	E NEW CIRCLE RD	38.0184565021	-84.4552188274
HLX-2774	H2774	1938	STANTON WAY	38.1021098068	-84.4833264614
HLX-2775	H2775	1931	STANTON WAY	38.101630362	-84.4821094993
HLX-2776	H2776	913	NANDINO BLVD	38.0769237448	-84.4985563675
HLX-2777	H2777	613	HOLLOW CREEK RD	38.0780924134	-84.4829714256
HLX-2778	H2778	1550	ASTAIRE DR	38.0773673748	-84.4847359432
HLX-2779	H2779	642	HOLLOW CREEK RD	38.079184921	-84.4838528076
HLX-2780	H2780	261	MIDLAND AVE	38.042108344	-84.483667982
HLX-2781	H2781	250	LEWIS ST	38.0428889838	-84.4839167327
HLX-2782	H2782	135	RACE ST	38.0420242074	-84.4895168059
HLX-2783	H2783	508	CROMWELL WAY	37.9855025515	-84.5487415782

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2784	H2784	948	HIGBEE MILL RD	37.9841927529	-84.5538498696
HLX-2785	H2785	3431	PIMLICO PKY	37.9852725841	-84.4759682378
HLX-2786	H2786	3463	PIMLICO PKY	37.9842088337	-84.4747689662
HLX-2787	H2787	3475	PIMLICO PKY	37.9837197481	-84.4732830171
HLX-2788	H2788	3505	PIMLICO PKY	37.9832612764	-84.4716215453
HLX-2789	H2789	3501	PIMLICO PKY	37.9822836004	-84.4704402238
HLX-2790	H2790	3550	PIMLICO PKY	37.9809926079	-84.4708474769
HLX-2791	H2791	3573	PIMLICO PKY	37.9798070056	-84.471729194
HLX-2792	H2792	3216	KIRKLEVINGTON DR	37.9862281374	-84.4997811324
HLX-2793	H2793	401	REDDING RD	37.9868615949	-84.501453146
HLX-2794	H2794	396	REDDING RD	37.9877084912	-84.5031186665
HLX-2796	H2796	1301	CANONERO DR	37.981133825	-84.4758721441
HLX-2797	H2797	1324	CANONERO DR	37.9810912633	-84.4743925766
HLX-2798	H2798	3540	BOLD BIDDER DR	37.9813976563	-84.4733036963
HLX-2799	H2799	350	BOLD BIDDER DR	37.9826360464	-84.4748475284
HLX-2800	H2800	1316	PERSONALITY CT	37.9798840726	-84.4739522683
HLX-2801	H2801	34	RICHMOND AVE	38.0347503266	-84.478950941
HLX-2802	H2802	17	RICHMOND AVE	38.0339670224	-84.4800933007
HLX-2803	H2803	121	OWSLEY AVE	38.0329503839	-84.4788287602
HLX-2804	H2804	205	OWSLEY AVE	38.0341909671	-84.4770042271
HLX-2805	H2805	227	OWSLEY AVE	38.0351251562	-84.4756572366
HLX-2806	H2806	128	LINCOLN AVE	38.0319532398	-84.4783820694
HLX-2807	H2807	1313	RICHMOND RD	38.0304054728	-84.4792749364
HLX-2808	H2808	179	BASSETT AVE	38.0320252927	-84.4755653245
HLX-2809	H2809	252	PRESTON AVE	38.0336999747	-84.4739423042
HLX-2810	H2810	284	BASSETT AVE	38.033660234	-84.4720943466
HLX-2811	H2811	329	MEMORY LN	38.0376698778	-84.4762267882
HLX-2812	H2812	311	RICHMOND AVE	38.0370272927	-84.4756103984
HLX-2813	H2813	336	RICHMOND AVE	38.0379488376	-84.474196098
HLX-2814	H2814	323	OWSLEY AVE	38.0364672537	-84.4737054562
HLX-2815	H2815	320	LINCOLN AVE	38.0357895473	-84.4727963557
HLX-2816	H2816	284	LINCOLN AVE	38.0351138256	-84.473612874
HLX-2817	H2817	273	PRESTON AVE	38.0345336238	-84.473037141
HLX-2818	H2818	264	SHERMAN AVE	38.0321671701	-84.4726085764

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2819	H2819	181	SHERMAN AVE	38.0310789701	-84.4745101257
HLX-2820	H2820	128	SHERMAN AVE	38.0296492995	-84.4761971564
HLX-2821	H2821	332	PRESTON AVE	38.0353082765	-84.4716399508
HLX-2822	H2822	327	BASSETT AVE	38.0345649654	-84.471076974
HLX-2823	H2823	336	SHERMAN AVE	38.0339356282	-84.47006684
HLX-2824	H2824	441	HENRY CLAY BLVD	38.0344134799	-84.4679633979
HLX-2825	H2825	298	SHERMAN AVE	38.0329587147	-84.4713218556
HLX-2826	H2826	401	KINGSWOOD DR	38.0317023706	-84.469944838
HLX-2827	H2827	414	KINGSWOOD DR	38.032664969	-84.4685518133
HLX-2828	H2828	1719	CAROLYN DR	38.0337558603	-84.4656259007
HLX-2829	H2829	339	QUEENSWAY DR	38.0300943292	-84.4705474243
HLX-2830	H2830	415	HOLIDAY RD	38.0314197833	-84.4668799273
HLX-2831	H2831	103	LIBERTY RD	38.0406971128	-84.4683947249
HLX-2832	H2832	1043	LIBERTY RD	38.0396298641	-84.4671406597
HLX-2833	H2833	130	PRESTON AVE	38.0311741413	-84.4776906621
HLX-2834	H2834	252	LINCOLN AVE	38.0343572933	-84.4748572221
HLX-2835	H2835	417	QUEENSWAY DR	38.032029986	-84.4678112467
HLX-2836	H2836	976	DELAWARE AVE	38.0387105881	-84.4707791258
HLX-2837	H2837	601	LAGONDA AVE	38.0388057876	-84.4678002207
HLX-2838	H2838	1123	DELAWARE AVE	38.037566602	-84.4691420145
HLX-2839	H2839	601	HENRY CLAY BLVD	38.0364658507	-84.4655928364
HLX-2840	H2840	501	HENRY CLAY BLVD	38.0358297997	-84.4662381538
HLX-2841	H2841	1138	LIBERTY RD	38.0383826064	-84.4650468062
HLX-2842	H2842	725	HENRY CLAY BLVD	38.0378506046	-84.465082994
HLX-2843	H2843	1644	LIBERTY RD	38.0369211675	-84.4634100192
HLX-2844	H2844	963	DETROIT AVE	38.0400846787	-84.4694454861
HLX-2845	H2845	3597	BOLD BIDDER DR	37.9787045561	-84.4728335648
HLX-2846	H2846	1629	LINDY LN	38.0380663297	-84.4628007315
HLX-2847	H2847	1629	WYATT PKY	38.0388699882	-84.4617922917
HLX-2848	H2848	1635	STRADER DR	38.0395950155	-84.4607766582
HLX-2849	H2849	170	WYATT PKY	38.0378488776	-84.4603912334
HLX-2850	H2850	871	HENRY CLAY BLVD	38.0406687185	-84.4624480556
HLX-2851	H2851	132	BROWN AVE	38.0402925758	-84.4585497796
HLX-2852	H2852	108	ASHTON DR	38.0415801989	-84.4580970817

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2853	H2853	130	ASHTON DR	38.0407382335	-84.4568361426
HLX-2854	H2854	144	BROWN AVE	38.0396081283	-84.4576331952
HLX-2855	H2855	1290	INDUSTRY RD	38.0492076165	-84.4563000891
HLX-2856	H2856	660	SHERIDAN DR	38.0208092988	-84.5377214182
HLX-2857	H2857	641	STRATFORD DR	38.0198490902	-84.5371710824
HLX-2858	H2858	637	CARDINAL LN	38.0199196221	-84.5392538839
HLX-2859	H2859	612	CARDINAL LN	38.01889428	-84.5371167335
HLX-2860	H2860	2249	CLAYS MILL RD	38.0183881619	-84.5354350962
HLX-2861	H2861	601	LARAMIE DR	38.0189376351	-84.5399716297
HLX-2862	H2862	2310	TUCSON DR	38.0180295176	-84.5414377566
HLX-2863	H2863	2401	TULSA RD	38.0182878447	-84.5445306139
HLX-2864	H2864	2431	TULSA RD	38.0177758951	-84.5452909642
HLX-2865	H2865	674	HILL-N-DALE RD	38.0166291177	-84.5436770383
HLX-2866	H2866	626	LANE ALLEN RD	38.0256125969	-84.5343697275
HLX-2867	H2867	1839	PERSHING RD	38.0264611819	-84.5327527708
HLX-2868	H2868	608	LANE ALLEN RD	38.0245417883	-84.5333457388
HLX-2869	H2869	1930	CLAYS MILL RD	38.0239875351	-84.5323114492
HLX-2870	H2870	612	MITCHELL AVE	38.0233708342	-84.5337233547
HLX-2871	H2871	674	SPRINGRIDGE DR	38.0232173936	-84.5380170574
HLX-2872	H2872	616	SPRINGRIDGE DR	38.0221646833	-84.5348872074
HLX-2873	H2873	618	LONGVIEW DR	38.0212865709	-84.5360078971
HLX-2874	H2874	656	LONGVIEW DR	38.0224167734	-84.5390208744
HLX-2875	H2875	689	SHERIDAN DR	38.0215690699	-84.5404692793
HLX-2876	H2876	1838	NORMANDY RD	38.0346742412	-84.5416086117
HLX-2877	H2877	1858	NORMANDY RD	38.033337213	-84.5417839422
HLX-2878	H2878	1817	BEACON HILL RD	38.0338337891	-84.5406301155
HLX-2879	H2879	880	LYNN RD	38.0329244729	-84.5389165638
HLX-2880	H2880	1793	BEACON HILL RD	38.0347136374	-84.5401514599
HLX-2881	H2881	854	CHERYL LN	38.0334519983	-84.5378555008
HLX-2882	H2882	860	DELLA DR	38.0343425784	-84.5372661529
HLX-2883	H2883	865	FURLONG DR	38.0322167178	-84.5395903272
HLX-2884	H2884	913	HOLLY SPRINGS DR	38.033619524	-84.543442066
HLX-2885	H2885	882	MAYWICK DR	38.0314052425	-84.5420127916
HLX-2886	H2886	787	ALLENDALE DR	38.0293516501	-84.5368429629

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2887	H2887	759	ALLENDALE DR	38.0285428497	-84.5357724289
HLX-2889	H2889	70	LYNN RD	38.0285718135	-84.5320470337
HLX-2890	H2890	1883	HARRODSBURG RD	38.0292022723	-84.5310731737
HLX-2891	H2891	1618	CLAYS MILL RD	38.0291347014	-84.5292690907
HLX-2892	H2892	522	WOODBINE DR	38.0271875698	-84.5279666925
HLX-2893	H2893	1824	CLAYS MILL RD	38.02694616	-84.5305247854
HLX-2894	H2894	1848	CLAYS MILL RD	38.0259214194	-84.5309702914
HLX-2895	H2895	524	RIDGE RD	38.0297580951	-84.5264382845
HLX-2896	H2896	518	SPRINGHILL DR	38.0290339312	-84.5272560425
HLX-2897	H2897	497	SPRINGHILL DR	38.0280833223	-84.525393516
HLX-2898	H2898	462	BOB-O-LINK DR	38.0279519457	-84.5218244168
HLX-2899	H2899	397	SPRINGHILL DR	38.0248655904	-84.5205677797
HLX-2900	H2900	198	REED RD	38.0233235536	-84.5216855058
HLX-2901	H2901	230	REED LN	38.0240242622	-84.5234061129
HLX-2902	H2902	242	E VISTA ST	38.0249072486	-84.5253188795
HLX-2903	H2903	518	REED LN	38.0264137051	-84.5284292162
HLX-2904	H2904	299	LAFAYETTE PKY	38.0258027154	-84.5272505079
HLX-2906	H2906	450	LONGVIEW DR	38.0186375559	-84.5285104823
HLX-2907	H2907	482	SHERIDAN DR	38.0179471587	-84.5301365542
HLX-2908	H2908	475	STRATFORD DR	38.0170884502	-84.5303113637
HLX-2909	H2909	137	CHERRYBARK DR	38.01838522	-84.5257241176
HLX-2910	H2910	274	ROSEMONT GDN	38.0202798339	-84.5246904387
HLX-2911	H2911	206	PIN OAK DR	38.021753895	-84.5229197812
HLX-2912	H2912	226	PIN OAK DR	38.0224366772	-84.522364175
HLX-2914	H2914	126	ELAM PK	38.017500051	-84.5229895776
HLX-2915	H2915	1702	BEACON HILL RD	38.0388574356	-84.5377692257
HLX-2916	H2916	1737	BEACON HILL RD	38.037244837	-84.5387408183
HLX-2917	H2917	1773	BEACON HILL RD	38.0356986925	-84.5396153085
HLX-2918	H2918	848	MASON HEADLEY RD	38.0387943443	-84.5350080883
HLX-2919	H2919	828	CELIA LN	38.0377362366	-84.535353001
HLX-2920	H2920	1725	ROSECRANS DR	38.0366506382	-84.5365017522
HLX-2921	H2921	1716	ALBEMARLE RD	38.0373595631	-84.537286551
HLX-2922	H2922	868	LAUREL HILL RD	38.0355572478	-84.537384108
HLX-2923	H2923	1720	HATTERAS DR	38.0363691228	-84.5353779535

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2924	H2924	1741	COLD HARBOR DR	38.0356478127	-84.5344004778
HLX-2925	H2925	750	DELLA DR	38.0314864931	-84.5326402398
HLX-2926	H2926	722	DELLA DR	38.0307123929	-84.5314343476
HLX-2928	H2928	2120	CLAYS MILL RD	38.0206160669	-84.5338833446
HLX-2929	H2929	2058	CLAYS MILL RD	38.0216575333	-84.5333110558
HLX-2930	H2930	498	ROSEMILL DR	38.0203154171	-84.5297576358
HLX-2931	H2931	525	SOUTHLAND DR	38.0213841637	-84.5289005344
HLX-2932	H2932	50	ROSEMONT GDN	38.0223938245	-84.5290455323
HLX-2933	H2933	527	ROSEMONT GDN	38.0231153266	-84.5304018087
HLX-2934	H2934	531	SOUTHBEND DR	38.0256102963	-84.529557422
HLX-2935	H2935	942	MASON HEADLEY RD	38.0414503776	-84.5397646247
HLX-2936	H2936	106	CELIA LN	38.0416388342	-84.5446520859
HLX-2937	H2937	725	ADDISON AVE	38.03819079	-84.52410738
HLX-2938	H2938	627	ADDISON AVE	38.0401839402	-84.5267760232
HLX-2939	H2939	601	ADDISON AVE	38.0392006223	-84.5247462879
HLX-2940	H2940	430	PYKE RD	38.038077386	-84.5202425815
HLX-2941	H2941	320	BURLEY AVE	38.0352162756	-84.5182363084
HLX-2942	H2942	322	AMERICAN AVE	38.0343159745	-84.5185188834
HLX-2943	H2943	1216	S BROADWAY	38.0356954441	-84.5199036121
HLX-2944	H2944	180	MASON HEADLEY RD	38.0434461389	-84.5420420372
HLX-2945	H2945	190	APPOMATTOX RD	38.0369509203	-84.5470328873
HLX-2946	H2946	969	HOLLY SPRINGS DR	38.0360177225	-84.5454900443
HLX-2947	H2947	977	STONEWALL RD	38.0355561745	-84.5466977232
HLX-2948	H2948	980	FREDERICKSBURG RD	38.0342361641	-84.5476439052
HLX-2949	H2949	1962	VICKSBURG RD	38.0332595342	-84.5457706394
HLX-2950	H2950	912	MAYWICK DR	38.0318601252	-84.5452873323
HLX-2951	H2951	149	BURLEY AVE	38.0341251662	-84.5170324204
HLX-2952	H2952	108	BURLEY AVE	38.0327347846	-84.515501233
HLX-2953	H2953	136	AMERICAN AVE	38.0323054146	-84.5164453777
HLX-2954	H2954	256	AMERICAN AVE	38.0330395574	-84.5172817424
HLX-2955	H2955	80	LAUREL HILL RD	38.03365	-84.53412
HLX-2956	H2956	80	DELLA DR	38.0328391314	-84.5348111974
HLX-2957	H2957	824	DELLA DR	38.0334897451	-84.5359449225
HLX-2959	H2959	760	CHERYL LN	38.0311257073	-84.5339661037

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2960	H2960	853	LYNN RD	38.0322445126	-84.5377360868
HLX-2961	H2961	816	LYNN RD	38.0312454866	-84.5362864377
HLX-2962	H2962	801	FURLONG DR	38.030640275	-84.5368635514
HLX-2963	H2963	833	FURLONG DR	38.0314986167	-84.5384167942
HLX-2964	H2964	780	LYNN RD	38.0305111949	-84.5349244031
HLX-2965	H2965	2077	CAMBRIDGE DR	38.0531812018	-84.5517207169
HLX-2966	H2966	3417	GINGERTREE CIR	37.9981817308	-84.4861321892
HLX-2967	H2967	3213	PEPPERHILL RD	37.9996717538	-84.4860669509
HLX-2968	H2968	3441	MONTAVESTA RD	37.9987329837	-84.4871190407
HLX-2969	H2969	3417	MONTAVESTA RD	37.9977951069	-84.4880580101
HLX-2970	H2970	3413	BRANDON DR	37.9985981282	-84.4888148417
HLX-2971	H2971	1427	VERSAILLES RD	38.0492035998	-84.5282667415
HLX-2973	H2973	502	GRANTCHESTER ST	38.0721608625	-84.4710903876
HLX-2974	H2974	1716	WOODLARK AVE	38.0719600486	-84.4694154518
HLX-2975	H2975	461	DOVER RD	38.0726173497	-84.467097952
HLX-2976	H2976	401	SOUTHRIDGE DR	38.0717397044	-84.463489132
HLX-2977	H2977	422	SOUTHRIDGE DR	38.0726145125	-84.4650651193
HLX-2978	H2978	425	NORTHRIDGE DR	38.0732498429	-84.4640133942
HLX-2979	H2979	1711	BLUE RIDGE DR	38.0734589499	-84.4659786475
HLX-2980	H2980	1723	BLUE RIDGE DR	38.0741273068	-84.4649998944
HLX-2981	H2981	170	RUSSELL CAVE RD	38.078508351	-84.4710206783
HLX-2982	H2982	521	DOVER RD	38.0736232315	-84.4684161425
HLX-2983	H2983	525	SOUTHRIDGE DR	38.0747941599	-84.4677460182
HLX-2984	H2984	525	THURMAN DR	38.0759577336	-84.467414123
HLX-2985	H2985	1812	BLUE RIDGE DR	38.0756025724	-84.4628464647
HLX-2986	H2986	404	LIN WAL RD	38.0728066985	-84.4618535568
HLX-2987	H2987	125	WINSTON AVE	38.0719600465	-84.4584657485
HLX-2988	H2988	120	BEVERLY AVE	38.0756494643	-84.4526209032
HLX-2989	H2989	168	BEVERLY AVE	38.0743533931	-84.451246983
HLX-2990	H2990	189	BEVERLY AVE	38.0733962314	-84.450079465
HLX-2991	H2991	1133	CLARIDGE DR	38.0371510478	-84.5583216472
HLX-2992	H2992	1824	DARIEN DR	38.036392564	-84.5561634708
HLX-2993	H2993	1125	MERIDIAN DR	38.0363008276	-84.5587100257
HLX-2994	H2994	1836	DARIEN DR	38.0355744827	-84.5566026374

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2995	H2995	1057	LANE ALLEN RD	38.0342554782	-84.5558657395
HLX-2996	H2996	1029	LANE ALLEN RD	38.0329678041	-84.55207355
HLX-2997	H2997	1037	LANE ALLEN RD	38.0335246391	-84.5536962155
HLX-2998	H2998	1829	TRAVELLER RD	38.035903578	-84.5541714539
HLX-2999	H2999	1882	MANASSAS DR	38.0349241875	-84.5517043774
HLX-3000	H3000	1924	APPOMATTOX RD	38.0353619548	-84.5495218872
HLX-3001	H3001	551	PARKSIDE DR	38.0833968755	-84.4548769178
HLX-3002	H3002	568	JUDY LN	38.0820519905	-84.4569530484
HLX-3003	H3003	549	FREEMAN DR	38.0815620374	-84.4545790185
HLX-3004	H3004	549	PARKSIDE DR	38.0817005167	-84.4528584627
HLX-3005	H3005	520	FREEMAN DR	38.0805979818	-84.4535613611
HLX-3006	H3006	509	JUDY LN	38.0794286829	-84.4545228307
HLX-3007	H3007	419	PARKSIDE DR	38.0873099476	-84.4588043819
HLX-3008	H3008	2238	CIRCLE DR	38.0793622325	-84.4510061734
HLX-3009	H3009	2220	CIRCLE DR	38.0794186588	-84.4524997052
HLX-3010	H3010	2202	CIRCLE DR	38.0785459827	-84.453454008
HLX-3011	H3011	791	REBECCA DR	38.0071464962	-84.4992012501
HLX-3012	H3012	873	REBECCA DR	38.0069210277	-84.4976972412
HLX-3013	H3013	308	SHIRLEE DR	38.0064770251	-84.500583478
HLX-3014	H3014	3027	WINDERMERE RD	38.0053646775	-84.4976660302
HLX-3015	H3015	769	ABBOTT RD	38.0055212586	-84.5014168091
HLX-3016	H3016	730	ALBANY RD	38.0043037348	-84.5011855091
HLX-3017	H3017	798	ALBANY RD	38.0038733941	-84.4992742221
HLX-3018	H3018	872	ALBANY RD	38.0035504343	-84.4974565556
HLX-3020	H3020	770	ROBIN RD	38.0033158765	-84.5012475378
HLX-3021	H3021	1728	WILLIAMSBURG RD	38.0388384291	-84.5587065654
HLX-3022	H3022	1833	WILLIAMSBURG RD	38.0371299763	-84.5610501963
HLX-3023	H3023	1138	ATHENIA DR	38.0344968575	-84.5611623878
HLX-3024	H3024	1680	WILLIAMSBURG RD	38.0424424598	-84.5575773247
HLX-3025	H3025	1695	WILLIAMSBURG RD	38.04093151	-84.5574492627
HLX-3026	H3026	1285	STANDISH WAY	38.0394680857	-84.5636814867
HLX-3027	H3027	1240	CROSS KEYS RD	38.0422151006	-84.5555011878
HLX-3028	H3028	1621	TRAVELLER RD	38.0434277073	-84.5536451625
HLX-3029	H3029	1729	TRAVELLER RD	38.039136821	-84.5544961096

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3030	H3030	1056	DELLA DR	38.0427297899	-84.548048307
HLX-3031	H3031	1728	TARLETON CT	38.0409395831	-84.5466039094
HLX-3032	H3032	1725	SHENANDOAH DR	38.0403394005	-84.5456125377
HLX-3033	H3033	1010	DELLA DR	38.0387782471	-84.5462721284
HLX-3034	H3034	1462	HARRODSBURG RD	38.033075232	-84.5242551008
HLX-3035	H3035	160	HARRODSBURG RD	38.0321609633	-84.5257096044
HLX-3036	H3036	143	STATE ST	38.030578957	-84.5124084826
HLX-3037	H3037	720	SEATTLE DR	38.0134246649	-84.5483888116
HLX-3038	H3038	2809	PHOENIX RD	38.0145633329	-84.5472728543
HLX-3039	H3039	713	PASADENA DR	38.0153968311	-84.5463036467
HLX-3040	H3040	639	PORTLAND DR	38.0135551177	-84.5453329685
HLX-3041	H3041	701	NAKOMI DR	38.0116499187	-84.5466598996
HLX-3042	H3042	635	NAKOMI DR	38.0109953449	-84.5453694563
HLX-3043	H3043	626	WICHITA DR	38.0154865865	-84.5442648213
HLX-3044	H3044	621	PASADENA DR	38.0136807909	-84.5423805125
HLX-3045	H3045	607	PASADENA DR	38.0129036008	-84.5401725415
HLX-3046	H3046	2799	CLAYS MILL RD	38.0124593146	-84.5388710722
HLX-3047	H3047	613	PORTLAND DR	38.0124886598	-84.5425040066
HLX-3048	H3048	607	SEATTLE DR	38.0113055065	-84.5423672219
HLX-3049	H3049	631	CECIL WAY	38.0105683155	-84.5439635021
HLX-3050	H3050	2909	CLAYS MILL RD	38.0087373441	-84.5415653453
HLX-3051	H3051	2830	SOUTHVIEW DR	38.0073296667	-84.5367299647
HLX-3052	H3052	2844	SOUTHVIEW DR	38.0058938007	-84.537560035
HLX-3053	H3053	2917	SOUTHVIEW DR	38.0046510841	-84.5389035679
HLX-3054	H3054	424	KIMBERLY PL	38.0039750051	-84.5362996223
HLX-3055	H3055	485	PASADENA DR	38.0107653803	-84.5348947776
HLX-3056	H3056	370	HILL-N-DALE RD	38.0102923551	-84.5323652286
HLX-3057	H3057	2568	MILLBROOK DR	38.0092930843	-84.528083036
HLX-3058	H3058	226	HILL-N-DALE RD	38.0081592615	-84.5287104437
HLX-3059	H3059	493	LAMONT DR	38.0091186812	-84.5346390991
HLX-3060	H3060	403	WESTERFIELD WAY	38.0048683169	-84.5300990792
HLX-3061	H3061	2032	DELLWOOD DR	38.0060423228	-84.5152774807
HLX-3062	H3062	144	E LOWRY LN	38.0050176169	-84.5159221737
HLX-3063	H3063	2272	NICHOLASVILLE RD	38.0057874994	-84.5183845224

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3064	H3064	291	ZANDALE DR	38.0048103487	-84.5082602279
HLX-3065	H3065	2032	HEATHER WAY	38.0053734362	-84.5122260105
HLX-3066	H3066	279	WINN WAY	38.0044866526	-84.5104704006
HLX-3067	H3067	291	WINN WAY	38.0039779264	-84.5091451763
HLX-3068	H3068	223	E LOWRY LN	38.0038476894	-84.5119691292
HLX-3069	H3069	243	E LOWRY LN	38.0031813466	-84.5099375425
HLX-3070	H3070	316	ZANDALE DR	38.0037679775	-84.5064672589
HLX-3071	H3071	228	GREENBRIAR RD	38.0074020375	-84.5114101911
HLX-3072	H3072	257	GREENBRIAR RD	38.0067441968	-84.5097044521
HLX-3073	H3073	324	GREENBRIAR RD	38.0060834934	-84.5080795345
HLX-3074	H3074	332	ALBANY RD	38.0067959877	-84.5070685687
HLX-3075	H3075	329	JESSELIN DR	38.0076929705	-84.5061633624
HLX-3077	H3077	1945	BELLEFONTE DR	38.0069023866	-84.5042994328
HLX-3078	H3078	501	ALBANY RD	38.0059092058	-84.504754045
HLX-3079	H3079	740	GLENDOVER RD	38.0085428276	-84.5005387993
HLX-3080	H3080	3133	STARLING DR	38.0030251605	-84.5034800794
HLX-3081	H3081	642	TATESWOOD DR	38.0130769092	-84.4983090146
HLX-3082	H3082	747	CHINOE RD	38.0133857137	-84.4841664409
HLX-3083	H3083	767	CHINOE RD	38.0123005167	-84.484415966
HLX-3084	H3084	801	CHINOE RD	38.009651375	-84.4849669189
HLX-3086	H3086	1716	MOORELAND DR	38.0064927104	-84.483378269
HLX-3087	H3087	1711	LAKWOOD LN	38.0078910135	-84.4816807522
HLX-3088	H3088	1764	MOORELAND DR	38.0058382123	-84.4818850992
HLX-3089	H3089	1620	LAKWOOD DR	38.0096958503	-84.4821176209
HLX-3090	H3090	1545	LAKWOOD DR	38.0112569059	-84.4812089373
HLX-3091	H3091	0	MT TABOR RD	38.0053616678	-84.4508218094
HLX-3092	H3092	125	MT TABOR RD	38.0046328325	-84.4518550571
HLX-3093	H3093	694	BETH LN	38.0009259693	-84.5526664075
HLX-3094	H3094	689	BETH LN	38.0005669281	-84.5519037621
HLX-3095	H3095	673	BETH LN	38.0004896017	-84.5500478382
HLX-3096	H3096	656	BETH LN	38.0007600599	-84.5490143984
HLX-3098	H3098	1801	GLENHILL DR	38.0058594584	-84.4793331499
HLX-3099	H3099	1861	GLENHILL DR	38.0050622833	-84.4804138043
HLX-3101	H3101	3429	LANNETTE LN	37.9944185636	-84.5605594566

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3102	H3102	3492	LANNETTE LN	37.9929228078	-84.5645454432
HLX-3103	H3103	712	CROMWELL WAY	37.9927435743	-84.5632284411
HLX-3104	H3104	3420	CORNWALL DR	37.9931556317	-84.5600222317
HLX-3105	H3105	932	BRAVINGTON WAY	37.9965234345	-84.5677936902
HLX-3106	H3106	781	BRAVINGTON WAY	37.9965679524	-84.5643775112
HLX-3107	H3107	750	BRAVINGTON WAY	37.9959109716	-84.5608468213
HLX-3108	H3108	754	CINDY BLAIR WAY	37.9976858837	-84.5606720972
HLX-3109	H3109	3255	ROXBURG DR	37.9987401249	-84.5582809787
HLX-3110	H3110	3212	ROXBURG DR	38.0013105423	-84.558114104
HLX-3113	H3113	3452	ALDRSHOT DR	37.9905873158	-84.5555758783
HLX-3114	H3114	3369	HOLWYN RD	37.9946133186	-84.5487857511
HLX-3116	H3116	3425	HOLWYN RD	37.9932412934	-84.5515779297
HLX-3117	H3117	601	DELZAN PL	37.9962541804	-84.5466833025
HLX-3118	H3118	637	MONTICELLO BLVD	37.993094128	-84.5486244963
HLX-3119	H3119	3402	TISDALE DR	37.9891475134	-84.5496373674
HLX-3120	H3120	3430	WALLINGFORD CT	37.9896796988	-84.5469621746
HLX-3121	H3121	3856	WALHAMPTON DR	37.9759290664	-84.5242174227
HLX-3122	H3122	224	KENLOCK DR	37.9775243975	-84.5225084749
HLX-3123	H3123	161	E TIVERTON WAY	37.9790853179	-84.523564635
HLX-3124	H3124	3076	STANFORD DR	37.9801868907	-84.5237225409
HLX-3125	H3125	3048	DARTMOUTH DR	37.9814000701	-84.5219823865
HLX-3126	H3126	109	VANDERBILT DR	37.9842846854	-84.5246639088
HLX-3127	H3127	127	WILSON DOWNING RD	37.9848008409	-84.5216212601
HLX-3128	H3128	120	WILSON DOWNING RD	37.9854275648	-84.5235977613
HLX-3129	H3129	107	DUNDEE DR	37.9877217981	-84.5236060464
HLX-3130	H3130	2910	BRIGADOON PKY	37.9883193397	-84.5221722203
HLX-3131	H3131	2794	CLAYS MILL RD	38.0110624533	-84.5394013415
HLX-3132	H3132	2920	CLAYS MILL RD	38.0073697224	-84.5421561358
HLX-3133	H3133	521	ANDREA DR	38.0048661792	-84.5434485195
HLX-3134	H3134	109	TAHOMA RD	38.0135732914	-84.5140875911
HLX-3135	H3135	105	EDGEMOOR DR	38.0121047944	-84.515124503
HLX-3136	H3136	110	JESSELIN DR	38.0108176313	-84.5154897481
HLX-3137	H3137	138	JESSELIN DR	38.0102066036	-84.5138289859
HLX-3138	H3138	2217	NICHOLASVILLE RD	38.0083899279	-84.5174817523

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3139	H3139	2034	RAINBOW RD	38.0108070791	-84.5205949277
HLX-3140	H3140	161	ZANDALE DR	38.0071233352	-84.5141119022
HLX-3141	H3141	3327	NANTUCKET DR	37.997388583	-84.5078803717
HLX-3142	H3142	715	BROOKHILL DR	37.9994362591	-84.5053112062
HLX-3143	H3143	3320	BRAEMER DR	37.9982609447	-84.504488158
HLX-3144	H3144	742	BROOKHILL DR	37.9989796632	-84.5032451798
HLX-3145	H3145	808	WESTCHESTER DR	37.9965090525	-84.5024869065
HLX-3146	H3146	755	ZANDALE DR	38.0014529414	-84.5026173266
HLX-3147	H3147	798	SHERWOOD DR	38.0017253335	-84.4993592386
HLX-3148	H3148	837	SHERWOOD DR	38.0009957896	-84.4974590152
HLX-3149	H3149	793	LANSDOWNE CIR	37.9997574759	-84.5012697567
HLX-3150	H3150	80	BROOKHILL DR	37.9976613682	-84.5015625554
HLX-3151	H3151	152	HENTON RD	38.0579130446	-84.5177201544
HLX-3152	H3152	109	THOMPSON RD	38.06012	-84.51712
HLX-3153	H3153	120	MAIN ST	38.0614020769	-84.5174108789
HLX-3154	H3154	1499	TOWNLEY DR	38.0698623394	-84.5191610252
HLX-3155	H3155	291	BURKE RD	38.0701879701	-84.5207066189
HLX-3156	H3156	267	PEPPER DR	38.0687993596	-84.5201983323
HLX-3157	H3157	140	N FORBES RD	38.06467	-84.51955
HLX-3158	H3158	1425	N LIMESTONE	38.0631918569	-84.4729795446
HLX-3159	H3159	116	BLUE GRASS AVE	38.0611549384	-84.4727574272
HLX-3160	H3160	217	LOCUST AVE	38.05944454	-84.4726562868
HLX-3161	H3161	234	BROADVIEW DR	38.0648437088	-84.4739111964
HLX-3162	H3162	119	WITHERS AVE	38.062819713	-84.4770649622
HLX-3163	H3163	134	FAIRLAWN AVE	38.0621517782	-84.4779948658
HLX-3164	H3164	1041	KEES RD	38.063615433	-84.4826497766
HLX-3165	H3165	1029	N BROADWAY	38.0621643112	-84.4810707135
HLX-3166	H3166	220	BLUE GRASS AVE	38.0600187622	-84.4716307171
HLX-3167	H3167	324	BLUE GRASS AVE	38.0589884176	-84.4706524391
HLX-3168	H3168	1640	PARIS RD	38.0665593504	-84.4680972864
HLX-3169	H3169	142	NORTHWOOD DR	38.0649137066	-84.4663868591
HLX-3170	H3170	305	NORTHWOOD DR	38.0635832459	-84.4650262905
HLX-3171	H3171	1759	PARIS RD	38.0702081594	-84.4628119883
HLX-3172	H3172	1677	PARIS RD	38.067858301	-84.4661516065

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3173	H3173	179	WINSTON AVE	38.0694277699	-84.4555123196
HLX-3174	H3174	20	EASTIN RD	38.0664561174	-84.4583121033
HLX-3175	H3175	124	EASTIN RD	38.0679833307	-84.4600920549
HLX-3176	H3176	348	NORTHWOOD DR	38.0623819783	-84.4638209257
HLX-3177	H3177	1680	BRYAN STATION RD	38.0609748491	-84.4625422448
HLX-3178	H3178	312	EASTIN RD	38.064354207	-84.4558863287
HLX-3179	H3179	1766	BRYAN STATION RD	38.0628619055	-84.4564160885
HLX-3180	H3180	315	STRATHMORE RD	38.0636463059	-84.4582310896
HLX-3181	H3181	2312	NANCY LN	38.085017509	-84.4546476435
HLX-3183	H3183	1625	KENSINGTON WAY	38.039737629	-84.5780960855
HLX-3184	H3184	1613	KENSINGTON WAY	38.041272036	-84.5779508324
HLX-3185	H3185	4109	HERALDRY CT	38.0414666503	-84.5759005984
HLX-3186	H3186	987	MASON HEADLEY RD	38.0460566765	-84.5430194096
HLX-3187	H3187	1124	MANCHESTER ST	38.0554494193	-84.5159011989
HLX-3188	H3188	1853	BRYAN STATION RD	38.06434	-84.45179
HLX-3189	H3189	539	ST ANTHONY DR	38.0609437105	-84.4497156258
HLX-3190	H3190	637	NORTHSIDE DR	38.058690507	-84.4456260176
HLX-3191	H3191	1028	PATRICIA LN	38.0903622335	-84.509735488
HLX-3192	H3192	1045	BIRCH DR	38.0887789609	-84.5085010196
HLX-3193	H3193	1978	MARK AVE	38.0898274789	-84.5062419336
HLX-3194	H3194	1971	ALICE DR	38.0899177999	-84.5034088125
HLX-3195	H3195	573	FREEMAN DR	38.0833671019	-84.4567051215
HLX-3196	H3196	575	JUDY LN	38.0828993551	-84.4579448891
HLX-3197	H3197	272	SWIGERT AVE	38.0931968526	-84.4489748193
HLX-3198	H3198	2986	CADENTOWN RD	38.0099148815	-84.4247801812
HLX-3200	H3200	265	ELMWOOD DR	38.0907624341	-84.4500547739
HLX-3201	H3201	1838	MCDONALD AVE	38.0152840841	-84.5120171001
HLX-3202	H3202	20	SHADY LN	38.0137925417	-84.5112244627
HLX-3203	H3203	230	TAHOMA RD	38.0120296049	-84.5091295465
HLX-3204	H3204	241	TAHOMA RD	38.0116613619	-84.5076202053
HLX-3205	H3205	234	GLENDOVER RD	38.0104928286	-84.508509691
HLX-3206	H3206	168	EDGEMOOR DR	38.0105424115	-84.5102639876
HLX-3207	H3207	334	BLUEBERRY RD	38.0086353646	-84.5051174414
HLX-3208	H3208	226	JESSELIN DR	38.0086866071	-84.5087930151

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3209	H3209	228	ALBANY RD	38.0085588402	-84.5113363586
HLX-3210	H3210	333	GLENDOVER RD	38.0096355574	-84.5049359458
HLX-3211	H3211	3517	CORNWALL DR	37.9914601719	-84.5633196489
HLX-3212	H3212	676	CROMWELL WAY	37.9914792112	-84.5600983433
HLX-3213	H3213	3569	CORNWALL DR	37.990155177	-84.5663164098
HLX-3214	H3214	3445	KEITHSHIRE WAY	37.9927677148	-84.5569489235
HLX-3215	H3215	672	CINDY BLAIR WAY	37.9963068318	-84.5548781819
HLX-3216	H3216	3379	KEITHSHIRE WAY	37.9954600022	-84.5522614245
HLX-3219	H3219	3240	SAXON DR	37.9978951505	-84.551418644
HLX-3220	H3220	3220	TUDOR DR	37.9989541614	-84.5526870445
HLX-3221	H3221	203	LEAWOOD DR	37.9952762584	-84.5150996888
HLX-3222	H3222	3444	BELVOIR DR	37.9953772966	-84.5137747834
HLX-3223	H3223	301	LEAWOOD DR	37.9966755484	-84.5129566634
HLX-3224	H3224	3412	LANSDOWNE DR	37.9948946561	-84.5102129561
HLX-3225	H3225	3424	FARMINGTON RD	37.9980573634	-84.5138282565
HLX-3226	H3226	3365	HUNTER RD	37.9975178241	-84.51094549
HLX-3227	H3227	3365	BELLEFONTE DR	37.9970070355	-84.5099704307
HLX-3228	H3228	3351	NANTUCKET DR	37.9960314951	-84.5077329717
HLX-3229	H3229	703	KIRKLAND DR	37.9962739978	-84.5057922334
HLX-3230	H3230	279	MALABU DR	37.999606348	-84.5139268008
HLX-3231	H3231	708	BURKSHIRE DR	37.9960511272	-84.5038895513
HLX-3232	H3232	3383	OVERBROOK DR	37.9955403589	-84.5022055479
HLX-3234	H3234	3309	OVERBROOK DR	37.9930401476	-84.4982304201
HLX-3235	H3235	742	KIRKLAND DR	37.9937583714	-84.5023207586
HLX-3236	H3236	80	MALABU DR	37.9927081208	-84.5020553595
HLX-3237	H3237	750	MALABU DR	37.9932491162	-84.5051564831
HLX-3238	H3238	715	KIRKLAND DR	37.9950645028	-84.5048780781
HLX-3239	H3239	3412	NANTUCKET DR	37.9950747607	-84.5066536926
HLX-3240	H3240	3419	MALABU CIR	37.9917748706	-84.5034729082
HLX-3241	H3241	3649	KING ARTHUR DR	37.9800436544	-84.5112977814
HLX-3242	H3242	299	E TIVERTON WAY	37.9768025295	-84.517626232
HLX-3243	H3243	2920	ARGYLE DR	37.9872596074	-84.519150187
HLX-3244	H3244	205	INVERNESS DR	37.9863408469	-84.5203849124
HLX-3245	H3245	218	LOCH LOMOND DR	37.98461098	-84.518960461

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3246	H3246	306	STONEBROOK DR	37.9838534024	-84.5168136151
HLX-3247	H3247	3517	BROOKVIEW DR	37.9867805732	-84.5147306465
HLX-3248	H3248	217	VANDERBILT DR	37.981935037	-84.5195613513
HLX-3249	H3249	316	TULANE DR	37.9807726548	-84.5188668674
HLX-3250	H3250	446	YALE DR	37.9805725475	-84.5154474383
HLX-3251	H3251	3128	HYDE PARK DR	38.0065769423	-84.5539195178
HLX-3252	H3252	3144	HYDE PARK DR	38.0056268489	-84.5544710259
HLX-3253	H3253	3148	CHELSEA DR	38.0049022399	-84.5531744345
HLX-3254	H3254	3128	CHELSEA DR	38.0062634056	-84.5522158889
HLX-3255	H3255	3098	HARRODSBURG RD	38.0112590738	-84.5573941412
HLX-3256	H3256	3021	ARROWHEAD DR	38.0096926964	-84.5547516452
HLX-3257	H3257	3037	ARROWHEAD DR	38.009271176	-84.5532068547
HLX-3258	H3258	837	APACHE TRL	38.0089203903	-84.5556915085
HLX-3259	H3259	824	APACHE TRL	38.0084069979	-84.5541593968
HLX-3260	H3260	841	TOMAHAWK TRL	38.0104488032	-84.5533299778
HLX-3261	H3261	169	TORONTO RD	37.9731603656	-84.5273225735
HLX-3262	H3262	4041	VICTORIA WAY	37.9711926318	-84.524780723
HLX-3263	H3263	4106	WINNEPEG WAY	37.9695010954	-84.524811891
HLX-3264	H3264	1538	BLUEBIRD LN	38.0280194851	-84.5178234131
HLX-3265	H3265	228	WALLER AVE	38.0291388961	-84.5154545332
HLX-3266	H3266	141	UNIVERSITY AVE	38.0296598575	-84.5127632633
HLX-3267	H3267	137	WALLER AVE	38.0287079851	-84.513037889
HLX-3268	H3268	195	FOREST PARK RD	38.0276555454	-84.5136627006
HLX-3269	H3269	110	WALLER AVE	38.0282788823	-84.5111196383
HLX-3270	H3270	1123	S LIMESTONE	38.029142202	-84.5104116616
HLX-3271	H3271	3842	NORTHAMPTON DR	37.9753763549	-84.5195569047
HLX-3272	H3272	740	WELLINGTON WAY	38.0033720062	-84.5555654605
HLX-3273	H3273	712	WELLINGTON WAY	38.0025809177	-84.5532218943
HLX-3274	H3274	3144	CHATHAM DR	38.0047067689	-84.5512736963
HLX-3275	H3275	3148	ARROWHEAD DR	38.00827217	-84.55021721
HLX-3276	H3276	3129	ARROWHEAD DR	38.0053446204	-84.5489137996
HLX-3277	H3277	3161	TRINITY RD	38.0034255436	-84.5482465068
HLX-3278	H3278	648	WELLINGTON WAY	38.0022238786	-84.5483744763
HLX-3279	H3279	579	BUCKINGHAM LN	38.0032339265	-84.5467549522

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3280	H3280	3117	STARLING DR	38.0040380747	-84.5028933681
HLX-3281	H3281	118	CISCO RD	38.0476114161	-84.525540855
HLX-3282	H3282	209	TAYLOR DR	38.0693703153	-84.5283496362
HLX-3283	H3283	249	GLENDALE AVE	38.0707001347	-84.5259513132
HLX-3284	H3284	1622	MEADOWTHORPE AVE	38.0689557337	-84.5260706553
HLX-3285	H3285	1601	LEESTOWN RD	38.0674359235	-84.5254585522
HLX-3286	H3286	245	HILLSBORO AVE	38.0703074055	-84.5248319665
HLX-3287	H3287	245	BOILING SPRINGS DR	38.0699257617	-84.5236407762
HLX-3288	H3288	243	LARCH LN	38.0687593198	-84.5228956201
HLX-3289	H3289	1538	MEADOWTHORPE AVE	38.0672529493	-84.523499535
HLX-3290	H3290	1498	MEADOWTHORPE AVE	38.0664505592	-84.5224000339
HLX-3291	H3291	801	NANDINO BLVD	38.0793615423	-84.4937278169
HLX-3292	H3292	817	NANDINO BLVD	38.0795678769	-84.494501888
HLX-3293	H3293	833	NANDINO BLVD	38.0796905666	-84.4956558018
HLX-3294	H3294	865	NANDINO BLVD	38.0790190382	-84.4964701542
HLX-3295	H3295	868	NANDINO BLVD	38.0780850607	-84.4968913276
HLX-3296	H3296	90	NANDINO BLVD	38.0773440061	-84.497521149
HLX-3297	H3297	364	REDDING RD	37.989197808	-84.5072016083
HLX-3298	H3298	384	REDDING RD	37.9889053227	-84.5053813422
HLX-3299	H3299	364	LIMA DR	38.0739735758	-84.5133450392
HLX-3300	H3300	3210	MUIR STATION RD	38.0668687775	-84.349965731
HLX-3301	H3301	1529	ELIZABETH ST	38.0256807654	-84.5146038547
HLX-3302	H3302	1447	NICHOLASVILLE RD	38.0250559742	-84.5118729331
HLX-3303	H3303	1557	ELIZABETH ST	38.0247356566	-84.5150466487
HLX-3304	H3304	209	DANTZLER CT	38.0243104707	-84.5163019805
HLX-3305	H3305	241	BARBERRY LN	38.0237419743	-84.5181236247
HLX-3306	H3306	110	DANTZLER DR	38.0232101125	-84.5143503079
HLX-3307	H3307	118	BARBERRY LN	38.0224432174	-84.514716269
HLX-3308	H3308	333	ARCADIA PK	38.0225820881	-84.5177216681
HLX-3309	H3309	122	ARCADIA PK	38.0211047134	-84.5153192074
HLX-3310	H3310	1912	DEAUVILLE DR	38.0510004974	-84.5436346531
HLX-3311	H3311	901	CHINOE RD	38.0062843861	-84.4857043352
HLX-3312	H3312	913	CHINOE RD	38.0050211298	-84.4854997124
HLX-3314	H3314	90	TURKEY FOOT RD	38.0164303262	-84.4944207036

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3315	H3315	608	AUTUMN LN	38.0174739597	-84.4939634495
HLX-3316	H3316	916	TURKEY FOOT RD	38.0166788868	-84.4929250707
HLX-3317	H3317	933	TURKEY FOOT RD	38.0166591654	-84.4912663369
HLX-3318	H3318	949	TURKEY FOOT RD	38.0159518017	-84.4897689899
HLX-3319	H3319	109	SOUTHPOINT DR	37.9664491805	-84.5338914932
HLX-3320	H3320	4537	PRINCE ALBERT WAY	37.9653373272	-84.5325449465
HLX-3321	H3321	121	CARRIE CT	37.9666787451	-84.5325829892
HLX-3322	H3322	4505	PRINCE ALBERT WAY	37.9665344449	-84.5309289635
HLX-3323	H3323	225	WHITFIELD DR	37.9656591606	-84.5294904373
HLX-3324	H3324	4501	ALIGAN WAY	37.9652994907	-84.5282247479
HLX-3325	H3325	321	WHITFIELD DR	37.964460246	-84.5269631998
HLX-3326	H3326	4513	ALIGAN WAY	37.9646160858	-84.5289525854
HLX-3327	H3327	324	ANGELA CT	37.9638172712	-84.5275748231
HLX-3328	H3328	245	SOUTHPOINT DR	37.9638933019	-84.5296614451
HLX-3329	H3329	248	SOUTHPOINT DR	37.9634460643	-84.5295704602
HLX-3330	H3330	220	SOUTHPOINT DR	37.9644551276	-84.531078975
HLX-3331	H3331	212	PINDELL CT	37.96345	-84.53241
HLX-3332	H3332	4561	PRINCE ALBERT WAY	37.9640781633	-84.5332647836
HLX-3333	H3333	940	CHINOE RD	38.0035698746	-84.4851754143
HLX-3334	H3334	3308	SHILLITO PARK RD	37.9925263594	-84.5306542973
HLX-3335	H3335	651	W NEW CIRCLE RD	38.07299	-84.48339
HLX-3336	H3336	531	W NEW CIRCLE RD	38.0727505513	-84.4816023221
HLX-3337	H3337	505	W NEW CIRCLE RD	38.0723598323	-84.4800322206
HLX-3338	H3338	461	W NEW CIRCLE RD	38.0718452225	-84.4784677902
HLX-3339	H3339	501	BALMORAL CT	38.0605105302	-84.4543614169
HLX-3340	H3340	505	COLLIER CT	38.0594840071	-84.4551183149
HLX-3341	H3341	1753	BELLECHASSE DR	38.0586903761	-84.4524815368
HLX-3342	H3342	1772	BELLECHASSE DR	38.0576184165	-84.4510105536
HLX-3343	H3343	60	BERESFORD DR	38.0567159116	-84.4502786638
HLX-3344	H3344	667	BELLCASTLE RD	38.0549198539	-84.4485212168
HLX-3345	H3345	60	BRYANWOOD PKY	38.0564240416	-84.4516141217
HLX-3346	H3346	580	BRYANWOOD PKY	38.0572001009	-84.4527927132
HLX-3347	H3347	0	NEW CIRCLE RD	37.9897932979	-84.5015352933
HLX-3348	H3348	0	REDDING RD	37.9900343748	-84.5027256185

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3349	H3349	395	REDDING RD	37.9892612294	-84.5033375213
HLX-3350	H3350	395	REDDING RD	37.9881485591	-84.5014909093
HLX-3351	H3351	395	REDDING RD	37.9886984395	-84.5022924006
HLX-3352	H3352	180	CURTIS CT	38.0443488866	-84.4476594135
HLX-3353	H3353	420	ROGERS RD	38.0808168491	-84.4503354121
HLX-3354	H3354	432	ROGERS RD	38.0818091176	-84.4507840317
HLX-3355	H3355	507	ROGERS RD	38.0828478711	-84.4513125896
HLX-3356	H3356	981	BEASLEY ST	38.0402343392	-84.4523045839
HLX-3358	H3358	19	DEEPWOOD DR	38.0667788905	-84.4591593575
HLX-3359	H3359	111	EASTIN RD	38.0687390254	-84.4609381268
HLX-3360	H3360	786	CHINOE RD	38.0107148365	-84.4844454649
HLX-3361	H3361	1159	ATHENIA DR	38.0339729623	-84.5629976927
HLX-3362	H3362	11	TANGLEWOOD DR	38.0680101961	-84.4572942851
HLX-3363	H3363	3773	TEMPLE DR	37.9795135446	-84.5161589103
HLX-3364	H3364	478	PLYMOUTH DR	37.985830629	-84.5451962206
HLX-3365	H3365	3436	CORNWALL DR	37.9923246538	-84.5615883671
HLX-3366	H3366	0	OLD TODDS RD	38.0096586787	-84.4423188169
HLX-3367	H3367	3270	NICHOLASVILLE RD	37.9923687566	-84.5228319143
HLX-3368	H3368	144	E REYNOLDS RD	37.9902760895	-84.5212712504
HLX-3369	H3369	168	E REYNOLDS RD	37.9898114838	-84.5197762212
HLX-3370	H3370	243	E REYNOLDS RD	37.9895307938	-84.5176539163
HLX-3371	H3371	10	E REYNOLDS RD	37.9909351053	-84.5233703752
HLX-3372	H3372	7	DEEPWOOD DR	38.0679874546	-84.4625807331
HLX-3373	H3373	13	DEEPWOOD DR	38.0664837656	-84.4611945635
HLX-3374	H3374	3360	GRASMERE DR	37.9977959089	-84.5657387077
HLX-3375	H3375	913	BRAVINGTON WAY	37.9966953976	-84.5660851843
HLX-3376	H3376	224	ROSEMONT GDN	38.0194159845	-84.5222398517
HLX-3377	H3377	148	EDGEMOOR DR	38.0110294031	-84.5118990651
HLX-3378	H3378	2801	RICHMOND RD	38.0079535905	-84.4528422939
HLX-3379	H3379	453	POTOMAC DR	37.9858133626	-84.5429392062
HLX-3380	H3380	3442	BRUNSWICK RD	37.9866466651	-84.5426607904
HLX-3382	H3382	150	ELIZABETH ST	38.0265107108	-84.5142234433
HLX-3383	H3383	2125	LIBERTY RD	38.0287706187	-84.4507286784
HLX-3384	H3384	740	WILDERNESS RD	38.0264365983	-84.4508568653

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3385	H3385	1908	LIBERTY RD	38.0311007325	-84.4568871354
HLX-3386	H3386	426	POTOMAC DR	37.9851446363	-84.5412763617
HLX-3387	H3387	431	PLYMOUTH DR	37.984591359	-84.5427020887
HLX-3389	H3389	805	APACHE TRL	38.0079534398	-84.5525784957
HLX-3390	H3390	568	CROMWELL WAY	37.9869741739	-84.5527092814
HLX-3391	H3391	3479	BRUNSWICK RD	37.9867073819	-84.5445924369
HLX-3392	H3392	350	LANSLOWNE DR	37.9884399797	-84.5147136145
HLX-3393	H3393	3466	LANSLOWNE DR	37.9921234063	-84.5138778399
HLX-3394	H3394	3448	LANSLOWNE DR	37.9942001424	-84.5124625109
HLX-3395	H3395	3426	BROOKHAVEN DR	37.9935354634	-84.5096648723
HLX-3396	H3396	717	MALABU DR	37.9941305669	-84.5077174667
HLX-3397	H3397	733	MALABU DR	37.993663427	-84.5066145664
HLX-3398	H3398	329	HIGHTOWER RD	37.9915111071	-84.5103269496
HLX-3399	H3399	3275	TATES CREEK RD	37.9981043453	-84.4959400988
HLX-3400	H3400	2102	DEAUVILLE DR	38.0556383421	-84.5489408623
HLX-3401	H3401	2132	DEAUVILLE DR	38.0570382523	-84.5482074382
HLX-3402	H3402	2156	DEAUVILLE DR	38.0579804744	-84.5476004735
HLX-3403	H3403	1206	GARRISON AVE	38.0411957006	-84.5296226244
HLX-3404	H3404	714	GOLFVIEW DR	38.0400831619	-84.5286012912
HLX-3405	H3405	637	GOLFVIEW DR	38.0391629484	-84.526511481
HLX-3406	H3406	1533	GLOVER AVE	38.0512249432	-84.5321726702
HLX-3407	H3407	211	SOUTHPORT DR	38.0231469562	-84.5256129007
HLX-3408	H3408	117	VISTA ST	38.0227783904	-84.527332402
HLX-3409	H3409	546	LONE OAK DR	38.0243490814	-84.530621092
HLX-3410	H3410	231	SOUTHPORT DR	38.0237879944	-84.5248021892
HLX-3411	H3411	108	ELAM PK	38.0185749461	-84.5222148705
HLX-3412	H3412	225	SHADY LN	38.0130244135	-84.508792584
HLX-3413	H3413	106	SHADY LN	38.0147629844	-84.513700693
HLX-3414	H3414	1921	BELLEFONTE DR	38.0081068125	-84.5035690477
HLX-3415	H3415	1201	CRESCENT AVE	38.0299664439	-84.5149342955
HLX-3416	H3416	933	DAYTON AVE	38.0402910908	-84.4713497761
HLX-3417	H3417	937	DETROIT AVE	38.0407799187	-84.4704590813
HLX-3418	H3418	585	MITCHELL AVE	38.0220203345	-84.5311965087
HLX-3419	H3419	577	ROSEMILL DR	38.0209057826	-84.5311701136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3420	H3420	584	LONGVIEW DR	38.0198855787	-84.5322037493
HLX-3421	H3421	111	CHEROKEE PK	38.0196662022	-84.5153332786
HLX-3422	H3422	141	CHEROKEE PK	38.0201966673	-84.5170771601
HLX-3423	H3423	118	SUBURBAN CT	38.0184438901	-84.516223121
HLX-3424	H3424	144	SUBURBAN CT	38.0191062167	-84.5182993612
HLX-3427	H3427	1119	SPARKS RD	38.037913696	-84.466240184
HLX-3428	H3428	1621	COURTNEY AVE	38.035729171	-84.464224324
HLX-3429	H3429	1617	CLAYTON AVE	38.036498044	-84.4639414814
HLX-3430	H3430	1711	COURTNEY AVE	38.0348461163	-84.4629286111
HLX-3431	H3431	525	MCCUBBING DR	38.028495036	-84.5277279419
HLX-3432	H3432	624	SHERIDAN DR	38.0202034236	-84.5360416477
HLX-3434	H3434	136	LOCUST AVE	38.0605598401	-84.4737296918
HLX-3435	H3435	122	PARIS AVE	38.0633052558	-84.4754414082
HLX-3436	H3436	494	OSPREY CIR	37.989886529	-84.5419582594
HLX-3437	H3437	3381	BOSTON RD	37.9880223961	-84.5409919596
HLX-3438	H3438	438	OSPREY CIR	37.9892850156	-84.5396958344
HLX-3439	H3439	470	DENVER LN	37.9870245289	-84.5401733635
HLX-3440	H3440	398	MONTICELLO BLVD	37.9881594558	-84.5373024215
HLX-3441	H3441	1307	BEULAH PK	37.9772565834	-84.4752977254
HLX-3442	H3442	1355	BEULAH PK	37.976800304	-84.4728937322
HLX-3443	H3443	1391	BEULAH PK	37.9756187368	-84.4718851954
HLX-3444	H3444	3628	BOLD BIDDER DR	37.9776407324	-84.4718139312
HLX-3445	H3445	3664	BOLD BIDDER DR	37.9763202016	-84.4709587916
HLX-3446	H3446	1403	MERCER RD	38.0762527178	-84.5072362599
HLX-3447	H3447	736	LYNN RD	38.0295524479	-84.5334474263
HLX-3448	H3448	3361	HOLWYN RD	37.995284413	-84.548776538
HLX-3449	H3449	3344	PARTNER PL	37.9948949322	-84.5471999389
HLX-3450	H3450	3301	KEITHSHIRE WAY	37.9942407773	-84.5461076163
HLX-3451	H3451	570	DELZAN PL	37.995561603	-84.5448797855
HLX-3452	H3452	1232	MAN O WAR PL	38.0328757528	-84.5190390546
HLX-3453	H3453	919	MCCLANAHAN LN	38.0113221838	-84.4476929647
HLX-3454	H3454	2872	ASHBY GLEN PL	38.0104848824	-84.445248197
HLX-3455	H3455	0	OLD TODDS RD	38.0094075965	-84.43489547
HLX-3456	H3456	0	OLD TODDS RD	38.0091570805	-84.432280485

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3457	H3457	1729	APPOMATTOX RD	38.0398227891	-84.5443960822
HLX-3458	H3458	149	MOORE DR	37.9999892418	-84.5219589261
HLX-3459	H3459	175	MOORE DR	38.0002919182	-84.5232742142
HLX-3460	H3460	199	MOORE DR	38.0006449346	-84.5248396372
HLX-3461	H3461	210	MOUNT TABOR RD	38.0080106906	-84.4950116154
HLX-3462	H3462	305	TATES CREEK RD	38.0068003231	-84.4960616696
HLX-3463	H3463	3025	TATES CREEK RD	38.0049964045	-84.4961086857
HLX-3465	H3465	2699	LEESTOWN RD	38.0834499217	-84.5492174886
HLX-3466	H3466	122	LEESWAY DR	38.0846314133	-84.5480115084
HLX-3467	H3467	1738	BLUE LICKS RD	38.0394912882	-84.5430922099
HLX-3468	H3468	1738	GETTYSBURG RD	38.0389163157	-84.5420961768
HLX-3469	H3469	1742	YORKTOWN RD	38.0382328579	-84.5408745103
HLX-3470	H3470	180	YORKTOWN RD	38.0366099482	-84.5419780295
HLX-3471	H3471	1742	NORMANDY RD	38.0377197507	-84.539862338
HLX-3472	H3472	922	MASON HEADLEY RD	38.0406488083	-84.5384991032
HLX-3473	H3473	898	MASON HEADLEY RD	38.0408879698	-84.5360235898
HLX-3474	H3474	1560	BEACON HILL RD	38.0408879698	-84.5360235898
HLX-3475	H3475	425	HAGGARD LN	38.0754923246	-84.4594870494
HLX-3476	H3476	130	SEQUOIA DR	37.9755228512	-84.4758110371
HLX-3477	H3477	3520	AMBER KING CT	37.9757518627	-84.474731908
HLX-3478	H3478	1336	SEQUOIA DR	37.9747153922	-84.4741703011
HLX-3479	H3479	3612	SUNDART DR	37.9742971442	-84.4750384833
HLX-3481	H3481	320	CARRIAGE LN	37.9898903747	-84.4673151098
HLX-3482	H3482	3224	CARRIAGE LN	37.9884210579	-84.4675033455
HLX-3483	H3483	3245	CARRIAGE LN	37.9871288324	-84.4671775086
HLX-3484	H3484	125	GARRETT AVE	38.0509616199	-84.5344842951
HLX-3485	H3485	130	HAMILTON PK	38.0508223255	-84.536859226
HLX-3486	H3486	136	WESTGATE DR	38.05071972	-84.53850623
HLX-3487	H3487	115	WESTGATE DR	38.0493976837	-84.538356617
HLX-3489	H3489	409	LAREDO CT	37.9880075805	-84.5082887423
HLX-3490	H3490	3460	LAREDO DR	37.9864282929	-84.5076886811
HLX-3491	H3491	3429	REDCOACH TRL	37.9872054613	-84.5064958738
HLX-3492	H3492	3407	REDCOACH TRL	37.988178605	-84.5059207589
HLX-3493	H3493	3404	LAREDO DR	37.9886231509	-84.5068694859

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3494	H3494	3430	LAREDO DR	37.9874699724	-84.5071558284
HLX-3495	H3495	653	TALLY RD	38.0107660407	-84.4873668419
HLX-3496	H3496	1049	TURKEY FOOT RD	38.0107482528	-84.4861123095
HLX-3497	H3497	133	VICTORY AVE	38.0342626181	-84.4783202069
HLX-3498	H3498	111	VICTORY AVE	38.0332341235	-84.4797534932
HLX-3500	H3500	141	BASSETT AVE	38.0308105392	-84.4765646455
HLX-3501	H3501	231	BASSETT AVE	38.0326686186	-84.4738434428
HLX-3502	H3502	140	VILEY RD	38.0483192142	-84.5597838592
HLX-3503	H3503	1320	RUSSELL CAVE RD	38.070200146	-84.4777616443
HLX-3504	H3504	369	THOMPSON RD	38.0569720878	-84.5182929607
HLX-3505	H3505	1265	MANCHESTER ST	38.0574778722	-84.5222162629
HLX-3506	H3506	0	VAN METER RD	38.044597356	-84.5899923571
HLX-3507	H3507	4994	VERSAILLES RD	38.0415345261	-84.6262862421
HLX-3508	H3508	5757	VERSAILLES RD	38.0430989246	-84.6475879781
HLX-3514	H3514	2702	WESTMORLAND RD	38.0429364004	-84.634430196
HLX-3516	H3516	3605	GLOUCESTER DR	38.0489419868	-84.6286981261
HLX-3517	H3517	2917	RICHMOND RD	38.0039656361	-84.4486238332
HLX-3518	H3518	3294	RICHMOND RD	37.9997119284	-84.4439455698
HLX-3520	H3520	2291	BAHAMA RD	38.0334782593	-84.3811905666
HLX-3521	H3521	2259	BAHAMA RD	38.0316185723	-84.3825199295
HLX-3522	H3522	3520	LEESTOWN RD	38.101151102	-84.5700989307
HLX-3523	H3523	3104	LEESTOWN RD	38.0926735309	-84.5613905213
HLX-3524	H3524	121	BRADLEY LN	38.0969099994	-84.5659332657
HLX-3525	H3525	657	WILDERNESS RD	38.0245057557	-84.448719316
HLX-3526	H3526	595	WILDERNESS RD	38.0222488767	-84.4472342283
HLX-3527	H3527	520	WILDERNESS RD	38.020810981	-84.4445771671
HLX-3528	H3528	2138	LIGHTHOUSE LN	38.0280900658	-84.4467704884
HLX-3529	H3529	2433	LIBERTY RD	38.0229578193	-84.4385297733
HLX-3530	H3530	797	RAMBLING CREEK DR	38.0171604562	-84.4309094654
HLX-3531	H3531	2852	CADENTOWN RD	38.012633433	-84.4268267841
HLX-3532	H3532	3540	GLOUCESTER DR	38.0492362346	-84.6322830626
HLX-3533	H3533	2218	BAHAMA RD	38.0300000143	-84.3845801347
HLX-3534	H3534	1708	BAHAMA RD	38.0292592433	-84.3814707942
HLX-3535	H3535	1765	BAHAMA RD	38.0270240741	-84.3791536088

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3536	H3536	1805	BAHAMA RD	38.0253888636	-84.377474247
HLX-3538	H3538	3717	VERSAILLES RD	38.0445511403	-84.5846361235
HLX-3539	H3539	3559	RICE RD	38.0434944734	-84.6152715241
HLX-3540	H3540	3555	RICE RD	38.0453086695	-84.6142616767
HLX-3541	H3541	407	W NEW CIRCLE RD	38.0711412333	-84.476988874
HLX-3542	H3542	234	MEDLOCK RD	37.993020005	-84.5165978388
HLX-3543	H3543	258	MEDLOCK RD	37.9922812249	-84.5168985014
HLX-3544	H3544	3325	KENESAW DR	37.9742799713	-84.4625174172
HLX-3545	H3545	3345	KENESAW DR	37.9731461836	-84.4630124266
HLX-3546	H3546	1620	MAGNA OAK DR	37.9726448724	-84.4617810664
HLX-3547	H3547	1632	MAGNA OAK DR	37.972080475	-84.461133479
HLX-3564	H3564	4075	ROYSTER RD	38.0301495871	-84.3614884597
HLX-3565	H3565	5081	WINCHESTER RD	38.0291335332	-84.3342052834
HLX-3566	H3566	127	RIVIERA RD	38.0265883529	-84.3156792707
HLX-3567	H3567	247	RIVIERA RD	38.0263984827	-84.319645321
HLX-3568	H3568	3069	N CLEVELAND RD	38.0316022025	-84.3563073221
HLX-3569	H3569	3161	ROLLING HILLS CT	38.033882062	-84.3580698446
HLX-3570	H3570	4514	BRIAR HILL RD	38.0668626054	-84.3560725645
HLX-3571	H3571	5413	BRIAR HILL RD	38.0698993765	-84.3276464706
HLX-3573	H3573	2179	BAHAMA RD	38.0271297983	-84.3845224332
HLX-3574	H3574	2586	EDGEHILL DR	38.0478678251	-84.635263202
HLX-3575	H3575	1877	BAHAMA RD	38.0223995212	-84.3772082334
HLX-3576	H3576	2033	BAHAMA RD	38.021576083	-84.3802910448
HLX-3577	H3577	6290	ATHENS BOONESBORO RD	37.9505345363	-84.3668716051
HLX-3578	H3578	89	GENTRY RD	37.9505822308	-84.3628863156
HLX-3579	H3579	306	BRYAN STATION RD	38.0754554748	-84.416619153
HLX-3580	H3580	3801	KAREN CT	38.0411955301	-84.6352276952
HLX-3581	H3581	3840	WYSE SQ	38.0450269489	-84.6364224042
HLX-3584	H3584	1632	DONELWAL DR	38.1334043674	-84.5262818716
HLX-3585	H3585	1656	DONELWAL DR	38.1346132368	-84.5234993769
HLX-3586	H3586	2813	DAN PATCH DR	38.136725256	-84.5222791359
HLX-3587	H3587	2838	DAN PATCH DR	38.1388753397	-84.5242986843
HLX-3589	H3589	5610	MT HOREB PIKE	38.183991398	-84.4564620104
HLX-3590	H3590	3711	CAMELOT DR	37.9784611024	-84.5102333361

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3591	H3591	426	WHISPERING HILLS DR	37.9780194293	-84.5087387237
HLX-3592	H3592	450	WHISPERING HILLS DR	37.9771614074	-84.5076390878
HLX-3593	H3593	474	WHISPERING HILLS DR	37.9760054302	-84.5074577872
HLX-3594	H3594	3797	CAMELOT DR	37.9744673869	-84.5087548826
HLX-3595	H3595	3302	SPANGLER DR	37.9856563811	-84.5022620672
HLX-3596	H3596	3330	SPANGLER DR	37.9844096944	-84.5030011741
HLX-3597	H3597	3350	SPANGLER DR	37.983342341	-84.5036418193
HLX-3598	H3598	3362	SPANGLER DR	37.9827017144	-84.5043201821
HLX-3599	H3599	3374	SPANGLER DR	37.9820345139	-84.5049178842
HLX-3600	H3600	3309	GRASMERE DR	37.9973153344	-84.5678766675
HLX-3601	H3601	3320	GRASMERE DR	37.998283468	-84.5683682005
HLX-3602	H3602	3352	GRASMERE DR	37.9981330457	-84.5665182172
HLX-3603	H3603	4137	PLANTAGENET DR	38.0378126025	-84.5794607656
HLX-3604	H3604	1573	WELLESLEY DR	38.038480932	-84.5776968284
HLX-3605	H3605	3728	CAMELOT DR	37.9774642119	-84.5106091131
HLX-3606	H3606	3752	CAMELOT DR	37.975959897	-84.5108582492
HLX-3607	H3607	887	EDGEWATER DR	37.9985930909	-84.4639204078
HLX-3608	H3608	2168	ISLAND DR	38.0002340858	-84.464577927
HLX-3609	H3609	2124	ISLAND DR	38.0012782125	-84.4665728301
HLX-3610	H3610	604	LAKESHORE DR	38.0025376882	-84.4668998169
HLX-3611	H3611	633	LAKESHORE DR	38.002858892	-84.4647554269
HLX-3612	H3612	648	LAKESHORE DR	38.0034818332	-84.4630116191
HLX-3613	H3613	733	EDGEWATER DR	38.001162211	-84.463699548
HLX-3614	H3614	304	ISLAND DR	38.0022005383	-84.4631161443
HLX-3615	H3615	789	ROSE ST	38.0320234049	-84.507918348
HLX-3616	H3616	1460	NEWTOWN PIKE	38.0866880516	-84.4895136735
HLX-3617	H3617	1324	RUSSELL CAVE RD	38.06942369	-84.4788410474
HLX-3619	H3619	211	GREENDALE RD	38.0776063032	-84.537019401
HLX-3620	H3620	2630	RICHMOND RD	38.0102514573	-84.4560738601
HLX-3621	H3621	4017	EXPO CT	37.970618743	-84.5222479222
HLX-3622	H3622	2659	REGENCY RD	37.9991122675	-84.5255618854
HLX-3623	H3623	2678	REGENCY RD	37.9989941148	-84.5241504974
HLX-3624	H3624	3525	HONEY JAY CT	37.9796821233	-84.4762439945
HLX-3625	H3625	3353	PEPPERHILL RD	37.9946898144	-84.4882211352

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3626	H3626	1217	TISHOFF DR	37.9933476454	-84.4883283482
HLX-3627	H3627	1201	TISHOFF DR	37.9929020202	-84.4897890682
HLX-3628	H3628	1236	TISHOFF DR	37.9942679571	-84.487153819
HLX-3629	H3629	3422	FLEETWOOD DR	37.9965654967	-84.4865392788
HLX-3630	H3630	1750	FRANKFORT PIKE	38.0605429725	-84.5384018705
HLX-3631	H3631	1562	FRANKFORT PIKE	38.0593654785	-84.5350575918
HLX-3632	H3632	1515	FRANKFORT PIKE	38.0585236278	-84.5326325879
HLX-3633	H3633	1401	FRANKFORT PIKE	38.0582586289	-84.5299692062
HLX-3634	H3634	2327	LAKE PARK DR	38.0130155517	-84.461031212
HLX-3636	H3636	2412	LAKE PARK DR	38.0101068811	-84.4619096395
HLX-3637	H3637	2380	LAKE PARK DR	38.009036175	-84.461169761
HLX-3638	H3638	2414	LAKE PARK DR	38.009111214	-84.4618896448
HLX-3639	H3639	3395	DRAYTON PL	37.9943912755	-84.5451922151
HLX-3640	H3640	2837	YELLOWSTONE PKY	37.9941306844	-84.4593294804
HLX-3641	H3641	2801	WINTER PARK DR	37.9951183139	-84.4578392553
HLX-3642	H3642	601	EUREKA SPRINGS DR	37.9965615847	-84.4577716625
HLX-3643	H3643	557	EUREKA SPRINGS DR	37.9986175451	-84.4569409939
HLX-3644	H3644	133	MIDLAND AVE	38.0412306362	-84.4897334544
HLX-3645	H3645	340	ASHMOOR DR	37.9612818184	-84.5245747968
HLX-3646	H3646	324	SOUTHPOINT DR	37.9605932759	-84.5253348937
HLX-3647	H3647	296	SOUTHPOINT DR	37.9617147462	-84.5270268598
HLX-3648	H3648	268	SOUTHPOINT DR	37.9626414924	-84.5284145673
HLX-3649	H3649	372	ATWOOD DR	37.9600036721	-84.526408588
HLX-3650	H3650	344	ATWOOD DR	37.9608932032	-84.5280628563
HLX-3652	H3652	201	SUMMERHAYES CT	38.000456621	-84.5693873733
HLX-3653	H3653	3821	GLADMAN WAY	37.999508482	-84.5723862992
HLX-3654	H3654	3844	GLADMAN WAY	37.998949119	-84.5740223559
HLX-3655	H3655	4088	SOLBERG LN	37.9998705249	-84.574315354
HLX-3656	H3656	3820	MERRIDEW WAY	38.0001490694	-84.5730123396
HLX-3657	H3657	4080	FORSYTHE DR	38.0009659839	-84.5733052641
HLX-3658	H3658	4117	FORSYTHE DR	38.0006633549	-84.5716184301
HLX-3659	H3659	4185	FORSYTHE DR	37.9974718867	-84.5703190835
HLX-3660	H3660	3816	HEIMBAUGH LN	37.9974944554	-84.5716262068
HLX-3661	H3661	3844	HEIMBAUGH LN	37.997666824	-84.5734237968

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3662	H3662	3825	HAPGOOD LN	37.9984835751	-84.5724049366
HLX-3663	H3663	4149	FORSYTHE DR	37.9990637055	-84.5707292426
HLX-3664	H3664	277	GOLD RUSH RD	38.0012674953	-84.5300935186
HLX-3665	H3665	228	GOLD RUSH RD	38.0006005876	-84.5280592684
HLX-3666	H3666	420	REDDING RD	37.9854863378	-84.4988019373
HLX-3667	H3667	421	REDDING RD	37.9845894742	-84.497131759
HLX-3668	H3668	429	REDDING RD	37.9835200552	-84.496497154
HLX-3669	H3669	4028	ELORA LN	37.9680466127	-84.5243926877
HLX-3670	H3670	4103	BAFFIN BAY RD	37.9696082793	-84.5272585488
HLX-3671	H3671	233	QUEBEC WAY	37.9687569909	-84.5254677599
HLX-3672	H3672	633	SQUIRES RD	37.9863065733	-84.4521898529
HLX-3673	H3673	613	SQUIRES RD	37.9875793206	-84.450532286
HLX-3674	H3674	3182	GREENBO RD	37.9885476457	-84.4513989384
HLX-3675	H3675	3198	DEWEY DR	37.9885309569	-84.4497549585
HLX-3676	H3676	3179	DEWEY DR	37.9895375472	-84.4513843255
HLX-3677	H3677	60	BESHEAR CT	37.9870978642	-84.4534849873
HLX-3678	H3678	3016	DALE HOLLOW DR	37.9878463317	-84.452421806
HLX-3679	H3679	3036	DALE HOLLOW DR	37.9890778198	-84.4530352242
HLX-3680	H3680	3060	DALE HOLLOW DR	37.9903167457	-84.4535754404
HLX-3681	H3681	3092	DALE HOLLOW DR	37.9913652982	-84.4547732307
HLX-3682	H3682	3121	DALE HOLLOW DR	37.9900786213	-84.4549385899
HLX-3683	H3683	3153	DALE HOLLOW DR	37.9886236444	-84.4541707962
HLX-3684	H3684	2816	MT MCKINLEY WAY	37.9845637869	-84.4637333013
HLX-3685	H3685	2820	MT MCKINLEY WAY	37.9838624023	-84.4631221648
HLX-3686	H3686	2840	MT MCKINLEY WAY	37.9826930776	-84.4623335464
HLX-3687	H3687	1222	TRENT BLVD	37.9712691059	-84.4851296308
HLX-3688	H3688	3424	PINAS BAY DR	37.9945820088	-84.4850242808
HLX-3689	H3689	3409	HERITAGE PL	37.9951988111	-84.4843037314
HLX-3690	H3690	3416	FREELAND DR	37.9937643634	-84.4841970519
HLX-3691	H3691	845	RED MILE RD	38.0438768889	-84.5236483903
HLX-3692	H3692	6270	ATHENS WALNUT HILL PIKE	37.9502486724	-84.3681618931
HLX-3693	H3693	6338	ATHENS BOONESBORO RD	37.9499272574	-84.3656118607
HLX-3694	H3694	6435	ATHENS BOONESBORO RD	37.9488120484	-84.3633395282
HLX-3695	H3695	196	BLUE SKY PKY	37.96441	-84.37364

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3696	H3696	284	BLUE SKY PKY	37.9632247951	-84.3787035573
HLX-3697	H3697	360	BLUE SKY PKY	37.9640354755	-84.3762823803
HLX-3698	H3698	1101	DELAWARE AVE	38.0381107007	-84.4699116354
HLX-3699	H3699	1588	DELAWARE AVE	38.0362790109	-84.4671910974
HLX-3700	H3700	3267	CARRIAGE LN	37.9865358903	-84.4659567915
HLX-3701	H3701	3281	CARRIAGE LN	37.9859707649	-84.4649645179
HLX-3702	H3702	3297	CARRIAGE LN	37.9849429988	-84.4649402705
HLX-3703	H3703	455	PARK PL	38.0693550381	-84.4836175263
HLX-3704	H3704	406	PARK PL	38.0682877977	-84.4825009788
HLX-3705	H3705	721	ROLAND AVE	38.0468382221	-84.4450581512
HLX-3706	H3706	733	LAKEVIEW DR	38.030590877	-84.4578018207
HLX-3707	H3707	5525	BRIAR HILL RD	38.0702620271	-84.3248478457
HLX-3708	H3708	4595	BRYAN STATION RD	38.1045643855	-84.3758617217
HLX-3709	H3709	5323	BRIAR HILL RD	38.0695200991	-84.3305664085
HLX-3710	H3710	3380	PARIS PIKE	38.0977828373	-84.4209850129
HLX-3711	H3711	1201	WALKERS WAY	38.0073134026	-84.4903175156
HLX-3712	H3712	1957	SHADYBROOK LN	38.0040404247	-84.4796369484
HLX-3713	H3713	2020	SHADYBROOK LN	38.0007398975	-84.4752257218
HLX-3714	H3714	5141	VERSAILLES RD	38.0401823462	-84.6297397497
HLX-3715	H3715	4751	KEENE RD	37.9963724133	-84.5920584769
HLX-3716	H3716	4790	KEENE RD	37.9956783333	-84.5948535202
HLX-3717	H3717	4379	HARRODSBURG RD	37.9962797532	-84.5849005713
HLX-3718	H3718	2108	CAVE HILL LN	38.0093880502	-84.5671331212
HLX-3719	H3719	5235	FORT SPRINGS PINCKARD RD	38.0137521469	-84.6410551482
HLX-3720	H3720	327	S EAGLE CREEK DR	37.9936330931	-84.4503651104
HLX-3721	H3721	283	S EAGLE CREEK DR	37.9946484633	-84.4501563024
HLX-3722	H3722	251	S EAGLE CREEK DR	37.9956599974	-84.4485468359
HLX-3723	H3723	3320	BEAVER CREEK DR	37.9950322205	-84.447429797
HLX-3724	H3724	222	S EAGLE CREEK DR	37.99660704	-84.4471700806
HLX-3725	H3725	3321	OTTER CREEK DR	37.9941072637	-84.4490905556
HLX-3726	H3726	3361	OTTER CREEK DR	37.99432699	-84.44644693
HLX-3727	H3727	383	S EAGLE CREEK DR	37.9932496472	-84.4473835104
HLX-3728	H3728	3332	BEAVER CREEK DR	37.9943023756	-84.4478110923
HLX-3729	H3729	191	S EAGLE CREEK DR	37.9971730893	-84.4458397708

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 101 of 252
HLX-3730	H3730	157	S EAGLE CREEK DR	37.9979542575	-84.4447630717
HLX-3732	H3732	3322	COVE LAKE DR	37.9963073932	-84.4452249297
HLX-3733	H3733	3338	COVE LAKE DR	37.9955075253	-84.4449307611
HLX-3734	H3734	3356	COVE LAKE DR	37.9946326353	-84.4447840896
HLX-3735	H3735	352	S EAGLE CREEK DR	37.9932802383	-84.4486692699
HLX-3736	H3736	3227	PIMLICO PKY	37.9899161076	-84.4660922638
HLX-3737	H3737	3206	PIMLICO PKY	37.9890936263	-84.4646019183
HLX-3738	H3738	3189	PIMLICO PKY	37.9886536498	-84.4634063145
HLX-3739	H3739	3183	YELLOWSTONE PKY	37.989863858	-84.4628421043
HLX-3740	H3740	1336	POST OAK RD	37.9903539874	-84.4642684735
HLX-3741	H3741	1316	POST OAK RD	37.9909636733	-84.4656760959
HLX-3742	H3742	423	MONTICELLO BLVD	37.9890065622	-84.5383539175
HLX-3743	H3743	756	E 7TH ST	38.0453984802	-84.4719753997
HLX-3744	H3744	5290	TATES CREEK RD	37.9445498556	-84.4826495251
HLX-3745	H3745	5693	BRIAR HILL RD	38.0714674721	-84.3195104084
HLX-3746	H3746	3161	PIMLICO PKY	37.9871857802	-84.4619861688
HLX-3747	H3747	3169	PIMLICO PKY	37.9879010155	-84.462660358
HLX-3748	H3748	500	MT HOREB PIKE	38.1718744959	-84.463240534
HLX-3749	H3749	4927	RUSSELL CAVE RD	38.1480541038	-84.4115480105
HLX-3750	H3750	500	LAKETOWER DR	38.0100320916	-84.4693617487
HLX-3751	H3751	500	LAKETOWER DR	38.0095664799	-84.4683027123
HLX-3752	H3752	3345	BOSTON RD	37.9884769767	-84.5392856151
HLX-3753	H3753	612	GALAXIE DR	38.0154822339	-84.4922383383
HLX-3754	H3754	925	WISHBONE CIR	38.0150973884	-84.4940092609
HLX-3755	H3755	624	GALAXIE DR	38.0143530937	-84.4922905555
HLX-3756	H3756	3401	SIMCOE DR	37.9932957891	-84.4868233611
HLX-3757	H3757	3409	SIMCOE DR	37.9925771714	-84.4869994965
HLX-3758	H3758	3421	BOSTON RD	37.9884067486	-84.5431961235
HLX-3759	H3759	203	RAND AVE	38.0517624319	-84.485608387
HLX-3760	H3760	1483	BOARDWALK	38.0703379467	-84.4834639323
HLX-3761	H3761	1487	BOARDWALK	38.0716546111	-84.4830980243
HLX-3762	H3762	4205	FORSYTHE DR	37.9964538513	-84.570522383
HLX-3763	H3763	4221	FORSYTHE DR	37.9956280424	-84.5706519165
HLX-3764	H3764	1917	COTTONWOOD DR	37.9957531332	-84.5718639594

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3765	H3765	1965	COTTONWOOD DR	37.995024041	-84.5729417707
HLX-3766	H3766	4285	FORSYTHE DR	37.9938937893	-84.5731121056
HLX-3767	H3767	4253	FORSYTHE DR	37.9945388248	-84.5714715448
HLX-3768	H3768	4305	FORSYTHE DR	37.9941841543	-84.574254954
HLX-3769	H3769	3941	GLADMAN WAY	37.9943975874	-84.5752859954
HLX-3770	H3770	3917	GLADMAN WAY	37.9955978891	-84.5751077993
HLX-3771	H3771	3889	GLADMAN WAY	37.9968530952	-84.5746486883
HLX-3772	H3772	1924	MINT JULEP LN	37.9955641104	-84.5740398767
HLX-3773	H3773	3849	PLANTATION DR	37.9967519281	-84.5736391508
HLX-3774	H3774	3824	PLANTATION DR	37.9966229426	-84.5721975003
HLX-3775	H3775	626	CADEN LN	38.0090585038	-84.427489615
HLX-3781	H3781	368	REDDING RD	37.9892600032	-84.5078296034
HLX-3782	H3782	3421	ALPINE CT	37.9901689776	-84.507300202
HLX-3783	H3783	3701	CROSBY DR	37.9722453573	-84.4857671292
HLX-3784	H3784	1207	TRENT BLVD	37.9713863487	-84.4861226976
HLX-3785	H3785	3665	SUNDART DR	37.9732736312	-84.4728408888
HLX-3786	H3786	1368	SEQUOIA DR	37.9739997622	-84.4727376634
HLX-3787	H3787	3713	SUNDART DR	37.9739485797	-84.4709567713
HLX-3788	H3788	1392	BEULAH PK	37.9747441011	-84.47133695
HLX-3789	H3789	3688	BOLD BIDDER DR	37.975281898	-84.4703283144
HLX-3790	H3790	3704	BOLD BIDDER DR	37.9744881755	-84.4698117732
HLX-3791	H3791	3620	BILORETE CT	37.9755307255	-84.4692118702
HLX-3792	H3792	3769	SUNDART DR	37.9751833375	-84.4681206956
HLX-3793	H3793	3636	REMORA DR	37.9760838502	-84.4684385753
HLX-3794	H3794	4532	GRAVES DR	37.9593261221	-84.5252144764
HLX-3795	H3795	348	SOUTHPOINT DR	37.9598838515	-84.523988364
HLX-3796	H3796	4508	GRAVES DR	37.9603523714	-84.523099614
HLX-3797	H3797	0	W HIGH ST	38.0485847753	-84.5028431577
HLX-3798	H3798	435	W HIGH ST	38.0481707622	-84.5023363525
HLX-3799	H3799	1789	TATES CREEK RD	38.013707214	-84.4954233106
HLX-3800	H3800	1402	VERSAILLES RD	38.0493912909	-84.5258916327
HLX-3801	H3801	2355	HARRODSBURG RD	38.0207761581	-84.5442340073
HLX-3802	H3802	0	OLD RICHMOND RD	37.9790604783	-84.4250916989
HLX-3803	H3803	120	DELONG RD	37.9686814	-84.4478934903

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3804	H3804	3513	BOSTON RD	37.9858212662	-84.5470434623
HLX-3805	H3805	484	CROMWELL WAY	37.9846742191	-84.5475439335
HLX-3806	H3806	456	CROMWELL WAY	37.9840627477	-84.545956225
HLX-3807	H3807	475	RETRAC RD	37.9848840095	-84.5454209827
HLX-3808	H3808	193	DONABROOK CT	37.9887323027	-84.5155251147
HLX-3809	H3809	241	PASADENA DR	38.0049623081	-84.5239345325
HLX-3810	H3810	185	PASADENA DR	38.0043215894	-84.5220433821
HLX-3811	H3811	441	SEVERN WAY	38.0029873293	-84.5305583689
HLX-3812	H3812	414	STONE RD	38.0059742988	-84.5290134634
HLX-3813	H3813	1352	STRAWBERRY LN	38.0102850989	-84.4890335742
HLX-3814	H3814	1331	STRAWBERRY LN	38.0108835282	-84.4901247372
HLX-3815	H3815	629	SUMMERSHADE CIR	38.0113502639	-84.4912922829
HLX-3816	H3816	715	LAKESHORE DR	38.0064410141	-84.4616857201
HLX-3817	H3817	827	LAKESHORE DR	38.0053539425	-84.4616559194
HLX-3818	H3818	80	LAKESHORE DR	38.0054399177	-84.4632449879
HLX-3819	H3819	768	LAKESHORE DR	38.0058416177	-84.4650983111
HLX-3820	H3820	747	LAKESHORE DR	38.0069590154	-84.4637061075
HLX-3821	H3821	3321	CARRIAGE LN	37.9838745416	-84.4658265466
HLX-3822	H3822	3345	CARRIAGE LN	37.9825833533	-84.4665018569
HLX-3823	H3823	3369	CARRIAGE LN	37.9813502134	-84.4669458223
HLX-3824	H3824	3913	SUNDART DR	37.9818276375	-84.464719735
HLX-3825	H3825	3873	SUNDART DR	37.9797703024	-84.4648544724
HLX-3826	H3826	1417	MT RAINIER DR	37.9803748804	-84.4666361362
HLX-3827	H3827	3201	BUCKHORN DR	37.9858673249	-84.4539516432
HLX-3828	H3828	3213	BUCKHORN DR	37.9848731037	-84.4538242863
HLX-3829	H3829	2928	MT MCKINLEY WAY	37.9808628972	-84.4612422874
HLX-3830	H3830	2969	MT MCKINLEY WAY	37.9792757179	-84.4619693155
HLX-3831	H3831	3245	MT FORAKER DR	37.9796137371	-84.4604442124
HLX-3832	H3832	3305	MT FORAKER DR	37.9793933649	-84.4592890445
HLX-3833	H3833	3336	MT FORAKER DR	37.9782912187	-84.4599897026
HLX-3834	H3834	3365	MT FORAKER DR	37.9782018398	-84.4616410567
HLX-3835	H3835	3384	MT FORAKER DR	37.9785028967	-84.4623499254
HLX-3839	H3839	3408	GRASMERE DR	37.9959053826	-84.5649051421
HLX-3840	H3840	3420	GRASMERE DR	37.9951995912	-84.5652094464

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3841	H3841	920	WITTHUHN WAY	37.9951202671	-84.567043101
HLX-3842	H3842	783	LONGWOOD RD	37.9939975904	-84.5671975116
HLX-3843	H3843	948	WITTHUHN WAY	37.9943850336	-84.5684686483
HLX-3844	H3844	1223	ACCORD DR	37.9783291908	-84.4869561564
HLX-3845	H3845	3646	APPIAN WAY	37.977033434	-84.4881124956
HLX-3846	H3846	1176	MILLCREEK DR	37.978171118	-84.48922749
HLX-3847	H3847	1189	ACCORD DR	37.97877437	-84.48824557
HLX-3848	H3848	640	EUREKA SPRINGS DR	37.9952465134	-84.455658868
HLX-3849	H3849	280	EASTHILLS DR	37.9950005639	-84.4547766892
HLX-3850	H3850	2833	EASTHILLS DR	37.9941522772	-84.4530193518
HLX-3851	H3851	2833	WINTER GDN	37.9935264902	-84.4553011364
HLX-3852	H3852	2861	WINTER GDN	37.9927573723	-84.4555721186
HLX-3853	H3853	2828	WINTER PARK DR	37.9939891992	-84.4568693209
HLX-3854	H3854	1370	DIX DR	37.9674768954	-84.4821153239
HLX-3857	H3857	1492	MT RAINIER DR	37.9808343827	-84.463137924
HLX-3858	H3858	390	SUNDART DR	37.9808215001	-84.4642808604
HLX-3859	H3859	2957	CANDLELIGHT WAY	38.005490776	-84.4916012863
HLX-3860	H3860	2917	CANDLELIGHT WAY	38.0068481715	-84.491337055
HLX-3865	H3865	3120	PIMLICO PKY	37.9861693721	-84.4609283037
HLX-3866	H3866	1178	TRENT BLVD	37.9712831324	-84.4881345134
HLX-3867	H3867	1187	TATESBROOK DR	37.9721326339	-84.4871003234
HLX-3868	H3868	720	LONGWOOD RD	37.9904399773	-84.5676255911
HLX-3869	H3869	3484	GRASMERE DR	37.9916580371	-84.5669934511
HLX-3870	H3870	744	LONGWOOD RD	37.9912712895	-84.5684654953
HLX-3871	H3871	755	LONGWOOD RD	37.9923803345	-84.5679077735
HLX-3872	H3872	1309	GRAY CT	37.9928425934	-84.5684397513
HLX-3873	H3873	3840	HOPEMONT DR	37.991328016	-84.571221072
HLX-3874	H3874	1816	HOPEMONT CT	37.9920643916	-84.5720389512
HLX-3875	H3875	3813	HOPEMONT DR	37.9925445064	-84.5709685735
HLX-3876	H3876	2498	SANDERSVILLE RD	38.0866730835	-84.5313113952
HLX-3877	H3877	2314	SANDERSVILLE RD	38.0865885265	-84.5212543702
HLX-3878	H3878	2370	SANDERSVILLE RD	38.0867116117	-84.5235506006
HLX-3879	H3879	2234	SANDERSVILLE RD	38.0861775863	-84.5162777808
HLX-3880	H3880	1608	IRON WORKS PIKE	38.118895195	-84.4472989717

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3881	H3881	3375	RUSSELL CAVE RD	38.1204077567	-84.4451194468
HLX-3882	H3882	1555	E NEW CIRCLE RD	38.0182656277	-84.4540110182
HLX-3883	H3883	1555	E NEW CIRCLE RD	38.0192528897	-84.4536865495
HLX-3884	H3884	1555	E NEW CIRCLE RD	38.0203044819	-84.4532302376
HLX-3885	H3885	1555	E NEW CIRCLE RD	38.021355604	-84.4530598928
HLX-3886	H3886	3632	LAREDO DR	37.981401533	-84.5041914346
HLX-3887	H3887	3369	DOWNING PL	37.9799000447	-84.5051158702
HLX-3888	H3888	3379	SPANGLER DR	37.9815408779	-84.5056102553
HLX-3889	H3889	3797	SUNDART DR	37.9758274371	-84.4669729739
HLX-3890	H3890	3740	KITTIWAKE DR	37.9773169809	-84.4679472597
HLX-3891	H3891	3797	KITTIWAKE DR	37.9784306085	-84.4674863503
HLX-3892	H3892	1421	JOCASTA DR	37.97950771	-84.4670425547
HLX-3893	H3893	3816	SUNDART DR	37.9771508028	-84.4660975225
HLX-3894	H3894	3849	SUNDART DR	37.9781440892	-84.4655669452
HLX-3895	H3895	1473	JOCASTA DR	37.9786467032	-84.4643746805
HLX-3896	H3896	680	WILSON DOWNING RD	37.9746679683	-84.5001328093
HLX-3897	H3897	6922	GREENWICH PIKE	38.1890903087	-84.3740002974
HLX-3898	H3898	6610	RUSSELL CAVE RD	38.1894072651	-84.4007421005
HLX-3899	H3899	6984	RUSSELL CAVE RD	38.1975793962	-84.396570044
HLX-3900	H3900	6921	RUSSELL CAVE RD	38.1956478919	-84.3975841899
HLX-3901	H3901	2554	PALUMBO DR	38.0150644709	-84.4417580921
HLX-3902	H3902	2570	PALUMBO DR	38.0144295307	-84.4408354944
HLX-3903	H3903	2599	PALUMBO DR	38.0137728705	-84.4399492301
HLX-3904	H3904	4097	PLANTAGENET DR	38.0396248791	-84.5749743078
HLX-3905	H3905	409	LENNEY DR	37.9774249924	-84.5095351826
HLX-3906	H3906	129	TRAFTON ST	38.0514165113	-84.5256375469
HLX-3907	H3907	107	TRAFTON ST	38.0503729928	-84.5256201412
HLX-3908	H3908	1307	BAKER CT	38.0753346357	-84.5156681571
HLX-3909	H3909	1301	BAKER CT	38.0766308253	-84.515595266
HLX-3910	H3910	1353	BAKER CT	38.0777981501	-84.51563593
HLX-3911	H3911	118	JAMES CT	38.0417269189	-84.4563245843
HLX-3912	H3912	137	JAMES CT	38.0411287118	-84.4552868613
HLX-3915	H3915	1014	RUSHWOOD CT	38.0804540946	-84.496490502
HLX-3916	H3916	3453	GRASMERE DR	37.9933604189	-84.5661662905

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3917	H3917	616	SUMMERSHADE CIR	38.0125348172	-84.4906827347
HLX-3918	H3918	617	CENTENNIAL LN	38.0122027271	-84.4894427218
HLX-3919	H3919	420	BLUE SKY PKY	37.9645444327	-84.3744048429
HLX-3920	H3920	489	BLUE SKY PKY	37.963760925	-84.3728652069
HLX-3921	H3921	549	BLUE SKY PKY	37.96441	-84.37364
HLX-3922	H3922	580	BLUE SKY PKY	37.961082039	-84.3735870733
HLX-3923	H3923	623	BLUE SKY PKY	37.9601751181	-84.3754379747
HLX-3924	H3924	649	BLUE SKY PKY	37.9593730878	-84.3769504519
HLX-3925	H3925	689	BLUE SKY PKY	37.9580549991	-84.3774332928
HLX-3926	H3926	330	SHOAL LAKE DR	37.986266465	-84.4553418059
HLX-3927	H3927	3285	SHOAL LAKE DR	37.986391746	-84.4571215724
HLX-3928	H3928	3253	SHOAL LAKE DR	37.9871354863	-84.4578513385
HLX-3929	H3929	3225	SHOAL LAKE DR	37.9884752159	-84.4569709563
HLX-3930	H3930	2817	SNOW RD	37.9938220663	-84.4582940696
HLX-3931	H3931	2840	SNOW RD	37.9928446847	-84.457498536
HLX-3932	H3932	2885	WINTER GDN	37.9917705634	-84.4566550835
HLX-3933	H3933	3141	WARRENWOOD WYND	37.9977345167	-84.4824441648
HLX-3934	H3934	3116	WARRENWOOD WYND	37.997960863	-84.4840353516
HLX-3935	H3935	3192	PEPPERHILL RD	37.9996088186	-84.4841626995
HLX-3936	H3936	981	CHINOE RD	38.0006405033	-84.4831810142
HLX-3937	H3937	949	CHINOE RD	38.0018784156	-84.4846854866
HLX-3938	H3938	2544	PALUMBO DR	38.0157400668	-84.4426535498
HLX-3939	H3939	2960	WINTER GDN	37.9930565274	-84.4589562241
HLX-3940	H3940	2908	WINTER GDN	37.9920083531	-84.4575288928
HLX-3941	H3941	0	OLD TODDS RD	38.0094551431	-84.4543456452
HLX-3942	H3942	150	TODDS RD	38.0098843476	-84.4536825987
HLX-3943	H3943	3515	RICHMOND RD	37.9956377459	-84.4392559579
HLX-3944	H3944	3480	YORKSHIRE MEDICAL PK	37.9965651576	-84.4378511276
HLX-3945	H3945	117	YORKSHIRE BLVD	37.9970073867	-84.4372124982
HLX-3946	H3946	175	YORKSHIRE BLVD	37.9983052875	-84.4353071158
HLX-3947	H3947	2974	EASTHILLS DR	37.9913636692	-84.4484224129
HLX-3948	H3948	459	WOODVIEW DR	37.9907415999	-84.4498862051
HLX-3949	H3949	2964	EASTHILLS DR	37.9919478438	-84.4493855201
HLX-3950	H3950	471	SQUIRES RD	37.9897542768	-84.4486679988

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3951	H3951	407	WOODVIEW DR	37.9925279927	-84.4477770174
HLX-3952	H3952	1075	GOODWIN DR	38.0454688057	-84.4620703365
HLX-3957	H3957	4208	CLEMENS DR	37.9920773834	-84.5769310424
HLX-3958	H3958	2025	LANGHORNE DR	37.9908916076	-84.5779841743
HLX-3959	H3959	1992	LANGHORNE DR	37.9906802712	-84.5763875284
HLX-3960	H3960	4261	CLEMENS DR	37.9893690725	-84.5767981034
HLX-3961	H3961	347	PASADENA DR	38.0062371454	-84.5275073336
HLX-3962	H3962	1687	ADIOS DR	38.1382057866	-84.5259375699
HLX-3963	H3963	330	CODELL DR	38.0181092713	-84.4530142548
HLX-3964	H3964	3458	TATES CREEK LN	37.9843524754	-84.4936369765
HLX-3965	H3965	3528	WINDING DR	37.9844149416	-84.4916081692
HLX-3966	H3966	50	HORTON CT	38.0854586563	-84.5394716508
HLX-3967	H3967	550	HORTON CT	38.0862232949	-84.5389598402
HLX-3969	H3969	383	WOODVIEW DR	37.9929282165	-84.4460344313
HLX-3971	H3971	203	PRICE RD	38.0629244292	-84.5147784036
HLX-3972	H3972	200	PRICE RD	38.060877512	-84.5156277527
HLX-3974	H3974	385	GREENDALE RD	38.0810010841	-84.534992773
HLX-3975	H3975	1619	DUNTREATH DR	38.0440224151	-84.5374179772
HLX-3976	H3976	942	WOLF RUN DR	38.0426629418	-84.5389227335
HLX-3977	H3977	1518	ROANOKE RD	38.0449098557	-84.5498955513
HLX-3978	H3978	3370	BEAVER CREEK DR	37.9918483138	-84.4470176787
HLX-3979	H3979	1303	STANLEY AVE	38.0309812841	-84.5160515527
HLX-3980	H3980	1152	TATESBROOK DR	37.9732934903	-84.488073542
HLX-3981	H3981	1107	TATESBROOK DR	37.974142635	-84.4897821476
HLX-3982	H3982	3601	FOX RUN RD	37.9724317945	-84.488452676
HLX-3983	H3983	1138	TRENT BLVD	37.9718277827	-84.4899792379
HLX-3984	H3984	4322	IRON WORKS PIKE	38.1461122995	-84.5269428628
HLX-3985	H3985	1263	E NEW CIRCLE RD	38.0306151324	-84.4523391349
HLX-3986	H3986	2142	CHRISTIAN RD	38.0307012322	-84.4507695338
HLX-3987	H3987	2179	CHRISTIAN RD	38.030086494	-84.4497009033
HLX-3988	H3988	3264	LOCH NESS DR	37.990633145	-84.5191393668
HLX-3989	H3989	3224	BUCKHORN DR	37.9844885288	-84.4526631483
HLX-3990	H3990	3249	BUCKHORN DR	37.9831862952	-84.4517139237
HLX-3991	H3991	3273	BUCKHORN DR	37.9820716769	-84.4515123947

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3992	H3992	330	BUCKHORN DR	37.9803356001	-84.4522074653
HLX-3993	H3993	3249	PEBBLE LAKE DR	37.9813753517	-84.453571433
HLX-3994	H3994	101	CRYSTAL CT	37.982443121	-84.4541066466
HLX-3995	H3995	2920	EASTHILLS DR	37.9931353455	-84.4515384647
HLX-3996	H3996	3057	TUSCALOOSA LN	37.9923856562	-84.4522028129
HLX-3997	H3997	2997	TUSCALOOSA LN	37.9920948161	-84.4529294386
HLX-3998	H3998	2949	EASTHILLS DR	37.9923772648	-84.4501778611
HLX-3999	H3999	2957	TUSCALOOSA LN	37.9907403638	-84.4511475125
HLX-4000	H4000	3683	GROVE LN	37.9762228986	-84.5020813019
HLX-4001	H4001	3670	WALDEN DR	37.9770969233	-84.5014714689
HLX-4002	H4002	3156	YELLOWSTONE PKY	37.9911075211	-84.4621932233
HLX-4003	H4003	2902	YELLOWSTONE PKY	37.9927850603	-84.460627961
HLX-4004	H4004	3177	CUSTER DR	37.9871547547	-84.460340908
HLX-4005	H4005	1175	MT RUSHMORE DR	37.9824541709	-84.4598258733
HLX-4006	H4006	3013	PIMLICO PKY	37.9831110428	-84.4582382753
HLX-4007	H4007	3039	PIMLICO PKY	37.9841700582	-84.4575928968
HLX-4008	H4008	1121	KALONE WAY	37.9855719787	-84.4577020484
HLX-4009	H4009	1147	KALONE WAY	37.9853935167	-84.4562080782
HLX-4010	H4010	1201	KALONE WAY	37.9838096697	-84.4564334889
HLX-4011	H4011	3229	VALHALLA DR	37.9824833589	-84.4565254683
HLX-4012	H4012	3083	PIMLICO PKY	37.9852119971	-84.4583215482
HLX-4013	H4013	1133	MT RUSHMORE WAY	37.9839400364	-84.4589095728
HLX-4014	H4014	1920	PARKERS MILL RD	38.0359520569	-84.5652626707
HLX-4015	H4015	184	ROSEMONT GDN	38.018690913	-84.5200769529
HLX-4016	H4016	148	ROSEMONT GDN	38.0179996601	-84.5180790646
HLX-4017	H4017	124	ROSEMONT GDN	38.0174783107	-84.5165959919
HLX-4018	H4018	1494	LEESTOWN RD	38.0651499223	-84.5229286583
HLX-4019	H4019	1432	LEESTOWN RD	38.064182061	-84.521541302
HLX-4020	H4020	559	S FORBES RD	38.0508561367	-84.5233341435
HLX-4021	H4021	5897	RICHMOND RD	37.9398627611	-84.4058303316
HLX-4022	H4022	252	RODES AVE	38.0426320176	-84.4993224769
HLX-4023	H4023	1101	CENTER PKY	37.9858509832	-84.4849191546
HLX-4029	H4029	3240	YELLOWSTONE PKY	37.9875602286	-84.4655765742
HLX-4030	H4030	3165	YELLOWSTONE PKY	37.9907784994	-84.4626350983

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4031	H4031	1338	LEANING TREE LN	37.9915938949	-84.4644122749
HLX-4032	H4032	208	FORT HARRODS DR	38.009841535	-84.5623894847
HLX-4033	H4033	3350	NEVIUS DR	38.0108238286	-84.5608067071
HLX-4034	H4034	3330	NEVIUS DR	38.0114047553	-84.5597262862
HLX-4035	H4035	3395	SNAFFLE RD	38.0094564695	-84.5646151444
HLX-4036	H4036	2020	FORT HARRODS DR	38.0105333597	-84.5631074336
HLX-4037	H4037	3343	SNAFFLE RD	38.0114343239	-84.5615520321
HLX-4038	H4038	3310	SNAFFLE RD	38.012151141	-84.5604142313
HLX-4039	H4039	208	ERMINE CT	38.0105404233	-84.5644455981
HLX-4040	H4040	2040	FORT HARRODS DR	38.0114010678	-84.563996259
HLX-4041	H4041	2056	FORT HARRODS DR	38.0122251618	-84.5651231066
HLX-4042	H4042	2037	PARASOL DR	38.012367757	-84.5630133584
HLX-4043	H4043	2057	PARASOL DR	38.0130365204	-84.5644425214
HLX-4044	H4044	2020	BAMBOO DR	38.0129356424	-84.5620464388
HLX-4045	H4045	2053	BAMBOO DR	38.0138152732	-84.5638863358
HLX-4046	H4046	3378	MANTILLA DR	38.0111203699	-84.5660256952
HLX-4047	H4047	3422	SNAFFLE RD	38.009829153	-84.5666229958
HLX-4048	H4048	3719	TRENT CIR	37.9697861996	-84.4819966781
HLX-4049	H4049	2689	BEREA RD	38.1417210522	-84.515544548
HLX-4050	H4050	270	WILHITE DR	37.9980485592	-84.5207852852
HLX-4051	H4051	2691	WILHITE DR	37.9973765465	-84.5197036597
HLX-4052	H4052	2670	WILHITE DR	37.9965930395	-84.5189581919
HLX-4053	H4053	2631	WILHITE DR	37.9969301082	-84.5177840714
HLX-4054	H4054	601	W HIGH ST	38.0494850765	-84.5038321507
HLX-4055	H4055	2399	STERLINGTON RD	37.9921650866	-84.4615868272
HLX-4056	H4056	2363	STERLINGTON RD	37.9924723658	-84.4633209512
HLX-4057	H4057	2360	CHAUVIN DR	37.9935274112	-84.4629687128
HLX-4058	H4058	3897	HIDDEN SPRINGS DR	37.9799187025	-84.5610151989
HLX-4059	H4059	3949	HIDDEN SPRINGS DR	37.9791319042	-84.5590476432
HLX-4060	H4060	1037	WEDGEWOOD RD	37.9805993245	-84.5582099776
HLX-4061	H4061	3804	HIDDEN SPRINGS DR	37.9821795491	-84.5573431905
HLX-4062	H4062	3825	GRASSY CREEK DR	37.9835702461	-84.5567635373
HLX-4063	H4063	1117	BAY MEADOWS DR	37.9831048127	-84.5577293134
HLX-4064	H4064	1153	BAY MEADOWS DR	37.983863441	-84.5591866413

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4065	H4065	1133	WOOD RIDGE RD	37.9826540995	-84.5596108581
HLX-4066	H4066	1101	WOOD RIDGE RD	37.9816123247	-84.5586792333
HLX-4067	H4067	3861	HIDDEN SPRINGS DR	37.9812021553	-84.5600901901
HLX-4068	H4068	3805	GRASSY CREEK DR	37.9846416129	-84.5563838302
HLX-4069	H4069	1367	STRAWBERRY LN	38.0093290437	-84.4876922781
HLX-4070	H4070	70	TURF CT	38.0082737642	-84.4865364284
HLX-4071	H4071	1380	STRAWBERRY LN	38.0086822187	-84.4870392326
HLX-4072	H4072	3772	CAMELOT DR	37.9748591601	-84.5100889787
HLX-4073	H4073	437	LENNEY DR	37.9764562047	-84.5084550644
HLX-4074	H4074	168	BURT RD	38.0078877108	-84.5207004986
HLX-4075	H4075	3141	HIGH RIDGE DR	37.9886098556	-84.4611977579
HLX-4076	H4076	3118	HIGH RIDGE DR	37.9896394132	-84.4611052566
HLX-4077	H4077	3868	GLOUCESTER DR	38.0505708383	-84.6340702995
HLX-4078	H4078	3613	LAREDO DR	37.9819585849	-84.5068613992
HLX-4079	H4079	3573	LAREDO DR	37.98353	-84.50744
HLX-4080	H4080	3512	LAREDO DR	37.9846429794	-84.5085270617
HLX-4081	H4081	3466	LAREDO DR	37.986225631	-84.5083578928
HLX-4082	H4082	208	DES COGNETS LN	37.9990581478	-84.4785230465
HLX-4083	H4083	3509	CHEDDINGTON LN	37.9984666478	-84.479510807
HLX-4084	H4084	1071	CHINOE RD	37.9968124921	-84.4813624693
HLX-4085	H4085	1105	CHINOE RD	37.9949698943	-84.4819091273
HLX-4086	H4086	1124	DUNBARTON LN	37.9947106319	-84.4810832118
HLX-4087	H4087	1128	CHINOE RD	37.9932179361	-84.4822850373
HLX-4088	H4088	1029	CHINOE RD	37.9992861047	-84.4804033219
HLX-4089	H4089	702	CAMINO DR	38.0115710271	-84.4937393063
HLX-4090	H4090	692	ELK LAKE DR	37.9954477933	-84.4539505571
HLX-4091	H4091	3155	BEAVER CREEK DR	37.9972807099	-84.4531421102
HLX-4092	H4092	612	HIDDEN POINT DR	37.996995275	-84.4519841692
HLX-4093	H4093	620	ELK LAKE DR	37.9960491762	-84.4511394007
HLX-4094	H4094	661	ELK LAKE DR	37.9951630444	-84.4525557735
HLX-4095	H4095	724	NAKOMI DR	38.0121841016	-84.5489354571
HLX-4096	H4096	1301	GRAY HAWK RD	38.0101870518	-84.491868925
HLX-4097	H4097	1141	TURKEY FOOT RD	38.0086918193	-84.4912357304
HLX-4098	H4098	1316	GRAY HAWK RD	38.0093519344	-84.4900864294

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4099	H4099	110	TURKEY FOOT RD	38.0080689401	-84.488811579
HLX-4100	H4100	435	PASADENA DR	38.0084630288	-84.5315814656
HLX-4102	H4102	451	LAMONT DR	38.0076285932	-84.5318669565
HLX-4103	H4103	475	LAMONT DR	38.0082326798	-84.5333475121
HLX-4104	H4104	3264	BOWIE DR	37.9917131463	-84.4682619242
HLX-4105	H4105	1309	POST OAK RD	37.9911778797	-84.4667501279
HLX-4106	H4106	3191	AQUEDUCT DR	37.9925368555	-84.4663516757
HLX-4107	H4107	3215	AQUEDUCT DR	37.9935657648	-84.4671687994
HLX-4108	H4108	4528	MANDEVILLE WAY	37.9585551428	-84.5220281179
HLX-4109	H4109	519	MICHIGAN ST	38.0632336836	-84.5008941289
HLX-4110	H4110	209	SAWYER CT	37.984477829	-84.5782431828
HLX-4111	H4111	4353	CALEVARES DR	37.98493179	-84.57732605
HLX-4112	H4112	4353	CLEMENS DR	37.9855863791	-84.5789741878
HLX-4113	H4113	4325	CLEMENS DR	37.9867883762	-84.5792605455
HLX-4114	H4114	4308	CLEMENS DR	37.9879095773	-84.5784905267
HLX-4115	H4115	1992	TWAIN RIDGE DR	37.9886135945	-84.5772946499
HLX-4116	H4116	1976	TWAIN RIDGE DR	37.9876584865	-84.5767209696
HLX-4117	H4117	4328	CALEVARES DR	37.9861220518	-84.5772328278
HLX-4118	H4118	2029	HUCKLEBERRY CIR	37.9869081798	-84.5781341696
HLX-4119	H4119	2024	TWAIN RIDGE DR	37.9897835136	-84.5784698403
HLX-4120	H4120	50	SOUTHWIND TER	37.9772557266	-84.5045416069
HLX-4121	H4121	501	BAYBERRY BEND	37.9782878185	-84.5041227575
HLX-4122	H4122	3435	GATEWOOD CT	37.9835834334	-84.5061572862
HLX-4123	H4123	1539	KILKENNY DR	38.0514508301	-84.4516937933
HLX-4124	H4124	1825	HISLE WAY	38.0506208376	-84.4507977472
HLX-4125	H4125	1115	E NEW CIRCLE RD	38.0342699738	-84.4534813814
HLX-4126	H4126	1206	E NEW CIRCLE RD	38.0315685636	-84.4530257236
HLX-4127	H4127	1931	LIBERTY RD	38.0304669615	-84.4557015254
HLX-4128	H4128	450	E NEW CIRCLE RD	38.0557180139	-84.460922047
HLX-4129	H4129	565	E NEW CIRCLE RD	38.0525532894	-84.4573920245
HLX-4130	H4130	122	E NEW CIRCLE RD	38.0645045917	-84.4695574647
HLX-4131	H4131	185	E NEW CIRCLE RD	38.0628740211	-84.4674147842
HLX-4132	H4132	100	W NEW CIRCLE RD	38.0750047602	-84.5006563475
HLX-4133	H4133	228	E NEW CIRCLE RD	38.0615257159	-84.466582036

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4134	H4134	399	E NEW CIRCLE RD	38.057696392	-84.4623451697
HLX-4135	H4135	360	BOILING SPRINGS DR	38.0743939178	-84.5213014824
HLX-4136	H4136	329	LARCH LN	38.0722426159	-84.5210781675
HLX-4137	H4137	630	MAXWELTON CT	38.0369108064	-84.5087368246
HLX-4138	H4138	4696	LEESTOWN RD	38.1198744235	-84.6015300743
HLX-4139	H4139	4020	GEORGETOWN RD	38.1369497052	-84.5335783621
HLX-4140	H4140	509	E MAXWELL ST	38.0360589519	-84.4931409466
HLX-4141	H4141	0	OLD RICHMOND RD	37.9092703107	-84.3589585218
HLX-4143	H4143	740	W NEW CIRCLE RD	38.0731982163	-84.4849169609
HLX-4144	H4144	2532	REGENCY RD	38.0020091106	-84.5243862207
HLX-4145	H4145	2514	REGENCY RD	38.0025211066	-84.5243992831
HLX-4146	H4146	2519	REGENCY RD	38.0030483632	-84.5246488979
HLX-4147	H4147	899	CORPORATE DR	38.0131082224	-84.5543179278
HLX-4148	H4148	861	CORPORATE DR	38.0120302971	-84.5533347173
HLX-4149	H4149	841	CORPORATE DR	38.0111638322	-84.5524862908
HLX-4150	H4150	821	CORPORATE DR	38.0110770201	-84.5506296241
HLX-4151	H4151	777	CORPORATE DR	38.0127608856	-84.5510897762
HLX-4152	H4152	761	CORPORATE DR	38.0138831208	-84.5534657932
HLX-4153	H4153	279	LAKE WALES DR	37.9977728638	-84.4477720919
HLX-4154	H4154	388	ROOKWOOD PKY	38.0615383749	-84.4610560891
HLX-4155	H4155	372	ROOKWOOD PKY	38.0620390933	-84.4618172029
HLX-4156	H4156	352	ROOKWOOD PKY	38.0627664226	-84.4626034075
HLX-4157	H4157	1931	STANTON WAY	38.1013301409	-84.4818010313
HLX-4160	H4160	637	THE CURTILAGE	38.0135153839	-84.4928069611
HLX-4161	H4161	1121	NANDINO BLVD	38.0780257991	-84.5068657758
HLX-4162	H4162	1017	TROTWOOD DR	38.0789446655	-84.5057750558
HLX-4163	H4163	107	PRIMROSE CT	38.0782251468	-84.5034291997
HLX-4164	H4164	1022	BRENTWOOD CT	38.0776994777	-84.499252004
HLX-4165	H4165	4085	HARRODSBURG RD	38.0003778653	-84.5775316219
HLX-4166	H4166	337	SQUIRES RD	37.9915559205	-84.4453478175
HLX-4167	H4167	301	SQUIRES RD	37.9928061127	-84.4439181092
HLX-4168	H4168	3001	BLAKE JAMES DR	38.0091674688	-84.4364495222
HLX-4169	H4169	2750	PALUMBO DR	38.0083651286	-84.4362740803
HLX-4170	H4170	2770	PALUMBO DR	38.0073279963	-84.4360834731

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4171	H4171	2801	PALUMBO DR	38.0063159401	-84.4358447089
HLX-4172	H4172	2845	PALUMBO DR	38.0052564084	-84.4355291901
HLX-4173	H4173	2875	PALUMBO DR	38.0043980184	-84.4345508951
HLX-4174	H4174	301	DARBY CREEK RD	38.0037493421	-84.4332454462
HLX-4175	H4175	361	DARBY CREEK RD	38.0045647024	-84.4327350208
HLX-4176	H4176	409	DARBY CREEK RD	38.0052368482	-84.4321382206
HLX-4177	H4177	3701	BELLEAU WOOD DR	37.97138	-84.5096
HLX-4178	H4178	640	PEBBLE CREEK DR	37.9747057058	-84.5009795389
HLX-4179	H4179	155	MIDLAND AVE	38.0414190828	-84.488591958
HLX-4180	H4180	1030	MILLCREEK CT	37.9787461605	-84.4908127182
HLX-4181	H4181	1706	HAWTHORNE LN	38.0711118253	-84.4712497415
HLX-4182	H4182	1720	HAWTHORNE LN	38.0706375369	-84.4695987908
HLX-4183	H4183	2909	PALUMBO DR	38.0028530996	-84.4317905007
HLX-4184	H4184	305	BAINBRIDGE DR	38.0038141029	-84.4310941797
HLX-4185	H4185	317	BAINBRIDGE DR	38.0047577719	-84.4300790888
HLX-4186	H4186	404	BAINBRIDGE CT	38.0048181823	-84.4290822274
HLX-4187	H4187	408	BAINBRIDGE CT	38.0055986504	-84.4285882915
HLX-4188	H4188	304	LINDENHURST DR	38.0039559195	-84.4283750629
HLX-4189	H4189	390	LINDENHURST DR	38.0043432026	-84.4273433621
HLX-4190	H4190	305	LINDENHURST DR	38.0031298936	-84.4296622319
HLX-4191	H4191	2925	PALUMBO DR	38.0023039766	-84.4309623492
HLX-4192	H4192	4715	RICHMOND RD	37.9681263004	-84.4210605414
HLX-4193	H4193	0	OLD RICHMOND RD	37.9588642272	-84.4156479358
HLX-4194	H4194	3787	PARKERS MILL RD	38.0261109378	-84.5961393031
HLX-4195	H4195	1251	GEORGETOWN RD	38.0782369692	-84.5076772321
HLX-4196	H4196	180	HARRODSBURG RD	38.0288474942	-84.5308804302
HLX-4197	H4197	1103	TRENT BLVD	37.9726009546	-84.4918799266
HLX-4199	H4199	597	CECIL WAY	38.0094833422	-84.5407712893
HLX-4200	H4200	572	CECIL WAY	38.0089357233	-84.5393159252
HLX-4201	H4201	3853	MCGARRY DR	37.9789012591	-84.5578693904
HLX-4202	H4202	105	SPRING RUN RD	37.978270648	-84.5562856111
HLX-4203	H4203	3816	LEE ADAMS LN	37.9777703851	-84.5546807978
HLX-4204	H4204	3836	LEE ADAMS LN	37.9769692147	-84.5552829323
HLX-4205	H4205	916	KRISSY WAY	37.9773400267	-84.556477423

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4206	H4206	3844	LEE ADAMS LN	37.9764203107	-84.5555679955
HLX-4207	H4207	932	BORDALLO DR	37.9770256449	-84.5577290942
HLX-4208	H4208	105	ALBERT LN	37.9775821515	-84.5599499362
HLX-4209	H4209	3876	MCGARRY DR	37.9779760762	-84.5588604998
HLX-4210	H4210	1028	MOYLAN LN	37.9785855775	-84.5602839999
HLX-4211	H4211	3864	LEE ADAMS LN	37.975575344	-84.5560824023
HLX-4212	H4212	3880	LEE ADAMS LN	37.9747534356	-84.5565617685
HLX-4213	H4213	929	GREGORY WAY	37.9755176961	-84.5581880974
HLX-4214	H4214	3989	WEBER WAY	37.976032034	-84.5600749215
HLX-4215	H4215	3961	WEBER WAY	37.9768595774	-84.5595466429
HLX-4216	H4216	3928	WEBER WAY	37.9762055697	-84.5577727255
HLX-4217	H4217	1992	SHADYBROOK LN	38.0014935985	-84.4770397177
HLX-4218	H4218	2308	LAKESIDE DR	38.0007867142	-84.4774954879
HLX-4219	H4219	3537	COLT NECK LN	37.9997116694	-84.4774538527
HLX-4220	H4220	3517	COLT NECK LN	37.9999043589	-84.4791686549
HLX-4221	H4221	2013	IMPALA LN	38.0010921345	-84.4791445639
HLX-4222	H4222	3212	SWEETWATER CT	37.9812672447	-84.4512888453
HLX-4223	H4223	3216	COOL WATER DR	37.9829103847	-84.4503824776
HLX-4224	H4224	3228	COOL WATER DR	37.9824106073	-84.4498143569
HLX-4225	H4225	3208	MIST LAKE CT	37.985783659	-84.4517182859
HLX-4226	H4226	409	NICHOLASVILLE RD	37.9802742938	-84.5287530211
HLX-4227	H4227	104	W TIVERTON WAY	37.9805714599	-84.5297412416
HLX-4228	H4228	148	W TIVERTON WAY	37.98119	-84.53175
HLX-4229	H4229	3993	MALL RD	37.9821530161	-84.5322252666
HLX-4230	H4230	705	CADEN LN	38.0104223039	-84.4291625961
HLX-4231	H4231	580	KINGPOST CT	37.9618156394	-84.3720948216
HLX-4232	H4232	5816	KINGPOST CT	37.9616004393	-84.3716367724
HLX-4233	H4233	0	OLD FRANKFORT PIKE	38.0583846045	-84.5272542584
HLX-4234	H4234	3920	GRASSY CREEK DR	37.9790483935	-84.554101636
HLX-4235	H4235	3813	JOSHUA CIR	37.9792646591	-84.5552111236
HLX-4236	H4236	3854	JOSHUA CIR	37.9792881256	-84.5562956318
HLX-4237	H4237	3892	GRASSY CREEK DR	37.9800709953	-84.5550609091
HLX-4238	H4238	3729	BELLEAU WOOD DR	37.9740633879	-84.5031168977
HLX-4239	H4239	3753	BELLEAU WOOD DR	37.9732027081	-84.5040176223

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HLX-4240	H4240	3772	BELLEAU WOOD DR	37.9729515883	-84.5053934137
HLX-4241	H4241	593	GREENFIELD DR	37.9737077778	-84.5047267021
HLX-4242	H4242	3728	FOREST GREEN DR	37.9736561979	-84.5012960522
HLX-4243	H4243	3720	DICKSONIA DR	37.972531957	-84.5018577283
HLX-4244	H4244	3760	DICKSONIA DR	37.9713690094	-84.5033680379
HLX-4245	H4245	3761	FOREST GREEN DR	37.9717714434	-84.5010087898
HLX-4246	H4246	3797	FOREST GREEN DR	37.9705255384	-84.5018766585
HLX-4247	H4247	2912	NEAL DR	38.0085838637	-84.5385407446
HLX-4248	H4248	569	ASHLEY WAY	38.0093255911	-84.5378803742
HLX-4249	H4249	530	ASHLEY WAY	38.0082298528	-84.5376609373
HLX-4250	H4250	486	ASHLEY WAY	38.0073777136	-84.5387472808
HLX-4251	H4251	2566	RICHMOND RD	38.0111969178	-84.4571450381
HLX-4252	H4252	101	N MT TABOR RD	38.0056761243	-84.4502047019
HLX-4253	H4253	151	N MT TABOR RD	38.0070527534	-84.4485203724
HLX-4254	H4254	0	N MT TABOR RD	38.0074693928	-84.4479444589
HLX-4255	H4255	1065	NEWTOWN PIKE	38.0773515682	-84.4943994899
HLX-4256	H4256	805	NEWTOWN CIR	38.0777023027	-84.4953736365
HLX-4257	H4257	3660	APPIAN WAY	37.9767065592	-84.4885495197
HLX-4258	H4258	1197	APPIAN CROSSING WAY	37.9761798362	-84.4896045488
HLX-4259	H4259	3685	APPIAN WAY	37.9751802302	-84.4905107091
HLX-4260	H4260	3569	BUCKHORN DR	37.9761459184	-84.4645198599
HLX-4261	H4261	1577	DEER LAKE DR	37.9757068796	-84.4632972573
HLX-4262	H4262	3233	CADDO LAKE CT	37.9767595093	-84.4634370441
HLX-4263	H4263	3520	BUCKHORN DR	37.9754840818	-84.4617127764
HLX-4264	H4264	3497	BUCKHORN DR	37.975937891	-84.4601855443
HLX-4266	H4266	1225	RED MILE RD	38.0400644903	-84.516997264
HLX-4267	H4267	1161	RED MILE RD	38.0399952195	-84.5193080839
HLX-4268	H4268	1125	RED MILE RD	38.0396659756	-84.5209079286
HLX-4269	H4269	1051	RED MILE RD	38.0396327451	-84.5222702732
HLX-4270	H4270	979	RED MILE RD	38.0406159794	-84.5235834412
HLX-4271	H4271	925	RED MILE RD	38.0416192639	-84.5241433872
HLX-4272	H4272	901	RED MILE RD	38.042514929	-84.5243290537
HLX-4273	H4273	845	RED MILE RD	38.0440297351	-84.5239962746
HLX-4274	H4274	735	RED MILE RD	38.0399232	-84.52254208

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 116 of 252
HLX-4275	H4275	711	RED MILE RD	38.0471814167	-84.5236802949
HLX-4276	H4276	2365	HARRODSBURG RD	38.0196728184	-84.545642881
HLX-4277	H4277	2201	HIGBEE MILL RD	37.9948756991	-84.5796543131
HLX-4278	H4278	3110	SPURR RD	38.1093222773	-84.5360691559
HLX-4279	H4279	1095	S BROADWAY	38.0366385932	-84.5180867147
HLX-4281	H4281	1121	TANBARK RD	37.9680930105	-84.4945183577
HLX-4282	H4282	1139	TANBARK RD	37.9682861981	-84.4930071641
HLX-4283	H4283	1156	TANBARK RD	37.9684659035	-84.4915598362
HLX-4284	H4284	1169	TANBARK RD	37.9680660958	-84.4906900577
HLX-4285	H4285	1185	TANBARK RD	37.9673701709	-84.4891631472
HLX-4286	H4286	340	LIMA DR	38.0740917802	-84.5143261315
HLX-4287	H4287	3101	CLAYS MILL RD	38.002893746	-84.5449704192
HLX-4288	H4288	20	BIG RUN RD	37.9992108299	-84.5271081429
HLX-4289	H4289	20	GOLD RUSH RD	38.0004231058	-84.5270473584
HLX-4290	H4290	191	W LOUDON AVE	38.0604025668	-84.4849496695
HLX-4291	H4291	3575	NEWTOWN PIKE	38.1394585582	-84.4883824502
HLX-4292	H4292	2878	NEWTOWN PIKE	38.1196732657	-84.4847189426
HLX-4293	H4293	3761	NIAGARA DR	37.9664355213	-84.4813617623
HLX-4294	H4294	556	MERRIMAC DR	37.9878997312	-84.5511036489
HLX-4295	H4295	546	FOGO CT	37.9882788855	-84.5501195229
HLX-4296	H4296	2401	REGENCY RD	38.0050914149	-84.5248877851
HLX-4297	H4297	2417	REGENCY RD	38.0044691867	-84.5249794672
HLX-4298	H4298	2433	REGENCY RD	38.003728673	-84.5250603614
HLX-4299	H4299	2499	WINCHESTER RD	38.0409300158	-84.4170515373
HLX-4300	H4300	708	MASON HEADLEY RD	38.0357398725	-84.5288730001
HLX-4301	H4301	70	MASON HEADLEY RD	38.035284351	-84.527827389
HLX-4302	H4302	3241	VALHALLA DR	37.9820977893	-84.4562225735
HLX-4303	H4303	3293	VALHALLA DR	37.9813611678	-84.4561899655
HLX-4304	H4304	3333	VALHALLA DR	37.980459628	-84.4568952921
HLX-4305	H4305	1324	CENTER PKY	37.98174	-84.4756
HLX-4306	H4306	150	WELLESLEY HEIGHTS WAY	38.0438237524	-84.576350375
HLX-4307	H4307	360	WINDGATE WAY	37.979246518	-84.5027660643
HLX-4308	H4308	1079	TATESBROOK DR	37.9748507894	-84.4912288439
HLX-4309	H4309	1040	TATESBROOK DR	37.9754566067	-84.4925380162

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4310	H4310	108	TATESBROOK DR	37.9759279696	-84.4935045819
HLX-4311	H4311	1024	REILUS CT	37.974238346	-84.4928852403
HLX-4312	H4312	1043	TRENT BLVD	37.9744237768	-84.4939862739
HLX-4313	H4313	122	ZESTA PL	38.0418447431	-84.4755615875
HLX-4314	H4314	124	ZESTA PL	38.0425250749	-84.4757409631
HLX-4315	H4315	204	E REYNOLDS RD	37.9894591763	-84.5184693404
HLX-4316	H4316	3781	NIAGARA DR	37.9665453789	-84.4823447968
HLX-4317	H4317	452	LENNEY DR	37.9754924234	-84.5090457337
HLX-4318	H4318	464	LARKWOOD DR	38.0133521089	-84.4433241988
HLX-4319	H4319	492	LARKWOOD DR	38.0124212073	-84.44414654
HLX-4320	H4320	209	FAIRLEAF PL	38.0114686572	-84.4437061463
HLX-4321	H4321	217	SHADOW WOOD PL	38.0104957928	-84.4431145661
HLX-4322	H4322	312	BENT BOUGH PL	38.0106407362	-84.442178889
HLX-4323	H4323	3456	LYON DR	38.0110809687	-84.5699672871
HLX-4324	H4324	3426	LYON DR	38.0122591975	-84.5692821905
HLX-4325	H4325	3359	RIDGECANE RD	38.014494551	-84.5648720194
HLX-4326	H4326	3450	SNAFFLE RD	38.0104503476	-84.5683390691
HLX-4327	H4327	2121	FORT HARRODS DR	38.0135378946	-84.56868602
HLX-4328	H4328	3301	GONDOLA DR	38.0131718079	-84.5676086166
HLX-4329	H4329	3317	GONDOLA DR	38.0121338602	-84.568066513
HLX-4330	H4330	2081	FORT HARRODS DR	38.0127570205	-84.5665121751
HLX-4331	H4331	3312	PASTERN CT	38.01177413	-84.5669638157
HLX-4332	H4332	2140	FORT HARRODS DR	38.0138336095	-84.5700010673
HLX-4333	H4333	3297	LYON DR	38.0134708932	-84.5713535708
HLX-4334	H4334	2213	FORT HARRODS DR	38.0131492602	-84.5724808873
HLX-4335	H4335	4301	ATHENS BOONESBORO RD	37.9801264701	-84.4191512639
HLX-4336	H4336	4441	ATHENS BOONESBORO RD	37.9779266979	-84.4153959305
HLX-4337	H4337	3837	TROUT CT	37.9655410843	-84.4807531052
HLX-4338	H4338	1333	GRAFTON DR	37.9815326935	-84.4571770828
HLX-4339	H4339	5590	ATHENS WALNUT HILL PIKE	37.9502468413	-84.3868948929
HLX-4340	H4340	3751	APPIAN WAY	37.9741741503	-84.4951661813
HLX-4341	H4341	3943	SPURR RD	38.1154769906	-84.5601507546
HLX-4342	H4342	2254	CAVE HILL LN	38.0117501834	-84.5737734795
HLX-4343	H4343	833	LANE ALLEN RD	38.0296841592	-84.5401540668

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4344	H4344	3224	BRACKTOWN RD	38.095092954	-84.5643831733
HLX-4345	H4345	3812	NIAGARA DR	37.9667077842	-84.4832376359
HLX-4346	H4346	3833	NIAGARA DR	37.9675273593	-84.4845377443
HLX-4347	H4347	386	PATCHEN DR	38.0026443077	-84.4552222554
HLX-4348	H4348	358	PATCHEN DR	38.0036163165	-84.4564960278
HLX-4349	H4349	388	PLAINVIEW RD	38.0039116786	-84.4587474592
HLX-4350	H4350	331	PATCHEN DR	38.0047138926	-84.4576640685
HLX-4351	H4351	304	CHIPPEN DALE CIR	38.0049609102	-84.458360032
HLX-4352	H4352	288	CHIPPEN DALE CIR	38.0053934083	-84.4594150458
HLX-4353	H4353	208	CHIPPEN DALE CIR	38.00539	-84.45942
HLX-4354	H4354	295	PATCHEN DR	38.005685956	-84.4579115113
HLX-4355	H4355	175	N LOCUST HILL DR	38.0059245182	-84.4421499273
HLX-4356	H4356	2949	RIO DOSA DR	38.0069137074	-84.4435257771
HLX-4357	H4357	2909	RIO DOSA DR	38.0080972076	-84.4445341819
HLX-4358	H4358	3069	BONANZA DR	38.0083377827	-84.4425846679
HLX-4359	H4359	2937	CEDARCREST DR	38.0026681887	-84.4567989891
HLX-4360	H4360	2909	CEDARCREST DR	38.0034611767	-84.4580152074
HLX-4361	H4361	477	CHANNING WAY	38.0027771687	-84.4591317693
HLX-4362	H4362	601	ELK LAKE DR	37.9974343896	-84.4511736948
HLX-4363	H4363	3203	BEAVER CREEK DR	37.9971130133	-84.4496909104
HLX-4364	H4364	1261	FENWICK RD	37.978989085	-84.454644476
HLX-4365	H4365	1225	FENWICK RD	37.9796527891	-84.4557740851
HLX-4366	H4366	3320	TAHOE RD	37.9804129775	-84.4547287641
HLX-4367	H4367	5301	JAMES LN	38.010053822	-84.6356502833
HLX-4369	H4369	628	WELLINGTON WAY	38.00175	-84.54635
HLX-4370	H4370	2291	ELKHORN RD	38.04173	-84.42429
HLX-4371	H4371	2271	ELKHORN RD	38.0422963334	-84.4237866786
HLX-4372	H4372	2261	ELKHORN RD	38.042901124	-84.4233250371
HLX-4373	H4373	2340	BUENA VISTA RD	38.0417587314	-84.4228818712
HLX-4374	H4374	2351	BUENA VISTA RD	38.0418871034	-84.4214764066
HLX-4375	H4375	2369	BUENA VISTA RD	38.0427903295	-84.4206777504
HLX-4376	H4376	3501	TRINIDAD CT	38.0263326337	-84.3847273722
HLX-4377	H4377	3508	TRINIDAD CT	38.0257470523	-84.3826716333
HLX-4378	H4378	3454	BUCKHORN DR	37.9761663276	-84.4564798941

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4379	H4379	3380	SMOKY MOUNTAIN DR	37.9773524058	-84.4554757833
HLX-4380	H4380	3344	SMOKY MOUNTAIN DR	37.9780655375	-84.4574801106
HLX-4381	H4381	3320	SMOKY MOUNTAIN DR	37.9791443969	-84.4578484325
HLX-4382	H4382	2505	PARIS PIKE	38.0836046347	-84.4432539999
HLX-4384	H4384	2695	PARIS PIKE	38.086336166	-84.4390961441
HLX-4385	H4385	2795	PARIS PIKE	38.087890436	-84.4367327673
HLX-4386	H4386	120	RUSSELL CAVE RD	38.0681723124	-84.4809952694
HLX-4387	H4387	1314	RUSSELL CAVE RD	38.06884978	-84.4798706469
HLX-4388	H4388	625	MT TABOR RD	37.9952774428	-84.4598899708
HLX-4389	H4389	2044	BUCK LN	38.08474491	-84.53799359
HLX-4390	H4390	180	NEWTOWN PIKE	38.0935483425	-84.4867854109
HLX-4391	H4391	3650	TATES CREEK RD	37.9814512127	-84.4958415617
HLX-4392	H4392	3776	TATES CREEK PIKE	37.9790186865	-84.4976145468
HLX-4393	H4393	2089	BAHAMA RD	38.0233132572	-84.383464932
HLX-4394	H4394	2149	MARQUESAS LN	38.0238158724	-84.3842783268
HLX-4395	H4395	2116	MARQUESAS LN	38.0228375509	-84.385356784
HLX-4396	H4396	3596	ANTILLES DR	38.0218598568	-84.3841321601
HLX-4397	H4397	3628	ANTILLES DR	38.0223647111	-84.3828404681
HLX-4398	H4398	2132	ANTIGUA DR	38.0234805931	-84.3864527681
HLX-4399	H4399	3533	ANTILLES DR	38.0221740139	-84.3874018257
HLX-4400	H4400	3565	ANTILLES DR	38.0218032615	-84.3858480412
HLX-4401	H4401	1520	DEER LAKE DR	37.9749943906	-84.4656122876
HLX-4402	H4402	1360	DEER LAKE CIR	37.9744985028	-84.4667313477
HLX-4403	H4403	1428	DEER LAKE CIR	37.973902289	-84.4667792252
HLX-4404	H4404	1476	DEER LAKE CIR	37.9741721407	-84.4661189276
HLX-4405	H4405	3301	HARTSTON DR	37.9760921634	-84.4589771908
HLX-4406	H4406	2301	THE WOODS LN	37.9978250646	-84.4718314663
HLX-4407	H4407	2109	WOODLEY CIR	37.9969400466	-84.4711535041
HLX-4408	H4408	2312	THE WOODS LN	37.9966655137	-84.4723527901
HLX-4409	H4409	2329	THE WOODS LN	37.9960754343	-84.4734308385
HLX-4410	H4410	2128	WOODMONT DR	37.9952771058	-84.4718531498
HLX-4411	H4411	533	WALLER AVE	38.0329722766	-84.5229918269
HLX-4412	H4412	3355	RICE RD	38.0481545001	-84.6138630691
HLX-4413	H4413	3995	ROSALIE RD	38.0430801173	-84.6238492592

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4414	H4414	174	DONABROOK CT	37.989517306	-84.5160758018
HLX-4415	H4415	3324	FEATHERSTON DR	37.9740564475	-84.4558189936
HLX-4416	H4416	3356	FEATHERSTON DR	37.973023981	-84.4569599061
HLX-4417	H4417	3401	FEATHERSTON DR	37.9717205299	-84.458121232
HLX-4418	H4418	3519	MARRS WAY	37.9716419905	-84.4593776193
HLX-4419	H4419	3424	FEATHERSTON DR	37.9723978487	-84.4593486972
HLX-4420	H4420	3474	BUCKHORN DR	37.9760400003	-84.4580583544
HLX-4421	H4421	3349	ROYAL WOOD RD	37.9750667876	-84.4578455525
HLX-4422	H4422	3337	HARTSTON DR	37.9746236275	-84.4591621746
HLX-4423	H4423	3364	HARTSTON DR	37.97366796	-84.4582906596
HLX-4424	H4424	3377	KENESAW DR	37.9717784088	-84.4637014129
HLX-4425	H4425	1737	PRAIRIE CIR	37.9707583237	-84.462317383
HLX-4426	H4426	1661	PRAIRIE CIR	37.9711171709	-84.4613747781
HLX-4427	H4427	1625	PRAIRIE CIR	37.9715016049	-84.4625452075
HLX-4428	H4428	1920	STANTON WAY	38.100869798	-84.4819484152
HLX-4429	H4429	1927	STANTON WAY	38.1007147843	-84.4812745871
HLX-4431	H4431	5100	ATHENS BOONESBORO RD	37.9683582286	-84.3981804161
HLX-4432	H4432	4701	CLOVER CRK	37.9515296101	-84.4123199957
HLX-4433	H4433	1201	EVANS MILL RD	37.9335379867	-84.3908962559
HLX-4434	H4434	1098	E NEW CIRCLE RD	38.0348072798	-84.4541208283
HLX-4435	H4435	200	FAMILY CIR	38.0335580939	-84.4554284816
HLX-4436	H4436	3090	CLAIR RD	38.0040831912	-84.4881266989
HLX-4437	H4437	1525	MERCER RD	38.0747608916	-84.5108274307
HLX-4438	H4438	3235	GONDOLA DR	38.0155467076	-84.5650260365
HLX-4439	H4439	0	N LOCUST HILL DR	38.0052300233	-84.4430408225
HLX-4440	H4440	3291	GONDOLA DR	38.0138876143	-84.5668113923
HLX-4441	H4441	3378	RIDGECANE RD	38.0134347745	-84.565630502
HLX-4442	H4442	932	LIMA CT	38.0727148225	-84.5078706124
HLX-4443	H4443	112	CISCO RD	38.048172912	-84.5255112914
HLX-4444	H4444	3816	CAMELOT DR	37.9741454059	-84.5071445338
HLX-4445	H4445	1877	PARIS RD	38.0726705014	-84.4595023064
HLX-4446	H4446	1979	PARIS RD	38.0747404532	-84.4564246513
HLX-4447	H4447	2111	PARIS RD	38.0766483037	-84.4536264549
HLX-4448	H4448	425	KINGSTON RD	38.0828156529	-84.447743026

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HLX-4449	H4449	541	KINGSTON RD	38.0850374411	-84.4492011858
HLX-4450	H4450	2281	EXECUTIVE DR	38.0426959517	-84.4286016979
HLX-4451	H4451	2265	EXECUTIVE DR	38.0439864458	-84.4285459548
HLX-4452	H4452	2220	EXECUTIVE DR	38.0452817455	-84.4282310935
HLX-4453	H4453	2192	CALL DR	38.0448022478	-84.4257323262
HLX-4454	H4454	2277	THUNDERSTICK DR	38.0435404245	-84.4257595901
HLX-4455	H4455	2260	BUENA VISTA RD	38.0424114407	-84.4258812175
HLX-4456	H4456	1580	FLORA GLEN WAY	37.9735024408	-84.4637808815
HLX-4457	H4457	1568	FLORA GLEN WAY	37.9739485691	-84.4642320424
HLX-4458	H4458	1545	FLORA GLEN WAY	37.9744068972	-84.46527916
HLX-4459	H4459	3377	ROYAL WOOD RD	37.9749855043	-84.4571491192
HLX-4460	H4460	409	WILLOW LN	38.0568168071	-84.3239134352
HLX-4461	H4461	399	SOUTHLAND DR	38.018079176	-84.526014392
HLX-4462	H4462	370	MAN O WAR BLVD	37.9736028441	-84.4693183089
HLX-4463	H4463	1530	NICHOLASVILLE RD	38.023375492	-84.5121379846
HLX-4464	H4464	1401	HARRODSBURG RD	38.0327777211	-84.5253061297
HLX-4465	H4465	3340	RICHMOND RD	37.9983562307	-84.4423785665
HLX-4466	H4466	10	N EAGLE CREEK DR	37.9995913402	-84.441189975
HLX-4467	H4467	151	N EAGLE CREEK DR	38.0006400588	-84.4398501953
HLX-4468	H4468	625	EUREKA SPRINGS DR	37.9955629204	-84.4566807969
HLX-4469	H4469	533	EL PASEO PL	37.9966580693	-84.455666439
HLX-4471	H4471	2401	MERCHANT ST	38.0772274844	-84.5433049885
HLX-4472	H4472	132	TRADE ST	38.0759007473	-84.5443220934
HLX-4473	H4473	1570	SAMARA GLEN WAY	37.9748329588	-84.464115318
HLX-4474	H4474	1052	TABORLAKE DR	37.9962413281	-84.4686086766
HLX-4475	H4475	1087	TABORLAKE DR	37.9956411716	-84.4679224428
HLX-4476	H4476	1104	TABORLAKE DR	37.9949571409	-84.4687918306
HLX-4477	H4477	2146	TABORLAKE CIR	37.9955017975	-84.4698605949
HLX-4478	H4478	978	FAIRHAVEN DR	37.9604318458	-84.4947432249
HLX-4479	H4479	107	CHINOE RD	38.0002291618	-84.4815289271
HLX-4480	H4480	3309	FOX TRACE RD	37.9758441472	-84.4560787675
HLX-4481	H4481	620	MASON HEADLEY RD	38.033739953	-84.524739184
HLX-4482	H4482	650	MASON HEADLEY RD	38.0343475185	-84.525903132
HLX-4483	H4483	2601	OLD CAVE HILL LN	38.0174771076	-84.584757838

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HLX-4484	H4484	573	ELK LAKE DR	37.9986379006	-84.4510652987
HLX-4485	H4485	121	PROSPEROUS PL	38.0014884715	-84.443265555
HLX-4486	H4486	131	PROSPEROUS PL	38.0020548477	-84.44250484
HLX-4487	H4487	1586	SUMMA MEADOW DR	37.9721310228	-84.4646651983
HLX-4488	H4488	1558	SUMMA MEADOW DR	37.9726785759	-84.4658736929
HLX-4489	H4489	3146	CUSTER DR	37.9883676709	-84.459586713
HLX-4490	H4490	3512	TRAILS END	37.9797185858	-84.5032387317
HLX-4491	H4491	474	GRAYSON LAKE DR	37.9983100219	-84.4496556606
HLX-4492	H4492	447	GRAYSON LAKE DR	37.9994933708	-84.4491439883
HLX-4493	H4493	3321	LYON DR	38.0147643949	-84.57094272
HLX-4494	H4494	3356	LYON DR	38.0154791376	-84.5697706737
HLX-4495	H4495	3384	LYON DR	38.014864058	-84.5684935389
HLX-4496	H4496	2345	THE WOODS LN	37.995867268	-84.474890458
HLX-4497	H4497	2361	THE WOODS LN	37.9951353297	-84.4758605945
HLX-4498	H4498	2105	HUNTERS WOOD LN	37.9953727305	-84.4743672522
HLX-4499	H4499	693	PERIMETER DR	37.9942615489	-84.4625817554
HLX-4500	H4500	661	PERIMETER DR	37.9951604767	-84.4631643803
HLX-4501	H4501	60	PERIMETER DR	37.9961533366	-84.4635142938
HLX-4502	H4502	3118	CUSTER DR	37.9894431171	-84.4588439122
HLX-4503	H4503	3461	ROYAL WOOD RD	37.9759301286	-84.4548661156
HLX-4504	H4504	3429	ROYAL WOOD RD	37.97515252	-84.4548756027
HLX-4505	H4505	134	SWIGERT AVE	38.0877930761	-84.4428909629
HLX-4506	H4506	194	SWIGERT AVE	38.0899639679	-84.4443552707
HLX-4507	H4507	256	SWIGERT AVE	38.0922232519	-84.4466903128
HLX-4508	H4508	201	CARTERBROOK LN	38.094399091	-84.4319900003
HLX-4509	H4509	240	CARTERBROOK LN	38.0954196629	-84.4331855385
HLX-4510	H4510	429	DOVER RD	38.0717456575	-84.4662791062
HLX-4511	H4511	3213	HUNTERS POINT DR	37.9878577787	-84.4490230049
HLX-4512	H4512	3217	FOXCHASE CT	37.9870967293	-84.4494596823
HLX-4513	H4513	3280	HUNTERS POINT DR	37.9868642181	-84.4502391325
HLX-4514	H4514	1150	HORSEMANS LN	38.0426495048	-84.5268474608
HLX-4515	H4515	951	FAIRHAVEN DR	37.9597619809	-84.4959352506
HLX-4516	H4516	944	DARDA CT	37.9607647184	-84.4955183407
HLX-4517	H4517	1599	SUMMERHILL DR	37.9710328692	-84.4640625213

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HLX-4518	H4518	1570	SUMMERHILL DR	37.9716370922	-84.4656457032
HLX-4519	H4519	1523	SUMMERHILL DR	37.9716130524	-84.4666679536
HLX-4520	H4520	4016	FOREST GREEN DR	37.9728759253	-84.5067935908
HLX-4521	H4521	3997	FOREST GREEN DR	37.9721919727	-84.5068244982
HLX-4522	H4522	3793	DICKSONIA DR	37.9719160031	-84.5054813696
HLX-4523	H4523	721	TROY TRL	37.970803159	-84.5045815936
HLX-4524	H4524	749	TROY TRL	37.9698520208	-84.5037831943
HLX-4525	H4525	412	DARBY CREEK RD	38.0061707127	-84.4313662578
HLX-4526	H4526	3512	CREEKWOOD DR	37.996652556	-84.4800493659
HLX-4527	H4527	3532	CREEKWOOD DR	37.9963786337	-84.4782960269
HLX-4528	H4528	20	WAVELAND MUSEUM LN	37.9706190977	-84.5368367331
HLX-4529	H4529	2868	BOWMAN MILL RD	38.0096340321	-84.6017118933
HLX-4530	H4530	2368	THE WOODS LN	37.9941311863	-84.4758016848
HLX-4531	H4531	1050	CHINOE RD	37.9981417529	-84.4805395837
HLX-4532	H4532	3410	SPANGLER DR	37.9796642783	-84.504242838
HLX-4533	H4533	3513	TRAILS END	37.97988543	-84.5038592367
HLX-4534	H4534	3410	SPANGLER DR	37.9802405534	-84.5036386887
HLX-4535	H4535	574	S UPPER ST	38.0421011278	-84.5054404208
HLX-4536	H4536	240	BOLIVAR ST	38.0428185221	-84.5062669975
HLX-4537	H4537	659	PLUNKETT ST	38.0432949816	-84.5067131691
HLX-4538	H4538	612	S BROADWAY	38.0433347905	-84.5075984831
HLX-4539	H4539	619	S BROADWAY	38.0433688549	-84.5081948045
HLX-4540	H4540	640	S BROADWAY	38.0428071878	-84.5084901805
HLX-4541	H4541	426	HAYMAN AVE	38.0431255423	-84.5095458546
HLX-4542	H4542	0	S BROADWAY	38.0423925753	-84.5093132394
HLX-4543	H4543	340	SCOTT ST	38.0419450811	-84.5100248174
HLX-4545	H4545	843	S BROADWAY	38.0409567142	-84.5127411719
HLX-4546	H4546	429	ANGLIANA AVE	38.0419383	-84.51184565
HLX-4547	H4547	539	ANGELINA AVE	38.0429068396	-84.512311832
HLX-4548	H4548	843	S BROADWAY	38.0403445702	-84.5131467837
HLX-4549	H4549	855	S BROADWAY	38.0399763463	-84.5137214737
HLX-4550	H4550	858	S BROADWAY	38.0398049141	-84.513512814
HLX-4552	H4552	807	S BROADWAY	38.0411322173	-84.5124433175
HLX-4553	H4553	2041	CREATIVE DR	38.0294155965	-84.4554888816

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HLX-4554	H4554	2040	CREATIVE DR	38.0284238974	-84.4553758601
HLX-4555	H4555	2050	CREATIVE DR	38.0279910986	-84.4538507848
HLX-4556	H4556	740	SPRING MEADOWS DR	38.0287755967	-84.5338002855
HLX-4557	H4557	776	SPRING MEADOWS DR	38.0292851967	-84.5345011987
HLX-4558	H4558	799	SPRING MEADOWS DR	38.0298479518	-84.535326118
HLX-4559	H4559	851	SPRING MEADOWS DR	38.0298311457	-84.5363579086
HLX-4560	H4560	2105	WOODBIDGE WAY	37.9514871537	-84.4849854053
HLX-4561	H4561	4962	HARTLAND PKY	37.9505129887	-84.4820926909
HLX-4562	H4562	4998	TYNEBRAE RD	37.9512027853	-84.48341206
HLX-4563	H4563	2101	BROADHEAD PL	37.9520689909	-84.4831011944
HLX-4564	H4564	2129	BROADHEAD PL	37.9520893877	-84.4809497994
HLX-4565	H4565	1620	SUMMERHILL DR	37.9699292265	-84.4630454137
HLX-4566	H4566	30	CUTTERS HILL CT	37.9660645055	-84.3733963232
HLX-4567	H4567	331	UNITED CT	37.9662010672	-84.3755326364
HLX-4568	H4568	690	MASON HEADLEY RD	38.0346967313	-84.5273079013
HLX-4569	H4569	687	SHAKER DR	38.0343221847	-84.527366149
HLX-4570	H4570	1656	SUMMERHILL DR	37.9689649012	-84.4613986023
HLX-4571	H4571	737	GATEHOUSE PL	38.0311507373	-84.4589900196
HLX-4572	H4572	349	STONEGATE WAY	38.0048933325	-84.5292478141
HLX-4573	H4573	321	STONEGATE WAY	38.0041234752	-84.5276753033
HLX-4574	H4574	2376	ALEXANDRIA DR	38.0173920086	-84.5490600867
HLX-4575	H4575	2343	ALEXANDRIA DR	38.0188358665	-84.5499275889
HLX-4576	H4576	2333	ALEXANDRIA DR	38.0195192094	-84.5508912063
HLX-4577	H4577	2309	ALEXANDRIA DR	38.0202821551	-84.5516771962
HLX-4578	H4578	210	ROLLINGDALE RD	38.0173418804	-84.5657270799
HLX-4579	H4579	2121	ROLLINGDALE RD	38.0167665875	-84.5675645524
HLX-4580	H4580	2152	ROLLINGDALE RD	38.0169058682	-84.5692473035
HLX-4581	H4581	2101	PALMBROOKE CT	38.0180069587	-84.5667324367
HLX-4582	H4582	2108	RIDGECAVE CT	38.0180266117	-84.5681171834
HLX-4583	H4583	3268	RIDGECAVE RD	38.0188245879	-84.5677556151
HLX-4584	H4584	501	DARBY CREEK RD	38.0074272752	-84.4311931776
HLX-4585	H4585	3445	WINDYKNOLL DR	37.9720427156	-84.4675031973
HLX-4586	H4586	3416	WINDYKNOLL DR	37.9728540238	-84.4680418909
HLX-4587	H4587	1525	CHADWICK DR	37.9733695785	-84.4672102926

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4588	H4588	4120	HEARTWOOD RD	37.9667539499	-84.4918271084
HLX-4589	H4589	4141	HEARTWOOD RD	37.9655726346	-84.4923461613
HLX-4590	H4590	4181	HEARTWOOD RD	37.9654366984	-84.4913306634
HLX-4591	H4591	1098	ROCKBRIDGE RD	37.9577535339	-84.4909536432
HLX-4592	H4592	1071	ROCKBRIDGE RD	37.956767411	-84.4927010416
HLX-4593	H4593	1013	STOWBRIDGE LN	37.9563222315	-84.4945055172
HLX-4594	H4594	4694	IRONBRIDGE DR	37.9572961565	-84.4932286024
HLX-4595	H4595	4662	IRONBRIDGE DR	37.9577397449	-84.4944504783
HLX-4596	H4596	3608	KENWSAW DR	37.9654362359	-84.4670289102
HLX-4597	H4597	3660	KENESAW DR	37.9643743885	-84.468390095
HLX-4598	H4598	370	KENESAW DR	37.9633555327	-84.4702008677
HLX-4599	H4599	2477	WOODFIELD CIR	37.9620544597	-84.4690693893
HLX-4600	H4600	2362	WOODFIELD CIR	37.960424557	-84.4691310155
HLX-4601	H4601	3633	GLEN OAK WAY	37.9596181842	-84.4682108901
HLX-4602	H4602	381	SQUIRES CIR	37.990880542	-84.4449064958
HLX-4603	H4603	2157	BROADHEAD PL	37.9513235062	-84.4791519795
HLX-4604	H4604	4946	HARTLAND PKY	37.9506797165	-84.4806449983
HLX-4605	H4605	2180	BROADHEAD PL	37.9498332728	-84.4801241255
HLX-4606	H4606	772	JAEDUKE DR	37.9691448386	-84.5044171768
HLX-4607	H4607	756	JAEDUKE DR	37.9696338557	-84.5053624434
HLX-4608	H4608	3721	VON SNEIDERN CT	37.9706629743	-84.5068169093
HLX-4609	H4609	3380	SQUIRE OAK DR	37.967602496	-84.4586179303
HLX-4610	H4610	1716	BROOK PARK DR	37.9667396116	-84.4580490793
HLX-4611	H4611	3401	W EDGEBROOK DR	37.9665404986	-84.4572341016
HLX-4612	H4612	3437	W EDGEBROOK DR	37.9649075248	-84.4574488861
HLX-4613	H4613	1732	BROOK PARK DR	37.9662213192	-84.4563577474
HLX-4614	H4614	3424	E EDGEBROOK DR	37.9650794813	-84.456583795
HLX-4615	H4615	3452	E EDGEBROOK DR	37.9638904789	-84.4563748379
HLX-4616	H4616	3297	FEATHERSTON DR	37.9742910663	-84.4542525465
HLX-4617	H4617	0	W LOWRY LN	38.0057948445	-84.5191057393
HLX-4618	H4618	150	W LOWRY LN	38.0061598859	-84.5201245079
HLX-4619	H4619	171	W LOWRY LN	38.0068496402	-84.5212167281
HLX-4620	H4620	181	W LOWRY LN	38.0071851315	-84.5224848636
HLX-4621	H4621	2351	HUGUENARD DR	38.0059760393	-84.5225556832

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4622	H4622	128	HIDDEN WOODS CT	37.9670967894	-84.5307819964
HLX-4623	H4623	209	JON ALLEN LN	37.9671084145	-84.5293276716
HLX-4624	H4624	149	BITTERSWEET WAY	37.9681109115	-84.5289119546
HLX-4625	H4625	4438	NICHOLASVILLE RD	37.9684831776	-84.5316005117
HLX-4627	H4627	2326	ROYSTER RD	38.0589772746	-84.3964724079
HLX-4628	H4628	2996	UTTINGER LN	38.0399698557	-84.3690714562
HLX-4629	H4629	2597	PALUMBO DR	38.0130686476	-84.4390012487
HLX-4630	H4630	3133	MARIA DR	38.0322879334	-84.3476622556
HLX-4631	H4631	2519	EASTPOINT DR	38.0306862413	-84.3288717142
HLX-4632	H4632	2551	EASTPOINT DR	38.0319416115	-84.3293402836
HLX-4633	H4633	2575	EASTPOINT DR	38.0334487605	-84.3299322491
HLX-4634	H4634	5518	WINCHESTER RD	38.0285161595	-84.320784877
HLX-4635	H4635	3073	WINCHESTER RD	38.0365386222	-84.3982200803
HLX-4636	H4636	370	WINCHESTER RD	38.0337444694	-84.3762426801
HLX-4637	H4637	3985	WINCHESTER RD	38.0310324721	-84.3655945745
HLX-4638	H4638	3153	N CLEVELAND RD	38.0338176094	-84.3561805761
HLX-4639	H4639	5615	WINCHESTER RD	38.0284131475	-84.3170278036
HLX-4640	H4640	1801	NICHOLASVILLE RD	38.0179147046	-84.5142121587
HLX-4641	H4641	3501	PROMENADE CT	37.9702807411	-84.4717616699
HLX-4642	H4642	1591	CROSSEN WAY	37.9703735267	-84.4707124026
HLX-4643	H4643	1621	CROSSEN WAY	37.9700850801	-84.4693037167
HLX-4644	H4644	2385	THE WOODS LN	37.9934154709	-84.4762995616
HLX-4645	H4645	450	DOTHAN DR	37.9590755377	-84.4969676556
HLX-4646	H4646	994	JAIRUS DR	37.9585909181	-84.4962914632
HLX-4647	H4647	963	JAIRUS DR	37.9595337596	-84.4945982979
HLX-4648	H4648	130	HUME RD	38.0617982306	-84.4345144909
HLX-4649	H4649	2270	BRYAN STATION RD	38.0679012925	-84.4402812213
HLX-4650	H4650	3097	TODDS RD	38.0096628455	-84.4233634984
HLX-4652	H4652	413	STONEHEDGE PL	38.0018750363	-84.4548544923
HLX-4653	H4653	428	PATCHEN DR	38.0016249624	-84.4536894483
HLX-4654	H4654	416	GROVES POINT WAY	38.0008993957	-84.4540626714
HLX-4655	H4655	2330	FORTUNE DR	38.0399418417	-84.4471590519
HLX-4656	H4656	1721	FORTUNE CT	38.0399672939	-84.4485213713
HLX-4657	H4657	2321	FORTUNE DR	38.0412215889	-84.4469901705

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4658	H4658	961	BEASLEY ST	38.0421287221	-84.4494995028
HLX-4659	H4659	974	BEASLEY ST	38.0417970527	-84.4517894594
HLX-4660	H4660	1313	FENWICK RD	37.9783098932	-84.4537330121
HLX-4661	H4661	2920	SWEET WILLIAM CT	38.0045307715	-84.487794554
HLX-4662	H4662	1508	COLESBURY CIR	38.07379	-84.48247
HLX-4663	H4663	190	ALEXANDRIA DR	38.034835612	-84.550260332
HLX-4664	H4664	1973	PLAUDIT PL	38.01961	-84.41391
HLX-4665	H4665	3435	KENESAW DR	37.9692253636	-84.4649284873
HLX-4666	H4666	3421	FOX DR	37.9702467185	-84.4654493584
HLX-4667	H4667	1490	SUMMERHILL DR	37.9703810949	-84.4664227315
HLX-4668	H4668	1757	GERALD DR	38.0879912899	-84.4753545591
HLX-4669	H4669	2375	LAKE PARK RD	38.0111119247	-84.4613577811
HLX-4670	H4670	2370	LAKE PARK RD	38.0106470142	-84.4607024376
HLX-4671	H4671	2380	LAKE PARK RD	38.0096326342	-84.4609375753
HLX-4672	H4672	4860	TODDS RD	37.9910422146	-84.3707701524
HLX-4673	H4673	1208	N CLEVELAND RD	37.9791719753	-84.3647035715
HLX-4674	H4674	5538	SULPHUR WELL RD	37.9833367354	-84.350445478
HLX-4675	H4675	1117	TABORLAKE DR	37.9942520278	-84.4699748291
HLX-4676	H4676	2188	TABORLAKE CIR	37.9948841419	-84.4704441081
HLX-4677	H4677	1144	TABORLAKE DR	37.9938680302	-84.4714122737
HLX-4678	H4678	1709	GERALD DR	38.0873382568	-84.4742957274
HLX-4679	H4679	3364	SQUIRE OAK DR	37.9682633959	-84.4577628554
HLX-4680	H4680	3341	SQUIRE OAK DR	37.9689621181	-84.4571735597
HLX-4681	H4681	1716	HOUNDSTOOTH GLEN	37.9681835356	-84.4565069343
HLX-4682	H4682	3333	HUNTING HILLS DR	37.9696697503	-84.4568002495
HLX-4683	H4683	3301	SQUIRE OAK DR	37.9708620562	-84.4559453336
HLX-4684	H4684	3301	HUNTING HILLS DR	37.9709689406	-84.4570639571
HLX-4685	H4685	3420	FOX DEN CIR	37.969200287	-84.4601979537
HLX-4686	H4686	3377	FOX DEN CIR	37.9692157826	-84.4586427687
HLX-4687	H4687	3872	FOREST GREEN DR	37.9683972958	-84.5055062942
HLX-4688	H4688	724	LORI LN	37.9694388113	-84.5065793183
HLX-4689	H4689	3889	FOREST GREEN DR	37.968910719	-84.5070668143
HLX-4690	H4690	3924	FOREST GREEN DR	37.969694593	-84.5083641046
HLX-4691	H4691	2204	BROADHEAD PL	37.949654537	-84.4821890819

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4692	H4692	5021	LEAFLAND WAY	37.9488303549	-84.4824423934
HLX-4693	H4693	0	W LOUDON AVE	38.0626066127	-84.4866907338
HLX-4694	H4694	250	W LOUDON AVE	38.0632205997	-84.489538767
HLX-4695	H4695	3990	BRIAR HILL RD	38.0676021317	-84.3743700099
HLX-4696	H4696	3517	COLONNADE DR	37.9694318124	-84.4710521706
HLX-4697	H4697	1038	ROCKBRIDGE RD	37.9553043095	-84.4939829303
HLX-4698	H4698	1016	TURNBRIDGE RD	37.9559688729	-84.4919897547
HLX-4699	H4699	1076	STOWBRIDGE LN	37.9584586393	-84.4923742911
HLX-4700	H4700	1024	ROCKBRIDGE RD	37.9546621661	-84.4945520463
HLX-4701	H4701	4621	SARON DR	37.9536775019	-84.493419922
HLX-4702	H4702	999	CHARWOOD DR	37.9522983759	-84.4927497132
HLX-4703	H4703	932	CHERRYWOOD DR	37.9507289849	-84.4932222343
HLX-4704	H4704	967	CHARWOOD DR	37.951309653	-84.4944821735
HLX-4705	H4705	927	CHARWOOD DR	37.9506446634	-84.4967372072
HLX-4706	H4706	2147	TRADE CENTER DR	38.0362964933	-84.4506532352
HLX-4707	H4707	3281	SQUIRE OAK DR	37.9718107545	-84.4554489569
HLX-4708	H4708	3820	BELLEAU WOOD DR	37.9725156696	-84.5083343174
HLX-4709	H4709	3856	BELLEAU WOOD DR	37.9714066842	-84.509762221
HLX-4710	H4710	1176	TABORLAKE DR	37.993456085	-84.4734415105
HLX-4711	H4711	1213	TABORLAKE CV	37.9943846407	-84.4736357271
HLX-4712	H4712	0	N MT TABOR RD	38.0077542206	-84.4476508822
HLX-4713	H4713	0	N MT TABOR RD	38.0080490494	-84.447179167
HLX-4714	H4714	2868	RIO DOSA DR	38.0087110976	-84.4462873277
HLX-4715	H4715	2416	MERCHANT ST	38.0781564275	-84.5448791657
HLX-4716	H4716	2151	GEORGETOWN RD	38.093452602	-84.5124291933
HLX-4717	H4717	70	JAEDUKE DR	37.9711745708	-84.5081617924
HLX-4718	H4718	3944	FOREST GREEN DR	37.9702543937	-84.5090827353
HLX-4719	H4719	1933	LAKES EDGE DR	38.0065506829	-84.4782176498
HLX-4720	H4720	1901	LAKES EDGE DR	38.0077564807	-84.4783246778
HLX-4721	H4721	118	DENNIS DR	38.0034205646	-84.5223865574
HLX-4722	H4722	0	S LOCUST HILL DR	38.0022147062	-84.4490937446
HLX-4723	H4723	0	S LOCUST HILL DR	38.0012227679	-84.4506825454
HLX-4724	H4724	440	PATCHEN DR	38.0011540471	-84.4524680719
HLX-4725	H4725	1770	BRYANT RD	38.0152414148	-84.4181732205

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4726	H4726	3217	HUNTING HILLS DR	37.9733834417	-84.4547859302
HLX-4727	H4727	842	JAIRUS DR	37.9579786309	-84.4961430058
HLX-4728	H4728	907	JAIRUS DR	37.9594440554	-84.4933290502
HLX-4729	H4729	4724	IRONBRIDGE DR	37.9549743502	-84.4918058947
HLX-4730	H4730	651	RED MILE RD	38.0488352981	-84.5233812888
HLX-4731	H4731	3698	ROYSTER RD	38.0368277797	-84.3654563543
HLX-4732	H4732	3927	ROYSTER RD	38.032774692	-84.3607757247
HLX-4733	H4733	395	BASSETT AVE	38.0361720384	-84.468743856
HLX-4734	H4734	360	OAK WAY	37.9611342936	-84.4677877521
HLX-4735	H4735	2397	WOODFIELD CIR	37.959073728	-84.4675240121
HLX-4736	H4736	3620	TIMBERWOOD LN	37.9585188851	-84.4663901703
HLX-4737	H4737	700	BOB-O-LINK DR	38.0318297179	-84.5275164713
HLX-4738	H4738	701	BOB-O-LINK DR	38.032770557	-84.5272513676
HLX-4739	H4739	70	BOB-O-LINK DR	38.0327716502	-84.5283771705
HLX-4740	H4740	240	OVER DR	38.0752844418	-84.5450975695
HLX-4741	H4741	2416	OVER DR	38.0761524975	-84.5466907649
HLX-4742	H4742	2440	OVER DR	38.077026154	-84.5479541061
HLX-4743	H4743	164	TRADE ST	38.0738309662	-84.5469593189
HLX-4744	H4744	181	TRADE ST	38.0748262748	-84.5480540706
HLX-4745	H4745	3449	FEATHERIDGE DR	37.9680635937	-84.4638666634
HLX-4746	H4746	1632	BRENTMOOR DR	37.9683718017	-84.4626907669
HLX-4747	H4747	1773	EASTWOOD DR	38.0085797287	-84.4789933765
HLX-4748	H4748	1850	DELONG RD	37.9599307063	-84.4512010216
HLX-4749	H4749	2432	PARTERRE PL	38.0474092423	-84.5597711634
HLX-4750	H4750	4879	FAULKIRK LN	37.9534262196	-84.4785969796
HLX-4751	H4751	2240	BONHAVEN RD	37.9522296036	-84.4753814933
HLX-4752	H4752	2233	ABBNEYWOOD RD	37.9537206164	-84.476007611
HLX-4753	H4753	4801	HEMPSTEAD DR	37.9534048287	-84.4737541619
HLX-4754	H4754	155	W TIVERTON WAY	37.9817204694	-84.5334309108
HLX-4756	H4756	3664	ARBOR DR	37.9685125517	-84.4766360337
HLX-4757	H4757	433	WINDFIELD PL	37.9999030769	-84.4551017365
HLX-4758	H4758	3452	WOODSPRING DR	37.9669202364	-84.4627130568
HLX-4759	H4759	107	EDISON DR	38.0200812088	-84.5209929811
HLX-4760	H4760	1696	FARMVIEW DR	37.9656932193	-84.4596858672

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4761	H4761	3420	OAK RIDGE CT	37.965450976	-84.4584861276
HLX-4762	H4762	1732	FARMVIEW DR	37.9644069237	-84.458466503
HLX-4763	H4763	3441	OAKBROOK DR	37.9649319698	-84.4553816075
HLX-4764	H4764	1832	FARMVIEW DR	37.9639556006	-84.4545647074
HLX-4765	H4765	937	WOODGLEN CT	37.9514105824	-84.496489848
HLX-4766	H4766	868	EDGEWOOD DR	37.9499606079	-84.495818175
HLX-4767	H4767	3401	GATEWOOD CT	37.9841489305	-84.5058023089
HLX-4768	H4768	4552	SARON DR	37.9561143456	-84.4964504398
HLX-4769	H4769	1028	WATERMILL LN	37.9555763423	-84.4979192689
HLX-4770	H4770	1017	TURNBERRY LN	37.9563303692	-84.4982264559
HLX-4771	H4771	40	CHELSEA WOODS DR	38.0099129613	-84.4409175573
HLX-4772	H4772	1772	FARMVIEW DR	37.9633132425	-84.4568287108
HLX-4773	H4773	2793	IRON WORKS PIKE	38.1306868569	-84.4832814055
HLX-4774	H4774	4476	NEWTOWN PIKE	38.163503694	-84.4891189573
HLX-4775	H4775	4986	NEWTOWN PIKE	38.1761193406	-84.4884697844
HLX-4776	H4776	1098	S CLEVELAND RD	37.9244651803	-84.3683951577
HLX-4777	H4777	3933	CROSBY DR	37.9658384425	-84.4899388955
HLX-4778	H4778	3976	BOSTON RD	37.9745484818	-84.5551688687
HLX-4779	H4779	3949	BOSTON RD	37.9757733937	-84.5545490455
HLX-4780	H4780	3904	BOSTON RD	37.9774776049	-84.5536556494
HLX-4781	H4781	849	E LOUDON AVE	38.0430519149	-84.4664298102
HLX-4782	H4782	2448	WOODFIELD CIR	37.9612708659	-84.4666378753
HLX-4783	H4783	3613	WINDFAIR LN	37.9607095343	-84.4652305988
HLX-4784	H4784	5143	WHITES LN	37.926378606	-84.4074442026
HLX-4785	H4785	2992	NEAL DR	38.0058387333	-84.5405453334
HLX-4786	H4786	915	FAIRHAVEN DR	37.9589127953	-84.4980748005
HLX-4787	H4787	875	FAIRHAVEN DR	37.9574027158	-84.4981154367
HLX-4788	H4788	3094	RICHMOND RD	38.0032495849	-84.4490518534
HLX-4789	H4789	928	WYNDHAM HILLS DR	37.9742847243	-84.5568623655
HLX-4790	H4790	90	WYNDHAM HILLS DR	37.9735391153	-84.5555451523
HLX-4791	H4791	965	WYNDHAM HILLS DR	37.9748357014	-84.5589741439
HLX-4792	H4792	816	EDGEWOOD DR	37.9491756958	-84.4983338845
HLX-4793	H4793	460	CHARWOOD CT	37.9503584125	-84.4992605227
HLX-4794	H4794	3512	LYON DR	38.0100059148	-84.5707768596

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4795	H4795	2197	SALLEE DR	38.0083170059	-84.5717068342
HLX-4796	H4796	3503	KENESAW DR	37.9671262455	-84.4653428694
HLX-4797	H4797	3579	KENESAW DR	37.9658260268	-84.4667220106
HLX-4798	H4798	2012	TARA LN	37.9958303832	-84.5760714248
HLX-4799	H4799	3897	FORSYTHE DR	37.9949646216	-84.5777129333
HLX-4800	H4800	3944	FORSYTHE DR	37.9971041099	-84.5771287957
HLX-4801	H4801	309	FOX HARBOUR DR	37.9740883722	-84.5221583754
HLX-4802	H4802	332	FOX HARBOUR DR	37.9732159759	-84.5198518782
HLX-4803	H4803	2498	DOGWOOD TRACE BLVD	37.9898416112	-84.5904825381
HLX-4804	H4804	2476	VALE DR	37.9882378324	-84.590194505
HLX-4805	H4805	4853	BUD LN	37.9871404586	-84.5896373788
HLX-4806	H4806	480	AGAPE DR	37.9870718485	-84.5872229607
HLX-4807	H4807	1260	WINCHESTER RD	38.0426170411	-84.4584771157
HLX-4808	H4808	2180	FRANKFORT PIKE	38.0646786719	-84.5499598528
HLX-4809	H4809	108	DAMAR DR	37.9351656589	-84.4013866309
HLX-4810	H4810	3749	CROSBY DR	37.9699149143	-84.4868553151
HLX-4811	H4811	1129	PARKLAWN DR	37.9703428808	-84.4887261734
HLX-4812	H4812	1116	NARROW LN	37.9704304471	-84.4901681725
HLX-4813	H4813	1145	NARROW LN	37.9691089084	-84.4894167255
HLX-4814	H4814	3905	RAPID RUN DR	37.9650541972	-84.4831372842
HLX-4815	H4815	1213	WALKERS WAY	38.0070440395	-84.4896178852
HLX-4816	H4816	60	GALATA DR	38.0072357125	-84.542473595
HLX-4817	H4817	644	GALATA DR	38.0080856952	-84.5445880783
HLX-4818	H4818	676	DARDANELLES DR	38.0086069387	-84.5463996829
HLX-4819	H4819	2945	WACO RD	38.0093418738	-84.5480391217
HLX-4820	H4820	616	DARDANELLES DR	38.0082497414	-84.5431500363
HLX-4821	H4821	3972	PALOMAR BLVD	38.0078814701	-84.579387482
HLX-4822	H4822	4887	FAULKIRK LN	37.9524557644	-84.4793709896
HLX-4823	H4823	2136	ROTHBURY RD	37.9556981972	-84.4786351697
HLX-4824	H4824	2109	ROTHBURY RD	37.9560869518	-84.4813041479
HLX-4825	H4825	4817	CHAFFEY LN	37.95451133	-84.4814534461
HLX-4826	H4826	2471	HARRODS POINTE TRCE	37.9864869157	-84.5902075485
HLX-4827	H4827	2438	HARRODS POINTE TRCE	37.9856894358	-84.5883054081
HLX-4828	H4828	2406	HARRODS POINTE TRCE	37.9847677519	-84.5866398588

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4829	H4829	330	CUTTERS HILL CT	37.967123184	-84.3735154731
HLX-4830	H4830	401	UNITED CT	37.9679372298	-84.3757528674
HLX-4831	H4831	4152	PALOMAR BLVD	38.0003626509	-84.5787178921
HLX-4832	H4832	4033	SANTEE WAY	38.0014849215	-84.5804301907
HLX-4833	H4833	4093	PALMETTO DR	38.0030916321	-84.5816259929
HLX-4834	H4834	4060	PALMETTO DR	38.0037283806	-84.579630876
HLX-4835	H4835	4045	PALOMAR BLVD	38.0053597092	-84.5814869346
HLX-4836	H4836	4140	PALMETTO DR	38.0018489345	-84.5843312461
HLX-4837	H4837	4193	PALMETTO DR	38.0000054261	-84.585765021
HLX-4838	H4838	4328	GUM TREE LN	37.9985163847	-84.5852239999
HLX-4839	H4839	4253	PALMETTO DR	37.9981869098	-84.5867609419
HLX-4840	H4840	453	CHELSEA WOODS DR	38.0113710371	-84.441036638
HLX-4841	H4841	775	NEWTOWN CT	38.0762069421	-84.4924456973
HLX-4842	H4842	992	ROCKBRIDGE RD	37.9536860592	-84.4955139821
HLX-4843	H4843	4564	LONGBRIDGE LN	37.9549569752	-84.4969988649
HLX-4844	H4844	4501	THORNBRIDGE LN	37.9540303962	-84.4985345852
HLX-4845	H4845	316	SANTA FE CT	38.0075124057	-84.4424379856
HLX-4846	H4846	213	BLUE SKY PKY	37.9624811574	-84.3800668047
HLX-4847	H4847	1549	SPRINGFIELD DR	37.9696568027	-84.467325338
HLX-4848	H4848	150	SPRINGFIELD DR	37.9683550708	-84.4682527264
HLX-4849	H4849	3516	WESTMONT CIR	38.0087753677	-84.569891003
HLX-4850	H4850	3720	HIGBEE WOODS CT	37.9870568487	-84.5605132032
HLX-4851	H4851	4813	HEMPSTEAD DR	37.9524847901	-84.4732288244
HLX-4852	H4852	2284	ABBEYWOOD RD	37.9548992934	-84.4724384372
HLX-4853	H4853	842	CHARWOOD DR	37.9517183864	-84.4995683574
HLX-4854	H4854	2148	SALLEE DR	38.007125683	-84.5684767835
HLX-4855	H4855	2033	MCNAIR CT	38.0077578899	-84.5677091335
HLX-4856	H4856	2408	BROOKSHIRE CIR	37.9618978998	-84.4706021694
HLX-4857	H4857	2436	BROOKSHIRE CIR	37.9611256394	-84.4718441675
HLX-4858	H4858	3732	KENESAW DR	37.9623749625	-84.472603774
HLX-4859	H4859	3528	CASTLEGATE WYND	38.0010248003	-84.4824162326
HLX-4860	H4860	3541	CASTLEGATE WYND	38.0020837398	-84.4812130408
HLX-4861	H4861	4601	THORNWOOD CIR	37.9530120868	-84.4961427525
HLX-4862	H4862	956	ROCKBRIDGE RD	37.9527908443	-84.4981950822

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4863	H4863	368	FOX HARBOUR DR	37.972971417	-84.5179650675
HLX-4864	H4864	404	FOX HARBOUR DR	37.9730722501	-84.5161453332
HLX-4865	H4865	436	FOX HARBOUR DR	37.973343116	-84.5144826612
HLX-4866	H4866	1101	SHAGBARK LN	37.9657419316	-84.4951656513
HLX-4867	H4867	1121	SHAGBARK LN	37.9668341602	-84.4940179323
HLX-4868	H4868	1092	TANBARK RD	37.9664259521	-84.4939991135
HLX-4869	H4869	1105	TANBARK RD	37.9672434085	-84.4951886949
HLX-4870	H4870	115	N LOCUST HILL DR	38.0035003675	-84.4472512703
HLX-4871	H4871	109	N LOCUST HILL DR	38.0042773479	-84.4462027028
HLX-4872	H4872	133	N LOCUST HILL DR	38.004780982	-84.4450739229
HLX-4873	H4873	3069	ARROWHEAD DR	38.0079873068	-84.549804128
HLX-4874	H4874	532	MARBLEROCK WAY	37.9848132499	-84.5498911182
HLX-4875	H4875	460	MARBLEROCK WAY	37.9830560865	-84.5461806898
HLX-4876	H4876	320	BLENHEIM WAY	38.0037890317	-84.5572408059
HLX-4877	H4877	3224	BLENHEIM WAY	38.0029610438	-84.5589555739
HLX-4878	H4878	3245	BLENHEIM WAY	38.0024782415	-84.560625251
HLX-4879	H4879	2224	REGENCY RD	38.0080087264	-84.5245642317
HLX-4880	H4880	190	W LOWRY LN	38.007003527	-84.5233723731
HLX-4881	H4881	230	REGENCY RD	38.0067791283	-84.5244273545
HLX-4882	H4882	3040	RICHMOND RD	38.0044417742	-84.4502757496
HLX-4883	H4883	2112	ST MATHILDA DR	38.0229970527	-84.4615000823
HLX-4884	H4884	4048	PEPPERTREE DR	38.0094732151	-84.5793277198
HLX-4885	H4885	4026	PALMETTO DR	38.003499443	-84.5771514288
HLX-4886	H4886	2193	STONE GARDEN LN	38.0040602281	-84.5761676065
HLX-4887	H4887	1299	VERSAILLES RD	38.0498366675	-84.521779378
HLX-4888	H4888	2035	LEESTOWN RD	38.07007997	-84.52999555
HLX-4889	H4889	4025	BOSTON RD	37.9719189285	-84.5563847501
HLX-4890	H4890	3965	HILLSIDE DR	37.9727165665	-84.5580242006
HLX-4891	H4891	3921	HILLSIDE DR	37.9735861568	-84.5595324558
HLX-4892	H4892	3501	GAMAY CT	37.9686708098	-84.46977089
HLX-4893	H4893	163	TODDS RD	38.0107363947	-84.4526854166
HLX-4894	H4894	2250	FRANKFORT PIKE	38.0653825134	-84.5513707836
HLX-4895	H4895	336	BRADFORD COLONY DR	37.9723001985	-84.5231583512
HLX-4896	H4896	3270	BRYAN STATION RD	38.0801983591	-84.4086247506

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 134 of 252
HLX-4897	H4897	2221	ELKHORN RD	38.0451845885	-84.4230067352
HLX-4898	H4898	2389	BUENA VISTA RD	38.0449974477	-84.421265978
HLX-4899	H4899	290	EASTBROOK CT	38.0066534631	-84.4871461159
HLX-4900	H4900	4663	COLLINSWOOD DR	37.9552418284	-84.4887759796
HLX-4901	H4901	1083	FOREST LAKE DR	37.9540238867	-84.4887090605
HLX-4902	H4902	1047	FOREST LAKE DR	37.9521696962	-84.4902909767
HLX-4903	H4903	4697	SARON DR	37.9510309939	-84.4892502344
HLX-4904	H4904	1580	LEESTOWN RD	38.0664599861	-84.5247319472
HLX-4905	H4905	3568	BOSTON RD	37.9831990429	-84.5495375655
HLX-4906	H4906	540	STONE CREEK DR	37.9841966973	-84.5518063308
HLX-4907	H4907	4021	FORSYTHE DR	38.0001782766	-84.576538617
HLX-4908	H4908	3980	FORSYTHE DR	37.99842121	-84.5768069887
HLX-4909	H4909	4125	BERRYMAN CT	37.9978347799	-84.5756748132
HLX-4910	H4910	4601	SPRING CREEK DR	37.9594217207	-84.4889524977
HLX-4911	H4911	4629	SPRING CREEK DR	37.9590077251	-84.4873581668
HLX-4912	H4912	4624	OAK CREEK DR	37.9598621373	-84.4869418166
HLX-4913	H4913	460	HICKORY CREEK DR	37.960853938	-84.4881279862
HLX-4914	H4914	108	W NEW CIRCLE RD	38.0749380908	-84.5018332483
HLX-4915	H4915	4816	MANDARIN PL	37.9841912334	-84.5855059828
HLX-4916	H4916	2354	HARRODS POINTE TRCE	37.9833397701	-84.5839381154
HLX-4917	H4917	3613	CREEL CT	37.9794180649	-84.5081583868
HLX-4918	H4918	470	CONWAY CT	38.0840465845	-84.5401820646
HLX-4919	H4919	411	RETRAC RD	37.9833223487	-84.5421603067
HLX-4920	H4920	374	RETRAC RD	37.9822488725	-84.5400993854
HLX-4921	H4921	3550	WINTHROP DR	37.9817881279	-84.5431493024
HLX-4922	H4922	4801	CHARISMA CT	37.9887978258	-84.5875636441
HLX-4923	H4923	2446	DOGWOOD TRACE BLVD	37.9883538501	-84.5858130575
HLX-4924	H4924	4797	RHEMA WAY	37.9882184008	-84.5840657867
HLX-4925	H4925	3422	LEESTOWN RD	38.0993734125	-84.5682881175
HLX-4926	H4926	394	GREENDALE RD	38.0811478962	-84.5347653204
HLX-4927	H4927	320	E MAIN ST	38.04378414	-84.49422705
HLX-4928	H4928	315	WILSON ST	38.0442766895	-84.4911385129
HLX-4929	H4929	3601	KEYSTONE CT	37.9729889081	-84.474250562
HLX-4930	H4930	3629	KEYSTONE CT	37.9722022515	-84.474545027

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4931	H4931	1501	TRENT BLVD	37.9666398427	-84.4761846671
HLX-4932	H4932	1520	TRENT BLVD	37.9655798796	-84.4755130884
HLX-4933	H4933	2401	CHINQUAPIN LN	38.0400818657	-84.5598108213
HLX-4934	H4934	108	WESTHAMPTON DR	38.079022503	-84.5406746189
HLX-4935	H4935	124	WESTHAMPTON DR	38.0800165899	-84.5395775514
HLX-4936	H4936	2025	MERCER RD	38.0805800171	-84.5389210482
HLX-4937	H4937	201	MERCER RD	38.0793806981	-84.5361535724
HLX-4938	H4938	2048	MERCER RD	38.0797628412	-84.5366023276
HLX-4939	H4939	117	MERCER CT	38.0824495638	-84.5418820876
HLX-4940	H4940	101	MERCER CT	38.0815650489	-84.542567592
HLX-4941	H4941	396	BRADFORD COLONY DR	37.9717852637	-84.5216394834
HLX-4942	H4942	4196	WEBER WAY	37.9778311348	-84.5703270039
HLX-4943	H4943	3992	WESTBROOK DR	37.9768775236	-84.5677042252
HLX-4944	H4944	3909	ROSEBANK CIR	37.9761686566	-84.5659636324
HLX-4945	H4945	4077	WEBER WAY	37.97581538	-84.5640108917
HLX-4946	H4946	4040	WEBER WAY	37.9751055758	-84.5625935244
HLX-4947	H4947	4016	WEBER WAY	37.9745641385	-84.5609668812
HLX-4948	H4948	4850	HARTLAND PKY	37.9566174745	-84.4774955283
HLX-4949	H4949	2201	POPLAR GROVE PL	37.9551115219	-84.4758037239
HLX-4950	H4950	4897	WYNDHURST RD	37.9540992695	-84.4731576491
HLX-4951	H4951	4872	PLEASANT GROVE RD	37.9564703929	-84.4746673245
HLX-4952	H4952	4721	SCENICVIEW RD	37.9878537756	-84.5831871095
HLX-4953	H4953	4753	SCENICVIEW RD	37.9863334665	-84.5844788545
HLX-4954	H4954	397	PREAKNESS DR	38.0674282798	-84.4430144893
HLX-4955	H4955	230	BREEDERS CT	38.0688066107	-84.4426605118
HLX-4956	H4956	365	PREAKNESS DR	38.068938856	-84.4437614376
HLX-4957	H4957	3541	CEPHAS WAY	37.9838943999	-84.5529737293
HLX-4958	H4958	120	QUINTON CT	38.012989979	-84.4552394428
HLX-4959	H4959	4824	WATERSIDE DR	37.9902140227	-84.5956441616
HLX-4960	H4960	480	WATERSIDE DR	37.991114496	-84.594083231
HLX-4961	H4961	2570	OVERLAKE BLVD	37.9917045906	-84.5956555316
HLX-4963	H4963	5498	VERSAILLES RD	38.0411625033	-84.6408219806
HLX-4964	H4964	2250	ELKHORN RD	38.0438269833	-84.4231483088
HLX-4965	H4965	2401	BUENA VISTA RD	38.0455877607	-84.4218679993

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4966	H4966	2140	GARDEN SPRINGS DR	38.0252390284	-84.5480700076
HLX-4967	H4967	3481	COLONNADE DR	37.9712286275	-84.470265912
HLX-4968	H4968	2925	TABOR OAKS LN	38.0058623152	-84.4893244802
HLX-4969	H4969	225	CREEKSIDE CT	38.057703831	-84.5484303758
HLX-4970	H4970	10	CANEBRAKE DR	37.9609317424	-84.3850696465
HLX-4971	H4971	113	CANEBRAKE DR	37.9616634043	-84.3845181824
HLX-4972	H4972	3116	BLENHEIM WAY	38.0077293532	-84.5561111259
HLX-4973	H4973	3168	BLENHEIM WAY	38.0053899938	-84.5562836474
HLX-4974	H4974	1685	JAGGIE FOX WAY	38.0852079216	-84.51727452
HLX-4975	H4975	2285	DANFORTH DR	38.08508864	-84.5157607536
HLX-4976	H4976	1668	JAGGIE FOX WAY	38.0843512972	-84.5176722221
HLX-4977	H4977	1645	JAGGIE FOX WAY	38.0824945493	-84.517161343
HLX-4978	H4978	2316	ABBNEYWOOD RD	37.9569247333	-84.4731315046
HLX-4979	H4979	2232	WOODBURN HALL RD	37.9586730915	-84.4743195849
HLX-4980	H4980	2349	ABBNEYWOOD RD	37.959862903	-84.4740406805
HLX-4981	H4981	413	CROMWELL WAY	37.9830235376	-84.5438325897
HLX-4982	H4982	4648	HICKORY CREEK DR	37.9598719001	-84.4850365581
HLX-4983	H4983	4621	HICKORY CREEK DR	37.9608515539	-84.4868723759
HLX-4984	H4984	3452	PARKERS MILL RD	38.0262362844	-84.5896117373
HLX-4985	H4985	3437	COLONNADE DR	37.9728145624	-84.4699493888
HLX-4986	H4986	3369	COLONNADE DR	37.9715870376	-84.4681904812
HLX-4987	H4987	373	CROMWELL WAY	37.9820815182	-84.5416393637
HLX-4988	H4988	180	ST IVES CIR	38.0036498224	-84.484112542
HLX-4989	H4989	3628	HIDDEN POND RD	38.0038492941	-84.4828395502
HLX-4990	H4990	1587	TRENT BLVD	37.9631806868	-84.4762159204
HLX-4991	H4991	2517	ABBNEYWOOD PL	37.9633287777	-84.4736840987
HLX-4992	H4992	2201	WOODBURN HALL RD	37.9600723082	-84.4765575236
HLX-4993	H4993	4789	PLEASANT GROVE RD	37.9612808658	-84.4759961404
HLX-4994	H4994	240	ABBNEYWOOD RD	37.9616025109	-84.4739488717
HLX-4995	H4995	1575	TRENT BLVD	37.9637303216	-84.4755118837
HLX-4996	H4996	1221	TRUMPETER ROW	38.0060306642	-84.4898432429
HLX-4997	H4997	580	KASP CT	37.9601274971	-84.3727508415
HLX-4998	H4998	5802	KASP CT	37.9591717351	-84.3717887961
HLX-4999	H4999	4733	SPRING CREEK DR	37.9618973403	-84.4826224948

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5000	H5000	4709	SPRING CREEK DR	37.9605895915	-84.483661047
HLX-5001	H5001	2516	SANDERSVILLE RD	38.0876900421	-84.5332233137
HLX-5002	H5002	3801	MT HOREB PIKE	38.1431623824	-84.4767382126
HLX-5003	H5003	108	PROSPEROUS PL	38.0008727131	-84.4443281847
HLX-5004	H5004	177	YORKSHIRE BLVD	37.9987170086	-84.4347055742
HLX-5005	H5005	450	PARKWAY DR	38.0353882456	-84.5232012692
HLX-5006	H5006	2278	FRANKFORT CT	38.067683828	-84.5516351766
HLX-5007	H5007	255	S FORBES RD	38.0556253461	-84.5250271902
HLX-5008	H5008	3807	BLACKBERRY LN	37.9736487136	-84.5545582748
HLX-5009	H5009	856	WYNDHAM HILLS DR	37.9731796829	-84.5529350236
HLX-5010	H5010	4017	HILLSIDE DR	37.9718017234	-84.5549953797
HLX-5011	H5011	4024	HILLSIDE DR	37.9715478532	-84.5541656032
HLX-5012	H5012	833	PALOMINO LN	38.0077035713	-84.5598662294
HLX-5013	H5013	841	QUARTER HORSE CT	38.0083623328	-84.5588361761
HLX-5014	H5014	3748	WILLOW RIDGE RD	37.9783249883	-84.5509278998
HLX-5015	H5015	4716	WATERSIDE CT	37.9918068153	-84.5935234
HLX-5016	H5016	4781	FIREBROOK BLVD	37.9928521953	-84.5948730406
HLX-5017	H5017	4745	FIREBROOK BLVD	37.9943866123	-84.5929204607
HLX-5018	H5018	3517	GERMANN CT	37.9816356326	-84.5405847218
HLX-5019	H5019	317	CROMWELL WAY	37.9810928493	-84.5394388183
HLX-5020	H5020	285	CROMWELL WAY	37.9803726358	-84.5381829088
HLX-5021	H5021	310	RETRAC RD	37.9810077704	-84.5378046552
HLX-5022	H5022	108	WILTON AVE	38.0604665992	-84.5179658634
HLX-5023	H5023	1210	TEXACO RD	38.0601407399	-84.5214964213
HLX-5024	H5024	123	HENTON RD	38.0592970888	-84.5163337934
HLX-5025	H5025	1218	LIGGETT ST	38.0594899478	-84.5227230816
HLX-5026	H5026	4713	BUD LN	37.9904681978	-84.5893970561
HLX-5027	H5027	4713	TRACE CT	37.9900803035	-84.5884778442
HLX-5028	H5028	2421	DOUBLETREE CT	37.9902131419	-84.5866840928
HLX-5029	H5029	4744	AGAPE DR	37.9899899697	-84.5852858453
HLX-5030	H5030	4721	MATTHEW CT	37.989011092	-84.5848051909
HLX-5031	H5031	2555	CAVE HILL LN	38.0144198927	-84.5772855814
HLX-5032	H5032	2929	FOUR PINES DR	38.0066756964	-84.4881653867
HLX-5033	H5033	4344	COBBLESTONE KNOLL DR	37.970719017	-84.5311164563

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HLX-5034	H5034	4377	COBBLESTONE KNOLL DR	37.9694277701	-84.5313155616
HLX-5035	H5035	401	MCCONNELL SPRINGS RD	38.0570625463	-84.5291355723
HLX-5036	H5036	1365	CAHILL DR	38.0568648103	-84.5303350594
HLX-5037	H5037	1332	CAHILL DR	38.0567584663	-84.5284111942
HLX-5038	H5038	130	CAHILL DR	38.0566630674	-84.5266949943
HLX-5039	H5039	1512	EVANOFF CT	37.9717106483	-84.4713356906
HLX-5040	H5040	130	COPPER RUN BLVD	37.9825946658	-84.5682601125
HLX-5041	H5041	1333	COPPER RUN BLVD	37.9829461743	-84.5701959164
HLX-5042	H5042	1348	COPPER RUN BLVD	37.9832543616	-84.5717312549
HLX-5043	H5043	4420	COPPERFIELD DR	37.9838801025	-84.5713556585
HLX-5044	H5044	1328	COPPER CREEK DR	37.9837639361	-84.569673732
HLX-5045	H5045	1356	COPPERFIELD CT	37.9846669873	-84.5713061434
HLX-5046	H5046	1332	COPPERFIELD CT	37.9845703716	-84.569629923
HLX-5047	H5047	838	WYNDHAM HILLS DR	37.9731041625	-84.5518576911
HLX-5048	H5048	4053	HILLSIDE DR	37.9714718814	-84.5531443229
HLX-5049	H5049	100	ANDOVER FOREST DR	38.0059633141	-84.4188048161
HLX-5050	H5050	980	CHETFORD DR	38.006500604	-84.4174626531
HLX-5051	H5051	3220	PENBROKE PL	38.0071361076	-84.4163085201
HLX-5052	H5052	1101	SHEFFIELD PL	38.0081712708	-84.4166115901
HLX-5053	H5053	1056	ANDOVER FOREST DR	38.007024983	-84.4149510318
HLX-5054	H5054	1085	ANDOVER FOREST DR	38.007953885	-84.4141387087
HLX-5055	H5055	1120	SHEFFIELD PL	38.0092012121	-84.4153284805
HLX-5056	H5056	1169	SHEFFIELD PL	38.0102215626	-84.415516047
HLX-5057	H5057	1128	ANDOVER FOREST DR	38.0091668225	-84.4120166229
HLX-5058	H5058	3217	KETTERING CT	38.010424493	-84.412832808
HLX-5059	H5059	813	ANDOVER VILLAGE DR	37.9974559319	-84.4061814013
HLX-5060	H5060	792	ANDOVER VILLAGE DR	37.9966172439	-84.4077346657
HLX-5061	H5061	768	ANDOVER VILLAGE DR	37.9965205405	-84.4095372898
HLX-5062	H5062	836	GLEN ABBEY CIR	37.9972630093	-84.4085499488
HLX-5063	H5063	728	ANDOVER VILLAGE DR	37.9966333737	-84.4122247006
HLX-5064	H5064	701	ANDOVER VILLAGE DR	37.998064322	-84.413036721
HLX-5065	H5065	593	FOREST HILL DR	37.9986322424	-84.415227005
HLX-5066	H5066	3425	CHESTNUT HILL LN	37.9998631183	-84.4160215227
HLX-5067	H5067	4064	PALOMAR BLVD	38.0043676698	-84.582457885

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HLX-5068	H5068	4116	AMBERWOOD CT	38.0034906551	-84.5837033578
HLX-5069	H5069	1950	NICHOLASVILLE RD	38.0121941504	-84.5160797481
HLX-5070	H5070	2601	NICHOLASVILLE RD	37.999427853	-84.5211946403
HLX-5071	H5071	2499	NICHOLASVILLE RD	38.0012038939	-84.5203729585
HLX-5072	H5072	2434	NICHOLASVILLE RD	38.0026050656	-84.5198832617
HLX-5073	H5073	3529	WILLOW SPRING	38.0007722085	-84.4090973974
HLX-5074	H5074	3590	BRIARPATCH WAY	38.0018696721	-84.4088569759
HLX-5075	H5075	1041	AUTUMN RIDGE DR	38.0015571495	-84.4071622592
HLX-5076	H5076	1172	BAY MEADOWS DR	37.9843393704	-84.5605456656
HLX-5077	H5077	360	PALOMAR CENTRE DR	38.004539887	-84.5689788663
HLX-5078	H5078	1345	FRANKFORT PIKE	38.0578122298	-84.5263964095
HLX-5079	H5079	3153	COMANCHE TRL	38.0058284302	-84.5593308388
HLX-5080	H5080	3136	COMANCHE TRL	38.0063416474	-84.557597217
HLX-5081	H5081	3669	WINDING WOOD LN	37.9598572977	-84.4711098559
HLX-5082	H5082	3649	WINDING WOOD LN	37.9590547391	-84.4698080641
HLX-5083	H5083	2313	HICKORY LN	37.95899131	-84.4721936832
HLX-5084	H5084	2324	HICKORY LN	37.9585258057	-84.4709713518
HLX-5085	H5085	3717	WEMBLEY LN	37.9570398351	-84.4718338154
HLX-5086	H5086	228	PINEHURST CT	38.0706502644	-84.455163086
HLX-5087	H5087	481	STONE CREEK DR	37.9827531974	-84.5486065309
HLX-5088	H5088	436	STONE CREEK DR	37.9818767172	-84.5461207497
HLX-5089	H5089	2101	ROTHBURY RD	37.9563589634	-84.4824055148
HLX-5090	H5090	210	SHELTON RD	37.9573169421	-84.4817300563
HLX-5091	H5091	2117	SHELTON RD	37.9571586305	-84.4796447063
HLX-5092	H5092	4831	FAULKIRK LN	37.9573691214	-84.478197303
HLX-5093	H5093	4826	HARTLAND PKY	37.9579509864	-84.4781465212
HLX-5094	H5094	1205	ROCKBRIDGE RD	37.9622767275	-84.4876742507
HLX-5095	H5095	4637	FIELDMOOR DR	37.9613124937	-84.485504707
HLX-5096	H5096	677	ANDOVER VILLAGE PL	37.9989790954	-84.4129807488
HLX-5097	H5097	891	CYPRESS POINT WAY	37.9962161737	-84.4031563048
HLX-5098	H5098	3801	MUIRFIELD PL	37.9961296107	-84.4044375252
HLX-5099	H5099	842	SPYGLASS LN	37.9951298602	-84.4033050111
HLX-5100	H5100	3900	KENESAW DR	37.959931518	-84.4799527664
HLX-5101	H5101	3820	KENESAW DR	37.9611064286	-84.4786486938

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HLX-5102	H5102	3936	KENESAW DR	37.9592307982	-84.4817626921
HLX-5103	H5103	4810	HARTLAND PKY	37.9587595279	-84.479166569
HLX-5104	H5104	4732	CYPRESS CREEK CIR	37.9598665662	-84.4782339848
HLX-5105	H5105	1129	BROCK MCVEY DR	38.0347012072	-84.4501210355
HLX-5106	H5106	2459	NICHOLASVILLE RD	38.0018557307	-84.5201802411
HLX-5107	H5107	181	PROSPEROUS PL	38.0039688441	-84.4403747342
HLX-5108	H5108	3290	BLAZER PKY	38.00244349	-84.4383507238
HLX-5109	H5109	2201	ELKHORN RD	38.045683063	-84.4226211657
HLX-5110	H5110	2537	LARKIN RD	38.0001507612	-84.5178812161
HLX-5111	H5111	2381	BUENA VISTA RD	38.044414331	-84.4209150629
HLX-5112	H5112	3128	CHATHAM DR	38.0057147327	-84.5506930739
HLX-5113	H5113	2201	STOREY CT	37.9645800422	-84.4753278585
HLX-5114	H5114	1611	NORWOOD CIR	37.9620195586	-84.4763197692
HLX-5115	H5115	3899	DYLAN PL	37.9827390392	-84.5546426194
HLX-5116	H5116	872	OVERVIEW DR	37.9817861199	-84.5540758319
HLX-5117	H5117	836	OVERVIEW DR	37.9806492123	-84.5529707954
HLX-5118	H5118	804	OVERVIEW DR	37.9795653208	-84.5521547963
HLX-5119	H5119	4401	LANCASTER CT	37.9642241638	-84.4936246903
HLX-5120	H5120	1017	TANBARK RD	37.9632637942	-84.4928404853
HLX-5121	H5121	4468	HARTLAND PKY	37.9641410858	-84.4904806227
HLX-5122	H5122	1703	KENNING PL	37.9867865849	-84.5714398522
HLX-5123	H5123	1712	KENNING PL	37.9861979455	-84.5724253786
HLX-5124	H5124	430	SOUTHMOOR PK	37.9864858813	-84.5742375905
HLX-5125	H5125	1388	COPPERFIELD CT	37.9848269453	-84.5734643054
HLX-5126	H5126	1420	COPPERFIELD CT	37.9849666866	-84.5754222348
HLX-5127	H5127	1392	COPPER CREEK DR	37.9840678392	-84.5737694362
HLX-5128	H5128	1373	COPPER RUN BLVD	37.9831003634	-84.5731315964
HLX-5129	H5129	1396	COPPER RUN BLVD	37.9832466779	-84.574980075
HLX-5130	H5130	413	MERRIBROOK CT	37.9820649589	-84.5438326652
HLX-5131	H5131	417	STONE CREEK DR	37.9813680969	-84.544970819
HLX-5132	H5132	827	E 7TH ST	38.0439596289	-84.4705924451
HLX-5133	H5133	812	QUARTER HORSE CT	38.0069956696	-84.5585047598
HLX-5134	H5134	820	PALOMINO LN	38.0068411238	-84.5593000697
HLX-5135	H5135	4220	HAMPTON RDG	37.9881032409	-84.5717808832

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HLX-5136	H5136	4240	HAMPTON RIDGE DR	37.9876111021	-84.5722016532
HLX-5137	H5137	1616	HILL RISE DR	38.0469279532	-84.5327415041
HLX-5138	H5138	1684	HILL VIEW PL	38.0452250021	-84.5333269811
HLX-5139	H5139	3130	MAPLELEAF DR	38.0070689793	-84.4262129365
HLX-5140	H5140	3150	MAPLELEAF DR	38.0064457869	-84.4253474708
HLX-5141	H5141	3162	MAPLELEAF DR	38.0056181044	-84.424360208
HLX-5142	H5142	4221	SOUTHMOOR PK	37.9873423753	-84.5758432033
HLX-5143	H5143	4256	SOUTHMOOR PK	37.9880550475	-84.5744473677
HLX-5144	H5144	4308	PENSHURST SQ	37.9863217489	-84.5755583223
HLX-5145	H5145	308	ELM TREE LN	38.0468835797	-84.4884592732
HLX-5146	H5146	320	ELM TREE LN	38.0473821664	-84.4878270955
HLX-5147	H5147	436	BECKY PL	38.0003082603	-84.4545676198
HLX-5148	H5148	1069	AUTUMN RIDGE DR	38.0025444213	-84.4060504647
HLX-5149	H5149	1093	AUTUMN RIDGE DR	38.0031089822	-84.4056745539
HLX-5150	H5150	1104	AUTUMN RIDGE DR	38.0039096329	-84.4053720929
HLX-5151	H5151	1124	AUTUMN RIDGE DR	38.0048269793	-84.4055921478
HLX-5152	H5152	1120	WINTER HAVEN WAY	38.0031137277	-84.4064347397
HLX-5153	H5153	1112	WINTER HAVEN WAY	38.0028800533	-84.4069347636
HLX-5154	H5154	3512	INDIAN SUMMER TRL	38.0035814437	-84.4072943807
HLX-5155	H5155	1144	WINTER HAVEN WAY	38.0040118994	-84.4063511623
HLX-5156	H5156	828	RIDGEBROOK RD	38.0265623385	-84.4401270408
HLX-5157	H5157	833	KINGSBURY RD	38.0267391202	-84.4390177274
HLX-5158	H5158	2218	LIBERTY RD	38.0270646052	-84.4444774254
HLX-5159	H5159	793	RIDGEBROOK CIR	38.0246922384	-84.440464351
HLX-5160	H5160	2398	STONEWOOD LN	38.0250085962	-84.4399629375
HLX-5161	H5161	2383	STONEWOOD LN	38.0253186313	-84.4389202072
HLX-5162	H5162	808	COMANCHE CIR	38.0053586624	-84.5581298443
HLX-5163	H5163	1125	TURKEY FOOT RD	38.0079857433	-84.4903483027
HLX-5164	H5164	151	S LOCUST HILL DR	38.0011225079	-84.4517412064
HLX-5165	H5165	420	TODDS RD	37.99529676	-84.3890037697
HLX-5166	H5166	1213	TODDS STA	37.998248313	-84.3879208803
HLX-5167	H5167	1321	BIG POND CIR	38.0006881667	-84.386332808
HLX-5168	H5168	1225	TODDS STA	37.9992256765	-84.3854148699
HLX-5169	H5169	1241	TODDS STA	37.9985242338	-84.3833564245

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HLX-5170	H5170	1261	TODDS STA	38.0025916658	-84.4139246419
HLX-5171	H5171	703	GINGERMILL LN	37.9979085391	-84.4142587766
HLX-5172	H5172	679	GINGERMILL LN	37.996969929	-84.4156322773
HLX-5173	H5173	651	GINGERMILL LN	37.9964059791	-84.4172380877
HLX-5174	H5174	627	GINGERMILL LN	37.9963103947	-84.4188539584
HLX-5175	H5175	586	GINGERMILL LN	37.997462206	-84.4199467257
HLX-5176	H5176	2412	LA CROSS CT	37.9903088001	-84.5840124034
HLX-5177	H5177	2433	LA CROSS CT	37.9907597863	-84.5856326857
HLX-5178	H5178	2448	LA CROSS CT	37.9911685798	-84.587265009
HLX-5179	H5179	4768	RHEMA WAY	37.9895698206	-84.5825741854
HLX-5180	H5180	2356	HARRODSBURG RD	38.020702734	-84.5437562653
HLX-5181	H5181	1189	SHEFFIELD PL	38.009322113	-84.4166979334
HLX-5182	H5182	320	PENBROKE PL	38.0082270478	-84.4175955597
HLX-5183	H5183	4724	INMAN DR	37.9943211466	-84.594611462
HLX-5184	H5184	3956	PALOMAR BLVD	38.0086989886	-84.5781042691
HLX-5185	H5185	3948	PALOMAR BLVD	38.0086170361	-84.5766497476
HLX-5186	H5186	2414	GREATSTONE PT	38.0195442045	-84.5494399788
HLX-5187	H5187	2225	GULFSTREAM DR	38.0210762966	-84.5499115369
HLX-5188	H5188	2220	NEWMARKET WAY	38.0205267438	-84.5490649618
HLX-5189	H5189	493	SCOTTSDALE CIR	38.0764410827	-84.4770346728
HLX-5190	H5190	3448	TODDS RD	38.0025916658	-84.4139246419
HLX-5191	H5191	4127	TODDS RD	37.9958000912	-84.3950494864
HLX-5192	H5192	2288	SHANNAWOOD DR	38.0048867319	-84.5794199677
HLX-5193	H5193	2264	SHANNAWOOD DR	38.0057983844	-84.5779154756
HLX-5194	H5194	2221	SHANNAWOOD DR	38.0064070387	-84.5789701669
HLX-5195	H5195	2204	SHANNAWOOD DR	38.0057777371	-84.5804424598
HLX-5196	H5196	4513	CLUBHOUSE DR	37.9819740198	-84.5705034259
HLX-5197	H5197	4544	CLUBHOUSE DR	37.9804613741	-84.5709875091
HLX-5198	H5198	1344	CORONA DR	37.9810434448	-84.5696716326
HLX-5199	H5199	1316	CORONA DR	37.9797503714	-84.5702187417
HLX-5200	H5200	3873	BOSTON RD	37.9783287469	-84.553061942
HLX-5201	H5201	4221	CANTERBURY GREEN WAY	37.9880078517	-84.5711776717
HLX-5202	H5202	4236	CANTERBURY GREEN WAY	37.9875260696	-84.5705928568
HLX-5203	H5203	4220	CANTERBURY GREEN WAY	37.9880944186	-84.5708113818

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HLX-5204	H5204	1809	EVANS MILL RD	37.9201172573	-84.3888417298
HLX-5205	H5205	5536	ATHENS BOONESBORO RD	37.9614363554	-84.3866650634
HLX-5206	H5206	5536	ATHENS BOONESBORO RD	37.9616564358	-84.3864735426
HLX-5207	H5207	4798	MOSS CREEK DR	37.9620484799	-84.4779008311
HLX-5208	H5208	4504	HARTLAND PKY	37.9639920121	-84.4886820401
HLX-5209	H5209	4533	HARTLAND PKY	37.9637040377	-84.4873023841
HLX-5210	H5210	4739	HARTLAND PKY	37.9608700601	-84.4805510651
HLX-5211	H5211	3820	KENESAW DR	37.961108071	-84.4784530219
HLX-5212	H5212	3810	KENESAW DR	37.9617431612	-84.4781003613
HLX-5213	H5213	2084	GLADE LN	38.0049569604	-84.5753606014
HLX-5214	H5214	3923	PALOMAR BLVD	38.0060176601	-84.5751860596
HLX-5216	H5216	4660	HARTLAND PKY	37.9631224428	-84.4843538358
HLX-5217	H5217	1316	AMHERST DR	37.9618852186	-84.4839598374
HLX-5218	H5218	4664	HATHWAY DR	37.9627303152	-84.4855355166
HLX-5219	H5219	513	ADDISON AVE	38.0381922268	-84.5240135968
HLX-5220	H5220	1547	NEWTOWN PIKE	38.0876271619	-84.4897414081
HLX-5221	H5221	330	CLAYS MILL RD	37.9982736664	-84.5477097023
HLX-5222	H5222	4016	CLEARWATER WAY	37.9685699516	-84.5130420779
HLX-5223	H5223	410	BRIDGEMONT LN	37.9678419603	-84.5132057707
HLX-5224	H5224	4136	BRIDGEMONT LN	37.9677350076	-84.5147058341
HLX-5225	H5225	4201	RIDGEWATER DR	37.9665170138	-84.5127872025
HLX-5226	H5226	529	RIDGEWATER CT	37.9660394263	-84.5135339531
HLX-5227	H5227	1096	WELLINGTON WAY	38.007110305	-84.5723285348
HLX-5228	H5228	2180	PALOMAR TRACE DR	38.0068275118	-84.5720618547
HLX-5229	H5229	701	ENTERPRISE DR	38.0635238927	-84.5479550107
HLX-5230	H5230	70	ENTERPRISE DR	38.0626165486	-84.5481896874
HLX-5231	H5231	2051	ENTERPRISE CIR	38.0615567849	-84.5475127485
HLX-5232	H5232	720	ENTERPRISE DR	38.0622561743	-84.5487189317
HLX-5233	H5233	751	ENTERPRISE DR	38.0617489589	-84.5504942219
HLX-5234	H5234	110	HORSEMANS LN	38.0424517228	-84.5254031684
HLX-5235	H5235	1063	E NEW CIRCLE RD	38.036281384	-84.4538675824
HLX-5236	H5236	2139	TRADE CENTER DR	38.0363037901	-84.4511487746
HLX-5237	H5237	2150	TRADE CENTER DR	38.0363028774	-84.4494010879
HLX-5238	H5238	1460	CORONA DR	37.9823356755	-84.5747216234

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5239	H5239	1440	CORONA DR	37.982136122	-84.5731723898
HLX-5240	H5240	1428	COPPER GLEN DR	37.9814012724	-84.5731787444
HLX-5241	H5241	1468	COPPER GLEN DR	37.9807626271	-84.5756251462
HLX-5242	H5242	430	STONEHURST PL	37.9867593138	-84.5699593801
HLX-5243	H5243	4209	KENSINGTON GARDEN CT	37.988129046	-84.5698289528
HLX-5244	H5244	101	WESTHAMPTON DR	38.0782833199	-84.5414907761
HLX-5245	H5245	1621	JAGGIE FOX WAY	38.0813189395	-84.5165239371
HLX-5246	H5246	360	COTTAGE CIR	38.0073723088	-84.572923101
HLX-5247	H5247	3660	COTTAGE CIR	38.0077186172	-84.5739154717
HLX-5248	H5248	3712	COTTAGE CIR	38.0081092382	-84.5731666387
HLX-5249	H5249	4093	CLEARWATER WAY	37.9654770695	-84.5114731765
HLX-5250	H5250	4212	WATERTRACE DR	37.9647551871	-84.5118852302
HLX-5251	H5251	4329	WATERSTONE LN	37.9650284605	-84.5129455853
HLX-5252	H5252	4312	WATERTRACE CT	37.9639552295	-84.5111065911
HLX-5253	H5253	4045	PEPPERTREE DR	38.0098406779	-84.5783134607
HLX-5254	H5254	4816	FIREBROOK BLVD	37.9910803607	-84.5969097836
HLX-5255	H5255	112	E VINE ST	38.0449119505	-84.4975707764
HLX-5256	H5256	0	MAN O WAR BLVD	37.9681502372	-84.5011437823
HLX-5257	H5257	4220	SARON DR	37.9673134025	-84.5021226217
HLX-5258	H5258	4246	SARON DR	37.9661119555	-84.5019708316
HLX-5259	H5259	920	CHAS DR	37.9659028224	-84.5010197331
HLX-5260	H5260	393	CHASE PL	38.0017680029	-84.5364837751
HLX-5261	H5261	30	CHASE PL	38.0014087811	-84.5354366306
HLX-5262	H5262	1868	HAVERWOOD PK	37.985497596	-84.5712516174
HLX-5263	H5263	1841	HAVERWOOD PK	37.9855541535	-84.5693892679
HLX-5264	H5264	3324	BRIDLINGTON RD	38.0057043716	-84.4137060576
HLX-5265	H5265	1072	CHETFORD DR	38.0060691408	-84.4128689166
HLX-5266	H5266	1128	HAVERFORD WAY	38.0069155471	-84.4127728724
HLX-5267	H5267	1141	HAVERFORD WAY	38.0070427067	-84.4118618333
HLX-5268	H5268	916	ROYAL AVE	38.0428961986	-84.46882901
HLX-5269	H5269	3620	PHEASANT RUN	38.0006999818	-84.4060543957
HLX-5270	H5270	1013	DEER CROSSING WAY	37.9995773438	-84.4062798719
HLX-5271	H5271	3652	PHEASANT RUN	38.0002683472	-84.404674322
HLX-5272	H5272	377	MARBLEROCK WAY	37.9815357565	-84.5475413517

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5273	H5273	1420	COPPER RUN BLVD	37.9835615096	-84.5763885435
HLX-5274	H5274	2328	HARTLAND PARKSIDE DR	37.963362926	-84.4669661583
HLX-5275	H5275	240	PLEASANT POINTE DR	38.0036526128	-84.4541952223
HLX-5276	H5276	2899	GRIBBIN DR	38.0044491294	-84.4529922901
HLX-5277	H5277	1316	GLENVIEW DR	37.9785954022	-84.5718217835
HLX-5278	H5278	4516	COPPER KNOLL CIR	37.97899773	-84.5727823844
HLX-5279	H5279	4508	GLENVIEW CT	37.9794964367	-84.5739010977
HLX-5280	H5280	1428	GLENVIEW DR	37.9818631558	-84.5765088756
HLX-5281	H5281	4584	HARTLAND PKY	37.9638031413	-84.4858595344
HLX-5282	H5282	1312	HARTLAND WOODS WAY	37.9622457757	-84.4814612309
HLX-5283	H5283	4801	HARTLAND WOODS CT	37.9634680174	-84.4801705504
HLX-5284	H5284	1425	HARTLAND WOODS WAY	37.9640648748	-84.4799442315
HLX-5285	H5285	3717	BROADMOOR DR	37.9957826458	-84.4069324908
HLX-5286	H5286	3729	BROADMOOR DR	37.995489561	-84.4060809769
HLX-5287	H5287	825	BROADMOOR CIR	37.9960011423	-84.4060516639
HLX-5288	H5288	10	VENTURE CT	38.0816611444	-84.5489415387
HLX-5289	H5289	132	VENTURE CT	38.0807404234	-84.5491163868
HLX-5290	H5290	156	VENTURE CT	38.0802376198	-84.5493235994
HLX-5291	H5291	2520	ASHBROOKE DR	37.9874226778	-84.5941348374
HLX-5292	H5292	4913	MEGAN BAY CT	37.9879155563	-84.5960206779
HLX-5293	H5293	1220	FOUR WYND S TRL	37.9629488499	-84.488417656
HLX-5294	H5294	1164	FOUR WYND S TRL	37.961258725	-84.489229778
HLX-5295	H5295	6699	DEDMAN LN	38.021342696	-84.6374031318
HLX-5296	H5296	4202	FT SPRINGS PINCKARD RD	38.0328599685	-84.6328687525
HLX-5297	H5297	2233	MANGROVE DR	38.0016047117	-84.5858691241
HLX-5298	H5298	2261	MANGROVE DR	38.000624976	-84.5869344443
HLX-5299	H5299	1801	HAVERWOOD PK	37.9861016185	-84.5678762355
HLX-5300	H5300	1120	RED MILE PL	38.0460256857	-84.5257079003
HLX-5301	H5301	1116	JONESTOWN LN	37.9784177029	-84.4962244066
HLX-5302	H5302	4184	CLEMENS DR	37.9939877783	-84.5767619903
HLX-5303	H5303	361	W LOUDON AVE	38.0623829826	-84.4932442879
HLX-5304	H5304	360	W LOUDON AVE	38.062373237	-84.4944838444
HLX-5305	H5305	4833	FIREBROOK BLVD	37.9913136875	-84.5981946404
HLX-5306	H5306	2629	IDLEWOOD DR	37.9927794965	-84.5984312019

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5307	H5307	2592	ASHBROOKE DR	37.9881111308	-84.597584069
HLX-5309	H5309	2656	ASHBROOKE DR	37.9892980524	-84.6016727231
HLX-5310	H5310	2688	ASHBROOKE DR	37.9898397895	-84.6035081187
HLX-5311	H5311	4733	FIREBROOK BLVD	37.9947050647	-84.5920087237
HLX-5312	H5312	4712	FIREBROOK BLVD	37.9950089621	-84.5907510976
HLX-5313	H5313	2372	HARTLAND PARKSIDE DR	37.9624047584	-84.4646949523
HLX-5314	H5314	3633	HARTLAND PARKSIDE PL	37.9621580636	-84.4665664449
HLX-5315	H5315	4822	WINCHESTER RD	38.0293062506	-84.3413738564
HLX-5316	H5316	0	RUFFIAN WAY	38.098934458	-84.5534855022
HLX-5317	H5317	3475	SHAMROCK LN	38.1063720437	-84.5489184736
HLX-5318	H5318	549	PLEASANT POINTE CT	38.0040998248	-84.4550711057
HLX-5319	H5319	3760	BROADMOOR DR	37.9943124708	-84.4049501264
HLX-5320	H5320	1409	VERSAILLES RD	38.049540017	-84.527010691
HLX-5321	H5321	628	FOREST HILL DR	37.9982641791	-84.4120159555
HLX-5322	H5322	644	FOREST HILL DR	37.9984413554	-84.4114618764
HLX-5323	H5323	771	ENTERPRISE DR	38.0623253556	-84.5516328805
HLX-5324	H5324	791	ENTERPRISE DR	38.0624218773	-84.5532819215
HLX-5325	H5325	801	ENTERPRISE DR	38.0623261131	-84.5547707901
HLX-5326	H5326	885	RIDGEBROOK RD	38.0286654566	-84.4396471868
HLX-5327	H5327	865	KINGSBURY RD	38.0282577382	-84.4385286244
HLX-5328	H5328	2649	IDLEWOOD DR	37.9937091149	-84.5989608423
HLX-5329	H5329	4237	HEATHMOOR CT	37.9867933953	-84.5689227521
HLX-5330	H5330	170	TWAIN RIDGE DR	37.9850590529	-84.5664604753
HLX-5331	H5331	3797	KINGS GLEN PK	37.9859256458	-84.5671301145
HLX-5332	H5332	1753	ABBINGTON HILL	37.9872783066	-84.5668806165
HLX-5333	H5333	4872	FIREBROOK BLVD	37.992063627	-84.5998334567
HLX-5334	H5334	100	KAVENAUGH LN	38.0026052503	-84.4127632954
HLX-5335	H5335	1037	KAVENAUGH LN	38.0041941058	-84.4113654818
HLX-5336	H5336	4824	PLEASANT GROVE RD	37.9591099996	-84.4769509417
HLX-5337	H5337	4844	PLEASANT GROVE RD	37.9581033099	-84.4756514586
HLX-5338	H5338	1055	DUNCAN AVE	38.0394956846	-84.51851454
HLX-5339	H5339	861	CHILESBURG CT	37.9961470468	-84.4005170842
HLX-5340	H5340	833	CHILESBURG CT	37.9952429476	-84.4015662805
HLX-5341	H5341	3052	WACO RD	38.0060101989	-84.5437104907

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HLX-5342	H5342	3013	TULIP TRCE	38.0058966249	-84.5453881969
HLX-5343	H5343	2993	TULIP TRCE	38.0065319045	-84.5446683805
HLX-5344	H5344	910	BEAUMONT CENTRE PKY	38.0143190505	-84.5559170279
HLX-5345	H5345	3052	BEAUMONT CENTRE CIR	38.0160125014	-84.5563468457
HLX-5346	H5346	3401	BEAUMONT CENTRE CIR	38.0153452111	-84.5574088834
HLX-5347	H5347	3331	BEAUMONT CENTRE CIR	38.0151906829	-84.5583300384
HLX-5348	H5348	3301	BEAUMONT CENTRE CIR	38.0155142128	-84.5599961258
HLX-5349	H5349	0	MAN O WAR BLVD	38.0314063874	-84.5865276485
HLX-5350	H5350	1220	PLEASANT RIDGE DR	38.0053830471	-84.4048691154
HLX-5351	H5351	3596	FOREST SPRING CT	38.0063812075	-84.4049138587
HLX-5352	H5352	350	FOREST SPRING CT	38.0072136061	-84.4056209954
HLX-5353	H5353	3548	FOREST SPRING CT	38.0061458158	-84.4061583155
HLX-5354	H5354	70	RAINWATER DR	37.9649451916	-84.5092235354
HLX-5355	H5355	4101	RAINWATER CIR	37.9655580425	-84.5071264274
HLX-5356	H5356	410	SPRINGWATER DR	37.9650854233	-84.5055597979
HLX-5357	H5357	4125	SPRINGWATER DR	37.9640841025	-84.5060967721
HLX-5358	H5358	2310	HARRODS POINTE TRCE	37.9826360549	-84.5816596106
HLX-5359	H5359	658	MINT HILL LN	37.9955280778	-84.4146448779
HLX-5360	H5360	4762	MOSS CREEK DR	37.9636536852	-84.4784612505
HLX-5361	H5361	1528	GLOVER AVE	38.0513197869	-84.531135921
HLX-5362	H5362	1713	ABBINGTON HILL	37.9869110437	-84.5648906118
HLX-5363	H5363	3724	DUNSWOOD PL	37.9858937064	-84.5658212431
HLX-5364	H5364	1709	HAZELMOOR PL	37.9864150856	-84.5658536085
HLX-5365	H5365	1096	RAMBLEWOOD WAY	38.0025785768	-84.4037062849
HLX-5366	H5366	1073	DEER CROSSING WAY	38.0015430686	-84.4046901494
HLX-5367	H5367	1060	RAMBLEWOOD WAY	38.0011718408	-84.4026933805
HLX-5368	H5368	3301	CHELTENHAM DR	38.0060395949	-84.4163664533
HLX-5369	H5369	1032	CHETFORD DR	38.0047865138	-84.4149740907
HLX-5370	H5370	1980	LANGHORNE DR	37.9906503792	-84.5754582356
HLX-5371	H5371	4265	STEAMBOAT RD	37.9897927032	-84.5746240026
HLX-5372	H5372	2460	ENGLISH STATION DR	37.992375982	-84.5864784046
HLX-5373	H5373	2424	ENGLISH STATION DR	37.9919013542	-84.5845388494
HLX-5374	H5374	1026	FOREST LAKE DR	37.9508198643	-84.4910914529
HLX-5375	H5375	4717	BROOKSIDE WAY	37.9498987952	-84.4898290917

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HLX-5376	H5376	2041	ST STEPHENS GRN	38.0024320842	-84.5696443454
HLX-5377	H5377	4025	PEPPERTREE DR	38.0097782588	-84.576616341
HLX-5378	H5378	3916	PEPPERTREE DR	38.0073488045	-84.5774761859
HLX-5379	H5379	3729	WEeping WILLOW WAY	37.9773465625	-84.5480589826
HLX-5380	H5380	370	WEeping WILLOW WAY	37.9783967824	-84.548575751
HLX-5381	H5381	676	TWIN PINES WAY	37.9772637147	-84.5491434926
HLX-5382	H5382	1680	DONELWAL DR	38.1356617125	-84.5202724361
HLX-5383	H5383	2149	PALOMAR TRACE DR	38.0069146913	-84.5701878531
HLX-5384	H5384	4873	FIREBROOK BLVD	37.9929989379	-84.6003707652
HLX-5385	H5385	4916	WAYNES BLVD	37.9922447545	-84.6017597717
HLX-5386	H5386	2661	FIRESIDE CIR	37.993188775	-84.6020620952
HLX-5387	H5387	1020	EXPORT ST	38.0362219223	-84.5150687652
HLX-5388	H5388	1080	EXPORT ST	38.035767487	-84.5157801357
HLX-5389	H5389	209	SIMPSON AVE	38.0351598562	-84.5162339026
HLX-5390	H5390	633	HONEY LOCUST WAY	38.0072165506	-84.5446051355
HLX-5391	H5391	525	BROOKWATER LN	37.9673277124	-84.5112984497
HLX-5392	H5392	2243	STONEWOOD LN	38.0289998545	-84.4376820512
HLX-5393	H5393	3020	LAKECREST CIR	38.014874006	-84.5550478845
HLX-5394	H5394	2795	RESEARCH PARK DR	38.1381985205	-84.5069450054
HLX-5395	H5395	2712	ASHBROOKE DR	37.9906477377	-84.6032060404
HLX-5396	H5396	2849	ASHBROOKE DR	37.990127105	-84.6013898482
HLX-5397	H5397	4844	WATERSIDE DR	37.988776574	-84.5953817772
HLX-5398	H5398	4864	WATERSIDE DR	37.989380253	-84.593012061
HLX-5399	H5399	1347	THE KINGS CT	37.9632110893	-84.4816828489
HLX-5400	H5400	4057	WHITewater CIR	37.9694326749	-84.5126495267
HLX-5401	H5401	50	WHITewater CIR	37.9704298742	-84.512900312
HLX-5402	H5402	2278	HARRODS POINTE TRCE	37.9819153347	-84.5800566002
HLX-5403	H5403	1901	IRON WORKS PIKE	38.1222977789	-84.4563494138
HLX-5404	H5404	2206	STONEWOOD LN	38.0301469209	-84.4395613573
HLX-5405	H5405	2186	STONEWOOD LN	38.0306353389	-84.4404081766
HLX-5406	H5406	2201	WALSH CT	38.0300617163	-84.4407994864
HLX-5407	H5407	2332	GOLDEN OAK DR	37.9639808434	-84.4661842468
HLX-5408	H5408	1025	VERO CT	38.0032410454	-84.409773518
HLX-5409	H5409	70	RIVERWOOD LN	37.9753905852	-84.5521861718

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HLX-5410	H5410	744	WILLOW OAK CIR	37.9759434249	-84.5529589727
HLX-5411	H5411	785	WELLINGTON WAY	38.0044099186	-84.5591999516
HLX-5412	H5412	3613	BROOKGREEN CIR	37.9976948443	-84.4162849788
HLX-5413	H5413	1617	PARIS RD	38.0657160788	-84.4692730778
HLX-5414	H5414	332	PREAKNESS DR	38.0701011318	-84.4446823617
HLX-5415	H5415	1711	ATOMA DR	38.0864214211	-84.5130374174
HLX-5416	H5416	1723	ATOMA DR	38.0869456642	-84.5129466606
HLX-5417	H5417	3904	LYON DR	38.0029821902	-84.576454912
HLX-5418	H5418	720	MAPLE RIDGE LN	37.9952106979	-84.4077325178
HLX-5419	H5419	3012	WACO RD	38.0068310983	-84.5459025615
HLX-5420	H5420	795	LIBERTY HILL DR	38.0251836359	-84.4426225427
HLX-5421	H5421	756	LIBERTY HILL DR	38.0244289612	-84.4437812616
HLX-5422	H5422	200	MERCER RD	38.0797628412	-84.5366023276
HLX-5423	H5423	301	PELICAN LN	38.0709727283	-84.5203432099
HLX-5424	H5424	2345	FORTUNE DR	38.0391685066	-84.4475674674
HLX-5425	H5425	1229	HARMES WAY	38.007971968	-84.4043588274
HLX-5426	H5426	3765	WHITE PINE DR	37.9787106917	-84.5477048757
HLX-5427	H5427	3856	GRASSY CREEK DR	37.9816953326	-84.5562121074
HLX-5428	H5428	3797	MCGARRY DR	37.9809798351	-84.5558761132
HLX-5429	H5429	3833	MCGARRY DR	37.9798805499	-84.557222227
HLX-5430	H5430	2753	ASHBROOKE DR	37.9913050085	-84.6019169122
HLX-5431	H5431	2805	ASHBROOKE DR	37.9906545605	-84.5997348154
HLX-5432	H5432	3040	LAKECREST CIR	38.0157125368	-84.5530735923
HLX-5433	H5433	300	LAKECREST CIR	38.0167224194	-84.5543279243
HLX-5434	H5434	3764	CAMELOT DR	37.9754379301	-84.5106346459
HLX-5435	H5435	114	BROWN AVE	38.0415608118	-84.4601460391
HLX-5436	H5436	3640	ALLANTE BROOK CT	37.9779598552	-84.506551378
HLX-5437	H5437	3615	ALLANTE BROOK CT	37.9787956813	-84.5074351173
HLX-5438	H5438	1145	ANDOVER FOREST DR	38.0104699114	-84.4114894538
HLX-5439	H5439	3352	BRIGHTON PLACE DR	38.0094231941	-84.4080314655
HLX-5440	H5440	969	DEER CROSSING WAY	37.9994232099	-84.4043586522
HLX-5441	H5441	925	DEER CROSSING WAY	37.9997020074	-84.4020871273
HLX-5442	H5442	4169	WATERTRACE DR	37.966763631	-84.5093389393
HLX-5443	H5443	1898	MERCER RD	38.0776133194	-84.5311025099

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5444	H5444	1141	CHETFORD DR	38.0084445913	-84.4098580647
HLX-5445	H5445	4604	LANDING DR	37.9585376638	-84.48851805
HLX-5446	H5446	4633	RIVERMAN WAY	37.9573824607	-84.4890741772
HLX-5447	H5447	220	FOREST HILL DR	38.0054437117	-84.4203333166
HLX-5448	H5448	3176	STONECASE DR	38.0054339061	-84.421413414
HLX-5449	H5449	5032	WHITES LN	37.9265546725	-84.4118569618
HLX-5450	H5450	306	WALNUT HILL RD	37.927734503	-84.442997336
HLX-5451	H5451	3095	WALNUT HILL RD	37.9345527351	-84.4550130809
HLX-5452	H5452	3180	DELONG RD	37.9335572748	-84.4595073244
HLX-5453	H5453	4590	NICHOLASVILLE RD	37.9641805079	-84.5350815607
HLX-5454	H5454	648	ANDOVER VILLAGE PL	37.9998556757	-84.413641625
HLX-5455	H5455	3072	BLENHEIM WAY	38.0082838928	-84.5569130852
HLX-5456	H5456	3040	BLENHEIM WAY	38.0091262065	-84.558195884
HLX-5457	H5457	3133	COTTONTAIL LN	38.0074025663	-84.5578485072
HLX-5458	H5458	2908	GREEN PINE CT	38.0079196534	-84.5469931908
HLX-5459	H5459	4873	KEATS GROVE LN	37.9897295003	-84.5987641813
HLX-5460	H5460	809	GLEN ABBEY DR	37.9958887209	-84.4100342127
HLX-5461	H5461	740	WINTER HILL LN	37.994718187	-84.4102307829
HLX-5462	H5462	268	FOREST HILL DR	38.0038956955	-84.4211228117
HLX-5463	H5463	324	FOREST HILL DR	38.0022748701	-84.4209151931
HLX-5464	H5464	408	FOREST HILL DR	38.0004838282	-84.4212050292
HLX-5465	H5465	200	BLACKHORSE LN	38.0012896276	-84.5677659601
HLX-5466	H5466	2044	BLACKHORSE LN	38.00287	-84.56877
HLX-5467	H5467	3672	GLADMAN WAY	38.0018004309	-84.5668718184
HLX-5468	H5468	373	PLEASANT POINTE DR	38.0057158922	-84.4539903839
HLX-5469	H5469	328	PLEASANT POINTE DR	38.0048556367	-84.4558238391
HLX-5470	H5470	1951	PLEASANT RIDGE DR	38.0168864993	-84.4141413102
HLX-5471	H5471	1873	TIMBER CREEK DR	38.0157349188	-84.4142620285
HLX-5472	H5472	3093	GLENWOOD DR	38.0147608279	-84.4144420041
HLX-5473	H5473	1293	COLORADO RD	38.0149004924	-84.4117968869
HLX-5474	H5474	3165	GLENWOOD DR	38.0155068114	-84.4106149304
HLX-5475	H5475	1316	RED STONE DR	38.0161061938	-84.4112942751
HLX-5476	H5476	830	CITATION BLVD	38.0868853083	-84.4925019264
HLX-5477	H5477	1501	BULL LEA RD	38.0879769463	-84.4945200744

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5478	H5478	1048	WYNDHAM HILLS DR	37.9762737708	-84.5635450353
HLX-5479	H5479	1012	WYNDHAM HILLS DR	37.9758689291	-84.5614242288
HLX-5480	H5480	891	N YARNALLTON PIKE	38.1220622333	-84.573278762
HLX-5481	H5481	1197	WYNDHAM HILLS DR	37.9819553717	-84.5665522418
HLX-5482	H5482	1449	COPPER RUN BLVD	37.9835292598	-84.578487053
HLX-5483	H5483	3632	IRON LACE DR	38.0050073752	-84.4036430453
HLX-5484	H5484	1125	IRON LACE CT	38.0037277917	-84.4043621664
HLX-5485	H5485	4181	BRIDGEMONT LN	37.9660524248	-84.515566351
HLX-5486	H5486	2139	STONEWOOD LN	38.031501401	-84.4420126279
HLX-5487	H5487	1125	FOLEYS RETREAT	37.9788042711	-84.5660792833
HLX-5488	H5488	3821	GILLESPIES GLEN	37.9776020469	-84.5659535093
HLX-5489	H5489	1105	WYNDHAM HILLS DR	37.9783187132	-84.5643906078
HLX-5490	H5490	1148	WYNDHAM HILLS DR	37.9800554531	-84.5643400218
HLX-5491	H5491	1212	WYNDHAM FOREST CIR	37.9779435301	-84.5680226914
HLX-5492	H5492	3696	WHITE PINE DR	37.9795705549	-84.5466969372
HLX-5493	H5493	360	BEECHWOOD CIR	37.9791551194	-84.5457894717
HLX-5494	H5494	3621	WHITE PINE DR	37.9783480112	-84.5451558405
HLX-5495	H5495	821	WILLOW OAK CIR	37.9742438234	-84.5523043164
HLX-5496	H5496	776	WILLOW OAK CIR	37.9746044309	-84.55360603
HLX-5497	H5497	104	WOOD CT	37.9533765627	-84.4915477171
HLX-5498	H5498	1240	SPRING RUN RD	37.9845431194	-84.5659101934
HLX-5499	H5499	120	SPRING RUN RD	37.9832482243	-84.5643688596
HLX-5500	H5500	1224	SPECULATOR CT	37.9833095571	-84.5659939308
HLX-5501	H5501	2576	SUNGALE CT	37.993463001	-84.5916127759
HLX-5502	H5502	2537	SUNGALE CT	37.9938453159	-84.5900267904
HLX-5503	H5503	4908	FIREBROOK BLVD	37.9939537299	-84.6008682037
HLX-5504	H5504	3570	HUNTERS GREEN WAY	37.9992545017	-84.4180498997
HLX-5505	H5505	3585	HUNTERS GREEN WAY	37.9983554909	-84.4184402851
HLX-5506	H5506	1151	MORNING SIDE DR	38.0083713169	-84.4065242874
HLX-5507	H5507	1239	MORNING SIDE DR	38.0090176223	-84.4050635333
HLX-5508	H5508	4701	FOREST VIEW CT	37.9497678715	-84.493149309
HLX-5509	H5509	1155	HORSEMANS LN	38.0435890561	-84.527305042
HLX-5510	H5510	302	TURFWAY DR	38.0685326327	-84.4447436941
HLX-5511	H5511	3849	BARNARD DR	37.9982426682	-84.4036197134

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5513	H5513	4680	FIREBROOK BLVD	37.9961253965	-84.5892189148
HLX-5515	H5515	1781	HEADLEY GRN	38.0359730247	-84.5332371442
HLX-5516	H5516	1796	CHANDLER LN	38.0344075654	-84.532467677
HLX-5517	H5517	70	WIDENER CT	38.0341689842	-84.5304784467
HLX-5518	H5518	3816	TATES CREEK CT	37.9771997518	-84.4979845719
HLX-5519	H5519	1053	ALBERT LN	37.9786022947	-84.5624393915
HLX-5520	H5520	1072	MOYLAN LN	37.9793873519	-84.5625258023
HLX-5521	H5521	313	SHADOW GLEN CT	38.0141935377	-84.4462578396
HLX-5522	H5522	2619	WOODHILL DR	38.013199268	-84.4452173982
HLX-5523	H5523	1073	WYNDHAM HILLS DR	37.97725076	-84.5645771708
HLX-5524	H5524	828	MEADOWBROOK DR	38.0030059741	-84.5615986789
HLX-5525	H5525	856	MEADOWBROOK DR	38.0032835837	-84.5634208369
HLX-5526	H5526	821	WELLINGTON WAY	38.003882652	-84.5615681568
HLX-5527	H5527	669	WINTER HILL LN	37.995285894	-84.4118827506
HLX-5528	H5528	629	WINTER HILL LN	37.9942704002	-84.413659232
HLX-5529	H5529	713	SOUTHPOINT DR	37.9595409082	-84.5068623892
HLX-5530	H5530	745	PINNACLE CT	37.9609468602	-84.5083501646
HLX-5531	H5531	756	EMMETT CREEK LN	37.9604136391	-84.5093652752
HLX-5532	H5532	3721	RICHMOND RD	37.990704619	-84.4333905269
HLX-5533	H5533	3624	GREEN PARK CT	37.9922021935	-84.4347527852
HLX-5534	H5534	3648	FAIR RIDGE DR	37.9924681082	-84.4335407638
HLX-5535	H5535	3616	PARK POINTE DR	37.9937046407	-84.4337542817
HLX-5536	H5536	3791	N CLEVELAND RD	38.0552191168	-84.3533228681
HLX-5537	H5537	629	REPUBLIC CT	38.0235557227	-84.444901768
HLX-5538	H5538	628	DECLARATION CT	38.0230354064	-84.4439221354
HLX-5539	H5539	3113	HELMSDALE PL	38.0124413856	-84.4192114519
HLX-5540	H5540	3207	BRIGHTON PLACE DR	38.0112335677	-84.4177762019
HLX-5541	H5541	3176	BRIGHTON PLACE DR	38.0098288019	-84.4188702026
HLX-5542	H5542	3225	BRIGHTON PLACE DR	38.012142732	-84.4159665961
HLX-5543	H5543	3257	BRIGHTON PLACE DR	38.0118333567	-84.4138978506
HLX-5544	H5544	3277	BRIGHTON PLACE DR	38.011653236	-84.412282209
HLX-5545	H5545	845	GERARDI RD	38.023993461	-84.4370003646
HLX-5546	H5546	897	GERARDI RD	38.025023318	-84.4354985243
HLX-5547	H5547	1072	CRIMSON CREEK DR	38.0029739041	-84.4026113715

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5548	H5548	1021	CRIMSON CREEK DR	38.0006914073	-84.4014361595
HLX-5549	H5549	3052	MAPLELEAF PK	38.0083093765	-84.4270556201
HLX-5550	H5550	3885	ARIA LN	37.9800718287	-84.5675168878
HLX-5551	H5551	3833	ARIA LN	37.9810615189	-84.5680965733
HLX-5552	H5552	2102	CAPSTONE DR	38.0902224124	-84.5125444795
HLX-5553	H5553	4524	LANGLEY CIR	37.961242234	-84.4904577669
HLX-5554	H5554	1124	FOUR WYND S TRL	37.9596891848	-84.49011495
HLX-5555	H5555	976	TANBARK RD	37.9610918265	-84.4914809633
HLX-5556	H5556	3101	BEAUMONT CENTRE CIR	38.0188952722	-84.5544484755
HLX-5557	H5557	1720	HEADLEY GRN	38.0368722152	-84.5320116832
HLX-5558	H5558	1815	TIMBER CREEK DR	38.0132339452	-84.4142526474
HLX-5559	H5559	1775	TIMBER CREEK DR	38.0130989876	-84.4122474657
HLX-5560	H5560	2040	MOUNTJOY PL	38.0034014343	-84.5668132752
HLX-5561	H5561	1924	WESTMEATH PL	38.0019986554	-84.5643429872
HLX-5562	H5562	3649	GLADMAN WAY	38.0024401269	-84.5659862852
HLX-5563	H5563	521	DEATON PL	37.9982278519	-84.4547365192
HLX-5564	H5564	425	ELM TREE LN	38.0487170862	-84.4862988806
HLX-5565	H5565	809	STATESMAN WAY	38.0407213861	-84.4659750058
HLX-5566	H5566	1576	LINDY LN	38.0395248209	-84.4654961328
HLX-5567	H5567	630	MINT HILL LN	37.9949102638	-84.4163200499
HLX-5568	H5568	692	FOREST HILL DR	37.9996480022	-84.4102515502
HLX-5570	H5570	652	GRAVISS CT	37.9892513558	-84.5610281625
HLX-5571	H5571	630	WAXWING WAY	37.9766361613	-84.499396004
HLX-5572	H5572	3870	SUGAR CREEK DR	37.9759079944	-84.4999969616
HLX-5573	H5573	689	SOUTHPOINT DR	37.9583257802	-84.5061722171
HLX-5574	H5574	745	ROSE HURST WAY	37.9591414081	-84.5095580483
HLX-5575	H5575	3801	SCARLETT OAK LN	37.9772658036	-84.5459436306
HLX-5576	H5576	3844	SCARLETT OAK LN	37.9760295903	-84.5465603115
HLX-5577	H5577	3474	RICHMOND RD	37.9952507659	-84.4395285454
HLX-5578	H5578	3556	BROOKEWIND WAY	37.9926640797	-84.4392206227
HLX-5579	H5579	1265	COLORADO RD	38.0135980804	-84.4114392407
HLX-5580	H5580	1237	RED STONE DR	38.0136548915	-84.4103533131
HLX-5581	H5581	2805	MASTERSON STATION DR	38.0878724236	-84.5551830998
HLX-5582	H5582	2901	SUMMERFIELD DR	38.0893586351	-84.5532596109

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5583	H5583	2941	SUMMERFIELD DR	38.0894016374	-84.5549516614
HLX-5584	H5584	2161	SANTA ANITA DR	38.0687776204	-84.445859867
HLX-5585	H5585	2141	BELMONT DR	38.069747119	-84.4466924481
HLX-5586	H5586	2097	BELMONT DR	38.07058	-84.44846
HLX-5587	H5587	2529	CASHEL CT	38.0131520481	-84.4470983204
HLX-5588	H5588	260	CASHEL CT	38.0119324052	-84.445431474
HLX-5589	H5589	3201	MANTILLA DR	38.014039189	-84.5587637001
HLX-5590	H5590	3248	MANTILLA DR	38.0139535134	-84.5618024438
HLX-5591	H5591	644	IRON WORKS PIKE	38.1117204066	-84.4263651911
HLX-5592	H5592	5900	WINCHESTER RD	38.0292368591	-84.3065128148
HLX-5593	H5593	3720	COMBS FERRY RD	38.0262948003	-84.3146301408
HLX-5594	H5594	3512	ROBINHILL WAY	38.0104789922	-84.5719756407
HLX-5595	H5595	3577	ROBINHILL WAY	38.0089496987	-84.5734270172
HLX-5596	H5596	3829	LANDRIDGE DR	37.9803881242	-84.5664520527
HLX-5597	H5597	4201	EVERGREEN DR	38.00136013	-84.5834151783
HLX-5598	H5598	4240	EVERGREEN DR	37.9996887233	-84.584688824
HLX-5599	H5599	2157	MANGROVE DR	38.0010027721	-84.5817923178
HLX-5600	H5600	4224	NUTMEG DR	38.0002087366	-84.583211346
HLX-5601	H5601	2117	MANGROVE DR	37.999678534	-84.5826254819
HLX-5602	H5602	2097	MANGROVE DR	37.9987448734	-84.5833937076
HLX-5603	H5603	2609	WALNUT GROVE LN	38.0235828988	-84.370526276
HLX-5604	H5604	120	KENNECOTT WAY	37.9839987787	-84.563863594
HLX-5605	H5605	1249	KENNECOTT WAY	37.9854594782	-84.5641961692
HLX-5606	H5606	164	MASTERTON STATION DR	38.0904595978	-84.5523122728
HLX-5607	H5607	20	MASTERTON STATION DR	38.0917577067	-84.5511865535
HLX-5608	H5608	233	GATEWAY PARK CIR	38.0917288458	-84.5491316438
HLX-5609	H5609	3550	SHAMROCK LN	38.106604768	-84.5524684683
HLX-5610	H5610	3589	SPURR RD	38.1115489015	-84.5524437277
HLX-5611	H5611	360	HALEY RD	38.0365183975	-84.3322576685
HLX-5612	H5612	430	HALEY RD	38.0511035258	-84.3225699229
HLX-5613	H5613	4449	HALEY RD	38.0540063686	-84.3235081683
HLX-5614	H5614	3889	BARNARD DR	37.9984359739	-84.4017260791
HLX-5615	H5615	3941	BARNARD DR	37.9983941075	-84.3997521373
HLX-5616	H5616	3988	BARNARD DR	37.9973613774	-84.4006930641

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5617	H5617	4201	CLEARWATER WAY	37.9614536063	-84.5068595882
HLX-5618	H5618	4385	JOSIAH WAY	37.9621406336	-84.5060311637
HLX-5619	H5619	4178	CLEARWATER WAY	37.9628650672	-84.5073591126
HLX-5620	H5620	717	SORRENTO LN	37.9626867675	-84.5094199179
HLX-5621	H5621	3151	BEAUMONT CENTRE CIR	38.0205601536	-84.5561310416
HLX-5622	H5622	3191	BEAUMONT CENTRE CIR	38.020228734	-84.5588077903
HLX-5623	H5623	3216	BEAUMONT CENTRE CIR	38.0188493524	-84.560624606
HLX-5624	H5624	300	FIELD WAY	38.0216070267	-84.5621665615
HLX-5625	H5625	965	RIDGEBROOK RD	38.0268075898	-84.4378397477
HLX-5626	H5626	2303	STONEWOOD LN	38.0273645955	-84.4359416875
HLX-5627	H5627	1033	SUMMER WIND LN	37.9475747007	-84.4858462133
HLX-5628	H5628	60	HUNTERS GREEN CT	38.0006092761	-84.4174478012
HLX-5629	H5629	528	HUNTERSKNOLL PL	38.00052577	-84.4193815219
HLX-5630	H5630	1209	ASPEN ST	38.0142041355	-84.4093317984
HLX-5631	H5631	1865	ALYSHEBA WAY	38.0197515725	-84.4193784128
HLX-5632	H5632	1824	ALYSHEBA WAY	38.0182798625	-84.4201647648
HLX-5633	H5633	4501	CALLAWAY CT	37.9635700917	-84.5250556138
HLX-5634	H5634	428	AMBERLEY DR	37.9623200827	-84.523727663
HLX-5635	H5635	40	WHITFIELD DR	37.9627776703	-84.5227230366
HLX-5636	H5636	240	FORTUNE DR	38.0360891898	-84.4480661716
HLX-5637	H5637	1895	VENDOR WAY	38.0200988224	-84.4229472479
HLX-5638	H5638	597	WINTER HILL LN	37.9933932464	-84.4153714586
HLX-5639	H5639	2433	FORTUNE DR	38.0343078228	-84.4475137796
HLX-5640	H5640	1190	BROCK MCVEY DR	38.0326960786	-84.4489647231
HLX-5642	H5642	2952	TRAILSIDE DR	38.0916274901	-84.5529992423
HLX-5643	H5643	241	MASTERSON STATION DR	38.0926319099	-84.5489820339
HLX-5644	H5644	2832	GATEWAY PARK LN	38.0907523996	-84.5488172694
HLX-5645	H5645	3330	TODDS RD	38.0043269867	-84.417263502
HLX-5646	H5646	2444	CHIMNEY POINT LN	38.0202461495	-84.438154274
HLX-5647	H5647	261	SIMPSON AVE	38.035844411	-84.5169280892
HLX-5648	H5648	4244	RIDGEWATER DR	37.9649014285	-84.5148233805
HLX-5649	H5649	60	ROLLING CREEK LN	37.9639175446	-84.5165605579
HLX-5650	H5650	649	MORGAN HILLS DR	38.0223335221	-84.4441168686
HLX-5651	H5651	693	MORGAN HILLS DR	38.0230955674	-84.4427482116

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5652	H5652	3233	WELLINGTON LN	38.0051830728	-84.5615304788
HLX-5653	H5653	3856	LANDRIDGE DR	37.9791553651	-84.5673142782
HLX-5654	H5654	170	GEORGETOWN ST	38.054436439	-84.5025855344
HLX-5655	H5655	4781	HALEY RD	38.0590610253	-84.3246128985
HLX-5656	H5656	869	MARBLEHEAD DR	38.0237039868	-84.4354049441
HLX-5657	H5657	848	REVERE RUN DR	38.0227300089	-84.4357015453
HLX-5658	H5658	893	REVERE RUN DR	38.0233888554	-84.4342287889
HLX-5659	H5659	3621	BOXLEA WAY	37.9655249866	-84.4687868332
HLX-5660	H5660	171	S CLEVELAND RD	37.9485762771	-84.3649540837
HLX-5661	H5661	0	S CLEVELAND RD	37.9435467055	-84.3644847877
HLX-5662	H5662	455	S CLEVELAND RD	37.9380392375	-84.3642980917
HLX-5663	H5663	189	ELLEMOOR LN	37.9922687457	-84.4403353161
HLX-5664	H5664	237	CATERA TRCE	38.0122286546	-84.4479078543
HLX-5665	H5665	741	HEARTSBROOK LN	38.0468718816	-84.5315633079
HLX-5666	H5666	1237	SHERBORNE PL	38.0117766985	-84.4103592807
HLX-5667	H5667	2999	ELAM VILLAGE DR	38.0320406774	-84.371275532
HLX-5668	H5668	220	MASTERSON STATION DR	38.0925125485	-84.5500259068
HLX-5669	H5669	2952	MASTERS VIEW RD	38.0937682088	-84.5510806044
HLX-5670	H5670	221	WOODBROOK PL	38.0937139088	-84.5499521704
HLX-5671	H5671	1193	COLORADO RD	38.0125138773	-84.4087272457
HLX-5672	H5672	1169	RED STONE DR	38.0132006354	-84.4083582582
HLX-5673	H5673	3033	FIELD WAY	38.0203517447	-84.5634286998
HLX-5674	H5674	3073	FIELD WAY	38.0182539102	-84.5639848235
HLX-5675	H5675	1057	CHASEWOOD WAY	38.0188840651	-84.5620523164
HLX-5676	H5676	1024	CHASEWOOD WAY	38.0197108894	-84.5618062912
HLX-5677	H5677	727	WHITNEY WOODS PL	38.0467525488	-84.5370215632
HLX-5678	H5678	3908	MCGARRY DR	37.9769302392	-84.5608103075
HLX-5679	H5679	1040	RIDGETREE LN	37.977868251	-84.5628700079
HLX-5680	H5680	2425	GEORGETOWN RD	38.098961336	-84.5141215807
HLX-5681	H5681	3081	FIELDSTONE WAY	38.0133880939	-84.5579071295
HLX-5682	H5682	121	ROSEMARY AVE	38.0624348728	-84.4706748943
HLX-5683	H5683	2981	HEMINGWAY LN	38.0225782774	-84.5648325726
HLX-5684	H5684	3225	HEMINGWAY LN	38.0215988849	-84.5693874093
HLX-5685	H5685	1312	JEKYLL DR	38.0227880252	-84.5670193217

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 157 of 252
HLX-5686	H5686	2268	ROSWELL DR	38.0217554887	-84.5712097451
HLX-5687	H5687	130	SMYRNA LN	38.0238732297	-84.5701682519
HLX-5688	H5688	2265	SAVANNAH LN	38.0235100096	-84.5722095808
HLX-5689	H5689	1229	BIRMINGHAM LN	38.0225919629	-84.5693760689
HLX-5690	H5690	1320	MUMFORD LN	38.023526815	-84.5685868046
HLX-5691	H5691	4696	CARITA WOODS WAY	37.9490547142	-84.4952519938
HLX-5692	H5692	4721	CARITA WOODS WAY	37.9482917827	-84.4944150568
HLX-5693	H5693	1104	PARLIAMENT WAY	37.9797416918	-84.4966904059
HLX-5694	H5694	3793	LADY DI LN	37.9787484526	-84.4949272241
HLX-5695	H5695	4273	SARON DR	37.9648439401	-84.500918378
HLX-5696	H5696	3764	LADY DI LN	37.9794074331	-84.4944592396
HLX-5697	H5697	2432	FORTUNE DR	38.0334493888	-84.4463161528
HLX-5698	H5698	704	GRAFTONS MILL LN	38.0193535658	-84.4404792873
HLX-5699	H5699	2524	CHECKERBERRY DR	38.0178701543	-84.4416103956
HLX-5700	H5700	654	SMUGGLERS NOTCH DR	38.0189840149	-84.4396768411
HLX-5701	H5701	625	HUGGING BEAR LN	38.0180306096	-84.4397702848
HLX-5702	H5702	20	SHORESIDE DR	37.990628311	-84.4382190218
HLX-5703	H5703	236	SHORESIDE DR	37.9901375413	-84.4396619866
HLX-5704	H5704	3569	FOREST COVE LN	37.9908978476	-84.440131182
HLX-5705	H5705	4346	CLEARWATER WAY	37.9605331968	-84.5001610641
HLX-5706	H5706	2473	GEORGETOWN RD	38.1014696615	-84.514811626
HLX-5707	H5707	1708	JAGGIE FOX WAY	38.0875287312	-84.5175017138
HLX-5708	H5708	1728	JAGGIE FOX WAY	38.0891249474	-84.5179057401
HLX-5709	H5709	1853	SANDERSVILLE RD	38.0876655575	-84.5037735006
HLX-5710	H5710	642	BROOKGREEN LN	37.9971704637	-84.4174813057
HLX-5711	H5711	3581	COLT NECK LN	37.9988594276	-84.4758374682
HLX-5712	H5712	190	PLAUDIT PL	38.0185697438	-84.4159986992
HLX-5713	H5713	440	WHITFIELD DR	37.9620981147	-84.5208165583
HLX-5714	H5714	544	AMBERLEY DR	37.9613534853	-84.5190730316
HLX-5715	H5715	512	AMBERLEY DR	37.9606671512	-84.519858479
HLX-5716	H5716	472	AMBERLEY DR	37.9615167471	-84.5216275717
HLX-5718	H5718	289	SHORESIDE DR	37.9893648282	-84.4405789688
HLX-5719	H5719	2240	HUME RD	38.0451778834	-84.4182135252
HLX-5720	H5720	2124	AMI LN	38.0476493785	-84.4170334847

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HLX-5721	H5721	3132	ALTHORP WAY	38.0092131037	-84.4197678972
HLX-5722	H5722	1881	ARBOR STATION WAY	38.0880300197	-84.5057451257
HLX-5723	H5723	745	ST ELIAS LN	37.9571289005	-84.507762573
HLX-5724	H5724	4513	PALERMO LN	37.9567448105	-84.5087865814
HLX-5725	H5725	713	ST ELIAS LN	37.9578721334	-84.50923369
HLX-5726	H5726	4483	TANGLE HURST LN	37.9578819928	-84.5102881163
HLX-5727	H5727	916	LIMA CT	38.0718214299	-84.5074751255
HLX-5728	H5728	1750	PLEASANT RIDGE DR	38.0166929457	-84.412068718
HLX-5729	H5729	3176	GLENWOOD DR	38.0160903408	-84.4102760841
HLX-5730	H5730	1241	ASPEN ST	38.014734902	-84.4088688687
HLX-5731	H5731	1437	PLEASANT RIDGE DR	38.0136081297	-84.4075635438
HLX-5732	H5732	1396	PLEASANT RIDGE DR	38.0123672347	-84.4067478888
HLX-5733	H5733	640	ROLLING CREEK LN	37.9626530736	-84.5146783897
HLX-5734	H5734	685	ROLLING CREEK LN	37.9637614838	-84.5132596328
HLX-5735	H5735	4317	CREEK VALLEY WAY	37.9627534988	-84.5130922739
HLX-5736	H5736	677	EMMETT CREEK LN	37.9628236947	-84.5112012475
HLX-5737	H5737	696	EMMETT CREEK LN	37.9617136116	-84.5119456993
HLX-5738	H5738	285	MASTERSON STATION DR	38.0932114871	-84.5464447855
HLX-5739	H5739	2792	WOODLAWN WAY	38.0949742038	-84.5470603821
HLX-5740	H5740	261	MEADOW VALLEY RD	38.0944511508	-84.5483985395
HLX-5741	H5741	252	GATEWAY PARK CIR	38.0912920116	-84.5475491419
HLX-5742	H5742	517	DABNEY DR	38.0016538469	-84.4230048775
HLX-5743	H5743	3361	TYLER CT	38.000850745	-84.4232512081
HLX-5744	H5744	825	BURKEWOOD DR	38.0282334531	-84.4431019152
HLX-5745	H5745	885	BURKEWOOD DR	38.0283147057	-84.4410114888
HLX-5746	H5746	2236	KENWOOD DR	38.0271119188	-84.4414833226
HLX-5747	H5747	3657	LAREDO DR	37.9811765694	-84.5029118932
HLX-5748	H5748	3336	EMERSON WOODS WAY	37.9823850119	-84.5014986375
HLX-5749	H5749	603	SHERARD CIR	37.9807299668	-84.5005299617
HLX-5750	H5750	658	SHERARD CIR	37.9816545513	-84.4999353902
HLX-5751	H5751	3630	WALDEN DR	37.9792420521	-84.500013346
HLX-5752	H5752	3650	WALDEN DR	37.9781479731	-84.500439743
HLX-5753	H5753	932	ANDOVER GRN	38.0024442304	-84.4167288184
HLX-5754	H5754	564	HUNTERS GREEN CT	38.0018899106	-84.4186662913

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HLX-5755	H5755	3349	SQUIRE CREEK WAY	37.9740678534	-84.46113112
HLX-5756	H5756	4160	CLEARWATER WAY	37.9640160636	-84.5080460498
HLX-5757	H5757	4088	KENESAW DR	37.9547958386	-84.4863167733
HLX-5758	H5758	4809	BENTLEY WAY	37.9561542154	-84.4844837906
HLX-5759	H5759	1116	SEVILLE CT	37.9563741076	-84.4858669383
HLX-5760	H5760	1550	ARISTIDES BLVD	38.0937947452	-84.4891662006
HLX-5761	H5761	210	LIGHTHOUSE LN	38.0285818417	-84.4483028085
HLX-5762	H5762	505	IVYBRIDGE DR	37.9508650525	-84.487297818
HLX-5763	H5763	928	FIRETHORN PL	37.9498433621	-84.4882127988
HLX-5764	H5764	1524	BULL LEA RD	38.0899962275	-84.4931264568
HLX-5765	H5765	4525	PALERMO LN	37.9560902589	-84.5089089329
HLX-5766	H5766	3059	CLAIR RD	38.005373955	-84.4864866375
HLX-5767	H5767	796	RAMBLING CREEK DR	38.0167106939	-84.4309157248
HLX-5768	H5768	756	RAMBLING CREEK DR	38.0159953751	-84.4321629799
HLX-5769	H5769	2668	CRYSTAL FALLS RD	38.0152416943	-84.4322194893
HLX-5770	H5770	769	MILES POINT WAY	38.0641520979	-84.5546730013
HLX-5771	H5771	3704	RIDGE VIEW WAY	37.992242283	-84.4168696895
HLX-5772	H5772	3740	PARK RIDGE LN	37.9918550416	-84.4186689872
HLX-5773	H5773	50	LAKE VALLEY DR	37.9928261413	-84.4191444098
HLX-5774	H5774	520	LAKE VALLEY DR	37.9935587087	-84.4184939729
HLX-5775	H5775	1099	DUVAL ST	37.9653740531	-84.4959478198
HLX-5776	H5776	631	BLUE ASH DR	38.0278156708	-84.532189661
HLX-5777	H5777	4359	BRYAN STATION RD	38.101473085	-84.3823946136
HLX-5778	H5778	3251	BEAUMONT CENTRE CIR	38.0167260564	-84.5611652876
HLX-5779	H5779	501	FOREST HILL DR	37.9994134857	-84.4201182797
HLX-5780	H5780	3396	MALONE DR	38.0134617101	-84.5736463328
HLX-5781	H5781	2212	WILMINGTON LN	38.0146420302	-84.5738733209
HLX-5782	H5782	260	ELLIS PK	38.0714884792	-84.4485103795
HLX-5783	H5783	1197	LACY LN	38.023877223	-84.5640707114
HLX-5784	H5784	721	HAGGIN PL	38.0354406998	-84.5312616932
HLX-5785	H5785	838	VERMILLION PEAK PASS	37.9556186377	-84.5071479573
HLX-5786	H5786	781	FITZROY LN	37.9560013828	-84.5101914495
HLX-5787	H5787	748	VERMILLION PEAK PASS	37.9548361532	-84.5107710946
HLX-5788	H5788	2259	JAGGIE FOX WAY	38.0981887115	-84.5181975515

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5789	H5789	0	MAN O WAR BLVD	37.9773460845	-84.5323777332
HLX-5790	H5790	0	MAN O WAR BLVD	37.9767105571	-84.5307163916
HLX-5791	H5791	4051	NICHOLASVILLE RD	37.9773825142	-84.5298731789
HLX-5792	H5792	4025	JOHN ALDEN LN	38.0443108702	-84.562111042
HLX-5793	H5793	2153	CALL DR	38.046429843	-84.4255517136
HLX-5794	H5794	210	EXECUTIVE DR	38.0468977361	-84.427659623
HLX-5795	H5795	2096	STONEWOOD LN	38.0304237024	-84.4440408909
HLX-5796	H5796	1217	ALDRIDGE WAY	37.9575905761	-84.4842578418
HLX-5797	H5797	1165	ALDRIDGE WAY	37.9575219356	-84.4864580504
HLX-5798	H5798	280	HANNA PL	38.0102179855	-84.4485838932
HLX-5799	H5799	1425	SADDLE CLUB WAY	38.047349893	-84.560735627
HLX-5800	H5800	1453	SADDLE CLUB WAY	38.0469072007	-84.5617326671
HLX-5801	H5801	2532	DRESSAGE WAY	38.0480270107	-84.5615335906
HLX-5802	H5802	1396	SADDLE CLUB WAY	38.0488532295	-84.5606891194
HLX-5803	H5803	1352	SADDLE CLUB WAY	38.0496795282	-84.5619975659
HLX-5804	H5804	1320	SADDLE CLUB WAY	38.0483736809	-84.5625769236
HLX-5805	H5805	1470	GREENDALE RD	38.1022419841	-84.5250286482
HLX-5806	H5806	1248	GREENDALE RD	38.0968141834	-84.5275322376
HLX-5807	H5807	5317	WINCHESTER RD	38.0290681692	-84.3263681302
HLX-5808	H5808	6177	WINCHESTER RD	38.0310930524	-84.2957330026
HLX-5809	H5809	847	EASTMONT RD	38.0302252844	-84.4422220162
HLX-5810	H5810	2077	STONEWOOD LN	38.029779371	-84.4442867149
HLX-5811	H5811	2157	HADDON DR	38.0287639785	-84.4454021026
HLX-5812	H5812	2192	HADDON DR	38.0277107854	-84.4442550519
HLX-5813	H5813	4901	MT HOREB PIKE	38.167646838	-84.463550601
HLX-5814	H5814	4546	MT HOREB PIKE	38.1606390999	-84.4669908656
HLX-5815	H5815	4346	MT HOREB PIKE	38.1556044233	-84.4696599427
HLX-5816	H5816	2789	JACQUELYN LN	38.0932774576	-84.5439456715
HLX-5817	H5817	441	LUCILLE DR	38.0928268189	-84.5415999052
HLX-5818	H5818	357	LUCILLE DR	38.0916100838	-84.5439354639
HLX-5819	H5819	293	LUCILLE DR	38.0902355996	-84.5456536347
HLX-5820	H5820	337	ELLA RAE LN	38.0909196875	-84.5435354827
HLX-5821	H5821	2742	MABLE LN	38.0892739123	-84.5431835641
HLX-5822	H5822	1025	MONARCH ST	38.0216730512	-84.5555550661

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5823	H5823	372	PINEWOOD CT	38.0090297752	-84.4406148278
HLX-5824	H5824	210	CAPSTONE DR	38.091041181	-84.5153540585
HLX-5825	H5825	2141	CAPSTONE DR	38.0914484776	-84.5178573586
HLX-5826	H5826	2156	ALLEGHENY WAY	38.0240504042	-84.5626433971
HLX-5827	H5827	1120	ROLFE LN	38.0252533545	-84.5632495596
HLX-5828	H5828	60	DANBY WOODS DR	38.0187617362	-84.4426017503
HLX-5829	H5829	824	FOREST LAKE DR	37.9480308543	-84.4974295119
HLX-5830	H5830	536	RHODORA RDG	37.9836582265	-84.5004848384
HLX-5831	H5831	60	POPLAR SPRINGS LN	37.9617956894	-84.5176218114
HLX-5832	H5832	4461	RIVER RIDGE RD	37.9610193703	-84.5152286366
HLX-5833	H5833	672	POPLAR SPRINGS LN	37.9601271727	-84.5136991218
HLX-5834	H5834	1077	DUVAL ST	37.9647447642	-84.4977270635
HLX-5835	H5835	985	CHAS DR	37.96565756	-84.4981815985
HLX-5836	H5836	1065	DUVAL ST	37.9642432462	-84.4989718051
HLX-5837	H5837	4376	CLEARWATER WAY	37.9616224638	-84.4987767341
HLX-5838	H5838	2160	SIR BARTON WAY	38.0216791061	-84.420761919
HLX-5839	H5839	1865	ALYSHEBA WAY	38.020678021	-84.4189265189
HLX-5840	H5840	4799	BRYAN STATION RD	38.1084562023	-84.370650619
HLX-5841	H5841	1290	VILEY RD	38.0511069396	-84.559875553
HLX-5842	H5842	918	LITERARY CIR	38.0126105716	-84.5586253541
HLX-5843	H5843	2748	WOODLAWN WAY	38.0944131795	-84.5443653859
HLX-5844	H5844	270	WOODLAWN WAY	38.0956190868	-84.5430418594
HLX-5845	H5845	308	VALLEY BROOK DR	38.0951006457	-84.5457970768
HLX-5846	H5846	328	DEERFIELD LN	38.0963663675	-84.5461950996
HLX-5847	H5847	309	MEADOW VALLEY RD	38.0963331867	-84.5473292954
HLX-5848	H5848	360	VALLEY BROOK DR	38.0967449698	-84.5444717878
HLX-5849	H5849	413	MEADOW VALLEY RD	38.0974863296	-84.5434806307
HLX-5851	H5851	2272	CHAMBLEE LN	38.0248846585	-84.5673929868
HLX-5852	H5852	1890	STAR SHOOT PKY	38.0244387515	-84.4236655435
HLX-5853	H5853	0	SIR BARTON WAY	38.0225900352	-84.4225248483
HLX-5854	H5854	989	STAR SHOOT PKY	38.0226260857	-84.4268277094
HLX-5855	H5855	901	STAR SHOOT PKY	38.0207505953	-84.4289010336
HLX-5856	H5856	848	STAR SHOOT PKY	38.0197039774	-84.4300135558
HLX-5857	H5857	2645	RED LEAF DR	38.0187149629	-84.4282510136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5858	H5858	2688	RED LEAF DR	38.0173013687	-84.4269041318
HLX-5859	H5859	80	GUNPOWDER DR	38.0163676573	-84.4284191135
HLX-5860	H5860	801	LIVANIA LN	38.0177916325	-84.4298309355
HLX-5861	H5861	2052	ALLEGHENY WAY	38.0270770586	-84.5619810899
HLX-5862	H5862	2229	SAVANNAH LN	38.0254472231	-84.5708398171
HLX-5863	H5863	201	ALLEGHENY WAY	38.0265974926	-84.5638879941
HLX-5864	H5864	210	ALLEGHENY WAY	38.0257524841	-84.561734727
HLX-5865	H5865	950	CONTRACT ST	38.0507031668	-84.4647776225
HLX-5866	H5866	1015	CONTRACT ST	38.0512364256	-84.4622914271
HLX-5867	H5867	100	FLOYD DR	38.0501575268	-84.4608819615
HLX-5868	H5868	1993	SANDERSVILLE RD	38.0861002838	-84.5101668123
HLX-5869	H5869	1977	ARBOR STATION WAY	38.0867796895	-84.5101212515
HLX-5870	H5870	1917	ARBOR STATION WAY	38.0874669673	-84.5072901471
HLX-5871	H5871	130	TUPELO LN	38.0256896306	-84.5692337192
HLX-5872	H5872	2201	SAVANNAH LN	38.0274340722	-84.570440763
HLX-5873	H5873	1273	LITCHFIELD LN	38.0261881784	-84.5665748632
HLX-5874	H5874	1224	LITCHFIELD LN	38.0247053949	-84.5663724988
HLX-5875	H5875	251	YORKSHIRE BLVD	38.0013682032	-84.4308688561
HLX-5876	H5876	701	N YARNALLTON PIKE	38.1164760654	-84.5783178148
HLX-5877	H5877	345	RUCCIO WAY	37.9947966075	-84.5335195503
HLX-5878	H5878	40	SPORTING CT	37.9971654021	-84.533358777
HLX-5879	H5879	261	RUCCIO WAY	37.9968096102	-84.5305015074
HLX-5880	H5880	2566	KNIGHTSBRIDGE LN	38.0294645	-84.4468797307
HLX-5881	H5881	2601	WHITEBERRY DR	38.0845137838	-84.5520803898
HLX-5882	H5882	2657	WHITEBERRY DR	38.0830973906	-84.5502540798
HLX-5883	H5883	2760	WHITEBERRY DR	38.0825483818	-84.5521452652
HLX-5884	H5884	2798	WHITEBERRY DR	38.0832732204	-84.5533260099
HLX-5885	H5885	221	CHESTNUT RIDGE DR	38.0816913401	-84.5549730575
HLX-5886	H5886	184	CLOVER VALLEY DR	38.0813150031	-84.552883816
HLX-5887	H5887	248	CLOVER VALLEY DR	38.0801588565	-84.5542549883
HLX-5888	H5888	296	PREAKNESS DR	38.0717098016	-84.4459452609
HLX-5889	H5889	3349	MALONE DR	38.0155738251	-84.5717826583
HLX-5890	H5890	1989	BRYANT RD	38.0185335512	-84.4115680546
HLX-5891	H5891	2912	POLO CLUB BLVD	38.0245526216	-84.4058374211

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5892	H5892	2225	BARRINGTON LN	38.0220060381	-84.4018919557
HLX-5893	H5893	3149	CAVERSHAM PARK LN	38.0202521181	-84.4008523166
HLX-5894	H5894	2233	BLACKMOOR PARK LN	38.0206429504	-84.4025818107
HLX-5895	H5895	3205	CAVERSHAM PARK LN	38.0202521181	-84.4008523166
HLX-5896	H5896	3012	POLO CLUB BLVD	38.0208255012	-84.4036724238
HLX-5897	H5897	4293	SARON DR	37.9638426386	-84.5003190373
HLX-5898	H5898	976	HAMMOCK OAK LN	37.9623443911	-84.4991247092
HLX-5899	H5899	4324	CALAIS PL	37.9625648803	-84.5004818605
HLX-5900	H5900	68	CODELL DR	38.0107410271	-84.4501726653
HLX-5901	H5901	1532	BULL LEA RD	38.0918544032	-84.4927766546
HLX-5902	H5902	1551	MCGRATHIANA PKY	38.0932462925	-84.4942213172
HLX-5903	H5903	1551	ARISTIDES BLVD	38.0945073443	-84.4914554215
HLX-5904	H5904	3980	KENESAW DR	37.9576952834	-84.4831117353
HLX-5905	H5905	4837	CLIFFORD CIR	37.9590639807	-84.4831338509
HLX-5906	H5906	709	WHISPERING BROOK TRCE	38.0164737996	-84.4331233454
HLX-5907	H5907	1684	CHANDLER LN	38.0356166407	-84.5299230184
HLX-5908	H5908	4844	CHELMSBURY LN	37.9551042758	-84.4838298862
HLX-5909	H5909	2729	JACQUELYN LN	38.0911210107	-84.5414028005
HLX-5910	H5910	325	PRINCESS ARCH LN	38.0900942554	-84.5408480414
HLX-5911	H5911	2684	MABLE LN	38.0887442644	-84.5407296893
HLX-5912	H5912	2608	MABLE LN	38.0906602577	-84.539596151
HLX-5913	H5913	2189	BIRKDALE DR	38.0152402838	-84.40338998
HLX-5914	H5914	3257	ROYAL TROON RD	38.0139996026	-84.4038009844
HLX-5915	H5915	3345	ROYAL TROON RD	38.0156214568	-84.4049343708
HLX-5916	H5916	2025	SHAKER RUN RD	38.0190804367	-84.4047771351
HLX-5917	H5917	2085	SHAKER RUN RD	38.0176129226	-84.4061942086
HLX-5918	H5918	2149	SHAKER RUN RD	38.0162584512	-84.4054693751
HLX-5919	H5919	3045	QUAKER HILL LN	38.0171711773	-84.4047397427
HLX-5920	H5920	2269	SHAKER RUN RD	38.0183690185	-84.4017306704
HLX-5921	H5921	2225	SHAKER RUN RD	38.0165879219	-84.4018939221
HLX-5922	H5922	3096	POLO CLUB BLVD	38.0167585415	-84.4036717941
HLX-5923	H5923	3232	POLO CLUB BLVD	38.0154928329	-84.4024991127
HLX-5924	H5924	308	CHARLESTON GARDENS BLVD	37.9447754606	-84.4846148862
HLX-5925	H5925	3036	CHARLESTON GARDENS BLVD	37.9440938873	-84.4858907994

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 164 of 252
HLX-5926	H5926	3016	ASHLEY OAKS DR	37.9438068669	-84.4847311866
HLX-5927	H5927	201	RUCCIO WAY	37.9936647629	-84.5300399521
HLX-5928	H5928	233	RUCCIO WAY	37.9959266627	-84.5289171685
HLX-5929	H5929	748	NICKWOOD TRL	38.0162922068	-84.4345004107
HLX-5930	H5930	80	NICKWOOD TRL	38.0173598203	-84.4332029856
HLX-5931	H5931	2197	CURTISWOOD DR	38.0478689818	-84.425684419
HLX-5933	H5933	2065	CORIANDE LN	38.0479896349	-84.4285623301
HLX-5934	H5934	2109	CALL DR	38.0474111941	-84.4268693391
HLX-5935	H5935	3413	PUEBLO CT	38.0126475592	-84.4060304493
HLX-5936	H5936	3360	PUEBLO CT	38.0138153595	-84.4065335957
HLX-5937	H5937	2829	ASHBY GLEN PL	38.0115461617	-84.446328334
HLX-5938	H5938	2945	SANDERSVILLE RD	38.1000558391	-84.5399018019
HLX-5939	H5939	424	ST JOHN CT	38.0749546892	-84.476067057
HLX-5940	H5940	2241	DOGWOOD TRACE BLVD	37.983987579	-84.582822053
HLX-5941	H5941	2133	LADERA LN	37.9846975104	-84.582346422
HLX-5942	H5942	4801	DRESDEN WAY	37.9868417721	-84.5824436988
HLX-5943	H5943	1332	WAKEHURST CT	38.0110683923	-84.4066791066
HLX-5944	H5944	4323	LEESTOWN RD	38.1145337042	-84.5917494609
HLX-5945	H5945	2297	DOGWOOD TRACE BLVD	37.983293292	-84.5806203424
HLX-5946	H5946	2340	DOGWOOD TRACE BLVD	37.9851602263	-84.581171511
HLX-5947	H5947	380	MASTERSON STATION DR	38.09410867	-84.5419988165
HLX-5948	H5948	408	MASTERSON STATION DR	38.0944609714	-84.5407509668
HLX-5949	H5949	437	SKYVIEW LN	38.0960844589	-84.5411578587
HLX-5950	H5950	481	SKYVIEW LN	38.0977887289	-84.5412040949
HLX-5951	H5951	2909	SANDERSVILLE RD	38.0986485694	-84.5401672819
HLX-5952	H5952	505	LEMON DROP LN	38.0987945161	-84.5414721091
HLX-5953	H5953	476	LEMON DROP LN	38.0973422968	-84.5422653898
HLX-5954	H5954	441	LEMON DROP LN	38.0958220564	-84.5421569146
HLX-5955	H5955	2156	ROSWELL DR	38.0291609584	-84.5691869457
HLX-5956	H5956	1236	SEBRING LN	38.029139448	-84.5672081763
HLX-5957	H5957	2133	NAPLES LN	38.0301676746	-84.5678075853
HLX-5958	H5958	2197	ROSWELL DR	38.0271881904	-84.5683739084
HLX-5959	H5959	5053	IVYBRIDGE DR	37.9486839222	-84.4884085579
HLX-5960	H5960	5105	IVYBRIDGE DR	37.947052588	-84.4905478185

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5961	H5961	1051	RED MILE RD	38.0397387383	-84.5218816198
HLX-5962	H5962	30	CEDAR MILL CIR	38.0896387038	-84.5398005959
HLX-5963	H5963	1996	PARKERS MILL RD	38.0340805444	-84.5681175598
HLX-5964	H5964	2000	PARKERS MILL RD	38.0323439679	-84.5665865323
HLX-5965	H5965	1910	JAGGIE FOX WAY	38.0952820424	-84.51772545
HLX-5966	H5966	1801	JAGGIE FOX WAY	38.0929035897	-84.5179117193
HLX-5967	H5967	3276	DRAYTON PL	37.9973874581	-84.5430207139
HLX-5968	H5968	3249	DRAYTON PL	37.9985440754	-84.5434601904
HLX-5969	H5969	3191	MAPLELEAF DR	38.0025215448	-84.4242232535
HLX-5970	H5970	301	TOWN BRANCH RD	38.0891354643	-84.5587028886
HLX-5971	H5971	3012	TOWN BRANCH RD	38.0890842986	-84.559777677
HLX-5972	H5972	181	ANGEL FALLS DR	38.0877189089	-84.5608728392
HLX-5973	H5973	124	LEATHERWOOD LN	38.0887109713	-84.5610259742
HLX-5974	H5974	3020	CADDIS LN	38.0892134685	-84.561840403
HLX-5975	H5975	101	BLUE HERON PL	38.0897894585	-84.5627996447
HLX-5976	H5976	3276	MALONE DR	38.0177426058	-84.5721284297
HLX-5977	H5977	3285	SEBASTIAN LN	38.0192641597	-84.5726744231
HLX-5978	H5978	3221	SEBASTIAN LN	38.0182649901	-84.569428262
HLX-5979	H5979	2236	BARNWELL LN	38.0190948213	-84.571028289
HLX-5980	H5980	3201	RIDGECANE RD	38.0202700933	-84.57118971
HLX-5981	H5981	1233	KANNAPOLIS PL	38.0202940938	-84.5692444298
HLX-5982	H5982	645	MANNINGTON PL	37.9991335191	-84.5449831448
HLX-5983	H5983	301	DARENIA LN	38.0870763191	-84.5438097384
HLX-5984	H5984	232	DARENIA LN	38.0856053866	-84.5446542742
HLX-5985	H5985	20	DARENIA LN	38.0844359026	-84.5450316664
HLX-5986	H5986	110	FERNDALE PASS	38.0837527567	-84.5438568721
HLX-5987	H5987	2533	SPRING VALLEY LOOP	38.0847985667	-84.5430651096
HLX-5988	H5988	257	SPRING VALLEY LN	38.0859597271	-84.5434941674
HLX-5989	H5989	309	SPRING VALLEY LN	38.0871985225	-84.542717122
HLX-5990	H5990	2505	BUCK LN	38.0863774272	-84.5418375105
HLX-5991	H5991	492	WELLINGTON WAY	37.9972222473	-84.5400818791
HLX-5992	H5992	3284	DORCHESTER PL	37.9970677658	-84.5412678726
HLX-5993	H5993	3240	MARSTON PL	37.9985728068	-84.5417943483
HLX-5994	H5994	532	WELLINGTON WAY	37.9990697756	-84.540690343

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5995	H5995	568	WELLINGTON WAY	38.0002042331	-84.5421000477
HLX-5996	H5996	320	DRAYTON PL	38.0007530519	-84.5440291429
HLX-5997	H5997	1425	SCARLETT WAY	37.9906508521	-84.5710139447
HLX-5998	H5998	3301	DRAYTON PL	37.9969563965	-84.5432423364
HLX-5999	H5999	3341	DRAYTON PL	37.9957147659	-84.5440166276
HLX-6000	H6000	3333	DORCHESTER PL	37.9950445972	-84.5416352189
HLX-6001	H6001	590	HADLOW ST	37.9955729723	-84.5429614054
HLX-6002	H6002	3301	DORCHESTER PL	37.9964969768	-84.5417615301
HLX-6003	H6003	146	E SHORT ST	38.0461592449	-84.4955515011
HLX-6004	H6004	899	BELMERE DR	38.0218846819	-84.4310703168
HLX-6005	H6005	2531	FLYING EBONY DR	38.0229753629	-84.4323829639
HLX-6006	H6006	2540	BELMERE DR	38.0230467325	-84.4297519152
HLX-6007	H6007	974	FIDDLER CREEK WAY	37.9638717844	-84.5020425782
HLX-6008	H6008	754	CHILESBURG RD	37.9939415201	-84.4026805472
HLX-6009	H6009	801	DENAALI PASS	37.9935315024	-84.4005922875
HLX-6010	H6010	4172	BOONE CREEK RD	37.9940718561	-84.4000755811
HLX-6011	H6011	4029	BOONE CREEK RD	37.9936672386	-84.3986513363
HLX-6012	H6012	4059	BOONE CREEK RD	37.9944366259	-84.3975461543
HLX-6013	H6013	2796	MICHELLE PK	38.0888830914	-84.547055577
HLX-6014	H6014	2740	MICHELLE PK	38.0882226226	-84.5454513197
HLX-6015	H6015	2680	MICHELLE PK	38.0873512578	-84.5446523887
HLX-6016	H6016	589	ALDERBROOK WAY	37.9632818521	-84.5180451883
HLX-6017	H6017	565	ALDERBROOK WAY	37.9638496522	-84.5191008489
HLX-6018	H6018	4341	RIVER OAK TRL	37.962993998	-84.5209482935
HLX-6019	H6019	529	ALDERBROOK WAY	37.9645359297	-84.5209787365
HLX-6020	H6020	225	BITTERSWEET WAY	37.96647969	-84.5258221058
HLX-6021	H6021	40	MEADOWCREST PK	37.9653248859	-84.5267123551
HLX-6022	H6022	372	MEADOWCREST PK	37.9658703127	-84.527905007
HLX-6023	H6023	197	BITTERSWEET WAY	37.9669651336	-84.5268137893
HLX-6024	H6024	10	STRAWBERRY FIELDS RD	38.0772763651	-84.4512627709
HLX-6025	H6025	160	STRAWBERRY FIELDS RD	38.0772624346	-84.449365626
HLX-6026	H6026	125	PREAKNESS DR	38.0761437699	-84.4490600793
HLX-6027	H6027	188	PREAKNESS DR	38.0751262009	-84.4475053875
HLX-6028	H6028	2836	SANDERSVILLE RD	38.0954744077	-84.5401131836

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HLX-6029	H6029	2872	SANDERSVILLE RD	38.0970154834	-84.5402071761
HLX-6030	H6030	2465	ASTARITA WAY	38.0247510776	-84.4297221279
HLX-6031	H6031	908	PRINCESS DOREEN DR	38.0260517693	-84.4317460116
HLX-6032	H6032	901	STAR GAZE DR	38.0253749876	-84.4328020513
HLX-6033	H6033	908	STAR OF DANUBE WAY	38.0240375427	-84.4317791729
HLX-6034	H6034	2656	MABLE LN	38.0890222674	-84.5400437124
HLX-6035	H6035	2205	SUNNINGDALE DR	38.0155832676	-84.4009508663
HLX-6036	H6036	2225	SUNNINGDALE DR	38.0165520185	-84.4002476336
HLX-6037	H6037	2265	SUNNINGDALE DR	38.0179744911	-84.3991896679
HLX-6038	H6038	2297	SUNNINGDALE DR	38.0191220111	-84.398020684
HLX-6039	H6039	2301	CROSS CREEK TRCE	38.0200561184	-84.39869476
HLX-6040	H6040	941	CHAS DR	37.9665070876	-84.4993628418
HLX-6041	H6041	880	CITATION BLVD	38.0885563031	-84.4964320513
HLX-6042	H6042	503	MCGRATHIANA PKY	38.0900482438	-84.4987319864
HLX-6043	H6043	1526	MCGRATHIANA PKY	38.0918007239	-84.4961784039
HLX-6044	H6044	1776	MCGRATHIANA PKY	38.0935627563	-84.4976062707
HLX-6045	H6045	1777	MCGRATHIANA PKY	38.0956556154	-84.4987765931
HLX-6046	H6046	1701	MCGRATHIANA PKY	38.0975623263	-84.4979944093
HLX-6047	H6047	1679	MCGRATHIANA PKY	38.0983788445	-84.4955228314
HLX-6048	H6048	1648	MCGRATHIANA PKY	38.0961903612	-84.4935711884
HLX-6049	H6049	3725	MOSSBRIDGE WAY	37.9763001344	-84.5454550891
HLX-6050	H6050	3657	MOSSBRIDGE WAY	37.977254743	-84.5448584837
HLX-6051	H6051	3629	MOSSBRIDGE WAY	37.9780320008	-84.5443813921
HLX-6052	H6052	3701	WINTHROP DR	37.976582287	-84.5441289008
HLX-6053	H6053	3681	WINTHROP DR	37.9774152702	-84.5435927638
HLX-6054	H6054	5275	PARIS PIKE	38.1309636863	-84.3731121277
HLX-6055	H6055	2415	WALNUT GROVE LN	38.0187475681	-84.3780947772
HLX-6056	H6056	1270	DEER HAVEN LN	38.0012165981	-84.3942231936
HLX-6057	H6057	1440	DEER HAVEN LN	38.0046650441	-84.3905271813
HLX-6058	H6058	1884	DEER HAVEN LN	38.0070867051	-84.3878139664
HLX-6059	H6059	3801	BRIAR HILL RD	38.0694877697	-84.3792676535
HLX-6060	H6060	380	HORSE MINT TRL	37.9932566446	-84.4122103842
HLX-6061	H6061	3825	HORSE MINT TRL	37.9922325656	-84.4113044835
HLX-6062	H6062	3824	STILL MEADOW LN	37.9918066461	-84.412227109

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HLX-6063	H6063	3801	STILL MEADOW LN	37.9928296712	-84.4130840003
HLX-6064	H6064	1588	HILL RISE DR	38.0471888412	-84.530809148
HLX-6065	H6065	1949	SANDERSVILLE RD	38.0862415912	-84.5079552589
HLX-6066	H6066	861	CEDARWOOD DR	38.0855487586	-84.5075900874
HLX-6067	H6067	1993	LOST TRAIL LN	38.0851699773	-84.5098055952
HLX-6068	H6068	856	HIDDEN STREAM DR	38.0846642352	-84.5084211917
HLX-6069	H6069	3563	PARK PIKE	38.1008871773	-84.4173433945
HLX-6070	H6070	3693	PARK PIKE	38.1025195986	-84.4148660997
HLX-6071	H6071	3275	BLAZER PKY	38.0033737602	-84.4388654459
HLX-6072	H6072	231	FOUNTAIN CT	38.004553893	-84.4379164019
HLX-6073	H6073	3816	LADY DI LN	37.9780246812	-84.4956515959
HLX-6074	H6074	3044	TOWN BRANCH RD	38.090063692	-84.561560867
HLX-6075	H6075	108	LONG BRANCH LN	38.0914103484	-84.5611856506
HLX-6076	H6076	3397	DRAYTON PL	37.994172154	-84.544868005
HLX-6077	H6077	564	WELLINGTON GARDENS DR	37.9942583752	-84.5430878738
HLX-6078	H6078	508	WELLINGTON GARDENS DR	37.9944501177	-84.5408282515
HLX-6079	H6079	3173	KEITHSHIRE WAY	37.9943251677	-84.5393725882
HLX-6080	H6080	3253	KEITHSHIRE WAY	37.9934880983	-84.542919375
HLX-6081	H6081	220	GUILFORD LN	38.027571463	-84.5716953025
HLX-6082	H6082	2225	GUILFORD LN	38.0256990761	-84.5720257244
HLX-6083	H6083	2889	SANDERSVILLE RD	38.0979444564	-84.5399519602
HLX-6084	H6084	524	GREEN VALLEY DR	38.0970116864	-84.5388338838
HLX-6085	H6085	545	GREEN VALLEY DR	38.0979985674	-84.5382603777
HLX-6086	H6086	228	SPRINTERS TRL	38.0786192612	-84.5516475895
HLX-6087	H6087	2644	TRAILWOOD LN	38.0787169897	-84.5498467764
HLX-6088	H6088	551	DELONG RD	37.9772896808	-84.4360843453
HLX-6089	H6089	770	DELONG RD	37.9765657336	-84.4422230286
HLX-6090	H6090	950	DELONG RD	37.9722544372	-84.4457355968
HLX-6091	H6091	1402	DELONG RD	37.9668315632	-84.448087167
HLX-6092	H6092	2050	DELONG RD	37.9575944165	-84.4526002689
HLX-6093	H6093	2436	FRANKS WAY	38.0259819282	-84.4293025806
HLX-6094	H6094	2472	FRANKS WAY	38.0242087966	-84.4283595211
HLX-6095	H6095	945	VILLAGE GREEN AVE	38.0230285188	-84.4284077265
HLX-6096	H6096	3073	CADDIS LN	38.0902792483	-84.5632502962

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HLX-6097	H6097	1896	SANDERSVILLE RD	38.0871615111	-84.5058810516
HLX-6098	H6098	1913	LOST TRAIL LN	38.086161426	-84.5063268181
HLX-6099	H6099	1873	LOST TRAIL LN	38.0867603264	-84.5046419532
HLX-6100	H6100	2404	ENGLISH STATION DR	37.991654898	-84.583550787
HLX-6101	H6101	2388	ENGLISH STATION DR	37.9914325195	-84.5826928888
HLX-6103	H6103	2216	TERRANOVA CT	38.0254623411	-84.5736871298
HLX-6104	H6104	2261	GUILFORD LN	38.0240152184	-84.573327483
HLX-6105	H6105	565	SKYVIEW LN	38.0978503236	-84.5375018179
HLX-6106	H6106	665	KENOVA TRCE	38.0964179339	-84.5361915226
HLX-6107	H6107	585	HOPEWELL PK	38.0967201107	-84.5379464471
HLX-6108	H6108	573	CANE RUN RD	38.0757163884	-84.4728229656
HLX-6109	H6109	584	DOVER RD	38.0769283709	-84.4722238378
HLX-6110	H6110	2288	VALENCIA DR	38.0090122848	-84.5753981932
HLX-6111	H6111	3519	CAVE HILL PL	38.0112633657	-84.5734718494
HLX-6112	H6112	3550	CAVE HILL PL	38.0099720282	-84.5742631287
HLX-6113	H6113	2232	CAROLINA LN	38.0283667772	-84.5708819661
HLX-6114	H6114	2188	CAROLINA LN	38.030043297	-84.571383818
HLX-6115	H6115	2137	ROSWELL DR	38.0295899966	-84.5700542548
HLX-6116	H6116	2132	CAROLINA LN	38.030835899	-84.5691928737
HLX-6117	H6117	764	STATESMAN WAY	38.0410670792	-84.464424846
HLX-6118	H6118	413	ST JOHN CT	38.0743458943	-84.4753288619
HLX-6119	H6119	120	E NEW CIRCLE RD	38.0319987063	-84.4531660117
HLX-6120	H6120	2407	MACKINWOOD DR	38.0657652261	-84.5551364332
HLX-6121	H6121	2433	MACKINWOOD DR	38.0653563564	-84.5570279043
HLX-6122	H6122	2448	MACKINWOOD DR	38.0662437159	-84.5575231024
HLX-6123	H6123	553	HOPEWELL PK	38.0956731345	-84.5384962906
HLX-6124	H6124	5088	MIDDLETON PL	37.9455427527	-84.4848728069
HLX-6125	H6125	5072	MAGNOLIA GARDENS PL	37.9444723633	-84.4868595668
HLX-6126	H6126	5036	MAGNOLIA GARDENS PL	37.9454893976	-84.4879296894
HLX-6127	H6127	500	GREENVILLE TER	37.9446471963	-84.4884135319
HLX-6128	H6128	5024	GREENVILLE TER	37.9437913468	-84.4874570444
HLX-6129	H6129	101	WHITE OAK TRCE	38.0873610375	-84.5556594647
HLX-6130	H6130	136	WHITE OAK TRCE	38.0860021933	-84.5565774693
HLX-6131	H6131	140	BLACK WATER LN	38.0851805415	-84.5563934826

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HLX-6132	H6132	201	BLACK WATER LN	38.0837469177	-84.557743611
HLX-6133	H6133	253	WHITE OAK TRCE	38.0829235401	-84.5593491384
HLX-6134	H6134	201	WHITE OAK TRCE	38.0842936853	-84.558462353
HLX-6135	H6135	176	WHITE OAK TRCE	38.0848645115	-84.5578822785
HLX-6136	H6136	0	W REYNOLDS RD	37.9955930108	-84.5377961347
HLX-6137	H6137	837	HENDERSON DR	37.9541225712	-84.5058914577
HLX-6138	H6138	4712	POMPANO LN	37.9536013196	-84.5074536576
HLX-6139	H6139	893	HENDERSON DR	37.9524083488	-84.506834704
HLX-6140	H6140	4701	BOCA LN	37.9537829968	-84.5085849303
HLX-6141	H6141	820	LAUDERDALE DR	37.95432198	-84.5071481531
HLX-6142	H6142	893	LAUDERDALE DR	37.9538168414	-84.510505682
HLX-6143	H6143	941	LAUDERDALE DR	37.9541783837	-84.51264
HLX-6144	H6144	464	SOUTHPOINT DR	37.9594508088	-84.5172594696
HLX-6145	H6145	501	SOUTHPOINT DR	37.9599471289	-84.515536783
HLX-6146	H6146	537	SOUTHPOINT DR	37.9594450441	-84.51385797
HLX-6147	H6147	569	SOUTHPOINT DR	37.958425146	-84.5127546466
HLX-6148	H6148	597	SOUTHPOINT DR	37.957038109	-84.5114157158
HLX-6149	H6149	601	TOWNSEND RDG	37.9751983872	-84.5437421141
HLX-6150	H6150	532	NEWBURY WAY	37.9749011292	-84.5424345156
HLX-6151	H6151	501	NEWBURY WAY	37.9749200071	-84.5409176572
HLX-6153	H6153	521	WHITFIELD DR	37.9606699616	-84.5171040656
HLX-6154	H6154	2890	RICHMOND RD	38.0070344316	-84.4523993283
HLX-6155	H6155	536	MILLPOND RD	37.976373807	-84.5419965851
HLX-6156	H6156	460	NEWBURY WAY	37.9746371754	-84.5397312603
HLX-6157	H6157	427	NEWBURY WAY	37.9753933483	-84.5388787322
HLX-6158	H6158	937	JOUETT CREEK DR	37.9926963029	-84.3995924168
HLX-6159	H6159	4141	BOONE CREEK RD	37.9948357944	-84.3998163956
HLX-6160	H6160	4109	BOONE CREEK RD	37.9945992421	-84.3984473505
HLX-6161	H6161	109	BRYCE PT	37.9952772155	-84.398594075
HLX-6162	H6162	2933	CADENTOWN RD	38.0114072616	-84.4258733087
HLX-6163	H6163	699	COFFEE TREE LN	38.0678897817	-84.5019991905
HLX-6164	H6164	681	COFFEE TREE LN	38.0669500551	-84.501960986
HLX-6165	H6165	553	DOUGLAS AVE	38.0669806042	-84.5006751115
HLX-6166	H6166	572	GLEN ARVIN AVE	38.0653818903	-84.4994034061

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6167	H6167	532	GLEN ARVIN AVE	38.0659550828	-84.5016136192
HLX-6168	H6168	505	GLEN ARVIN AVE	38.0657734458	-84.5027848544
HLX-6169	H6169	260	PREAKNESS DR	38.0734422182	-84.4465895686
HLX-6170	H6170	0	SIR BARTON WAY	38.0263730484	-84.4221719353
HLX-6171	H6171	0	SIR BARTON WAY	38.0271747194	-84.4217297207
HLX-6172	H6172	270	OLD ROSEBUD RD	38.0283045296	-84.4211019592
HLX-6173	H6173	2416	SIR BARTON WAY	38.0292757424	-84.4205980645
HLX-6174	H6174	577	DOUGLAS AVE	38.0663844563	-84.4993671528
HLX-6175	H6175	440	SOUTHPOINT DR	37.9579201419	-84.5182503033
HLX-6176	H6176	417	SOUTHPOINT DR	37.9574848799	-84.5195168937
HLX-6177	H6177	392	SOUTHPOINT DR	37.9578065628	-84.5208500807
HLX-6178	H6178	3617	WALDEN DR	37.9806284326	-84.4982680622
HLX-6179	H6179	3609	WALDEN DR	37.9821791525	-84.496802486
HLX-6180	H6180	2012	CAVE HILL LN	38.008252855	-84.5639607495
HLX-6181	H6181	1351	NEWTOWN PIKE	38.082489536	-84.4915385704
HLX-6182	H6182	1825	IDLE BROOK WAY	38.0874897424	-84.5096734836
HLX-6183	H6183	2633	CORONADO RDG	38.0769382171	-84.5511827132
HLX-6184	H6184	257	SPRINTERS TRL	38.0782717047	-84.5527539268
HLX-6185	H6185	4525	LARGO LN	37.9570504156	-84.5176772302
HLX-6186	H6186	4433	LARGO LN	37.9586010253	-84.5188320532
HLX-6187	H6187	100	EXPORT ST	38.036582893	-84.5143106105
HLX-6188	H6188	270	MILL WOOD CV	38.0986662971	-84.5384622552
HLX-6189	H6189	596	GREEN VALLEY DR	38.0997012312	-84.5376253982
HLX-6190	H6190	628	GREEN VALLEY DR	38.1006009761	-84.5372144414
HLX-6191	H6191	2944	POLO CLUB BLVD	38.0233606914	-84.4052817682
HLX-6192	H6192	2304	MARKET GARDEN LN	38.0230317719	-84.4061326731
HLX-6193	H6193	2269	MARKET GARDEN LN	38.0227153426	-84.4076264187
HLX-6194	H6194	2228	MARKET GARDEN LN	38.0217461389	-84.4079728576
HLX-6195	H6195	2177	MARKET GARDEN LN	38.0203803904	-84.4080325668
HLX-6196	H6196	3016	ADWALTON RD	38.0194133186	-84.407238015
HLX-6197	H6197	2117	MARKET GARDEN LN	38.0188951158	-84.407558259
HLX-6198	H6198	408	LEWIS HARGETT CIR	37.9957308372	-84.5338163051
HLX-6199	H6199	444	LEWIS HARGETT CIR	37.9959211097	-84.5349521071
HLX-6200	H6200	259	S YARNALLTON PIKE	38.106879624	-84.5855823549

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HLX-6202	H6202	5301	GREENWICH PIKE	38.1512713835	-84.4031634294
HLX-6203	H6203	120	HARP INNIS RD	38.1478653167	-84.3924971993
HLX-6204	H6204	924	HARP INNIS RD	38.1459294572	-84.3862661872
HLX-6205	H6205	501	HARP INNIS RD	38.1438341961	-84.379776974
HLX-6206	H6206	371	HARP INNIS RD	38.1448719773	-84.3751095129
HLX-6207	H6207	1881	PLAUDIT PL	38.0178624311	-84.4171404624
HLX-6208	H6208	1868	PLAUDIT PL	38.0168561764	-84.4179338617
HLX-6209	H6209	1848	PLAUDIT PL	38.0159963355	-84.4185153393
HLX-6210	H6210	1844	PLAUDIT PL	38.0150312342	-84.4188349339
HLX-6211	H6211	2748	WIGGINGTON PT	38.1017831038	-84.5389467571
HLX-6212	H6212	2816	MAJESTIC VIEW WALK	38.1010303414	-84.5406956539
HLX-6213	H6213	2812	BELLE HAVEN PL	38.1018513329	-84.5411624661
HLX-6214	H6214	3144	MAJESTIC VIEW WALK	38.1022826256	-84.540099743
HLX-6216	H6216	3195	RIO DOSA DR	38.005070308	-84.4413069096
HLX-6217	H6217	3449	SPRINGLAKE DR	37.9901315334	-84.4929801976
HLX-6218	H6218	380	NICHOLASVILLE RD	37.9822708873	-84.527334319
HLX-6219	H6219	876	GOLDEN BELL PL	37.9469469623	-84.4915218725
HLX-6220	H6220	3701	NICHOLASVILLE RD	37.983976295	-84.5267684441
HLX-6221	H6221	250	HARRODSBURG RD	38.0171385099	-84.5483036504
HLX-6222	H6222	2424	HARRODSBURG RD	38.0182178193	-84.5467052969
HLX-6223	H6223	2405	HARRODSBURG RD	38.0192131823	-84.5456821643
HLX-6224	H6224	660	DANBY WOODS DR	38.0199416249	-84.4408447237
HLX-6225	H6225	3806	REAL QUIET LN	38.0115552799	-84.3853268602
HLX-6226	H6226	3844	REAL QUIET LN	38.0101684074	-84.3831475177
HLX-6227	H6227	2156	WINNING COLORS LN	38.0120108916	-84.3825958631
HLX-6228	H6228	1792	ALYSHEBA WAY	38.0160386201	-84.4221856984
HLX-6229	H6229	2688	PINK PIGEON PKY	38.0197141307	-84.4245096463
HLX-6230	H6230	50	MILLPOND RD	37.9760499393	-84.5403861843
HLX-6231	H6231	521	TOWNSEND RDG	37.9756098152	-84.5413741424
HLX-6233	H6233	553	TOWNSEND RDG	37.9757314038	-84.5426320803
HLX-6234	H6234	1749	COURTNEY AVE	38.0336835629	-84.4612946583
HLX-6235	H6235	1801	COURTNEY AVE	38.032861632	-84.4621294222
HLX-6236	H6236	3384	KEARNEY RD	38.1194799039	-84.5335484419
HLX-6237	H6237	3951	KEARNEY RD	38.1282196719	-84.5522762342

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HLX-6238	H6238	4116	KEARNEY RD	38.1305028298	-84.5554309504
HLX-6239	H6239	4424	KEARNEY RD	38.1368310401	-84.5629092374
HLX-6240	H6240	952	HAMMOCK OAK LN	37.9615718514	-84.5005143265
HLX-6241	H6241	916	HAMMOCK OAK LN	37.9609494736	-84.5023510319
HLX-6242	H6242	885	FIDDLER CREEK WAY	37.9600780459	-84.5030793374
HLX-6243	H6243	921	FIDDLER CREEK WAY	37.9617007993	-84.5032897893
HLX-6244	H6244	945	FIDDLER CREEK WAY	37.9627394437	-84.5029206051
HLX-6245	H6245	912	TEA OLIVE WAY	37.9458691267	-84.4924317545
HLX-6246	H6246	3120	ROUNDWAY DOWN LN	38.021576417	-84.405279809
HLX-6247	H6247	3068	ROUNDWAY DOWN LN	38.0202580478	-84.4058400999
HLX-6248	H6248	3041	HOUSE RD	38.0213902278	-84.4066471365
HLX-6249	H6249	3044	SEWANEE LN	38.0221384246	-84.4063197643
HLX-6250	H6250	2205	JAGGIE FOX WAY	38.0959857335	-84.5178929858
HLX-6251	H6251	2201	JAGGIE FOX WAY	38.0968860191	-84.5180754013
HLX-6252	H6252	136	HAYS BLVD	37.9825332028	-84.4209379708
HLX-6253	H6253	166	HAYS BLVD	37.9828145972	-84.419667187
HLX-6254	H6254	4317	WALNUT CREEK DR	37.982953087	-84.4207698089
HLX-6255	H6255	164	ACORN FALLS DR	37.9836139443	-84.420673682
HLX-6256	H6256	4308	TRADITION WAY	37.9842483258	-84.4194991078
HLX-6257	H6257	4325	TRADITION WAY	37.9837964435	-84.4189299693
HLX-6258	H6258	173	HAYS BLVD	37.9832269001	-84.4195337765
HLX-6259	H6259	2296	REMINGTON WAY	38.0960286873	-84.5083178396
HLX-6260	H6260	1812	STOCKTON WAY	38.0942567326	-84.508664336
HLX-6261	H6261	2288	PRESCOTT LN	38.0948968103	-84.5073948458
HLX-6262	H6262	2376	PRESCOTT LN	38.0942894908	-84.5054637635
HLX-6263	H6263	2445	PRESCOTT LN	38.0929462427	-84.5065446793
HLX-6264	H6264	2220	SONOMA PL	38.0940722673	-84.5067132643
HLX-6265	H6265	2249	PRESCOTT LN	38.0936645152	-84.5077204806
HLX-6266	H6266	3784	POLO CLUB BLVD	37.9973970283	-84.3943669842
HLX-6267	H6267	3744	POLO CLUB BLVD	37.9986751975	-84.3949002053
HLX-6268	H6268	3736	WARGRAVE WALK	37.9982624589	-84.3957033108
HLX-6269	H6269	1133	OATLANDS PK	37.9971500709	-84.3960730439
HLX-6270	H6270	3701	WARGRAVE WALK	37.9991325861	-84.396637026
HLX-6271	H6271	540	WALNUT HILL RD	37.9681650979	-84.4225966462

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6272	H6272	855	WALNUT HILL RD	37.9633593961	-84.4282012918
HLX-6273	H6273	1010	WALNUT HILL RD	37.9597486449	-84.4302969311
HLX-6274	H6274	1101	WALNUT HILL RD	37.9578722637	-84.4313777527
HLX-6275	H6275	3725	RIDGE VIEW WAY	37.9912642247	-84.41603266
HLX-6276	H6276	3740	RIDGE VIEW WAY	37.990944316	-84.4150629062
HLX-6277	H6277	3920	PALOMAR COVE LN	38.0027148293	-84.5759516964
HLX-6278	H6278	420	MEADOWCREST PK	37.9647877158	-84.525675949
HLX-6279	H6279	504	MEADOWCREST PK	37.9641690445	-84.5240922632
HLX-6280	H6280	528	MEADOWCREST PK	37.9637382417	-84.5229176216
HLX-6281	H6281	481	ALDERBROOK WAY	37.9652739871	-84.5235238039
HLX-6282	H6282	50	ALDERBROOK WAY	37.9649829539	-84.5225517162
HLX-6283	H6283	245	BITTERSWEET WAY	37.9659749884	-84.5247693719
HLX-6284	H6284	4032	DAISY HILL LN	37.9707460264	-84.5537836072
HLX-6285	H6285	145	MCCONNELLS TRCE	38.0876105133	-84.559684617
HLX-6286	H6286	4216	MATTEA CT	37.9916865396	-84.5788548987
HLX-6287	H6287	2060	TWAIN RIDGE DR	37.9909166173	-84.5797321197
HLX-6288	H6288	2109	TWAIN RIDGE DR	37.9925436307	-84.580631433
HLX-6289	H6289	4228	DESDEMONA WAY	37.9913552692	-84.5808223798
HLX-6290	H6290	4265	DESDEMONA WAY	37.98984591	-84.5802355302
HLX-6291	H6291	2141	MAURA TRCE	38.0052627308	-84.5741363225
HLX-6292	H6292	381	W LOUDON AVE	38.0634236769	-84.4966459015
HLX-6293	H6293	337	LONG BRANCH LN	38.0873261777	-84.5624508792
HLX-6294	H6294	173	MCCONNELLS TRCE	38.0867792129	-84.5606153021
HLX-6295	H6295	253	LONG BRANCH LN	38.0879320738	-84.5649417871
HLX-6296	H6296	188	BLUE HERON PL	38.0877945707	-84.5640617884
HLX-6297	H6297	309	LONG BRANCH LN	38.0873399204	-84.563298958
HLX-6298	H6298	2445	ASTARITA WAY	38.0260955631	-84.4304031506
HLX-6299	H6299	500	MAGNOLIA GARDENS PL	37.9459160669	-84.4898797154
HLX-6300	H6300	5021	MAGNOLIA GARDENS PL	37.9457000048	-84.4889534185
HLX-6301	H6301	841	CALYPSO BREEZE DR	37.9450539457	-84.4902955644
HLX-6302	H6302	621	GEORGETOWN ST	38.0650193846	-84.5032502742
HLX-6303	H6303	2459	SIR BARTON WAY	38.0316389887	-84.4208256113
HLX-6304	H6304	2499	SIR BARTON WAY	38.0324587031	-84.4212230682
HLX-6305	H6305	2509	SIR BARTON WAY	38.033207268	-84.4214703897

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6306	H6306	2555	SIR BARTON WAY	38.0343253891	-84.4220100894
HLX-6307	H6307	2541	SIR BARTON WAY	38.0348830494	-84.4225926226
HLX-6308	H6308	0	SIR BARTON WAY	38.0354638682	-84.4234743335
HLX-6309	H6309	340	SPRINGLAKE DR	37.9897149088	-84.4942350533
HLX-6310	H6310	1017	LAKEFRONT DR	37.9892899156	-84.4931342901
HLX-6311	H6311	0	RUCCIO WAY	37.9975816659	-84.5292605926
HLX-6312	H6312	247	RUCCIO WAY	37.9970433478	-84.528308435
HLX-6313	H6313	243	RUCCIO WAY	37.996593562	-84.5289282052
HLX-6314	H6314	20	HAYS BLVD	37.9835411832	-84.4184677834
HLX-6315	H6315	4468	WALNUT CREEK DR	37.9837729239	-84.4167915011
HLX-6316	H6316	312	HAYS BLVD	37.9825599445	-84.4148798107
HLX-6317	H6317	336	HAYS BLVD	37.9822775019	-84.4135822185
HLX-6318	H6318	368	HAYS BLVD	37.9828423966	-84.4122283379
HLX-6319	H6319	292	JANE BRIGGS AVE	37.9823550882	-84.4113620278
HLX-6320	H6320	4425	LEVI TODD BLVD	37.9812687508	-84.4123801271
HLX-6321	H6321	257	RICHARDSON PL	37.9806633666	-84.4118822637
HLX-6322	H6322	288	RICHARDSON PL	37.9817357118	-84.4106063326
HLX-6323	H6323	2203	BAHAMA RD	38.0288458023	-84.3849113166
HLX-6324	H6324	2652	MICHELLE PK	38.0865138682	-84.5451439953
HLX-6325	H6325	2577	MICHELLE PK	38.0867604437	-84.5459323487
HLX-6326	H6326	2573	BUCK LN	38.0876070934	-84.5455920363
HLX-6327	H6327	260	BUCK LN	38.0878221507	-84.5464001455
HLX-6328	H6328	272	FERNDALE PASS	38.0871074268	-84.5467171367
HLX-6329	H6329	2629	SHANNON TRCE	38.0875054718	-84.54770004
HLX-6330	H6330	2385	HUGUENARD DR	38.0052773899	-84.5226921804
HLX-6331	H6331	2321	SIR BARTON WAY	38.0208129101	-84.4221374984
HLX-6332	H6332	2321	SIR BARTON WAY	38.0205218438	-84.4225710792
HLX-6333	H6333	1895	VENDOR WAY	38.019979545	-84.4235206578
HLX-6334	H6334	204	STALLION RUN	38.0798103011	-84.5515283966
HLX-6335	H6335	270	SILVER MARE CT	38.079448777	-84.5533424284
HLX-6336	H6336	2805	MICHELLE PK	38.0892719235	-84.5475348048
HLX-6337	H6337	2844	MICHELLE PK	38.0890055944	-84.5485261999
HLX-6338	H6338	225	LUCILLE DR	38.0888004177	-84.5476746447
HLX-6339	H6339	193	LUCILLE DR	38.0882956623	-84.5486231803

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6340	H6340	2644	BUCK LN	38.0882990942	-84.5475948877
HLX-6341	H6341	1209	JEKYLL DR	38.021701518	-84.5668228413
HLX-6342	H6342	3216	HEMINGWAY LN	38.0211997736	-84.568401113
HLX-6343	H6343	3196	HEMINGWAY LN	38.0207669477	-84.567303201
HLX-6344	H6344	3173	HEMINGWAY LN	38.020373465	-84.5660495571
HLX-6345	H6345	3144	HEMINGWAY LN	38.0200897166	-84.5646931298
HLX-6346	H6346	1208	RAEFORD LN	38.0209963133	-84.565287598
HLX-6347	H6347	3132	HEMINGWAY LN	38.0207915169	-84.5643195636
HLX-6348	H6348	2997	HEMINGWAY LN	38.022181535	-84.5638447438
HLX-6349	H6349	2977	HEMINGWAY LN	38.0223872842	-84.5650965821
HLX-6350	H6350	905	CALYPSO BREEZE DR	37.9469188341	-84.4890343531
HLX-6351	H6351	1028	KIAWAH DR	37.9468002219	-84.4875343804
HLX-6352	H6352	1060	KIAWAH DR	37.9479706559	-84.486195357
HLX-6353	H6353	100	FIRETHORN PL	37.94843724	-84.4872580226
HLX-6354	H6354	965	FIRETHORN DR	37.949584094	-84.4865697308
HLX-6355	H6355	1010	MONARCH ST	38.0218618793	-84.5562923224
HLX-6356	H6356	3769	WINTHROP DR	37.9741180451	-84.5456141223
HLX-6357	H6357	3805	WINTHROP DR	37.9731268641	-84.5460166268
HLX-6358	H6358	720	WOODHAVEN PL	37.9733066645	-84.5471989185
HLX-6359	H6359	748	WOODHAVEN PL	37.9735648596	-84.5482467134
HLX-6360	H6360	3813	EVERETTS DALE	37.9739850288	-84.5492969886
HLX-6361	H6361	4549	PARSONS LN	37.9830383011	-84.4084254782
HLX-6362	H6362	436	WELSH PK	37.9848728538	-84.4093889438
HLX-6363	H6363	4520	PARSONS LN	37.9838872516	-84.4088421851
HLX-6364	H6364	450	PARSONS LN	37.9845464351	-84.4082009614
HLX-6365	H6365	4437	RIVARD LN	37.9852236214	-84.4074501136
HLX-6366	H6366	548	VONBRYAN TRCE	37.9851625323	-84.4050065028
HLX-6367	H6367	580	VONBRYAN TRCE	37.9859077046	-84.4041966698
HLX-6368	H6368	637	VONBRYAN TRCE	37.9859649252	-84.4051992544
HLX-6369	H6369	669	VONBRYAN TRCE	37.9853750727	-84.406135616
HLX-6370	H6370	4521	CLOONEY PASS	37.9849984926	-84.4039662987
HLX-6371	H6371	676	STANSBERRY CV	37.9843215273	-84.4044661069
HLX-6372	H6372	1709	BETTYS CT	38.0628350941	-84.4617443351
HLX-6373	H6373	2720	WIGGINGTON PT	38.1014612854	-84.5378778562

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6374	H6374	644	GREEN VALLEY DR	38.1010900834	-84.5367863996
HLX-6375	H6375	3016	SANDERSVILLE RD	38.1029449763	-84.5386441776
HLX-6376	H6376	3040	SANDERSVILLE RD	38.1041067879	-84.5380999126
HLX-6377	H6377	3068	SANDERSVILLE RD	38.1051958212	-84.5375574424
HLX-6378	H6378	310	SANDERSVILLE RD	38.1067997387	-84.5367590495
HLX-6379	H6379	3132	SANDERSVILLE RD	38.1082198084	-84.5360769416
HLX-6380	H6380	2977	PRICHARD DR	38.1062681184	-84.535664826
HLX-6381	H6381	309	GILMORE TRCE	38.1060076016	-84.5347702073
HLX-6382	H6382	3112	GILMORE TRCE	38.1067721991	-84.5345969303
HLX-6383	H6383	3149	GILMORE TRCE	38.1078213178	-84.5351422958
HLX-6384	H6384	129	OCOEE CT	38.090592699	-84.5612215706
HLX-6385	H6385	104	OCOEE CT	38.0904016153	-84.5601073623
HLX-6386	H6386	0	SIR BARTON WAY	38.0236405655	-84.4233041099
HLX-6387	H6387	0	SIR BARTON WAY	38.0218692348	-84.4215792951
HLX-6388	H6388	1075	STAR SHOOT PKY	38.0238549878	-84.4255339755
HLX-6389	H6389	2197	DRUMMOND DR	38.1046906927	-84.5146230113
HLX-6390	H6390	2333	SPURR RD	38.1042092424	-84.5120676025
HLX-6391	H6391	230	SPURR RD	38.1039935667	-84.5107136905
HLX-6392	H6392	2260	SPURR RD	38.1040032891	-84.5091760756
HLX-6393	H6393	2521	LANGSTANE LN	38.1050709314	-84.5091756777
HLX-6394	H6394	2041	DRUMMOND DR	38.1062676109	-84.5086596153
HLX-6395	H6395	250	MORAY PL	38.1061506673	-84.5098847656
HLX-6396	H6396	2108	DRUMMOND DR	38.1057929682	-84.5111635668
HLX-6397	H6397	2149	DRUMMOND DR	38.1053966153	-84.5127069173
HLX-6398	H6398	2180	DRUMMOND DR	38.1050477929	-84.5140306496
HLX-6399	H6399	2501	GLASCOW LN	38.1046774141	-84.5131725779
HLX-6400	H6400	2562	MORAY PL	38.1047518638	-84.5106433901
HLX-6401	H6401	1075	STAR SHOOT PKY	38.0243111317	-84.4255441148
HLX-6402	H6402	2481	OGDEN WAY	38.0251075562	-84.4264265218
HLX-6403	H6403	2438	OGDEN WAY	38.026798107	-84.4276801306
HLX-6404	H6404	2433	ROCKMINSTER RD	38.0264217303	-84.4284991346
HLX-6405	H6405	976	STAR GAZE DR	38.0248569119	-84.4278050953
HLX-6406	H6406	985	VILLAGE GREEN AVE	38.0243992125	-84.4269191606
HLX-6407	H6407	970	VILLAGE GREEN AVE	38.0236939785	-84.4276195635

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6408	H6408	196	MCCONNELLS TRCE	38.0859338688	-84.56132901
HLX-6409	H6409	245	MCCONNELLS TRCE	38.084454572	-84.5625368138
HLX-6410	H6410	445	MCCONNELLS TRCE	38.0862535177	-84.5628064548
HLX-6411	H6411	392	MCCONNELLS TRCE	38.0863280074	-84.5646756773
HLX-6412	H6412	304	TRAILWOOD LN	38.0854991459	-84.5622223073
HLX-6413	H6413	3052	TRAILWOOD LN	38.0855633479	-84.5635173636
HLX-6414	H6414	3052	NEW RIVER PL	38.0848611403	-84.5641506848
HLX-6415	H6415	2551	SUN SEEKER CT	38.0068795546	-84.5269055324
HLX-6416	H6416	2529	SUN SEEKER CT	38.0077486346	-84.5266497282
HLX-6417	H6417	2321	CROSS CREEK TRCE	38.0204158837	-84.3973553405
HLX-6418	H6418	3172	CHERRY MEADOW PATH	38.021127824	-84.3967326732
HLX-6419	H6419	3204	CHERRY MEADOW PATH	38.0201935903	-84.3959390979
HLX-6420	H6420	3173	SCOTTISH TRCE	38.023517728	-84.4000050786
HLX-6421	H6421	3205	SCOTTISH TRCE	38.0224248082	-84.4000628187
HLX-6422	H6422	3261	SCOTTISH TRCE	38.0215039271	-84.3987333678
HLX-6423	H6423	3061	MANY OAKS PK	38.0230750594	-84.3987982504
HLX-6424	H6424	3309	SCOTTISH TRCE	38.0222274379	-84.3975773366
HLX-6425	H6425	3128	TIMBERNECK CV	38.0237755539	-84.3973298077
HLX-6426	H6426	3349	SCOTTISH TRCE	38.0231942306	-84.3965114056
HLX-6427	H6427	348	OUTRIDER WAY	37.9769108576	-84.5398592972
HLX-6428	H6428	360	LOCHDALE TER	37.9768731758	-84.5384704254
HLX-6429	H6429	3056	PRICHARD DR	38.1067843187	-84.5397328611
HLX-6430	H6430	801	WINDING OAK TRL	38.1069681999	-84.5385639454
HLX-6431	H6431	816	WINDING OAK TRL	38.1076182989	-84.5384716723
HLX-6432	H6432	801	WHITE WOOD FLAT	38.1070858406	-84.5376074472
HLX-6433	H6433	833	WHITE WOOD FLAT	38.1080779469	-84.5371165538
HLX-6434	H6434	2045	GLADE LN	38.0036049385	-84.5754879968
HLX-6435	H6435	4913	BRIAR HILL RD	38.0677754083	-84.3432307379
HLX-6436	H6436	4978	BRIAR HILL RD	38.0682516466	-84.3394003422
HLX-6437	H6437	5167	BRIAR HILL RD	38.0687054764	-84.3367678095
HLX-6438	H6438	5187	BRIAR HILL RD	38.0690528676	-84.3340129657
HLX-6439	H6439	797	WYNDHAM HILLS DR	37.9725831532	-84.5499660951
HLX-6440	H6440	753	WYNDHAM HILLS DR	37.9720114614	-84.5486853976
HLX-6441	H6441	740	WYNDHAM HILLS DR	37.9717500947	-84.5474139706

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 179 of 252
HLX-6443	H6443	3825	WINTHROP DR	37.9723839796	-84.545910446
HLX-6444	H6444	724	ROSSLYNS DALE	37.9725636282	-84.5472754953
HLX-6445	H6445	756	ROSSLYNS DALE	37.9728913635	-84.5484450524
HLX-6446	H6446	3837	EVERETTS DALE	37.9732337551	-84.5496727853
HLX-6447	H6447	3637	WINTHROP DR	37.9788072358	-84.5429251485
HLX-6448	H6448	3765	RIDGE VIEW WAY	37.9900892112	-84.4141074248
HLX-6449	H6449	3796	RIDGE VIEW WAY	37.9889055705	-84.4129298889
HLX-6450	H6450	3076	PRICHARD DR	38.1067017558	-84.5404724243
HLX-6451	H6451	3029	SHADY KNOLL REST	38.1073688772	-84.5400462007
HLX-6452	H6452	3020	RIVER RUN TRL	38.1079135384	-84.5392295459
HLX-6453	H6453	3016	MADDIE LN	38.1085869156	-84.5388628455
HLX-6454	H6454	856	WINDING OAK TRL	38.1088132296	-84.5379407527
HLX-6455	H6455	897	WINDING OAK TRL	38.1092774398	-84.5384444363
HLX-6456	H6456	2280	MAGGARD DR	38.0874680625	-84.5161390351
HLX-6457	H6457	2285	MAGGARD DR	38.0877693869	-84.5154105355
HLX-6458	H6458	921	VILLAGE GREEN AVE	38.0223043903	-84.4292265984
HLX-6459	H6459	2565	FLYING EBONY DR	38.0214508713	-84.4301423311
HLX-6460	H6460	927	STAR SHOOT PKY	38.0214901678	-84.4281011971
HLX-6463	H6463	353	HAYS BLVD	37.9826619667	-84.4131827943
HLX-6464	H6464	232	JANE BRIGGS AVE	37.9799445437	-84.4134872513
HLX-6465	H6465	233	RICHARDSON PL	37.9794889289	-84.4126080998
HLX-6466	H6466	109	TOWNE CENTER DR	38.0687158195	-84.5287639967
HLX-6467	H6467	109	LOUIE PL	38.0676432288	-84.5271207212
HLX-6468	H6468	1745	SHARKEY WAY	38.0679132751	-84.5289115531
HLX-6469	H6469	1752	SHARKEY WAY	38.0683617314	-84.5295956768
HLX-6470	H6470	1768	SHARKEY WAY	38.0687699535	-84.5304600717
HLX-6471	H6471	128	TOWNE WALK	38.0681466331	-84.5318645625
HLX-6472	H6472	137	TOWNE CENTER DR	38.0670453183	-84.5307343731
HLX-6473	H6473	158	LOUIE PL	38.0661628039	-84.5291514617
HLX-6474	H6474	170	SHARKEY WAY	38.067213043	-84.5277205415
HLX-6475	H6475	4432	WALNUT CREEK DR	37.9826012231	-84.4177804671
HLX-6476	H6476	4388	WALNUT CREEK DR	37.9816448601	-84.4191961671
HLX-6477	H6477	333	HUMMINGBIRD LN	38.0301904604	-84.520687571
HLX-6478	H6478	1559	JACANA DR	38.0290929707	-84.5196557346

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 180 of 252
HLX-6479	H6479	337	MOCKINGBIRD LN	38.0297953931	-84.5217816876
HLX-6480	H6480	1581	JACANA DR	38.0284807523	-84.5205884248
HLX-6481	H6481	1574	BLUEBIRD LN	38.0267009481	-84.5184810544
HLX-6482	H6482	478	BOB-O-LINK DR	38.0288547429	-84.5226683957
HLX-6483	H6483	378	BOB-O-LINK DR	38.0265367076	-84.5205349912
HLX-6484	H6484	354	BOB-O-LINK DR	38.0253218313	-84.5194045055
HLX-6485	H6485	717	ALLENRIDGE PT	38.0644938972	-84.5584558717
HLX-6486	H6486	2433	FLYING EBONY DR	38.0265043974	-84.4326690144
HLX-6487	H6487	2421	FLYING EBONY DR	38.0270449532	-84.4325879567
HLX-6488	H6488	240	HEALY LN	38.027335966	-84.4317915248
HLX-6489	H6489	2421	ASTARITA WAY	38.0273574853	-84.4307750208
HLX-6490	H6490	2364	ROCKMINSTER RD	38.0276974582	-84.430365566
HLX-6491	H6491	2421	FRANKS WAY	38.0268451526	-84.4296803563
HLX-6492	H6492	2389	ROCKMINSTER RD	38.0279628755	-84.4293141814
HLX-6493	H6493	2417	ROCKMINSTER RD	38.0272550215	-84.4288866651
HLX-6494	H6494	2421	OGDEN WAY	38.0277056559	-84.4279565162
HLX-6495	H6495	2405	OGDEN WAY	38.0283694654	-84.4281761282
HLX-6496	H6496	3673	POLO CLUB BLVD	38.001991717	-84.3968867891
HLX-6497	H6497	3645	POLO CLUB BLVD	38.0030412691	-84.3975077217
HLX-6498	H6498	120	BRICK HOUSE LN	38.0016871399	-84.3962682712
HLX-6499	H6499	3680	STOLEN HORSE TRCE	38.0022233216	-84.3952747587
HLX-6500	H6500	3682	STOLEN HORSE TRCE	38.0027333355	-84.394546702
HLX-6501	H6501	3732	STOLEN HORSE TRCE	38.003768466	-84.3937525383
HLX-6502	H6502	1240	ANGUS TRL	38.0041223398	-84.3945810878
HLX-6503	H6503	1221	ANGUS TRL	38.0035095568	-84.395210805
HLX-6504	H6504	1217	SILO LN	38.0041694127	-84.3959872279
HLX-6505	H6505	3608	STOLEN HORSE TRCE	38.0044199374	-84.3968500031
HLX-6506	H6506	3633	STOLEN HORSE TRCE	38.0036524429	-84.3966666884
HLX-6507	H6507	3660	STOLEN HORSE TRCE	38.0026481146	-84.3961334071
HLX-6508	H6508	217	ELM TREE LN	38.0460550437	-84.4895690761
HLX-6509	H6509	2618	LONGLEAF PL	38.0055944601	-84.5273717033
HLX-6510	H6510	2025	LEESTOWN RD	38.0722676516	-84.5337618897
HLX-6511	H6511	2709	RED CLOVER LN	38.102288755	-84.525936023
HLX-6512	H6512	2756	RED CLOVER LN	38.1027260318	-84.5274071391

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM018_012519 Latitude	Longitude Page 181 of 252
HLX-6513	H6513	2784	RED CLOVER LN	38.1029564865	-84.5286124976
HLX-6514	H6514	2820	RED CLOVER LN	38.1034848842	-84.5297779225
HLX-6515	H6515	2753	GOLDEN ROD LN	38.1038104005	-84.5283941477
HLX-6516	H6516	2733	GOLDEN ROD LN	38.103753836	-84.527475747
HLX-6517	H6517	2701	GOLDEN ROD LN	38.1040213244	-84.5261484628
HLX-6518	H6518	1092	MOUNTAIN LAUREL WAY	38.1046744615	-84.5265201893
HLX-6519	H6519	1129	MOUNTAIN LAUREL WAY	38.104350958	-84.5276448728
HLX-6520	H6520	1149	MOUNTAIN LAUREL WAY	38.1045235912	-84.5286859035
HLX-6521	H6521	1157	MOUNTAIN LAUREL WAY	38.1044924316	-84.529263655
HLX-6522	H6522	1457	DAY LILY DR	38.10515076	-84.5289326976
HLX-6523	H6523	1485	DAY LILY DR	38.1060992972	-84.5284759223
HLX-6524	H6524	1073	LUCILLE DR	38.1051874873	-84.5277712559
HLX-6525	H6525	2811	SPURR RD	38.1060516805	-84.5276084255
HLX-6526	H6526	1032	MOUNTAIN LAUREL WAY	38.1032845012	-84.5256868312
HLX-6527	H6527	800	FAITH ST	38.0653608383	-84.4834211276
HLX-6528	H6528	2708	ROSEBUD RD	38.0279179739	-84.4197673779
HLX-6529	H6529	2720	ROSEBUD RD	38.0270021138	-84.4188973892
HLX-6530	H6530	2488	EASTWAY DR	38.0088491598	-84.5270901299
HLX-6531	H6531	2504	EASTWAY DR	38.0078472569	-84.5276017861
HLX-6532	H6532	1750	SUMMERHILL DR	37.9679633387	-84.4595765539
HLX-6533	H6533	3412	SQUIRE OAK DR	37.9662980868	-84.4593673327
HLX-6534	H6534	3112	PRICHARD DR	38.1071049177	-84.5417751342
HLX-6535	H6535	1089	WINDING OAK TRL	38.1069303496	-84.5426172509
HLX-6536	H6536	1052	WINDING OAK TRL	38.1079577102	-84.5420949982
HLX-6537	H6537	3061	SHADY KNOLL REST	38.107721138	-84.5411502904
HLX-6538	H6538	3064	RIVER RUN TRL	38.1083847414	-84.540760002
HLX-6539	H6539	1016	WINDING OAK TRL	38.1089423314	-84.5415962365
HLX-6540	H6540	3064	MADDIE LN	38.1090794031	-84.5404169677
HLX-6541	H6541	977	WINDING OAK TRL	38.1100242316	-84.5410648336
HLX-6542	H6542	933	WINDING OAK TRL	38.1098001993	-84.5402157658
HLX-6543	H6543	3861	WINTHROP DR	37.9707994935	-84.5456421857
HLX-6544	H6544	3897	WINTHROP DR	37.9697986585	-84.5454541333
HLX-6545	H6545	3929	WINTHROP DR	37.9688235098	-84.5452541593
HLX-6547	H6547	212	EASTIN RD	38.0659615689	-84.4575435694

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6548	H6548	311	SIERRA DR	38.0665199402	-84.454986135
HLX-6549	H6549	3128	MAJESTIC VIEW WALK	38.1030457953	-84.5397330731
HLX-6550	H6550	3105	MAJESTIC VIEW WALK	38.1040153527	-84.5392608611
HLX-6551	H6551	3085	MAJESTIC VIEW WALK	38.1049428188	-84.5387929943
HLX-6552	H6552	3044	MAJESTIC VIEW WALK	38.1055325705	-84.5395854979
HLX-6553	H6553	2989	MAJESTIC VIEW WALK	38.1051885426	-84.5420728431
HLX-6554	H6554	2972	MAJESTIC VIEW WALK	38.1049251393	-84.5432735115
HLX-6555	H6555	2936	MAJESTIC VIEW WALK	38.1037626621	-84.5443668196
HLX-6556	H6556	2889	MAJESTIC VIEW WALK	38.1021877385	-84.5446403449
HLX-6557	H6557	2865	MAJESTIC VIEW WALK	38.1018065587	-84.5433901775
HLX-6558	H6558	2845	MAJESTIC VIEW WALK	38.1014832418	-84.54231926
HLX-6559	H6559	2840	BELLE HAVEN PL	38.1022227722	-84.5426675377
HLX-6560	H6560	2872	BELLE HAVEN PL	38.1028012942	-84.5445333396
HLX-6561	H6561	2848	JENNA REST	38.1030535605	-84.5425680708
HLX-6562	H6562	2824	JENNA REST	38.1026810722	-84.5412532085
HLX-6563	H6563	701	CORBIN WALK	38.1035664414	-84.5434333272
HLX-6564	H6564	2865	BAY COLONY LN	38.1044539204	-84.5418771262
HLX-6565	H6565	2840	BAY COLONY LN	38.1035385888	-84.5411372881
HLX-6566	H6566	2828	SATIN LEAF PK	38.1042867604	-84.5407303082
HLX-6567	H6567	2848	SATIN LEAF PK	38.1051805353	-84.5410542578
HLX-6568	H6568	4628	MARCUS TRL	37.9828748768	-84.4036183012
HLX-6569	H6569	4593	WILLMAN WAY	37.9831133227	-84.4024244743
HLX-6570	H6570	612	STANSBERRY CV	37.984084318	-84.4030732089
HLX-6571	H6571	712	STANSBERRY CV	37.9835944866	-84.4034225996
HLX-6572	H6572	4524	PEBBLE BROOK CIR	37.9836612343	-84.4050325127
HLX-6573	H6573	1135	MONARCH ST	38.0189000952	-84.5573484915
HLX-6574	H6574	1121	MONARCH ST	38.0191842877	-84.5560554385
HLX-6575	H6575	1121	MONARCH ST	38.0195956028	-84.5553995147
HLX-6576	H6576	4601	MARCUS TRL	37.9830830467	-84.4049676247
HLX-6577	H6577	4476	MARCUS TRL	37.9835937665	-84.4058588307
HLX-6578	H6578	4437	MARCUS TRL	37.9842681536	-84.4071315539
HLX-6579	H6579	489	LANARKSHIRE PL	37.9835758149	-84.4070414547
HLX-6580	H6580	521	LANARKSHIRE PL	37.983193969	-84.4061923464
HLX-6581	H6581	552	LANARKSHIRE PL	37.9823929796	-84.4054647595

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6582	H6582	4520	LARKHILL LN	37.9815809407	-84.4065489991
HLX-6583	H6583	411	LANARKSHIRE PL	37.9821337719	-84.407319962
HLX-6584	H6584	445	LANARKSHIRE PL	37.9826923462	-84.4068584175
HLX-6585	H6585	4569	PARSONS LN	37.9830507457	-84.4075708624
HLX-6586	H6586	361	SCOTTSDALE CIR	38.0766721146	-84.4792012458
HLX-6587	H6587	385	SCOTTSDALE CIR	38.0760138719	-84.4782786975
HLX-6588	H6588	1504	RODNEY PL	38.0753966849	-84.477597223
HLX-6589	H6589	109	LEMON RUE WAY	37.9669474824	-84.4991116018
HLX-6590	H6590	1025	LEMON RUE WAY	37.9672336495	-84.4985206209
HLX-6591	H6591	2365	MULUNDY WAY	38.0961273392	-84.5268115327
HLX-6592	H6592	2328	MULUNDY WAY	38.0963174592	-84.5253689884
HLX-6593	H6593	916	APPLECROSS DR	38.0965320257	-84.5240612165
HLX-6594	H6594	953	APPLECROSS DR	38.0974884108	-84.5243625231
HLX-6595	H6595	2320	LONAN CT	38.0970767097	-84.5254070805
HLX-6596	H6596	2348	LONAN CT	38.0969180041	-84.5265212727
HLX-6597	H6597	2399	PARIS PIKE	38.0813004998	-84.4467919877
HLX-6598	H6598	102	SWIGERT AVE	38.0851553907	-84.4413412603
HLX-6599	H6599	3011	PARIS PIKE	38.0925372563	-84.4298811693
HLX-6600	H6600	3153	PARIS PIKE	38.0945247591	-84.4268570133
HLX-6601	H6601	103	HUGHES LN	38.1231477312	-84.3847408379
HLX-6602	H6602	4393	JASMINE ROSE WAY	37.9665491359	-84.4979979846
HLX-6603	H6603	4360	JASMINE ROSE WAY	37.9670048884	-84.4968452485
HLX-6604	H6604	4296	JASMINE ROSE WAY	37.9688347083	-84.4978826508
HLX-6605	H6605	4248	JASMINE ROSE WAY	37.968578522	-84.4995024615
HLX-6606	H6606	4237	JASMINE ROSE WAY	37.9679479306	-84.499634574
HLX-6607	H6607	1028	BELLA DONA RD	37.9679961166	-84.4984247572
HLX-6608	H6608	1052	BELLA DONA RD	37.9681706104	-84.4975236894
HLX-6609	H6609	1060	LEMON RUE WAY	37.9674670862	-84.4973432394
HLX-6610	H6610	4512	WINDSTAR WAY	37.9562533121	-84.5126323715
HLX-6611	H6611	4540	WINDSTAR WAY	37.9554773226	-84.5131372661
HLX-6612	H6612	4564	WINDSTAR WAY	37.9557634863	-84.5143607221
HLX-6613	H6613	4584	WINDSTAR WAY	37.9561276617	-84.5152750435
HLX-6614	H6614	4608	WINDSTAR WAY	37.9568050542	-84.5159887838
HLX-6615	H6615	4628	WINDSTAR WAY	37.9576497425	-84.5164446905

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6616	H6616	4652	WINDSTAR WAY	37.9585234507	-84.5168182683
HLX-6617	H6617	4688	WINDSTAR WAY	37.9590914116	-84.5154377105
HLX-6618	H6618	608	DELTINO CT	37.958480283	-84.5152309273
HLX-6619	H6619	4712	WINDSTAR WAY	37.9587006457	-84.5143424674
HLX-6620	H6620	4517	BILTMORE PL	37.957977329	-84.5138448924
HLX-6621	H6621	520	RAVENNA LN	37.9565651707	-84.5141192262
HLX-6622	H6622	50	RAVENNA LN	37.9571535655	-84.5150657316
HLX-6623	H6623	4485	LOGANS FORT LN	37.9778793972	-84.4117453353
HLX-6624	H6624	224	EMILIE LN	37.978765601	-84.4119510136
HLX-6625	H6625	20	EMILIE LN	37.9779297413	-84.4129345961
HLX-6626	H6626	20	RICHARDSON PL	37.9784283781	-84.4137506221
HLX-6627	H6627	4417	LOGANS FORT LN	37.9791017844	-84.4145261448
HLX-6628	H6628	2680	MILITARY PIKE	37.9974902469	-84.5955506686
HLX-6629	H6629	2801	MILITARY PIKE	37.99886929	-84.600325712
HLX-6630	H6630	3071	MILITARY PIKE	38.0002392349	-84.6051025924
HLX-6631	H6631	3170	MILITARY PIKE	38.0019787836	-84.6110544333
HLX-6632	H6632	3501	MILITARY PIKE	38.0038341568	-84.61727173
HLX-6633	H6633	3660	MILITARY PIKE	38.0048336995	-84.6201346006
HLX-6634	H6634	3726	MILITARY PIKE	38.0061677788	-84.6240712042
HLX-6635	H6635	400	MILITARY PIKE	38.0081768058	-84.6299224293
HLX-6636	H6636	4566	WILLMAN WAY	37.9840937037	-84.401869523
HLX-6637	H6637	4538	WILLMAN WAY	37.9848891887	-84.4025143481
HLX-6638	H6638	4508	WILLMAN WAY	37.9857091733	-84.4031673712
HLX-6639	H6639	4488	WILLMAN WAY	37.9866315044	-84.4025360289
HLX-6640	H6640	4140	SPERLING DR	37.9873219636	-84.4019480277
HLX-6641	H6641	4120	SPERLING DR	37.9885598486	-84.4023967577
HLX-6642	H6642	4112	SPERLING DR	37.9891658346	-84.4037153498
HLX-6643	H6643	4481	TURTLE CREEK WAY	37.9888055372	-84.4046498187
HLX-6644	H6644	4468	TURTLE CREEK WAY	37.9885363447	-84.4035212607
HLX-6645	H6645	4452	TURTLE CREEK WAY	37.9880422179	-84.4030281727
HLX-6646	H6646	4417	TURTLE CREEK WAY	37.9871671816	-84.4039023835
HLX-6647	H6647	617	MANNINGTON PL	38.0002478562	-84.5452081736
HLX-6648	H6648	4504	TURTLE CREEK WAY	37.988240864	-84.4056915949
HLX-6649	H6649	4316	TURTLE CREEK CV	37.9879089153	-84.406282504

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6650	H6650	4404	TURTLE CREEK WAY	37.9871461396	-84.4049778313
HLX-6651	H6651	4377	RIVARD LN	37.9870601388	-84.4060589879
HLX-6652	H6652	4357	RIVARD LN	37.9874706712	-84.4071458407
HLX-6653	H6653	4349	RIVARD LN	37.9877613165	-84.407701075
HLX-6654	H6654	4316	RIVARD LN	37.9868463034	-84.4084618402
HLX-6655	H6655	4417	RIVARD LN	37.9861719096	-84.4075800612
HLX-6656	H6656	4397	RIVARD LN	37.9863250299	-84.4064606139
HLX-6657	H6657	326	JANE BRIGGS AVE	37.9831078141	-84.4102095171
HLX-6658	H6658	321	RICHARDSON PL	37.9827570378	-84.4095741549
HLX-6659	H6659	312	ISABELLA LN	37.9820465332	-84.4087588835
HLX-6660	H6660	40	LANARKSHIRE PL	37.9817051265	-84.4080799215
HLX-6661	H6661	30	ISABELLA LN	37.9815046989	-84.4093743175
HLX-6662	H6662	587	GOLDON TROPHY TRL	37.9773712278	-84.5424646604
HLX-6663	H6663	525	GOLDON TROPHY TRL	37.9774926322	-84.5401202111
HLX-6664	H6664	325	HAYS BLVD	37.9826804914	-84.4142888674
HLX-6665	H6665	4352	STUART HALL BLVD	37.9832567343	-84.4139241353
HLX-6666	H6666	4385	STUART HALL BLVD	37.9838127206	-84.4126429347
HLX-6667	H6667	384	HAYS BLVD	37.9835603102	-84.4118647358
HLX-6668	H6668	409	HAYS BLVD	37.9842986776	-84.4107975085
HLX-6669	H6669	1180	BRICK HOUSE LN	38.0009401855	-84.3974911792
HLX-6670	H6670	1156	BRICK HOUSE LN	38.0006314701	-84.3982672518
HLX-6671	H6671	1108	BRICK HOUSE LN	38.0013750087	-84.3990608684
HLX-6672	H6672	3665	BEATEN PATH	38.0018185098	-84.3982220934
HLX-6673	H6673	3633	BEATEN PATH	38.002603945	-84.398688435
HLX-6674	H6674	3621	POLO CLUB BLVD	38.0040339359	-84.3977591709
HLX-6675	H6675	1028	WELLINGTON WAY	38.0053501981	-84.5699927381
HLX-6676	H6676	1064	WELLINGTON WAY	38.0062052127	-84.5715236219
HLX-6677	H6677	1933	LONG POND WALK	38.0016112807	-84.4804391134
HLX-6678	H6678	3516	CASTLEGATE WYND	38.001563424	-84.4829030243
HLX-6679	H6679	3501	CASTLEGATE WYND	38.001954637	-84.4840722984
HLX-6680	H6680	3613	HIDDEN POND RD	38.0028017271	-84.4842195233
HLX-6681	H6681	1816	ST IVES CIR	38.0047911657	-84.4841808239
HLX-6682	H6682	1828	ST IVES CIR	38.0048463436	-84.4832869283
HLX-6683	H6683	1881	HONEY SPRING PL	38.0031490566	-84.4822890437

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6684	H6684	4088	NICHOLASVILLE RD	37.9767174775	-84.5296073073
HLX-6685	H6685	4174	NICHOLASVILLE RD	37.9750949992	-84.5302775241
HLX-6686	H6686	404	SPORTING CT	37.9979637958	-84.5340859174
HLX-6687	H6687	410	SPORTING CT	37.9986864014	-84.5339344489
HLX-6688	H6688	250	FOUNTAIN CT	38.0051889528	-84.4379022363
HLX-6689	H6689	2024	BRYANT RD	38.0181147447	-84.4105358517
HLX-6690	H6690	521	BAYLOR PL	37.9736359785	-84.5425655996
HLX-6691	H6691	497	JOSEPH BRYAN WAY	37.9742514903	-84.5431255401
HLX-6692	H6692	465	JOSEPH BRYAN WAY	37.9741653631	-84.5421578336
HLX-6693	H6693	441	JOSEPH BRYAN WAY	37.9742017129	-84.5410764282
HLX-6694	H6694	412	JOSEPH BRYAN WAY	37.9738047102	-84.5402500078
HLX-6695	H6695	3826	LOCHDALE TER	37.9735323695	-84.541477084
HLX-6696	H6696	320	BLEDSON PL	38.0249325616	-84.3976980181
HLX-6697	H6697	3050	HELMSDALE PL	38.0123896871	-84.4217961853
HLX-6698	H6698	1768	ALYSHEBA WAY	38.0151461691	-84.4231192752
HLX-6699	H6699	1748	ALYSHEBA WAY	38.0151228556	-84.4238685205
HLX-6700	H6700	1745	ALYSHEBA WAY	38.0152323756	-84.4249238218
HLX-6701	H6701	557	PASADENA DR	38.0115784594	-84.5362881715
HLX-6702	H6702	577	PASADENA DR	38.0118598669	-84.5374979632
HLX-6703	H6703	301	TWIN SPIRES TRL	37.9771492479	-84.5379247591
HLX-6704	H6704	3872	FOLEYS TRL	37.9807629974	-84.5619583859
HLX-6705	H6705	1129	HARLAN CIR	37.9814793631	-84.562177061
HLX-6706	H6706	3836	FOLEYS TRL	37.9817395063	-84.5614260326
HLX-6707	H6707	1125	SPRING RUN RD	37.9822865253	-84.5607490092
HLX-6708	H6708	1158	SPRING RUN RD	37.982473204	-84.5619451762
HLX-6709	H6709	3936	PINE RIDGE WAY	37.9817099887	-84.563119886
HLX-6710	H6710	390	PINE RIDGE WAY	37.9827245702	-84.5629196902
HLX-6711	H6711	3937	PINECREST WAY	37.9821553216	-84.5636147113
HLX-6712	H6712	3884	PINECREST WAY	37.9837280045	-84.5628974335
HLX-6713	H6713	3852	PINECREST WAY	37.9846647138	-84.5623386994
HLX-6714	H6714	380	PINE RIDGE WAY	37.9846950359	-84.5614631635
HLX-6715	H6715	417	LONG BRANCH LN	38.0862326294	-84.5596171939
HLX-6716	H6716	448	LONG BRANCH LN	38.0868021621	-84.5586856463
HLX-6717	H6717	10	TOWN BRANCH CV	38.0875778759	-84.5581200652

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6718	H6718	2956	TOWN BRANCH RD	38.0881339002	-84.5575765629
HLX-6719	H6719	2401	PASCOLI PL	38.0293669137	-84.4247971216
HLX-6720	H6720	2425	PASCOLI PL	38.0306108642	-84.4249385056
HLX-6721	H6721	2501	PASCOLI PL	38.0335383311	-84.4282948424
HLX-6722	H6722	240	SAN MILANO PL	38.0318171796	-84.4256058874
HLX-6723	H6723	2424	SAN MILANO PL	38.0324707905	-84.424583204
HLX-6724	H6724	2401	CORONEO LN	38.0323604755	-84.4264912086
HLX-6725	H6725	2424	CORONEO LN	38.0333276992	-84.4258597199
HLX-6726	H6726	2440	CORONEO LN	38.0340241835	-84.4260187944
HLX-6727	H6727	2440	ROSSINI PL	38.0336152461	-84.4249018148
HLX-6728	H6728	2513	CARDUCCI ST	38.0333954544	-84.4269042288
HLX-6729	H6729	2541	CARDUCCI ST	38.0344976867	-84.4275767319
HLX-6730	H6730	1751	ATOMA DR	38.0881542662	-84.5127322148
HLX-6731	H6731	3802	POLO CLUB BLVD	37.9965766166	-84.394757048
HLX-6732	H6732	1680	KONNER WOOD DR	38.0856558951	-84.5128876072
HLX-6733	H6733	1672	ATOMA DR	38.0848978361	-84.5129916689
HLX-6734	H6734	1648	ATOMA DR	38.0842055238	-84.5130137405
HLX-6735	H6735	2021	POLK LN	38.0841417752	-84.51206872
HLX-6736	H6736	1620	KONNER WOOD DR	38.0847407614	-84.511099224
HLX-6737	H6737	2013	WILLIS DR	38.084846613	-84.5120230146
HLX-6738	H6738	1660	KONNER WOOD DR	38.0855234361	-84.5120072834
HLX-6739	H6739	3884	WENTWORTH PL	37.9861061781	-84.4295046575
HLX-6740	H6740	169	ELLERSLIE PARK BLVD	37.98583	-84.42985
HLX-6741	H6741	3883	ORMESBY PL	37.9852617825	-84.4313389939
HLX-6742	H6742	3892	LEIGHTON LN	37.9845618865	-84.4319211831
HLX-6743	H6743	193	SOMERSLY PL	37.9841544432	-84.4313508041
HLX-6744	H6744	221	ELLERSLIE PARK BLVD	37.9828443706	-84.4314076827
HLX-6745	H6745	197	ELLERSLIE PARK BLVD	37.9836268037	-84.430354506
HLX-6746	H6746	3928	TATTON PK	37.982781229	-84.4283241571
HLX-6747	H6747	3972	TATTON PK	37.981313295	-84.4275904401
HLX-6748	H6748	224	GRASSLAND PK	37.9822743603	-84.4297873043
HLX-6749	H6749	261	GRASSLAND PK	37.9812048927	-84.4307237495
HLX-6750	H6750	3901	BRANHAM PK	37.9799164983	-84.4305623393
HLX-6751	H6751	209	KELBURN CT	37.9804260909	-84.4293429347

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HLX-6752	H6752	3945	BRANHAM PK	37.9799477336	-84.4287659234
HLX-6753	H6753	3993	BRANHAM PK	37.9799830411	-84.427170087
HLX-6754	H6754	3405	SCOTTISH TRCE	38.0246676237	-84.3967607752
HLX-6755	H6755	3153	CHERRY MEADOW PATH	38.02205664	-84.3968300416
HLX-6756	H6756	2429	GOOSEBERRY CIR	38.0229941032	-84.395462079
HLX-6757	H6757	3124	CHERRY MEADOW PATH	38.0220493715	-84.395533885
HLX-6758	H6758	2340	THISTLE PK	38.0199368062	-84.3945468359
HLX-6759	H6759	2309	THISTLE PK	38.0190676422	-84.3957405756
HLX-6760	H6760	300	BRACKTOWN RD	38.0921895164	-84.5615272215
HLX-6761	H6761	3586	LOCHDALE TER	37.9782044413	-84.5373746047
HLX-6762	H6762	30	JOHNS TURN TRL	37.9777469662	-84.537628006
HLX-6763	H6763	4182	TRADITION WAY	37.9849128482	-84.420173023
HLX-6764	H6764	816	SUNNY SLOPE TRCE	37.9713145811	-84.550632328
HLX-6765	H6765	841	SUNNY SLOPE TRCE	37.9716516441	-84.5495754421
HLX-6766	H6766	3924	YELLOWWOOD TRCE	37.9704610945	-84.5496796736
HLX-6767	H6767	3905	HOLLYBERRY LN	37.9714843634	-84.5485470732
HLX-6768	H6768	3920	HOLLYBERRY LN	37.9706428638	-84.5485763017
HLX-6769	H6769	3945	HOLLYBERRY LN	37.9695168955	-84.5484815384
HLX-6770	H6770	3905	SWEETSPIRE DR	37.9712892184	-84.5476052166
HLX-6771	H6771	3929	SWEETSPIRE DR	37.9702350132	-84.5476023734
HLX-6772	H6772	2300	PATCHEN WILKES DR	38.0422322964	-84.4411092569
HLX-6773	H6773	2272	PATCHEN WILKES DR	38.0427631103	-84.4404132575
HLX-6774	H6774	1899	GOODPASTER WAY	38.0431862718	-84.4396695477
HLX-6775	H6775	1868	GOODPASTER WAY	38.0438903016	-84.4413593713
HLX-6776	H6776	1833	GOODPASTER WAY	38.0443046233	-84.442777167
HLX-6777	H6777	1809	GOODPASTER WAY	38.0435391015	-84.4428456411
HLX-6778	H6778	1776	GOODPASTER WAY	38.0430575874	-84.4412911882
HLX-6779	H6779	1972	GENERAL WARFIELD WAY	38.0426515636	-84.4424250229
HLX-6780	H6780	1949	GENERAL WARFIELD WAY	38.0429859521	-84.4433921168
HLX-6781	H6781	1921	GENERAL WARFIELD WAY	38.0432050961	-84.4443524733
HLX-6782	H6782	1901	GENERAL WARFIELD WAY	38.0426124836	-84.445195783
HLX-6783	H6783	1912	GENERAL WARFIELD WAY	38.0427604502	-84.4445665706
HLX-6784	H6784	2980	MAHALA LN	38.0257763816	-84.3986474547
HLX-6785	H6785	3013	MAHALA CV	38.026048391	-84.3998247086

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HLX-6786	H6786	301	DREXEL PASS	38.0253551001	-84.4003552509
HLX-6787	H6787	3020	DREXEL PASS	38.0251785614	-84.3993482691
HLX-6788	H6788	2873	MAHALA LN	38.0245706849	-84.4007221839
HLX-6789	H6789	2844	MAHALA LN	38.0237386038	-84.4007302436
HLX-6790	H6790	2996	CONSTANTINE AVE	38.0241443001	-84.3992587834
HLX-6791	H6791	721	PRESS AVE	38.0346680565	-84.5117411583
HLX-6792	H6792	520	HAWKS NEST PT	37.9587195171	-84.5117658189
HLX-6793	H6793	250	S MARTIN LUTHER KING BLVD	38.0427550805	-84.498744685
HLX-6794	H6794	230	S MARTIN LUTHER KING BLVD	38.0433211662	-84.497968307
HLX-6795	H6795	320	BROADLEAF LN	38.0051260456	-84.5267627955
HLX-6796	H6796	2251	INNOVATION DR	38.0984848353	-84.5191000745
HLX-6797	H6797	2285	INNOVATION DR	38.0988356897	-84.5198350294
HLX-6798	H6798	286	SIMPSON AVE	38.0364040826	-84.5175019051
HLX-6799	H6799	3789	EVERETTS DALE	37.9747037287	-84.5488845882
HLX-6800	H6800	738	SPRUCEWOOD DR	37.9743962504	-84.5481391401
HLX-6801	H6801	712	SPRUCEWOOD DR	37.9741116294	-84.5473016094
HLX-6802	H6802	233	HAYS BLVD	37.9841518376	-84.4171796173
HLX-6803	H6803	0	E 6TH ST	38.0473468723	-84.4789459724
HLX-6804	H6804	615	SHROPSHIRE AVE	38.0482714855	-84.4789641076
HLX-6805	H6805	245	FAIRGROUNDS DR	38.0714064796	-84.4499844421
HLX-6806	H6806	221	FAIRGROUNDS DR	38.0718499473	-84.4505118529
HLX-6807	H6807	3837	STILL MEADOW LN	37.9910099348	-84.4117627258
HLX-6808	H6808	3864	STILL MEADOW LN	37.9896691881	-84.4111115155
HLX-6809	H6809	411	E 6TH ST	38.0490842057	-84.480933539
HLX-6810	H6810	5501	HALEY DOWNS DR	38.0653497026	-84.3112164619
HLX-6811	H6811	2528	PASCOLI PL	38.034777843	-84.4286046363
HLX-6812	H6812	2565	CARDUCCI ST	38.035592907	-84.4274439222
HLX-6813	H6813	2581	PASCOLI PL	38.035686716	-84.4260966263
HLX-6814	H6814	2408	GEPPA CT	38.0348727462	-84.4258086947
HLX-6815	H6815	2590	CARDUCCI ST	38.036371186	-84.4271233908
HLX-6816	H6816	0	SIR BARTON WAY	38.0371457881	-84.4258684677
HLX-6817	H6817	0	SIR BARTON WAY	38.0364766292	-84.4249628634
HLX-6818	H6818	4113	RESERVE RD	37.9995730406	-84.5778762614
HLX-6819	H6819	227	BOLIVAR ST	38.0425259613	-84.5057286515

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6820	H6820	4681	HALEY RD	38.0613735371	-84.3247071264
HLX-6821	H6821	5420	HALEY DOWNS DR	38.0618616429	-84.3206327123
HLX-6822	H6822	5442	HALEY DOWNS DR	38.0631020694	-84.315973539
HLX-6823	H6823	906	VILLAGE GREEN AVE	38.021669636	-84.4297193
HLX-6824	H6824	916	VILLAGE GREEN AVE	38.0220212707	-84.4293501104
HLX-6825	H6825	1400	BEAUMONT CENTRE LN	38.0217206174	-84.5725143397
HLX-6826	H6826	2549	MILSOM LN	38.1057548182	-84.5078572374
HLX-6827	H6827	3093	LAKECREST CIR	38.0179590772	-84.5564168954
HLX-6828	H6828	3084	LAKECREST CIR	38.0173332173	-84.5552137656
HLX-6829	H6829	3277	POLO CLUB BLVD	38.0148170238	-84.400205985
HLX-6830	H6830	2248	POKE BERRY PK	38.016097539	-84.3992532211
HLX-6831	H6831	2501	MILSOM LN	38.1042279004	-84.5082964426
HLX-6832	H6832	2256	WALCOT WAY	38.1036160913	-84.5072153956
HLX-6833	H6833	2304	WALCOT WAY	38.1033061722	-84.5084639632
HLX-6834	H6834	2344	WALCOT WAY	38.1032316185	-84.5102166131
HLX-6835	H6835	2388	WALCOT WAY	38.1033736979	-84.5119790888
HLX-6836	H6836	129	TOWNE SQUARE PK	38.0674883745	-84.5313050118
HLX-6837	H6837	159	TOWNE WALK	38.0673880065	-84.532154111
HLX-6838	H6838	161	TOWNE SQUARE PK	38.0667940601	-84.5320227854
HLX-6839	H6839	179	TOWNE SQUARE PK	38.0664610936	-84.5320846326
HLX-6840	H6840	169	TOWNE CENTER DR	38.0663455453	-84.531440078
HLX-6841	H6841	839	HAYS BLVD	37.9912048504	-84.4027638021
HLX-6842	H6842	1109	MCATEE RUN	37.9526224956	-84.4863185456
HLX-6843	H6843	2033	BRYANT RD	38.0177144552	-84.4099971275
HLX-6844	H6844	3321	BEAUMONT CENTRE CIR	38.0152682591	-84.5591819224
HLX-6845	H6845	3298	VERANDAH PL	38.0147122812	-84.5586049687
HLX-6846	H6846	136	E LOWRY LN	38.0052191949	-84.5165598958
HLX-6847	H6847	900	HAYS BLVD	37.9931415981	-84.4017316487
HLX-6848	H6848	840	HAYS BLVD	37.9918117193	-84.4022688807
HLX-6849	H6849	1245	PASSAGE MOUND WAY	38.0049039288	-84.3952985021
HLX-6850	H6850	1216	PASSAGE MOUND WAY	38.0051454664	-84.3966682685
HLX-6851	H6851	3601	POLO CLUB BLVD	38.0051124375	-84.397858459
HLX-6852	H6852	901	SUNNY SLOPE TRCE	37.9709532704	-84.5467107623
HLX-6853	H6853	949	SUNNY SLOPE TRCE	37.9695806611	-84.546465321

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HLX-6854	H6854	4013	SWEETSPIRE DR	37.9682587226	-84.5463729373
HLX-6855	H6855	3960	SWEETSPIRE DR	37.9693440062	-84.5473128105
HLX-6856	H6856	70	SUNNY SLOPE TRCE	37.968654295	-84.5474730331
HLX-6857	H6857	732	SUNNY SLOPE TRCE	37.9690303174	-84.548807855
HLX-6858	H6858	760	SUNNY SLOPE TRCE	37.9695496784	-84.5500930558
HLX-6859	H6859	781	SUNNY SLOPE TRCE	37.9702010345	-84.5506383988
HLX-6860	H6860	824	TIFFANIE CT	37.9703366029	-84.5520584807
HLX-6861	H6861	2474	BOWMAN MILL RD	37.996741269	-84.5864269851
HLX-6862	H6862	4277	PALMETTO DR	37.9970863031	-84.5861885228
HLX-6863	H6863	4371	HARRODSBURG RD	37.9963513187	-84.5846835842
HLX-6864	H6864	301	WHITE OAK TRCE	38.0819868929	-84.5588361519
HLX-6865	H6865	325	WHITE OAK TRCE	38.0816992425	-84.5580693095
HLX-6866	H6866	20	WOOLEN MILL LN	38.0832548718	-84.5569900421
HLX-6867	H6867	148	WOOLEN MILL LN	38.0848696102	-84.5555432416
HLX-6868	H6868	2797	BURNT MILL RD	38.083979842	-84.5552436498
HLX-6869	H6869	2764	BURNT MILL RD	38.0829968558	-84.5561423253
HLX-6870	H6870	349	WHITE OAK TRCE	38.081443213	-84.5573067315
HLX-6871	H6871	389	WHITE OAK TRCE	38.0817329546	-84.5559790431
HLX-6872	H6872	417	WHITE OAK TRCE	38.0825523287	-84.5552734928
HLX-6873	H6873	461	WHITE OAK TRCE	38.0837254142	-84.5542768075
HLX-6874	H6874	3541	GREENTREE RD	37.9809321114	-84.4901823874
HLX-6875	H6875	604	SKYVIEW LN	38.0975472282	-84.5361414856
HLX-6876	H6876	632	SKYVIEW LN	38.0972811562	-84.5350520654
HLX-6877	H6877	2660	ROCKAWAY PL	38.0977805497	-84.5333579218
HLX-6878	H6878	2401	ROCKAWAY PL	38.0984336005	-84.5333792137
HLX-6879	H6879	2445	ROCKAWAY PL	38.0989031411	-84.5348956714
HLX-6880	H6880	2489	ROCKAWAY PL	38.0993938722	-84.5364738784
HLX-6881	H6881	2560	ROCKAWAY PL	38.0985681774	-84.5366232017
HLX-6882	H6882	2609	ROCKAWAY PL	38.0980087685	-84.5350200566
HLX-6883	H6883	253	ELLERSLIE PARK BLVD	37.9825435814	-84.433039741
HLX-6884	H6884	260	GRIBBIN DR	38.0086704749	-84.4572478342
HLX-6885	H6885	4401	LOGANS FORT LN	37.9796672494	-84.415088148
HLX-6886	H6886	217	HANNA TODD PL	37.9804122149	-84.4144536796
HLX-6887	H6887	241	HANNA TODD PL	37.9811837839	-84.4142420176

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HLX-6888	H6888	276	HANNA TODD PL	37.9815465389	-84.415219832
HLX-6889	H6889	225	SOMERSLY PL	37.9841028374	-84.432924789
HLX-6890	H6890	257	SOMERSLY PL	37.9848777314	-84.4339105328
HLX-6891	H6891	281	SOMERSLY PL	37.9841544432	-84.4313508041
HLX-6892	H6892	293	SOMERSLY PL	37.9862200879	-84.4326630137
HLX-6893	H6893	3264	POLO CLUB BLVD	38.014698953	-84.4009946645
HLX-6894	H6894	2197	ICE HOUSE WAY	38.014116242	-84.3996831143
HLX-6895	H6895	3173	SWEET CLOVER LN	38.0132809351	-84.3996396224
HLX-6896	H6896	3217	SWEET CLOVER LN	38.0137981711	-84.4008948365
HLX-6897	H6897	3276	SWEET CLOVER LN	38.0132036943	-84.4016833759
HLX-6898	H6898	2136	MILLSTONE WAY	38.0127809095	-84.4003153962
HLX-6899	H6899	3328	SWEET CLOVER LN	38.011930054	-84.4013823244
HLX-6900	H6900	3374	SWEET CLOVER LN	38.0116202433	-84.39967324
HLX-6901	H6901	450	BOWER LN	37.9882287432	-84.3978469687
HLX-6902	H6902	764	MAIDENCANE DR	37.9869363578	-84.3952311599
HLX-6903	H6903	784	MAIDENCANE DR	37.9866089996	-84.3942683366
HLX-6904	H6904	732	MAIDENCANE DR	37.9874050521	-84.3967270273
HLX-6905	H6905	701	MAIDENCANE DR	37.9865676418	-84.3974900078
HLX-6906	H6906	4625	MARLBERRY PL	37.9861956564	-84.3960242456
HLX-6907	H6907	4652	MARLBERRY PL	37.9855453833	-84.3947692902
HLX-6908	H6908	676	MAIDENCANE DR	37.9856341748	-84.3975422089
HLX-6909	H6909	4624	HONEYCOMB TRL	37.9845350627	-84.3966157225
HLX-6910	H6910	4656	HONEYCOMB TRL	37.9847360223	-84.3952888084
HLX-6911	H6911	4509	VERBENA PK	37.986325284	-84.3985051238
HLX-6912	H6912	1056	JOUETT CREEK DR	37.9899512985	-84.3969775944
HLX-6913	H6913	4401	NATAL PL	37.9889240193	-84.397433025
HLX-6914	H6914	4505	ARUM PK	37.989279637	-84.3958160763
HLX-6915	H6915	4424	NATAL PL	37.9888012942	-84.3959485751
HLX-6916	H6916	4452	BANYAN PK	37.9889214266	-84.3945912971
HLX-6917	H6917	4424	BANYAN PK	37.9896711895	-84.3950204636
HLX-6918	H6918	1012	STONECROP DR	37.9909086853	-84.3953435625
HLX-6919	H6919	1044	STONECROP DR	37.9901684197	-84.3959421495
HLX-6920	H6920	1024	JOUETT CREEK DR	37.9908614721	-84.3962792459
HLX-6921	H6921	996	JOUETT CREEK DR	37.9921289872	-84.3967368827

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HLX-6922	H6922	976	JOUETT CREEK DR	37.9926263303	-84.3973041967
HLX-6923	H6923	4016	BACOPA PL	37.993432657	-84.3968649717
HLX-6924	H6924	957	JOUETT CREEK DR	37.9927908096	-84.3981828416
HLX-6925	H6925	676	SKYVIEW LN	38.0966718142	-84.5337291829
HLX-6926	H6926	2496	MULUNDY WAY	38.0972343319	-84.5309161481
HLX-6927	H6927	2496	CRESCENZIO WAY	38.0968879837	-84.5317347442
HLX-6928	H6928	2485	CRESCENZIO WAY	38.0965510709	-84.5315363486
HLX-6929	H6929	656	ESTRELLA DR	38.0958961814	-84.5329473576
HLX-6930	H6930	5031	JO MARRS ST	37.9629340385	-84.3713747033
HLX-6931	H6931	5828	KINGPOST CT	37.9615900506	-84.3706661607
HLX-6932	H6932	0	MAN O WAR BLVD	38.0066481743	-84.4368385385
HLX-6934	H6934	2642	PINK PIGEON PKY	38.0213906043	-84.4253811963
HLX-6935	H6935	4427	BRIAR HILL RD	38.0670422566	-84.3593679515
HLX-6936	H6936	4782	STEWART RD	38.0981199099	-84.3657610278
HLX-6937	H6937	4700	STEWART RD	38.0963841579	-84.3682357741
HLX-6938	H6938	1831	MUIR STATION RD	38.0920664397	-84.3643012376
HLX-6939	H6939	3121	BEAUMONT CENTRE CIR	38.0197271855	-84.5548863243
HLX-6940	H6940	531	WELLINGTON WAY	37.9993024039	-84.5404442684
HLX-6941	H6941	4537	WALNUT CREEK DR	37.9852666105	-84.4177246916
HLX-6942	H6942	105	ROBINSON WAY	38.08315	-84.54789
HLX-6943	H6943	149	ROBINSON WAY	38.0839179755	-84.547174107
HLX-6944	H6944	185	FERNDALE PASS	38.0848834233	-84.5462497504
HLX-6945	H6945	208	SHELL CT	38.0856962064	-84.5469211504
HLX-6946	H6946	2356	BAILEYS ROW	38.0980247014	-84.526927896
HLX-6947	H6947	1301	HARRINGTON CT	38.0980655035	-84.5254495897
HLX-6948	H6948	964	APPLECROSS DR	38.0979746595	-84.5244779234
HLX-6949	H6949	104	APPLECROSS DR	38.0990801369	-84.5248333571
HLX-6950	H6950	1301	BLARNEY CT	38.0998249864	-84.5251921802
HLX-6951	H6951	1040	APPLECROSS DR	38.0998054811	-84.5261224413
HLX-6953	H6953	804	RAVEN RD	37.9984278147	-84.4980395443
HLX-6954	H6954	3875	REAL QUIET LN	38.00998	-84.38136
HLX-6955	H6955	3904	REAL QUIET LN	38.00979	-84.37961
HLX-6956	H6956	3933	REAL QUIET LN	38.0109742192	-84.3783775839
HLX-6957	H6957	60	W MAIN ST	38.0518745483	-84.5034244728

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HLX-6958	H6958	3220	BLED SOE PL	38.0259422358	-84.3975688377
HLX-6959	H6959	330	FELICIANA LN	38.0273589458	-84.397646135
HLX-6960	H6960	3304	FELICIANA LN	38.0272897988	-84.397068636
HLX-6961	H6961	2913	FAIRFAX LN	38.0264552662	-84.3962315543
HLX-6962	H6962	2928	BLACKFORD PKY	38.0283677282	-84.3986425715
HLX-6963	H6963	3301	BLACKFORD PASS	38.0292693832	-84.3996251299
HLX-6965	H6965	2585	LIBERTY RD	38.0188279445	-84.4331480734
HLX-6966	H6966	2734	LIBERTY RD	38.0157629081	-84.4291247591
HLX-6967	H6967	1071	CRESTFIELD LN	37.9430095489	-84.4842140472
HLX-6968	H6968	0	SIR BARTON WAY	38.0408110645	-84.4285554877
HLX-6969	H6969	0	SIR BARTON WAY	38.0393757228	-84.428470887
HLX-6970	H6970	1797	MILLBANK RD	38.0832228539	-84.4703161135
HLX-6971	H6971	756	BURGESS AVE	38.0837312759	-84.4717928405
HLX-6972	H6972	1861	MILLBANK RD	38.0841709786	-84.4707574306
HLX-6973	H6973	0	E 6TH ST	38.04692718	-84.4780582581
HLX-6974	H6974	0	E 6TH ST	38.0465652754	-84.4773548117
HLX-6975	H6975	235	E 2ND ST	38.0465745315	-84.4912391539
HLX-6976	H6976	3709	HORSE MINT TRL	37.9918583173	-84.4149258547
HLX-6977	H6977	50	MIST FLOWER LN	37.9905017508	-84.4131909833
HLX-6978	H6978	3632	HORSE MINT TRL	37.9890783317	-84.4117587544
HLX-6979	H6979	150	RICHMOND PLZ	38.0095519313	-84.4581777126
HLX-6980	H6980	2530	KEARNEY RIDGE BLVD	38.1102666438	-84.5188678699
HLX-6981	H6981	2564	KEARNEY RIDGE BLVD	38.1098610283	-84.520715638
HLX-6982	H6982	2601	KEARNEY RIDGE BLVD	38.1103875171	-84.5221332082
HLX-6983	H6983	2620	KEARNEY RIDGE BLVD	38.1105163829	-84.5232697873
HLX-6984	H6984	2936	SULLIVANS TRCE	38.1113768228	-84.5247048657
HLX-6985	H6985	3249	CREEK PATH LN	38.1101693024	-84.5245203499
HLX-6986	H6986	2765	SULLIVANS TRCE	38.1086601406	-84.5226687218
HLX-6987	H6987	2633	KEARNEY CREEK LN	38.1092199741	-84.5244483266
HLX-6988	H6988	2661	KEARNEY CREEK LN	38.1090448004	-84.5259113911
HLX-6989	H6989	2696	KEARNEY CREEK LN	38.108280486	-84.5248823449
HLX-6990	H6990	2741	SULLIVANS TRCE	38.1076645461	-84.5231394534
HLX-6991	H6991	2753	KEARNEY CREEK LN	38.1073145202	-84.5218273543
HLX-6992	H6992	2789	KEARNEY CREEK LN	38.106797064	-84.5202367551

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HLX-6993	H6993	2813	KEARNEY CREEK LN	38.1074284409	-84.5195998711
HLX-6994	H6994	2836	KEARNEY CREEK LN	38.1079916802	-84.5206313975
HLX-6995	H6995	842	WARFIELD PL	38.0517417452	-84.472036169
HLX-6997	H6997	4040	REAL QUIET LN	38.0145653308	-84.3822998772
HLX-6998	H6998	4024	REAL QUIET LN	38.0138117727	-84.3814668551
HLX-6999	H6999	3858	SLIVER CHARM LN	38.0123248185	-84.381440441
HLX-7000	H7000	3989	REAL QUIET LN	38.0125633088	-84.3804987039
HLX-7001	H7001	3963	REAL QUIET LN	38.0116400332	-84.3792571001
HLX-7002	H7002	4383	CLEARWATER WAY	37.9620169437	-84.4976142621
HLX-7003	H7003	4395	CLEARWATER WAY	37.9620539285	-84.4961054203
HLX-7004	H7004	5001	CLEARWATER WAY	37.9623424165	-84.4949086101
HLX-7005	H7005	780	MILES POINT WAY	38.0636587241	-84.5544975963
HLX-7006	H7006	376	S UPPER ST	38.0444817746	-84.5016845214
HLX-7007	H7007	3175	SANDERSVILLE RD	38.1095809417	-84.5349609421
HLX-7008	H7008	3008	LAGUNA CT	38.109316986	-84.5334837776
HLX-7009	H7009	3100	TIBURON WAY	38.110369969	-84.5340876422
HLX-7010	H7010	3148	TIBURON WAY	38.1118999737	-84.533795581
HLX-7011	H7011	3260	TIBURON WAY	38.1110998703	-84.5303798368
HLX-7012	H7012	3120	RINEY RD	38.1114487296	-84.5322658606
HLX-7013	H7013	310	RINEY RD	38.1105185464	-84.5326264614
HLX-7014	H7014	3245	SANDERSVILLE RD	38.1102076324	-84.5320164918
HLX-7015	H7015	3269	SANDERSVILLE RD	38.1098524306	-84.5307790598
HLX-7016	H7016	30	W REYNOLDS RD	37.993711318	-84.5306602073
HLX-7017	H7017	3712	ST ANDREWS WALK	38.00492	-84.41139
HLX-7018	H7018	2755	GEORGETOWN RD	38.108404344	-84.5170995794
HLX-7019	H7019	665	CROMWELL WAY	37.9906674512	-84.5590593581
HLX-7020	H7020	3464	CLAYS MILL RD	37.9909225211	-84.5578394486
HLX-7021	H7021	3449	CLAYS MILL RD	37.9915351354	-84.5561109247
HLX-7022	H7022	3425	CLAYS MILL RD	37.9921410047	-84.5543475004
HLX-7023	H7023	641	CINDY BLAIR WAY	37.993653198	-84.5527698755
HLX-7024	H7024	3344	KEITHSHIRE WAY	37.9954939466	-84.5493765623
HLX-7025	H7025	3334	CLAYS MILL RD	37.9968228185	-84.5481712693
HLX-7026	H7026	632	BETH LN	38.0004824628	-84.5464035142
HLX-7027	H7027	3105	CLAYS MILL RD	38.0020579687	-84.5454106683

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HLX-7029	H7029	9343	ROCKWELL RD	38.0439916074	-84.3172714761
HLX-7030	H7030	9275	ROCKWELL RD	38.0426792872	-84.312011143
HLX-7031	H7031	8989	ROCKWELL RD	38.0404343354	-84.302324153
HLX-7032	H7032	825	SUGARBUSH TRL	37.9896142876	-84.3982433152
HLX-7033	H7033	157	N BROADWAY	38.0695200991	-84.3305664085
HLX-7034	H7034	187	N BROADWAY	38.0677754083	-84.3432307379
HLX-7035	H7035	2492	TREELINE WAY	38.0209571156	-84.439546783
HLX-7036	H7036	2440	TREELINE WAY	38.0210755846	-84.4406582955
HLX-7037	H7037	4056	SWEETSPIRE DR	37.9680163829	-84.5444459935
HLX-7038	H7038	4093	SWEETSPIRE DR	37.9675780541	-84.5430701321
HLX-7039	H7039	30	LOBLOLLY CT	37.9669067112	-84.5433600337
HLX-7040	H7040	30	KELLI ROSE WAY	37.9682723863	-84.5427725489
HLX-7041	H7041	348	KELLI ROSE WAY	37.969062774	-84.5442668776
HLX-7042	H7042	30	SILVERBELL TRCE	37.9689909623	-84.5423996825
HLX-7043	H7043	352	SILVERBELL TRCE	37.9700492828	-84.5435060171
HLX-7044	H7044	2913	POLO CLUB BLVD	38.0251119131	-84.4059736075
HLX-7045	H7045	2434	NICHOLASVILLE RD	38.0026360385	-84.5195644254
HLX-7046	H7046	1400	NEWTOWN PIKE	38.0854886546	-84.489875982
HLX-7047	H7047	1449	NEWTOWN CENTER WAY	38.0850164895	-84.4886163194
HLX-7048	H7048	1403	NEWTOWN CENTER WAY	38.0832414408	-84.4889707371
HLX-7049	H7049	140	NEWTOWN PIKE	38.0830976585	-84.4910749319
HLX-7050	H7050	1321	RUSSELL SPRINGS DR	38.0844759523	-84.4870854913
HLX-7051	H7051	701	NEWTOWN SPRINGS DR	38.0839474723	-84.4855521911
HLX-7052	H7052	721	NEWTOWN SPRINGS DR	38.0830175309	-84.4866825798
HLX-7053	H7053	904	DAWSON SPRINGS WAY	38.0828236408	-84.4837955903
HLX-7054	H7054	917	DAWSON SPRINGS WAY	38.0831388749	-84.4849142228
HLX-7055	H7055	940	DAWSON SPRINGS WAY	38.0827449757	-84.4853173014
HLX-7056	H7056	1340	SILVER SPRINGS DR	38.0821228804	-84.4840101152
HLX-7057	H7057	1345	SILVER SPRINGS DR	38.0815023304	-84.4844227042
HLX-7058	H7058	733	DAWSON SPRINGS WAY	38.08153243	-84.4861193514
HLX-7059	H7059	764	DAWSON SPRINGS WAY	38.0801630765	-84.4858737502
HLX-7060	H7060	208	BUCK LN	38.0833833781	-84.5346515246
HLX-7061	H7061	588	CHILESBURG RD	37.9899532412	-84.40949832
HLX-7062	H7062	3024	BLACKFORD PKY	38.0251493246	-84.3961865829

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7063	H7063	3056	BLACKFORD PKY	38.024296615	-84.3948538827
HLX-7064	H7064	3080	BLACKFORD PKY	38.0232222531	-84.3943712018
HLX-7065	H7065	310	CHERRY MEADOW PATH	38.0223090376	-84.3940440255
HLX-7066	H7066	3241	CHERRY MEADOW PATH	38.0206142723	-84.3938504053
HLX-7067	H7067	1424	ALEXANDRIA DR	38.0478702035	-84.5518971954
HLX-7068	H7068	115	CONN TER	38.0312913166	-84.511590642
HLX-7069	H7069	3037	OUR TIBBS TRL	38.1059188852	-84.5338958671
HLX-7070	H7070	3080	OUR TIBBS TRL	38.1072944592	-84.5332444134
HLX-7071	H7071	2060	POLK LN	38.0833827552	-84.5137899424
HLX-7072	H7072	2097	POLK LN	38.0826932003	-84.5133895004
HLX-7073	H7073	3298	VERSAILLES RD	38.0442955969	-84.5739566873
HLX-7074	H7074	2906	SULLIVANS TRCE	38.1121492322	-84.5234051382
HLX-7075	H7075	2815	CHERRY BLOSSOM WAY	38.1115523881	-84.5227447965
HLX-7076	H7076	2845	SULLIVANS TRCE	38.1116314279	-84.5217173646
HLX-7077	H7077	1053	KAVENAUGH LN	38.004946471	-84.4103670906
HLX-7078	H7078	3144	BLACKFORD PKY	38.0197080063	-84.3937280017
HLX-7079	H7079	3253	BLACKFORD PKY	38.0190978283	-84.393292291
HLX-7080	H7080	3264	BLACKFORD PKY	38.0183598261	-84.3918654402
HLX-7081	H7081	330	BLACKFORD PKY	38.0175755512	-84.390190217
HLX-7082	H7082	3328	BLACKFORD PKY	38.0165738857	-84.3888457372
HLX-7083	H7083	3372	BLACKFORD PKY	38.0149396961	-84.3881394952
HLX-7084	H7084	3396	BLACKFORD PKY	38.0138245221	-84.3889856561
HLX-7085	H7085	3373	HIBERNIA PASS	38.0150419868	-84.3891942854
HLX-7086	H7086	330	MATHERN TRL	38.0170762562	-84.3908618361
HLX-7087	H7087	3332	BAY SPRINGS PK	38.0156679845	-84.3916782358
HLX-7088	H7088	2217	ICE HOUSE WAY	38.0150279531	-84.3990278014
HLX-7089	H7089	2272	ICE HOUSE WAY	38.0160362732	-84.3976332783
HLX-7090	H7090	2312	ICE HOUSE WAY	38.016857962	-84.3971221279
HLX-7091	H7091	3356	ORCHARD GRASS RD	38.0178032488	-84.3969974858
HLX-7092	H7092	3289	ORCHARD GRASS RD	38.0177186186	-84.3984312114
HLX-7093	H7093	3237	ORCHARD GRASS RD	38.0166352883	-84.3987096909
HLX-7094	H7094	4391	CLEARWATER WAY	37.9620126744	-84.4972951481
HLX-7095	H7095	1909	MILLBANK RD	38.0848911791	-84.4724683772
HLX-7096	H7096	1960	MILLBANK RD	38.0847559795	-84.4739532465

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HLX-7097	H7097	1669	MCCULLOUGH DR	38.083811781	-84.4742110289
HLX-7098	H7098	797	BURGESS AVE	38.083799198	-84.4732468734
HLX-7099	H7099	1950	EDGEWORTH DR	38.0705822084	-84.453583908
HLX-7100	H7100	1976	EDGEWORTH DR	38.0713959418	-84.4523273364
HLX-7101	H7101	217	LACLEDE AVE	38.0704716942	-84.4524434518
HLX-7102	H7102	261	LACLEDE AVE	38.07027	-84.4511
HLX-7103	H7103	292	LACLEDE AVE	38.0692034986	-84.4509247061
HLX-7104	H7104	130	TOWNE CENTER DR	38.0668805671	-84.5300520694
HLX-7105	H7105	1529	BULL LEA RD	38.0912730682	-84.4921725196
HLX-7106	H7106	810	BULL LEA RUN	38.0910387461	-84.4909681824
HLX-7107	H7107	0	E 5TH ST	38.0450723819	-84.480447457
HLX-7108	H7108	394	NELSON AVE	38.0449690047	-84.4796497189
HLX-7109	H7109	428	NELSON AVE	38.0456538655	-84.4787641354
HLX-7110	H7110	0	E 6TH ST	38.0465615932	-84.4778922782
HLX-7111	H7111	568	MUSTANG CROSSING DR	38.0458890377	-84.4766598256
HLX-7112	H7112	522	MUSTANG CROSSING DR	38.0449576877	-84.4774961778
HLX-7113	H7113	651	THOROUGHbred WAY	38.0443247122	-84.4782683444
HLX-7114	H7114	937	MIDNIGHT PASS	38.0158559278	-84.5574346722
HLX-7115	H7115	950	MIDNIGHT PASS	38.0168274267	-84.558072866
HLX-7116	H7116	973	MIDNIGHT PASS	38.0175325428	-84.5572134909
HLX-7117	H7117	2424	SIR BARTON WAY	38.0299808512	-84.4204006705
HLX-7118	H7118	1574	GEORGETOWN RD	38.083280958	-84.5100584449
HLX-7120	H7120	997	GOVERNORS LN	38.0196418406	-84.5576528649
HLX-7121	H7121	2191	NEWTOWN PIKE	38.1044205461	-84.4847101085
HLX-7122	H7122	3289	NEWTOWN PIKE	38.1314162329	-84.4872295883
HLX-7123	H7123	540	E 5TH ST	38.0463464988	-84.4818570269
HLX-7124	H7124	473	JULIA WAY	38.0457749546	-84.4812183813
HLX-7125	H7125	596	E 4TH ST	38.0436701028	-84.4822254161
HLX-7126	H7126	416	JULIA WAY	38.0446028324	-84.4824192285
HLX-7127	H7127	443	E SHROPSHIRE AVE	38.0456757601	-84.482775318
HLX-7128	H7128	542	GRINSTEAD ST	38.0445643329	-84.4834681499
HLX-7129	H7129	256	E HIGH ST	38.0419544941	-84.49527687
HLX-7130	H7130	4712	SARON DR	37.9510312411	-84.4878957438
HLX-7131	H7131	1706	RUSSELL CAVE RD	38.0790759548	-84.4710540579

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HLX-7132	H7132	287	S LIMESTONE	38.043650216	-84.5011145179
HLX-7133	H7133	217	TOWNE SQUARE PK	38.0657443206	-84.5307009648
HLX-7134	H7134	254	TOWNE SQUARE PK	38.0662394866	-84.5301996671
HLX-7135	H7135	3202	ROYSTER RD	38.0477621125	-84.3773751898
HLX-7136	H7136	3079	ROYSTER RD	38.049914072	-84.3801189088
HLX-7137	H7137	180	MEETING ST	38.0402372951	-84.4416085118
HLX-7138	H7138	2323	PATCHEN WILKES DR	38.0402128873	-84.4420375562
HLX-7139	H7139	2353	PATCHEN WILKES DR	38.0393222512	-84.442730115
HLX-7140	H7140	1769	BATTERY ST	38.0397339351	-84.4437867243
HLX-7141	H7141	2389	PATCHEN WILKES DR	38.038689377	-84.4440698166
HLX-7142	H7142	1773	SANDHURST CV	38.0380987933	-84.4454634378
HLX-7143	H7143	1768	SANDHURST CV	38.039154232	-84.4459014186
HLX-7144	H7144	1735	SANDHURST CV	38.0402227229	-84.4449735874
HLX-7145	H7145	2747	MEADOWSWEET LN	38.109272022	-84.5205901496
HLX-7146	H7146	2516	KITTENS JOY CIR	38.1090878426	-84.521110708
HLX-7147	H7147	2717	MEADOWSWEET LN	38.1084769069	-84.5204802443
HLX-7148	H7148	107	HELM ST	38.041814144	-84.4568782852
HLX-7149	H7149	1806	WHITMER WAY	38.048322527	-84.5107294685
HLX-7150	H7150	811	STAR SHOOT PKY	38.0191889132	-84.4314010235
HLX-7151	H7151	3909	HARRODSBURG RD	38.0014672977	-84.5747643239
HLX-7152	H7152	2437	FORTUNE DR	38.0337940323	-84.4468190378
HLX-7153	H7153	30	HANNA TODD PL	37.980966539	-84.4159437582
HLX-7154	H7154	2422	CALENDULA RD	38.0918673051	-84.5292482497
HLX-7155	H7155	2440	CALENDULA RD	38.0922549534	-84.5301117652
HLX-7156	H7156	2455	FIELDRUSH RD	38.0924286897	-84.5312439497
HLX-7157	H7157	2477	FIELDRUSH RD	38.0931390137	-84.5305771491
HLX-7158	H7158	2442	FIELDRUSH RD	38.0934670753	-84.5292928286
HLX-7159	H7159	2424	FIELDRUSH RD	38.0928351451	-84.5287710296
HLX-7160	H7160	2404	FIELDRUSH RD	38.0925264146	-84.5277697521
HLX-7161	H7161	951	RED MILE RD	38.0411373261	-84.524118865
HLX-7162	H7162	1730	BRYANT RD	38.0142250253	-84.4187025285
HLX-7163	H7163	224	FOREST PARK RD	38.0278227016	-84.5150529692
HLX-7164	H7164	20	FLORAL PK	38.0266123421	-84.5149493575
HLX-7165	H7165	216	FLORAL PK	38.0269280095	-84.5162068453

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HLX-7166	H7166	439	W 4TH ST	38.0548104577	-84.4948831896
HLX-7167	H7167	1742	MILLBANK RD	38.0827922378	-84.4714890105
HLX-7168	H7168	700	ELVERTON CT	38.0820014611	-84.4722736099
HLX-7169	H7169	2081	BRYANT RD	38.0164872265	-84.4099365245
HLX-7170	H7170	703	SPRING MEADOWS DR	38.0283172432	-84.5331692828
HLX-7171	H7171	0	OLD ROSEBUD RD	38.0290888319	-84.4220870975
HLX-7172	H7172	4196	SPERLING DR	37.9881844035	-84.3994411827
HLX-7173	H7173	4174	SPERLING DR	37.9871174314	-84.4000282336
HLX-7174	H7174	4154	SPERLING DR	37.9869090329	-84.4009513756
HLX-7175	H7175	648	MAIDENCANE DR	37.9844061457	-84.3987000789
HLX-7176	H7176	4205	NEEDLERUSH DR	37.983807821	-84.3975649264
HLX-7177	H7177	4209	STARRUSH PL	37.9842013385	-84.3997498942
HLX-7178	H7178	616	BUNCHBERRY ROW	37.9849372497	-84.3994513975
HLX-7179	H7179	4185	STARRUSH PL	37.9850314541	-84.4004105179
HLX-7180	H7180	333	WALLER AVE	38.0293062378	-84.5165498014
HLX-7181	H7181	1601	FERGUSON RD	38.1731228369	-84.3654810831
HLX-7182	H7182	1901	FERGUSON RD	38.1763828747	-84.3726067086
HLX-7183	H7183	2100	FERGUSON RD	38.1792635816	-84.3805770208
HLX-7184	H7184	2285	FERGUSON RD	38.181408027	-84.3867900496
HLX-7185	H7185	2421	FERGUSON RD	38.1842138722	-84.3920851268
HLX-7186	H7186	2571	FERGUSON RD	38.1874415376	-84.3973872756
HLX-7187	H7187	6736	RUSSELL CAVE RD	38.1918582509	-84.3997187873
HLX-7189	H7189	7150	RUSSELL CAVE RD	38.2024063061	-84.3943917957
HLX-7190	H7190	7290	RUSSELL CAVE RD	38.2067933394	-84.3926015575
HLX-7191	H7191	1796	FARMVIEW DR	37.9629055935	-84.4556208289
HLX-7192	H7192	0	MT TABOR RD	38.0031298879	-84.4539268183
HLX-7193	H7193	112	MT TABOR RD	38.0040750751	-84.4525380794
HLX-7194	H7194	1575	MCGRATHIANA PKY	38.0948811263	-84.4934317124
HLX-7195	H7195	3480	MILANO RD	37.9831374054	-84.4826442268
HLX-7196	H7196	2312	REMINGTON WAY	38.0963462893	-84.5077132015
HLX-7197	H7197	307	ROSEMONT GDN	38.0213453668	-84.5264958899
HLX-7198	H7198	572	PARKSIDE DR	38.0850185866	-84.4567419713
HLX-7199	H7199	231	N BROADWAY	38.0967449698	-84.5444717878
HLX-7200	H7200	3734	HORSE MINT TRL	37.9919818606	-84.4139491336

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HLX-7201	H7201	1613	HARMONY HALL LN	38.0102868676	-84.4797605333
HLX-7203	H7203	3601	PALOMAR CENTRE DR	38.005169956	-84.5684813245
HLX-7204	H7204	4566	KEARNEY RD	38.1381594767	-84.5662163177
HLX-7205	H7205	1460	N YARNALLTON PIKE	38.1364257742	-84.5688734014
HLX-7206	H7206	1289	N YARNALLTON PIKE	38.1347657479	-84.570981697
HLX-7207	H7207	333	N BROADWAY	38.0928268189	-84.5415999052
HLX-7208	H7208	1140	FLOYD DR	38.0505420382	-84.4593378743
HLX-7209	H7209	0	E 6TH ST	38.045498103	-84.4744868934
HLX-7210	H7210	0	E 6TH ST	38.0456317254	-84.4757671131
HLX-7211	H7211	0	E 6TH ST	38.0449407464	-84.4750760661
HLX-7212	H7212	0	E 6TH ST	38.0448174381	-84.4762534718
HLX-7213	H7213	515	GRANDSTAND DR	38.0443690087	-84.4766364415
HLX-7214	H7214	673	THOROUGHbred WAY	38.044017951	-84.4774056384
HLX-7215	H7215	732	THOROUGHbred WAY	38.0432981715	-84.4763664529
HLX-7216	H7216	748	TRIPLE CROWN CIR	38.0439294834	-84.4751595322
HLX-7217	H7217	3294	RICHMOND RD	37.9993337513	-84.4444755614
HLX-7218	H7218	120	SAND LAKE DR	37.9984409441	-84.4445189428
HLX-7219	H7219	109	SAND LAKE DR	37.9988853372	-84.4453643231
HLX-7220	H7220	4204	VICTORIA WAY	37.9683076924	-84.5189717583
HLX-7221	H7221	4048	MOONCOIN WAY	37.9702934364	-84.5181865166
HLX-7222	H7222	4064	MOONCOIN WAY	37.9692772533	-84.5188693827
HLX-7223	H7223	404	SPENCER PK	37.9690627343	-84.5178105968
HLX-7224	H7224	452	MADISON POINT DR	37.9687054507	-84.5163271621
HLX-7225	H7225	50	MADISON POINT DR	37.9674122527	-84.5162732308
HLX-7226	H7226	405	PARKER MEADOWS	37.9678258135	-84.5173050196
HLX-7227	H7227	4240	VICTORIA WAY	37.9670918589	-84.5182870803
HLX-7228	H7228	529	MADISON POINT DR	37.9664477188	-84.51664678
HLX-7229	H7229	401	N BROADWAY	38.0536573901	-84.4933127099
HLX-7230	H7230	430	N BROADWAY	38.1006009761	-84.5372144414
HLX-7231	H7231	2333	INNOVATION DR	38.0996747436	-84.5210157184
HLX-7232	H7232	2343	INNOVATION DR	38.1004365176	-84.5217412086
HLX-7233	H7233	2383	INNOVATION DR	38.1014691759	-84.5216776779
HLX-7234	H7234	2381	INNOVATION DR	38.1023455419	-84.521221968
HLX-7235	H7235	2421	INNOVATION DR	38.1033582815	-84.5206957564

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HLX-7236	H7236	2445	INNOVATION DR	38.1042339279	-84.5202518683
HLX-7237	H7237	501	N BROADWAY	38.0550990047	-84.4912815355
HLX-7238	H7238	2387	MERLUNA DR	38.0949888458	-84.5304069938
HLX-7239	H7239	2344	MERLUNA DR	38.0946657857	-84.5316231007
HLX-7240	H7240	2461	CRESCENZIO WAY	38.0957721891	-84.5312499693
HLX-7241	H7241	658	CIELO VISTA RD	38.0951302993	-84.5327838157
HLX-7242	H7242	523	SPRING ST	38.0455990607	-84.5069620519
HLX-7243	H7243	171	N EAGLE CREEK DR	38.0014838972	-84.4389853306
HLX-7244	H7244	716	CIELO VISTA RD	38.0955993266	-84.5297856498
HLX-7245	H7245	317	OWSLEY AVE	38.0359937767	-84.4743940355
HLX-7247	H7247	1931	STANTON WAY	38.1016418562	-84.4815416131
HLX-7248	H7248	2100	HACKNEY PL	38.10218237	-84.48089913
HLX-7249	H7249	596	BULLRUSH TRCE	37.9812329539	-84.4036586598
HLX-7250	H7250	548	BULLRUSH TRCE	37.9820799803	-84.4040639204
HLX-7251	H7251	50	BULLRUSH TRCE	37.9813372962	-84.4053205386
HLX-7252	H7252	367	MCCONNELLS TRCE	38.0858028032	-84.5654161047
HLX-7253	H7253	644	WAVELAND MUSEUM LN	37.9719912195	-84.5442928398
HLX-7254	H7254	3812	BLUE BONNET DR	37.9717356023	-84.5432293081
HLX-7255	H7255	40	KELLI ROSE WAY	37.9709614277	-84.5443959861
HLX-7256	H7256	478	FERGUSON RD	38.1709148279	-84.3627256231
HLX-7257	H7257	3292	BRIAR HILL RD	38.0725381964	-84.4066579836
HLX-7258	H7258	3390	BRIAR HILL RD	38.0715222066	-84.4039880424
HLX-7259	H7259	3508	BRIAR HILL RD	38.0690876294	-84.3954919723
HLX-7260	H7260	109	LONETA AVE	38.0633666462	-84.4699429192
HLX-7261	H7261	190	MARKET ST	38.0494344143	-84.4960665511
HLX-7262	H7262	998	GOVERNORS LN	38.0197412841	-84.5579863905
HLX-7263	H7263	468	PARKWAY DR	38.0359422391	-84.5243439118
HLX-7264	H7264	2134	NICHOLASVILLE RD	38.0095638052	-84.5172965628
HLX-7265	H7265	2339	STERLINGTON RD	37.9935306033	-84.4641611015
HLX-7266	H7266	1852	BRYANT RD	38.0171967372	-84.4161794896
HLX-7267	H7267	701	RED MILE RD	38.0478251903	-84.523531957
HLX-7268	H7268	502	RAIN GARDEN WAY	38.0719607296	-84.5042739404
HLX-7269	H7269	519	KELLER CT	38.0722554329	-84.5043759962
HLX-7270	H7270	1012	OAK HILL DR	38.0535020351	-84.4712375559

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HLX-7271	H7271	1101	HIGHLAND PARK DR	38.0522753041	-84.4696287604
HLX-7272	H7272	1201	HIGHLAND PARK DR	38.0516312831	-84.4687879624
HLX-7273	H7273	338	MCCONNELLS TRCE	38.0845155402	-84.5650271701
HLX-7274	H7274	275	MCCONNELLS TRCE	38.0837261142	-84.5632706134
HLX-7275	H7275	304	E NEW CIRCLE RD	38.0599103475	-84.464483037
HLX-7276	H7276	3812	CAYMAN LN	38.0202283519	-84.3744601154
HLX-7278	H7278	3872	CAYMAN HEIGHTS	38.017830514	-84.372884129
HLX-7279	H7279	2528	CAYMAN HEIGHTS	38.0173902244	-84.3735935447
HLX-7280	H7280	2580	CAYMAN HEIGHTS	38.0171914761	-84.3709399457
HLX-7281	H7281	2626	CAYMAN HEIGHTS	38.0160622093	-84.3708766719
HLX-7282	H7282	2656	CAYMAN HEIGHTS	38.015648093	-84.3724448358
HLX-7283	H7283	3701	NICHOLASVILLE RD	37.9842119293	-84.5272543923
HLX-7284	H7284	141	ROJAY DR	37.9847856587	-84.5286700491
HLX-7285	H7285	1549	N LIMESTONE	38.0649440493	-84.4703130026
HLX-7286	H7286	949	MEADOW LN	38.0518216256	-84.4654981153
HLX-7287	H7287	636	MT TABOR RD	38.1035664414	-84.5434333272
HLX-7288	H7288	2876	RIO DOSA DR	38.0086446325	-84.4454667894
HLX-7289	H7289	507	S LIMESTONE	38.1049251393	-84.5432735115
HLX-7290	H7290	543	S LIMESTONE	38.1051885426	-84.5420728431
HLX-7291	H7291	563	S LIMESTONE	38.1055325705	-84.5395854979
HLX-7294	H7294	749	W SHORT ST	38.1049428188	-84.5387929943
HLX-7298	H7298	2371	BUENA VISTA RD	38.0436631619	-84.4207052595
HLX-7299	H7299	325	MIDLAND PL	38.0427739919	-84.480642298
HLX-7310	H7310	4618	LARKHILL LN	37.9810243639	-84.4026889788
HLX-7311	H7311	4641	WILLMAN WAY	37.9819646444	-84.4020326553
HLX-7312	H7312	319	E MAXWELL ST	38.03887	-84.49621
HLX-7313	H7313	418	E MAXWELL ST	38.03815	-84.49546
HLX-7314	H7314	454	E MAXWELL ST	38.03727	-84.49445
HLX-7315	H7315	4161	VICTORIA WAY	37.96878	-84.52059
HLX-7316	H7316	767	W SHORT ST	38.0547528996	-84.5053384638
HLX-7317	H7317	753	W MAIN ST	38.05399	-84.50575
HLX-7318	H7318	721	W MAIN ST	38.05334	-84.50515
HLX-7319	H7319	4112	STARRUSH PL	37.9872294705	-84.3986603878
HLX-7320	H7320	4777	WILLMAN WAY	37.9858653736	-84.4011170151

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7321	H7321	4749	WILLMAN WAY	37.9846524436	-84.4012972719
HLX-7322	H7322	4717	WILLMAN WAY	37.9833451965	-84.3999936745
HLX-7323	H7323	4693	WILLMAN WAY	37.9822461366	-84.4000035155
HLX-7324	H7324	424	W SHORT ST	38.05007	-84.49966
HLX-7325	H7325	161	BRUCE ST	38.0521688275	-84.5005715699
HLX-7326	H7326	486	W 2ND ST	38.0536	-84.50044
HLX-7327	H7327	466	W 2ND ST	38.05283	-84.4996
HLX-7328	H7328	438	W 2ND ST	38.05206	-84.4988
HLX-7329	H7329	417	W 2ND ST	38.05134	-84.49794
HLX-7330	H7330	238	W 2ND ST	38.0498362084	-84.4963584586
HLX-7331	H7331	190	MARKET ST	38.04941	-84.49584
HLX-7332	H7332	903	MANCHESTER ST	38.05286	-84.50959
HLX-7333	H7333	949	PINE ST	38.05162	-84.50994
HLX-7334	H7334	1850	EASTLAND PKY	38.0534470007	-84.43896977
HLX-7336	H7336	1310	W MAIN ST	38.06231	-84.51867
HLX-7337	H7337	537	N BROADWAY	38.05583	-84.49026
HLX-7338	H7338	559	N BROADWAY	38.05647	-84.48928
HLX-7339	H7339	624	N BROADWAY	38.05697	-84.48842
HLX-7340	H7340	657	N BROADWAY	38.05762	-84.4877
HLX-7341	H7341	116	PENMOKEN PK	38.01665	-84.51706
HLX-7342	H7342	154	PENMOKEN PK	38.01761	-84.51997
HLX-7343	H7343	410	MORGAN AVE	38.05823	-84.46988
HLX-7344	H7344	415	MORGAN AVE	38.0578323801	-84.469486593
HLX-7345	H7345	451	MORGAN AVE	38.05667	-84.46826
HLX-7346	H7346	2444	HARRODSBURG RD	38.0175	-84.54791
HLX-7347	H7347	545	HOLLYHILL DR	38.01664	-84.53643
HLX-7348	H7348	539	HARRY ST	38.0535377352	-84.4879126367
HLX-7349	H7349	611	BELLAIRE AVE	38.05995	-84.49092
HLX-7350	H7350	701	BELLAIRE AVE	38.0606479106	-84.4899613632
HLX-7351	H7351	738	BELLAIRE AVE	38.0613834349	-84.4889380168
HLX-7352	H7352	4223	MOONCOIN WAY	37.9675	-84.5198
HLX-7353	H7353	4255	MOONCOIN WAY	37.96644	-84.52043
HLX-7354	H7354	4116	KATHERINE PL	37.96631	-84.52167
HLX-7355	H7355	4187	KATHERINE PL	37.96766	-84.52163

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7356	H7356	376	MANITOBA LN	37.96637	-84.52253
HLX-7357	H7357	114	VENICE PK	38.01842	-84.52407
HLX-7358	H7358	3751	BLUE BONNET DR	37.97311	-84.54427
HLX-7359	H7359	325	HANNA TODD PL	37.9799494733	-84.4156898889
HLX-7360	H7360	2540	SIR BARTON WAY	38.03474	-84.42201
HLX-7361	H7361	141	W LOWRY LN	38.00614	-84.51968
HLX-7362	H7362	702	FLORIDA ST	38.05667	-84.48557
HLX-7363	H7363	777	FLORIDA ST	38.0581609092	-84.4836568303
HLX-7364	H7364	429	TRANSYLVANIA PK	38.03486	-84.49846
HLX-7365	H7365	375	TRANSYLVANIA PK	38.03572	-84.49724
HLX-7366	H7366	333	TRANSYLVANIA PK	38.0367718957	-84.4957486274
HLX-7368	H7368	1603	VILLA MEDICI PASS	38.02927	-84.42843
HLX-7369	H7369	0	OLD ROSEBUD RD	38.02859	-84.42914
HLX-7370	H7370	2521	OLD ROSEBUD RD	38.02816	-84.43157
HLX-7371	H7371	949	SUGARBUSH TRL	37.991990829	-84.3976327366
HLX-7372	H7372	298	W LOUDON AVE	38.06294	-84.49135
HLX-7373	H7373	4640	LARKHILL LN	37.9807807827	-84.4016780561
HLX-7374	H7374	4771	FOXGLOVE PT	37.9812890679	-84.3991852258
HLX-7375	H7375	4101	RUSSELL CAVE RD	38.1299	-84.43146
HLX-7376	H7376	101	S YARNALLTON PIKE	38.11017	-84.58348
HLX-7377	H7377	3908	RUSSELL CAVE RD	38.12818	-84.43415
HLX-7378	H7378	3919	KENNY LN	38.11976	-84.42064
HLX-7379	H7379	3050	LAKECREST CIR	38.01639	-84.55339
HLX-7380	H7380	4254	KATHERINE PL	37.96666	-84.52252
HLX-7381	H7381	453	MANITOBA LN	38.0984336005	-84.5333792137
HLX-7382	H7382	4288	RIDGEWATER DR	38.0989031411	-84.5348956714
HLX-7383	H7383	4328	RIDGEWATER DR	38.0993938722	-84.5364738784
HLX-7384	H7384	4154	NEEDLERUSH DR	37.9816965448	-84.3981100654
HLX-7385	H7385	7037	RICHMOND RD	37.9252492849	-84.3730010106
HLX-7390	H7390	4501	GEORGETOWN RD	38.15169476	-84.54419605
HLX-7391	H7391	711	MILES POINT WAY	38.06757	-84.55665
HLX-7392	H7392	709	MILES POINT WAY	38.0677278	-84.55566946
HLX-7393	H7393	2922	EMINENT DR	38.10423724	-84.53582361
HLX-7394	H7394	4263	BETHEL RD	38.12209236	-84.58237603

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7395	H7395	4699	BETHEL RD	38.13266292	-84.58438853
HLX-7396	H7396	1032	FALCON WOOD WAY	38.13287015	-84.58235721
HLX-7398	H7398	3271	GEORGETOWN RD	38.11951953	-84.52264169
HLX-7400	H7400	0	LISLE RD	38.15672019	-84.54470308
HLX-7402	H7402	150	SHORESIDE DR	37.9913389895	-84.4370870718
HLX-7403	H7403	1730	AMETHYST WAY	38.01982162	-84.3920622
HLX-7404	H7404	1753	AMETHYST WAY	38.0998054811	-84.5261224413
HLX-7405	H7405	3502	TRANQUILITY PT	38.0998249864	-84.5251921802
HLX-7406	H7406	4001	MOONCOIN WAY	38.0990801369	-84.5248333571
HLX-7407	H7407	3601	POLO CLUB BLVD	38.1023455419	-84.521221968
HLX-7408	H7408	1154	PASSAGE MOUND WAY	38.1014691759	-84.5216776779
HLX-7409	H7409	501	PLUNKETT ST	38.1004365176	-84.5217412086
HLX-7410	H7410	1790	VENDOR WAY	38.1036882369	-84.5222692994
HLX-7411	H7411	1790	VENDOR WAY	38.1011573864	-84.5229120215
HLX-7412	H7412	1780	VENDOR WAY	38.098961336	-84.5141215807
HLX-7413	H7413	4216	NEWTOWN PIKE	38.1014696615	-84.514811626
HLX-7414	H7414	4068	NEWTOWN PIKE	38.15358129	-84.48955817
HLX-7417	H7417	480	S ASHLAND AVE	38.02891395	-84.49254341
HLX-7419	H7419	1088	KAVENAUGH LN	38.0057539357	-84.4092261323
HLX-7420	H7420	1196	AUTUMN RIDGE DR	38.00684472	-84.4082095
HLX-7421	H7421	3346	LAWSON LN	38.00619902	-84.40968868
HLX-7422	H7422	4262	STARRUSH PL	37.9825091772	-84.3977099639
HLX-7423	H7423	4680	LARKHILL LN	37.9799098983	-84.400415756
HLX-7424	H7424	4698	LARKHILL LN	37.9800667476	-84.3994347131
HLX-7425	H7425	432	LARKHILL CV	37.9804484971	-84.398007344
HLX-7427	H7427	1042	HADDRELL PT	38.0988356897	-84.5198350294
HLX-7428	H7428	2437	PATCHEN WILKES DR	38.0984848353	-84.5191000745
HLX-7429	H7429	1843	BATTERY ST	38.0370528	-84.44275596
HLX-7430	H7430	439	CARLISLE AVE	38.05552703	-84.47012446
HLX-7431	H7431	1842	RACHELS RUN	38.02139923	-84.39273262
HLX-7432	H7432	3285	TRANQUILITY PT	38.02299155	-84.39263058
HLX-7433	H7433	2935	OUR TIBBS TRL	38.10249063	-84.53535389
HLX-7434	H7434	0	TIBBS TRL	38.1085359345	-84.5169348499
HLX-7436	H7436	308	MARIEMONT DR	38.06495741	-84.45827391

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7437	H7437	3039	LAKECREST CIR	38.01490435	-84.55310159
HLX-7440	H7440	922	CITATION BLVD	38.09338553	-84.50329055
HLX-7448	H7448	4174	BRIDGE WATER WAY	37.9870764208	-84.4134587747
HLX-7449	H7449	4198	BRIDGE WATER WAY	37.9877099815	-84.4141924495
HLX-7450	H7450	1050	MARCO LN	38.00506434	-84.40846325
HLX-7451	H7451	1177	AUTUMN RIDGE DR	38.1033582815	-84.5206957564
HLX-7452	H7452	1144	AUTUMN RIDGE DR	38.1042339279	-84.5202518683
HLX-7454	H7454	342	MANITOBA LN	38.0996747436	-84.5210157184
HLX-7455	H7455	284	MANITOBA LN	38.1046906927	-84.5146230113
HLX-7456	H7456	252	MANITOBA LN	37.9684089	-84.52686122
HLX-7459	H7459		VISTA ST	38.02387	-84.52654
HLX-7469	H7469	582	LUCILLE DR	38.1008871773	-84.4173433945
HLX-7470	H7470	2759	MAGNOLIA SPRINGS	38.1025195986	-84.4148660997
HLX-7471	H7471	270	MAGNOLIA SPRINGS	38.101473085	-84.3823946136
HLX-7435		1146	MONARCH ST	38.01853	-84.5581586
HLX-11580		1376	SILVER SPRINGS DR	38.0827287	-84.4816368
HLX-11579		1376	SILVER SPRINGS DR	38.0829707	-84.4824589
HLX-11181		201	AVENUE OF CHAMPIONS	38.0391784	-84.4991464
HLX-11688			ASH GROVE PK	37.9382253	-84.4818907
HLX-100	H100	524	W THIRD ST	38.0558493	-84.4995122
HLX-1038	H1038		EASTLAND PKWY	38.0505367	-84.4445517
HLX-1135	H1135		OLD DOBBIN RD	38.0096159	-84.4962026
HLX-1179	H1179	3307	TATES CREEK RD	37.9970765	-84.4958755
HLX-1590	H1590	387	MANHATTAN DR	38.0622938	-84.4585251
HLX-1730	H1730	3057	MONTAVESTA RD	38.0039946	-84.4932647
HLX-211	H211	100	E MAIN ST	38.0460429	-84.4968272
HLX-2354	H2354	3270	PIMILICO PKWY	37.9900514	-84.4695351
HLX-2686	H2686	3283	CORNWALL DR	37.9967152	-84.5570903
HLX-2692	H2692	619	WORCESTER RD	37.9936815	-84.5475126
HLX-2795	H2795	396	REDDING RD	37.9883101	-84.5043173
HLX-2927	H2927	724	CHERYL LN	38.0301032	-84.532435
HLX-2958	H2958	826	CHERYL LN	38.0327445	-84.5366987
HLX-3357	H3357	1	DEEPWOOD DR	38.0689184	-84.4643327
HLX-350	H350	800	DE ROODE ST	38.0491556	-84.5119169

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3509	H3509	3579	SALISBURY DR	38.0422541	-84.6323466
HLX-3510	H3510	2659	SUSSEX DR	38.0456084	-84.6302911
HLX-3511	H3511	3736	GLOUCESTER DR	38.0462348	-84.6281202
HLX-3512	H3512	2555	WESTMORLAND DR	38.0475139	-84.6318061
HLX-3513	H3513	2621	WESTMORLAND DR	38.045564	-84.6336178
HLX-3515	H3515	3753	SALISBURY DR	38.0438518	-84.6322132
HLX-3588	H3588	3439	HUFFMAN MILL PK	38.1272995	-84.449019
HLX-3970	H3970	251	PRICE RD	38.0637766	-84.5141126
HLX-4101	H4101	400	PASADENA DR	38.0074096	-84.5299762
HLX-4198	H4198	1079	TRENT BLVD	37.9732455	-84.4932049
HLX-4383	H4383	2550	PARIS PK	38.0840642	-84.4414592
HLX-4470	H4470		LEESTOWN RD	38.0775585	-84.5419286
HLX-4551	H4551	3429	SMOKY MOUNTAIN DR	37.976447	-84.453996
HLX-4755	H4755		TRENT BLVD	37.9674432	-84.477937
HLX-4962	H4962	4737	INMAN DR	37.9934307	-84.5957041
HLX-5215	H5215	2200	TERRACE WOODS CT	38.007088	-84.5757135
HLX-5308	H5308	2625	ASHBROOKE DR	37.9887613	-84.5992979
HLX-5514	H5514	2496	SUNGALE CT	37.9951557	-84.5883068
HLX-5641	H5641J		W HICKMAN TREATMENT PLNT	37.9455056	-84.4988104
HLX-5717	H5717	372	SHORESIDE DR	37.9900023	-84.4380969
HLX-2932	H5932	2020	CORIANDER LN	38.0491973	-84.4285465
HLX-6152	H6152	4385	BROOKRIDGE DR	37.9611882	-84.51833
HLX-6546	H6546	3957	WINTHROP DR	37.9678671	-84.5450856
HLX-6933	H6933	990	STAR SHOOT PKWY	38.0220378	-84.4274837
HLX-7277	H7277	3848	CAYMAN LN	38.0191366	-84.3732121
HLX-7295	H7295	504	LUCILLE DR	38.0932302	-84.5392144
HLX-7296	H7296	540	LUCILLE DR	38.0934057	-84.5380013
HLX-7297	H7297		FAYETTE PARK	38.0564168	-84.4915048
HLX-7300	H7300	221	W FIFTH ST	38.0537742	-84.4898541
HLX-7301	H7301	1810	FALLING LEAVES LN	38.0140362	-84.3980536
HLX-7302	H7302	1850	FALLING LEAVES LN	38.0149121	-84.3969873
HLX-7303	H7303	1910	FALLING LEAVES LN	38.0162998	-84.3948803
HLX-7304	H7304	3716	SUNFLOWER ST	38.0172263	-84.3953873
HLX-7305	H7305	1993	FALLING LEAVES LN	38.0159164	-84.3935657

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7306	H7306	2037	FALLING LEAVES LN	38.0150109	-84.3947835
HLX-7307	H7307	2081	FALLING LEAVES LN	38.0144543	-84.3962237
HLX-7308	H7308	3029	FALLING LEAVES LN	38.0132933	-84.3974551
HLX-7309	H7309	319	HANOVER CT	38.0382488	-84.4768869
HLX-7397	H7397	1200	FALCON WOOD WAY	38.1370527	-84.5788223
HLX-745	H745	738	TREMONT AVE	38.0269004	-84.4945186
HLX-7460	H7460		TRACERY OAKS DR	37.9943618	-84.5833755
HLX-7461	H7461	2216	STRASBURG PARK	37.9933238	-84.5837406
HLX-7462	H7462	2328	ARMATURE CT	37.992503	-84.5840144
HLX-7486	H7486	1114	HENDERSON DR	37.951687	-84.5074653
HLX-7487	H7487	1084	HENDERSON DR	37.9521949	-84.5087013
HLX-7488	H7488	1056	HENDERSON DR	37.9526953	-84.5099169
HLX-7489	H7489	175	ASH RAPIDS	38.0870863	-84.5570547
HLX-7493	H7493	2621	OLD ROSE BUD PL	38.0290336	-84.4267047
HLX-7518	H7518	2611	LUCCA PL	38.0297399	-84.4273893
HLX-7535	H7535	1677	VILLA MEDICI PASS	38.033097	-84.4296296
HLX-7536	H7536	1649	VILLA MEDICI PASS	38.0312782	-84.4289199
HLX-7537	H7537	1631	VILLA MEDICI PASS	38.0304454	-84.4287029
HLX-77	H77	237	N LIMESTONE	38.049044	-84.4934768

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Private Hydrants (Fayette County, KY)

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10044	P44	1502	COLLEGE WAY	38.0216310593	-84.5018011551
HLX-10101	P101	3420	BRIERCROFT WAY	38.0330330414	-84.5033965406
HLX-10124	P124	60	WOODLAND AVE	38.0318803986	-84.4994142469
HLX-10125	P125	660	SPORTS CENTER DR	38.0309248692	-84.4983372271
HLX-10126	P126	695	SPORTS CENTER DR	38.0291525832	-84.4989762293
HLX-10127	P127	700	SPORTS CENTER DR	38.028195867	-84.4991499401
HLX-10128	P128	703	SPORTS CENTER DR	38.028789223	-84.5003605026
HLX-10129	P129	693	SPORTS CENTER DR	38.0296167501	-84.500058922
HLX-10130	P130	741	WOODLAND AVE	38.0304359543	-84.5002491349
HLX-10143	P143	1909	BELLEFONTE DR	38.0087021199	-84.5026684857
HLX-10153	P153	1608	UNIVERSITY CT	38.0202724584	-84.5102336056
HLX-10154	P154	5000	UNIVERISTY CT	38.0193170544	-84.5096343386
HLX-10155	P155	1608	UNIVERSITY CT	38.018180117	-84.5098776186
HLX-10156	P156	1610	UNIVERSITY CT	38.0179870296	-84.5108451706
HLX-10157	P157	1612	UNIVERSITY CT	38.0168401352	-84.5101609957
HLX-10175	P175		RUSSELL CAVE RD	38.0667051511	-84.4872228464
HLX-10312	P312	2458	SPURR RD	38.1042966962	-84.5166294793
HLX-10313	P313	2498	SPURR RD	38.1041535618	-84.5184225094
HLX-10413	P413	1070	NEWTOWN PIKE	38.0765850612	-84.4940106227
HLX-10448	P448	1065	RUSSELL CAVE RD	38.066272244	-84.4861316305
HLX-10471	P471	3358	MONTAVESTA RD	37.9972059887	-84.4907775267
HLX-10472	P472	194	HEDGEWOOD CT	38.01402106	-84.4494998882
HLX-10474P	P474		NICHOLASVILLE RD	37.9879441	-84.52715574
HLX-10475P	P475		NICHOLASVILLE RD	37.98766942	-84.52728718
HLX-10478	P478	3401	NICHOLASVILLE RD	37.9885757509	-84.5290344786
HLX-10479	P479	3401	NICHOLASVILLE RD	37.989745386	-84.5290243249
HLX-10480	P480	3401	NICHOLASVILLE RD	37.9905528913	-84.5287707503
HLX-10481	P481	3401	NICHOLASVILLE RD	37.99110237	-84.5281099639
HLX-10482	P482		W REYNOLDS RD	37.9916584017	-84.5275283937
HLX-10483	P483		W REYNOLDS RD	37.9913639686	-84.5265117388
HLX-10484	P484	3301	NICHOLASVILLE RD	37.9907095118	-84.5261795005
HLX-10485	P485	3401	NICHOLASVILLE RD	37.9898157331	-84.5263686363

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10486	P486	3401	NICHOLASVILLE RD	37.9891355448	-84.5264764297
HLX-10489	P489	3401	NICHOLASVILLE RD	37.9891898552	-84.5292305583
HLX-10490P	P490		NICHOLASVILLE RD	37.98846351	-84.52686672
HLX-10582	P582	2628	OUR NATIVE LN	38.0614807593	-84.5699644538
HLX-10584	P584	3640	BOLD BIDDER DR	37.978400577	-84.4712119539
HLX-10585	P585	3640	BOLD BIDDER DR	37.9778544467	-84.4704770988
HLX-10586	P586	3640	BOLD BIDDER DR	37.9778806264	-84.4694299048
HLX-10589	P589	2909	RICHMOND RD	38.0069228496	-84.4472473384
HLX-10590	P590	2909	RICHMOND RD	38.0063786254	-84.4470048417
HLX-10591	P591	2909	RICHMOND RD	38.0057950838	-84.446652341
HLX-10592	P592	2909	RICHMOND RD	38.0051587347	-84.4465206597
HLX-10593	P593		N LOCUST HILL DR	38.0045465159	-84.4469212966
HLX-10594	P594	2925	RICHMOND RD	38.0043875141	-84.4478925659
HLX-10595	P595	2907	RICHMOND RD	38.0048923833	-84.4480473259
HLX-10596	P596	2909	RICHMOND RD	38.0053014173	-84.4474157895
HLX-10597	P597	2909	RICHMOND RD	38.0059364011	-84.4477435255
HLX-10598	P598		N MT TABOR RD	38.0066521338	-84.4484927663
HLX-10609	P609	537	COLUMBIA AVE	38.0318683026	-84.497576249
HLX-10610	P610	1526	COLLEGE WAY	38.0199581445	-84.5026174299
HLX-10611	P611	1483	SUGAR MAPLE LN	38.08733421	-84.48610702
HLX-10612	P612	1616	PINTAIL DR	38.0881596404	-84.4861544926
HLX-10613	P613	1630	WILD TURKEY CT	38.0894718514	-84.4858443035
HLX-10614	P614	1671	SNOW GOOSE CIR	38.0900790836	-84.4865156324
HLX-10615	P615	1660	PINTAIL DR	38.0910009674	-84.4857333642
HLX-10616	P616	1464	SUGAR MAPLE LN	38.0868848784	-84.4844367799
HLX-10617	P617	101	GRIFFIN GATE DR	38.08762612	-84.48716744
HLX-10618	P618	1628	PINTAIL DR	38.0887438091	-84.4861243209
HLX-10619	P619	1641	SILVER PHEASANT CIR	38.0893303699	-84.4867340138
HLX-10620	P620	1652	PINTAIL DR	38.0904596953	-84.4858674099
HLX-10631	P631	3778	KATKAY DR	38.0181822451	-84.3846174247
HLX-10632	P632	4247	AIRPORT RD	38.0289189812	-84.6006783744
HLX-10633	P633	882	MCMEEKIN PL	38.016859209	-84.4970292082
HLX-10634	P634	866	MCMEEKIN PL	38.0179763128	-84.4973274704
HLX-10635	P635	871	MCMEEKIN PL	38.0189950755	-84.4976759125

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10636	P636	1050	GRIFFIN GATE DR	38.0851515945	-84.4868609188
HLX-10638	P638	1020	GRIFFIN GATE DR	38.0864239403	-84.4868564811
HLX-10639	P639	1028	GRIFFIN GATE DR	38.0859147176	-84.487209174
HLX-10642	P642	1074	HEATHER GATE CT	38.0865766234	-84.4853079724
HLX-10645	P645	1059	WATSON CT	38.0849698885	-84.4854746314
HLX-10646	P646	1089	ZOELLER CT	38.0845867869	-84.4840330546
HLX-10647	P647	1118	GRIFFIN GATE DR	38.0842538032	-84.4830605915
HLX-10648	P648	3997	TERRACE WOODS LN	38.005729016	-84.5766647494
HLX-10649	P649	1835	BRIDGESTONE DR	38.0894634923	-84.4840881833
HLX-10650	P650	1867	BRIDGESTONE DR	38.0911483207	-84.4825964365
HLX-10651	P651	1893	BRIDGESTONE DR	38.0920394029	-84.4817261657
HLX-10652	P652	716	MILL LN	37.9765218025	-84.5507255327
HLX-10653	P653	745	MILL RIDGE RD	37.9766434144	-84.5520457678
HLX-10654	P654	892	WILLOW OAK CIR	37.9753005917	-84.5498761657
HLX-10655	P655	864	WILLOW OAK CIR	37.9742595771	-84.5506478239
HLX-10656	P656	1522	SUGAR MAPLE LN	38.0878420685	-84.4882634405
HLX-10657	P657	150	PLAYER DR	38.0884944418	-84.4841494906
HLX-10658	P658	1535	HOGAN DR	38.0883838825	-84.4829087052
HLX-10659	P659	3902	LAUREN WAY	37.9728965676	-84.5136156881
HLX-10660	P660	3958	LAUREN WAY	37.9723969876	-84.5122727283
HLX-10662	P662	1548	PLAYER DR	38.0877221909	-84.4812031971
HLX-10666	P666	3601	BURNING TREE LN	37.997770154	-84.4230792319
HLX-10667	P667	543	GINGERMILL LN	37.9973731067	-84.4242569484
HLX-10668	P668	3613	BURNING TREE LN	37.9965754372	-84.4227002139
HLX-10669	P669	3640	BURNING TREE LN	37.9950955221	-84.4220756799
HLX-10670	P670	419	STADIUM VW	38.0201234337	-84.5015653303
HLX-10671	P671		THE GRANGE LN	38.0828732885	-84.4322905146
HLX-10672	P672	481	THE GRANGE LN	38.0852649233	-84.42876462
HLX-10673	P673	3555	NICHOLASVILLE RD	37.9877349131	-84.5293672424
HLX-10674	P674	3625	NICHOLASVILLE RD	37.9858680698	-84.5296073127
HLX-10675	P675	3625	NICHOLASVILLE RD	37.9863540775	-84.5294476793
HLX-10676	P676	3625	NICHOLASVILLE RD	37.9860448823	-84.5284834582
HLX-10677	P677	3625	NICHOLASVILLE RD	37.9865038032	-84.5277598401
HLX-10678P	P678		NICHOLASVILLE RD	37.98724381	-84.52762715

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10679	P679	1372	SUGAR MAPLE LN	38.084739611	-84.481618967
HLX-10680	P680	1372	ESTATES HILL CIR	38.0848149634	-84.4805191497
HLX-10681	P681	2760	RESEARCH PARK DR	38.1361656383	-84.5071823583
HLX-10682	P682		S LOCUST HILL DR	38.000756844	-84.4515156906
HLX-10683	P683	3154	RICHMOND RD	38.0002002789	-84.449891215
HLX-10684	P684		ELK LAKE DR	37.9995454705	-84.4505990874
HLX-10685	P685	439	GRAYSON LAKE DR	38.0000942235	-84.4488992198
HLX-10686	P686	3180	RICHMOND RD	38.0010244655	-84.448756402
HLX-10687	P687		MAN O WAR BLVD	38.0007584743	-84.447105869
HLX-10688	P688	2407	MEMBERS WAY	38.0203500944	-84.5467453663
HLX-10689	P689	1650	BRYAN STATION RD	38.0601132266	-84.4623802921
HLX-10690	P690	1650	BRYAN STATION RD	38.0588522677	-84.4612507935
HLX-10691	P691	1685	BRYAN STATION RD	38.0596268463	-84.460940025
HLX-10693	P693	1665	MARGATE DR	38.05825	-84.46043
HLX-10695	P695	3737	WEMBLEY LN	37.9558820677	-84.4714498961
HLX-10696	P696	2345	HICKORY LN	37.9578248459	-84.4701564954
HLX-10697	P697	3633	WINDING WOOD LN	37.9581016844	-84.4689431787
HLX-10698	P698	3060	WAVECREST WAY	38.0078194351	-84.4293160984
HLX-10700	P700	690	NEWTOWN PIKE	38.065900412	-84.4972175822
HLX-10701	P701	2541	LINDENHURST LOOP	38.0046917946	-84.4269148549
HLX-10702	P702	1040	AIR FREIGHT DR	38.0334276597	-84.5954674675
HLX-10703	P703	1009	AIR FREIGHT DR	38.035024581	-84.5956342038
HLX-10704	P704	409	AIRPORT RD	38.0355028331	-84.5958993335
HLX-10705	P705	748	ORLEAN CIR	37.9964511534	-84.4548978045
HLX-10706	P706	768	ORLEAN CIR	37.9965282929	-84.4540882204
HLX-10707	P707	1338	SUGAR MAPLE LN	38.0837673253	-84.4802682907
HLX-10708	P708	285	ROSEMONT GDN	38.0216252727	-84.5242777042
HLX-10709	P709	339	HUGUELET DR	38.0326236422	-84.5051029704
HLX-10710	P710	2929	PARIS PIKE	38.0902945791	-84.4331599374
HLX-10712	P712	2770	PALUMBO DR	38.0075869323	-84.4372389536
HLX-10713	P713	4009	AIRPORT RD	38.034817022	-84.5974116212
HLX-10714	P714		NEW CIRCLE RD	37.9898878578	-84.5007434212
HLX-10715	P715	3101	KIRKLEVINGTON DR	37.9889392863	-84.5014627714
HLX-10717	P717	3015	BROOKMONTE LN	37.9649893994	-84.4446667148

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10718	P718	3669	AMICK WAY	37.9987848001	-84.4097288313
HLX-10723	P723	3202	TODDS RD	38.0065515769	-84.4227009352
HLX-10724	P724		MAN O WAR BLVD	38.0075953588	-84.4237797157
HLX-10725	P725		MAN O WAR BLVD	38.008241465	-84.4222336882
HLX-10726	P726	3200	TODDS RD	38.0071161339	-84.42186036
HLX-10728	P728	570	WILDCAT CT	38.0180531416	-84.4994942293
HLX-10729	P729	1165	ASHFORD LN	37.9575403009	-84.4876223245
HLX-10730	P730	3110	WALL ST	38.0178236238	-84.5537792396
HLX-10733	P733	1070	HORSEMANS LN	38.0428122023	-84.5250028647
HLX-10734	P734	1155	HORSEMANS LN	38.0442597148	-84.5259963331
HLX-10735	P735	1625	NICHOLASVILLE RD	38.0215113754	-84.5146080947
HLX-10736	P736	1625	NICHOLASVILLE RD	38.0216951582	-84.5136639133
HLX-10737	P737	4371	SEEGER LN	38.1486153081	-84.5339890772
HLX-10738	P738	3148	MAPLELEAF SQ	38.0083896617	-84.4257015301
HLX-10739	P739	620	ADCOLOR DR	38.0734451155	-84.4978080511
HLX-10740	P740	1103	BEAUMONT CENTRE LN	38.0241066921	-84.5606044586
HLX-10741	P741	1101	BEAUMONT CENTRE LN	38.0228005034	-84.5613025304
HLX-10742	P742	551	THE GRANGE LN	38.0832258632	-84.4271382651
HLX-10743	P743	60	THE GRANGE LN	38.0820227869	-84.4252415092
HLX-10744	P744	3501	ROUNDTABLE WAY	37.9942567292	-84.4397878091
HLX-10745	P745	3629	SQUIRES WOODS WAY	37.9940387606	-84.4386607145
HLX-10748	P748	950	ENTERPRISE DR	38.0602724011	-84.5513075601
HLX-10749	P749	2155	PAUL JONES WAY	38.0175710268	-84.4217648673
HLX-10750	P750	2155	PAUL JONES WAY	38.0179390746	-84.4224286118
HLX-10751	P751	2155	PAUL JONES WAY	38.018738225	-84.4231865303
HLX-10752	P752	2155	PAUL JONES WAY	38.0194932095	-84.4237108491
HLX-10753	P753	2155	PAUL JONES WAY	38.0198083612	-84.4220451273
HLX-10754	P754	2155	PAUL JONES WAY	38.0188695572	-84.4213836044
HLX-10755	P755	1816	ALYSHEBA WAY	38.0181422547	-84.4207786752
HLX-10756	P756	2429	OLDE BRIDGE LN	37.9976654981	-84.5888904153
HLX-10759	P759	3901	RAPID RUN DR	37.9644156335	-84.4843989654
HLX-10760	P760		MAN O WAR BLVD	37.9653263852	-84.4841702534
HLX-10761	P761	3901	RAPID RUN DR	37.9651091529	-84.4855762974
HLX-10762	P762	3901	RAPID RUN DR	37.9644299885	-84.4860847438

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10763	P763		OLD FRANKFORT PIKE	38.0639266597	-84.5490476648
HLX-10764	P764	731	ENTERPRISE DR	38.0629769486	-84.5492128883
HLX-10765	P765	3605	BARROW WOOD LN	37.9981850204	-84.4749008677
HLX-10766	P766	3636	BARROW WOOD LN	37.9977609172	-84.4737922074
HLX-10767	P767	8291	ELK LICK FALLS RD	37.8939806099	-84.3541754834
HLX-10768	P768	3677	RABBITS FOOT TRL	38.0042526606	-84.5671276559
HLX-10769	P769	3660	RABBITS FOOT TRL	38.0036378393	-84.5655862645
HLX-10770	P770	4109	JOHN ALDEN LN	38.0435482808	-84.5646674856
HLX-10771	P771	4196	JOHN ALDEN LN	38.042354758	-84.5651911324
HLX-10772	P772	4173	JOHN ALDEN LN	38.0406741626	-84.566142195
HLX-10773	P773	4137	JOHN ALDEN LN	38.0421973267	-84.5662004193
HLX-10774	P774	1296	CAPE COD CIR	38.0368806581	-84.5661061654
HLX-10775	P775	1205	CAPE COD CIR	38.0380704623	-84.5665537321
HLX-10776	P776	1241	CAPE COD CIR	38.0391511798	-84.5665651919
HLX-10777	P777	3090	HELMSDALE PL	38.0116939002	-84.4216244741
HLX-10779	P779	2143	FORTUNE HILL LN	38.0289200497	-84.4493668136
HLX-10780	P780	2110	FORTUNE HILL LN	38.0292862864	-84.4491440017
HLX-10781	P781	2397	RICHMOND RD	38.0162931035	-84.45753693
HLX-10782	P782	1513	BULL LEA RD	38.0891331828	-84.4941860915
HLX-10783	P783	1509	BULL LEA RD	38.0894481818	-84.4952871314
HLX-10784	P784	1525	BULL LEA RD	38.0905027047	-84.4946154916
HLX-10785	P785	3515	DORAL PL	37.9997143006	-84.4111072243
HLX-10786	P786	3068	FIELDSTONE WAY	38.0129282846	-84.5563730361
HLX-10791	P791	1101	BEAUMONT CENTRE LN	38.0252997572	-84.5598691408
HLX-10792	P792	1847	NEWTOWN PIKE	38.0946038639	-84.4880734315
HLX-10793	P793	1885	NEWTOWN PIKE	38.0957288272	-84.4884657869
HLX-10794	P794	4051	NICHOLASVILLE RD	37.9785754157	-84.529983281
HLX-10795	P795	4013	NICHOLASVILLE RD	37.9796671758	-84.5296034355
HLX-10796	P796	4051	NICHOLASVILLE RD	37.9801859879	-84.5317615661
HLX-10797	P797	4056	NICHOLS PARK DR	37.9799946528	-84.5324896866
HLX-10798	P798	4065	NICHOLS PARK DR	37.9804546517	-84.5333702638
HLX-10799	P799	4055	NICHOLS PARK DR	37.9809038433	-84.5347023342
HLX-10800	P800	4055	NICHOLS PARK DR	37.9796345178	-84.5353032792
HLX-10801	P801	4097	NICHOLS PARK DR	37.9787666547	-84.5341657911

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10802	P802	131	MARKETPLACE DR	37.9784985144	-84.5331557694
HLX-10804	P804	1009	BEAUMONT CENTRE LN	38.0209538539	-84.5609300476
HLX-10805	P805	3181	BEAUMONT CENTRE CIR	38.0219919116	-84.5611809776
HLX-10806	P806	3161	BEAUMONT CENTRE CIR	38.0230802084	-84.5599384584
HLX-10807	P807	3161	BEAUMONT CENTRE CIR	38.0233927235	-84.5591290709
HLX-10808	P808	1020	MAJESTIC DR	38.0227788433	-84.5574943419
HLX-10809	P809	1009	MAJESTIC DR	38.021664344	-84.5568426726
HLX-10810	P810	2848	RYAN CIR	38.0100180788	-84.4457775374
HLX-10811	P811	2808	RYAN CIR	38.0095991586	-84.4463571807
HLX-10812	P812	151	SHORESIDE DR	37.9923635375	-84.4376913802
HLX-10813	P813	3601	BROOKEWIND WAY	37.9919237704	-84.4380667691
HLX-10814	P814	360	BROOKEWIND WAY	37.9910436773	-84.4383909513
HLX-10815	P815	3600	BROOKEWIND WAY	37.991248522	-84.439364982
HLX-10816	P816	3601	BROOKEWIND WAY	37.9920174674	-84.4389393647
HLX-10817	P817	3758	HIDDEN LAKE LN	38.0716513813	-84.376151582
HLX-10818	P818	3720	HIDDEN LAKE LN	38.075457015	-84.381924977
HLX-10820	P820	600	OLD FRANKFORT CIR	38.0651069461	-84.5434216617
HLX-10821	P821	600	OLD FRANKFORT CIR	38.0673346897	-84.5451303346
HLX-10822	P822		OLD FRANKFORT CIR	38.0662957053	-84.5468534758
HLX-10823	P823	2025	OLD FRANKFORT PIKE	38.0652985153	-84.544938317
HLX-10824	P824	4390	CLEARWATER WAY	37.9640365711	-84.4960017763
HLX-10825	P825	4390	CLEARWATER WAY	37.9630146857	-84.4959301392
HLX-10826	P826	4390	CLEARWATER WAY	37.9627353947	-84.4973779863
HLX-10827	P827	3040	TATES CREEK RD	37.9706568734	-84.4915411872
HLX-10828	P828	4030	TATES CREEK RD	37.9714724989	-84.4925918658
HLX-10833	P833	2699	NORTHWIND LN	38.1801915315	-84.4266410925
HLX-10834	P834	3130	MAPLELEAF DR	38.0063706256	-84.427134458
HLX-10838	P838	461	PARK PL	38.0702106473	-84.4828248466
HLX-10839	P839	1701	SAHALEE DR	38.1123004324	-84.4566081663
HLX-10840	P840	1176	APPIAN CROSSING WAY	37.9762014832	-84.4905783666
HLX-10841	P841	2597	KNIGHTSBRIDGE LN	38.0288135887	-84.4474834794
HLX-10842	P842	250	KNIGHTSBRIDGE LN	38.0307780427	-84.4454524829
HLX-10845	P845	3241	BEAUMONT CENTRE CIR	38.01661	-84.56168
HLX-10846	P846	487	DABNEY DR	38.0022319277	-84.4232498642

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10847	P847	365	FURLONG VIEW CT	38.0925889937	-84.5436641547
HLX-10848	P848	331	FURLONG VIEW CT	38.0920298974	-84.544871556
HLX-10850	P850	3380	PARIS PIKE	38.091481447	-84.4186795217
HLX-10851	P851	3380	STEWART PIKE	38.0903804206	-84.4201782431
HLX-10852	P852	3380	PARIS PIKE	38.0900546345	-84.4193982368
HLX-10853	P853	1484	BOARDWALK	38.0701837856	-84.4815918056
HLX-10854	P854	1496	BOARDWALK	38.0709221843	-84.4822828436
HLX-10855	P855	1496	BOARDWALK	38.0707409592	-84.4812837723
HLX-10856	P856	1499	RUSSELL CAVE RD	38.0706115579	-84.4803129478
HLX-10857	P857	1328	RUSSELL CAVE RD	38.0704724233	-84.4791384185
HLX-10858	P858	1311	RUSSELL CAVE RD	38.0691373706	-84.4806668588
HLX-10859	P859	1307	RUSSELL CAVE RD	38.0692602758	-84.4814941776
HLX-10860	P860	1063	DUVAL ST	37.9639688962	-84.4988477945
HLX-10861	P861	4390	CLEARWATER WAY	37.9631176862	-84.4985976586
HLX-10862	P862	2555	MACKENZIE LN	38.0299370045	-84.4475746288
HLX-10863	P863	2534	DANIELLE LN	38.0310212406	-84.4474524318
HLX-10864	P864	2501	MACKENZIE LN	38.0312311157	-84.4461486655
HLX-10866	P866	1423	PINE NEEDLES LN	38.0254166483	-84.5771708657
HLX-10867	P867	1485	PINE NEEDLES LN	38.0245214456	-84.575808531
HLX-10868	P868	1521	PINE NEEDLES LN	38.0236033542	-84.576243957
HLX-10869	P869	1551	PINE NEEDLES LN	38.0241245284	-84.577784318
HLX-10870	P870	522	DABNEY DR	38.000658879	-84.4220265286
HLX-10876	P876	382	MEIJER WAY	37.9948347842	-84.5324696766
HLX-10877	P877	351	MEIJER WAY	37.9958704502	-84.5320399711
HLX-10878	P878	351	MEIJER WAY	37.9960905406	-84.5326446532
HLX-10879	P879	351	MEIJER WAY	37.9966843386	-84.5326782735
HLX-10880	P880	285	RUCCIO WAY	37.9972875766	-84.5320936311
HLX-10881	P881	273	RUCCIO WAY	37.9969415389	-84.531161743
HLX-10882	P882	261	RUCCIO WAY	37.9965900882	-84.5302108404
HLX-10883	P883	220	RUCCIO WAY	37.9960624893	-84.5297860442
HLX-10884	P884	220	RUCCIO WAY	37.9953337152	-84.5302073307
HLX-10885	P885	351	MEIJER WAY	37.9955679028	-84.5312221889
HLX-10886	P886	990	ENTERPRISE DR	38.0607393823	-84.5571210282
HLX-10887	P887	2781	JACQUELYN LN	38.0930730897	-84.5422689085

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10888	P888	3041	BROOKMONTE LN	37.9629242549	-84.4421154221
HLX-10889	P889	2333	ALUMNI PARK PLZ	37.9940855144	-84.4651199767
HLX-10890	P890	4886	BUGGY LN	38.0709946415	-84.3500493363
HLX-10891	P891	4951	BUGGY LN	38.0723327641	-84.3461805852
HLX-10892	P892	3621	RABBITS FOOT TRL	38.005272152	-84.565575447
HLX-10893	P893	3626	RABBITS FOOT TRL	38.0037705633	-84.56435063
HLX-10894	P894	1969	LACLEDE CT	38.0712329542	-84.4543419747
HLX-10895	P895	1945	LACLEDE CT	38.07163955	-84.4532902631
HLX-10937	P937	3800	NICHOLASVILLE RD	37.9828972292	-84.5262202778
HLX-10938	P938	3800	NICHOLASVILLE RD	37.9834664601	-84.5254264581
HLX-10939	P939	3800	NICHOLASVILLE RD	37.982108607	-84.5261274477
HLX-10941	P941	2744	HAYDEN PARK LN	38.089478609	-84.5455498335
HLX-10942	P942	2425	WILLIAMSBURG ESTATES LN	38.0425539991	-84.5582304377
HLX-10943	P943	3401	DERBY LANDING CIR	38.0089069302	-84.5660026121
HLX-10944	P944	3452	DERBY LANDING CIR	38.008007388	-84.5658250691
HLX-10945	P945	148	W TIVERTON WAY	37.9805622479	-84.5322443558
HLX-10946	P946	1586	HILL VIEW PL	38.0450579033	-84.5304742354
HLX-10947	P947	1589	HILLVEW PL	38.0462232466	-84.5304337977
HLX-10948	P948	341	COLUMBIA AVE	38.0346782014	-84.5015039475
HLX-10949	P949	3800	NICHOLASVILLE RD	37.9817957091	-84.5247735886
HLX-10950	P950	3800	NICHOLASVILLE RD	37.9827860459	-84.5240182339
HLX-10951	P951	3800	NICHOLASVILLE RD	37.9829040108	-84.5249162015
HLX-10952	P952	164	JOHNSTON RD	38.0970866613	-84.418961599
HLX-10953	P953	160	JOHNSTON RD	38.0962286073	-84.4203574067
HLX-10954	P954	4575	WILSON LAKE LN	38.0879509544	-84.3601975501
HLX-10955	P955	2101	GARNER LN	38.0834904853	-84.36543337
HLX-10956	P956	430	OSCAR DR	38.0827106985	-84.3622675587
HLX-10957	P957	4322	AMBERGY CT	38.0801998108	-84.3624165847
HLX-10959	P959	1176	APPIAN CROSSING WAY	37.9767687083	-84.4905544723
HLX-10960	P960	3645	APPIAN CROSSING WAY	37.9776215834	-84.4904471748
HLX-10961	P961	180	ELLISON PL	38.0323032133	-84.459313891
HLX-10962	P962	710	ELLISON CT	38.0315622485	-84.4599580181
HLX-10964	P964	626	VINCENT WAY	37.9983272373	-84.5465020369
HLX-10965	P965	3320	CLAYS MILL RD	37.9974108948	-84.5477287349

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-10966	P966	376	NORTHWOOD DR	38.0612825308	-84.4638810832
HLX-10967	P967	273	E NEW CIRCLE RD	38.0622709155	-84.465152264
HLX-10968	P968	183	BRYAN CENTER DR	38.0632308085	-84.4660767517
HLX-10969	P969	181	BRYAN CENTER DR	38.0637174492	-84.4670373004
HLX-10970	P970	2932	BLAIRDON CIR	38.0115387449	-84.4242575243
HLX-10971	P971	80	MICKEY LN	38.0121393015	-84.4250467347
HLX-10972	P972	431	KENTUCKY CT	38.0326419427	-84.4972283323
HLX-10974	P974	205	SIMPSON AVE	38.0357846341	-84.5139005152
HLX-10975	P975	201	SIMPSON AVE	38.0351889489	-84.5139970544
HLX-10977	P977	1156	APPIAN CROSSING WAY	37.9767987185	-84.4922212918
HLX-10978	P978	1795	ALYSHEBA WAY	38.0164193211	-84.4227258051
HLX-10986	P986	861	S BROADWAY	38.0403688605	-84.5145958354
HLX-10987	P987	863	S BROADWAY	38.0410104782	-84.5152698279
HLX-10988	P988	121	MALIBU DR	38.0033864944	-84.5177395059
HLX-10989P	P989		VIRGINIA AVE	38.0349129468	-84.5088082461
HLX-10996	P996	4170	TRADITION WAY	37.9852178935	-84.4213010555
HLX-10997	P997	4132	TRADITION WAY	37.9840090346	-84.4213544504
HLX-10998	P998	4110	TRADITION WAY	37.9833383101	-84.4220904635
HLX-10999	P999	4104	TRADITION WAY	37.9837922137	-84.4228793289
HLX-11000	P1000	117	TRADITION CIR	37.9831037592	-84.4227259371
HLX-11001	P1001	3421	BRIERCROFT WAY	38.0284479653	-84.3865088652
HLX-11002	P1002	3405	BRIERCROFT WAY	38.0293481892	-84.3867736392
HLX-11003	P1003	3720	SLEEPY HOLLOW LN	38.0060375669	-84.3822167543
HLX-11004	P1004	1964	DEER MEADOW TRCE	38.0059083925	-84.3793616649
HLX-11005	P1005	1936	DEER MEADOW TRCE	38.0044723691	-84.380547468
HLX-11006	P1006	1010	MONARCH ST	38.0221694573	-84.5554581783
HLX-11007	P1007	3221	SUMMIT SQUARE PL	38.0011992616	-84.4419506801
HLX-11010	P1010	1145	APPIAN CROSSING WAY	37.9776130104	-84.4934557495
HLX-11011	P1011	261	RUCCIO WAY	37.9975289658	-84.5294803744
HLX-11012	P1012		NEW CIRCLE RD	37.9980912775	-84.5292528267
HLX-11013	P1013	4060	WILSON LAKE LN	38.0810681538	-84.3701632182
HLX-11014	P1014	3872	WILSON LAKE LN	38.0789693397	-84.3731546611
HLX-11015	P1015	2321	SIR BARTON WAY	38.0215523002	-84.4238022518
HLX-11016	P1016	2333	SIR BARTON WAY	38.0224708871	-84.4246227397

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11017	P1017	2337	SIR BARTON WAY	38.0235128756	-84.4254380498
HLX-11018	P1018	2611	PINK PIGEON PKY	38.0227101207	-84.4260767996
HLX-11019	P1019	2639	PINK PIGEON PKY	38.0219172524	-84.4252058245
HLX-11020	P1020	2667	PINK PIGEON PKY	38.0209365688	-84.4244998466
HLX-11021	P1021	121	LEESTOWN CENTER WAY	38.0708862084	-84.5331430439
HLX-11022	P1022	141	LEESTOWN CENTER WAY	38.0702176118	-84.5336887704
HLX-11023	P1023	151	LEESTOWN CENTER WAY	38.0696684314	-84.5341218797
HLX-11024	P1024	191	LEESTOWN CENTER WAY	38.0688012274	-84.5347399385
HLX-11025	P1025	2609	FLYING EBONY DR	38.0204063625	-84.4279886974
HLX-11026	P1026	2629	FLYING EBONY DR	38.0200260338	-84.427482813
HLX-11027	P1027	2646	FLYING EBONY DR	38.0194555227	-84.4268743248
HLX-11028	P1028	2691	FLYING EBONY DR	38.019834717	-84.4260377417
HLX-11029	P1029	2682	FLYING EBONY DR	38.0198223282	-84.4256798152
HLX-11030	P1030	321	OUTRIDER WAY	37.9765729697	-84.5387925577
HLX-11031	P1031	3709	BARROW WOOD LN	37.9977149368	-84.4763128944
HLX-11032	P1032	3681	BARROW WOOD LN	37.9969868452	-84.4769055175
HLX-11033	P1033	3657	BARROW WOOD LN	37.9970580448	-84.4756206697
HLX-11034	P1034	2216	REMINGTON WAY	38.0927943838	-84.5085492294
HLX-11035	P1035	630	SHROPSHIRE AVE	38.0484249083	-84.4783294685
HLX-11036	P1036	612	SHROPSHIRE AVE	38.0479719587	-84.4787490608
HLX-11037	P1037	2626	LONGLEAF PL	38.0052823702	-84.5275319322
HLX-11040	P1040	1798	EDGEWORTH DR	38.0668267379	-84.4579336512
HLX-11041	P1041	1820	EDGEWORTH DR	38.06692	-84.45768
HLX-11042	P1042	1866	EDGEWORTH DR	38.0679806808	-84.4562760636
HLX-11043	P1043	311	SIERRA DR	38.0669520354	-84.4550072158
HLX-11044	P1044	1795	ALYSHEBA WAY	38.01696363	-84.4237142564
HLX-11045	P1045	1795	ALYSHEBA WAY	38.0173074331	-84.4234434269
HLX-11046	P1046	209	OLD TODDS RD	38.0112818719	-84.4534830846
HLX-11047	P1047	209	OLD TODDS RD	38.0109125025	-84.4541007402
HLX-11048	P1048	115	CISCO RD	38.0474736957	-84.5261882528
HLX-11049	P1049	1155	RED MILE PL	38.0469900406	-84.5269851708
HLX-11050	P1050	358	FOREMAN AVE	38.040496995	-84.5118566485
HLX-11051	P1051	354	FOREMAN AVE	38.039503025	-84.5109187381
HLX-11052	P1052	332	FOREMAN AVE	38.0403916701	-84.510945666

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11053	P1053	353	FOREMAN AVE	38.0406344314	-84.5105218229
HLX-11054	P1054	0	S BROADWAY	38.0411169505	-84.5103364079
HLX-11055	P1055	0	S BROADWAY	38.0413328987	-84.5106771362
HLX-11056	P1056	3229	SUMMIT SQUARE PL	38.0005416484	-84.4422261242
HLX-11057	P1057	1050	RUSSELL CAVE RD	38.0648791098	-84.4835189371
HLX-11058	P1058	1109	KEES RD	38.0643776329	-84.4830226296
HLX-11062	P1062	607	HILL N DALE RD	38.0159052013	-84.5389961671
HLX-11063	P1063	4191	TRADITION WAY	37.9856261479	-84.4205366449
HLX-11064	P1064	0	AIR FREIGHT DR	38.0362072636	-84.5963015892
HLX-11065	P1065	3050	HELMSDALE PL	38.0117460755	-84.4219541459
HLX-11070	P1070	355	FOREMAN AVE	38.0410042191	-84.5116006951
HLX-11071	P1071	3050	HELMSDALE PL	38.0126769192	-84.4222144885
HLX-11072	P1072	3250	CLAYS MILL RD	38.00018889	-84.54608677
HLX-11073	P1073	3233	CLAYS MILL RD	37.9994871039	-84.5465143106
HLX-11074	P1074	3050	HELMSDALE PL	38.0130902745	-84.4234362449
HLX-11075	P1075	3050	HELMSDALE PL	38.0126523174	-84.4241192547
HLX-11076	P1076	3050	HELMSDALE PL	38.011632022	-84.4234244743
HLX-11078	P1078	3005	ATKINSON AVE	38.01442845	-84.4216104496
HLX-11079	P1079	3864	PINE RIDGE WAY	37.9830296261	-84.5623826521
HLX-11080	P1080	3824	PINE RIDGE WAY	37.9839781713	-84.5618469876
HLX-11082	P1082	3511	LOCKDALE TER	37.9775595773	-84.5390010773
HLX-11083	P1083	3625	NICHOLASVILLE RD	37.9862786351	-84.5306770499
HLX-11084	P1084	3615	NICHOLASVILLE RD	37.987370641	-84.5310611165
HLX-11085	P1085	3615	NICHOLASVILLE RD	37.9875252972	-84.5300216318
HLX-11086	P1086	383	BUCOTO CT	38.0399929717	-84.5129136377
HLX-11087	P1087	100	CINDY ALY	38.0394569935	-84.5122585736
HLX-11088	P1088	304	FOREMAN AVE	38.0389823274	-84.5113031497
HLX-11089	P1089	360	BUCOTO CT	38.0384485768	-84.5121747248
HLX-11090	P1090	0	S BROADWAY PK	38.0380142898	-84.5116783059
HLX-11091	P1091	1118	OATLANDS PK	37.9966504719	-84.3957445866
HLX-11092	P1092	1115	OATLANDS PK	37.9966528881	-84.3962133105
HLX-11093	P1093	3525	LOCKDALE TER	37.9779418441	-84.5387392921
HLX-11094	P1094	3561	LOCKDALE TER	37.9787883802	-84.5381612154
HLX-11095	P1095	4235	RESERVE RD	37.9964253668	-84.5798675057

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11096	P1096	4204	RESERVE RD	37.9972614222	-84.5792843266
HLX-11097	P1097	4113	RESERVE RD	37.9983979061	-84.5785415942
HLX-11098	P1098	1176	JONES TRL	37.978149778	-84.4926015253
HLX-11099	P1099	3855	LOCHDALE TER	37.9728067091	-84.5418532248
HLX-11100	P1100	3855	LOCHDALE TER	37.9727836356	-84.5409240568
HLX-11101	P1101	3855	LOCHDALE TER	37.97323747	-84.5403439787
HLX-11102	P1102	2257	BARNWELL LN	38.0199358806	-84.5719333237
HLX-11103	P1103	3204	CASHIERS CT	38.0198875298	-84.5728761658
HLX-11104	P1104	2283	BARNWELL LN	38.0208605116	-84.5729326177
HLX-11105	P1105	3204	LINVILLE LN	38.0219447072	-84.5743374202
HLX-11106	P1106	3225	LINVILLE LN	38.0210196915	-84.5747243651
HLX-11107	P1107	0	MAN O WAR BLVD	38.0199374156	-84.5747688981
HLX-11108	P1108	2377	PROFESSIONAL HEIGHTS DR	38.0038539673	-84.517511589
HLX-11109	P1109	3050	HELMSDALE PL	38.0127584884	-84.4233590958
HLX-11111	P1111	3615	NICHOLASVILLE RD	37.9869394292	-84.5307695368
HLX-11112	P1112	3863	DYLAN PL	37.9824752644	-84.5532554706
HLX-11113	P1113	3838	NADIA LN	37.9819003154	-84.5526697097
HLX-11114	P1114	3816	NADIA LN	37.9813346395	-84.5522084796
HLX-11115	P1115	3805	DYLAN PL	37.981339933	-84.551848496
HLX-11116	P1116	3813	DYLAN PL	37.9819516303	-84.5516457911
HLX-11117	P1117	3837	DYLAN PL	37.9822434049	-84.5524154084
HLX-11118	P1118	2033	BRYANT RD	38.0179132439	-84.4094783864
HLX-11119	P1119	1730	BRYANT RD	38.0144815137	-84.4188937942
HLX-11120	P1120	2220	EXECUTIVE DR	38.0448623109	-84.4275907986
HLX-11121	P1121	4045	CASTLEBRIDGE LN	37.9931074474	-84.402408072
HLX-11122	P1122	3812	THADEUS CT	37.9922286287	-84.4028188276
HLX-11123	P1123	401	CASTLEBRIDGE LN	37.9916362375	-84.4031782713
HLX-11124	P1124	625	MULDOON DR	37.9917344071	-84.4040903695
HLX-11125	P1125	601	MULDOON DR	37.9910103624	-84.4041770318
HLX-11126	P1126	652	DURNING RD	37.9908037683	-84.4052607369
HLX-11127	P1127	640	DURNING RD	37.9915163078	-84.405607182
HLX-11128	P1128	60	DURNING RD	37.9907516227	-84.4058804244
HLX-11129	P1129	3802	CASTLEBRIDGE LN	37.9904914881	-84.4066290588
HLX-11130	P1130	501	DONNINGTON CT	37.9895837183	-84.4072840905

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11131	P1131	1113	MCATEE RUN	37.9531550231	-84.4851517176
HLX-11132	P1132	1116	MCATEE RUN	37.9536663046	-84.4847132823
HLX-11133	P1133	490	MCATEE LN	37.9532377777	-84.4840307199
HLX-11134	P1134	4909	MCATEE LN	37.9532336098	-84.482957959
HLX-11135	P1135	0	MAN O WAR BLVD	38.0068954515	-84.4274071991
HLX-11136	P1136	1152	HORSEMANS LN	38.0430604682	-84.5276042879
HLX-11137	P1137	3801	MALL RD	37.9860851019	-84.5310244463
HLX-11138	P1138	3801	MALL RD	37.986328131	-84.531682606
HLX-11139	P1139	3801	MALL RD	37.9845028841	-84.5325804111
HLX-11140	P1140	3801	MALL RD	37.9837339089	-84.532799626
HLX-11141	P1141	380	MALL RD	37.9842057049	-84.5316908247
HLX-11142	P1142	3750	MALL RD	37.9849599377	-84.5309125728
HLX-11143	P1143	137	ROJAY DR	37.9849344154	-84.5296568359
HLX-11144	P1144	3801	NICHOLASVILLE CENTRE DR	37.9843542299	-84.5294628204
HLX-11145	P1145	3600	NICHOLASVILLE CENTRE DR	37.9836868094	-84.5297729485
HLX-11146	P1146	3600	MALL RD	37.9840405805	-84.5308651014
HLX-11147	P1147	3801	MALL RD	37.983474092	-84.5314186747
HLX-11148	P1148	1028	MILLCREEK CT	37.978938624	-84.491033454
HLX-11149	P1149	3650	LEISURE CREEK CT	37.9795769156	-84.4913213838
HLX-11150	P1150	3757	BRANHAM PK	37.9841334995	-84.436029399
HLX-11151	P1151	446	WESTON PK	37.9833485377	-84.4354492203
HLX-11152	P1152	468	WESTON PK	37.981967934	-84.4340602775
HLX-11153	P1153	489	WESTON PK	37.980851338	-84.4335743276
HLX-11154	P1154	508	WESTON PK	37.9798277926	-84.4324653618
HLX-11155	P1155	3857	BRANHAM PK	37.9798085945	-84.4338000975
HLX-11157	P1157	4393	OLD HARRODSBURG RD	37.9969499397	-84.5856644798
HLX-11158	P1158	0	OLD HARRODSBURG RD	37.9970830906	-84.5846828233
HLX-11159	P1159	2261	MARKET GARDEN LN	38.0227923978	-84.4083237665
HLX-11160	P1160	2269	MARKET GARDEN LN	38.0231881221	-84.4078134489
HLX-11161	P1161	0	MAN O WAR BLVD	38.0236767783	-84.407507506
HLX-11162	P1162	0	MAN O WAR BLVD	38.0243923257	-84.406570883
HLX-11163	P1163	2920	POLO CLUB BLVD	38.0238559764	-84.4060580096
HLX-11164	P1164	2920	POLO CLUB BLVD	38.0234328476	-84.4067743262
HLX-11165	P1165	471	GREENDALE RD	38.0825877748	-84.5342185267

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11166	P1166	2556	SIR BARTON WAY	38.0365757732	-84.421870078
HLX-11167	P1167	2348	GREY LAG WAY	38.0378570515	-84.4211212505
HLX-11168	P1168	2358	GREY LAG WAY	38.0387130779	-84.4210618844
HLX-11169	P1169	100	YANKEE ST	38.0399471203	-84.4214075525
HLX-11170	P1170	2416	WINCHESTER RD	38.040543497	-84.4220304435
HLX-11171	P1171	2345	ELKHORN RD	38.0403222063	-84.4229991337
HLX-11172	P1172	2300	GREY LAG WAY	38.0392420537	-84.4229289698
HLX-11173	P1173	2320	GREY LAG WAY	38.038558906	-84.4229545826
HLX-11174	P1174	2342	GREY LAG WAY	38.0376112337	-84.4229145734
HLX-11175	P1175	2360	GREY LAG WAY	38.0367266146	-84.4228690378
HLX-11176	P1176	2353	GREY LAG WAY	38.0369748814	-84.4238060265
HLX-11177	P1177	2317	GREY LAG WAY	38.0392679037	-84.4241437041
HLX-11178	P1178	2321	ELKHORN RD	38.0403149609	-84.423926337
HLX-11181	P1181	232	COLLEGE VIEW AVE	38.0392801732	-84.4992924147
HLX-11182	P1182	179	TOWN SQUARE PK	38.0658387692	-84.5320844647
HLX-11183	P1183	523	WELLINGTON WAY	37.9993661315	-84.5389861114
HLX-11185	P1185	1171	APPIAN CROSSING WAY	37.9775212033	-84.4912237657
HLX-11186	P1186	2250	THUNDERSTICK DR	38.0441040046	-84.4266485602
HLX-11187	P1187	150	RICHMOND PLZ	38.008711828	-84.459188718
HLX-11188	P1188	0	OLD FRANKFORT PIKE	38.0587375378	-84.5358612947
HLX-11189	P1189	1568	OLD FRANKFORT PIKE	38.057858829	-84.5364276268
HLX-11203	P1203	759	VICKI WAY	38.0194412017	-84.4359544804
HLX-11204	P1204	740	VICKI WAY	38.0189297103	-84.4369077483
HLX-11205	P1205	0	SIR BARTON WAY	38.0385170525	-84.4269373542
HLX-11206	P1206	0	WAR ADMIRAL WAY	38.0397161627	-84.425997393
HLX-11207	P1207	0	WAR ADMIRAL WAY	38.0401741103	-84.4255621439
HLX-11208	P1208	0	WAR ADMIRAL WAY	38.040628238	-84.4262155506
HLX-11209	P1209	2217	WAR ADMIRAL WAY	38.0405919594	-84.4277722538
HLX-11210	P1210	0	WAR ADMIRAL WAY	38.0394957257	-84.4275869349
HLX-11211	P1211	0	WAR ADMIRAL WAY	38.0401337053	-84.426844304
HLX-11212	P1212	0	E 6TH ST	38.0473998449	-84.4783212274
HLX-11222	P1222	109	W MAXWELL ST	38.0438525742	-84.5013229414
HLX-11226	P1226	4464	STUART HALL BLVD	37.9807197656	-84.4076018597
HLX-11227	P1227	929	MCCLANAHAN LN	38.0115199904	-84.4472244232

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11228	P1228	951	MCCLANAHAN LN	38.0119023103	-84.4466051175
HLX-11229	P1229	3432	RABBITS FOOT TRL	38.0074276306	-84.5605062206
HLX-11230	P1230	1994	FT HARRODS DR	38.0081374725	-84.5614656689
HLX-11231	P1231	3438	RABBITS FOOT TRL	38.0074143492	-84.5612593286
HLX-11232	P1232	3456	RABBITS FOOT TRL	38.0068462179	-84.5620643628
HLX-11233	P1233	3494	RABBITS FOOT TRL	38.0061273041	-84.5627631003
HLX-11234	P1234	3512	RABBITS FOOT TRL	38.0068943805	-84.5630898823
HLX-11235	P1235	3524	RABBITS FOOT TRL	38.0071300799	-84.5638036387
HLX-11252	P1252	1301	RUSSELL SPRINGS DR	38.0837329764	-84.4879682136
HLX-11253	P1253	1324	RUSSELL SPRINGS DR	38.0841691197	-84.4873671383
HLX-11254	P1254	709	NEWTOWN SPRINGS DR	38.0838549238	-84.4864619347
HLX-11255	P1255	1025	GREENDALE RD	38.0940921961	-84.5279961285
HLX-11256	P1256	1025	GREENDALE RD	38.0935330279	-84.5279009592
HLX-11257	P1257	320	BEACON ST	38.0185836679	-84.5597666367
HLX-11258	P1258	3216	BEACON ST	38.0177020943	-84.5604433026
HLX-11259	P1259	3230	BEACON ST	38.0169747037	-84.5603565721
HLX-11260	P1260	3246	BEACON ST	38.0161137269	-84.5596471958
HLX-11261	P1261	330	BEACON ST	38.0162075133	-84.558605734
HLX-11262	P1262	3320	BEACON ST	38.0172411712	-84.5595994136
HLX-11263	P1263	3336	BEACON ST	38.0179845314	-84.5591347276
HLX-11264	P1264	440	GREENDALE RD	38.0819837605	-84.5345526703
HLX-11265	P1265	3750	MALL RD	37.9852968651	-84.5302552001
HLX-11266	P1266	1506	WINNERS CIR	38.0434118991	-84.5737551008
HLX-11267	P1267	1532	WINNERS CIR	38.0424679112	-84.5749004456
HLX-11268	P1268	3814	WENTWORTH PL	37.9862188673	-84.4309655598
HLX-11269	P1269	3844	WENTWORTH PL	37.9871443427	-84.4308862637
HLX-11270	P1270	3865	WENTWORTH PL	37.9867696649	-84.4301824202
HLX-11271	P1271	3893	WENTWORTH PL	37.9857580776	-84.4300301117
HLX-11272	P1272	2548	SIR BARTON WAY	38.0367042971	-84.4211296461
HLX-11278	P1278	553	HANNON WAY	37.9904414081	-84.405174265
HLX-11279	P1279	513	HANNON WAY	37.9898695948	-84.4059015096
HLX-11280	P1280	501	HANNON WAY	37.9904079032	-84.4060073644
HLX-11281	P1281	623	BLANDVILLE RD	37.9912927692	-84.4069450627
HLX-11282	P1282	3921	CASTLEBRIDGE LN	37.9905829186	-84.4074181263

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11283	P1283	3909	CASTLEBRIDGE LN	37.9901213173	-84.4080609796
HLX-11284	P1284	529	LORENZO PL	37.9895887301	-84.4085834272
HLX-11285	P1285	508	LORENZO PL	37.9889232759	-84.4091915319
HLX-11286	P1286	483	W REYNOLDS RD	37.9964778461	-84.5373761319
HLX-11287	P1287	736	LOCHMERE PL	37.992986638	-84.4077430182
HLX-11288	P1288	701	LOCHMERE PL	37.9936605351	-84.4064993861
HLX-11289	P1289	101	MAPLE RIDGE PL	37.9941764363	-84.4074066108
HLX-11294	P1294	1032	EASTLAND DR	38.0444485208	-84.4647328172
HLX-11295	P1295	1030	EASTLAND DR	38.0443910791	-84.464083585
HLX-11296	P1296	1044	EASTLAND DR	38.0436030164	-84.464197274
HLX-11297	P1297	209	OLD TODDS RD	38.0116588521	-84.4529763603
HLX-11298	P1298	209	OLD TODDS RD	38.0119077049	-84.4533008111
HLX-11299	P1299	4620	WALNUT CREEK DR	37.986089556	-84.4186513137
HLX-11300	P1300	4610	WALNUT CREEK DR	37.9864347875	-84.4191900891
HLX-11301	P1301	802	BULL LEA RUN	38.090880926	-84.4899879273
HLX-11302	P1302	2037	BUCK LN	38.0843783941	-84.536046698
HLX-11303	P1303	516	BUCK PL	38.0851010814	-84.5356633519
HLX-11304	P1304	541	BUCK PL	38.0861258578	-84.5352491081
HLX-11305	P1305	525	BUCK PL	38.0854649145	-84.5352202489
HLX-11307	P1307	3901	HARRODSBURG RD	38.0022706887	-84.5747937851
HLX-11308	P1308	1794	ALEXANDRIA DR	38.0380721242	-84.551422469
HLX-11309	P1309	250	W LOUDON AVE	38.0631357	-84.48944725
HLX-11310	P1310	2737	WIGGINGTON PT	38.1020800041	-84.5381708822
HLX-11311	P1311	2927	OUR TIBBS TRL	38.1025125523	-84.5365190816
HLX-11312	P1312	0	MAN O WAR BLVD	38.0099568837	-84.4219498143
HLX-11314	P1314	935	RED MILE CT	38.0410093391	-84.52526465
HLX-11315	P1315	623	ADDISON AVE	38.0403410483	-84.5261114918
HLX-11316	P1316	701	ADDISON AVE	38.0407634265	-84.5267738035
HLX-11317	P1317	317	HANNA TODD PL	37.9809348679	-84.4152371758
HLX-11318	P1318	0	RED MILE CT	38.0415565861	-84.5254778624
HLX-11319	P1319	0	RED MILE CT	38.0402017719	-84.5256068847
HLX-11320	P1320	3121	DAILY PL	38.1106293635	-84.5347884035
HLX-11321	P1321	2416	SIR BARTON WAY	38.0293741086	-84.4191643371
HLX-11322	P1322	935	RED MILE CT	38.0413604162	-84.5261780947

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11325	P1325	524	ANGLIANA AVE	38.0446254722	-84.515088282
HLX-11326	P1326	2217	RESERVE CT	37.9959415177	-84.581497382
HLX-11327	P1327	490	CURRY AVE	38.0440523532	-84.5153470166
HLX-11328	P1328	524	ANGLIANA AVE	38.0442995191	-84.5156776199
HLX-11329	P1329		E 5TH ST	38.0459989729	-84.4808992674
HLX-11330	P1330	2220	BUENA VISTA RD	38.0425241424	-84.4275985016
HLX-11331	P1331	509	GOLDON TROPHY TRL	37.9780910509	-84.5396959511
HLX-11332	P1332	486	GOLDON TROPHY TRL	37.9787795886	-84.5391358821
HLX-11333	P1333	1351	NEWTOWN PIKE	38.083476932	-84.492697831
HLX-11334	P1334	1351	NEWTOWN PIKE	38.083773334	-84.4937458712
HLX-11335	P1335	1351	NEWTOWN PIKE	38.0843777641	-84.4937852929
HLX-11336	P1336	2233	JAGGIE FOX WAY	38.0969919075	-84.518814775
HLX-11337	P1337		OLD ROSEBUD RD	38.0294824128	-84.4218736641
HLX-11338	P1338	2443	SIR BARTON WAY	38.0300333334	-84.421731176
HLX-11339	P1339	149	TOWNE WALK	38.0680380947	-84.5323300353
HLX-11340	P1340		TOWNE WALK	38.0677581986	-84.5329275533
HLX-11341	P1341	150	OLD TOWN WALK	38.067331208	-84.5333955181
HLX-11343	P1343	2132	LARKSPUR DR	38.0251827577	-84.5421652564
HLX-11344	P1344	4057	MOONCOIN WAY	37.9697942076	-84.5193742484
HLX-11345	P1345	4057	MOONCOIN WAY	37.969882781	-84.5205230562
HLX-11346	P1346	4057	MOONCOIN WAY	37.9705089878	-84.5208345066
HLX-11347	P1347	4057	MOONCOIN WAY	37.9712558555	-84.5195994534
HLX-11348	P1348	4057	MOONCOIN WAY	37.9703826734	-84.5194003499
HLX-11349	P1349	3475	LYON DR	38.0113213401	-84.5708576029
HLX-11350	P1350	3475	LYON DR	38.0121766658	-84.5703976394
HLX-11351	P1351	105	SAND LAKE DR	37.9994234959	-84.4459662446
HLX-11352	P1352	105	SAND LAKE DR	37.9993026651	-84.4465913194
HLX-11353	P1353	105	SAND LAKE DR	37.9989467957	-84.4472774319
HLX-11354	P1354	3555	RICE RD	38.0447871918	-84.6162768261
HLX-11355	P1355	3557	RICE RD	38.0449155981	-84.6166579974
HLX-11356	P1356	594	ANGLIANA AVE	38.0451369046	-84.5165839096
HLX-11357	P1357	539	ANGLIANA AVE	38.0470731203	-84.5156869687
HLX-11358	P1358	763	BENNETT AVE	38.0464284119	-84.5168304073
HLX-11359	P1359	662	ANGLIANA AVE	38.0465389724	-84.5160633538

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11360	P1360	598	ANGLIANA AVE	38.0454250065	-84.5156567161
HLX-11361	P1361	157	OLD TOWN WALK	38.0668384908	-84.5340025214
HLX-11362	P1362	615	ADCOLOR DR	38.073568401	-84.4970169749
HLX-11363	P1363	605	ADCOLOR DR	38.0740960791	-84.4976177817
HLX-11364	P1364	1035	CORINTHIAN CT	38.0044149683	-84.4120147787
HLX-11365	P1365	340	DESTIN CT	38.0035081205	-84.4133155913
HLX-11366	P1366	2356	INNOVATION DR	38.1011573864	-84.5229120215
HLX-11367	P1367	2440	INNOVATION DR	38.1036882369	-84.5222692994
HLX-11368	P1368	2378	INNOVATION DR	38.1023756025	-84.5229937431
HLX-11369	P1369	1261	N YARNALLTON PIKE	38.1336651003	-84.5711274325
HLX-11370	P1370	1024	MAJESTIC DR	38.0231766644	-84.5581039162
HLX-11371	P1371	4340	GEORGETOWN RD	38.1448418071	-84.5367680542
HLX-11372	P1372	1035	RED MILE RD	38.0396857099	-84.522912088
HLX-11373	P1373	1194	UNITY DR	38.0391821161	-84.5234676673
HLX-11374	P1374	1202	DEVONSHIRE AVE	38.0383028195	-84.522443498
HLX-11375	P1375	1191	DEVONSHIRE AVE	38.0387206015	-84.5218513331
HLX-11376	P1376	2940	BOB WHITE TRL	38.0265110823	-84.393726657
HLX-11377	P1377	2992	BOB WHITE TRL	38.0257931843	-84.3928040018
HLX-11378	P1378	3016	BOB WHITE TRL	38.024983591	-84.3918430012
HLX-11379	P1379	3038	BOB WHITE TRL	38.0243310484	-84.3910471927
HLX-11380	P1380	3072	BOB WHITE TRL	38.0245786566	-84.3896738043
HLX-11381	P1381	3089	BOB WHITE TRL	38.0253939805	-84.3894270766
HLX-11382	P1382	1833	BROWNING TRCE	38.0265790144	-84.3899765221
HLX-11383	P1383	1817	BROWNING TRCE	38.026062739	-84.3908181016
HLX-11384	P1384	156	LEADER AVE	38.0337302192	-84.5107098646
HLX-11385	P1385	1199	DEVONSHIRE AVE	38.0385536881	-84.5220897648
HLX-11386	P1386	1562	FRANKFORT PIKE	38.0590465559	-84.5350286184
HLX-11387	P1387	1558	OLD FRANKFORT PIKE	38.0581178277	-84.5354178854
HLX-11388	P1388	1558	OLD FRANKFORT PK	38.0571802327	-84.5358331065
HLX-11389	P1389	1550	OLD FRANKFORT PK	38.0562592856	-84.5344373383
HLX-11390	P1390	1556	OLD FRANKFORT PIKE	38.0573733179	-84.5336001561
HLX-11391	P1391	1515	FRANKFORT PIKE	38.0583228309	-84.5330576806
HLX-11393	P1393	3566	RABBITS FOOT TRL	38.0054320813	-84.5639603704
HLX-11394	P1394	1737	RUSSELL CAVE RD	38.0196209276	-84.480193391

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11433	P1433	764	LOCHMERE PL	38.0271557389	-84.4846089528
HLX-11434	P1434	791	LOCHMERE PL	37.9937905735	-84.4088315518
HLX-11446	P1446	776	LIBERTY RIDGE LN	38.0183964972	-84.4379497087
HLX-11447	P1447	757	LIBERTY RIDGE LN	38.0179277533	-84.4382721284
HLX-11448	P1448	751	LIBERTY RIDGE LN	38.017490816	-84.4379279111
HLX-11449	P1449	1720	LIBERTY RIDGE LN	38.0179584983	-84.4365422813
HLX-11450	P1450	1139	UNITY DR	38.0399004065	-84.5245462627
HLX-11451	P1451	777	BENNETT AVE	38.0468078882	-84.5170711324
HLX-11454	P1454	6413	POLO CLUB LN	38.025185947	-84.4048049218
HLX-11455	P1455	4057	MOONCOIN WAY	37.9694518233	-84.5210964679
HLX-11458	P1458	852	CAMPBELL LN	38.012940039	-84.4243660794
HLX-11460	P1460	157	SAUNIER ST	38.0509312192	-84.4990777398
HLX-11461	P1461	3104	WALL ST	38.0172642774	-84.5526505199
HLX-11462	P1462	4832	GUMBERT RD	38.0409972631	-84.6228069458
HLX-11463	P1463	1000	GUMBERT RD	38.039326901	-84.6228225585
HLX-11464	P1464	1200	GUMBERT RD	38.036974863	-84.6128276062
HLX-11465	P1465	1400	GUMBERT RD	38.0371221823	-84.6112725389
HLX-11466	P1466	1500	GUMBERT RD	38.0372237967	-84.6102574417
HLX-11468	P1468	3280	KEITHSHIRE WAY	37.9933384733	-84.5455380292
HLX-11469	P1469	3280	KEITHSHIRE WAY	37.9925477941	-84.545886108
HLX-11470	P1470	3280	KEITHSHIRE WAY	38.0164737996	-84.4331233454
HLX-11471	P1471	3280	KEITHSHIRE WAY	37.99276393	-84.5431201
HLX-11473	P1473	3280	KEITHSHIRE WAY	38.0197141307	-84.4245096463
HLX-11481	P1481	1097	DUVAL ST	37.96611076	-84.49666599
HLX-11483	P1483	3583	RABBITS FOOT TRL	38.00536632	-84.56457213
HLX-11487	P1487	1848	ALYSHEBA WAY	38.01926034	-84.41917624
HLX-11488	P1488	509	ADDISON AVE	38.03859208	-84.52311736
HLX-11489	P1489	2307	CLAYS MILL RD	38.01795879	-84.53610838
HLX-11490	P1490	612	CARDINAL LN	38.01850668	-84.53742258
HLX-11491	P1491	2530	SIR BARTON WAY	38.03492998	-84.42156529
HLX-11492	P1492	1052	CROSS KEYS RD	38.03932051	-84.55037866
HLX-11493	P1493	2330	RUCCIO WAY	37.99584335	-84.52835619
HLX-11497	P1497	170	LOUIE PL	38.0220378337	-84.4274837005
HLX-11498	P1498	158	LOUIE PL	38.0210755846	-84.4406582955

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11499	P1499	158	LOUIE PL	38.0230955674	-84.4427482116
HLX-11500	P1500		W LOUDON AVE	38.0312040281	-84.4797903061
HLX-11501	P1501	3100	WALL ST	38.0304054728	-84.4792749364
HLX-11502	P1502	2813	SANDERSVILLE RD	38.0297240513	-84.4781874646
HLX-11503	P1503	1923	MERCER RD	38.0306157253	-84.4793779174
HLX-11504	P1504		OLD ROSEBUD RD	38.0319532398	-84.4783820694
HLX-11505	P1505	1617	VILLA MEDICI PASS	38.0311741413	-84.4776906621
HLX-11509	P1509	249	WALTON AVE	38.0320252927	-84.4755653245
HLX-11510	P1510	605	ANGLIANA AVE	38.0308105392	-84.4765646455
HLX-11511	P1511	629	ANGLIANA WAY	38.0329503839	-84.4788287602
HLX-11512	P1512	631	ANGLIANA AVE	38.0321671701	-84.4726085764
HLX-11513	P1513	671	ANGLIANA AVE	38.0326686186	-84.4738434428
HLX-11514	P1514	657	ANGLIANA AVE	38.0468247	-84.51392404
HLX-11515	P1515	655	ANGLIANA AVE	38.0345028639	-84.4962797967
HLX-11516	P1516	4161	VICTORIA WAY	38.0359215841	-84.4942789755
HLX-11517	P1517	4161	VICTORIA WAY	37.96890464	-84.52159297
HLX-11518	P1518	256	FRISCO DR	38.0348606372	-84.4935532545
HLX-11519	P1519	249	FRISCO DR	38.0360589519	-84.4931409466
HLX-11520	P1520	180	ALAMO DR	38.033009711	-84.4898721102
HLX-11521	P1521	138	ALAMO DR	38.0342238103	-84.4880328842
HLX-11522	P1522	21	RENO DR	38.0350522021	-84.4869401933
HLX-11523	P1523		SIR BARTON WAY	38.0335583748	-84.4843107023
HLX-11524	P1524	2391	SIR BARTON WAY	38.0343151877	-84.4833053051
HLX-11525	P1525	2391	SIR BARTON WAY	38.0352028917	-84.4846518312
HLX-11526	P1526	4199	EVANGELINE LN	37.9858792225	-84.4100230197
HLX-11527	P1527	4377	EVANGELINE LN	37.9867506159	-84.4101364598
HLX-11529	P1529	3215	CORNWALL DR	38.0332341235	-84.4797534932
HLX-11530	P1530	3215	CORNWALL DR	38.0341909671	-84.4770042271
HLX-11531	P1531	3215	CORNWALL DR	38.0343572933	-84.4748572221
HLX-11540	P1540		OLD ROSEBUD RD	38.0336999747	-84.4739423042
HLX-11541	P1541	2521	OLD ROSEBUD RD	38.0345336238	-84.473037141
HLX-11542	P1542	2531	OLD ROSEBUD RD	38.0351138256	-84.473612874
HLX-11543	P1543		OLD ROSEBUD RD	38.0357895473	-84.4727963557
HLX-11544	P1544	858	MALABU DR	38.0364672537	-84.4737054562

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11555	P1555	2203	INNOVATION DR	38.0370272927	-84.4756103984
HLX-11556	P1556	313	BURLEY AVE	38.0363911595	-84.4935010471
HLX-11558	P1558	4229	EVANGELINE LN	37.9850796997	-84.4105460377
HLX-11559	P1559	3600	WINTHROP DR	37.97905977	-84.54232216
HLX-11560	P1560	3600	WINTHROP DR	38.0369524443	-84.4929933273
HLX-11561	P1561		MAN O WAR BLVD	38.0376812957	-84.4896796031
HLX-11562	P1562		MAN O WAR BLVD	38.0371935282	-84.4878234519
HLX-11564	P1564	4285	EVANGELINE LN	37.9862615507	-84.4112012671
HLX-11565	P1565	2718	POLO CLUB BLVD	38.0236767783	-84.407507506
HLX-11566	P1566	1640	FITZGERALD CT	38.0238559764	-84.4060580096
HLX-11567	P1567	1562	FITZGERALD CT	38.0231881221	-84.4078134489
HLX-11568	P1568	1500	FITZGERALD CT	38.0292693832	-84.3996251299
HLX-11569	P1569	1400	FITZGERALD CT	38.0299808512	-84.4204006705
HLX-11570	P1570		MAN O WAR BLVD	38.0294824128	-84.4218736641
HLX-11571	P1571		MAN O WAR BLVD	38.0060306642	-84.4898432429
HLX-11572	P1572		MAN O WAR BLVD	38.0066756964	-84.4881653867
HLX-11573	P1573	1530	FITZGERALD CT	38.0040831912	-84.4881266989
HLX-11574	P1574	1520	FITZGERALD CT	38.0050211298	-84.4854997124
HLX-11577	P1577		MARGARET DR	38.02412	-84.46176
HLX-11578	P1578	2117	ST MATHILDA DR	38.02308	-84.46098
HLX-11581	P1581	3548	RABBITS FOOT TRL	38.0082242598	-84.4849634029
HLX-11582	P1582	3530	RABBITS FOOT TRL	38.0078910135	-84.4816807522
HLX-11584	P1584	579	BOONESBORO AVE	38.04138	-84.48305
HLX-11585	P1585	615	BOONESBORO AVE	38.04039	-84.48224
HLX-11588	P1588	840	HAYS BLVD	37.99446331	-84.400804
HLX-11589	P1589	840	HAYS BLVD	37.9909683897	-84.4010716358
HLX-11590	P1590	840	HAYS BLVD	37.9902082477	-84.4006056715
HLX-11591	P1591	1555	HAYS BLVD	37.99029786	-84.40015465
HLX-11592	P1592	2034	HARRODSBURG RD	38.021576083	-84.3802910448
HLX-11594	P1594	2023	HARRODSBURG RD	38.0270240741	-84.3791536088
HLX-11595	P1595	707	LANE ALLEN RD	38.0271297983	-84.3845224332
HLX-11605	P1605	1024	GREENDALE RD	38.0187475681	-84.3780947772
HLX-11606	P1606	1024	GREENDALE RD	38.0200561184	-84.39869476
HLX-11607	P1607	1024	GREENDALE RD	38.0284479653	-84.3865088652

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11624	P1624	3402	COUNTRY CLUB DR	38.0272897988	-84.397068636
HLX-11625	P1625	3416	COUNTRY CLUB DR	38.0259422358	-84.3975688377
HLX-11674	P1674		WILDCAT CT	38.0133521089	-84.4433241988
HLX-11675	P1675		WILDCAT CT	38.0104957928	-84.4431145661
HLX-11472	P1472	3280	KEITHSHIRE WAY	37.992374	-84.5438015
HLX-11474	P1474	238	LOCUST FARM RD	38.1044217	-84.5729438
HLX-11475	P1475	238	LOCUST FARM RD	38.1058874	-84.5718427
HLX-11476	P1476	238	LOCUST FARM RD	38.1064007	-84.5714665
HLX-11477	P1477	238	LOCUST FARM RD	38.106891	-84.5709829
HLX-11478	P1478	238	LOCUST FARM RD	38.1066279	-84.5698529
HLX-11479	P1479	4260	GEORGETOWN RD	38.1440437	-84.537113
HLX-11480	P1480	4260	GEORGETOWN RD	38.1437348	-84.5360857
HLX-11557	P1557	2429	MEMBERS WAY	38.0195734	-84.5480011
HLX-11601	P1601		SUNNY SIDE TRL	38.0855694	-84.560492
HLX-11615	P1615	2200	TRACERY OAKS DR	37.9944224	-84.585743
HLX-11616	P1616	2200	TRACERY OAKS DR	37.9937972	-84.5857998
HLX-11617	P1617	2200	TRACERY OAKS DR	37.9934317	-84.5865836
HLX-11618	P1618	2200	TRACERY OAKS DR	37.9942011	-84.584299
HLX-11619	P1619	2200	TRACERY OAKS DR	37.9935014	-84.5845405
HLX-11620	P1620	2411	ARMATURE CT	37.992892	-84.5848743
HLX-11623	P1623	2100	PATCHEN LAKE LN	38.0417426	-84.4397981
HLX-11629	P1629	2123	PATCHEN LAKE LN	38.0416262	-84.4387573
HLX-11630	P1630	2181	PATCHEN LAKE LN	38.0416254	-84.4379275
HLX-11632	P1632		LARUE	37.9790362	-84.5254088
HLX-11633	P1633		FINN WAY	37.9795553	-84.52703
HLX-11634	P1634		FINN WAY	37.9787738	-84.527138
HLX-11635	P1635		SUMMIT AT FRITZ FARM	37.9789435	-84.5262611
HLX-11636	P1636	200	LARUE	37.9785351	-84.5252463
HLX-11637	P1637		PENDLETON	37.9779734	-84.5257944
HLX-11638	P1638		LARUE	37.9777666	-84.5263873
HLX-11639	P1639		SUMMIT AT FRITZ FARM	37.977942	-84.5276663
HLX-11640	P1640		SUMMIT AT FRITZ FARM	37.9780562	-84.5290217
HLX-11641	P1641		FINN WAY	37.9772612	-84.5280105
HLX-11642	P1642		SUMMIT AT FRITZ FARM	37.9773235	-84.5273451

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-11643	P1643		SUMMIT AT FRITZ FARM	37.976911	-84.5263596
HLX-11644	P1644	120	SUMMIT AT FRITZ FARM	37.9771501	-84.5260911
HLX-11645	P1645	120	SUMMIT AT FRITZ FARM	37.9766426	-84.5258433
HLX-11646	P1646		PENDLETON	37.9767375	-84.5252467
HLX-11653	P1653		FINN WAY	37.9765074	-84.5279223
HLX-11654	P1654		FINN WAY	37.9757426	-84.5275708
HLX-11655	P1655		FINN WAY	37.976115	-84.5271636
HLX-11656	P1655		ROWAN	37.9754331	-84.5267957
HLX-11657	P1657		ROWAN	37.9758653	-84.5264009
HLX-11659	P1659	250	HARRISON	37.97539	-84.5255502
HLX-11660	P1660	250	HARRISON	37.9750419	-84.5246429
HLX-11661	P1661	250	HARRISON	37.974472	-84.5231937
HLX-11664	P1664	840	HAYES BLVD	37.989924	-84.4016247

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Privately Owned Hydrants in Fayette County, KY

ACAD_ID	PR_STREET	IR_STREET
PO1	LIGGETT & MYERS	MANCHESTER ST
PO2	LIGGETT & MEYERS	MANCHESTER ST
PO3	LIGGETT & MEYERS	MANCHESTER ST
PO5	UK DAIRY FARM	ROSE ST
PO15	CHARLOTTEE CT	HOWARD ST
PO16	CHARLOTTE CT	HOWARD ST
PO17	HOUSING PROJECT	CHARLOTTE CT
PO18	HOUSING PROJECT	CHARLOTTE CT
PO19	HOUSING PROJECT	CHARLOTTE CT
PO20	NICHOLASVILLE RD	FOREST RD
PO21	KTHBA	STAND
PO22	PUMP STATION GROUNDS	FILTERS
PO23	KAWC GARAGE AREA	RICHMOND RD
PO24	KAWC	
PO25	PUMP STATION SETTLE BLDG	FILTER BLDG
PO26	KAWC PUMP STATION GROUNDS	WASH WATER STANDPIPE
PO28	UK COOLING & HEAT PLANT	UK MAINTENANCE BLDG
PO29	HOLLOW CREEK RD	BRITTANY SQUARE APTS
PO30	NORTHERN ELEMENTARY	TETBURY LN
PO31	LEXINGTON MALL	MCALPINS
PO32	LEXINGTON MALL	APPLEBEE'S
PO33	LEXINGTON MALL	E & W ENT COUNTY MARKET
PO34	LEXINGTON MALL	REAR MALL
PO35	LEXINGTON MALL	REAR MALL
PO36	MANOR APT	REGENCY RD
PO37	YORK STATION TANK	LINE TANK GUARDS
PO38	HOUSING PROJECT	GEORGETOWN ST
PO39	HOUSING PROJECT	NEWTOWN PK

ACAD_ID	PR_STREET	IR_STREET
PO40	PICKWAY MANOR APTS	VICTORIA WAY
PO41	PICKWAY MANOR APTS	VICTORIA WAY
PO42	TOWNE PROPERTIES INC	COMMODORE DR
PO43	TOWNE PROPERTIES INC	DOVE RUN RD
PO44	TOWNE PROPERTIES INC	DOVE RUN RD
PO588	BRIAR HILL RD	BPS VAULT LID
PO47	PATCHEN PLACE	PATCHEN DR
PO48	INDUSTRY DEVELOPMENT CORP	FAIRMAN RD
PO49	GAINESWAY VILLAGE	CENTER PRKWY
PO50	GAINESWAY VILLAGE	CENTER PRKWY
PO51	HARRODSBURG SQUARE APTS	SHAKER DR
PO52	PARKWAY PLAZA APTS	ROGERS RD
PO53	PARKWAY PLAZA APTS	ROGERS RD
PO54	DON JACOBS OLDS	TORONADO RD
PO55	SOUTH PARK SHOPPING CTR	HILL DEPT STORE
PO56	SOUTH PARK SHOPPING CTR	
PO57	SOUTH PARK SHOPPING CTR	VALUE VILLAGE
PO58	SOUTH PARK SHOPPING CTR	
PO59	TATES CREEK HIGH SCHOOL	CENTRE PKWY
PO60	CROSS ROADS DEVELOPMENT	EAST REYNOLDS RD
PO61	CROSS ROADS DEVELOPMENT	EAST REYNOLDS RD
PO62	CROSS ROADS DEVELOPMENT	EAST REYNOLDS RD
PO63	CROSS ROADS DEVELOPMENT	EAST REYNOLDS RD
PO64	TATES CREEK HIGH SCHOOL	CENTRE PKWY
PO68	NORTH FRATERNITY ROW	FRATERNITY HOUSE
PO69	SOUTH FRATERNITY ROW	FRATERNITY HOUSE
PO73	BRYAN STATION HIGH SCHOOL	EDGEWORTH DR
PO74	EASTLAND SHOPPING CTR	INDUSTRY RD
PO75	EASTLAND SHOPPING CTR	INDUSTRY RD
PO76	EASTLAND SHOPPING CTR	INDUSTRY RD

ACAD_ID	PR_STREET	IR_STREET
PO81	NORTHLAND SHOPPING CTR	NORTH BROADWAY
PO82	NORTHLAND SHOPPING CTR	NORTH BROADWAY
PO83	NORTHLAND SHOPPING CTR	NORTH BROADWAY
PO84	TATES CREEK SCHOOL	CENTRE PKWY
PO85	TATES CREEK SCHOOL	CENTRE PKWY
PO86	TATES CREEK SCHOOL	CENTRE PKWY
PO88	FASIG-TIPTON	NEWTOWN PK KY 922
PO89	FASIG-TIPTON	NEWTOWN PK KY 922
PO90	FASIG-TIPTON	NEWTOWN PK KY 922
PO91	SEE P18S	SCOTT COUNTY
PO92	BLUE MEADOWS APTS	MEDLOCK RD
PO93	BLUE MEADOWS APTS	MEDLOCK RD
PO94	GREEN HOUSE APTS	MACADAM DR
PO95	GREEN HOUSE APTS	MACADAM DR
PO96	GREEN HOUSE APTS	MACADAM DR
PO97	GREEN HOUSE APTS	MACADAM DR
PO98	RED LOBSTER	NICHOLASVILLE RD
PO99	GARDEN SPRINGS SHOPPING CTR	
PO100	GARDEN SPRINGS SHOPPING CTR	
PO101	GARDEN SPRINGS SHOPPING CTR	
PO102	BLUEGRASS AIRPORT	TERMINAL BLDG
PO103	BLUEGRASS AIRPORT	TERMINAL BLDG
PO104	BLUEGRASS AIRPORT	TERMINAL BLDG
PO105	BLUEGRASS AIRPORT	TERMINAL BLDG
PO106	BLUEGRASS AIRPORT	BOHMER AIR ASSOCIATES
PO107	BLUEGRASS AIRPORT	BOHMER AIR ASSOCIATES
PO108	BLUEGRASS AIRPORT	HANGER
PO109	CHANDLER MEDICAL CTR	ROSE ST
PO110	CHANDLER MEDICAL CTR	ROSE ST
PO111	VETERINARY BARN	ROSE ST

ACAD_ID	PR_STREET	IR_STREET
PO112	CHANDLER MEDICAL CTR	ROSE ST
PO113	VETERANS HOSPITAL	ROSE ST
PO114	VETERANS HOSPITAL	UNIVERSITY DR
PO115	CHANDLER MEDICAL CTR	ROSE ST
PO116	COOLING & HEATING PLANT	ROSE ST
PO117	COOLING & HEATING PLANT	ROSE ST
PO118	JOURNALISM BLDG	ROSE ST
PO119	ELECTRICAL ENGR BLDG	ROSE ST
PO120	FINE ARTS BLDG	ROSE ST
PO121	GILIS BLDG	ROSE ST
PO122	ENGR QUAD BLDG	ROSE ST
PO123	ADMINISTRATION BLDG	ROSE ST
PO124	OFFICE TOWER BLDG	ROSE ST
PO125	WHITE CLASS ROOM	ROSE ST
PO126	KASTLE HALL	ROSE ST
PO127	PENCE HALL	ROSE ST
PO129	MANNING SILVER FARM	
PO130	MANNING SILVER FARM	
PO131	MANNING SILVER FARM	
PO132	MANNING SILVER FARM	
PO133	SEATON CENTER	
PO134	LEXINGTON TECH INSTITUTE	
PO135	TOBACCO & HEALTH RESEARCH	UNIVERSITY DR
PO136	TOBACCO & HEALTH RESEARCH	UNIVERSITY DR
PO137	HG ORRELL DEVELOPMENT CO	LAKEVIEW DR
PO138	GLENN DORRAH HEALTH CTR	NEWTOWN PK KY 922
PO139	GLENN DORRAH HEALTH CTR	NEWTOWN PK KY 922
PO140	GLENN DORRAH HEALTH CTR	NEWTOWN PK KY 922
PO141	GLENN DORRAH HEALTH CTR	NEWTOWN PK KY 922
PO142	SEED HOUSE	COOPER DR

ACAD_ID	PR_STREET	IR_STREET
PO143	COLDSTREAM FARM	SPINDLETOP FARM
PO144	COLDSTREAM FARM	SPINDLETOP FARM
PO145	COLDSTREAM FARM	SPINDLETOP FAR
PO146	COLDSTREAM FARM	SPINDLETOP FARM
PO148	COLDSTREAM FARM	SPINDLETOP FARM
PO149	COLDSTREAM FARM	SPINDLETOP FARM
PO150	COLDSTREAM FARM	SPINDLETOP FARM
PO151	COLDSTREAM FARM	SPINDLETOP FARM
PO152	COLDSTREAM FARM	SPINDLETOP FARM
PO153	COLDSTREAM FARM	SPINDLETOP FARM
PO154	COLDSTREAM FARM	SPINDLETOP FARM
PO155	COLDSTREAM FARM	SPINDLETOP FARM
PO156	COLDSTREAM FARM	SPINDLETOP FARM
PO157	COLDSTREAM FARM	SPINDLETOP FARM
PO158	COLDSTREAM FARM	SPINDLETOP FARM
PO159	COLDSTREAM FARM	SPINDLETOP FARM
PO163	NORTH PARK SHOPPING CTR	NEW CIRCLE RD
PO164	NORTH PARK SHOPPING CTR	NEW CIRCLE RD
PO165	NORTH PARK SHOPPING CTR	NEW CIRCLE RD
PO168	NORTH PARK SHOPPING CTR	NEW CIRCLE RD
PO169	NORTH PARK SHOPPING CTR	NEW CIRCLE RD
PO175	LIBERTY HEIGHTS APTS	LIBERTY RD
PO176	LIBERTY HEIGHTS APTS	LIBERTY RD
PO177	LEESTOWN JR HIGH SCHOOL	LEESTOWN RD US 421
PO178	GATE HOUSE APTS	LIBERTY RD
PO179	SOUTHLAND VILLAGE APTS	REGENCY CIR (SOUTH SIDE)
PO180	AMBERLY PLACE APTS	VERSAILLES RD US 60
PO181	AMBERLY PLACE APTS	VERSAILLES RD US 60
PO182	VETERANS ADMIN HOSPITAL	UNIVERSITY DR
PO185	UK RESEARCH CTR	RESEARCH PARK DR

ACAD_ID	PR_STREET	IR_STREET
PO186	LEXINGTON COUNTRY CLUB	PARIS PK
PO187	RESEARCH PARK DR	IRON WORKS RD
PO188	LANSLOWNE EAST APTS	MONTAVESTA RD
PO189	LANSLOWNE EAST APTS	MONTEAVESTA RD
PO190	VO-TECH SCHOOL	LEESTOWN RD US 421
PO191	MEDICAL HEIGHTS	NICHOLASVILLE RD US 27
PO192	MEADOWTHORPE SCHOOL	NEW CIRCLE RD
PO193	SOUTHERN ELEMENTARY SCHOOL	WILSON DOWNING RD
PO194	SOUTHERN ELEMENTARY SCHOOL	WILSON DOWNING RD
PO195	BOOKER T WASHINGTON SCHOOL	HOWARD ST
PO196	GATE HOUSE APTS	LIBERTY RD
PO197	VO-TECH SCHOOL	VO-TECH RD
PO198	VO-TECH SCHOOL	VO-TECH RD
PO199	JAMESTOWN APTS	DINSMORE RD
PO202	LAREDO VILLAGE APTS	EDDING RD
PO203	LAREDO VILLAGE APTS	REDDING RD
PO204	LAREDO VILLAGE APTS	REDDING RD
PO206	FOODTOWN WOODHILL PLAZA	PALUMBO DR
PO207	ASHLAND PLACE	GEORGETOWN RD
PO208	TATES CREEK APTS	ARMSTRONG MILL RD
PO209	TATES CREEK APTS	ARMSTRONG MILL
PO210	TATES CREEK APTS	ARMSTRONG MILL RD
PO211	WESTCHESTER ON THE CIRCLE	LEESTOWN RD US 421
PO212	WESTCHESTER ON THE CIRCLE	LEESTOWN RD US 421
PO213	WESTCHECTER ON THE CIRCLE	LEESTOWN RD US 421
PO215	KIRKWOOD VILLAGE APTS	HILL CALL
PO216	KIRKWOOD VILLAGE APTS	KIRKLEVINGTON DR
PO218	GAINESWAY VILLAGE APTS	CENTRE PKWY
PO219	SOUTH PARK SHOPPING CTR	CANARY RD (CINEMA)
PO220	SOUTH PARK SHOPPING CTR	CANARY RD

ACAD_ID	PR_STREET	IR_STREET
PO221	WALNUT HILL APTS	TRENT CIRCLE
PO222	WALNUT HILL APTS	TRENT CIRCLE
PO223	COLLEGE OF NURSING	ROSE ST
PO224	NAVAL RESERVE VO-TECH RD	LEESTOWN RD US 421
PO225	NAVAL RESERVE VO-TECH RD	LEESTOWN RD US 421
PO226	NAVAL RESERVE VO-TECH RD	LEESTOWN RD US 421
PO227	BRIARWOOD APTS	CTENTRE PKWY
PO228	BRIARWOOD APTS	CENTR PKWY
PO229	SHERATON INN	ATHENS BOONESBORO RD
PO230	CHURCH OF GOD	VERSAILLES RD US 60
PO231	CHURCH OF GOD	VERSAILLES RD US 60
PO232	CHURCH OF GOD	VERSAILLES RD US 60
PO233	PEBBLE BROOK APTS	HOLLOW CREEK RD
PO234	MAIN CHANCE MANSION	NEWTOWN RD KY 922
PO235	FARRINGTON APTS	LAREDO DR
PO237	FARRINGTON APTS	LAREDO DR
PO238	HORSE PARK FARM FOOD CTR	IRON WORKS RD
PO239	HORSE PARK FARM STABLE	IRON WORKS RD
PO240	HORSE PARK FARM HORSE BARN	IRON WORKS RD
PO241	HORSE PARK FARM HORSE BARN	IRON WORKS RD
PO242	HORSE PARK FARM STABLE	IRON WORKS RD
PO243	HORSE PARK FARM SNACK BAR	IRON WORKS RD
PO244	HORSE PARK FARM VISTOR CTR	IRON WORKS RD
PO245	HORSE PARK FARM FOALING BARN	IRON WORKS RD
PO246	HORSE PARK FARM SNACK BAR	IRON WORKS RD
PO247	HORSE PARK FARM STAFF HOUSE	IRON WORKS RD
PO249	PARK HILLS APTS	YELLOWSTONE PKWY
PO250	PARK HILLS APTS	YELLOWSTONE PKWY
PO251	PARK HILLS APTS	YELLOWSTONE PKWY
PO252	BIG ELM COUNTRY CLUB	PARKWAY DR

ACAD_ID	PR_STREET	IR_STREET
PO253	UK HOUSING PROJECT	SHAWNEETOWN
PO254	UK HOUSING PROJECT	SHAWNEETOWN
PO255	UK HOUSING PROJECT	SHAWNEETOWN
PO256	BRYAN STATION JR HIGH SCHOOL	EASTIN RD
PO257	BRYAN STATION JR HIGH SCHOOL	EASTIN RD
PO258	UK FOOTBALL STADIUM	WEST SIDE
PO259	UK FOOTBALL STADIUM	WEST SIDE
PO260	UK FOOTBALL STADIUM	WEST SIDE
PO261	HOUSING PROJECT	MCCULLOUGH
PO262	HOUSING PROJECT	APPIAN WAY
PO263	HOUSING PROJECT	APPIAN WAY
PO264	HOUSING PROJECT	APPIAN WAY
PO265	RED ROOF INN	HAGGARD LN
PO266	STABLES	RED MILE RD
PO267	STABLES	RED MILE RD
PO268	HARRODS HILL APTS	FORT HARRODS DR
PO269	HARRODS HILL APTS	FORT HARRODS DR
PO270	UK FOOTBALL STADIUM	EAST SIDE
PO271	UK FOOTBALL STADIUM	EAST SIDE
PO272	UK FOOTBALL STADIUM	EAST SIDE
PO273	COOLAVIN APTS	WEST SIXTH ST
PO274	COOLAVIN APTS	WEST SIXTH ST
PO275	COOLAVIN APTS	WEST SIXTH ST
PO276	COOLAVIN APTS	WEST SIXTH ST
PO277	ASHLAND OIL INC	COMPUTER CTR
PO278	ASHLAND OIL INC	COMPUTER CTR
PO279	ASHLAND OIL INC	ADMINISTRATION BLDG CTR
PO280	ASHLAND OIL INC	COMPUTER CTR
PO281	TOWNHOUSES PLAINVIEW RD	FOLKSTONE DR
PO282	DOWNING PLACE APTS	SPANGLER DR

ACAD_ID	PR_STREET	IR_STREET
PO283	DOWNING PLACE APTS	SPANGLER DR
PO284	DOWNING PLACE APTS	SPANGLER DR
PO285	OPERA HOUSE SQUARE	WEST SHORT ST
PO286	UK DORMITORY	COMPLEX DR
PO287	UK DORMITORY	COMPLEX DR
PO288	UK DORMITORY	COMPLEX DR
PO289	COUNCIL OF STATE GOVERNMENT	IRON WORKS RD
PO290	COUNCIL OF STATE GOVERNMENT	IRON WORKS RD
PO292	UK DORMITORY	COMPLEX DR
PO293	SPORT CTR PRACTICE FIELD	COOPER DR
PO294	AGRICULTURE SCIENCE BLDG	ROSE ST
PO295	AGRICULTURE SCIENCE BLDG	ROSE ST
PO296	MCVEY HALL	ROSE ST
PO298	WHITE CLASS ROOM BLDG	ROSE ST
PO299	LAFFERTY HALL	ROSE ST
PO300	NORTH KIRKLEVINGTON	MALABU DR
PO301	KIRKLEVINGTON SOUTH	KIRKLEVINGTON DR
PO302	KIRKLEVINGTON SOUTH	KIRKLEVINGTON DR
PO303	BISCAYNE APTS	NORTH BROADWAY
PO304	ROLLING RIDGE APTS	TATES CREEK RD
PO305	ROLLING RIDGE APTS	TATES CREEK RD
PO306	LANSDOWNE SHOPPING CTR	TATES CREEK RD
PO307	K MART	NICHOLASVILLE RD
PO308	TOWNHOUSE DEVELOPMENT	NICHOLASSVILLE RD
PO309	OLDE TOWN APTS	MERRICK DR
PO310	OLDE TOWN APTS	MILAM LN
PO311	OLDE TOWN APTS	MILAM LN
PO312	OLDE TOWN APTS	MERRICK DR
PO313	OLDE TOWN APTS	MILAM CT
PO314	OLDE TOWN APTS	MERRICK DR

ACAD_ID	PR_STREET	IR_STREET
PO315	OLDE TOWN APTS	MERRICK CT
PO316	US POST OFFICE	NANDINO BLVD
PO317	US POST OFFICE	NANDINO BLVD
PO318	US POST OFFICE	NANDINO BLVD
PO319	US POST OFFICE	NANDINO BLVD
PO320	PARK HILLS SHOPPING CTR	PIMLICO PKWY
PO321	PARK HILLS SHOPPING CTR	PIMLICO PKWY
PO322	TGI FRIDAY	NICHOLASVILLE RD
PO323	BUS GARAGE	LIBERTY RD
PO324	HENRY CLAY HIGH SCHOOL	LAKESHORE DR
PO325	WINBURN ELEMENTARY SCHOOL	WINBURN DR
PO326	RED MILE TROTS	RED MILE RD
PO327	RED MILE TROTS	RED MILE RD
PO328	HORSE PARK FARMS VISTOR CTR	IRON WORKS RD
PO329	HORSE PARK FARMS BARN	IRON WORKS RD
PO330	EASTRIDGE PLACE	CUSTER DR
PO331	EASTRIDGE PLACE	CUSTER DR
PO332	EASTRIDGE PLACE	CUSTER DR
PO333	EASTRIDGE PLACE	CUSTER DR
PO334	EASTRIDGE PLACE	CUSTER DR
PO335	WT YOUNG PROPERTY	DELONG RD
PO336	WT YOUNG PROPERTY	DELONG RD
PO337	WT YOUNG PROPERTY	DELONG RD
PO338	CHINOE CREEK APTS	CREEKWOOD DR
PO339	CHINOE CREEK APTS	CREEKWOOD DR
PO340	CHINOE CREEK APTS	CREEKWOOD DR
PO341	CHINOE VILLAGE SHOPPING CTR	CHINOE RD
PO342	CHINOE VILLAGE SHOPPING CTR	CHINOE RD
PO343	CHINOE VILLAGE SHOPPING CTR	CHINOE RD
PO344	BURNING BUSH TOWN HOUSE	DARBY CREEK

ACAD_ID	PR_STREET	IR_STREET
PO345	CHINOE CREEK APTS	CREEKWOOD DR
PO346	COLDSTREAM FARM	SERVICE RD POULTRY BLDG
PO347	VILLAGE EAST	WINCHESTER RD
PO348	VILLAGE EAST	WINCHESTER RD
PO349	VILLAGE EAST	WINCHESTER RD
PO350	VILLAGE EAST	WINCHESTER RD
PO351	STEEPLECHASE APT	LYNDENHURST DR
PO352	OLD FARM APTS	APPIAN WAY
PO353	OLD FARM APTS	APPIAN WAY
PO354	OLD FARM APTS	APPIAN WAY
PO355	OLD FARM APTS	APPIAN WAY
PO356	OLD FARM APTS	APPIAN WAY
PO357	OLD FARM APTS	APRIAN WAY
PO358	OLD FARM APTS	APPIAN WAY
PO359	VALLEY FIELD APTS	PALUMBO DR
PO360	VALLEY FIELD APTS	PALUMBO DR
PO361	BROOKVIEW APTS	GARDEN SPRINGS EXT
PO363	BROOKVIEW APTS	GARDEN SPRINGS EXT
PO363	see P1322	RED MILE CT
PO364	REGENCY DEVELOPMENT	WEST LOWRY LN
PO365	REGENCY DEVELOPMENT	WEST LOWRY LN
PO366	DARBY CREEK TOWN HOUSES	DARBY CREEK CT
PO367	DARBY CREEK TOWN HOUSES	TODDS RD
PO368	LFUCG	BAINBRIDGE CT
PO369	THE MANSION	NICHOLASVILLE RD
PO370	THE MANSION	NICHOLASVILLE RD
PO371	THE MANSION	NICHOLASVILLE RD
PO372	THE MANSION	NICHOLASVILLE RD
PO373	THE MANSION	NICHOLASVILLE RD
PO374	PARKERS MILL TANK SITE	PARKERS MILL RD

ACAD_ID	PR_STREET	IR_STREET
PO375	BLUEGRASS AIRPORT	
PO376	BLUEGRASS AIRPORT	
PO377	BLUEGRASS AIRPORT	
PO378	BLUEGRASS AIRPORT	
PO379	BLUEGRASS AIRPORT	
PO380	BLUEGRASS AIRPORT	
PO381	BLUEGRASS AIRPORT	CORP HANGAR
PO382	BLUEGRASS AIRPORT	
PO383	LONGWOOD APTS	EUREKA SPRINGS DR
PO384	SPRINGHOUSE APTS	BELLEAU WOOD DR
PO385	SPRINGHOUSE APTS	BELLEAU WOOD DR
PO386	SPRINGHOUSE APTS	BELLEAU WOOD DR
PO387	SPRINGHOUSE APTS	BELLEAU WOOD DR
PO389	FASIG-TIPTON	NEWTOWN PK
PO390	FASIG-TIPTON	NEWTOWN PK
PO391	FASIG-TIPTON	NEWTOWN PK
PO392	FASIG-TIPTON	NEWTOWN PK
PO393	TATES CREEK TANK	TATES CREEK RD
PO394	RESIDENCE INN	NEWTOWN PK
PO395	CEDARWOOD APTS	ALSAB DR
PO396	SUNCHASE APTS	LOCUST HILL DR
PO397	SUNCHASE APTS	LOCUT HILL DR
PO398	SUNCHASE APTS	RIO DOSA DR
PO399	SUNCHASE APTS	RIO DOSA DR
PO400	SQUIRES APTS	SQUIRES RD
PO401	SQUIRES APT	SQUIRES RD
PO402	STONEY BROOK FARM APTS	MT TABOR RD
PO403	STONEY BROOK FARM APTS	MT TABOR RD
PO404	STONEY BROOK FARM APTS	MT TABOR RD
PO405	THE VILLAGE	LOCUST HILL RD

ACAD_ID	PR_STREET	IR_STREET
PO406	THE VILLAGE	LOCUST HILL RD
PO407	THE VILLAGE	LOCUST HILL RD
PO408	MAIN ST BAPTIST MANOR	DARBY CREEK
PO409	ECONO LODGE	ATHENS BOONESBORO RD
PO410	FAYETTE PLACE	WEST TIVERTON WAY
PO411	FAYETTE PLACE	WEST TIVERTON WAY
PO413	THE HILL AT TATES CREEK LTD	REDDING RD
PO414	THE HILL AT TATES CREEK LTD	REDDING RD
PO415	THE ADVANTAGES	ARMSTRONG MILL RD
PO416	THE ADVANTAGES	ARMSTRONG MILL RD
PO417	THE ADVANTAGES	ARMSTRONG MILL RD
PO418	THE ADVANTAGES	ARMSTRONG MILL RD
PO419	THE ADVANTAGES	ARMSTRONG MILL RD
PO420	GLUCK EQUINE RESEARCH CTR	SOUTH LIMESTONE
PO421	LEXINGTON GREEN	NICHOLASVILLE RD US 27
PO422	LEXINGTON GREEN	NICHOLASVILLE RD US 27
PO423	LEXINGTON GREEN	NICHOLASVILLE RD
PO424	LEXINGTON GREEN	NICHOLASVILLE RD US 27
PO425	LEXINGTON GREEN	NICHOLASVILLE RD
PO426	LEXINGTON GREEN	NICHOLASVILLE RD US 27
PO427	LEXINGTON GREEN	NICHOLASVILLE RD US 27
PO428	ASHWOOD TOWNHOMES	RED COACH TRAIL
PO429	ASHWOOD TOWNHOMES	RED COACH TRAIL
PO430	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO431	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO432	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO433	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO434	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO435	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO436	BLACKBURN CORRECTION COMPLEX	SPURR RD

ACAD_ID	PR_STREET	IR_STREET
PO437	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO438	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO439	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO440	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO441	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO442	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO443	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO444	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO445	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO446	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO447	BLACKBURN CORRECTION COMPLEX	SPURR RD
PO448	BUCKHORN SHOPPING PLAZA	BUCKHORN DR
PO449	TATES CREEK CTR	TATES CREEK RD
PO450	TATES CREEK CTR	TATES CREEK RD
PO451	TATES CREEK CTR	TATES CREEK RD
PO452	TATES CREEK CTR	TATES CREEK RD
PO453	TATES CREEK CTR	TATES CREEK RD
PO454	TATES CREEK CTR	TATES CREEK RD
PO455	TATES CREEK CTR	TATES CREEK RD
PO456	TATES CREEK CTR	TATES CREEK RD
PO457	ANIMAL CARE BLDG	MEDICAL CENTER RD
PO459	HANDI STORAGE	WEST TIVERTON WAY
PO460	PARK PLACE	TATES CREEL RD
PO461	PARK PLACE	TATES CREEK RD
PO462	PARK PLACE	TATES CREEK RD
PO463	PARK PLACE	TATES CREEK RD
PO464	SHRINERS HOSPITAL	RICHMOND RD US 25
PO465	SHRINERS HOSPITAL	RICHMOND RD US 25
PO466	SHRINERS HOSPITAL	RICHMOND RD US 25
PO467	FOOTBALL PRACTICE FIELD	COOPER DR

ACAD_ID	PR_STREET	IR_STREET
PO468	SOCCER FIELD	COOPER DR
PO469	SPORT CENTER BLDG	COOPER DR
PO472	GENERAL TELE CO	NICHOLASVILLE RD
PO473	LANDSHIRE DEVELP WAREHOUSES	FAMILY CIRCLE DR
PO474	LANDSHIRE DEVELOP WAREHOUSES	FAMILY CIRCLE DR
PO475	BRECKINRIDGE COURT APTS	REDDING RD
PO476	HEATHERWOOD TOWNHOMES	OLD MT TABOR RD
PO477	HEATHERWOOD TOWNHOMES	OLD MT TABOR RD
PO478	STOR ALL STORAGE	PALUMBO DR
PO479	STOR ALL STORAGE	PALUMBO DR
PO480	COMBS BLDG	MEDICAL CENTER RD
PO481	FEATHERIDGE PARK APTS	KENESAW DR
PO482	OVERBROOK FARM	TATES CREEK RD
PO483	HELIPORT	ALUMNI DR
PO484	MEADOWTHORPE SHOPPING CTR	LEESTOWN RD
PO485	MEADOWTHORPE SHOPPING CTR	LEESTOWN RD
PO486	FRENCH QUARTER SQUARE	RICHMOND RD
PO487	FRENCH QUARTER SQUARE	RICHMOND RD
PO488	MAN O WAR PLACE SHOPPING CTR	LOCUST HILL DR
PO489	AGRICULTURAL ENGR BLDG	FARM RD
PO490	OVERBROOK FARM	ARMSTRONG MILL RD
PO491	MEADOWTHORPE ELEM SCHOOL	NORTH FORBES RD
PO492	ROBOTICS BLDG	FUNKHOUSER DR
PO493	VEHICLE MAINTENANCE FACILITY	BLUEGRASS AIRPORT
PO494	FRENCH QUARTER SQUARE	QUINTON CT
PO495	FRENCH QUARTER SQUARE	QUINTON CT
PO496	NEW ACADEMIC TECHNICAL BLDG	COOPER DR
PO497	MAN O WAR PLACE SHOPPING CTR	LOCUST HILL DR
PO499	MAN O WAR PLACE SHOPPING CTR	LOCUST HILL DR
PO500	MAN O WAR PLACE SHOPPING CTR	LOCUST HILL DR

ACAD_ID	PR_STREET	IR_STREET
PO501	MAN O WAR SHOPPING CTR	LOCUST HILL DR
PO502	FRENCH QUARTER SQUARE	QUINTON CT
PO503	KENTUCKY STATE HORSE PARK	IRON WORKS RD
PO504	PARK PLACE	TATES CREEK RD
PO505	PARK PLACE	TATES CREEK RD
PO506	PARK PLACE	TATES CREEK RD
PO507	PARK PLACE	TATES CREEK RD
PO508	RACQUET CLUB	CROSBY DR
PO509	RACQUET CLUB	CROSBY DR
PO510	RACQUET CLUB	CROSBY DR
PO511	RACQUET CLUB	CROSBY DR
PO512	RACQUET CLUB	CROSBY DR
PO513	RACQUET CLUB	CROSBY DR
PO514	BRANDYWINE APTS	TRENT BLVD
PO515	BRANDYWINE APTS	TRENT BLVD
PO516	BRANDYWINE APTS	TRENT BLVD
PO517	BRANDYWINE APTS	TRENT BLVD
PO518	BRANDYWINE APTS	TRENT BLVD
PO519	KENTUCKY STATE HORSE PARK	EVENT STABLING BARNS RD
PO520	KENTUCKY STATE HORSE PARK	CARRIAGE HORSE BARN RD
PO521	KENTUCKY STATE HORSE PARK	CARRIAGE HORSE BARN RD
PO522	LEXMARK PROPERTY	PVT RD
PO523	UK	SOUTH LIMESTONE ST
PO524	UK	SOUTH LIMESTONE ST
PO525	UK	SOUTH LIMESTONE ST
PO526	BLUEGRASS AIRPORT	TERMINAL
PO527	BLUEGRASS AIRPORT	TERMINAL
PO528	LEXINGTON CAR CARE	ROJAY DR
PO529	SPRITE FLITE INC	AIRPORT RD
PO530	UK COLLEGE OF PHARMACY	SOUTH LIMESTONE ST

ACAD_ID	PR_STREET	IR_STREET
PO531	UK COLLEGE OF PHARMACY	SOUTH LIMESTONE ST
PO535	MILL POND CENTER	BOSTON RD
PO536	MILL POND CENTER	BOSTON RD
PO537	MILL POND CENTER	MILL POND CENTER
PO538	JIM ARNOLD ASSOCIATION	CODELL DR
PO539	OVERBROOK FARM	DELONG RD
PO540	OVERBROOK FARM	DELONG RD
PO541	SHILITO PARK APTS	RETRAC RD
PO542	SOUTHLAND VILLAGE SHOPS	REGENCY RD
PO543	CHIPPENDALE CIR	PATCHEN DR
PO544	CHIPPENDALE CIR	PATCHEN DR
PO545	PALOMAR CENTRE	WELLINGTON WAY
PO546	PALOMAR CENTRE	HARRODSBURG RD
PO547	PALOMAR CENTRE	HARRODSBURG RD
PO548	PALOMAR CENTRE	HARRODSBURG RD
PO549	PALOMAR CENTRE	LYON DR
PO550	PALOMAR CENTRE	LYON DR
PO551	OVERBROOK FARM	DELONG RD MARE BARN
PO552	HUME RD TANK	
PO553	GUNNELL RD TANK	
PO554	MERCER RD TANK	
PO555	NANCY HANK APTS	
PO558	KENTUCKY STATE HORSE PARK	COVERED ARENA
PO559	KENTUCKY STATE HORSE PARK	SADDLE HORSE MUSEUM
PO560	SOUTH LIMESTONE ST	LEADER AVE
PO561	KAWC RD	RICHMOND RD
PO563	KAWC RD	FILTER PRESS BLDG
PO564	SPORT CENTRE DR	UK ACADEMIC BLDG
PO565	UK PARKING LOT	OSWALD BLDG
PO566	KAWC COMPLEX ENT	SERVICE RD

ACAD_ID	PR_STREET	IR_STREET
PO568	GEOLOGICAL BUILDING	COUNCIL OF STATE GOVERNMENT
PO569	TATES CREEK HIGH SCHOOL	TATES CREEK HIGH SCHOOL BLDG
PO570	TATES CREEK HIGH SCHOOL	TATES CREEK HIGH SCHOOL BLDG
PO571	UK FIELDHOUSE	COAL PILE DR
PO572	UK FIELDHOUSE	COAL PILE DR
PO573	UK FIELDHOUSE	COAL PILE DR
PO574	CIVIL ENGINEER BLDG	ROSE ST
PO575	TATES CREEK RD	BARN 11
PO576	OVERBROOK FARM	BARN 12
PO578	BLUEGRASS AIRPORT	
PO579	BLUEGRASS AIRPORT	
PO580	BLUEGRASS AIRPORT	
PO581	OVERBROOK FARM	TATES CREEK PK FG5586
PO582	KENTUCKY HORSE PARK	HORSE ASSOCIATION ENTR
PO583	KENTUCKY HORSE PARK	HORSE ASSOCIATION ENTR
PO584	BOOKER T WASHINGTON SCHOOL	HOWARD ST
PO585	SHELBY LN MAIN HOUSE	OVERBROOK FARM
PO586	SHELBY LN -BARN #2	OVERBROOK FARM
PO587	SHELBY LN -BARN #1	OVERBROOK FARM
PO589	KY HORSE PARK	KY HORSE PARK
PO590	KY HORSE PARK	KY HORSE PARK
PO591	ALUMNI DR	PARK HILLS
PO592	COLLEGE WAY	SPORTS CENTER WAY
PO593	ALUMNI DR BLDG14	
PO601	RICHMOND RD STATION	CHEMICAL BLDG 1
PO602	MAIN CHANCE FARM	UK PROPERTY
PO603	PALOMAR CENTER WALMART	MAN O WAR BLVD
PO605	ROBINSON DR	HORSE PARK
PO606	NINA BONNIE BLVD	KY HORSE PARK
PO607	NINA BONNIE BLVD	KY HORSE PARK

ACAD_ID	PR_STREET	IR_STREET
PO608	NINA BONNIE BLVD	KY HORSE PARK
PO609	INDOOR ARENA	INDOOR ARENA
PO610	KY HORSE PARK	INDOOR ARENA
PO611	KY HORSE PARK	INDOOR ARENA
PO612	KY HORSE PARK	INDOOR ARENA
PO613	KY HORSE PARK	INDOOR ARENA
PO614	KY HORSE PARK	INDOOR ARENA
PO615	KY HORSE PARK	INDOOR ARENA
PO616	AVIATOR RD	BG AIRPORT
PO617	AVIATOR RD	BG AIRPORT
PO618	AVIATOR RD	BG AIRPORT
PO620	RRS OPS BUILDING	PARKING ISLAND
PO623	TAC AIR	BLUEGRASS AIRPORT HANGAR DR
PO624	TAC AIR	BLUEGRASS AIRPORT HANGAR DR
PO625	KY HORSE PARK	CIGAR LN
PO626	FASIG TIPTON	NEW OFFICE BUILDING
PO628	UK SOFTBALL FIELD	
PO629	UK SOFTBALL FIELD	
PO631	COX ST	MANCHESTER ST
PO641	LEXINGTON MALL	APPLEBEE'S

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 19.** Please describe the process that is undertaken before a privately owned fire hydrant is added to KAWC's system. Please provide a copy of any contracts or other documents that are required to be followed or executed by the owner of the hydrant.

Response:

The determination as to whether a privately owned hydrant is to be installed is based on a KAWC-required review of the developer's plan by the fire department that will serve the planned development. A copy of the developer's plan with a sign-off or letter from the fire department is required before KAWC will initiate action. The developer initiates this review and KAWC receives a letter from the fire department indicating the acceptance of the location of the hydrant and an indication of the hydrant being considered as a private hydrant. A copy of a typical correspondence letter from the LFUCG Division of Fire and Emergency Services is attached.

The hydrant plans must be reviewed by KAWC in advance to determine that the proposed hydrant will meet and be installed per KAWC specifications. KAWC assigns an inspector to review and then prepares a work order estimate and requires a deposit for the estimated amount. The assigned inspector will coordinate any construction to be completed by KAWC contractors and inspect the installation. The developer also is required to sign a "Special Connections Agreement" for the hydrant, and submit a Tap Application and Service Contract to establish a pre-billing account. Samples of these three documents are attached. Upon completion of the inspection of the installation, the tap set meter form is returned to billing for account activation and then billing begins.



LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT

Division of Fire and Emergency Services
Office of Water Control

August 14, 2018

Mr. Eric Stigall
Kentucky American Water
2300 Richmond Rd
Lexington, Kentucky 40502

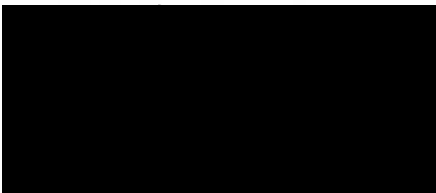
Re: Approval of Fire Service Features
Hamburg East, Lot 4
1825 Little Herb Way
Lexington, Kentucky 40509

Dear Mr. Stigall,

The Fire Department Water Control Office approves the location of (3) privately owned fire hydrants, (1) post indicator valve, and (1) fire department connection. The placement of the fire service features are circled in red on the Developmental Plan. If additional information is needed please contact me.

Sincerely,

Captain Joshua Thiel
Division of Fire and Emergency Services
Water Control Office



APPLICATION FOR SPECIAL CONNECTION

Account No.	
Contract No.	
WBS Element No.	

This Application, made in duplicate this _____ day of _____, 20____, by _____, hereinafter called the "APPLICANT", to KENTUCKY AMERICAN WATER, a Kentucky corporation located at 2300 Richmond Road, Lexington, Kentucky, 40502, hereinafter called the "WATER COMPANY."

The APPLICANT, upon the terms and conditions hereinafter set forth, hereby applies to the WATER COMPANY for a private service, consisting of the right to connect a service pipe to a public water main on _____ in _____ Kentucky and attach to said service pipe the following fixtures and openings:

_____ () private fire hydrants (hydrant numbers);

all of which fixtures and openings to be located within or upon the premise of the APPLICANT abutting the street on which the said main of the WATER COMPANY is located.

In consideration for which privilege the APPLICANT agrees to be bound by all the terms and conditions of this Application and pay the WATER COMPANY for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this Application may be accepted by the WATER COMPANY are as follows:

FIRST: That this Application and the acceptance thereof by the WATER COMPANY may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

SECOND: That the entire service system on APPLICANT's premises shall be subject to the inspection, test and approval of the WATER COMPANY, and the WATER COMPANY by its representatives, shall have the right to enter the premises of the APPLICANT at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this Application.

THIRD: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the APPLICANT.

FOURTH: That a fire line meter or detector device, approved by both the WATER COMPANY and the fire underwriters, will be required on the service at a location approved by the WATER COMPANY. Such meter or device shall be installed and maintained by and at the cost and expense of the APPLICANT, but subject to the inspection and approval of the WATER COMPANY. The bypass meter only, used with the detector device, shall be furnished, installed and maintained by the WATER COMPANY at its cost and expense.

FIFTH: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the WATER COMPANY, and shall be furnished, installed and maintained by and at the expense of the APPLICANT, and unless otherwise approved by the WATER COMPANY, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the APPLICANT.

SIXTH: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the APPLICANT shall immediately close such fixtures and notify the WATER COMPANY so that they may be sealed. Whenever a private fire protection service system is to be tested, the APPLICANT shall notify the WATER COMPANY at least two business days in advance of such proposed test, requesting approval of the method, day and hour on which it is to be made.

SEVENTH: That no antifreeze or any other substance not specifically approved by the Environmental Protection Agency as non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the APPLICANT's private fire protection service system.

EIGHTH: That the APPLICANT understands and agrees that the extent of the rights of the APPLICANT under this Application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The APPLICANT further acknowledges and agrees the WATER COMPANY shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the WATER COMPANY shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

NINTH: That this Application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the WATER COMPANY.

TENTH: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the WATER COMPANY for public fire hydrants.

ELEVENTH: That the APPLICANT shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this Application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the WATER COMPANY, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

TWELFTH: That no pipe, fixture or appurtenance connected with the private fire protection service served by this Application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the WATER COMPANY.

THIRTEENTH: That the APPLICANT agrees to obtain in writing in advance the approval of the WATER COMPANY for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the WATER COMPANY, APPLICANT agrees that, except for those facilities which the WATER COMPANY had specifically agreed to provide and maintain, APPLICANT is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this Application.

FOURTEENTH: That the WATER COMPANY has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this Application, after due written notice to the APPLICANT, for failure to pay any bill when due, for failure to supply information to WATER COMPANY about the service system when so requested in writing, for leakage within APPLICANT's system, for violation of any of the terms and conditions of this Application, or for any violation of its rules, regulations and conditions of service; and the WATER COMPANY also has the right to shut off all or any part of its facilities by the WATER COMPANY(1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by APPLICANT is detected, or if the WATER COMPANY's regulating or measuring equipment has been tampered with by the APPLICANT.

FIFTEENTH: That upon acceptance of this Application by the WATER COMPANY and the completion of the installation of the service applied for, this Application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the APPLICANT to the WATER COMPANY, except as otherwise provided in numbered paragraph (14) above.

SIXTEENTH: The acceptance of this Application by the WATER COMPANY must be executed by its Director of Engineering before same becomes effective.

SEVENTEENTH: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to the WATER COMPANY within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

EIGHTEENTH: That the APPLICANT or his agent is responsible for payment of the deposit for the estimated cost of construction to WATER COMPANY. To the extent there is any refund to be made at the end of the project after all costs are accrued, such refund will be paid to the APPLICANT by check made payable to the APPLICANT. To the extent that any amount is owed to WATER COMPANY at the end of the project after all costs are accrued, payment of such amounts is the responsibility of the APPLICANT. To the extent the APPLICANT owes any of the refunded amount to the contractors, APPLICANT agrees it is responsible for these amounts owed and that WATER COMPANY has no responsibility in that regard.

IN WITNESS WHEREOF, the APPLICANT has hereunto signed the day and year:

* **Phone:** _____

* **Email:** _____

Witness Signature

Signature and Title of APPLICANT or Duly Authorized Representative

APPROVED this _____ day of _____, 20 _____.

Witness Signature

Chief of Fire Department

County/City of _____

WATER COMPANY hereby accepts the foregoing Application this _____ day of _____, 20 _____.

Witness Signature

Director of Engineering

Date

NEW TAP APPLICATION



PLEASE COMPLETE AND RETURN TO:

Attn: New Taps
 Kentucky American Water
 2300 Richmond Road
 Lexington, KY 40502
 24-Hour Tap Line #: (859) 268-6379
 Fax #: (859) 268-6315
 www.kentuckyamwater.com

FOR OFFICE USE ONLY:			
Plumbing Permit #:			
Inspection Date:			
Customer #:		Account	
Premise#:			
Private Setting:	Yes	No:	
<i>If yes, inspected and approved by KAW:</i>			
WBS#		Spec Conn (or Multiple Svc) Agmt	
Type of Service:	Private Fire Hydrants		
Amount Paid		Date Paid:	

IMPORTANT: This application must be completed and returned with the tap fee. Proof of inspection and approval of water service by State Plumbing Inspector required. A signed "Contract for New Service" is required unless a "Master Service Agreement" has been executed. Allow 20-25 days for service to be installed after all paperwork is received. (PLEASE NOTE: Services larger than 2" are applied for and coordinated through the New Development/Construction Department. Installation time will vary, but will be a minimum of 90 days after application is made.)

PLEASE ENSURE ADDRESS IS MARKED AND VISIBLE FROM THE STREET

The undersigned makes application for water service at Address _____
 County _____ Subdivision _____ City _____ Zip _____

and hereby requests Kentucky American Water to make a connection to its main. **Kentucky American Water will specify the location, size, kind and quality of all material entering into the service connection and will set and turn on the meter.** The undersigned has completed the following requirements for the installation of a water meter at the above address:

- Service line has been installed to the point where the meter is to be permanently connected **and** visibly marked by the customer to identify the connection point. **Non-residential service lines are required to have a testable approved backflow prevention device installed.**
- The service line which connects the customer supply at the meter setting is _____ inch (minimum 3/4") and will require a _____-inch meter to be set **(1 1/2" and larger meters require a completed Customer Data Sheet)**. The service line is at 30 inches below ground level. **Service lines up to 2"** will have Type "L" or "K" copper line installed at the connection point or affixed with a male adapter at the connection point if the customer's line is other than Type "L" or "K" copper. **Service lines larger than 2"** will have Ductile Iron pipe or C-900 plastic pipe installed to the connection point. If another type of pipe is used at the connection point, the customer is required to make the connection; and
- This service line is equipped with an easily accessible stop and waste valve inside and near the foundation of the building being supplied.

THE UNDERSIGNED AGREES TO THE FOLLOWING:

- Comply with all rules and regulations of Kentucky American Water, as approved by the Kentucky Public Service Commission.
- Comply with local codes and ordinances in the construction, use and alteration of the plumbing system.
- If non-residential, shall install an approved backflow prevention device to avert a cross connection or backflow condition.
- Shall not create an electric shock hazard by improper electric grounding to the plumbing system. Kentucky American Water assumes no responsibility for continuity of electrical grounding systems by the installation or removal of its meter.
- Must, at all times, take necessary measures to protect the meter box, meter setting and service line and is responsible for damages to Kentucky American Water property caused by them, their contractor and/or subcontractors.

THIS METER SERVES THE FOLLOWING PREMISE TYPE (CHECK ONE):

- Residential (single premise residence, duplex or multiple premise residence where each unit is served by its own meter).
- Commercial (multiple premise residence [apartment building] served by a single meter, private educational institutions, all businesses where water is not used principally in manufacturing or processing of a product. Commercial includes laundries, hotels, motels, restaurants, bars, non-government office buildings, non-government hospitals and other medical facilities, retail shops, etc.)
- Industrial (manufacturing or processing establishments where the water is used principally in the manufacturing or processing of a product. Industrial includes factories, refineries, bottling plants, etc.)
- Other Public Authority (OPA) (municipal, county, state or federal agencies). OPA includes municipal buildings, public schools, public libraries, government hospitals, fire stations, public housing developments, etc.
- Sales for Resale (sales to private or public water utilities where the water is to be resold to the customers of the utility).

SEWER SERVICE PROVIDED BY (CHECK ONE):

- LFUCG
- GEORGETOWN MUNICIPAL
- ROCKWELL VILLAGE
- TREE HAVEN
- SEPTIC
- IRRIGATION ONLY
- OTHER _____
- N/A (FIRE HYDRANT/FIRE SERVICE)

Owner/Builder _____
 Master Agreement Number (if applicable) _____
 Phone: _____ Plumber Name _____
 Authorized Signature _____ Title _____ Date _____

**KENTUCKY
AMERICAN WATER**

2300 Richmond Road
Lexington, KY 40502
(800) 678-6301
(859) 268-6315 (FAX)
www.kentuckvamwater.com

CONTRACT FOR NEW SERVICE

FOR KAW OFFICE USE ONLY:

Premise No.: _____ Acct. No.: _____ Customer No.: _____
Application for Special Connection No.: _____ WBS No.: _____
Type of Service: _____
Operations Specialist (KAW Inspector): _____

I hereby make application and authorize Kentucky American Water to place a meter and turn on the water at the following address, and I agree to pay all bills by the due date specified on the bill for water furnished to any address where I either have an interest in the ownership of the property, directly or indirectly, or have requested service, and I hereby agree to continue to be responsible for the same until I notify Kentucky American Water in writing to the contrary.

I agree to take the necessary measures to protect the meter box, meter setting and the service during the installation of new services. I will be responsible for damages to Kentucky American Water property caused by me, my contractor and/or sub-contractor during on-site construction.

I agree to abide by the local codes and ordinances in the construction, use, and alteration of my plumbing system. I shall not create an electric shock hazard by improper electric grounding to the plumbing system. I agree to install an approved, testable backflow prevention device on all nonresidential incoming lines and irrigation systems to prevent the creation of a cross connection or backflow condition.

Kentucky American Water assumes no responsibility for continuity of electrical grounding systems by the installation or removal of its meter.

I agree to abide by and comply with all rules, regulations and rates of Kentucky American Water, as approved by the Public Service Commission of the Commonwealth of Kentucky and as changed from time to time.

If, at any time, any bill owed by me to Kentucky American Water, whether collectible under this Agreement or otherwise, is not paid when due and payable, then Kentucky American Water shall have the right to discontinue the supply of water to the location.

PLEASE COMPLETE THE FOLLOWING INFORMATION (return with deposit and signed agreements)

Service Address _____

City _____ State _____ Zip Code _____

Is this a multi-unit building? Yes No If yes, how many units _____

Please check primary use of service: Residential Commercial Industrial OPA

Please check type (s) of service use (if more than one type or number, individual application is required for each service)

Domestic Irrigation Fire service -- size: _____ Fire hydrant(s) -- quantity: _____ Other _____

Billing Name _____

Billing Address _____

City _____ State _____ Zip Code _____

Telephone number: (Home) _____ (Office) _____

Name of person filling out form _____

Contact Person _____ Phone Number _____

Email: _____ Do you own or lease this building? Own _____ Lease _____

Authorized Signature _____ **Title** _____ **Date** _____

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

20. Please provide the following information with respect to public fire hydrant charges:

- (a) The total number of hydrants charged to Lexington during the base period;
- (b) The total number of hydrants charged to Lexington during the forecasted test period;
- (c) The basis for the projection of the number of hydrants charged to Lexington during the forecasted test period;
- (d) Any adjustment to hydrant charges to reflect system uses of hydrants, including but not limited to flushing the KAWC system; and
- (e) Please provide the number (quantity), type, and location (by street address or other easy to identify locator) of each fire hydrant for which Lexington currently pays a monthly tariff.

Response:

- (a) For the base period the number of hydrants being charged to Lexington is 6,914.
- (b) For the forecasted test year period, the number of hydrants being charged to Lexington is 6,914.
- (c) The number of hydrants charged to Lexington was based on hydrants being currently billed each month. There was no increase in the number of hydrants being charged to Lexington in the forecasted test year period.
- (d) No adjustments were made to hydrant charges to reflect system uses of hydrants.
- (e) Please refer to the attachment.

Public Hydrants (Fayette County, KY)

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1	H1	609	E MAIN ST	38.0376182318	-84.4873214689
HLX-2	H2	521	E MAIN ST	38.038578296	-84.4883841686
HLX-3	H3	508	E MAIN ST	38.039193011	-84.4887695576
HLX-4	H4	460	E MAIN ST	38.0401670382	-84.4901300525
HLX-5	H5	386	E MAIN ST	38.0414737634	-84.4915815306
HLX-6	H6	350	E MAIN ST	38.0420544478	-84.4923346997
HLX-8	H8	271	E MAIN ST	38.0433889702	-84.4934270861
HLX-9	H9	255	E MAIN ST	38.0436862286	-84.49398205
HLX-10	H10	224	E MAIN ST	38.0444210695	-84.4945804394
HLX-11	H11	171	E MAIN ST	38.0451896383	-84.4956682093
HLX-12	H12	202	E MAIN ST	38.0449321389	-84.4952621115
HLX-13	H13	120	E MAIN ST	38.0457258476	-84.4964756681
HLX-15	H15	105	N LIMESTONE	38.0465504625	-84.4968825699
HLX-16	H16	164	W MAIN ST	38.04721	-84.49797
HLX-17	H17	250	W MAIN ST	38.0477250415	-84.4986530334
HLX-18	H18	271	W MAIN ST	38.0479644098	-84.4989322334
HLX-19	H19	325	W MAIN ST	38.0483164036	-84.4989266468
HLX-20	H20	118	N BROADWAY	38.0490785096	-84.4998531377
HLX-21	H21	40	W MAIN ST	38.06342099	-84.51970875
HLX-23	H23	501	W MAIN ST	38.0499908291	-84.5007797751
HLX-24	H24	551	W MAIN ST	38.0505763128	-84.50188517
HLX-25	H25	578	W MAIN ST	38.0513486369	-84.502732655
HLX-26	H26	107	JEFFERSON ST	38.051977915	-84.5029423721
HLX-27	H27	628	W MAIN ST	38.0524760617	-84.5039703449
HLX-28	H28	701	W MAIN ST	38.0530537509	-84.5042120555
HLX-31	H31	111	EASTERN AVE	38.0419589208	-84.4909636639
HLX-32	H32	267	E SHORT ST	38.0440341567	-84.4926911287
HLX-33	H33	219	E SHORT ST	38.0448845772	-84.4939096691
HLX-34	H34	205	E SHORT ST	38.0455392217	-84.4944505484
HLX-36	H36	131	N LIMESTONE	38.0470523198	-84.4961724768
HLX-37	H37	154	W SHORT ST	38.0475501074	-84.497160408
HLX-38	H38	201	W SHORT ST	38.0477973625	-84.497129912

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-39	H39	221	W SHORT ST	38.0481005461	-84.4977216036
HLX-40	H40	218	E 7TH ST	38.0483621981	-84.4979887257
HLX-41	H41	301	W SHORT ST	38.0487277023	-84.4981668913
HLX-42	H42	130	N BROADWAY	38.049536608	-84.4992863906
HLX-43	H43	401	W SHORT ST	38.0496192822	-84.4991862563
HLX-44	H44	50	W SHORT ST	38.0502908096	-84.5002056717
HLX-45	H45	531	W SHORT ST	38.0509384869	-84.5008735502
HLX-46	H46	563	W SHORT ST	38.0516538727	-84.501459418
HLX-47	H47	592	W SHORT ST	38.0522	-84.50228
HLX-48	H48	703	W SHORT ST	38.0536912318	-84.5036371022
HLX-49	H49	165	BARR ST	38.0460246515	-84.4938671878
HLX-50	H50	1112	VERSAILLES RD	38.0467586072	-84.4946923048
HLX-51	H51	161	N LIMESTONE	38.0474927191	-84.4955764347
HLX-52	H52	154	N UPPER ST	38.0482141947	-84.4964952523
HLX-53	H53	153	MARKET ST	38.0487642259	-84.4970654049
HLX-54	H54	160	N MILL ST	38.0491405528	-84.4974416517
HLX-56	H56	171	GEORGETOWN ST	38.0547388353	-84.5031056724
HLX-57	H57	151	EASTERN AVE	38.0428719699	-84.4897478651
HLX-58	H58	311	CORRAL ST	38.0451832246	-84.4910037746
HLX-59	H59	177	N LIMESTONE	38.0479197306	-84.4949921687
HLX-60	H60	201	N LIMESTONE	38.0483249492	-84.4944187471
HLX-61	H61	20	N UPPER ST	38.0490543814	-84.4951895483
HLX-70	H70	589	W 2ND ST	38.0556806272	-84.5025880416
HLX-71	H71	406	E 2ND ST	38.0438159272	-84.4883437211
HLX-72	H72	270	E 2ND ST	38.0457575664	-84.4903595801
HLX-73	H73	248	E 2ND ST	38.0461349586	-84.4908810459
HLX-74	H74	164	CONSTITUTION ST	38.0473192891	-84.4919955937
HLX-75	H75	134	CONSTITUTION ST	38.0479893831	-84.4929852236
HLX-76	H76	223	N LIMESTONE	38.0487060244	-84.493939866
HLX-78	H78	201	MECHANIC ST	38.0497041012	-84.494363472
HLX-79	H79	242	MARKET ST	38.0502011718	-84.4948917559
HLX-80	H80	239	N MILL ST	38.0507280727	-84.4953261686
HLX-82	H82	575	MARYLAND AVE	38.0569087901	-84.5021438148
HLX-83	H83	433	E 3RD ST	38.0445680618	-84.4856727207

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-84	H84	375	E 3RD ST	38.0449464372	-84.4871283113
HLX-85	H85	311	CHESTNUT ST	38.0452810918	-84.487320999
HLX-86	H86	327	E 3RD ST	38.0457748477	-84.4883253182
HLX-87	H87	305	E 3RD ST	38.0462553401	-84.4889165974
HLX-88	H88	240	E 3RD ST	38.047164875	-84.4899520064
HLX-89	H89	211	E 3RD ST	38.0477310164	-84.4904390523
HLX-90	H90	138	E 3RD ST	38.0486711058	-84.491576067
HLX-91	H91	265	N LIMESTONE	38.0496357329	-84.4926132466
HLX-92	H92	134	W 3RD ST	38.0502693812	-84.4933288113
HLX-93	H93	262	MARKET ST	38.0509028599	-84.494053829
HLX-94	H94	301	W 3RD ST	38.0513277159	-84.4944954569
HLX-96	H96	1102	STILLWELL AVE	38.0347550544	-84.5163158577
HLX-97	H97	435	W 3RD ST	38.0532608111	-84.4967004212
HLX-98	H98	455	W 3RD ST	38.0541471177	-84.4976224287
HLX-99	H99	497	W 3RD ST	38.0549611901	-84.4985718509
HLX-101	H101	1112	WINCHESTER RD	38.0577893338	-84.5016136084
HLX-102	H102	339	CHESTNUT ST	38.0458718646	-84.4865482754
HLX-103	H103	337	N MARTIN LUTHER KING BLVD	38.0487690908	-84.4899219856
HLX-104	H104	367	N MARTIN LUTHER KING BLVD	38.0493855758	-84.4889919409
HLX-105	H105	125	E 4TH ST	38.0502954657	-84.4897012902
HLX-106	H106	341	N LIMESTONE	38.0503442442	-84.4915118006
HLX-108	H108	401	N LIMESTONE	38.0510714202	-84.4904816953
HLX-109	H109	2020	DORSET DR	38.0516872895	-84.491238472
HLX-111	H111	230	W MAIN ST	38.0473983706	-84.4983060026
HLX-112	H112	416	W 4TH ST	38.0542639238	-84.4942156551
HLX-113	H113	449	W 4TH ST	38.0551397331	-84.4951741126
HLX-114	H114	441	N LIMESTONE	38.0517994442	-84.4894107669
HLX-116	H116	473	N MARTIN LUTHER KING BLVD	38.0509714123	-84.4869255301
HLX-117	H117	501	N LIMESTONE	38.0524273518	-84.4886135499
HLX-118	H118	130	W 5TH ST	38.0530786086	-84.4892355443
HLX-119	H119	30	W 5TH ST	38.0539860985	-84.4902618219
HLX-121	H121	535	N LIMESTONE	38.0532336475	-84.4874875988
HLX-123	H123	573	N LIMESTONE	38.0538844684	-84.4865149731
HLX-124	H124	637	N LIMESTONE	38.0546562405	-84.4853916136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-126	H126	170	N MARTIN LUTHER KING BLVD	38.0466296496	-84.4930153397
HLX-127	H127	705	WINCHESTER RD	38.0412132512	-84.4784010463
HLX-128	H128	130	W VINE ST	38.0460673977	-84.4985054187
HLX-130	H130	991	COOPER DR	38.0456180555	-84.4982096861
HLX-132	H132	110	W VINE ST	38.046366747	-84.4989432423
HLX-133	H133	333	W VINE ST	38.0477229949	-84.4996362287
HLX-134	H134	333	W VINE ST	38.0473889202	-84.5001160306
HLX-135	H135	369	W VINE ST	38.0485434617	-84.5006227451
HLX-136	H136	0	S BROADWAY	38.0482550268	-84.5010337567
HLX-141	H141	148	GRAND BLVD	38.0403914776	-84.4932419235
HLX-142	H142	145	ROSE ST	38.042063062	-84.4940316253
HLX-143	H143	449	E HIGH ST	38.0385600012	-84.4935970877
HLX-144	H144	377	CORRAL ST	38.0433562684	-84.4890737604
HLX-145	H145	343	E HIGH ST	38.0402340463	-84.494003544
HLX-146	H146	325	W MAIN ST	38.0484802713	-84.4995589916
HLX-147	H147	280	E HIGH ST	38.0414891964	-84.4947797468
HLX-148	H148	224	E HIGH ST	38.0426019289	-84.4960253795
HLX-149	H149	180	E HIGH ST	38.0431965407	-84.4968210631
HLX-150	H150	301	SOUTHLAND DR	38.0436749906	-84.4972088838
HLX-151	H151	10	E HIGH ST	38.0444076746	-84.4980690881
HLX-152	H152	577	E 3RD ST	38.0426944426	-84.4819720103
HLX-153	H153	102	W HIGH ST	38.0451702578	-84.498910169
HLX-154	H154	30	S UPPER ST	38.0459536006	-84.4997911279
HLX-155	H155	128	W SHORT ST	38.047271651	-84.4967989251
HLX-156	H156	30	W HIGH ST	38.0468615334	-84.5008877948
HLX-157	H157	243	E MAIN ST	38.0439974814	-84.4942256875
HLX-158	H158	301	S BROADWAY	38.0476891498	-84.5018049029
HLX-159	H159	214	E MAIN ST	38.0444896535	-84.4950980064
HLX-161	H161	404	W MAIN ST	38.049500766	-84.5003604164
HLX-163	H163	555	W 2ND ST	38.0548114699	-84.5018622316
HLX-164	H164	630	W HIGH ST	38.0498918228	-84.5048864351
HLX-165	H165	245	LEXINGTON AVE	38.0424132469	-84.4979699904
HLX-166	H166	245	S LIMESTONE	38.0443367241	-84.5000404778
HLX-167	H167	347	S UPPER ST	38.0450986727	-84.5010228979

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-168	H168	347	S MILL ST	38.0460240395	-84.5020546992
HLX-169	H169	343	S BROADWAY	38.0468180462	-84.5030727581
HLX-172	H172	278	E MAXWELL ST	38.0397645471	-84.4971925219
HLX-173	H173	238	E MAXWELL ST	38.0405201852	-84.4980759234
HLX-174	H174	185	E MAXWELL ST	38.0414990134	-84.4992010857
HLX-175	H175	135	E MAXWELL ST	38.0424611251	-84.5003128012
HLX-176	H176	440	RACE ST	38.0460651989	-84.4835176875
HLX-177	H177	304	S LIMESTONE	38.0433553791	-84.501409663
HLX-178	H178	401	S UPPER ST	38.0442497737	-84.5023179586
HLX-179	H179	124	INDIANA AVE	38.040767312	-84.4892669053
HLX-180	H180	30	W MAXWELL ST	38.0452044762	-84.5032076941
HLX-181	H181	126	W MAIN ST	38.0466008522	-84.4974541481
HLX-182	H182	401	S BROADWAY	38.045921328	-84.5042883709
HLX-183	H183	0	E VINE ST	38.0408769238	-84.4910431648
HLX-185	H185	401	SPRING ST	38.0467423455	-84.5051764373
HLX-186	H186	409	PATTERSON ST	38.0476488501	-84.5062357756
HLX-187	H187	840	E 7TH ST	38.0429550245	-84.4707917014
HLX-188	H188	341	S LIMESTONE	38.0426233341	-84.5024110321
HLX-189	H189	429	S UPPER ST	38.0435863345	-84.5032315317
HLX-190	H190	505	S MILL ST	38.0444362246	-84.5044194765
HLX-191	H191	502	S BROADWAY	38.0452429011	-84.5053117092
HLX-192	H192	433	SPRING ST	38.0460996837	-84.5060943314
HLX-193	H193	540	PINE ST	38.0469836752	-84.5072475185
HLX-194	H194	534	S UPPER ST	38.0428200509	-84.5043168251
HLX-195	H195	501	S BROADWAY	38.0449225862	-84.5058325183
HLX-200	H200	2425	WOODHILL DR	38.0438425227	-84.5072888006
HLX-201	H201	122	PARK AVE	38.0371935282	-84.4878234519
HLX-202	H202	60	CENTRAL AVE	38.0364802475	-84.4888262
HLX-203	H203	722	W HIGH ST	38.0502469164	-84.5057896336
HLX-204	H204	1124	RUSSELL CAVE RD	38.0588953027	-84.5011785184
HLX-205	H205	371	GEORGETOWN ST	38.0597589009	-84.5008902248
HLX-206	H206	400	NEWTOWN PIKE	38.0604300637	-84.5007663803
HLX-208	H208	350	W SHORT ST	38.0490261169	-84.4987655232
HLX-209	H209	436	W 6TH ST	38.05764	-84.49045

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-212	H212	150	E MAIN ST	38.0454015781	-84.4961404204
HLX-219	H219	401	CHESTNUT ST	38.0465348381	-84.4855457924
HLX-220	H220	371	OHIO ST	38.0470687017	-84.4863583527
HLX-221	H221	398	E 5TH ST	38.0478467865	-84.4836333636
HLX-222	H222	469	W 4TH ST	38.0558315722	-84.4959995646
HLX-223	H223	372	JEFFERSON ST	38.056347995	-84.4965830734
HLX-224	H224	165	JEFFERSON ST	38.0530487837	-84.5011748856
HLX-229	H229	70	W MAXWELL ST	38.0484690347	-84.5071313331
HLX-230	H230	726	W MAXWELL ST	38.0490979266	-84.5077970045
HLX-231	H231	822	W MAXWELL ST	38.0497034935	-84.5084794977
HLX-235	H235	304	E 5TH ST	38.0485023072	-84.4842101799
HLX-236	H236	232	E 4TH ST	38.0486731241	-84.4879692368
HLX-237	H237	138	E 6TH ST	38.0529657576	-84.4853630706
HLX-238	H238	558	E HIGH ST	38.0347723511	-84.4919661236
HLX-239	H239	490	E HIGH ST	38.0369524443	-84.4929933273
HLX-240	H240	442	E 5TH ST	38.0468951504	-84.482409939
HLX-243	H243	536	PEMBERTON ST	38.0478789677	-84.4815987639
HLX-244	H244	571	PEMBERTON ST	38.0485899996	-84.4806312658
HLX-245	H245	345	RACE ST	38.0454296876	-84.4845420814
HLX-246	H246	501	ELM TREE LN	38.0493659375	-84.4848942075
HLX-247	H247	123	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-249	H249	171	WOODLAND AVE	38.0373815968	-84.4920751701
HLX-250	H250	1778	GETTYSBURG RD	38.0376812957	-84.4896796031
HLX-251	H251	169	KENTUCKY AVE	38.0367402989	-84.4910644764
HLX-252	H252	201	KENTUCKY AVE	38.0358892582	-84.4922261616
HLX-253	H253	20	E 6TH ST	38.0520129756	-84.4844195242
HLX-254	H254	508	W 6TH ST	38.0594783684	-84.4925873921
HLX-255	H255	534	MARYLAND AVE	38.0554799738	-84.5008232446
HLX-256	H256	266	E 4TH ST	38.0476687668	-84.4870089432
HLX-257	H257	533	E 3RD ST	37.9512027853	-84.48341206
HLX-258	H258	147	FOREST AVE	38.0402805775	-84.4872235453
HLX-259	H259	805	W HIGH ST	38.0504791487	-84.5064441821
HLX-260	H260	832	W HIGH ST	38.0494850765	-84.5038321507
HLX-261	H261	432	MERINO ST	38.0478336702	-84.5080481609

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-262	H262	725	PINE ST	38.0484811216	-84.5086875305
HLX-263	H263	622	CENTRAL AVE	38.035829337	-84.4881190884
HLX-264	H264	369	BLACKBURN AVE	38.0574917358	-84.4979105938
HLX-265	H265	366	HENRY ST	38.0585137614	-84.4989801702
HLX-266	H266	824	DE ROODE ST	38.0499497532	-84.5122467167
HLX-267	H267	151	CURLEY AVE	38.0434478078	-84.4909309805
HLX-268	H268	659	S LIMESTONE	38.0358143337	-84.507908984
HLX-269	H269	121	WALTON AVE	38.0372369743	-84.4851350314
HLX-270	H270	110	THE LN	38.0423957709	-84.5143302925
HLX-273	H273	561	W 3RD ST	38.0570129214	-84.5007347542
HLX-275	H275	524	W 5TH ST	38.0572358917	-84.4938646815
HLX-276	H276	465	BOURBON AVE	38.0565904007	-84.4931380073
HLX-277	H277	558	W 5TH ST	38.0578035602	-84.4945031249
HLX-278	H278	644	ELSMERE PK	38.0564283019	-84.4865503299
HLX-279	H279	333	BLACKBURN AVE	38.056906736	-84.4989579333
HLX-281	H281	325	MADISON PL	38.0499880073	-84.5069742007
HLX-282	H282	941	MANCHESTER ST	38.0531962886	-84.5107342125
HLX-283	H283	231	WILLARD ST	38.0524364112	-84.511228426
HLX-284	H284	439	N UPPER ST	38.052511376	-84.4903334311
HLX-285	H285	426	CURRY AVE	38.0418929641	-84.5127848219
HLX-286	H286	456	CURRY AVE	38.0429310619	-84.5138342806
HLX-287	H287	473	SILVER MAPLE WAY	38.050028051	-84.4859557583
HLX-289	H289	338	N UPPER ST	38.050994752	-84.4924726791
HLX-290	H290	536	N UPPER ST	38.0539529537	-84.4883085242
HLX-291	H291	426	CHAIR AVE	38.0439026793	-84.5089020032
HLX-292	H292	617	PATTERSON ST	38.0450101725	-84.5099285324
HLX-293	H293	301	GROSVENOR AVE	38.042063062	-84.4940316253
HLX-294	H294	324	ROSE ST	38.038791694	-84.4984742858
HLX-295	H295	40	ROSE ST	38.037757199	-84.499972938
HLX-296	H296	545	ELM TREE LN	38.0502741349	-84.4837508929
HLX-297	H297	240	E 6TH ST	38.050998557	-84.4832127858
HLX-299	H299	437	SMITH ST	38.056626675	-84.4949247223
HLX-300	H300	998	MAYWICK DR	38.0392037763	-84.4949355119
HLX-301	H301	339	JEFFERSON ST	38.0557716249	-84.4976694474

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-302	H302	238	JEFFERSON ST	38.058572671	-84.4935534709
HLX-304	H304	228	W 6TH ST	38.0555437842	-84.4881097675
HLX-305	H305	323	E SHORT ST	38.0434053098	-84.4918245626
HLX-306	H306	338	MERINO ST	38.0491680314	-84.5059437423
HLX-307	H307	163	PRALL ST	38.0381701015	-84.5096248389
HLX-308	H308	146	MONTMULLIN ST	38.0387232306	-84.5088030475
HLX-309	H309	140	COLFAX ST	38.0392728279	-84.5083326798
HLX-310	H310	650	TOWER PLZ	38.0536901014	-84.5017977954
HLX-311	H311	635	BALLARD ST	38.0535570257	-84.5025935913
HLX-312	H312	535	W 2ND ST	38.0542074002	-84.5011838742
HLX-313	H313	221	AVENUE OF CHAMPIONS	38.0391043671	-84.5011572948
HLX-314	H314	326	WOODLAND AVE	38.0359215841	-84.4942789755
HLX-315	H315	233	KENTUCKY AVE	38.0348606372	-84.4935532545
HLX-317	H317	150	INDIANA AVE	38.0409498056	-84.4879511582
HLX-318	H318	425	GEORGETOWN ST	38.0608562564	-84.5012920098
HLX-319	H319	301	W 4TH ST	38.05269688	-84.49236272
HLX-320	H320	1060	W HIGH ST	38.0501531558	-84.5151005853
HLX-321	H321	421	JOHNSON AVE	38.050965998	-84.4887085665
HLX-323	H323	559	E 3RD ST	38.04311775	-84.48294447
HLX-324	H324	572	N UPPER ST	38.0545291366	-84.4872487646
HLX-325	H325	310	CORRAL ST	38.0448056782	-84.4910414445
HLX-326	H326	119	AVENUE OF CHAMPIONS	38.0406579547	-84.5027282228
HLX-327	H327	505	RUSSELL AVE	38.0411273364	-84.4864637125
HLX-328	H328	338	E 2ND ST	38.0447264254	-84.489316045
HLX-329	H329	426	E 2ND ST	38.0432221806	-84.4876429696
HLX-330	H330	528	E 2ND ST	38.0424932174	-84.4868431231
HLX-331	H331	716	N LIMESTONE	38.0557911412	-84.483582951
HLX-332	H332	525	OHIO ST	38.0493280913	-84.4834294685
HLX-333	H333	535	CHESTNUT ST	38.0487221859	-84.4824565005
HLX-334	H334	532	JEFFERSON ST	38.058572671	-84.4935534709
HLX-335	H335	550	W 6TH ST	38.0599990977	-84.4930634633
HLX-336	H336	635	HEADLEY AVE	38.0584690498	-84.4894766135
HLX-337	H337	316	W HIGH ST	38.0560994141	-84.4852462177
HLX-338	H338	675	N MARTIN LUTHER KING BLVD	38.0536742388	-84.4823860277

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-339	H339	435	KENTON ST	38.0537212686	-84.4919097875
HLX-340	H340	2095	DEAUVILLE DR	38.0349453544	-84.5039312915
HLX-346	H346	854	W MAIN ST	38.0563963373	-84.5093353901
HLX-347	H347	60	S MILL ST	38.0437213512	-84.5053136101
HLX-349	H349	228	CAMPSIE PL	38.0483011899	-84.4889265624
HLX-351	H351	101	LAFAYETTE AVE	38.036858192	-84.4866028409
HLX-352	H352	353	NELSON AVE	38.0440550748	-84.4808828336
HLX-354	H354	605	CHESTNUT ST	38.049541245	-84.4811823768
HLX-355	H355	299	E 6TH ST	38.0502122978	-84.4821246242
HLX-356	H356	336	LINDEN WALK	38.0383046796	-84.4973402849
HLX-357	H357	435	N MARTIN LUTHER KING BLVD	38.0502559251	-84.4877665194
HLX-358	H358	435	HAWKINS AVE	38.0466935554	-84.484146705
HLX-359	H359	623	ELSMERE PK	38.0559655074	-84.4875617323
HLX-360	H360	144	ALABAMA AVE	38.053980852	-84.4838016135
HLX-361	H361	652	N MARTIN LUTHER KING BLVD	38.0532141715	-84.4830385351
HLX-362	H362	741	CHARLES AVE	38.0605148461	-84.5023831044
HLX-363	H363	960	MANCHESTER ST	38.0534668069	-84.5112946669
HLX-364	H364		COLUMBIA AVE	38.03536262	-84.50228253
HLX-365	H365	242	RAND AVE	38.0508476579	-84.4845280937
HLX-366	H366	329	AYLESFORD PL	38.0375173798	-84.4966000399
HLX-368	H368	238	RODES AVE	38.043430569	-84.4988262223
HLX-369	H369	445	CHESTNUT ST	38.0473736907	-84.4843459585
HLX-370	H370	601	PATTERSON ST	38.0452763583	-84.5093685029
HLX-372	H372	437	SILVER MAPLE WAY	38.0493700461	-84.4869329807
HLX-373	H373	401	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-374	H374	401	LINDEN WALK	38.037055242	-84.4991433501
HLX-375	H375	401	AYLESFORD PL	38.0363268082	-84.4982916268
HLX-376	H376	637	N UPPER ST	38.0555046715	-84.4861900174
HLX-377	H377	334	WILGUS AVE	38.045372326	-84.4854965656
HLX-378	H378	741	WHITNEY AVE	38.0599003498	-84.5032966892
HLX-379	H379	525	SMITH ST	38.057886293	-84.4930637562
HLX-380	H380	1403	VERSAILLES RD	38.0576963652	-84.4998074198
HLX-381	H381	539	TONER ST	38.0548583079	-84.4892645059
HLX-382	H382	437	OHIO ST	38.0478817648	-84.4852982427

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-383	H383	335	OHIO ST	38.0463774215	-84.4873235224
HLX-384	H384	338	CORRAL ST	38.0441696105	-84.4900081861
HLX-385	H385	421	CORRAL ST	38.042717828	-84.4883943798
HLX-386	H386	512	PINE ST	38.0463393523	-84.5065348302
HLX-387	H387	135	GRAHAM AVE	38.036282499	-84.5065531944
HLX-388	H388	337	LEXINGTON AVE	38.0407067198	-84.500254328
HLX-389	H389	109	W LOUDON AVE	38.0580965204	-84.4823057883
HLX-390	H390	50	E 7TH ST	38.0496360859	-84.4773962294
HLX-391	H391	728	E MAIN ST	38.0352028917	-84.4846518312
HLX-392	H392	251	S ASHLAND AVE	38.0326134263	-84.4880987972
HLX-393	H393	111	HAGERMAN CT	38.0420161146	-84.4971684947
HLX-395	H395	455	NELMS AVE	38.0403630704	-84.5162707146
HLX-396	H396	444	HAYMAN AVE	38.0436675368	-84.5100368458
HLX-397	H397	531	RUSSELL AVE	38.0401706287	-84.4855710386
HLX-398	H398	536	SAYRE AVE	38.0391434836	-84.4869551269
HLX-399	H399	307	S ASHLAND AVE	38.0311224624	-84.4902978416
HLX-400	H400	528	GROVE LN	38.0529524427	-84.4816353783
HLX-403	H403	183	WALTON AVE	38.0388235644	-84.4825292928
HLX-404	H404	143	WALTON AVE	38.0377438594	-84.4843077459
HLX-405	H405	112	W LOUDON AVE	38.0577476412	-84.4822132187
HLX-406	H406	55	MENTELLE PK	38.0364282441	-84.4784024288
HLX-407	H407	213	WALTON AVE	38.0396523421	-84.4816761583
HLX-408	H408	248	E LOUDON AVE	38.0537710344	-84.4777093965
HLX-409	H409	657	CHESTNUT ST	38.050940208	-84.4792769378
HLX-410	H410	437	PASADENA DR	38.0523724764	-84.4807987863
HLX-411	H411	290	E LOUDON AVE	38.0522235856	-84.4759114903
HLX-412	H412	134	E 7TH ST	38.0545030288	-84.483389259
HLX-413	H413	70	JACKSON ST	38.0480836303	-84.4753451358
HLX-414	H414	776	N LIMESTONE	38.0567522134	-84.4822044368
HLX-415	H415	144	E LOUDON AVE	38.0563317425	-84.4804230219
HLX-417	H417	70	E MAIN ST	38.0359957167	-84.4855789851
HLX-418	H418	801	S LIMESTONE	38.0332700641	-84.5090630164
HLX-419	H419	668	E 7TH ST	38.0468102199	-84.473630154
HLX-420	H420	524	SHELBY ST	38.0498342808	-84.4753168424

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-421	H421	601	SHELBY ST	38.0488577605	-84.474040384
HLX-422	H422	572	BRECKENRIDGE ST	38.0473954504	-84.476469628
HLX-423	H423	633	CHESTNUT ST	38.0501461	-84.48027727
HLX-424	H424	438	BRECKENRIDGE ST	38.0493602266	-84.479130454
HLX-425	H425	634	SHROPSHIRE AVE	38.0487281267	-84.4782963081
HLX-427	H427	601	E HIGH ST	38.0340896194	-84.4916330274
HLX-429	H429	626	E HIGH ST	38.0333233958	-84.4912405157
HLX-430	H430	551	E 6TH ST	38.0479386909	-84.4796938181
HLX-431	H431	176	N ASHLAND AVE	38.0374628159	-84.4812892566
HLX-432	H432	151	N ASHLAND AVE	38.0366554515	-84.4824070725
HLX-433	H433	198	N ASHLAND AVE	38.0381003703	-84.4803308862
HLX-434	H434	117	N ASHLAND AVE	38.0359923361	-84.4833940775
HLX-435	H435	199	N HANOVER AVE	38.0371137019	-84.4792457887
HLX-436	H436	151	N HANOVER AVE	38.0357275161	-84.4812560081
HLX-437	H437	833	E MAIN ST	38.0343151877	-84.4833053051
HLX-438	H438	127	N HANOVER AVE	38.0350352897	-84.4823009644
HLX-439	H439	177	N HANOVER AVE	38.0364406754	-84.4802242247
HLX-440	H440	198	E LOUDON AVE	38.054814433	-84.4789576541
HLX-441	H441	845	BRYAN AVE	38.05734934	-84.4734026
HLX-442	H442	1021	N LIMESTONE	38.0597542999	-84.4779366739
HLX-443	H443	201	ARCEME AVE	38.0580249253	-84.4757576062
HLX-444	H444	997	BRYAN AVE	38.0569426317	-84.4748727989
HLX-445	H445	1203	N LIMESTONE	38.061009493	-84.4760929051
HLX-446	H446	20	CARLISLE AVE	38.0591759959	-84.474194084
HLX-447	H447	259	CARLISLE AVE	38.0577579406	-84.4724518069
HLX-448	H448	1101	BRYAN AVE	38.0573633722	-84.4736288218
HLX-449	H449	1105	N LIMESTONE	38.06042371	-84.4770277171
HLX-451	H451	180	DEVONIA AVE	38.0586685668	-84.475133834
HLX-452	H452	345	LAFAYETTE AVE	38.0319976407	-84.4931155297
HLX-453	H453	338	OLDHAM AVE	38.0340989457	-84.4929579005
HLX-454	H454	412	ROSE ST	38.0369731097	-84.5009850967
HLX-456	H456	276	KENTUCKY AVE	38.0338250572	-84.4951759029
HLX-457	H457	135	CLAY AVE	38.0350522021	-84.4869401933
HLX-458	H458	20	S ASHLAND AVE	38.0340768028	-84.4860129873

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-459	H459	129	HAGERMAN CT	38.0414132079	-84.4979771114
HLX-460	H460	2356	WOODFIELD CIR	38.0340822531	-84.5087612076
HLX-461	H461	693	S LIMESTONE	38.0351681097	-84.508314832
HLX-462	H462	131	VIRGINIA AVE	38.0352064669	-84.5094733003
HLX-463	H463	181	VIRGINIA AVE	38.0356276316	-84.5110788188
HLX-464	H464	360	S BROADWAY PK	38.0385607844	-84.5134208588
HLX-465	H465	336	S BROADWAY PK	38.0379542374	-84.5128055524
HLX-467	H467	1076	S BROADWAY	38.0374223769	-84.5172599924
HLX-468	H468	1030	S BROADWAY	38.0375706596	-84.5166631949
HLX-469	H469	373	VIRGINIA AVE	38.037894269	-84.5141893244
HLX-471	H471	1101	WINBAK WAY	38.042072944	-84.519172997
HLX-472	H472	324	S MARTIN LUTHER KING BLVD	38.0416820322	-84.500678111
HLX-473	H473	469	JOHNSON AVE	38.0517167576	-84.4877721932
HLX-474	H474	536	GEORGETOWN ST	38.0633311808	-84.5021334186
HLX-475	H475	665	GEORGETOWN ST	38.0665104801	-84.5031641743
HLX-476	H476	726	GEORGETOWN ST	38.0676116623	-84.5035399207
HLX-477	H477	572	GEORGETOWN ST	38.0647058674	-84.5025697078
HLX-478	H478	508	GEORGETOWN ST	38.0627169345	-84.5019428661
HLX-479	H479	533	NEWTOWN PIKE	38.0628276012	-84.5002466987
HLX-480	H480	2025	PLANTERS CT	38.0642411464	-84.4996807708
HLX-481	H481	532	BOOKER ST	38.0619246103	-84.5005508332
HLX-483	H483	828	CHARLES AVE	38.0617398116	-84.5037017854
HLX-484	H484	869	WHITNEY AVE	38.061829755	-84.505451665
HLX-485	H485	437	BOURBON AVE	38.0558158451	-84.4941343611
HLX-486	H486	843	S BROADWAY	38.0414598805	-84.515649862
HLX-487	H487	471	NELMS AVE	38.0406793032	-84.5168803042
HLX-488	H488	746	MAPLE AVE	38.0540133291	-84.4802059773
HLX-489	H489	578	WOODLAND AVE	38.0387068221	-84.4902271963
HLX-490	H490	455	WOODLAND AVE	38.0333552346	-84.4978732293
HLX-491	H491	801	WHITNEY AVE	38.0605070878	-84.5039262843
HLX-492	H492	425	COLUMBIA AVE	38.0336154273	-84.5005310451
HLX-493	H493		COLUMBIA AVE	38.03433211	-84.50111856
HLX-494	H494	675	WINCHESTER RD	38.0415226058	-84.4796360672
HLX-495	H495	772	WINCHESTER RD	38.0413909498	-84.4757725326

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-496	H496	80	WINCHESTER RD	38.0415450393	-84.4737886878
HLX-497	H497	659	PRICE AVE	38.059772762	-84.4892291348
HLX-498	H498	717	N BROADWAY	38.0585675621	-84.4863546471
HLX-499	H499	739	DAKOTA ST	38.0580524436	-84.4851411714
HLX-500	H500	4704	SPRING CREEK DR	38.0499669388	-84.5168159085
HLX-501	H501	1175	VERSAILLES RD	38.0499782791	-84.5183669648
HLX-502	H502	50	ROBERTSON ST	38.0514041957	-84.5154596105
HLX-506	H506	565	ROSE ST	38.0341971349	-84.5051419321
HLX-507	H507	0	FORBES RD	38.0349417254	-84.5061162871
HLX-508	H508	3813	BLACKBERRY LN	38.0326137001	-84.5102680839
HLX-509	H509	919	S LIMESTONE	38.0316253948	-84.5096830659
HLX-510	H510	601	BOONESBORO AVE	38.0407173923	-84.4837617553
HLX-511	H511	935	CHARLES AVE	38.0633459974	-84.5055341546
HLX-512	H512	655	W 2ND ST	38.0567366712	-84.5037007443
HLX-513	H513	272	CLAY AVE	38.033009711	-84.4898721102
HLX-515	H515	325	ROSS AVE	38.055020921	-84.4973061094
HLX-516	H516	340	E 7TH ST	38.0516382855	-84.4799264395
HLX-517	H517	324	HAMPTON CT	38.0548442217	-84.4966083628
HLX-518	H518	321	LAFAYETTE AVE	38.0327454625	-84.4920136543
HLX-519	H519	171	N UPPER ST	38.0485998241	-84.496016231
HLX-520	H520	3948	GRASSY CREEK DR	38.0342238103	-84.4880328842
HLX-521	H521	319	CLAY AVE	38.0319734877	-84.4915674953
HLX-522	H522	641	E EUCLID AVE	38.0313481147	-84.4926069521
HLX-523	H523	223	RACE ST	38.0437140672	-84.4869070122
HLX-524	H524	301	ASH ST	38.0629883654	-84.5066731115
HLX-526	H526	333	PARK AVE	38.0333944348	-84.4925972754
HLX-527	H527	547	E EUCLID AVE	38.0326436663	-84.4938061931
HLX-528	H528	134	LEADER AVE	38.0333901088	-84.5101323098
HLX-529	H529	116	CLAY AVE	38.0355786685	-84.4862066138
HLX-530	H530	1135	RED MILE PL	38.0642430383	-84.5037564201
HLX-531	H531	874	W MAIN ST	38.0571875903	-84.5104947189
HLX-532	H532	336	CAMPSIE PL	38.0471451073	-84.4885181856
HLX-535	H535	797	PRESS AVE	38.0338793486	-84.5118371658
HLX-536	H536	339	LEXINGTON AVE	38.0401356544	-84.5010384189

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-540	H540	263	WILLARD ST	38.0516621328	-84.5117912349
HLX-541	H541	101	VALLEY AVE	38.051061463	-84.5120113123
HLX-542	H542	128	EDDIE ST	38.0552000778	-84.4828415786
HLX-543	H543	157	EDDIE ST	38.0545885198	-84.4821627739
HLX-545	H545	931	VALLEY AVE	38.0510012012	-84.5104573122
HLX-546	H546	70	E 7TH ST	38.0462285375	-84.4728268032
HLX-547	H547	431	CAMPBELL ST	38.0531249865	-84.4914072529
HLX-548	H548	601	CHESTNUT OAK WAY	38.0647064679	-84.5005563165
HLX-549	H549	306	S BROADWAY PK	38.0372914769	-84.5121147165
HLX-550	H550	1224	SPECULATOR CT	38.0449365173	-84.5076746315
HLX-551	H551	240	W VINE ST	38.0470612447	-84.4992416195
HLX-552	H552	240	W VINE ST	38.0470613444	-84.4995358645
HLX-553	H553	615	MAPLE AVE	38.052245798	-84.4826176906
HLX-554	H554	40	S LIMESTONE	38.04037	-84.50549
HLX-556	H556	218	S ASHLAND AVE	38.0334675526	-84.4868708083
HLX-557	H557	276	S ASHLAND AVE	38.0319202626	-84.4890131591
HLX-558	H558	720	CRAMER AVE	38.038862248	-84.4809713706
HLX-559	H559	333	W VINE ST	38.0475666313	-84.5000148884
HLX-560	H560		PINE ST	38.04941681	-84.50967744
HLX-562	H562	616	DE ROODE ST	38.0471341826	-84.510726257
HLX-564	H564	824	BENNETT AVE	38.0482901033	-84.5185045023
HLX-565	H565	796	BENNETT AVE	38.0473561586	-84.5182160559
HLX-566	H566	434	JEFFERSON ST	38.0571461231	-84.4955157212
HLX-567	H567	137	CHURCH ST	38.0478401169	-84.4959995224
HLX-568	H568	0	PLEASANT STONE ST	38.0471454313	-84.4939550403
HLX-570	H570	656	SMUGGLERS NOTCH DR	38.0343279406	-84.48136082
HLX-571	H571	40	MENTELLE PK	38.0356272495	-84.4794689338
HLX-572	H572	346	S MARTIN LUTHER KING BLVD	38.0409471645	-84.5014790785
HLX-573	H573	591	S LIMESTONE	38.041371557	-84.5062114511
HLX-574	H574	162	BONNIE BRAE DR	38.0366623322	-84.5106663538
HLX-575	H575	0	W 5TH ST	38.0557181348	-84.4921866582
HLX-582	H582	321	S ASHLAND AVE	38.03048718	-84.49108055
HLX-583	H583	633	OHIO ST	38.0509115961	-84.4811042494
HLX-585	H585	1	SHREVE AVE	38.0402453301	-84.4921050373

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-586	H586	531	PATTERSON ST	38.0463323437	-84.5081786672
HLX-587	H587	220	CORRAL ST	38.0456600782	-84.4925548264
HLX-588	H588	528	GOODLOE ST	38.0429745343	-84.4861029078
HLX-590	H590	201	MOUSAS WAY	38.0578510831	-84.4785649798
HLX-591	H591	575	W 6TH ST	38.0605330618	-84.4936116908
HLX-594	H594	389	OLDHAM AVE	38.0332146019	-84.494268803
HLX-595	H595	609	RUSSELL AVE	38.0394211119	-84.4847355686
HLX-596	H596	132	RAND AVE	38.0525579998	-84.4864349152
HLX-598	H598	418	ROSE LN	38.0356260021	-84.4993443221
HLX-599	H599	777	ANGLIANA AVE	38.0485718318	-84.5149211271
HLX-601	H601	60	HADLOW ST	38.0433879451	-84.5058423665
HLX-602	H602	331	CHURCH ST	38.0495693735	-84.4979094557
HLX-603	H603	154	E SHORT ST	38.0568309531	-84.484166529
HLX-604	H604	2549	FLYING EBONY DR	38.0409302556	-84.5091273726
HLX-605	H605	30	WOODLAND AVE	38.0363911595	-84.4935010471
HLX-607	H607	620	W SHORT ST	38.0528326409	-84.5030145428
HLX-609	H609	622	W 4TH ST	38.0594262384	-84.4999401944
HLX-610	H610	2404	ENGLISH STATION DR	38.0330384225	-84.512092688
HLX-611	H611	130	E BELL CT	38.0383343767	-84.485984517
HLX-619	H619	428	DAVIDSON CT	38.058132656	-84.488976365
HLX-622	H622	524	DUNAWAY ST	38.0457188623	-84.5076470514
HLX-623	H623	561	S BROADWAY	38.0441249644	-84.5069397745
HLX-624	H624	194	MONTMULLIN ST	38.0390583446	-84.5104284772
HLX-626	H626	482	ANGLIANA AVE	38.0442668913	-84.5137266283
HLX-627	H627	458	ANGLIANA AVE	38.0433688393	-84.512767179
HLX-628	H628	329	VIRGINIA AVE	38.0367739878	-84.5137615287
HLX-629	H629	490	CURRY AVE	38.0439917454	-84.514922409
HLX-630	H630	121	S HANOVER AVE	38.0335583748	-84.4843107023
HLX-631	H631	623	SHELBY ST	38.0482811085	-84.4731959677
HLX-633	H633	1064	MANCHESTER ST	38.0542219421	-84.5132598861
HLX-634	H634	497	ANGLIANA AVE	38.0447910708	-84.5127535372
HLX-635	H635	108	BUCHANAN ST	38.0556690055	-84.5097714036
HLX-636	H636	525	BOONESBORO AVE	38.0414029246	-84.484511792
HLX-637	H637	615	BOONESBORO AVE	38.0400101257	-84.4829838143

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-638	H638	124	YORK ST	38.055804841	-84.4822538729
HLX-639	H639	156	YORK ST	38.0550554439	-84.4813674486
HLX-640	H640	198	PRALL ST	38.0384802634	-84.5109811118
HLX-641	H641	188	COLFAX ST	38.0396309884	-84.5099272415
HLX-642	H642	539	COLUMBIA AVE	38.0314857904	-84.4979165227
HLX-643	H643	567	COLUMBIA AVE	38.0305964457	-84.4969039076
HLX-644	H644	435	PARK AVE	38.0318064974	-84.4950835435
HLX-645	H645	423	MARQUIS AVE	38.0307556179	-84.4941564516
HLX-646	H646	451	S ASHLAND AVE	38.0296315133	-84.492441972
HLX-647	H647	463	ASHLAND TER	38.0301046445	-84.493493777
HLX-648	H648	844	E EUCLID AVE	38.0294057658	-84.4904961402
HLX-649	H649	725	LANCASTER AVE	38.0531251379	-84.4798363187
HLX-652	H652	144	TRANSCRIPT AVE	38.0318798495	-84.5111346787
HLX-653	H653	621	ELM TREE LN	38.0515168991	-84.4819398066
HLX-654	H654	1248	HAMMOND AVE	38.0480781174	-84.5205193228
HLX-655	H655	646	MAXWELTON CT	38.0363125118	-84.5091857352
HLX-656	H656	474	ANGLIANA AVE	38.0438371849	-84.5133120055
HLX-657	H657	411	KENILWORTH CT	38.0551132712	-84.4934569236
HLX-658	H658	237	PERRY ST	38.0525691239	-84.5120600702
HLX-659	H659	730	AURORA AVE	38.0387756732	-84.4793882049
HLX-661	H661	902	AURORA AVE	38.0375989724	-84.4782483821
HLX-662	H662	235	WALTON AVE	38.0403688202	-84.4807718862
HLX-663	H663	434	DE ROODE ST	38.0444460263	-84.5084581591
HLX-664	H664	726	FRANKLIN AVE	38.0373436191	-84.482725731
HLX-665	H665	724	BULLOCK PL	38.0367268531	-84.4836490931
HLX-666	H666	423	DELCAMP DR	38.0591760299	-84.4881946547
HLX-668	H668	155	GRAHAM AVE	38.0354240931	-84.505579647
HLX-669	H669	405	ROBERTSON ST	38.0525729551	-84.5155737334
HLX-670	H670	243	STONE AVE	38.0409639525	-84.4971374731
HLX-671	H671	255	LYNDHURST PL	38.04151	-84.49626
HLX-672	H672	138	S HANOVER AVE	38.0327631184	-84.4848435317
HLX-673	H673	905	WINCHESTER RD	38.0416599312	-84.4715479598
HLX-674	H674	924	AURORA AVE	38.0365906023	-84.4769995181
HLX-675	H675	225	S HANOVER AVE	38.0321704051	-84.4862688967

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-676	H676	839	PRESS AVE	38.0323407832	-84.5123959871
HLX-677	H677	133	RANSOM AVE	38.0389845914	-84.4922623862
HLX-678	H678	11	PRESTON CT	38.0395467011	-84.4926898486
HLX-679	H679	764	BENNETT AVE	38.0462607258	-84.5178744724
HLX-680	H680	520	OLDHAM CT	38.0301064856	-84.4982575169
HLX-683	H683	438	MICHIGAN ST	38.0630875357	-84.5035919709
HLX-685	H685	445	OLDHAM AVE	38.0319096915	-84.4964742892
HLX-686	H686	918	N LIMESTONE	38.0590106492	-84.4790082194
HLX-687	H687	247	S HANOVER AVE	38.0315389012	-84.4873778552
HLX-689	H689	720	ROSE ST	38.0332658492	-84.5061451868
HLX-690	H690	764	ROSE ST	38.0326046737	-84.5071077065
HLX-691	H691	848	N LIMESTONE	38.0582181144	-84.4801609142
HLX-692	H692	125	WITTLAND LN	38.0572437261	-84.479883757
HLX-693	H693	437	ELM ST	38.0623331512	-84.5026792421
HLX-694	H694	359	BUCOTO CT	38.0387210663	-84.5122723924
HLX-695	H695	120	CHRYSALIS CT	38.0437402389	-84.4991682065
HLX-696	H696	532	E 7TH ST	38.0490117904	-84.4765874052
HLX-698	H698	729	PRICE AVE	38.0605420679	-84.4880935852
HLX-699	H699	530	E LOUDON AVE	38.0512081782	-84.4746289153
HLX-701	H701	265	S HANOVER AVE	38.0307445251	-84.4882544483
HLX-702	H702	1236	EMBRY AVE	38.0473408478	-84.5195998917
HLX-703	H703	760	WINCHESTER RD	38.0412793005	-84.4772017756
HLX-704	H704	630	BRECKENRIDGE ST	38.0467423201	-84.4754581025
HLX-706	H706	542	GRINSTEAD ST	38.0444110428	-84.4839882107
HLX-707	H707	566	GRINSTEAD ST	38.0924286897	-84.5312439497
HLX-708	H708	544	E LOUDON AVE	38.0506873424	-84.4739098894
HLX-709	H709	655	E LOUDON AVE	38.0497936568	-84.4724356498
HLX-710	H710	1976	EDGEWORTH DR	38.0396605548	-84.4912686653
HLX-711	H711	109	JANE ST	38.0515477248	-84.514029003
HLX-712	H712	429	SPEIGLE ST	38.0527059618	-84.5147595947
HLX-713	H713	953	HIGHLAND PARK DR	38.0540360396	-84.4722235512
HLX-714	H714	1017	RICHMOND RD	38.0329771652	-84.4816893231
HLX-715	H715	1109	RICHMOND RD	38.0323796946	-84.4811232704
HLX-716	H716	1135	RICHMOND RD	38.0318379286	-84.4805042404

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-717	H717	117	DESHA RD	38.0327148942	-84.4833335598
HLX-718	H718	118	DESHA RD	38.0319709129	-84.4833874758
HLX-719	H719	231	DESHA RD	38.0313025013	-84.4852403185
HLX-720	H720	303	DESHA RD	38.0306831625	-84.4864066686
HLX-721	H721	326	DESHA RD	38.0299044694	-84.4878041786
HLX-722	H722	1014	FONTAINE RD	38.0292479189	-84.4888173192
HLX-723	H723	105	IRVINE RD	38.0317690596	-84.4822694659
HLX-725	H725	235	IRVINE RD	38.0304162267	-84.4843243567
HLX-726	H726	301	IRVINE RD	38.0296625343	-84.4855933672
HLX-728	H728	344	IRVINE RD	38.0284292462	-84.4873926756
HLX-729	H729	125	MCDOWELL RD	38.0308600991	-84.4812248761
HLX-730	H730	1124	FINCASTLE RD	38.0302855449	-84.4823478394
HLX-732	H732	244	MCDOWELL RD	38.0286559315	-84.4844174204
HLX-733	H733	1136	FONTAINE RD	38.0277309566	-84.4861071388
HLX-734	H734	310	S HANOVER AVE	38.0301505884	-84.4891019576
HLX-735	H735	904	TATES CREEK RD	38.0275049789	-84.4908278755
HLX-736	H736	820	SUNSET DR	38.0278694359	-84.4920818967
HLX-737	H737	604	KASTLE RD	38.0283813037	-84.4934876918
HLX-738	H738	715	SUNSET DR	38.0289685785	-84.494516579
HLX-739	H739	105	TATES CREEK RD	38.0265296971	-84.4909670578
HLX-740	H740	822	MELROSE AVE	38.0271037876	-84.4924315722
HLX-741	H741	624	KASTLE RD	38.0275402869	-84.4938751756
HLX-742	H742	619	BEAUMONT AVE	38.0284152816	-84.4956420261
HLX-743	H743	110	TATES CREEK RD	38.0255715597	-84.4911974909
HLX-744	H744	836	TREMONT AVE	38.0260862309	-84.4926642493
HLX-746	H746	637	BEAUMONT AVE	38.0278092746	-84.4962044443
HLX-748	H748	684	MONTGOMERY AVE	38.0445698156	-84.4716520368
HLX-749	H749	325	GIVEN AVE	38.0390613105	-84.4773657154
HLX-750	H750	318	VINE ST	38.0412306114	-84.493496065
HLX-751	H751	1302	RICHMOND RD	38.0312040281	-84.4797903061
HLX-752	H752	1033	S LIMESTONE	38.0308729588	-84.5098608569
HLX-760	H760	901	GEORGETOWN ST	38.0706498252	-84.5045515629
HLX-761	H761	621	WINCHESTER RD	38.0419152963	-84.4805359491
HLX-762	H762	422	KENTUCKY CT	38.0329923219	-84.4962979077

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-765	H765	201	E VINE ST	38.0438709781	-84.4961070345
HLX-766	H766	0	E VINE ST	38.0431676874	-84.4953347313
HLX-767	H767	260	E VINE ST	38.0424273652	-84.4948122343
HLX-768	H768	225	PINE ST	38.0440718295	-84.5037372922
HLX-769	H769	220	CEDAR ST	38.0432902281	-84.5048526638
HLX-770	H770	412	GUNN ST	38.0451389816	-84.4888216221
HLX-772	H772	1141	COOLIDGE ST	38.0526523026	-84.5166229495
HLX-773	H773	220	WICKLIFFE ST	38.0462209482	-84.4917904329
HLX-774	H774	1230	FINCASTLE RD	38.0293535642	-84.4822088574
HLX-775	H775	739	NATIONAL AVE	38.0406664849	-84.4792966109
HLX-776	H776	142	RACE ST	38.0420778447	-84.4891666794
HLX-777	H777	525	CORRAL ST	38.0419595653	-84.4875027093
HLX-779	H779	830	S LIMESTONE	38.0324842216	-84.509260864
HLX-782	H782	534	ANGLIANA AVE	38.0464544447	-84.5154757164
HLX-783	H783	855	ANGLIANA AVE	38.0490453676	-84.5158950383
HLX-784	H784	316	ROSE LN	38.0363350835	-84.5001725454
HLX-786	H786	260	WARNOCK ST	38.0437517656	-84.4850225929
HLX-789	H789	910	DELAWARE AVE	38.0405908168	-84.4735037835
HLX-791	H791	737	LANCASTER AVE	38.0536982998	-84.4790040673
HLX-792	H792	597	S UPPER ST	38.0406100867	-84.506489335
HLX-793	H793	599	S UPPER ST	38.0398484351	-84.5067210464
HLX-794	H794	840	ANGLIANA AVE	38.0480685871	-84.5159008773
HLX-795	H795	573	ANGLIANA AVE	38.0473402034	-84.5156692198
HLX-796	H796	132	AVON AVE	38.0582619541	-84.4779699897
HLX-797	H797	914	NATIONAL AVE	38.0390252921	-84.4759575416
HLX-798	H798	0	JEFFERSON ST	38.0510283006	-84.5033737054
HLX-799	H799	1020	W MAIN ST	38.0597632424	-84.5146099677
HLX-801	H801	80	N LIMESTONE	38.0573365269	-84.4813829077
HLX-802	H802	155	E MAIN ST	38.0455440437	-84.4959714033
HLX-803	H803	461	MARQUIS AVE	38.0298947662	-84.4953359719
HLX-804	H804	1225	TATES CREEK RD	38.024000178	-84.4912834507
HLX-805	H805	501	PARK VIEW AVE	38.0548008667	-84.4709789372
HLX-806	H806	332	N ASHLAND AVE	38.0396362755	-84.477829018
HLX-807	H807	299	CASSIDY AVE	38.0229391979	-84.489440688

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-808	H808	30	COLONY BLVD	38.0221198865	-84.4881077525
HLX-810	H810	327	CARLISLE AVE	38.0568656633	-84.471553656
HLX-812	H812	331	DUKE RD	38.0202336708	-84.4878059015
HLX-813	H813	344	COLONY BLVD	38.020700899	-84.4889405941
HLX-814	H814	921	HIGHLAND PARK DR	38.0541187455	-84.4742039484
HLX-815	H815	1121	COOPER DR	38.0188750037	-84.4882260876
HLX-817	H817	910	GEORGETOWN ST	38.0716779179	-84.504900138
HLX-818	H818	140	GLENN PL	38.0572482778	-84.4789236663
HLX-819	H819	401	PARK VIEW AVE	38.0559099938	-84.4722829919
HLX-820	H820	100	RUSSELL CAVE RD	38.062674367	-84.4845462118
HLX-821	H821	901	N BROADWAY	38.060706462	-84.483142357
HLX-822	H822	1030	MCCLAIN DR	38.062812793	-84.4820285718
HLX-823	H823	555	HASKINS DR	38.0671358838	-84.4995898209
HLX-825	H825	721	HEADLEY AVE	38.0601780062	-84.4867224201
HLX-826	H826	777	N BROADWAY	38.0593530037	-84.4851331432
HLX-837	H837	970	CARNEAL RD	38.0544444774	-84.4674844369
HLX-838	H838	928	CARNEAL RD	38.0532934109	-84.4684996203
HLX-840	H840	837	MARCELLUS DR	38.0505550436	-84.4703405027
HLX-841	H841	663	E LOUDON AVE	38.0493928401	-84.4716936683
HLX-842	H842	923	JOURNAL AVE	38.0319893933	-84.5139441966
HLX-843	H843	201	CONN TER	38.031326114	-84.5122943993
HLX-844	H844	145	ST JAMES DR	38.0206321774	-84.4636327439
HLX-845	H845	10	IDLE HOUR DR	38.0216233563	-84.4684355722
HLX-846	H846	159	IDLE HOUR DR	38.0233077636	-84.466152379
HLX-847	H847	196	IDLE HOUR DR	38.0242087605	-84.4648154595
HLX-848	H848	262	IDLE HOUR DR	38.0258707982	-84.4625400404
HLX-849	H849	142	ST MARGARET DR	38.0221262053	-84.4652806512
HLX-850	H850	2029	COBURN BLVD	38.021258237	-84.4664997926
HLX-851	H851	145	ST WILLIAMS DR	38.0214413842	-84.4644253302
HLX-852	H852	2053	COBURN BLVD	38.0205238119	-84.4657090856
HLX-853	H853	118	ST JAMES DR	38.0197762511	-84.4648378931
HLX-854	H854	146	ST ANN DR	38.0198509104	-84.4626135738
HLX-855	H855	118	ST ANN DR	38.0189381524	-84.4638841877
HLX-856	H856	118	ST PHILLIP DR	38.0182818639	-84.4631501968

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-857	H857	146	ST PHILLIP DR	38.0191718492	-84.4618624941
HLX-858	H858	329	GARDEN RD	38.0195064745	-84.4847655876
HLX-859	H859	30	ROMANY RD	38.0207733522	-84.4853890364
HLX-860	H860	321	ROMANY RD	38.0199238824	-84.485838203
HLX-861	H861	361	ROMANY RD	38.0190768762	-84.4862281392
HLX-862	H862	1201	COOPER DR	38.0182678492	-84.486733968
HLX-863	H863	631	COOPER DR	38.0243648718	-84.4984598732
HLX-864	H864	90	RUSSELL CAVE RD	38.0613614269	-84.4846942982
HLX-865	H865	1832	RICHMOND RD	38.0247610992	-84.4724794193
HLX-866	H866	1310	RICHMOND RD	38.0306157253	-84.4793779174
HLX-867	H867	1636	RICHMOND RD	38.0279256466	-84.4760431771
HLX-868	H868	1701	CLAYS SPRING LN	38.0240262726	-84.4757478325
HLX-869	H869	1717	CLAYS SPRING LN	38.023376245	-84.4747785297
HLX-870	H870	201	CHINOE RD	38.0247142681	-84.4770751572
HLX-871	H871	239	CHINOE RD	38.0236726456	-84.4792388654
HLX-872	H872	30	CULPEPPER RD	38.0224509515	-84.4782562082
HLX-873	H873	1744	RICHMOND RD	38.0263093202	-84.4746906655
HLX-874	H874	80	DARLEY DR	38.048727899	-84.4708105732
HLX-875	H875	435	BAMBERGER RD	38.0698781759	-84.509135443
HLX-876	H876	440	TIBBS LN	38.069528517	-84.5081926369
HLX-877	H877	439	PRICE RD	38.069001847	-84.5075073795
HLX-878	H878	189	ST MARGARET DR	38.0239323179	-84.4630039681
HLX-879	H879	2042	ST MATHILDA DR	38.0232928476	-84.4622144406
HLX-880	H880	194	ST ANN DR	38.0212002895	-84.4605451103
HLX-881	H881	904	LIBERTY RD	38.0415337083	-84.4698709713
HLX-882	H882	210	CASTLEWOOD DR	38.054969452	-84.4770383523
HLX-883	H883	2128	ST MATHILDA DR	38.0221110251	-84.4611846317
HLX-884	H884	225	CLINTON RD	38.0220198256	-84.4769072225
HLX-885	H885	301	ADAIR RD	38.0209045583	-84.4755503864
HLX-886	H886	312	CLINTON RD	38.0208461145	-84.4774493522
HLX-887	H887	213	CLINTON RD	38.022540803	-84.4758044129
HLX-888	H888	1945	FONTAINE RD	38.0198317794	-84.4734956456
HLX-889	H889	280	CASTLEWOOD DR	38.0527041927	-84.4746742443
HLX-890	H890	929	IDLEWILD CT	38.0534148127	-84.4732797832

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-891	H891	914	OAK HILL DR	38.0528604166	-84.4723715738
HLX-892	H892	1118	OAK HILL DR	38.0547123888	-84.4695739595
HLX-893	H893	749	MT VERNON DR	38.0247710168	-84.4923591545
HLX-894	H894	744	BERRY LN	38.0240995434	-84.493198163
HLX-895	H895	741	PROVIDENCE RD	38.0233046598	-84.4938887761
HLX-896	H896	70	MT VERNON DR	38.0259710024	-84.4948833207
HLX-897	H897	70	BERRY LN	38.0252673764	-84.4955634289
HLX-898	H898	696	PROVIDENCE RD	38.0246086501	-84.4965451483
HLX-899	H899	673	BERRY LN	38.026043047	-84.4970938393
HLX-900	H900	660	PROVIDENCE RD	38.0253606098	-84.4979477526
HLX-901	H901	1453	TATES CREEK RD	38.0226538254	-84.4923824748
HLX-902	H902	672	MT VERNON DR	38.0268051294	-84.4964893351
HLX-903	H903	224	ST MARGARET DR	38.0247656373	-84.4618423728
HLX-904	H904	257	ST MARGARET DR	38.0258739939	-84.4604536384
HLX-905	H905	2053	ST CHRISTOPHER DR	38.024276924	-84.4592949177
HLX-906	H906	236	ST ANN DR	38.021722422	-84.4583471879
HLX-907	H907	424	CLINTON RD	38.019004134	-84.4787655458
HLX-908	H908	540	CLINTON RD	38.0165613838	-84.4802388655
HLX-909	H909	201	HART RD	38.0252747323	-84.4895607524
HLX-910	H910	941	WINCHESTER RD	38.0420070688	-84.4681777467
HLX-911	H911	1760	NICHOLASVILLE RD	38.018693632	-84.5141035811
HLX-912	H912	1610	NICHOLASVILLE RD	38.0219392475	-84.512725658
HLX-913	H913	1680	MERCER RD	38.0759541243	-84.5251243906
HLX-914	H914	434	HARBISON RD	38.0773313053	-84.524993374
HLX-915	H915	479	HARBISON RD	38.0792189361	-84.524659914
HLX-916	H916	1695	BAUMANN RD	38.0803022769	-84.5240308813
HLX-917	H917	1667	BAUMANN RD	38.0798509451	-84.5223624152
HLX-918	H918	1601	BAUMANN RD	38.0792045512	-84.5212761993
HLX-919	H919	436	FAIRMAN RD	38.0772060355	-84.521663843
HLX-920	H920	420	FAIRMAN RD	38.0757280953	-84.5219167358
HLX-921	H921	1267	SCOVILLE RD	38.0225331602	-84.499958061
HLX-922	H922	130	W LOUDON AVE	38.0588475937	-84.4834511179
HLX-923	H923	2012	ST TERESA DR	38.0259475409	-84.4595442227
HLX-924	H924	2056	ST TERESA DR	38.0244965004	-84.4586056727

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-925	H925	2112	ST TERESA DR	38.0225712276	-84.457977003
HLX-926	H926	2201	YOUNG DR	38.025730672	-84.4561651208
HLX-927	H927	2225	YOUNG DR	38.0251653519	-84.4554351678
HLX-929	H929	941	DE PORRES AVE	38.0708709995	-84.5086933345
HLX-930	H930	977	DE PORRES AVE	38.0722740615	-84.5093500416
HLX-931	H931	494	ERIE RD	38.0729191624	-84.5110633094
HLX-932	H932	949	LUCY LN	38.0716549979	-84.5100903037
HLX-933	H933	953	WAVERLY DR	38.0710198156	-84.5111869787
HLX-934	H934	1335	PRATHER RD	38.015687544	-84.4787401279
HLX-935	H935	1913	HART RD	38.0198902134	-84.4762387448
HLX-936	H936	401	BRISTOL RD	38.0188558661	-84.4750570326
HLX-937	H937	420	BRISTOL RD	38.0177693559	-84.4761863478
HLX-938	H938	1221	S BROADWAY	38.0353938571	-84.520977973
HLX-939	H939	437	PARKWAY DR	38.0348591818	-84.5219696475
HLX-940	H940	520	ANGLIANA AVE	38.0454200417	-84.5150723989
HLX-941	H941	105	GAINESWAY DR	37.9878177979	-84.4929416922
HLX-942	H942	3503	WILLOWOOD RD	37.9851220934	-84.4898322843
HLX-943	H943	3512	WILLOWOOD RD	37.98390596	-84.49076732
HLX-944	H944	3520	WILLOWOOD RD	37.9831607823	-84.4912984579
HLX-945	H945	3506	DANADA DR	37.9839048753	-84.4894280209
HLX-946	H946	3520	DANADA DR	37.9825325033	-84.4903985005
HLX-947	H947	3516	GREENTREE RD	37.983889627	-84.4882772188
HLX-948	H948	3526	GREENTREE RD	37.98291432	-84.4887872903
HLX-949	H949	3546	GREENTREE RD	37.981444991	-84.4898783365
HLX-950	H950	200	ST MICHAEL DR	38.0266838066	-84.4592151482
HLX-951	H951	2048	ST MICHAEL DR	38.0252966698	-84.4578202236
HLX-952	H952	2112	ST MICHAEL DR	38.0240706501	-84.4575123817
HLX-953	H953	2128	WILL FANT DR	38.0242124728	-84.4564051084
HLX-954	H954	274	ST ANN DR	38.0228578919	-84.4570539867
HLX-955	H955	1907	VERSAILLES RD	38.0483209509	-84.5394140607
HLX-956	H956	116	LONDONDERRY DR	38.0498345722	-84.5397255973
HLX-957	H957	130	LONDONDERRY DR	38.0512742007	-84.5399418946
HLX-958	H958	1350	S BROADWAY	38.0336546521	-84.5232952725
HLX-959	H959	0	ST MARGARET DR	38.0207760173	-84.4670924031

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-960	H960	0	ST ANN DR	38.0185966223	-84.4646702774
HLX-961	H961	1921	OXFORD CIR	38.0498884033	-84.5424394438
HLX-962	H962	129	CHANTILLY ST	38.052734012	-84.5435870173
HLX-963	H963	139	CHANTILLY ST	38.0531544866	-84.5423308653
HLX-964	H964	147	RUGBY RD	38.0522706333	-84.5416664767
HLX-965	H965	159	CHANTILLY ST	38.0548760497	-84.541229776
HLX-966	H966	1921	DUNKIRK DR	38.0564668942	-84.5398350813
HLX-967	H967	1909	PICADILLY ST	38.0536297951	-84.5403823386
HLX-968	H968	150	LONDONDERRY DR	38.05312353	-84.5393893741
HLX-969	H969	214	LONDONDERRY DR	38.0542612698	-84.5384499977
HLX-970	H970	230	LONDONDERRY DR	38.0554487629	-84.5377471639
HLX-971	H971	201	SAVOY RD	38.0530850364	-84.5379882295
HLX-972	H972	233	SAVOY RD	38.0542571515	-84.5373504571
HLX-973	H973	221	GARRETT AVE	38.0531810221	-84.536125659
HLX-974	H974	1665	BRITTANY LN	38.0538994694	-84.5357251604
HLX-975	H975	1629	BRITTANY LN	38.0531205718	-84.5341539836
HLX-976	H976	350	NEWPORT DR	37.9875551437	-84.4896470706
HLX-977	H977	3513	NEWPORT DR	37.9862732698	-84.4911731421
HLX-978	H978	1038	CLAIBORNE WAY	37.9856183236	-84.4871978921
HLX-979	H979	1014	CASTLETON WAY	37.9863626332	-84.4921502477
HLX-980	H980	3508	ARDEN PL	37.9874221043	-84.4911970031
HLX-981	H981	1017	GAINESWAY DR	37.9889507869	-84.4908177137
HLX-982	H982	1021	WHITEHALL PL	37.9861131082	-84.4898732403
HLX-983	H983	1024	CLAIBORNE WAY	37.9867272565	-84.4885500722
HLX-984	H984	1036	WHITEHALL PL	37.985336603	-84.4883275173
HLX-985	H985	3489	CASTLETON HILL	37.9887794895	-84.4927097499
HLX-986	H986	1601	ASHWOOD DR	38.027984021	-84.4789896709
HLX-987	H987	229	12TH ST	38.064189384	-84.4817900781
HLX-989	H989	1213	WINCHESTER RD	38.0428489581	-84.4595188947
HLX-990	H990	1013	INDUSTRY RD	38.043315353	-84.4603631844
HLX-991	H991	1275	EASTLAND DR	38.0459666239	-84.4563110216
HLX-992	H992	1350	EASTLAND DR	38.0459250428	-84.4548475672
HLX-993	H993	3474	GREENTREE RD	37.986588839	-84.4854595083
HLX-994	H994	3446	GREENTREE RD	37.98768	-84.48417

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-995	H995	3414	GREENTREE RD	37.9888580842	-84.4827738061
HLX-996	H996	903	ROYAL AVE	38.04274	-84.46981
HLX-997	H997	201	HILLCREST AVE	38.0429550196	-84.467794229
HLX-998	H998	30	HILLCREST AVE	38.0443469765	-84.4677133779
HLX-999	H999	801	SHELBY AVE	38.0442411724	-84.4686121935
HLX-1000	H1000	1111	WINCHESTER RD	38.0424284293	-84.4637437981
HLX-1001	H1001	1107	WINCHESTER RD	38.042333214	-84.4647181486
HLX-1002	H1002	856	E 7TH ST	38.042227833	-84.4707013874
HLX-1003	H1003	700	ALLENDALE RD	38.0272235536	-84.5341997627
HLX-1004	H1004	651	LANE ALLEN RD	38.0264123826	-84.5346033937
HLX-1005	H1005	660	MITCHELL AVE	38.0246547906	-84.5351567254
HLX-1006	H1006	2001	HARRODSBURG RD	38.0265855769	-84.5352775416
HLX-1007	H1007	2025	HARRODSBURG RD	38.026068366	-84.5362187982
HLX-1008	H1008	2099	HARRODSBURG RD	38.0255310624	-84.5372658367
HLX-1009	H1009	2018	DORSET DR	38.0534394432	-84.5451851786
HLX-1010	H1010	215	RUGBY RD	38.0548133062	-84.5396174141
HLX-1011	H1011	101	N BROADWAY	38.061506576	-84.4820193452
HLX-1012	H1012	1118	N BROADWAY	38.0627945396	-84.4801844249
HLX-1013	H1013	1705	NICHOLASVILLE RD	38.0201122642	-84.5136723592
HLX-1014	H1014	1255	EASTLAND DR	38.0457515135	-84.4575966922
HLX-1015	H1015	1142	EASTLAND DR	38.0464661832	-84.461317453
HLX-1016	H1016	1077	EASTLAND DR	38.0463074067	-84.4624133195
HLX-1017	H1017	1084	EASTLAND DR	38.045957505	-84.4629974823
HLX-1018	H1018	2171	YOUNG DR	38.0271861758	-84.4576011101
HLX-1019	H1019	2155	YOUNG DR	38.027793347	-84.4582037198
HLX-1020	H1020	821	PORTER PL	38.0485399543	-84.5171805122
HLX-1021	H1021	1922	CAMBRIDGE DR	38.0500917799	-84.5444167893
HLX-1022	H1022	229	MANDALAY RD	38.0552495151	-84.5431451719
HLX-1023	H1023	1926	DEAUVILLE DR	38.052014633	-84.5450345392
HLX-1024	H1024	101	ELMENDORF DR	37.9898458548	-84.4896566619
HLX-1025	H1025	107	ELMENDORF DR	37.9890797505	-84.4890771883
HLX-1026	H1026	80	FLOYD DR	38.0475	-84.46679
HLX-1027	H1027	852	FLOYD DR	38.047594015	-84.4661999493
HLX-1028	H1028	1876	DUNKIRK DR	38.0547056562	-84.5357181581

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1029	H1029	1860	DUNKIRK DR	38.0539985297	-84.5342634038
HLX-1030	H1030	172	DELMONT DR	38.0529614744	-84.5322119913
HLX-1031	H1031	136	DELMONT DR	38.0524014145	-84.5292830271
HLX-1032	H1032	1150	INDUSTRY RD	38.0475793565	-84.4594854782
HLX-1033	H1033	2255	EASTLAND PKY	38.049952065	-84.4377702028
HLX-1034	H1034	1610	FORT SUMTER DR	38.0503356663	-84.4426057577
HLX-1035	H1035	1622	AUBURN DR	38.049943584	-84.4393320111
HLX-1036	H1036	1703	SARASOTA CT	38.0514525717	-84.4377007909
HLX-1037	H1037	1610	AUBURN DR	38.0515790039	-84.4394017752
HLX-1039	H1039	1616	ATLANTA DR	38.0503882032	-84.440804958
HLX-1040	H1040	1042	ELMENDORF DR	37.9877980639	-84.4878580838
HLX-1041	H1041	1054	ELMENDORF DR	37.9868523052	-84.486903445
HLX-1042	H1042	3444	DIXIANA DR	37.9880336051	-84.4851798394
HLX-1043	H1043	1153	ARMSTRONG MILL RD	37.9797610754	-84.4878889975
HLX-1044	H1044	3598	OLYMPIA RD	37.9796905912	-84.4857114121
HLX-1045	H1045	3584	OLYMPIA RD	37.9804834985	-84.4870723346
HLX-1046	H1046	282	IDLE HOUR DR	38.0268824549	-84.4611419761
HLX-1047	H1047	857	CARNEAL RD	38.0517759033	-84.4705199493
HLX-1048	H1048	1949	DUNKIRK DR	38.0565656906	-84.541944658
HLX-1049	H1049	2028	DEAUVILLE DR	38.0529218836	-84.5463001091
HLX-1050	H1050	1907	WESTMINSTER DR	38.0511798388	-84.5413950714
HLX-1051	H1051	1622	RALEIGH RD	38.0526701008	-84.4419899733
HLX-1052	H1052	160	AUBURN DR	38.052982216	-84.4402773496
HLX-1053	H1053	1719	CHARLESTON CT	38.0509644955	-84.4359300723
HLX-1054	H1054	1703	CHARLESTON CT	38.0519994187	-84.436974768
HLX-1055	H1055	797	E NEW CIRCLE RD	38.0462848819	-84.4537752024
HLX-1056	H1056	1633	RALEIGH RD	38.0541729837	-84.4421498824
HLX-1057	H1057	1828	AUGUSTA DR	38.0548399118	-84.4411371891
HLX-1058	H1058	1607	RALEIGH RD	38.051451495	-84.4425155264
HLX-1059	H1059	180	BARWICK DR	38.0432295199	-84.4480574481
HLX-1060	H1060	1609	ATLANTA DR	38.0516472806	-84.440321836
HLX-1061	H1061	1079	E NEW CIRCLE RD	38.0356172449	-84.45384793
HLX-1062	H1062	102	BOYSENBERRY ST	38.0658415812	-84.5118759703
HLX-1063	H1063	3476	CASTLETON HILL	37.990050087	-84.4909614756

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1064	H1064	419	ADAIR RD	38.0183534497	-84.477501088
HLX-1065	H1065	1136	VENETIAN WAY	37.9816792257	-84.4876110174
HLX-1066	H1066	1160	VENETIAN WAY	37.9810547597	-84.4858361306
HLX-1067	H1067	1703	BILOXI CT	38.0525954998	-84.4363654983
HLX-1068	H1068	303	IDLE HOUR DR	38.0277192831	-84.4599598552
HLX-1069	H1069	170	E NEW CIRCLE RD	38.0632165181	-84.4682647369
HLX-1070	H1070	196	E NEW CIRCLE RD	38.0626449323	-84.4676720626
HLX-1071	H1071	305	NORTHLAND DR	38.0654916548	-84.4764171116
HLX-1072	H1072	105	LANE ALLEN RD	38.0322090074	-84.550025357
HLX-1073	H1073	2012	ALEXANDRIA DR	38.0309263311	-84.5495399254
HLX-1074	H1074	1033	CAMELLIA DR	38.0314260149	-84.551189093
HLX-1075	H1075	1052	CAMELLIA DR	38.0304726109	-84.550374056
HLX-1076	H1076	100	BALSAM DR	38.0293903154	-84.5504026135
HLX-1077	H1077	1028	JUNIPER DR	38.029207159	-84.5523915284
HLX-1078	H1078	219	SOUTHLAND DR	38.0133233727	-84.520601198
HLX-1079	H1079	801	MEADOW LN	38.048234811	-84.4697389612
HLX-1080	H1080	837	MEADOW LN	38.0491422697	-84.4686024872
HLX-1081	H1081	902	MEADOW LN	38.0515520434	-84.4963781793
HLX-1082	H1082	1033	MEADOW LN	38.0534008634	-84.4635571048
HLX-1083	H1083	1062	MEADOW LN	38.0540311107	-84.4625567445
HLX-1084	H1084	550	EMERSON DR	38.0555263482	-84.462440931
HLX-1085	H1085	1036	DARLEY DR	38.0543324427	-84.4639263322
HLX-1086	H1086	104	DARLEY DR	38.053369097	-84.4651201052
HLX-1087	H1087	924	DARLEY DR	38.052200883	-84.4665074974
HLX-1088	H1088	927	MARCELLUS DR	38.0526593445	-84.4677282064
HLX-1089	H1089	975	MARCELLUS DR	38.0538907674	-84.4663216594
HLX-1090	H1090	999	MARCELLUS DR	38.0544982244	-84.4655461914
HLX-1091	H1091	527	EMERSON DR	38.056368645	-84.4632384077
HLX-1092	H1092	1050	CARNEAL RD	38.0566287885	-84.4646026378
HLX-1093	H1093	1010	CARNEAL RD	38.0555986664	-84.4659999152
HLX-1094	H1094	437	EMERSON DR	38.0583229971	-84.4648928548
HLX-1095	H1095	505	CANE RUN RD	38.0715485933	-84.4728245403
HLX-1096	H1096	2089	VERSAILLES RD	38.0474518427	-84.5425775328
HLX-1097	H1097	2044	DORSET DR	38.0542300265	-84.54598969

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1098	H1098	105	NEWCASTLE ST	38.0551994546	-84.5478478785
HLX-1099	H1099	2064	DEAUVILLE DR	38.0539726056	-84.547731729
HLX-1100	H1100	209	LIVERPOOL DR	38.0558222027	-84.5467076092
HLX-1101	H1101	245	LIVERPOOL RD	38.0556745391	-84.5448512281
HLX-1102	H1102	1977	DUNKIRK DR	38.0565784687	-84.5438931308
HLX-1103	H1103	1879	ALEXANDRIA DR	38.0364924977	-84.5516662781
HLX-1104	H1104	654	GAY PL	38.0519778245	-84.4609098398
HLX-1105	H1105	408	SANDALWOOD DR	38.0641657402	-84.4497355702
HLX-1106	H1106	617	HI CREST DR	38.0579708449	-84.4484808034
HLX-1107	H1107	437	ANNISTON DR	38.0647344887	-84.4476719998
HLX-1108	H1108	221	NEWCASTLE CT	38.0566307506	-84.5455353697
HLX-1109	H1109	1212	VERSAILLES RD	38.0499367031	-84.5190543619
HLX-1110	H1110	209	OLEANDER DR	38.0296270965	-84.5487496163
HLX-1111	H1111	911	TEAROSE DR	38.0289493119	-84.5468678345
HLX-1112	H1112	208	TAMARACK DR	38.02855342	-84.5452709263
HLX-1113	H1113	916	HONEYSUCKLE RD	38.0296838018	-84.5466307017
HLX-1114	H1114	200	LARKSPUR DR	38.0285127396	-84.5435138432
HLX-1115	H1115	512	GIBSON AVE	38.0381770146	-84.5218880706
HLX-1116	H1116	560	DOVER RD	38.0757613045	-84.470881779
HLX-1117	H1117	549	GRANTCHESTER ST	38.0746010994	-84.4713178446
HLX-1118	H1118	316	E NEW CIRCLE RD	38.0595058763	-84.4645424857
HLX-1119	H1119	120	E NEW CIRCLE RD	38.0321333807	-84.4527866945
HLX-1120	H1120	1808	ALEXANDRIA DR	38.0373484558	-84.5522196753
HLX-1121	H1121	1777	ALEXANDRIA DR	38.0382722387	-84.5526091292
HLX-1122	H1122	1866	MANASSAS DR	38.0359792949	-84.5522743297
HLX-1123	H1123	1053	CROSS KEYS RD	38.0399969932	-84.5500560965
HLX-1124	H1124	849	DARLEY DR	38.0499240202	-84.4692963621
HLX-1125	H1125	409	MEADOW PK	38.0584517813	-84.4669272559
HLX-1126	H1126	426	MEADOW PK	38.0576750202	-84.4662500546
HLX-1127	H1127	136	SOUTHLAND DR	38.0122074125	-84.5188855919
HLX-1128	H1128	1524	CANTRILL DR	38.0500101114	-84.4487054514
HLX-1129	H1129	545	CANE RUN RD	38.074080515	-84.4727775405
HLX-1131	H1131	1101	MEADOW LN	38.0550382779	-84.4617273821
HLX-1132	H1132	639	EMERSON DR	38.0536116781	-84.4602248169

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1133	H1133	138	WABASH DR	38.0163879102	-84.5193233669
HLX-1134	H1134	70	DOBBIN RD	38.0109425681	-84.50024333
HLX-1136	H1136	1839	BELLEFONTE DR	38.0134607058	-84.5023767964
HLX-1137	H1137	1792	DARIEN DR	38.0376496888	-84.5537822768
HLX-1138	H1138	2378	ALLEN DR	38.086410493	-84.4516301791
HLX-1139	H1139	2725	TATES CREEK RD	38.0885787802	-84.4528525131
HLX-1140	H1140	10	SOUTHLAND DR	38.0113266689	-84.5170860579
HLX-1141	H1141	1431	NICHOLASVILLE RD	38.0259394576	-84.5115825132
HLX-1143	H1143	663	KINGSTON RD	38.0897125473	-84.4522642028
HLX-1144	H1144	444	FAIRMAN RD	38.0781222619	-84.5214971812
HLX-1145	H1145	1393	BORDEAUX DR	38.046548979	-84.5571906162
HLX-1146	H1146	1855	NORFOLK DR	38.0153534696	-84.5169037179
HLX-1147	H1147	164	WABASH DR	38.0171179698	-84.5211072082
HLX-1148	H1148	206	LACKAWANNA RD	38.0160929912	-84.5204971192
HLX-1149	H1149	108	LACKAWANNA RD	38.014336299	-84.5170954148
HLX-1150	H1150	128	LACKAWANNA RD	38.0153549205	-84.5186851858
HLX-1151	H1151	107	GOODRICH AVE	38.0137039166	-84.5174886029
HLX-1152	H1152	129	GOODRICH AVE	38.0144312682	-84.5189836097
HLX-1153	H1153	149	GOODRICH AVE	38.0151503512	-84.5205079735
HLX-1154	H1154	165	GOODRICH AVE	38.0157333845	-84.5216832026
HLX-1155	H1155	675	HI CREST DR	38.0560157131	-84.4463440491
HLX-1156	H1156	1504	CLARKSDALE CT	38.051006409	-84.4468571605
HLX-1157	H1157	1358	BORDEAUX DR	38.0480001132	-84.5568935011
HLX-1158	H1158	2370	LE HAVRE RD	38.0477251285	-84.5555574323
HLX-1159	H1159	2401	SEINE RD	38.0497002536	-84.5555498388
HLX-1160	H1160	2430	SEINE RD	38.0493922671	-84.5575059581
HLX-1161	H1161	299	SOUTHLAND DR	38.0151206064	-84.5225175749
HLX-1162	H1162	259	SOUTHLAND DR	38.0142651551	-84.5214627102
HLX-1163	H1163	230	PLAZA DR	38.0139854894	-84.5200588985
HLX-1164	H1164	1837	BRYAN STATION RD	38.06379	-84.45282
HLX-1165	H1165	1733	N BROADWAY	38.070001763	-84.467359359
HLX-1166	H1166	748	DOBBIN RD	38.0096563692	-84.4993153712
HLX-1167	H1167	1618	TATES CREEK RD	38.0184486678	-84.4950394111
HLX-1168	H1168	748	RAINTREE RD	38.0105203259	-84.4974226658

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1169	H1169	627	TATESWOOD DR	38.0133455643	-84.4998874246
HLX-1170	H1170	601	BEECHMONT RD	38.0117776795	-84.5023921172
HLX-1171	H1171	1882	BELLEFONTE DR	38.0099130463	-84.5026297333
HLX-1172	H1172	601	ADCOLOR DR	38.0721965768	-84.4964863563
HLX-1173	H1173	970	W NEW CIRCLE RD	38.0749255337	-84.4991052894
HLX-1174	H1174	483	SANDALWOOD DR	38.0625551038	-84.448071442
HLX-1175	H1175	533	SANDALWOOD DR	38.0629397537	-84.4461431562
HLX-1176	H1176	446	MOSS DR	38.0634900591	-84.4476610952
HLX-1177	H1177	461	ANNISTON DR	38.0645224832	-84.445801676
HLX-1178	H1178	1214	S BROADWAY	38.0362052606	-84.5197459686
HLX-1180	H1180	628	KINGSTON RD	38.0880545678	-84.4511379203
HLX-1181	H1181	2059	GEORGIAN WAY	38.0329572458	-84.5566057617
HLX-1182	H1182	2087	GEORGIAN WAY	38.0309377196	-84.5576998729
HLX-1183	H1183	2099	GEORGIAN WAY	38.030108319	-84.5581984307
HLX-1184	H1184	517	E NEW CIRCLE RD	38.0539117181	-84.4586790741
HLX-1185	H1185	210	OLEANDER DR	38.0278925749	-84.5512072776
HLX-1186	H1186	2133	OLEANDER DR	38.0284314688	-84.5531664269
HLX-1187	H1187	2219	OLEANDER CT	38.0273804475	-84.5526253312
HLX-1188	H1188	2124	GARDEN SPRINGS DR	38.0250479715	-84.5471641905
HLX-1189	H1189	2056	DOGWOOD DR	38.0262067996	-84.5468992225
HLX-1190	H1190	2016	DOGWOOD DR	38.0278667166	-84.5464927196
HLX-1191	H1191	525	WALLER AVE	38.0328118937	-84.5224401778
HLX-1192	H1192	409	WALLER AVE	38.0321268796	-84.5217000011
HLX-1193	H1193	1708	CANTRILL DR	38.0459858103	-84.4460743066
HLX-1194	H1194	1611	CANTRILL DR	38.0479554206	-84.445759916
HLX-1195	H1195	176	W NEW CIRCLE RD	38.0671233835	-84.4724517485
HLX-1196	H1196	1026	MANCHESTER ST	38.0539759139	-84.5121843799
HLX-1197	H1197	651	MAGNOLIA AVE	38.0444349384	-84.4735558732
HLX-1198	H1198	757	NEWTOWN PIKE	38.0678685805	-84.4982307516
HLX-1200	H1200	1059	E NEW CIRCLE RD	38.0372478221	-84.4541465686
HLX-1201	H1201	2024	LARKSPUR DR	38.0274556779	-84.5440400296
HLX-1202	H1202	2028	OLEANDER DR	38.0288931297	-84.54936015
HLX-1203	H1203	210	WINTERBERRY DR	38.0264298786	-84.5507157922
HLX-1204	H1204	491	ANNISTON DR	38.0642349635	-84.4440143061

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1205	H1205	541	GLENBROOK ST	38.0627832126	-84.4435875309
HLX-1206	H1206	1968	BRYNELL DR	38.0615242815	-84.4426958758
HLX-1207	H1207	1998	BRYNELL DR	38.0619157728	-84.4410938733
HLX-1208	H1208	545	ANNISTON DR	38.0633208278	-84.442246171
HLX-1209	H1209	219	MANDALAY RD	38.054766751	-84.5442345139
HLX-1210	H1210	1513	NICHOLASVILLE RD	38.0243239082	-84.512120101
HLX-1211	H1211	913	GEORGETOWN ST	38.072204795	-84.5052370161
HLX-1212	H1212	1601	HAWTHORNE LN	38.0728233129	-84.4748009525
HLX-1213	H1213	2328	ALLEN DR	38.0864229893	-84.4540155673
HLX-1214	H1214	654	ROGERS RD	38.0885245795	-84.4553162506
HLX-1215	H1215	664	MARSHALL LN	38.0887221183	-84.4542771343
HLX-1216	H1216	628	MARSHALL LN	38.0874344266	-84.4533418991
HLX-1217	H1217	587	KINGSTON RD	38.0866769128	-84.4503054309
HLX-1218	H1218	1515	MERCER RD	38.0750671215	-84.5146384839
HLX-1219	H1219	1515	MERCER RD	38.0749396543	-84.5132770304
HLX-1220	H1220	1515	MERCER RD	38.07486	-84.51293
HLX-1221	H1221	417	ROOKWOOD PKY	38.0606149088	-84.4599270586
HLX-1222	H1222	1732	GLENEAGLES DR	38.0600352727	-84.4582484047
HLX-1223	H1223	465	ROOKWOOD PKY	38.0586631325	-84.4581049428
HLX-1224	H1224	1099	S BROADWAY	38.0369102659	-84.5186681484
HLX-1225	H1225	1702	BRYAN STATION RD	38.0611401468	-84.4605784207
HLX-1226	H1226	402	MCKENNA CT	38.0622577495	-84.4570906452
HLX-1227	H1227	413	MCKENNA CT	38.0611842599	-84.4567424797
HLX-1228	H1228	2275	NICHOLASVILLE RD	38.0070018035	-84.5185087666
HLX-1229	H1229	573	NORTHSIDE DR	38.0600552377	-84.4470174918
HLX-1230	H1230	1928	BRYNELL DR	38.0609195699	-84.4452773069
HLX-1231	H1231	641	LOMBARDY DR	38.0595132917	-84.4442418054
HLX-1232	H1232	1906	GREENLEAF DR	38.0583880746	-84.4418900762
HLX-1233	H1233	1601	JENNIFER RD	38.0475700319	-84.4498313135
HLX-1234	H1234	1548	CANTRILL DR	38.0495047119	-84.4472516611
HLX-1235	H1235	3498	TATES CREEK RD	37.9876335464	-84.4940804739
HLX-1236	H1236	2033	GARDEN SPRINGS DR	38.028690094	-84.5424025949
HLX-1237	H1237	2057	GARDEN SPRINGS DR	38.0272633218	-84.543207303
HLX-1238	H1238	2083	GARDEN SPRINGS DR	38.0260353699	-84.5444208829

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1239	H1239	2052	TAMARACK DR	38.0267358615	-84.5457359473
HLX-1240	H1240	2101	GARDEN SPRINGS DR	38.0252223642	-84.5456742591
HLX-1241	H1241	2164	GARDEN SPRINGS DR	38.0255302755	-84.5491422017
HLX-1242	H1242	2033	DUNKIRK DR	38.057781556	-84.5463101136
HLX-1243	H1243	1941	CAMBRIDGE DR	38.0508360801	-84.5454548465
HLX-1244	H1244	2136	AZALEA DR	38.0235369925	-84.5482552456
HLX-1245	H1245	2115	JASMINE DR	38.0244074743	-84.5487539597
HLX-1246	H1246	2133	LARKSPUR DR	38.0246447194	-84.5431624474
HLX-1247	H1247	862	ASTER RD	38.0221586625	-84.5483577937
HLX-1248	H1248	2315	HARRODSBURG RD	38.0229572433	-84.5416325913
HLX-1249	H1249	2184	CYPRESS DR	38.0230764691	-84.5426812002
HLX-1250	H1250	2132	TAMARACK DR	38.02417886	-84.54386585
HLX-1251	H1251	2152	CYPRESS DR	38.0230619755	-84.5445713921
HLX-1252	H1252	210	VIOLET RD	38.0242350305	-84.5459707849
HLX-1253	H1253	2124	VIOLET RD	38.0233756053	-84.5470463207
HLX-1254	H1254	2228	JASMINE DR	38.0252379811	-84.5506456742
HLX-1255	H1255	3401	SPENDTHRIFT CT	37.9895615542	-84.4866563589
HLX-1256	H1256	1102	SPENDTHRIFT RD	37.9903546125	-84.4877355122
HLX-1257	H1257	295	SCOTT ST	38.0405001236	-84.5083084522
HLX-1258	H1258	1114	INDUSTRY RD	38.0471370547	-84.4599860222
HLX-1259	H1259	1157	COMMERCIAL DR	38.0470010242	-84.4575367467
HLX-1260	H1260	366	WALLER AVE	38.0301083041	-84.518551618
HLX-1261	H1261	347	WALLER AVE	38.0297729277	-84.5176628913
HLX-1262	H1262	1601	MARTHA CT	38.0481186807	-84.4490405661
HLX-1263	H1263	1545	MEADE CT	38.0488254007	-84.4512150074
HLX-1264	H1264	255	E NEW CIRCLE RD	38.0612621213	-84.4658276057
HLX-1265	H1265	1507	ANNISTON DR	38.0548948589	-84.4369625419
HLX-1266	H1266	2011	MOBILE CT	38.0562791639	-84.4351200326
HLX-1267	H1267	208	MEMPHIS CT	38.0548391026	-84.4349635497
HLX-1268	H1268	2047	GAINESVILLE CT	38.0540689573	-84.4332605847
HLX-1269	H1269	2063	NEW ORLEANS DR	38.0528705327	-84.4341546177
HLX-1270	H1270	2036	NEW ORLEANS DR	38.0532276639	-84.4321417635
HLX-1271	H1271	1718	NEW ORLEANS CT	38.0519037165	-84.434832861
HLX-1272	H1272	1812	BIMINI RD	38.0122764344	-84.5004006995

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1273	H1273	2044	FALLON RD	38.0337030426	-84.5595105351
HLX-1274	H1274	2072	FALLON RD	38.031952073	-84.560427574
HLX-1275	H1275	2073	WILLIAMSBURG RD	38.03031135	-84.5615759821
HLX-1276	H1276	1053	PINE BLOOM DR	38.0274547148	-84.5594024445
HLX-1277	H1277	1850	MERCER RD	38.0783673094	-84.5332413636
HLX-1278	H1278	1952	MERCER RD	38.0785475836	-84.5336739302
HLX-1279	H1279	2339	VERSAILLES RD	38.0467557542	-84.5543395054
HLX-1281	H1281	531	ROGERS RD	38.0849067104	-84.4526068949
HLX-1282	H1282	1821	WAYLAND DR	38.0620149035	-84.4524810849
HLX-1283	H1283	311	HOLIDAY RD	38.0291701805	-84.4700106405
HLX-1284	H1284	1816	CANTRILL DR	38.0447594598	-84.4439448745
HLX-1285	H1285	1616	JENNIFER RD	38.0463833597	-84.4492501053
HLX-1286	H1286	1704	JENNIFER RD	38.0451418744	-84.449307187
HLX-1287	H1287	212	BARROW RD	38.0255500193	-84.4781990906
HLX-1288	H1288	1336	COOPER DR	38.0148928566	-84.4802006188
HLX-1289	H1289	731	COOPER DR	38.0232073782	-84.4960084534
HLX-1290	H1290	705	COOPER DR	38.0236504783	-84.4970026279
HLX-1291	H1291	1246	KASTLE RD	38.0225010351	-84.4978855174
HLX-1292	H1292	1280	KASTLE RD	38.0211011927	-84.4983191126
HLX-1293	H1293	1251	SUMMIT DR	38.0209470354	-84.4972064763
HLX-1294	H1294	760	MONTCLAIR DR	38.0204335156	-84.4958856942
HLX-1295	H1295	150	TATES CREEK RD	38.0217040947	-84.4930466154
HLX-1296	H1296	2144	JASMINE DR	38.0235129103	-84.5497350871
HLX-1297	H1297	2125	WINTERBERRY DR	38.0253950554	-84.551705274
HLX-1298	H1298	2125	TALISMAN RD	38.0245415979	-84.5500573541
HLX-1299	H1299	2192	JASMINE DR	38.0241806923	-84.5512970525
HLX-1300	H1300	200	EASTOVER DR	38.0212257801	-84.4916653982
HLX-1301	H1301	1169	INDIAN MOUND RD	38.0180576023	-84.4891355258
HLX-1302	H1302	636	MONTCLAIR DR	38.0215465121	-84.4997899332
HLX-1303	H1303	482	SHAFTSBURY RD	38.0566589761	-84.460204382
HLX-1304	H1304	815	NEWTOWN PIKE	38.0702802977	-84.497170868
HLX-1305	H1305	462	ERIE RD	38.0722696445	-84.5137387169
HLX-1306	H1306	962	ST MARTINS AVE	38.0709829756	-84.5132445222
HLX-1307	H1307	973	WAVERLY DR	38.0722623562	-84.5121007926

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1308	H1308	767	COOPER DR	38.022250142	-84.4946260513
HLX-1309	H1309	1388	FONTAINE RD	38.024922557	-84.4813240474
HLX-1310	H1310	401	DUDLEY RD	38.022521188	-84.48163926
HLX-1311	H1311	101	LAKWOOD DR	38.0188495838	-84.4930786026
HLX-1312	H1312	350	ANDOVER DR	38.0189221882	-84.4836309426
HLX-1313	H1313	426	ANDOVER DR	38.0162202149	-84.4851209288
HLX-1314	H1314	1395	LAKWOOD DR	38.0152240632	-84.4842486027
HLX-1315	H1315	1501	LAKWOOD DR	38.0134384173	-84.4802587892
HLX-1316	H1316	1316	COOPER DR	38.0156776754	-84.4818926558
HLX-1317	H1317	592	E NEW CIRCLE RD	38.0515506527	-84.457093915
HLX-1318	H1318	666	TATESWOOD DR	38.0119734727	-84.4980435669
HLX-1319	H1319	1687	N BROADWAY	38.0690596258	-84.4705464766
HLX-1320	H1320	1709	N BROADWAY	38.0694167197	-84.4695815045
HLX-1321	H1321	2412	LA ROCHELLE RD	38.0505477978	-84.5561665062
HLX-1322	H1322	2401	REIMS RD	38.053248307	-84.5555293446
HLX-1323	H1323	1282	BORDEAUX DR	38.0514709729	-84.555268234
HLX-1324	H1324	2437	REIMS RD	38.0536325496	-84.5578452814
HLX-1325	H1325	1968	GREENLEAF DR	38.0605270583	-84.4418331948
HLX-1326	H1326	1566	TATES CREEK RD	38.0196155229	-84.4944912304
HLX-1327	H1327	1167	LAKWOOD DR	38.0173226278	-84.4902500647
HLX-1328	H1328	1078	LAKWOOD DR	38.018163689	-84.4918742502
HLX-1329	H1329	2160	PALMS DR	38.026124566	-84.5524544572
HLX-1330	H1330	2129	PALMS DR	38.0270584029	-84.5537826667
HLX-1331	H1331	2251	WINTERBERRY DR	38.0282350756	-84.5541946224
HLX-1332	H1332	2207	WINTERBERRY DR	38.026714124	-84.5546332823
HLX-1333	H1333	210	LANSILL RD	38.0297345251	-84.554529031
HLX-1334	H1334	1926	KINGTREE CT	38.0583216921	-84.4433038331
HLX-1335	H1335	1963	KINGTREE DR	38.0596763697	-84.4416148979
HLX-1336	H1336	635	ROSEWOOD DR	38.058977095	-84.439817219
HLX-1337	H1337	630	ANNISTON DR	38.0607670001	-84.4400141396
HLX-1338	H1338	676	ANNISTON DR	38.0593878952	-84.4388093533
HLX-1339	H1339	437	ROOKWOOD PKY	38.0596097118	-84.4590355849
HLX-1340	H1340	1665	MARGATE DR	38.0576571589	-84.4597016488
HLX-1341	H1341	499	WANSTEAD WAY	38.0566226955	-84.4587147704

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1342	H1342	1730	RUSSELL CAVE RD	38.080153223	-84.4700302345
HLX-1343	H1343	616	LIN WAL RD	38.07916881	-84.4692468281
HLX-1344	H1344	1711	LEITH CT	38.0781967203	-84.4688444628
HLX-1345	H1345	568	LIN WAL RD	38.077564564	-84.4670820536
HLX-1346	H1346	1197	OAKWOOD DR	38.0825104792	-84.508893966
HLX-1347	H1347	1163	OAKWOOD DR	38.0828872916	-84.5071750182
HLX-1348	H1348	821	CEDARWOOD DR	38.0841605443	-84.5067131062
HLX-1349	H1349	50	BRYANWOOD PKY	38.0611549059	-84.4536934063
HLX-1350	H1350	1801	COURTLAND DR	38.0549801252	-84.4452474837
HLX-1351	H1351	1641	ASHWOOD RD	38.0259386983	-84.4762509439
HLX-1352	H1352	210	CHENAULT RD	38.0259782747	-84.4855749086
HLX-1353	H1353	851	PINKNEY DR	38.0433611634	-84.5317380752
HLX-1354	H1354	1497	PINE MEADOW RD	38.0438284916	-84.5353051774
HLX-1355	H1355	1461	PINE MEADOW RD	38.0442976372	-84.5334669351
HLX-1356	H1356	827	SUMMERVILLE DR	38.042372031	-84.5302590278
HLX-1357	H1357	801	SUMMERVILLE DR	38.0438652597	-84.5299135932
HLX-1358	H1358	865	SUMMERVILLE DR	38.0424875286	-84.5319571779
HLX-1360	H1360	1795	FRANKFORT PIKE	38.0614205082	-84.5408765728
HLX-1361	H1361	0	OLD FRANKFORT PIKE	38.0611503403	-84.5400599431
HLX-1362	H1362	2479	HEATHER WAY	37.9990382695	-84.5103520278
HLX-1363	H1363	3328	BELLEFONTE DR	37.9987945478	-84.5089580797
HLX-1364	H1364	301	MELBOURNE WAY	38.0017051197	-84.5086099618
HLX-1365	H1365	2355	HEATHER WAY	38.0032464923	-84.5149812962
HLX-1366	H1366	2398	RANDOLPH CT	38.0025249609	-84.5139500599
HLX-1367	H1367	2423	HEATHER WAY	38.0003638089	-84.5132679817
HLX-1368	H1368	2443	HEATHER WAY	37.9997702284	-84.5119883451
HLX-1369	H1369	3301	BELLEFONTE DR	38.0005066467	-84.5094314137
HLX-1370	H1370	338	CURTIN DR	38.0012214229	-84.5112566197
HLX-1371	H1371	261	MELBOURNE WAY	38.0024480429	-84.5113893862
HLX-1372	H1372	2432	LARKIN RD	38.0017618438	-84.5129886793
HLX-1373	H1373	2398	HEATHER WAY	38.0012848148	-84.5145855937
HLX-1374	H1374	313	MELBOURNE WAY	38.0012501136	-84.5076893207
HLX-1375	H1375	329	MELBOURNE WAY	38.0009510344	-84.5062061088
HLX-1376	H1376	3304	NANTUCKET DR	37.9991100199	-84.5075708509

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1377	H1377	1580	ALEXANDRIA DR	38.0446250272	-84.5517976585
HLX-1378	H1378	2120	LANSILL RD	38.0289068034	-84.5549380124
HLX-1379	H1379	2160	LANSILL RD	38.0273945334	-84.5556866819
HLX-1380	H1380	996	PINE BLOOM DR	38.0259445851	-84.556979274
HLX-1381	H1381	2135	GEORGIAN WAY	38.0282208364	-84.559500227
HLX-1382	H1382	2115	GEORGIAN WAY	38.0291021284	-84.5587762944
HLX-1383	H1383	1743	ALEXANDRIA DR	38.0393766214	-84.5525730277
HLX-1384	H1384	1527	PARKERS MILL RD	38.0456786953	-84.5540937039
HLX-1385	H1385	1837	COURTLAND DR	38.0557372458	-84.4436968478
HLX-1386	H1386	397	HERMITAGE DR	38.0653538959	-84.4494314653
HLX-1387	H1387	344	HERMITAGE DR	38.0671039444	-84.4513390028
HLX-1388	H1388	1877	WICKLAND DR	38.0669424495	-84.4528189413
HLX-1389	H1389	1926	WICKLAND DR	38.0683104522	-84.4508480133
HLX-1390	H1390	1932	SPRING STATION DR	38.068048923	-84.4497308073
HLX-1391	H1391	1974	SPRING STATION DR	38.0680990264	-84.4485328338
HLX-1392	H1392	2057	SPRING STATION DR	38.066397826	-84.447855867
HLX-1393	H1393	1913	GLENGARRY WAY	38.0669639417	-84.4497170137
HLX-1394	H1394	540	LIN WAL RD	38.0765468324	-84.4659299094
HLX-1395	H1395	525	LIN WAL RD	38.0758906768	-84.4648578241
HLX-1396	H1396	1773	BREWER DR	38.0766297087	-84.4632380772
HLX-1397	H1397	542	RADCLIFFE RD	38.0772452674	-84.4644460309
HLX-1398	H1398	570	RADCLIFFE RD	38.0780274898	-84.4661191827
HLX-1399	H1399	606	RADCLIFFE RD	38.079270434	-84.4676948825
HLX-1400	H1400	2028	REBEL RD	38.0104151093	-84.519348076
HLX-1401	H1401	887	LANE ALLEN RD	38.0303765402	-84.5426683336
HLX-1402	H1402	897	LANE ALLEN RD	38.0305291386	-84.5440000689
HLX-1403	H1403	913	LANE ALLEN RD	38.0307877783	-84.5455390267
HLX-1404	H1404	1103	ATHENIA DR	38.0334186892	-84.5580403245
HLX-1405	H1405	2055	NASSAU RD	38.0319969119	-84.5588188692
HLX-1406	H1406	2078	NASSAU RD	38.0304802981	-84.559642548
HLX-1407	H1407	2091	WILLIAMSBURG RD	38.0290868995	-84.5606732102
HLX-1408	H1408	1127	GAINESWAY DR	37.9901970602	-84.4840931052
HLX-1409	H1409	1108	GAINESWAY DR	37.9906102095	-84.4862684268
HLX-1410	H1410	3328	HIGH HOPE RD	37.989965	-84.4779201988

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1411	H1411	3301	CROWN CREST RD	37.9912474077	-84.4786507105
HLX-1412	H1412	3303	SUTHERLAND DR	37.9913920749	-84.4773890716
HLX-1413	H1413	3325	CROWN CREST RD	37.9901394373	-84.4791267916
HLX-1414	H1414	3357	SUTHERLAND DR	37.9910500752	-84.4801829705
HLX-1415	H1415	3392	SUTHERLAND DR	37.9892516298	-84.4808639079
HLX-1416	H1416	3360	HIGH HOPE RD	37.9885369847	-84.4786540963
HLX-1417	H1417	1786	BRYAN STATION RD	38.0632956256	-84.454411745
HLX-1418	H1418	1950	AUGUSTA DR	38.0568129642	-84.4364568183
HLX-1419	H1419	1497	ANNISTON DR	38.0559083613	-84.4377293259
HLX-1420	H1420	1703	RALEIGH RD	38.05507617	-84.4431308903
HLX-1421	H1421	1507	DURHAM CT	38.0518708565	-84.4435979963
HLX-1422	H1422	471	STONEHAVEN DR	38.05747	-84.45827
HLX-1423	H1423	1697	HARROGATE RD	38.0565647506	-84.4568663673
HLX-1424	H1424	531	SHAFTSBURY RD	38.0551880847	-84.4583943351
HLX-1425	H1425	1665	HARROGATE RD	38.0547204314	-84.4569309849
HLX-1426	H1426	1641	HARROGATE RD	38.0536545599	-84.4560768218
HLX-1427	H1427	1601	HARROGATE RD	38.0523032455	-84.4546482957
HLX-1428	H1428	1713	JENNIFER RD	38.0442296721	-84.4487192684
HLX-1429	H1429	1850	EASTLAND PKY	38.0532335039	-84.4393027548
HLX-1430	H1430	1940	EASTLAND PKY	38.0537360291	-84.437978241
HLX-1431	H1431	723	TERRACE VIEW DR	38.0466382591	-84.535689226
HLX-1432	H1432	1081	INDUSTRY RD	38.0460735743	-84.4605323668
HLX-1433	H1433	438	LIMA DR	38.073742954	-84.5113272722
HLX-1434	H1434	486	LIMA DR	38.07369	-84.51013
HLX-1435	H1435	695	LACO DR	38.0629601084	-84.543497563
HLX-1436	H1436	641	LACO DR	38.0632963082	-84.5421402428
HLX-1437	H1437	656	BIZZELL DR	38.0642691334	-84.5415557378
HLX-1438	H1438	1114	OAKWOOD DR	38.0836088185	-84.5043857043
HLX-1439	H1439	1074	OAKWOOD DR	38.08497	-84.50414
HLX-1440	H1440	462	DOMINICAN DR	38.071331805	-84.5125245611
HLX-1441	H1441	1484	ETAWAH DR	38.0554037049	-84.4397548589
HLX-1442	H1442	1842	DALTON CT	38.0564159765	-84.4402456283
HLX-1443	H1443	1850	MARIETTA DR	38.0571052132	-84.4405971867
HLX-1444	H1444	1884	MARIETTA DR	38.0577963589	-84.4394434678

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1445	H1445	1436	ANNISTON DR	38.0583558132	-84.4380110232
HLX-1446	H1446	1469	ANNISTON DR	38.0570714693	-84.4383364253
HLX-1447	H1447	1457	HUNTSVILLE DR	38.0578930274	-84.4364031152
HLX-1448	H1448	857	SPARTA CT	38.0487018089	-84.5226572916
HLX-1449	H1449	1534	N LIMESTONE	38.0644195069	-84.4711824461
HLX-1450	H1450	1549	N LIMESTONE	38.065275432	-84.4703597536
HLX-1451	H1451	1236	CHERBOURG RD	38.0522848777	-84.5571679274
HLX-1452	H1452	1229	NICE DR	38.0522251984	-84.5587188849
HLX-1453	H1453	1281	NICE DR	38.0510683905	-84.5576593957
HLX-1454	H1454	588	E NEW CIRCLE RD	38.0523035956	-84.4576668201
HLX-1455	H1455	821	E LOUDON AVE	38.0450883971	-84.4665088539
HLX-1456	H1456	1050	EASTLAND DR	38.0453335779	-84.4640899459
HLX-1457	H1457	881	FLOYD DR	38.0481410931	-84.4650795669
HLX-1458	H1458	641	S LIMESTONE	38.0368083963	-84.507551918
HLX-1459	H1459	945	MURRAY DR	38.0436100528	-84.4567455879
HLX-1460	H1460	931	MURRAY DR	38.0444144265	-84.4564667876
HLX-1461	H1461	1424	AUDUBON AVE	38.0264142811	-84.5125000479
HLX-1462	H1462	480	HART RD	38.02398	-84.48426
HLX-1463	H1463	194	LOUISIANA AVE	38.0226998844	-84.4843682439
HLX-1464	H1464	1898	GAYLE DR	38.0483327449	-84.4419858267
HLX-1465	H1465	180	GAYLE DR	38.04881901	-84.440963331
HLX-1466	H1466	1840	GAYLE DR	38.0478721927	-84.439606106
HLX-1467	H1467	421	COCHRAN RD	38.0225581493	-84.4861229195
HLX-1468	H1468	401	COCHRAN RD	38.0233852074	-84.4876376453
HLX-1469	H1469	310	COCHRAN RD	38.0250864282	-84.4878156465
HLX-1470	H1470	422	HART RD	38.0248967443	-84.48562352
HLX-1471	H1471	210	W NEW CIRCLE RD	38.06843195	-84.4738926696
HLX-1472	H1472	389	WALLER AVE	38.0307527026	-84.5198433136
HLX-1473	H1473	1135	VERSAILLES RD	38.0498146631	-84.5175568713
HLX-1474	H1474	1230	MAN O WAR PL	38.0332333155	-84.5184802468
HLX-1475	H1475	405	WALLER AVE	38.0317790888	-84.5212517094
HLX-1476	H1476	1337	ROYALTY CT	38.0314905751	-84.518588501
HLX-1477	H1477	1502	BEACON HILL RD	38.0425680099	-84.5343388084
HLX-1478	H1478	1335	S BROADWAY	38.0340462719	-84.5231898282

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1479	H1479	1313	FRANKFORT PIKE	38.057747579	-84.5253593917
HLX-1480	H1480	1949	N BROADWAY	38.0742393925	-84.4592901414
HLX-1481	H1481	1971	N BROADWAY	38.0750495275	-84.4580963424
HLX-1482	H1482	1230	EASTLAND DR	38.0460227909	-84.4590609057
HLX-1483	H1483	1019	INDUSTRY RD	38.0443649493	-84.460361765
HLX-1484	H1484	1149	KEES RD	38.0655675985	-84.4823595444
HLX-1485	H1485	1398	JINGLE BELL LN	38.0385196017	-84.4524350903
HLX-1486	H1486	474	W 6TH ST	38.0588063913	-84.49182766
HLX-1487	H1487	1236	VERSAILLES RD	38.0498938764	-84.5202058979
HLX-1488	H1488	30	W NEW CIRCLE RD	38.0703447154	-84.4763075863
HLX-1489	H1489	2020	HART RD	38.0160861701	-84.476360171
HLX-1490	H1490	2017	BLAIRMORE RD	38.0156310862	-84.4752299152
HLX-1491	H1491	1973	BLAIRMORE RD	38.0165978824	-84.4741715515
HLX-1492	H1492	2101	HART CT	38.01491411	-84.4772745697
HLX-1493	H1493	202	WOODSPOINT RD	38.0268903888	-84.4807501839
HLX-1494	H1494	305	SYCAMORE RD	38.0277868022	-84.4838060809
HLX-1495	H1495	329	SYCAMORE RD	38.0271557389	-84.4846089528
HLX-1496	H1496	2469	EASTWAY DR	38.0096927934	-84.5266729083
HLX-1497	H1497	2225	EASTWAY DR	38.0136085176	-84.5251724972
HLX-1498	H1498	398	SHERIDAN DR	38.0169403595	-84.5286447795
HLX-1499	H1499	493	BARKLEY DR	38.0167187209	-84.5318684207
HLX-1500	H1500	301	SOUTHLAND DR	38.0158067053	-84.5236221218
HLX-1501	H1501	373	SOUTHLAND DR	38.0172567168	-84.52534316
HLX-1502	H1502	398	SOUTHLAND DR	38.0181786357	-84.5267970069
HLX-1503	H1503	1678	ALEXANDRIA DR	38.0404689374	-84.551973183
HLX-1504	H1504	1601	MAYWICK VIEW LN	38.0438348439	-84.5506227214
HLX-1505	H1505	347	MANHATTAN DR	38.06387	-84.46036
HLX-1506	H1506	248	CHENAULT RD	38.0245373846	-84.4830929739
HLX-1507	H1507	213	CATALPA RD	38.0273114604	-84.4824712158
HLX-1508	H1508	439	RIDGEWAY RD	38.0214658245	-84.4836387005
HLX-1509	H1509	345	RIDGEWAY RD	38.0231015726	-84.4827118475
HLX-1510	H1510	202	RIDGEWAY RD	38.0260086788	-84.4798078754
HLX-1511	H1511	1411	FONTAINE RD	38.0241340073	-84.4803584402
HLX-1512	H1512	420	CHINOE RD	38.0203031246	-84.4813759143

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1513	H1513	436	DUDLEY RD	38.0209436761	-84.4825939077
HLX-1514	H1514	539	CHINOE RD	38.0172237691	-84.4832790366
HLX-1515	H1515	135	CHENAULT RD	38.0271703484	-84.4877854532
HLX-1516	H1516	209	COCHRAN RD	38.026612386	-84.4881762787
HLX-1517	H1517	446	CULPEPPER RD	38.0196209276	-84.480193391
HLX-1518	H1518	331	CHINOE RD	38.0221039739	-84.4803339782
HLX-1519	H1519	529	CULPEPPER RD	38.0182836523	-84.4809454435
HLX-1520	H1520	1204	INDIAN MOUND RD	38.0173789222	-84.4873591092
HLX-1521	H1521	1305	PRATHER RD	38.0168298846	-84.481443094
HLX-1522	H1522	1439	LAKWOOD DR	38.0144552409	-84.4821701311
HLX-1523	H1523	1360	COOPER DR	38.0134616407	-84.4784744844
HLX-1524	H1524	1853	BLAIRMORE CT	38.0126069606	-84.4754954904
HLX-1525	H1525	1872	BLAIRMORE RD	38.0137207575	-84.4746603824
HLX-1526	H1526	1948	BLAIRMORE RD	38.0176548347	-84.4727979637
HLX-1527	H1527	179	LAKESHORE DR	38.0189086003	-84.4695202313
HLX-1528	H1528	337	LAKESHORE DR	38.0152002692	-84.4724028631
HLX-1529	H1529	417	LAKESHORE DR	38.0132565586	-84.4732776371
HLX-1530	H1530	1203	LAKWOOD DR	38.0164586975	-84.4880400286
HLX-1531	H1531	245	CASSIDY AVE	38.0243156797	-84.4890971642
HLX-1532	H1532	1051	COOPER DR	38.0203504383	-84.4907792883
HLX-1533	H1533	1229	PROVIDENCE LN	38.0201113393	-84.4837769314
HLX-1534	H1534	131	EASTOVER DR	38.0228723664	-84.4906392841
HLX-1535	H1535	104	COCHRAN RD	38.0274950398	-84.489906063
HLX-1536	H1536	325	CULPEPPER RD	38.0214702715	-84.4789376684
HLX-1537	H1537	523	CHINOE RD	38.0182277463	-84.4825610123
HLX-1538	H1538	241	WOODSPOINT RD	38.0258753935	-84.4826538047
HLX-1539	H1539	203	SYCAMORE RD	38.028902025	-84.4820860541
HLX-1540	H1540	1225	COOPER DR	38.0177095699	-84.4855633616
HLX-1542	H1542	2117	FONTAINE RD	38.01774861	-84.4674090664
HLX-1543	H1543	2232	DINSMORE DR	38.016622354	-84.4661274625
HLX-1544	H1544	241	FONTAINE CIR	38.019561952	-84.4712331802
HLX-1545	H1545	2031	FONTAINE RD	38.0184329645	-84.4715115313
HLX-1546	H1546	2057	FONTAINE RD	38.0177458726	-84.4701722654
HLX-1547	H1547	313	LAKESHORE DR	38.0164233622	-84.4710308625

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1548	H1548	1917	BLAIRMORE RD	38.0164216	-84.4726020546
HLX-1549	H1549	1897	BLAIRMORE RD	38.0153988049	-84.4737816773
HLX-1550	H1550	204	HART RD	38.0171108296	-84.4752059247
HLX-1551	H1551	2036	BLAIRMORE RD	38.0143661006	-84.4759369028
HLX-1552	H1552	2122	HART CT	38.0136446029	-84.4768479166
HLX-1553	H1553	2137	SAGE RD	38.022549992	-84.5466503658
HLX-1554	H1554	1536	ALEXANDRIA DR	38.0457761742	-84.5520007676
HLX-1555	H1555	412	BRYANWOOD PKY	38.06229	-84.45542
HLX-1556	H1556	532	BRYANWOOD PKY	38.0598392274	-84.4523488008
HLX-1557	H1557	1624	ALEXANDRIA DR	38.0427969974	-84.5517861421
HLX-1558	H1558	1666	ALEXANDRIA DR	38.0415726862	-84.5518508037
HLX-1559	H1559	1401	CANTRILL CT	38.0487661282	-84.4481297651
HLX-1560	H1560	1548	EASTLAND PKY	38.0459108155	-84.4528420163
HLX-1561	H1561	1742	RALEIGH RD	38.053953231	-84.4447643222
HLX-1562	H1562	1778	RALEIGH RD	38.0529916671	-84.4462684927
HLX-1563	H1563	691	KENNEDY RD	38.072889	-84.49908516
HLX-1564	H1564	2409	WANDA WAY	38.0877826848	-84.4497883902
HLX-1565	H1565	189	ELMWOOD DR	38.088257617	-84.4483598713
HLX-1566	H1566	80	CONTRACT ST	38.0477772633	-84.4686038823
HLX-1567	H1567	832	CONTRACT ST	38.048515765	-84.4677341227
HLX-1568	H1568	572	BELLCASTLE RD	38.05866	-84.45099
HLX-1569	H1569	593	BELLCASTLE RD	38.0574829487	-84.4496778085
HLX-1570	H1570	655	HI CREST DR	38.0568453509	-84.4471353589
HLX-1571	H1571	1723	HARROGATE RD	38.0581160424	-84.4568981595
HLX-1572	H1572	580	SHAFTSBURY RD	38.0551472544	-84.4554699954
HLX-1573	H1573	677	DARTMOOR CT	38.0526091748	-84.453733208
HLX-1574	H1574	632	DARTMOOR DR	38.0537146731	-84.4547224049
HLX-1575	H1575	1603	FAIRWAY DR	38.0288743853	-84.4754360138
HLX-1576	H1576	1605	BON-AIR DR	38.0303202288	-84.4735885764
HLX-1577	H1577	341	KINGSWAY DR	38.0307549513	-84.4714393831
HLX-1578	H1578	225	KINGSWAY DR	38.0289671945	-84.4739305416
HLX-1579	H1579	231	QUEENSWAY DR	38.0282512127	-84.4731430308
HLX-1580	H1580	1815	BARWICK DR	38.0436198695	-84.4456315872
HLX-1581	H1581	1831	BARWICK DR	38.0448256955	-84.4468237153

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1582	H1582	1833	CANTRILL DR	38.0463630082	-84.4449644668
HLX-1583	H1583	1801	JOAN DR	38.0470138081	-84.4436566123
HLX-1584	H1584	1820	JOAN DR	38.0458796641	-84.4425494468
HLX-1585	H1585	1817	DALNA DR	38.0466285241	-84.4419538925
HLX-1586	H1586	1506	FORT SUMTER CT	38.0514777107	-84.4460181673
HLX-1587	H1587	1521	CONTINENTAL SQ	38.0478676341	-84.452120255
HLX-1588	H1588	1372	LAKEWOOD DR	38.0153675698	-84.4858234562
HLX-1589	H1589	317	MANHATTAN DR	38.0652752835	-84.4616161527
HLX-1591	H1591	1222	BRYAN AVE	38.0581247311	-84.4714189572
HLX-1592	H1592	1638	MAYWICK VIEW LN	38.0418533354	-84.5506203561
HLX-1593	H1593	1691	TRAVELLER RD	38.0409700645	-84.5538434332
HLX-1594	H1594	2401	NICHOLASVILLE RD	38.0034550871	-84.5196114135
HLX-1595	H1595	201	GARDEN SPRINGS DR	38.0301237834	-84.5415982452
HLX-1596	H1596	3255	SUTHERLAND DR	37.9917998164	-84.4746745425
HLX-1597	H1597	3311	COLDSTREAM DR	37.9908356532	-84.476509285
HLX-1598	H1598	3267	FOXTALE CT	37.9897885381	-84.4759392276
HLX-1599	H1599	3351	COLDSTREAM DR	37.9891813346	-84.4773101421
HLX-1600	H1600	1271	GAINESWAY DR	37.9880989858	-84.4778367659
HLX-1601	H1601	3413	CRIMSON KING CT	37.9868477796	-84.4771215758
HLX-1602	H1602	105	CRAMER AVE	38.0354847491	-84.4773405464
HLX-1603	H1603	802	GLENDOVER RD	38.0083418597	-84.4987556372
HLX-1604	H1604	857	GLENDOVER RD	38.0081029755	-84.4965666028
HLX-1605	H1605	3453	FLINTRIDGE DR	37.9908161833	-84.5153208612
HLX-1606	H1606	869	E HIGH ST	38.0283894348	-84.4904425548
HLX-1607	H1607	1505	CONTINENTAL SQ	38.0469312979	-84.4509065089
HLX-1608	H1608	2464	WANDA CT	38.0885891268	-84.4464456387
HLX-1609	H1609	2175	STEPHENS LN	38.0260272286	-84.5554988334
HLX-1610	H1610	2148	ALEXANDRIA DR	38.0249810853	-84.5535765653
HLX-1611	H1611	952	PINE BLOOM DR	38.0246452608	-84.5553609429
HLX-1612	H1612	2209	ALEXANDRIA DR	38.024384727	-84.5542267857
HLX-1613	H1613	2247	ALEXANDRIA DR	38.0228051265	-84.5532425645
HLX-1614	H1614	2224	MARKHAM CT	38.021891985	-84.5520278491
HLX-1615	H1615	2228	AZALEA DR	38.0208996987	-84.5516797537
HLX-1616	H1616	2177	AZALEA DR	38.0222443964	-84.5498145907

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1617	H1617	917	LILY DR	38.0229562327	-84.5509213106
HLX-1618	H1618	949	LILY DR	38.0240608144	-84.5524647295
HLX-1619	H1619	626	BISHOP DR	38.0808664444	-84.4684992843
HLX-1620	H1620	1811	LINTON RD	38.0798884482	-84.4671378731
HLX-1621	H1621	568	BISHOP DR	38.0786665846	-84.4651872174
HLX-1622	H1622	338	COCHRAN RD	38.0243556476	-84.4875211625
HLX-1623	H1623	144	LOUISIANA AVE	38.0236720886	-84.4856510183
HLX-1624	H1624	301	DUKE RD	38.0215700861	-84.4870225095
HLX-1625	H1625	1182	KELSEY DR	38.0558873815	-84.5551275336
HLX-1626	H1626	1182	CAYWOOD DR	38.0553399651	-84.5529709777
HLX-1627	H1627	1206	ALEXANDRIA DR	38.0545324152	-84.5542142389
HLX-1628	H1628	1192	DEVONPORT CIR	38.053923391	-84.555438012
HLX-1629	H1629	1236	DEVONPORT DR	38.0532202139	-84.5539997733
HLX-1630	H1630	2085	CAMBRIDGE DR	38.0533078447	-84.5525333051
HLX-1631	H1631	1272	DEVONPORT DR	38.0517831087	-84.5538458578
HLX-1632	H1632	1263	ALEXANDRIA DR	38.052041587	-84.5526791834
HLX-1633	H1633	130	DEVONPORT DR	38.0505253968	-84.5544324154
HLX-1634	H1634	1290	ALEXANDRIA DR	38.0508834908	-84.5525479781
HLX-1635	H1635	3045	TATES CREEK RD	38.0034576481	-84.4955751133
HLX-1636	H1636	904	ALBANY RD	38.0030607138	-84.494594869
HLX-1637	H1637	3121	MONTAVESTA RD	38.0018772201	-84.4943361713
HLX-1638	H1638	648	EDEN RD	38.0857726339	-84.4604180131
HLX-1639	H1639	684	EDEN RD	38.0853664228	-84.4614427851
HLX-1640	H1640	220	PIERSON DR	38.0863024695	-84.4621736068
HLX-1641	H1641	720	EDEN CT	38.0870621069	-84.4631236147
HLX-1642	H1642	756	EDEN CT	38.0881548008	-84.4643743687
HLX-1643	H1643	2229	PIERSON DR	38.0872160479	-84.4608801594
HLX-1644	H1644	620	EDEN RD	38.0866491055	-84.4596581677
HLX-1645	H1645	663	BURGESS AVE	38.0827025699	-84.4689161646
HLX-1646	H1646	653	BISHOP DR	38.0818168737	-84.4684021818
HLX-1647	H1647	1823	LINTON RD	38.0805210496	-84.4664413904
HLX-1648	H1648	628	WALDO WAY	38.081778451	-84.4671202769
HLX-1649	H1649	635	CHARLBURY RD	38.083040675	-84.4666211451
HLX-1650	H1650	686	BISHOP DR	38.0831157138	-84.4677064528

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1651	H1651	639	WELLS CT	38.08401707	-84.4663427428
HLX-1652	H1652	726	BISHOP DR	38.0846950696	-84.4670443262
HLX-1653	H1653	634	HYDEN CT	38.0846026633	-84.4655257403
HLX-1654	H1654	204	RADCLIFFE RD	38.0860874756	-84.4671125721
HLX-1655	H1655	801	FOXCROFT CT	38.0860365835	-84.466530824
HLX-1656	H1656	820	FOXCROFT CT	38.0871344739	-84.4664302549
HLX-1657	H1657	813	WHEATCROFT CT	38.0862412759	-84.46528181
HLX-1658	H1658	805	FARRA CT	38.0853211125	-84.4645478271
HLX-1659	H1659	1913	RADCLIFFE CT	38.0843780151	-84.4637171002
HLX-1660	H1660	1911	LINTON RD	38.0837126558	-84.4630686082
HLX-1661	H1661	1881	LINTON RD	38.082800609	-84.4641069385
HLX-1662	H1662	1876	CHARLBURY CT	38.0827375959	-84.4654395524
HLX-1663	H1663	1862	LINTON RD	38.081914518	-84.4650718926
HLX-1664	H1664	610	BENTON CT	38.0814362834	-84.465903084
HLX-1665	H1665	2234	RICHMOND RD	38.0167425519	-84.4634486539
HLX-1666	H1666	2108	EASTWAY DR	38.0151477976	-84.5243615026
HLX-1667	H1667	330	SHERIDAN DR	38.0148620657	-84.5261273776
HLX-1668	H1668	123	12TH ST	38.0616854475	-84.4789265005
HLX-1669	H1669	344	CASSIDY AVE	38.0212837027	-84.4900065647
HLX-1670	H1670	801	LANE ALLEN RD	38.0287635122	-84.5383002971
HLX-1671	H1671	370	CAMELOT DR	37.9792839826	-84.5097061212
HLX-1672	H1672	3648	KING ARTHUR DR	37.9804326994	-84.5110340234
HLX-1673	H1673	3605	KING ARTHUR DR	37.9813198439	-84.5129304406
HLX-1674	H1674	399	GAWAINE DR	37.980437738	-84.5091125648
HLX-1675	H1675	366	GAWAINE DR	37.9811717142	-84.5106092496
HLX-1676	H1676	3568	GALAHAD DR	37.981494187	-84.5117004799
HLX-1677	H1677	1709	LINDY CT	38.0368013054	-84.4610443481
HLX-1678	H1678	1960	NEWTOWN PIKE	38.0976813317	-84.4854948139
HLX-1679	H1679	1950	NEWTOWN PIKE	38.096916094	-84.4857238178
HLX-1680	H1680	2892	RUNNYMEDE WAY	38.004744205	-84.5344265083
HLX-1681	H1681	20	WILTON AVE	38.0590989648	-84.5189515677
HLX-1682	H1682	138	CLYDE ST	38.0595319668	-84.5200277243
HLX-1683	H1683	272	W NEW CIRCLE RD	38.069873666	-84.4755634578
HLX-1686	H1686	40	LONGVIEW DR	38.0178049615	-84.5278337077

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1687	H1687	341	SOUTHLAND DR	38.0164500229	-84.5244019107
HLX-1688	H1688	361	SOUTHLAND DR	38.0168830322	-84.5249036323
HLX-1689	H1689	399	STRATFORD DR	38.0162639827	-84.5293482071
HLX-1690	H1690	437	BARKLEY DR	38.0153759954	-84.5311761466
HLX-1691	H1691	362	SHERIDAN DR	38.0157450832	-84.5272285109
HLX-1692	H1692	988	E NEW CIRCLE RD	38.039034293	-84.4542500959
HLX-1693	H1693	755	LANE ALLEN RD	38.0278002434	-84.5364370214
HLX-1694	H1694	951	LANE ALLEN RD	38.0315164526	-84.5479318737
HLX-1695	H1695	2343	HARRODSBURG RD	38.0217972371	-84.5428835178
HLX-1696	H1696	1163	FLOYD DR	38.0509488056	-84.4583948292
HLX-1697	H1697	1208	N BROADWAY	38.0634476059	-84.4792602022
HLX-1698	H1698	140	N BROADWAY	38.0641554482	-84.4783189492
HLX-1699	H1699	1412	N BROADWAY	38.0647913952	-84.4772476014
HLX-1700	H1700	128	W NEW CIRCLE RD	38.0660314093	-84.4711853503
HLX-1701	H1701	1420	N FORBES RD	38.06551	-84.51962
HLX-1702	H1702	1442	TOWNLEY DR	38.066524342	-84.5186501012
HLX-1703	H1703	262	W NEW CIRCLE RD	38.0695314795	-84.4750992148
HLX-1704	H1704	1454	JINGLE BELL LN	38.0385619186	-84.4507931155
HLX-1705	H1705	121	CLYDE ST	38.0608337602	-84.5192233117
HLX-1706	H1706	101	CLYDE ST	38.0618139634	-84.5183910459
HLX-1707	H1707	326	MIDLAND PL	38.0427672943	-84.4797226872
HLX-1708	H1708	636	BIZZELL DR	38.0650999521	-84.5411471427
HLX-1709	H1709	624	BIZZELL DR	38.0656104337	-84.540837373
HLX-1710	H1710	1905	OXFORD CIR	38.0500695244	-84.5406701938
HLX-1711	H1711	1625	NICHOLASVILLE RD	38.0208530321	-84.5134368964
HLX-1712	H1712	1801	NICHOLASVILLE RD	38.0178264879	-84.5144135628
HLX-1713	H1713	813	GLENDOVER RD	38.0083984264	-84.4977026967
HLX-1714	H1714	1441	COLEMAN CT	38.0958513993	-84.4856525015
HLX-1715	H1715	1065	NEWTOWN PIKE	38.0771497998	-84.4937125249
HLX-1716	H1716	160	GAYLE DR	38.0496621947	-84.4460631118
HLX-1717	H1717	1641	GAYLE DR	38.0491924072	-84.4432918945
HLX-1718	H1718	1713	PELLINORE CT	38.0484333485	-84.4425314203
HLX-1719	H1719	532	LIMA DR	38.0733557896	-84.508753112
HLX-1720	H1720	584	CRICKLEWOOD DR	38.055470199	-84.4524491049

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1721	H1721	612	CRICKLEWOOD DR	38.0542919514	-84.4511558067
HLX-1722	H1722	612	SHAFTSBURY RD	38.0564186644	-84.4535547334
HLX-1723	H1723	1747	HARROGATE RD	38.0590159936	-84.455984183
HLX-1724	H1724	360	RIVER PARK DR	37.9743924719	-84.4779545216
HLX-1725	H1725	3621	RIVER PARK DR	37.9736301895	-84.4785773936
HLX-1726	H1726	1419	BEAUFORT DR	37.9730374966	-84.4773368867
HLX-1727	H1727	1477	THAMES DR	37.9721650035	-84.475921617
HLX-1728	H1728	1460	THAMES DR	37.9730554062	-84.4754830541
HLX-1729	H1729	1416	THAMES DR	37.9736879281	-84.4768459529
HLX-1731	H1731	3037	MONTAVESTA RD	38.0038655561	-84.4919632328
HLX-1732	H1732	3122	LAMAR DR	38.0024262232	-84.4922052362
HLX-1733	H1733	3174	LAMAR DR	38.0026173901	-84.4910709812
HLX-1734	H1734	3025	MONTAVESTA RD	38.0037043549	-84.4909376505
HLX-1735	H1735	0	E NEW CIRCLE RD	38.048179728	-84.4544380854
HLX-1736	H1736	760	E NEW CIRCLE RD	38.0475080397	-84.4542538203
HLX-1737	H1737	1836	RUSSELL CAVE RD	38.0845054942	-84.4680618766
HLX-1739	H1739	429	HAGGARD LN	38.0753368172	-84.4604784283
HLX-1740	H1740	1021	S BROADWAY	38.03803	-84.51637
HLX-1741	H1741	385	VIRGINIA AVE	38.0381887572	-84.5147988295
HLX-1743	H1743	1294	MERMAN DR	37.9766273581	-84.4829417506
HLX-1744	H1744	1208	AUSTIN CT	37.9761668466	-84.4841683202
HLX-1745	H1745	3624	CROSBY DR	37.9756111755	-84.4835819889
HLX-1746	H1746	3693	NILES DR	37.9745312884	-84.4845762111
HLX-1747	H1747	3653	NILES DR	37.9750253419	-84.4859246039
HLX-1748	H1748	3625	NILES DR	37.9762582631	-84.4854177609
HLX-1749	H1749	1263	MERMAN DR	37.9773534141	-84.484617309
HLX-1750	H1750	1036	ARMSTRONG MILL RD	37.9823772538	-84.4933352684
HLX-1751	H1751	1807	RALEIGH RD	38.0527902785	-84.4477368771
HLX-1752	H1752	1647	KILKENNY DR	38.0538985796	-84.4477854463
HLX-1753	H1753	1682	KILKENNY DR	38.0541605433	-84.4462375305
HLX-1754	H1754	3531	MILANO RD	37.9819261984	-84.4849774499
HLX-1755	H1755	120	OCTAVIAN CIR	37.9804006967	-84.4834173619
HLX-1756	H1756	1201	VENETIAN CIR	37.9798623092	-84.4845770654
HLX-1757	H1757	3629	OLYMPIA CIR	37.9786185263	-84.4842024679

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1758	H1758	100	LAKESHORE DR	38.01803356	-84.466109206
HLX-1759	H1759	2093	FONTAINE RD	38.0173403355	-84.4686733302
HLX-1760	H1760	3456	LANSLOWNE DR	37.99320115	-84.5139158979
HLX-1761	H1761	3483	LANSLOWNE DR	37.9910082137	-84.5135037383
HLX-1762	H1762	297	HIGHTOWER RD	37.9922511884	-84.5111621196
HLX-1763	H1763	3413	FLINTRIDGE CIR	37.9920663102	-84.5155509584
HLX-1764	H1764	573	HI CREST DR	38.0597326139	-84.4502666659
HLX-1765	H1765	1724	WYATT PKY	38.03688053	-84.4594497936
HLX-1766	H1766	1753	WYATT PKY	38.0358422255	-84.4581786298
HLX-1767	H1767	1745	BENWOOD DR	38.0362110439	-84.4573032926
HLX-1768	H1768	1724	BENWOOD DR	38.0370523192	-84.4584041177
HLX-1769	H1769	180	AUGUSTA CT	38.0535949419	-84.443514409
HLX-1770	H1770	112	CHINOE RD	38.0255512774	-84.4757192895
HLX-1771	H1771	201	ROMANY RD	38.0216607533	-84.4847544117
HLX-1772	H1772	377	COLONY BLVD	38.019533783	-84.4894842994
HLX-1773	H1773	1558	LAKESWOOD CT	38.011737343	-84.4792227829
HLX-1774	H1774	1590	LAKESWOOD CT	38.0117286212	-84.4777001888
HLX-1775	H1775	342	STRATFORD DR	38.0141228757	-84.5268312777
HLX-1776	H1776	367	STRATFORD DR	38.0152089524	-84.5282913113
HLX-1777	H1777	2320	EASTWAY DR	38.0126640153	-84.525631751
HLX-1778	H1778	499	HOLLYHILL DR	38.0149905216	-84.5323680314
HLX-1779	H1779	538	STRATFORD DR	38.0176191972	-84.5315862599
HLX-1780	H1780	333	HOLLYHILL DR	38.0131626941	-84.5273493873
HLX-1781	H1781	2433	EASTWAY DR	38.0111545313	-84.5262380976
HLX-1782	H1782	2322	MAPLEWOOD DR	38.0137241561	-84.5289031062
HLX-1783	H1783	2319	PIERSON DR	38.0886906493	-84.4593084904
HLX-1784	H1784	2302	PIERSON DR	38.0881015302	-84.4602332521
HLX-1785	H1785	626	PARKSIDE DR	38.0873099476	-84.4588043819
HLX-1786	H1786	0	OLD FRANKFORT PIKE	38.05873672	-84.52888209
HLX-1787	H1787	0	OLD FRANKFORT PIKE	38.0579919415	-84.5278685785
HLX-1788	H1788	2012	REGENCY RD	38.0131776688	-84.5222051211
HLX-1789	H1789	1905	VERSAILLES RD	38.0479670364	-84.5385556172
HLX-1790	H1790	1714	VERSAILLES RD	38.0483600349	-84.5355043357
HLX-1793	H1793	1060	MAYWICK DR	38.0368946437	-84.5503936681

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1794	H1794	2020	DUNCAN MACHINERY DR	38.0610673849	-84.5425661008
HLX-1796	H1796	2101	HARRODSBURG RD	38.0249621927	-84.5383247968
HLX-1797	H1797	2208	HARRODSBURG RD	38.0240560937	-84.5400309823
HLX-1798	H1798	2184	LAKESIDE DR	38.0045166112	-84.4784724713
HLX-1799	H1799	332	RADCLIFFE RD	38.0824307603	-84.4617218584
HLX-1802	H1802	1417	BRYAN AVE	38.0586512269	-84.4689382982
HLX-1803	H1803	426	SHAWNEE AVE	38.0576678218	-84.4679025775
HLX-1804	H1804	462	SHAWNEE AVE	38.0565639803	-84.4667595611
HLX-1805	H1805	40	EMERSON DR	38.0595696316	-84.4661238467
HLX-1806	H1806	313	PERRY ST	38.0520160817	-84.5129621404
HLX-1807	H1807	1421	RICHMOND RD	38.0297240513	-84.4781874646
HLX-1808	H1808	315	NORTHLAND DR	38.0662303568	-84.4773208733
HLX-1809	H1809	208	TRANSCRIPT AVE	38.0324525197	-84.5129262419
HLX-1810	H1810	150	RUSSELL CAVE RD	38.071367147	-84.4760946361
HLX-1811	H1811	1506	RUSSELL CAVE RD	38.0719718105	-84.4754361836
HLX-1812	H1812	1725	CHELMSFORD DR	38.053560327	-84.4516527151
HLX-1813	H1813	581	STONEHAVEN DR	38.0548960579	-84.4530498757
HLX-1814	H1814	627	WARRINGTON DR	38.0544146312	-84.4539232618
HLX-1815	H1815	663	WARRINGTON DR	38.053165697	-84.452641445
HLX-1816	H1816	487	E NEW CIRCLE RD	38.0548217534	-84.459553231
HLX-1817	H1817	2351	PIERSON DR	38.0894261596	-84.4576468811
HLX-1818	H1818	629	KENT DR	38.0884235778	-84.4569969679
HLX-1819	H1819	2409	PIERSON DR	38.0910461045	-84.4553513055
HLX-1820	H1820	2379	PIERSON DR	38.0904649936	-84.4562786113
HLX-1821	H1821	2425	SHANDON DR	38.0905643204	-84.4542747753
HLX-1822	H1822	2369	SHANDON DR	38.0895433782	-84.4559401629
HLX-1823	H1823	532	FOLKSTONE DR	38.0004063064	-84.4609776626
HLX-1824	H1824	2744	LOCKHURST RD	37.9989940914	-84.4615718272
HLX-1825	H1825	2757	BAYBROOK RD	38.0000268955	-84.4604764592
HLX-1826	H1826	497	PLAINVIEW RD	38.0003167385	-84.4586622747
HLX-1827	H1827	2763	LOCKHURST RD	37.9991883664	-84.4604494577
HLX-1828	H1828	2787	LOCKHURST RD	37.9993927368	-84.4591224969
HLX-1829	H1829	493	MT TABOR RD	37.9999805646	-84.4574765614
HLX-1830	H1830	537	MT TABOR RD	37.9982097863	-84.4584204383

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1831	H1831	408	PLAINVIEW RD	38.0034506871	-84.4598753704
HLX-1832	H1832	441	PLAINVIEW RD	38.0021337424	-84.4599594941
HLX-1833	H1833	456	PLAINVIEW RD	38.0012645315	-84.4594811915
HLX-1834	H1834	2713	STETSON LN	38.0021017145	-84.4585706465
HLX-1835	H1835	461	MT TABOR RD	38.0012903454	-84.456883429
HLX-1836	H1836	572	COMPTON DR	37.9977588275	-84.4613944413
HLX-1837	H1837	550	COMPTON DR	37.9980691811	-84.4597889372
HLX-1838	H1838	2668	TWINBROOKE LN	37.9969635358	-84.4623238455
HLX-1839	H1839	575	PLAINVIEW RD	37.9968253365	-84.4604055462
HLX-1840	H1840	601	MT TABOR RD	37.9966259639	-84.4592038429
HLX-1841	H1841	413	HOLLOW CREEK RD	38.0732357999	-84.4758625582
HLX-1842	H1842	437	HOLLOW CREEK RD	38.07398	-84.47692
HLX-1843	H1843	376	RADCLIFFE RD	38.0806260425	-84.460896392
HLX-1844	H1844	411	RADCLIFFE RD	38.0790950781	-84.4615027009
HLX-1845	H1845	450	RADCLIFFE RD	38.0787752374	-84.4623900388
HLX-1846	H1846	521	RADCLIFFE RD	38.077626984	-84.463018917
HLX-1847	H1847	724	FAULKNER AVE	38.0929321363	-84.4522536755
HLX-1848	H1848	295	KINGSTON RD	37.9994234959	-84.4459662446
HLX-1849	H1849	292	KINGSTON RD	38.0916692432	-84.4514093031
HLX-1850	H1850	718	DAMEL CT	38.0920006703	-84.4524583728
HLX-1851	H1851	255	MALABU DR	38.0004388922	-84.5156621842
HLX-1852	H1852	2180	YOUNG DR	38.0263556776	-84.4569192295
HLX-1853	H1853	121	MALABU DR	38.0029315242	-84.5178431401
HLX-1854	H1854	147	MALABU DR	38.0019749583	-84.5168057045
HLX-1855	H1855	621	LISA CT	38.0835912675	-84.4603075176
HLX-1856	H1856	577	LISA DR	38.0829128448	-84.4592460988
HLX-1857	H1857	549	LISA DR	38.0817386092	-84.4581993854
HLX-1858	H1858	554	STONEHAVEN DR	38.0559436202	-84.4541299507
HLX-1859	H1859	517	STONEHAVEN DR	38.0568058357	-84.4556517615
HLX-1860	H1860	516	CRICKLEWOOD DR	38.0576964607	-84.4558528907
HLX-1861	H1861	913	MURRAY DR	38.0453137418	-84.4560725027
HLX-1862	H1862	1560	EASTLAND PKY	38.0462212998	-84.451882524
HLX-1863	H1863	2440	RICHMOND RD	38.0139559119	-84.4596664205
HLX-1864	H1864	2548	RICHMOND RD	38.0116045357	-84.4569843331

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1865	H1865	1870	MARLBORO DR	38.0815044064	-84.4639251132
HLX-1866	H1866	543	BENTON RD	38.0791969066	-84.4629186371
HLX-1867	H1867	571	BENTON RD	38.0802132868	-84.4641841559
HLX-1868	H1868	1827	MARLBORO DR	38.0801114732	-84.4652759162
HLX-1869	H1869	2888	MIDDLESEX WAY	38.0046140869	-84.5334860719
HLX-1870	H1870	2991	RUNNYMEDE WAY	38.0038807394	-84.5329473944
HLX-1871	H1871	2969	RUNNYMEDE WAY	38.0028343924	-84.5334572431
HLX-1872	H1872	2921	RUNNYMEDE WAY	38.0034879079	-84.5351749819
HLX-1873	H1873	447	WILSON DOWNING RD	37.9788896896	-84.5090793433
HLX-1874	H1874	397	WALLER AVE	38.0311450774	-84.5204584377
HLX-1875	H1875	317	REDDING RD	37.9906483841	-84.5118957413
HLX-1876	H1876	349	REDDING RD	37.9897293212	-84.5100798338
HLX-1877	H1877	1119	CENTURIAN RD	37.9826381139	-84.4858400957
HLX-1878	H1878	1701	ALEXANDRIA DR	38.0400889888	-84.5524217271
HLX-1879	H1879	831	MALABU DR	37.9918459358	-84.4996294896
HLX-1880	H1880	231	CATALPA RD	38.0264893653	-84.4836800427
HLX-1881	H1881	2444	PIERSON DR	38.0925626768	-84.4539612192
HLX-1882	H1882	2456	PIERSON DR	38.0933396952	-84.4533883294
HLX-1883	H1883	340	LEGION DR	38.0344951268	-84.520348598
HLX-1884	H1884	130	N LIMESTONE	38.0618886329	-84.4748508809
HLX-1885	H1885	628	BELLCASTLE RD	38.0560070864	-84.4481376712
HLX-1886	H1886	641	BELLCASTLE RD	38.0554288065	-84.4475575185
HLX-1887	H1887	1626	HARRODSBURG RD	38.0314656131	-84.5269849857
HLX-1888	H1888	109	GEORGETOWN RD	38.0767858292	-84.5070249339
HLX-1889	H1889	537	HI CREST DR	38.06084	-84.45146
HLX-1890	H1890	2439	NICHOLASVILLE RD	38.0020330753	-84.5197136984
HLX-1891	H1891	168	SURFSIDE DR	38.0015229779	-84.5180241344
HLX-1892	H1892	247	SURFSIDE DR	38.001219208	-84.5166789935
HLX-1893	H1893	3484	KING ARTHUR DR	37.9855359744	-84.510996278
HLX-1894	H1894	3508	KING ARTHUR DR	37.984404006	-84.5115642648
HLX-1895	H1895	3552	KING ARTHUR DR	37.9826970902	-84.5123938832
HLX-1896	H1896	367	LANCELOT LN	37.9845476069	-84.5103762087
HLX-1897	H1897	3532	GALAHAD DR	37.9830034454	-84.5109958486
HLX-1898	H1898	3387	GREENTREE RD	37.9908467195	-84.4817561919

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1899	H1899	1119	GREENTREE CT	37.9909285955	-84.4832265112
HLX-1900	H1900	1101	CENTRE PKY	37.98269	-84.48394
HLX-1901	H1901	3528	OLYMPIA RD	37.9833449246	-84.4866084527
HLX-1902	H1902	1140	CENTER PKY	37.9835893179	-84.4845203556
HLX-1903	H1903	1160	CENTER PKY	37.9826273126	-84.4838932291
HLX-1904	H1904	1192	CENTER PKY	37.981122935	-84.4826913219
HLX-1905	H1905	1193	BRIARWOOD DR	38.0810889793	-84.5078437357
HLX-1906	H1906	1157	BRIARWOOD DR	38.0813421584	-84.5059887075
HLX-1907	H1907	1129	BRIARWOOD DR	38.0817485318	-84.5044408707
HLX-1908	H1908	1098	REDWOOD DR	38.0828071905	-84.5034312182
HLX-1909	H1909	1158	REDWOOD DR	38.0819892433	-84.5066310667
HLX-1910	H1910	1126	REDWOOD DR	38.082486521	-84.5047744053
HLX-1911	H1911	650	KENNEDY RD	38.0721633879	-84.498106988
HLX-1912	H1912	415	GLEN ARVIN AVE	38.0645699226	-84.5054759303
HLX-1913	H1913	446	GLEN ARVIN AVE	38.0653036125	-84.5037976357
HLX-1914	H1914	2433	PIERSON DR	38.0917435902	-84.4542345802
HLX-1915	H1915	70	KINGSTON RD	38.0907126921	-84.4528837952
HLX-1916	H1916	105	FAIRDALE DR	38.0671197561	-84.5101650282
HLX-1917	H1917	1138	FINNEY DR	38.074215245	-84.5037072598
HLX-1918	H1918	1713	BREWER DR	38.0749696003	-84.4661908727
HLX-1919	H1919	2353	PARIS PIKE	38.0796258418	-84.4492475011
HLX-1920	H1920	2311	PARIS PIKE	38.0791565684	-84.4500237156
HLX-1921	H1921	1702	MERCER RD	38.0761241416	-84.5270358654
HLX-1922	H1922	1734	MERCER RD	38.0759113998	-84.5263887658
HLX-1924	H1924	1551	MERCER RD	38.0752774149	-84.5164121167
HLX-1925	H1925	2160	NICHOLASVILLE RD	38.0091505419	-84.5171779637
HLX-1926	H1926	648	LACO DR	38.0644855473	-84.5398484905
HLX-1927	H1927	2309	VERSAILLES RD	38.0468262333	-84.5530241131
HLX-1928	H1928	2285	VERSAILLES RD	38.0468827683	-84.5521056863
HLX-1930	H1930	1116	MANCHESTER ST	38.0549425281	-84.5145259609
HLX-1931	H1931	333	LEGION DR	38.033809982	-84.5193623152
HLX-1932	H1932	1533	NICHOLASVILLE RD	38.0229781249	-84.5126716198
HLX-1933	H1933	205	LAKESIDE DR	38.0067102449	-84.4769427769
HLX-1934	H1934	2048	LAKESIDE DR	38.0039876154	-84.4761914377

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1935	H1935	2076	LAKESIDE DR	38.0028454336	-84.4733433839
HLX-1936	H1936	333	REDDING RD	37.9902531299	-84.5110008792
HLX-1937	H1937	3487	LANSLOWNE DR	37.9898158039	-84.5136726826
HLX-1938	H1938	3482	LANSLOWNE DR	37.9893652402	-84.5140804872
HLX-1939	H1939	147	LAKESHORE DR	38.0195082961	-84.4689601362
HLX-1940	H1940	863	S BROADWAY	38.0395313236	-84.5144043973
HLX-1941	H1941	1311	NANCY HANKS RD	38.0472747637	-84.5229175992
HLX-1942	H1942	2310	SOUTHVIEW DR	38.0151809664	-84.5297518103
HLX-1943	H1943	2216	EASTWAY DR	38.0143273694	-84.5248042149
HLX-1944	H1944	545	HOLLYHILL DR	38.0164643288	-84.5362449239
HLX-1945	H1945	525	HOLLYHILL DR	38.0157174287	-84.534435787
HLX-1946	H1946	571	FAIRFIELD DR	38.0155159645	-84.5366634346
HLX-1947	H1947	531	FAIRFIELD DR	38.014838486	-84.5346238034
HLX-1948	H1948	565	HILL-N-DALE RD	38.014566987	-84.5371208343
HLX-1949	H1949	545	HILL-N-DALE RD	38.014053208	-84.5359036144
HLX-1950	H1950	506	HILL-N-DALE RD	38.0132085637	-84.5343385353
HLX-1951	H1951	540	CLAYMONT DR	38.0124301852	-84.5349873355
HLX-1952	H1952	2341	SOUTHVIEW DR	38.0142336775	-84.5301732225
HLX-1953	H1953	402	FAIRFIELD DR	38.0131959147	-84.5311728319
HLX-1954	H1954	2522	SOUTHVIEW DR	38.0122612727	-84.5318268826
HLX-1955	H1955	30	BRADFORD DR	38.0113999849	-84.5305935784
HLX-1956	H1956	245	BRADFORD DR	38.0108910838	-84.5291747361
HLX-1957	H1957	2480	MILLBROOK DR	38.0104880759	-84.5279410636
HLX-1958	H1958	2410	MILLBROOK DR	38.0117579808	-84.5275360222
HLX-1959	H1959	704	WERNE DR	38.0609030538	-84.543667129
HLX-1960	H1960	726	WERNE DR	38.0601491745	-84.5440414687
HLX-1961	H1961	101	APRICOT ST	38.0651931482	-84.5127994402
HLX-1962	H1962	40	PRICE RD	38.067583033	-84.5093211392
HLX-1963	H1963	1057	NANDINO BLVD	38.0785710113	-84.5040182376
HLX-1964	H1964	1057	NANDINO BLVD	38.0787139922	-84.5033549064
HLX-1965	H1965	637	SEVERN WAY	38.0060057998	-84.5349969187
HLX-1966	H1966	576	SEVERN WAY	38.0077793768	-84.5346965571
HLX-1967	H1967	2852	RUNNYMEDE WAY	38.0070751628	-84.5332744297
HLX-1968	H1968	2852	MIDDLESEX WAY	38.0067564505	-84.5323785704

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-1969	H1969	2876	MIDDLESEX WAY	38.005537826	-84.5330147429
HLX-1970	H1970	2876	RUNNYMEDE WAY	38.0058506488	-84.5339309203
HLX-1971	H1971	613	SEVERN WAY	38.0065531582	-84.5357065905
HLX-1972	H1972	2042	RAMBLER RD	38.0111817367	-84.5218874615
HLX-1973	H1973	226	CODELL DR	38.0144456085	-84.4548919556
HLX-1974	H1974	265	CODELL DR	38.0158153141	-84.4538479983
HLX-1975	H1975	2429	BUTTERNUT HILL CT	38.0152533755	-84.4527165414
HLX-1976	H1976	2468	BUTTERNUT HILL CT	38.014465259	-84.4539109288
HLX-1977	H1977	2023	EDGEWATER CT	37.9981321084	-84.4700987724
HLX-1978	H1978	984	EDGEWATER DR	37.9990163978	-84.4703910123
HLX-1979	H1979	955	EDGEWATER DR	37.9991769375	-84.4687580054
HLX-1980	H1980	982	LAKELAND DR	37.9982540923	-84.467444045
HLX-1981	H1981	2112	PAIGE CT	37.9970214479	-84.4671102346
HLX-1982	H1982	999	LAKELAND DR	37.9972108513	-84.4683124087
HLX-1983	H1983	909	EDGEWATER DR	37.9976453306	-84.4657499095
HLX-1984	H1984	369	HENRY CLAY BLVD	38.0321676201	-84.4712171057
HLX-1985	H1985	501	HOLLOW CREEK RD	38.0750802039	-84.4783275883
HLX-1986	H1986	529	HOLLOW CREEK RD	38.0760264521	-84.4796500962
HLX-1987	H1987	2197	VERSAILLES RD	38.0472368372	-84.548913072
HLX-1988	H1988	1445	VILLAGE DR	38.0479313613	-84.5489920276
HLX-1989	H1989	1346	VILLAGE DR	38.0488347116	-84.5494218194
HLX-1990	H1990	2224	DEVONPORT DR	38.0487266419	-84.5504107073
HLX-1991	H1991	1302	VILLAGE DR	38.0501105259	-84.549839916
HLX-1992	H1992	2023	RAMBLER RD	38.0121680806	-84.5214124153
HLX-1993	H1993	2070	RAMBLER RD	38.0099483591	-84.5223252007
HLX-1994	H1994	216	DERBY DR	38.0085412096	-84.5227133959
HLX-1995	H1995	2025	LAKESIDE DR	38.0053514262	-84.475827903
HLX-1996	H1996	2425	MIRAHILL DR	38.0198205526	-84.4508382459
HLX-1997	H1997	2452	MIRAHILL DR	38.0190073859	-84.4495171915
HLX-1998	H1998	2421	WINDWOOD CT	38.0184660108	-84.4504004573
HLX-1999	H1999	336	MULBERRY DR	38.0182471651	-84.4514389925
HLX-2000	H2000	300	MULBERRY RD	38.0168319306	-84.4519986043
HLX-2001	H2001	300	CODELL RD	38.0171744038	-84.4533461769
HLX-2002	H2002	356	CODELL RD	38.0187982387	-84.4527397467

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2003	H2003	1100	RUSSELL CAVE RD	38.0656308491	-84.4836870577
HLX-2004	H2004	1124	RUSSELL CAVE RD	38.0663764072	-84.4834565123
HLX-2005	H2005	444	ASBURY LN	38.0776887562	-84.4757427328
HLX-2006	H2006	417	ASBURY LN	38.076977925	-84.4745607978
HLX-2007	H2007	401	ASBURY LN	38.0761467328	-84.4734128569
HLX-2008	H2008	1520	MONTROSE DR	38.0788433543	-84.4809402862
HLX-2009	H2009	1578	LA SALLE RD	38.0794586377	-84.4797119119
HLX-2010	H2010	480	ASBURY LN	38.0794735097	-84.4781265903
HLX-2011	H2011	1690	HILL RISE DR	38.0468206566	-84.5342691028
HLX-2012	H2012	1704	HILL VIEW PL	38.0453318623	-84.5346204473
HLX-2013	H2013	408	PRICE RD	38.068031287	-84.5085633555
HLX-2014	H2014	460	PRICE RD	38.0695616562	-84.5064893898
HLX-2015	H2015	468	ROOSEVELT BLVD	38.0683677944	-84.5045917437
HLX-2017	H2017	409	ROOSEVELT BLVD	38.0675629031	-84.5061495077
HLX-2018	H2018	364	ROOSEVELT BLVD	38.0677284993	-84.5050787303
HLX-2019	H2019	899	MCMEEKIN PL	38.0164292569	-84.4952283717
HLX-2020	H2020	2160	LAKESIDE DR	38.002988791	-84.4779375389
HLX-2021	H2021	2145	LAKESIDE DR	38.0021366065	-84.4763495969
HLX-2022	H2022	2121	LAKESIDE DR	38.0020442439	-84.4752570092
HLX-2023	H2023	2064	LAKESIDE DR	38.0035157285	-84.4742809034
HLX-2024	H2024	1960	CAMBRIDGE DR	38.0513853983	-84.546156252
HLX-2025	H2025	190	CAMBRIDGE DR	38.049246018	-84.5430456601
HLX-2026	H2026	140	BURT RD	38.0073812109	-84.5194153499
HLX-2027	H2027	2312	PALUMBO DR	38.0223539517	-84.4535766154
HLX-2028	H2028	1032	RUSSELL CAVE RD	38.0641317506	-84.4841764006
HLX-2029	H2029	125	PAYNE ST	38.0554784276	-84.5054703023
HLX-2030	H2030	391	LANCELOT LN	37.9840049004	-84.5092688312
HLX-2031	H2031	3333	TATES CREEK RD	37.9963885375	-84.4958203381
HLX-2032	H2032	3355	TATES CREEK RD	37.9955494953	-84.4957011523
HLX-2033	H2033	3389	TATES CREEK RD	37.9939654662	-84.4956512824
HLX-2035	H2035	309	MONTAVESTA RD	38.0035332534	-84.4896171998
HLX-2036	H2036	2985	MONTAVESTA RD	38.0033901193	-84.4872658281
HLX-2037	H2037	378	NOTTINGHAM RD	37.9820097787	-84.5103026349
HLX-2038	H2038	337	NOTTINGHAM RD	37.9832889205	-84.50991009

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2039	H2039	3119	LANSLOWNE DR	38.0002117742	-84.4945741916
HLX-2040	H2040	3222	MONTAVESTA RD	37.9984461663	-84.4944364816
HLX-2041	H2041	70	WESTLAND DR	38.0609116248	-84.5449300426
HLX-2042	H2042	739	WESTLAND DR	38.0597389365	-84.545506125
HLX-2043	H2043	1804	GERALD DR	38.0891453944	-84.4742620999
HLX-2044	H2044	1849	GERALD DR	38.0903299585	-84.4734347803
HLX-2045	H2045	1893	GERALD DR	38.0903199494	-84.4725667553
HLX-2046	H2046	1841	MCCULLOUGH DR	38.0892993495	-84.4718381812
HLX-2047	H2047	1218	WINBURN DR	38.0880248541	-84.4724759895
HLX-2048	H2048	1164	WINBURN DR	38.0886021134	-84.4735281386
HLX-2049	H2049	1750	MCCULLOUGH DR	38.0868931303	-84.4730632542
HLX-2050	H2050	1824	BARKSDALE DR	38.0865324705	-84.4715849129
HLX-2051	H2051	1239	WINBURN DR	38.087369365	-84.4711898895
HLX-2052	H2052	1880	BARKSDALE DR	38.088353645	-84.4707564703
HLX-2053	H2053	1876	BOWEN CT	38.0876796366	-84.4699224385
HLX-2054	H2054	180	BARKSDALE DR	38.0860970229	-84.4701808775
HLX-2055	H2055	1776	BARKSDALE DR	38.0856718879	-84.4688963945
HLX-2056	H2056	1274	WINBURN DR	38.0866549372	-84.46923568
HLX-2057	H2057	1298	WINBURN DR	38.086241155	-84.4676719359
HLX-2058	H2058	1341	DEVONPORT DR	38.0488636256	-84.5541930216
HLX-2059	H2059	1858	ARUNDEL DR	38.0516235599	-84.4490745988
HLX-2060	H2060	1577	MARTHA CT	38.0495071892	-84.450371413
HLX-2061	H2061	742	CHILES AVE	38.066307488	-84.508343491
HLX-2062	H2062	776	BREATHITT AVE	38.0667664198	-84.5076082379
HLX-2063	H2063	744	FLORENCE AVE	38.0670329353	-84.5067621785
HLX-2064	H2064	449	BRADLEY CT	38.0687819925	-84.5056230653
HLX-2065	H2065	150	W ZANDALE DR	38.0088634538	-84.518698815
HLX-2066	H2066	1390	OLIVIA LN	38.0864644117	-84.4884996067
HLX-2067	H2067	217	OSAGE CT	38.0153750888	-84.4507297375
HLX-2068	H2068	293	OSAGE CT	38.0159111696	-84.4500550407
HLX-2070	H2070	524	ANGLIANA AVE	38.0465330851	-84.5153351857
HLX-2071	H2071	867	ANGLIANA AVE	38.0496380624	-84.5160185989
HLX-2073	H2073	2167	N BROADWAY	38.0777436303	-84.4532192261
HLX-2074	H2074	2141	N BROADWAY	38.0774850087	-84.4538295253

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2075	H2075	1047	REDWOOD DR	38.0822451444	-84.5005838175
HLX-2076	H2076	1085	BRIARWOOD DR	38.0818822987	-84.502185687
HLX-2077	H2077	160	THAMES DR	37.9736993609	-84.4797514064
HLX-2078	H2078	3640	RIVER PARK DR	37.9724102795	-84.4792897307
HLX-2079	H2079	2020	CAMBRIDGE DR	38.0530766838	-84.5489346522
HLX-2080	H2080	2045	CAMBRIDGE DR	38.0528916732	-84.5506439971
HLX-2081	H2081	1262	VILLAGE DR	38.0519486182	-84.5509145975
HLX-2082	H2082	2048	DANIEL CT	38.0508338822	-84.5504846926
HLX-2083	H2083	2022	JEFFREY CT	38.0520685431	-84.5496775203
HLX-2084	H2084	2032	DANIEL CT	38.0512268235	-84.5494852629
HLX-2085	H2085	2035	CUMMINS CT	38.0504137501	-84.5490111546
HLX-2086	H2086	442	GREENWOOD AVE	38.0694074602	-84.5054679739
HLX-2087	H2087	3443	SUTHERLAND DR	37.9873607898	-84.4824465265
HLX-2089	H2089	2505	LARKIN RD	37.9998260082	-84.5158487185
HLX-2090	H2090	2504	LARKIN RD	37.9996147273	-84.5166763291
HLX-2091	H2091	1103	KELSEY DR	38.057899411	-84.5518244876
HLX-2092	H2092	1076	KELSEY DR	38.0582666386	-84.5500722652
HLX-2093	H2093	1147	KILRUSH DR	38.0571845198	-84.5503963954
HLX-2094	H2094	1175	KILRUSH DR	38.0564258637	-84.5509727104
HLX-2098	H2098	2520	LARKIN RD	38.0173418804	-84.5657270799
HLX-2099	H2099	2611	WILHITE DR	37.9977438391	-84.5173447952
HLX-2100	H2100	1345	OLD FRANKFORT PIKE	38.0579386037	-84.5272758952
HLX-2102	H2102	1369	ALEXANDRIA DR	38.0495042026	-84.5523907891
HLX-2103	H2103	2078	RAINBOW RD	38.009160664	-84.5211876209
HLX-2104	H2104	2036	REGENCY RD	38.0122569702	-84.5226549192
HLX-2105	H2105	2056	REGENCY RD	38.0111956884	-84.523136718
HLX-2106	H2106	3516	CAMELOT DR	37.9817958238	-84.509029175
HLX-2107	H2107	3501	CAMELOT DR	37.9827226783	-84.5087074937
HLX-2108	H2108	455	LANCELOT LN	37.9813822404	-84.5078638311
HLX-2109	H2109	1060	WINBURN DR	38.0876177011	-84.479086777
HLX-2110	H2110	1101	WINBURN DR	38.0895564778	-84.4764335822
HLX-2111	H2111	457	ASBURY LN	38.0784492715	-84.4767579836
HLX-2112	H2112	1578	MONTROSE DR	38.079965224	-84.4805535884
HLX-2113	H2113	2432	WOODHILL DR	38.0163832626	-84.4510343787

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2114	H2114	40	PARK PL	38.0675481609	-84.4820440597
HLX-2115	H2115	845	ANGLIANA AVE	38.0481516831	-84.5157255612
HLX-2116	H2116	597	ANGLIANA AVE	38.045794441	-84.5151514928
HLX-2117	H2117	497	ANGLIANA AVE	38.0448864462	-84.514380927
HLX-2118	H2118	1721	HILL RISE DR	38.0465886278	-84.5361007955
HLX-2119	H2119	1321	NANCY HANKS RD	38.0472256167	-84.5222960485
HLX-2120	H2120	1143	OAKWOOD DR	38.0831862117	-84.5060705395
HLX-2121	H2121	1597	KILKENNY DR	38.052951207	-84.4498503461
HLX-2122	H2122	1744	LIBERTY RD	38.0341704396	-84.4604442241
HLX-2123	H2123	1776	LIBERTY RD	38.0332352698	-84.4596802456
HLX-2124	H2124	802	N BROADWAY	38.0599595949	-84.4837996777
HLX-2125	H2125	1724	VERSAILLES RD	38.048223858	-84.5366644021
HLX-2126	H2126	2037	BUCK LN	38.0840770076	-84.5361492686
HLX-2127	H2127	1997	CAMBRIDGE DR	38.0524504363	-84.5477849057
HLX-2128	H2128	1234	MAN O WAR PL	38.0325731176	-84.5198529849
HLX-2131	H2131	1575	ELSTON DR	38.0768250649	-84.4765828103
HLX-2132	H2132	417	KILPATRICK CT	38.075668766	-84.4749349057
HLX-2133	H2133	541	ASBURY LN	38.0815169665	-84.4809034589
HLX-2134	H2134	1570	VAN BUREN DR	38.0808571439	-84.4824703714
HLX-2135	H2135	1518	VAN BUREN DR	38.080348697	-84.4818808637
HLX-2136	H2136	150	E NEW CIRCLE RD	38.0222636046	-84.4551650048
HLX-2137	H2137	2306	PALUMBO DR	38.0225280898	-84.4543652069
HLX-2138	H2138	50	CODELL DR	38.0218154992	-84.4514367808
HLX-2139	H2139	2375	PALUMBO DR	38.0214412859	-84.4505453583
HLX-2140	H2140	140	ALEXANDRIA DR	38.0485727656	-84.5524486703
HLX-2141	H2141	112	E VINE ST	38.0450303772	-84.4974097076
HLX-2143	H2143	260	E VINE ST	38.042565978	-84.4947056007
HLX-2144	H2144	1149	CAYWOOD DR	38.0566189084	-84.552334701
HLX-2145	H2145	1143	KELSEY DR	38.0569202496	-84.5536694385
HLX-2148	H2148	444	TRANSPORT CT	38.0789648347	-84.5304346359
HLX-2149	H2149	461	TRANSPORT CT	38.0799642185	-84.5302665225
HLX-2150	H2150	1508	VERSAILLES RD	38.0491115484	-84.529080431
HLX-2151	H2151	160	COX ST	38.051714049	-84.5084229299
HLX-2152	H2152	2016	BUCK LN	38.0836516205	-84.5354130363

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2153	H2153	411	DOUGLAS AVE	38.0649304565	-84.507438097
HLX-2154	H2154	439	DOUGLAS AVE	38.0655874389	-84.5059502192
HLX-2155	H2155	455	DOUGLAS AVE	38.066090967	-84.5047636776
HLX-2156	H2156	452	LINDBERG DR	38.0670093179	-84.5048700822
HLX-2157	H2157	841	GEORGETOWN ST	38.0693037751	-84.5040650417
HLX-2158	H2158	1032	MAJAUN RD	38.0794603135	-84.5074676902
HLX-2159	H2159	1079	MAJAUN RD	38.0798236973	-84.5061487864
HLX-2160	H2160	1105	NANDINO BLVD	38.0781774454	-84.5055980454
HLX-2161	H2161	441	REDDING RD	37.983202302	-84.4947946983
HLX-2163	H2163	3394	PIMLICO PKY	37.9872309403	-84.475537907
HLX-2164	H2164	1296	MAYWOOD PK	37.9888504216	-84.4743654403
HLX-2165	H2165	1295	OAKLAWN PK	37.9898595089	-84.4736576586
HLX-2166	H2166	110	ARMSTRONG MILL RD	37.9815811524	-84.4916472037
HLX-2167	H2167	563	HASKINS DR	38.066891938	-84.4986020145
HLX-2168	H2168	2217	NICHOLASVILLE RD	38.0085290581	-84.5178195342
HLX-2169	H2169	2196	LAKESIDE DR	38.0054441491	-84.4776996058
HLX-2170	H2170	404	W MAIN ST	38.04950821	-84.5009046885
HLX-2171	H2171	0	W VINE ST	38.0489790112	-84.5010954503
HLX-2172	H2172	369	W VINE ST	38.0481952777	-84.500691565
HLX-2173	H2173	201	W VINE ST	38.0465859459	-84.4990761031
HLX-2174	H2174	104	W VINE ST	38.0457593958	-84.4981680474
HLX-2175	H2175	101	E VINE ST	38.0452771981	-84.4973201087
HLX-2177	H2177	230	WATER ST	38.04446559	-84.49650245
HLX-2178	H2178	242	WATER ST	38.04329	-84.49463
HLX-2179	H2179	251	WATER ST	38.0432251499	-84.4945102881
HLX-2180	H2180	271	WATER ST	38.0427790298	-84.4941192901
HLX-2181	H2181	136	ROSE ST	38.0422824853	-84.4936508429
HLX-2182	H2182	360	E VINE ST	38.0414106107	-84.4927974003
HLX-2183	H2183	40	E VINE ST	38.0409417141	-84.4922150755
HLX-2184	H2184	40	E VINE ST	38.0412458195	-84.4920598358
HLX-2185	H2185	40	E MAIN ST	38.0409320271	-84.491494049
HLX-2186	H2186	2558	LARKIN RD	38.0006599494	-84.5200501893
HLX-2187	H2187	2601	NICHOLASVILLE RD	37.9991987965	-84.5207351368
HLX-2189	H2189	1067	WHIPPLE CT	38.0806476218	-84.5037590629

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2190	H2190	1020	WHIPPLE CT	38.0799667082	-84.5022336966
HLX-2191	H2191	1025	NANDINO BLVD	38.0785953392	-84.5019567774
HLX-2192	H2192	1070	BRENTWOOD CT	38.0796719759	-84.4997318095
HLX-2193	H2193	1038	BRENTWOOD CT	38.0784277566	-84.4991975005
HLX-2194	H2194	968	NANDINO BLVD	38.0769736688	-84.4998043862
HLX-2195	H2195	1527	THAMES DR	37.9716854295	-84.4777775625
HLX-2196	H2196	2466	PLUMTREE CT	38.0167570411	-84.4495045585
HLX-2197	H2197	2402	PALUMBO DR	38.0207537897	-84.449585
HLX-2198	H2198	180	SPRUCE ST	38.0455901965	-84.4913850286
HLX-2199	H2199	1133	BOXWOOD DR	38.0846767474	-84.5055490253
HLX-2200	H2200	1823	COSTIGAN DR	38.0886946687	-84.4810860172
HLX-2201	H2201	1853	COSTIGAN DR	38.0894121239	-84.4795698847
HLX-2202	H2202	1857	RITTENHOUSE CT	38.0899908421	-84.4802865301
HLX-2203	H2203	1057	PENNEBAKER DR	38.0913787053	-84.4794640668
HLX-2204	H2204	1037	PENNEBAKER DR	38.0908647455	-84.4784836553
HLX-2205	H2205	1081	DOVE RUN RD	37.9972205773	-84.4934446904
HLX-2206	H2206	3338	MONTAVESTA RD	37.9970095741	-84.4920683707
HLX-2208	H2208	369	PEACHTREE RD	38.0180876869	-84.448277105
HLX-2209	H2209	341	PEACHTREE RD	38.0177160539	-84.4493487062
HLX-2210	H2210	2472	WOODHILL DR	38.0153684885	-84.4490820305
HLX-2211	H2211	413	PEACHTREE RD	38.0169410326	-84.4466599318
HLX-2212	H2212	1771	HARRODSBURG RD	38.0299581396	-84.5302727136
HLX-2213	H2213	272	DERBY DR	38.0096833359	-84.5248566962
HLX-2214	H2214	2088	REGENCY RD	38.0098946403	-84.5236426213
HLX-2215	H2215	210	REGENCY RD	38.0089272588	-84.5241629211
HLX-2216	H2216	3355	TATES CREEK RD	37.9955045364	-84.4952497121
HLX-2217	H2217	1025	DOVE RUN RD	37.9960719953	-84.4940768959
HLX-2219	H2219	1208	COLONIAL DR	38.0451297424	-84.5591611354
HLX-2220	H2220	1233	COLONIAL DR	38.0430933937	-84.5606122856
HLX-2221	H2221	1264	COLONIAL DR	38.0404494849	-84.5622784898
HLX-2222	H2222	1248	STANDISH WAY	38.0423511188	-84.5630512367
HLX-2223	H2223	3607	NICHOLASVILLE RD	37.9862546653	-84.5263617148
HLX-2224	H2224	3395	NICHOLASVILLE RD	37.9886988076	-84.5252912203
HLX-2225	H2225	3301	NICHOLASVILLE RD	37.9904743664	-84.5243432354

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2226	H2226	160	E NEW CIRCLE RD	38.0177558202	-84.4568716035
HLX-2227	H2227	0	E NEW CIRCLE RD	38.0242105402	-84.4537424292
HLX-2228	H2228	1607	VERSAILLES RD	38.0486758653	-84.5326289551
HLX-2229	H2229	420	LIMA DR	38.0738992327	-84.5117961047
HLX-2230	H2230	394	LIMA DR	38.0739769851	-84.5124169663
HLX-2231	H2231	475	LAKETOWER DR	38.01041915	-84.47058694
HLX-2232	H2232	515	LAKETOWER DR	38.0088530676	-84.4693124285
HLX-2233	H2233	507	LAKETOWER DR	38.0091207742	-84.4706017014
HLX-2234	H2234	1825	LIBERTY RD	38.0321700987	-84.4582701196
HLX-2235	H2235	2358	NICHOLASVILLE RD	38.0040936984	-84.519001815
HLX-2236	H2236	2655	TATES CREEK RD	38.0124769931	-84.495497984
HLX-2237	H2237	110	WINCHESTER RD	38.0422230667	-84.4662893227
HLX-2238	H2238	1140	WINCHESTER RD	38.042620853	-84.4613122176
HLX-2239	H2239	328	LARKWOOD DR	38.0156824958	-84.4467359338
HLX-2240	H2240	374	LARKWOOD DR	38.0159941656	-84.4455133967
HLX-2241	H2241	417	HEDGEWOOD DR	38.0151505005	-84.4462465334
HLX-2242	H2242	230	WOODHILL DR	38.0175105669	-84.45575556
HLX-2243	H2243	2350	WOODHILL DR	38.0173430935	-84.4548755245
HLX-2244	H2244	3051	KIRKLEVINGTON DR	37.9892159403	-84.4959265549
HLX-2245	H2245	402	MACADAM DR	37.9875647697	-84.4988799784
HLX-2246	H2246	3050	KIRKLEVINGTON DR	37.988683721	-84.4979878103
HLX-2247	H2247	575	MERRIMAC DR	37.9891360001	-84.5515587408
HLX-2248	H2248	591	MERRIMAC DR	37.9905991347	-84.552695203
HLX-2249	H2249	552	CROMWELL WAY	37.9868829591	-84.5513733716
HLX-2250	H2250	1037	WINBURN DR	38.0885770444	-84.4782709729
HLX-2251	H2251	1725	N BROADWAY	38.069774942	-84.4680864734
HLX-2253	H2253	201	SIMPSON AVE	38.0345197601	-84.5155728737
HLX-2254	H2254	1713	COSTIGAN DR	38.0914868068	-84.4801293294
HLX-2255	H2255	1749	COSTIGAN DR	38.0901438812	-84.4812954738
HLX-2256	H2256	1898	BALFOUR DR	38.0918597473	-84.4812599167
HLX-2257	H2257	1871	BALFOUR DR	38.0906249095	-84.4823254471
HLX-2258	H2258	1843	BALFOUR DR	38.0896147084	-84.4831691439
HLX-2259	H2259	1531	LA SALLE RD	38.0782524503	-84.481769822
HLX-2260	H2260	640	CARVER RD	38.0796560737	-84.4834229198

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2261	H2261	524	CODELL DR	38.0231252636	-84.4509677884
HLX-2262	H2262	250	OSAGE CT	38.0147578596	-84.4498183428
HLX-2263	H2263	468	COOPER DR	38.0254955363	-84.5020783141
HLX-2265	H2265	2957	MONTAVESTA RD	38.0027284166	-84.485892295
HLX-2266	H2266	2938	MONTAVESTA RD	38.0012429386	-84.4866465987
HLX-2267	H2267	2921	MONTAVESTA RD	38.0007679683	-84.4878403573
HLX-2268	H2268	3653	RIVER PARK DR	37.971602479	-84.4798699696
HLX-2269	H2269	3697	RIVER PARK DR	37.9704874964	-84.4807201595
HLX-2270	H2270	1392	TRENT BLVD	37.9697214569	-84.4798110312
HLX-2271	H2271	1275	TRENT BLVD	37.9705730443	-84.481746711
HLX-2272	H2272	1951	STANTON WAY	38.1026996924	-84.4845946562
HLX-2273	H2273	1325	TANFORAN DR	37.9896625345	-84.4712037712
HLX-2274	H2274	1288	TANFORAN CT	37.9908418925	-84.4733402551
HLX-2275	H2275	1291	NARRAGANSETT PK	37.9912669631	-84.472442574
HLX-2276	H2276	3278	AQUEDUCT DR	37.9920819455	-84.4707881467
HLX-2277	H2277	3280	WATERFORD PK	37.9912244292	-84.4700641432
HLX-2278	H2278	1225	CENTER PKY	37.9804935226	-84.4813963654
HLX-2279	H2279	1262	CENTER PKY	37.9797755521	-84.4788451518
HLX-2280	H2280	1252	KEENELAND CT	37.9788448182	-84.4804059683
HLX-2281	H2281	3563	CAULDER RD	37.9791187296	-84.4820081253
HLX-2282	H2282	1252	HOT SPRINGS CT	37.9779904831	-84.4810091178
HLX-2283	H2283	1253	HIALEIAH CT	37.9772720214	-84.4814096308
HLX-2284	H2284	3599	CAULDER RD	37.9776230073	-84.483226336
HLX-2285	H2285	360	GRACE DR	37.9756543402	-84.479890586
HLX-2286	H2286	3640	GRACE DR	37.9743022852	-84.480983665
HLX-2287	H2287	1343	STEPHEN FOSTER DR	37.9756432617	-84.4812945692
HLX-2288	H2288	1336	OX HILL DR	37.9727889269	-84.4817852281
HLX-2289	H2289	1379	STEPHEN FOSTER DR	37.9745384426	-84.4821926608
HLX-2290	H2290	205	CODELL DR	38.0131557631	-84.4546434214
HLX-2291	H2291	0	OLD TODDS RD	38.0121181018	-84.4507767742
HLX-2292	H2292	20	ALSAB CT	38.0127796681	-84.4521052927
HLX-2293	H2293	2656	CHANT CT	38.0128411688	-84.4505334395
HLX-2294	H2294	307	ALSAB CT	38.0133747662	-84.4527445787
HLX-2295	H2295	1912	PORT ROYAL CT	38.0455457627	-84.5487852471

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2296	H2296	1529	PORT ROYAL DR	38.0465750394	-84.5471320119
HLX-2297	H2297	1501	ROANOKE RD	38.0462488763	-84.5500952702
HLX-2298	H2298	240	MIRAHILL DR	38.0203318609	-84.452209261
HLX-2299	H2299	543	LAKETOWER DR	38.0094175658	-84.4669552276
HLX-2300	H2300	1066	VALLEY FARM DR	38.0923890573	-84.4791990494
HLX-2301	H2301	1052	VALLEY FARM DR	38.0919429238	-84.4783470036
HLX-2302	H2302	1910	BEDINGER CT	38.091454661	-84.4775035952
HLX-2303	H2303	1016	VALLEY FARM DR	38.0909822035	-84.4766194939
HLX-2304	H2304	996	VALLEY FARM DR	38.0906925975	-84.4756380306
HLX-2305	H2305	972	VALLEY FARM DR	38.0904023372	-84.4746800276
HLX-2306	H2306	2012	BRIDGEPORT DR	38.0080440296	-84.4729753738
HLX-2307	H2307	496	SEELEY DR	38.0077158752	-84.4713570489
HLX-2308	H2308	516	LAKESHORE DR	38.006761396	-84.4707514946
HLX-2309	H2309	532	LAKESHORE DR	38.005814428	-84.4704230813
HLX-2310	H2310	2051	BRIDGEPORT DR	38.00634	-84.47322
HLX-2311	H2311	297	HEDGEWOOD CT	38.0142691447	-84.4476248778
HLX-2312	H2312	234	HEDGEWOOD CT	38.0134167869	-84.4492918105
HLX-2313	H2313	355	COOPER DR	38.02183847	-84.49330316
HLX-2314	H2314	363	COOPER DR	38.0265561454	-84.5062843628
HLX-2315	H2315	1515	GAIDRY RD	38.0456575152	-84.4478447872
HLX-2316	H2316	1623	GRANT DR	38.0767989113	-84.4824684499
HLX-2317	H2317	1490	GRANT DR	38.0767962737	-84.4809610059
HLX-2318	H2318	1550	GRANT DR	38.0756413222	-84.4830192375
HLX-2319	H2319	1537	GREEN HILLS RD	38.047106467	-84.4460058199
HLX-2320	H2320	1513	GREEN HILLS RD	38.0467841101	-84.447766579
HLX-2321	H2321	3380	MONTAVESTA RD	37.9972488349	-84.4896555938
HLX-2322	H2322	2091	VON LIST WAY	38.0123112216	-84.4737875253
HLX-2323	H2323	445	LAKESHORE DR	38.011220486	-84.4726723585
HLX-2324	H2324	461	LAKESHORE DR	38.0099473597	-84.47242472
HLX-2325	H2325	3393	TATES CREEK RD	37.9930035084	-84.4955726043
HLX-2326	H2326	866	MALABU DR	37.9921760451	-84.4965387155
HLX-2327	H2327	515	LISA DR	38.0807309058	-84.4569888112
HLX-2328	H2328	1573	KILKENNY DR	38.0521560522	-84.4508320053
HLX-2329	H2329	3304	WOOD VALLEY CT	37.9962539489	-84.4904602184

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2330	H2330	3330	WOOD VALLEY CT	37.9948012671	-84.4902271505
HLX-2331	H2331	3377	MOUNDVIEW CT	37.9960253362	-84.4925746531
HLX-2332	H2332	3471	WARWICK CT	37.9893593335	-84.5091492645
HLX-2333	H2333	3446	WARWICK CT	37.9905034068	-84.5083928247
HLX-2334	H2334	3449	BELLMEADE RD	37.9910068771	-84.5093716622
HLX-2335	H2335	497	SEVERN WAY	38.0060334262	-84.5298471682
HLX-2336	H2336	441	SEVERN WAY	38.0033236112	-84.5308772089
HLX-2337	H2337	409	SEVERN WAY	38.0020648229	-84.5318725512
HLX-2338	H2338	2916	ARK ROYAL WAY	38.00358672	-84.5318706288
HLX-2339	H2339	2889	ARK ROYAL WAY	38.0048589119	-84.5319449949
HLX-2340	H2340	3281	TISDALE DR	37.9920409723	-84.5517779423
HLX-2341	H2341	3317	TISDALE DR	37.9911865325	-84.5495681118
HLX-2342	H2342	3374	TISDALE DR	37.989526616	-84.5483339973
HLX-2343	H2343	3409	FRASERDALE DR	37.9904519944	-84.5504313578
HLX-2344	H2344	3579	NIAGARA DR	37.9681486898	-84.4787013818
HLX-2345	H2345	3639	NIAGARA DR	37.9702875579	-84.4771540032
HLX-2346	H2346	3694	NIAGARA DR	37.9692416326	-84.4789148179
HLX-2347	H2347	1394	DIX DR	37.9670594007	-84.4807385426
HLX-2348	H2348	3773	RED RIVER DR	37.9683041422	-84.4817447392
HLX-2349	H2349	3342	PEPPERHILL RD	37.9959025169	-84.488429795
HLX-2350	H2350	3270	PEPPERHILL RD	37.9989178125	-84.4901991823
HLX-2351	H2351	3238	PEPPERHILL RD	37.9998300184	-84.4879294864
HLX-2352	H2352	1356	TANFORAN DR	37.9887979129	-84.4694861348
HLX-2353	H2353	3255	PIMLICO PKY	37.9900246571	-84.4682719836
HLX-2355	H2355	3251	AQUEDUCT DR	37.9929294816	-84.4691473945
HLX-2356	H2356	30	HICKORY ST	38.058753086	-84.5025381725
HLX-2357	H2357	50	BOB-O-LINK DR	38.0302079598	-84.5238586195
HLX-2358	H2358	433	LARKWOOD DR	38.0143851616	-84.4431272602
HLX-2359	H2359	413	LARKWOOD DR	38.01489434	-84.4437899052
HLX-2360	H2360	397	LARKWOOD DR	38.0153905825	-84.4445237156
HLX-2361	H2361	1290	CENTER PKY	37.9800153697	-84.4772130081
HLX-2362	H2362	3503	RIVER PARK DR	37.9788365315	-84.476907651
HLX-2363	H2363	3526	RIVER PARK DR	37.9780189081	-84.4766496845
HLX-2364	H2364	3562	RIVER PARK DR	37.9765647366	-84.4767756184

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2365	H2365	3599	RIVER PARK DR	37.9752054032	-84.4775396526
HLX-2366	H2366	1260	ASCOT PK	37.9759128676	-84.4786288177
HLX-2367	H2367	1260	AK-SAR-BEN PK	37.9766640458	-84.4782713915
HLX-2368	H2368	1260	ATOKAD PK	37.9779330078	-84.4780842689
HLX-2369	H2369	2700	RICHMOND RD	38.0087563945	-84.4549752806
HLX-2370	H2370	153	PATCHEN DR	38.0080537754	-84.456109295
HLX-2371	H2371	255	PATCHEN DR	38.0067658751	-84.4578137656
HLX-2372	H2372	2755	GRIBBIN DR	38.0062439327	-84.4546506035
HLX-2373	H2373	865	LANE ALLEN RD	38.0303475199	-84.5414425509
HLX-2374	H2374	2548	LARKIN RD	38.0004622854	-84.5187543103
HLX-2375	H2375	731	SHROPSHIRE AVE	38.0503953189	-84.4761885891
HLX-2376	H2376	1126	RUSSELL CAVE RD	38.0671273327	-84.4827298165
HLX-2377	H2377	1273	DALE DR	37.9735759462	-84.4864688491
HLX-2378	H2378	130	DALE DR	37.9729361444	-84.4851973044
HLX-2379	H2379	1325	DALE DR	37.9722981682	-84.4838078784
HLX-2380	H2380	1234	TRENT BLVD	37.9709237046	-84.4841502883
HLX-2381	H2381	3737	RED RIVER DR	37.9693611072	-84.4846334355
HLX-2382	H2382	1441	DALE DR	37.9690853033	-84.4833518702
HLX-2383	H2383	60	TEAK WOOD DR	38.0147328807	-84.488242339
HLX-2384	H2384	625	TEAK WOOD DR	38.0133326853	-84.4882524406
HLX-2385	H2385	649	TEAK WOOD DR	38.0115068344	-84.4881854424
HLX-2386	H2386	624	TALLY RD	38.012568077	-84.4870624666
HLX-2387	H2387	993	TURKEY FOOT RD	38.0141913883	-84.4862231122
HLX-2388	H2388	1025	TURKEY FOOT RD	38.0125516081	-84.4857343685
HLX-2389	H2389	795	WARD DR	38.0903079013	-84.4706889233
HLX-2390	H2390	826	WARD DR	38.0912592859	-84.4719429993
HLX-2391	H2391	872	WARD DR	38.0920154238	-84.4732899287
HLX-2392	H2392	904	WARD DR	38.0931290049	-84.4757990141
HLX-2393	H2393	956	WARD DR	38.0942940034	-84.4783600975
HLX-2394	H2394	458	WOODLAKE WAY	38.0190757382	-84.4912509047
HLX-2395	H2395	973	PRIMROSE CT	38.0769713515	-84.5030309038
HLX-2396	H2396	2052	VON LIST WAY	38.0107539681	-84.4758217594
HLX-2397	H2397	2067	MANOR DR	38.0100071379	-84.474587653
HLX-2398	H2398	2076	NORBORNE DR	38.0089380661	-84.4737538834

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2399	H2399	350	WARWICK DR	37.9880773466	-84.5097542565
HLX-2400	H2400	2424	PALUMBO DR	38.0200139161	-84.4485379884
HLX-2401	H2401	2450	PALUMBO DR	38.0192267438	-84.447476769
HLX-2402	H2402	2456	PALUMBO DR	38.0184223879	-84.4463718466
HLX-2403	H2403	2471	PALUMBO DR	38.0176658382	-84.4453580493
HLX-2404	H2404	2493	PALUMBO DR	38.0169797441	-84.444355091
HLX-2405	H2405	2512	PALUMBO DR	38.0162837339	-84.4433924411
HLX-2406	H2406	1180	MANCHESTER ST	38.0559788734	-84.5172601505
HLX-2407	H2407	1210	MANCHESTER ST	38.0566718638	-84.5192300661
HLX-2408	H2408	290	BIG RUN RD	38.0006104724	-84.5313146399
HLX-2430	H2430	501	S LIMESTONE	38.0396913324	-84.5069648124
HLX-2433	H2433	1716	BON-AIR DR	38.0293033388	-84.4724330051
HLX-2434	H2434	1724	FAIRWAY DR	38.0279601752	-84.474355575
HLX-2435	H2435	316	MARIEMONT DR	38.0641755486	-84.4572197322
HLX-2436	H2436	1613	CAROLYN DR	38.0344531019	-84.4667040416
HLX-2437	H2437	368	QUEENSWAY DR	38.0308319939	-84.4689381158
HLX-2438	H2438	401	HILLTOP AVE	38.0311162859	-84.5009469094
HLX-2439	H2439	1425	DELAWARE AVE	38.0370274413	-84.4683290203
HLX-2440	H2440	1668	LIBERTY RD	38.0363286173	-84.4625042605
HLX-2441	H2441	427	HOLIDAY RD	38.032260135	-84.4657553192
HLX-2442	H2442	1823	NICHOLASVILLE RD	38.0169191174	-84.5148529063
HLX-2443	H2443	1806	CLAYS MILL RD	38.027821147	-84.5300280629
HLX-2444	H2444	1130	LIBERTY RD	38.0386472442	-84.4658115259
HLX-2446	H2446	225	TAYLOR DR	38.0703120942	-84.5275361363
HLX-2447	H2447	313	GLENDALE AVE	38.0731820744	-84.5246845431
HLX-2448	H2448	309	HILLSBORO AVE	38.0726560876	-84.5235668368
HLX-2449	H2449	209	BOILING SPRINGS DR	38.0683928195	-84.5244732252
HLX-2450	H2450	341	BOILING SPRINGS DR	38.0733681241	-84.5218527407
HLX-2451	H2451	558	SHERIDAN DR	38.0186671067	-84.5320587369
HLX-2452	H2452	565	STRATFORD DR	38.0181518561	-84.5328568784
HLX-2453	H2453	0	ST JOSEPH DR	38.0309943419	-84.5222454734
HLX-2454	H2454	138	TAHOMA RD	38.0127355825	-84.5117897545
HLX-2455	H2455	1949	NICHOLASVILLE RD	38.0125103392	-84.5163338437
HLX-2457	H2457	1849	EDGEWORTH DR	38.0685239792	-84.456480805

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2458	H2458	2038	CLAYS MILL RD	38.0227441685	-84.5326536237
HLX-2462	H2462	3245	TATES CREEK RD	37.9996687878	-84.4961484613
HLX-2463	H2463	275	LARCH LN	38.069919725	-84.5223105401
HLX-2464	H2464	232	BURKE RD	38.0679197306	-84.5219090696
HLX-2465	H2465	147	S FORBES RD	38.0617072206	-84.5222449532
HLX-2466	H2466	20	BARBERRY LN	38.0227323704	-84.5160648603
HLX-2467	H2467	530	ARCADIA PK	38.0215384043	-84.5174014025
HLX-2468	H2468	411	ROSEMONT GDN	38.0219184802	-84.5277610556
HLX-2469	H2469	1802	LAKWOOD DR	38.0081311468	-84.4827153402
HLX-2470	H2470	247	SHADY LN	38.0127349087	-84.5066454622
HLX-2471	H2471	265	ALBANY RD	38.0078858974	-84.5096423255
HLX-2472	H2472	1318	VERSAILLES RD	38.0496453217	-84.5238953875
HLX-2473	H2473	1318	VERSAILLES RD	38.0496806911	-84.5234022591
HLX-2474	H2474	638	LONGVIEW DR	38.0218897056	-84.5376443544
HLX-2475	H2475	268	MOCKINGBIRD LN	38.0275252161	-84.519734516
HLX-2476	H2476	2220	CLAYS MILL RD	38.019608957	-84.5343722617
HLX-2477	H2477	1479	TOWNLEY DR	38.0686745208	-84.5189656614
HLX-2478	H2478	1456	MEADOWTHORPE AVE	38.0667525332	-84.5198833722
HLX-2479	H2479	1426	N LIMESTONE	38.0636429421	-84.4722967927
HLX-2480	H2480	1389	W MAIN ST	38.0636657076	-84.5203517197
HLX-2481	H2481	1499	LEESTOWN RD	38.0656861149	-84.5232595932
HLX-2483	H2483	918	CELIA LN	38.0395691727	-84.5391697288
HLX-2484	H2484	1774	NORMANDY RD	38.0362080108	-84.5405300387
HLX-2486	H2486	175	JESSELIN DR	38.0097372722	-84.5118452533
HLX-2487	H2487	204	E LOWRY LN	38.0044914114	-84.5141214154
HLX-2488	H2488	304	E LOWRY LN	38.0025359603	-84.5081397773
HLX-2489	H2489	505	NORTHSIDE DR	38.06239	-84.44947
HLX-2490	H2490	504	ST ANTHONY DR	38.0621082514	-84.4511873833
HLX-2494	H2494	441	FAIRFIELD DR	38.0141461513	-84.5328681208
HLX-2495	H2495	2562	SOUTHVIEW DR	38.0115700978	-84.5337683845
HLX-2496	H2496	560	CLAYMONT DR	38.012963567	-84.5363563419
HLX-2497	H2497	262	CLEARVIEW DR	38.0097646686	-84.5294426578
HLX-2498	H2498	285	HILL-N-DALE RD	38.0093354605	-84.5310790864
HLX-2499	H2499	950	CELIA LN	38.0406959151	-84.5408587017

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2500	H2500	955	DELLA DR	38.0370715271	-84.5429418194
HLX-2502	H2502	898	MAYWICK DR	38.0316918553	-84.5438916396
HLX-2503	H2503	263	ZANDALE DR	38.0059005392	-84.5109778895
HLX-2511	H2511	978	CELIA LN	38.0417239405	-84.5426870518
HLX-2512	H2512	981	DELLA DR	38.037778145	-84.5448826996
HLX-2513	H2513	440	LIN WAL RD	38.0740346829	-84.463226135
HLX-2514	H2514	585	LAMONT DR	38.0102846997	-84.537537737
HLX-2515	H2515	1202	INDUSTRY RD	38.0486057529	-84.4576310644
HLX-2516	H2516	566	SEATTLE DR	38.0118823052	-84.5406953206
HLX-2517	H2517	1928	APPOMATTOX RD	38.0358944805	-84.548779948
HLX-2518	H2518	956	MAYWICK DR	38.0326368807	-84.5478290103
HLX-2519	H2519	648	SPRINGRIDGE DR	38.0225939875	-84.5364715383
HLX-2520	H2520	674	SPRINGHURST DR	38.0238154499	-84.5367126488
HLX-2521	H2521	1642	DUNTREATH DR	38.0445174444	-84.5389345867
HLX-2522	H2522	914	WOLF RUN DR	38.0414871234	-84.5372342133
HLX-2524	H2524	1936	ALEXANDRIA DR	38.0327943149	-84.549348913
HLX-2525	H2525	461	PASADENA DR	38.0092823414	-84.5330625099
HLX-2526	H2526	2801	SOUTHVIEW DR	38.0092976701	-84.535558673
HLX-2527	H2527	1026	DELLA DR	38.039986063	-84.5472127238
HLX-2528	H2528	1020	CELIA LN	38.0423252698	-84.5462848198
HLX-2529	H2529	705	SHERIDAN DR	38.0209740058	-84.5416923068
HLX-2530	H2530	674	SHERIDAN DR	38.02113216	-84.5392855998
HLX-2536	H2536	359	GREENBRIAR RD	38.0050711213	-84.505637724
HLX-2537	H2537	608	CECIL WAY	38.0100223709	-84.5422561794
HLX-2538	H2538	639	PASADENA DR	38.0144935941	-84.5446172017
HLX-2539	H2539	305	BLUEBERRY RD	38.0093275495	-84.5069619171
HLX-2540	H2540	329	ZANDALE DR	38.0031879622	-84.5053460761
HLX-2541	H2541	1	LANSDOWNE ESTATES	37.9996627467	-84.5022830006
HLX-2542	H2542	649	E NEW CIRCLE RD	38.0502434438	-84.4552356106
HLX-2543	H2543	667	E NEW CIRCLE RD	38.0498926604	-84.4548642785
HLX-2544	H2544	1050	RUSSELL CAVE RD	38.0650670012	-84.4840246625
HLX-2546	H2546	639	SEATTLE DR	38.0125221185	-84.5458808025
HLX-2547	H2547	125	E LOWRY LN	38.0053701887	-84.5170394174
HLX-2548	H2548	763	SHERWOOD DR	38.0025207704	-84.502044904

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2549	H2549	799	ROBIN RD	38.0028888831	-84.4996169931
HLX-2550	H2550	1929	VICKSBURG RD	38.0344622265	-84.5446864213
HLX-2552	H2552	1856	TRAVELLER RD	38.0345123203	-84.5534384565
HLX-2555	H2555	798	MASON HEADLEY RD	38.0377458801	-84.5330071045
HLX-2556	H2556	856	CELIA LN	38.0384741944	-84.5368504935
HLX-2557	H2557	311	LAFAYETTE PKY	38.0267017831	-84.5265693819
HLX-2558	H2558	471	SPRINGHILL DR	38.0270160744	-84.5237808801
HLX-2559	H2559	411	SPRINGHILL DR	38.025333024	-84.5211901038
HLX-2560	H2560	644	WICHITA DR	38.0168947124	-84.5462071595
HLX-2561	H2561	60	WICHITA DR	38.014492955	-84.5415990051
HLX-2562	H2562	415	E NEW CIRCLE RD	38.0567807176	-84.4614534885
HLX-2563	H2563	590	ALBANY RD	38.0049351492	-84.5025905335
HLX-2564	H2564	844	LAUREL HILL RD	38.0350953106	-84.5361750942
HLX-2565	H2565	479	WESTERFIELD WAY	38.0052115425	-84.5357612332
HLX-2566	H2566	654	HILL-N-DALE RD	38.0164782285	-84.5423809248
HLX-2567	H2567	230	TULSA RD	38.0197361441	-84.5427015641
HLX-2568	H2568	3257	LANSDOWNE DR	37.9987471854	-84.4993526638
HLX-2569	H2569	701	BROOKHILL DR	37.9978307108	-84.5058920056
HLX-2570	H2570	802	CHERYL LN	38.0321433016	-84.5356477885
HLX-2571	H2571	2933	SOUTHVIEW DR	38.0036059118	-84.5395053089
HLX-2572	H2572	998	E NEW CIRCLE RD	38.0386580202	-84.4546609583
HLX-2573	H2573	1757	TRAVELLER RD	38.0378478184	-84.554599008
HLX-2574	H2574	622	NAKOMI DR	38.0096705122	-84.5443187409
HLX-2583	H2583	2401	MAPLEWOOD DR	38.0124878374	-84.5294714308
HLX-2584	H2584	552	JUDY LN	38.0810997194	-84.4558182786
HLX-2585	H2585	534	PARKSIDE DR	38.0824124036	-84.4537428594
HLX-2586	H2586	132	GREENBRIAR RD	38.0083183748	-84.5135749154
HLX-2587	H2587	1073	LANE ALLEN RD	38.0347141469	-84.5571409995
HLX-2588	H2588	1817	WILLIAMSBURG RD	38.0377672959	-84.5600726685
HLX-2589	H2589	60	FREEMAN DR	38.0842739864	-84.4575412374
HLX-2590	H2590	2301	CABOT DR	38.0864086879	-84.4579479649
HLX-2591	H2591	2318	ALLEN DR	38.0860741357	-84.4548585742
HLX-2592	H2592	566	PARKSIDE DR	38.0845136771	-84.4561972194
HLX-2594	H2594	3053	BRECKENWOOD DR	38.0049769808	-84.4992014298

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2595	H2595	113	BRIGADOON PKY	37.9897361525	-84.522129403
HLX-2596	H2596	2917	WACO RD	38.0105414949	-84.5474278909
HLX-2597	H2597	1852	ENDON DR	38.0567219961	-84.4440548274
HLX-2599	H2599	672	WELLINGTON WAY	37.99900948	-84.54027941
HLX-2600	H2600	3152	CHATHAM DR	38.0040902031	-84.551710742
HLX-2601	H2601	625	BUCKINGHAM LN	38.004789343	-84.5473834836
HLX-2602	H2602	429	MALABU DR	37.9955680316	-84.5086523111
HLX-2603	H2603	3169	HYDE PARK DR	38.0042247192	-84.5551174015
HLX-2604	H2604	240	YUMA CT	38.0152978552	-84.5392066469
HLX-2605	H2605	1176	LANE ALLEN RD	38.0368150782	-84.5631267599
HLX-2606	H2606	501	SOUTHLAND DR	38.0204822185	-84.5282581536
HLX-2607	H2607	443	SOUTHLAND DR	38.019120273	-84.527400196
HLX-2608	H2608	3325	LANSLOWNE DR	37.9973142591	-84.5031580666
HLX-2610	H2610	769	REBECCA DR	38.0073556398	-84.5006416322
HLX-2611	H2611	304	ARROWHEAD DR	38.0106690127	-84.5562218496
HLX-2612	H2612	805	TOMAHAWK TRL	38.0089885305	-84.5508479057
HLX-2613	H2613	305	MALABU DR	37.9989741777	-84.5124866055
HLX-2614	H2614	114	WILSON DOWNING RD	37.9860741368	-84.5254823486
HLX-2615	H2615	798	HILDEEN DR	38.0007243802	-84.4992722368
HLX-2616	H2616	102	BIRCH DR	38.0896061648	-84.5105249526
HLX-2617	H2617	1045	HUDSON AVE	38.0895505035	-84.5079127596
HLX-2618	H2618	1967	MARK AVE	38.0890114874	-84.5062612105
HLX-2619	H2619	1992	CATHY LN	38.0906677046	-84.5057123713
HLX-2620	H2620	1999	KNIGHT LN	38.0909867177	-84.5043728323
HLX-2621	H2621	1963	KNIGHT LN	38.0893047921	-84.504227431
HLX-2622	H2622	1543	PARKERS MILL RD	38.044658571	-84.5541332522
HLX-2623	H2623	339	SIERRA DR	38.0652906867	-84.4537118128
HLX-2624	H2624	741	SEATTLE DR	38.0150947528	-84.5486813228
HLX-2625	H2625	3212	SAXON DR	37.9996314929	-84.5503942053
HLX-2626	H2626	3228	CORNWALL DR	37.9992734838	-84.5543928285
HLX-2629	H2629	1506	PORT ROYAL DR	38.044707378	-84.5472017751
HLX-2630	H2630	239	ABERDEEN DR	37.9856078831	-84.5181195822
HLX-2631	H2631	123	DUNDEE DR	37.9861707237	-84.5227428661
HLX-2632	H2632	218	WILSON DOWNING RD	37.9836801191	-84.5192954123

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2633	H2633	345	HARVARD DR	37.9784687661	-84.5191863667
HLX-2634	H2634	237	LEAWOOD DR	37.9971592518	-84.5147127853
HLX-2635	H2635	601	ST ANTHONY DR	38.0590505677	-84.4477351505
HLX-2636	H2636	133	ZANDALE DR	38.0079454522	-84.515977288
HLX-2637	H2637	1721	MAYWICK VIEW LN	38.0394551816	-84.5513553119
HLX-2638	H2638	1866	PARKERS MILL RD	38.038626096	-84.5608463407
HLX-2639	H2639	728	KIRKLAND DR	37.9942904356	-84.5033678322
HLX-2640	H2640	1644	LINSTEAD DR	38.0392376325	-84.5565211242
HLX-2641	H2641	132	VANDERBILT DR	37.9833748238	-84.5219992577
HLX-2642	H2642	1295	CROSS KEYS RD	38.0430361278	-84.5565013766
HLX-2643	H2643	729	CUMBERLAND RD	37.9999281827	-84.55736786
HLX-2644	H2644	3364	CLOVERDALE DR	37.9944953038	-84.5054093139
HLX-2645	H2645	1723	SILVER LN	38.0769132218	-84.4691519571
HLX-2646	H2646	1141	LANE ALLEN RD	38.0357919642	-84.5603717123
HLX-2647	H2647	1908	WILLIAMSBURG RD	38.035607655	-84.5626417855
HLX-2648	H2648	1940	WILLIAMSBURG RD	38.0342349606	-84.5649791507
HLX-2649	H2649	2923	EDINBURGH DR	37.9877432576	-84.5205202634
HLX-2650	H2650	3419	THISTLETON DR	37.994890887	-84.5127309985
HLX-2651	H2651	320	LEAWOOD DR	37.9959203608	-84.5113017798
HLX-2652	H2652	181	LISLE INDUSTRIAL AVE	38.0640952495	-84.5244689654
HLX-2653	H2653	195	LISLE INDUSTRIAL AVE	38.0628417234	-84.5250422522
HLX-2654	H2654	202	LISLE INDUSTRIAL AVE	38.0618017698	-84.5254896995
HLX-2655	H2655	238	LISLE INDUSTRIAL AVE	38.0607760379	-84.5259700386
HLX-2656	H2656	375	LISLE INDUSTRIAL AVE	38.0600186059	-84.5241432974
HLX-2657	H2657	136	S FORBES RD	38.0626258584	-84.5216344878
HLX-2659	H2659	3036	STANFORD DR	37.9810779637	-84.523295285
HLX-2660	H2660	30	PURDUE PL	37.9802144815	-84.521150489
HLX-2661	H2661	799	COTTAGE GROVE LN	38.0150223995	-84.4955215279
HLX-2662	H2662	1032	CROSS KEYS RD	38.0392141208	-84.5486933423
HLX-2663	H2663	309	WILSON DOWNING RD	37.982578426	-84.5170389808
HLX-2664	H2664	334	WILSON DOWNING RD	37.981282992	-84.5146410117
HLX-2665	H2665	3552	LANSDOWNE DR	37.9852952055	-84.517123674
HLX-2666	H2666	3539	BROOKVIEW DR	37.9853661169	-84.5157116679
HLX-2667	H2667	317	STONEBROOK DR	37.9834394575	-84.5160786997

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2673	H2673	402	YALE DR	37.9814505181	-84.5175947101
HLX-2674	H2674	3424	LANSLOWNE DR	37.9940510554	-84.5108205199
HLX-2675	H2675	2038	WILLIAMSBURG RD	38.0321642669	-84.5632357705
HLX-2676	H2676	3196	ROXBURG DR	38.0012748721	-84.5594727385
HLX-2677	H2677	50	ANDREA DR	38.0040461243	-84.5412732913
HLX-2678	H2678	829	SURREY LN	37.998928164	-84.5600181929
HLX-2679	H2679	3163	ROXBURG DR	37.999917488	-84.5612740897
HLX-2680	H2680	767	CINDY BLAIR WAY	37.9978328756	-84.5622148244
HLX-2681	H2681	3279	ROXBURG DR	37.9974480592	-84.5591482239
HLX-2682	H2682	3521	ROCKY HILL TER	37.9857689018	-84.5140781561
HLX-2683	H2683	3544	GREENLAWN DR	37.9832546519	-84.5134336634
HLX-2684	H2684	761	MALABU DR	37.9929173693	-84.5039088534
HLX-2685	H2685	719	HAVERHILL DR	37.9981444217	-84.5565067781
HLX-2687	H2687	3273	SAXON DR	37.9968249337	-84.5539005427
HLX-2688	H2688	3479	GREENLAWN DR	37.9858016349	-84.5122397099
HLX-2689	H2689	3424	GREENLAWN DR	37.9878426466	-84.5136583895
HLX-2690	H2690	701	MONTICELLO BLVD	37.9939584682	-84.5503191196
HLX-2691	H2691	610	MONTICELLO BLVD	37.99230981	-84.5474069925
HLX-2693	H2693	663	HALIFAX DR	37.9923532786	-84.5494193625
HLX-2694	H2694	607	HALIFAX DR	37.9909430112	-84.5468475029
HLX-2695	H2695	644	CINDY BLAIR WAY	37.9945504081	-84.5537290166
HLX-2696	H2696	3363	KEITHSHIRE WAY	37.9959130755	-84.5510027213
HLX-2697	H2697	3315	BROOKHILL CIR	37.9965323422	-84.5000062879
HLX-2698	H2698	3332	OVERBROOK DR	37.9942224913	-84.498877517
HLX-2699	H2699	813	CHINOE RD	38.0082242598	-84.4849634029
HLX-2700	H2700	1100	THE LANE	38.0435826118	-84.5480092123
HLX-2701	H2701	205	ABERDEEN DR	37.98773107	-84.5175513134
HLX-2702	H2702	3522	LANSLOWNE DR	37.9867636008	-84.5160145735
HLX-2703	H2703	774	BRAVINGTON WAY	37.9961884055	-84.5630257129
HLX-2704	H2704	3290	ROXBURG DR	37.9958495063	-84.5589749155
HLX-2705	H2705	3296	CORNWALL DR	37.9951135014	-84.5570408185
HLX-2706	H2706	555	MONTICELLO BLVD	37.9909808231	-84.5447553706
HLX-2707	H2707	3415	SAYBROOK RD	37.9899112028	-84.5454091151
HLX-2708	H2708	340	CORNWALL DR	37.9937387125	-84.5586338612

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2709	H2709	3465	LANNETTE LN	37.9945898896	-84.5637759292
HLX-2710	H2710	3413	STILLWATER RD	37.9895117441	-84.5434952472
HLX-2711	H2711	3453	BOSTON RD	37.987725862	-84.5451558629
HLX-2712	H2712	3420	KEITHSHIRE WAY	37.9936566471	-84.5552165548
HLX-2713	H2713	247	E TIVERTON WAY	37.9773788158	-84.5191339105
HLX-2714	H2714	20	E TIVERTON WAY	37.9783329897	-84.5216443289
HLX-2715	H2715	141	E TIVERTON WAY	37.9795112462	-84.5251167621
HLX-2716	H2716	3828	WALHAMPTON DR	37.9773126176	-84.5239539433
HLX-2717	H2717	279	TANGLEY WAY	37.9753628687	-84.5232780185
HLX-2718	H2718	265	KENLOCK DR	37.9765029697	-84.5230479429
HLX-2719	H2719	3818	HABERSHAM DR	37.9768124883	-84.5208875503
HLX-2720	H2720	342	TANGLEY WAY	37.9755135841	-84.5206364892
HLX-2721	H2721	791	CINDY BLAIR WAY	37.9985349662	-84.5642937442
HLX-2722	H2722	819	MALABU DR	37.9922065843	-84.5005222748
HLX-2723	H2723	848	MALABU DR	37.9918870789	-84.497616551
HLX-2724	H2724	1133	UNITY DR	38.0398829631	-84.5241019138
HLX-2728	H2728	1625	FRANKFORT PIKE	38.0603529795	-84.5375806199
HLX-2729	H2729	1631	FRANKFORT PIKE	38.0599891021	-84.5368829262
HLX-2732	H2732	3457	KEITHSHIRE WAY	37.9922656074	-84.5581635221
HLX-2733	H2733	121	TORONTO RD	37.9739882515	-84.5295915517
HLX-2734	H2734	192	TORONTO RD	37.9726763885	-84.5265940892
HLX-2735	H2735	136	NORTHBAY DR	37.9717670649	-84.5277484711
HLX-2736	H2736	165	QUEBEC WAY	37.9707989256	-84.5282064349
HLX-2737	H2737	680	LONGWOOD RD	37.98979595	-84.5651694184
HLX-2738	H2738	3540	CORNWALL DR	37.9915842794	-84.5651450183
HLX-2739	H2739	680	SHASTA CIR	37.9905482951	-84.5626104487
HLX-2741	H2741	829	CAHABA RD	37.9933904004	-84.5003201701
HLX-2742	H2742	132	MANITOBA LN	37.971600397	-84.5297789771
HLX-2743	H2743	164	MANITOBA LN	37.9701601682	-84.5290946639
HLX-2744	H2744	4032	FOX E BASIN RD	37.969892	-84.5301121048
HLX-2745	H2745	1264	E NEW CIRCLE RD	38.0301011327	-84.4528001683
HLX-2746	H2746	2035	LIBERTY RD	38.0295664676	-84.4535945269
HLX-2747	H2747	3477	ALDRSHOT DR	37.9900890682	-84.5570247881
HLX-2748	H2748	593	CROMWELL WAY	37.9876101576	-84.5546453027

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2749	H2749	627	CROMWELL WAY	37.9890778382	-84.5575841483
HLX-2750	H2750	632	CARDIFF LN	37.9896398677	-84.5551280268
HLX-2751	H2751	237	OSAGE CT	38.0157887417	-84.4512960193
HLX-2752	H2752	3821	WINCHESTER RD	38.0324917183	-84.3713526227
HLX-2753	H2753	4092	WINCHESTER RD	38.0317765684	-84.3684958885
HLX-2754	H2754	405	ELORA LN	37.9689891267	-84.5238285789
HLX-2755	H2755	4125	VICTORIA WAY	37.9691243871	-84.522126911
HLX-2756	H2756	4065	VICTORIA WAY	37.9704388963	-84.5242945521
HLX-2757	H2757	4021	VICTORIA WAY	37.9723990299	-84.5243127313
HLX-2758	H2758	4070	WINNEPEG WAY	37.9703913272	-84.5263009007
HLX-2759	H2759	430	WINCHESTER RD	38.0411	-84.47777
HLX-2760	H2760	2366	WALNUT GROVE LN	38.0161337435	-84.3811859519
HLX-2761	H2761	3701	CAYMAN LN	38.0211468797	-84.3749319609
HLX-2763	H2763	3994	NORTHAMPTON DR	37.9745010953	-84.5146006711
HLX-2764	H2764	3958	NORTHAMPTON DR	37.9738731755	-84.5165492921
HLX-2765	H2765	3887	NORTHAMPTON DR	37.9741175551	-84.5195385916
HLX-2766	H2766	3836	WEM DR	37.9753024363	-84.5185688764
HLX-2767	H2767	361	CHAMBERLAIN DR	37.9746005086	-84.5166852871
HLX-2768	H2768	337	E TIVERTON WAY	37.975704596	-84.5161142883
HLX-2769	H2769	273	BIG RUN RD	38.0001062908	-84.5298399539
HLX-2770	H2770	220	BIG RUN RD	37.9995508972	-84.528277939
HLX-2771	H2771	1733	HARRODSBURG RD	38.031295705	-84.528578173
HLX-2772	H2772	750	SHAKER DR	38.0321279671	-84.5300666419
HLX-2773	H2773	0	E NEW CIRCLE RD	38.0184565021	-84.4552188274
HLX-2774	H2774	1938	STANTON WAY	38.1021098068	-84.4833264614
HLX-2775	H2775	1931	STANTON WAY	38.101630362	-84.4821094993
HLX-2776	H2776	913	NANDINO BLVD	38.0769237448	-84.4985563675
HLX-2777	H2777	613	HOLLOW CREEK RD	38.0780924134	-84.4829714256
HLX-2778	H2778	1550	ASTAIRE DR	38.0773673748	-84.4847359432
HLX-2779	H2779	642	HOLLOW CREEK RD	38.079184921	-84.4838528076
HLX-2780	H2780	261	MIDLAND AVE	38.042108344	-84.483667982
HLX-2781	H2781	250	LEWIS ST	38.0428889838	-84.4839167327
HLX-2782	H2782	135	RACE ST	38.0420242074	-84.4895168059
HLX-2783	H2783	508	CROMWELL WAY	37.9855025515	-84.5487415782

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2784	H2784	948	HIGBEE MILL RD	37.9841927529	-84.5538498696
HLX-2785	H2785	3431	PIMLICO PKY	37.9852725841	-84.4759682378
HLX-2786	H2786	3463	PIMLICO PKY	37.9842088337	-84.4747689662
HLX-2787	H2787	3475	PIMLICO PKY	37.9837197481	-84.4732830171
HLX-2788	H2788	3505	PIMLICO PKY	37.9832612764	-84.4716215453
HLX-2789	H2789	3501	PIMLICO PKY	37.9822836004	-84.4704402238
HLX-2790	H2790	3550	PIMLICO PKY	37.9809926079	-84.4708474769
HLX-2791	H2791	3573	PIMLICO PKY	37.9798070056	-84.471729194
HLX-2792	H2792	3216	KIRKLEVINGTON DR	37.9862281374	-84.4997811324
HLX-2793	H2793	401	REDDING RD	37.9868615949	-84.501453146
HLX-2794	H2794	396	REDDING RD	37.9877084912	-84.5031186665
HLX-2796	H2796	1301	CANONERO DR	37.981133825	-84.4758721441
HLX-2797	H2797	1324	CANONERO DR	37.9810912633	-84.4743925766
HLX-2798	H2798	3540	BOLD BIDDER DR	37.9813976563	-84.4733036963
HLX-2799	H2799	350	BOLD BIDDER DR	37.9826360464	-84.4748475284
HLX-2800	H2800	1316	PERSONALITY CT	37.9798840726	-84.4739522683
HLX-2801	H2801	34	RICHMOND AVE	38.0347503266	-84.478950941
HLX-2802	H2802	17	RICHMOND AVE	38.0339670224	-84.4800933007
HLX-2803	H2803	121	OWSLEY AVE	38.0329503839	-84.4788287602
HLX-2804	H2804	205	OWSLEY AVE	38.0341909671	-84.4770042271
HLX-2805	H2805	227	OWSLEY AVE	38.0351251562	-84.4756572366
HLX-2806	H2806	128	LINCOLN AVE	38.0319532398	-84.4783820694
HLX-2807	H2807	1313	RICHMOND RD	38.0304054728	-84.4792749364
HLX-2808	H2808	179	BASSETT AVE	38.0320252927	-84.4755653245
HLX-2809	H2809	252	PRESTON AVE	38.0336999747	-84.4739423042
HLX-2810	H2810	284	BASSETT AVE	38.033660234	-84.4720943466
HLX-2811	H2811	329	MEMORY LN	38.0376698778	-84.4762267882
HLX-2812	H2812	311	RICHMOND AVE	38.0370272927	-84.4756103984
HLX-2813	H2813	336	RICHMOND AVE	38.0379488376	-84.474196098
HLX-2814	H2814	323	OWSLEY AVE	38.0364672537	-84.4737054562
HLX-2815	H2815	320	LINCOLN AVE	38.0357895473	-84.4727963557
HLX-2816	H2816	284	LINCOLN AVE	38.0351138256	-84.473612874
HLX-2817	H2817	273	PRESTON AVE	38.0345336238	-84.473037141
HLX-2818	H2818	264	SHERMAN AVE	38.0321671701	-84.4726085764

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2819	H2819	181	SHERMAN AVE	38.0310789701	-84.4745101257
HLX-2820	H2820	128	SHERMAN AVE	38.0296492995	-84.4761971564
HLX-2821	H2821	332	PRESTON AVE	38.0353082765	-84.4716399508
HLX-2822	H2822	327	BASSETT AVE	38.0345649654	-84.471076974
HLX-2823	H2823	336	SHERMAN AVE	38.0339356282	-84.47006684
HLX-2824	H2824	441	HENRY CLAY BLVD	38.0344134799	-84.4679633979
HLX-2825	H2825	298	SHERMAN AVE	38.0329587147	-84.4713218556
HLX-2826	H2826	401	KINGSWOOD DR	38.0317023706	-84.469944838
HLX-2827	H2827	414	KINGSWOOD DR	38.032664969	-84.4685518133
HLX-2828	H2828	1719	CAROLYN DR	38.0337558603	-84.4656259007
HLX-2829	H2829	339	QUEENSWAY DR	38.0300943292	-84.4705474243
HLX-2830	H2830	415	HOLIDAY RD	38.0314197833	-84.4668799273
HLX-2831	H2831	103	LIBERTY RD	38.0406971128	-84.4683947249
HLX-2832	H2832	1043	LIBERTY RD	38.0396298641	-84.4671406597
HLX-2833	H2833	130	PRESTON AVE	38.0311741413	-84.4776906621
HLX-2834	H2834	252	LINCOLN AVE	38.0343572933	-84.4748572221
HLX-2835	H2835	417	QUEENSWAY DR	38.032029986	-84.4678112467
HLX-2836	H2836	976	DELAWARE AVE	38.0387105881	-84.4707791258
HLX-2837	H2837	601	LAGONDA AVE	38.0388057876	-84.4678002207
HLX-2838	H2838	1123	DELAWARE AVE	38.037566602	-84.4691420145
HLX-2839	H2839	601	HENRY CLAY BLVD	38.0364658507	-84.4655928364
HLX-2840	H2840	501	HENRY CLAY BLVD	38.0358297997	-84.4662381538
HLX-2841	H2841	1138	LIBERTY RD	38.0383826064	-84.4650468062
HLX-2842	H2842	725	HENRY CLAY BLVD	38.0378506046	-84.465082994
HLX-2843	H2843	1644	LIBERTY RD	38.0369211675	-84.4634100192
HLX-2844	H2844	963	DETROIT AVE	38.0400846787	-84.4694454861
HLX-2845	H2845	3597	BOLD BIDDER DR	37.9787045561	-84.4728335648
HLX-2846	H2846	1629	LINDY LN	38.0380663297	-84.4628007315
HLX-2847	H2847	1629	WYATT PKY	38.0388699882	-84.4617922917
HLX-2848	H2848	1635	STRADER DR	38.0395950155	-84.4607766582
HLX-2849	H2849	170	WYATT PKY	38.0378488776	-84.4603912334
HLX-2850	H2850	871	HENRY CLAY BLVD	38.0406687185	-84.4624480556
HLX-2851	H2851	132	BROWN AVE	38.0402925758	-84.4585497796
HLX-2852	H2852	108	ASHTON DR	38.0415801989	-84.4580970817

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2853	H2853	130	ASHTON DR	38.0407382335	-84.4568361426
HLX-2854	H2854	144	BROWN AVE	38.0396081283	-84.4576331952
HLX-2855	H2855	1290	INDUSTRY RD	38.0492076165	-84.4563000891
HLX-2856	H2856	660	SHERIDAN DR	38.0208092988	-84.5377214182
HLX-2857	H2857	641	STRATFORD DR	38.0198490902	-84.5371710824
HLX-2858	H2858	637	CARDINAL LN	38.0199196221	-84.5392538839
HLX-2859	H2859	612	CARDINAL LN	38.01889428	-84.5371167335
HLX-2860	H2860	2249	CLAYS MILL RD	38.0183881619	-84.5354350962
HLX-2861	H2861	601	LARAMIE DR	38.0189376351	-84.5399716297
HLX-2862	H2862	2310	TUCSON DR	38.0180295176	-84.5414377566
HLX-2863	H2863	2401	TULSA RD	38.0182878447	-84.5445306139
HLX-2864	H2864	2431	TULSA RD	38.0177758951	-84.5452909642
HLX-2865	H2865	674	HILL-N-DALE RD	38.0166291177	-84.5436770383
HLX-2866	H2866	626	LANE ALLEN RD	38.0256125969	-84.5343697275
HLX-2867	H2867	1839	PERSHING RD	38.0264611819	-84.5327527708
HLX-2868	H2868	608	LANE ALLEN RD	38.0245417883	-84.5333457388
HLX-2869	H2869	1930	CLAYS MILL RD	38.0239875351	-84.5323114492
HLX-2870	H2870	612	MITCHELL AVE	38.0233708342	-84.5337233547
HLX-2871	H2871	674	SPRINGRIDGE DR	38.0232173936	-84.5380170574
HLX-2872	H2872	616	SPRINGRIDGE DR	38.0221646833	-84.5348872074
HLX-2873	H2873	618	LONGVIEW DR	38.0212865709	-84.5360078971
HLX-2874	H2874	656	LONGVIEW DR	38.0224167734	-84.5390208744
HLX-2875	H2875	689	SHERIDAN DR	38.0215690699	-84.5404692793
HLX-2876	H2876	1838	NORMANDY RD	38.0346742412	-84.5416086117
HLX-2877	H2877	1858	NORMANDY RD	38.033337213	-84.5417839422
HLX-2878	H2878	1817	BEACON HILL RD	38.0338337891	-84.5406301155
HLX-2879	H2879	880	LYNN RD	38.0329244729	-84.5389165638
HLX-2880	H2880	1793	BEACON HILL RD	38.0347136374	-84.5401514599
HLX-2881	H2881	854	CHERYL LN	38.0334519983	-84.5378555008
HLX-2882	H2882	860	DELLA DR	38.0343425784	-84.5372661529
HLX-2883	H2883	865	FURLONG DR	38.0322167178	-84.5395903272
HLX-2884	H2884	913	HOLLY SPRINGS DR	38.033619524	-84.543442066
HLX-2885	H2885	882	MAYWICK DR	38.0314052425	-84.5420127916
HLX-2886	H2886	787	ALLENDAL DR	38.0293516501	-84.5368429629

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2887	H2887	759	ALLENDALE DR	38.0285428497	-84.5357724289
HLX-2889	H2889	70	LYNN RD	38.0285718135	-84.5320470337
HLX-2890	H2890	1883	HARRODSBURG RD	38.0292022723	-84.5310731737
HLX-2891	H2891	1618	CLAYS MILL RD	38.0291347014	-84.5292690907
HLX-2892	H2892	522	WOODBINE DR	38.0271875698	-84.5279666925
HLX-2893	H2893	1824	CLAYS MILL RD	38.02694616	-84.5305247854
HLX-2894	H2894	1848	CLAYS MILL RD	38.0259214194	-84.5309702914
HLX-2895	H2895	524	RIDGE RD	38.0297580951	-84.5264382845
HLX-2896	H2896	518	SPRINGHILL DR	38.0290339312	-84.5272560425
HLX-2897	H2897	497	SPRINGHILL DR	38.0280833223	-84.525393516
HLX-2898	H2898	462	BOB-O-LINK DR	38.0279519457	-84.5218244168
HLX-2899	H2899	397	SPRINGHILL DR	38.0248655904	-84.5205677797
HLX-2900	H2900	198	REED RD	38.0233235536	-84.5216855058
HLX-2901	H2901	230	REED LN	38.0240242622	-84.5234061129
HLX-2902	H2902	242	E VISTA ST	38.0249072486	-84.5253188795
HLX-2903	H2903	518	REED LN	38.0264137051	-84.5284292162
HLX-2904	H2904	299	LAFAYETTE PKY	38.0258027154	-84.5272505079
HLX-2906	H2906	450	LONGVIEW DR	38.0186375559	-84.5285104823
HLX-2907	H2907	482	SHERIDAN DR	38.0179471587	-84.5301365542
HLX-2908	H2908	475	STRATFORD DR	38.0170884502	-84.5303113637
HLX-2909	H2909	137	CHERRYBARK DR	38.01838522	-84.5257241176
HLX-2910	H2910	274	ROSEMONT GDN	38.0202798339	-84.5246904387
HLX-2911	H2911	206	PIN OAK DR	38.021753895	-84.5229197812
HLX-2912	H2912	226	PIN OAK DR	38.0224366772	-84.522364175
HLX-2914	H2914	126	ELAM PK	38.017500051	-84.5229895776
HLX-2915	H2915	1702	BEACON HILL RD	38.0388574356	-84.5377692257
HLX-2916	H2916	1737	BEACON HILL RD	38.037244837	-84.5387408183
HLX-2917	H2917	1773	BEACON HILL RD	38.0356986925	-84.5396153085
HLX-2918	H2918	848	MASON HEADLEY RD	38.0387943443	-84.5350080883
HLX-2919	H2919	828	CELIA LN	38.0377362366	-84.535353001
HLX-2920	H2920	1725	ROSECRANS DR	38.0366506382	-84.5365017522
HLX-2921	H2921	1716	ALBEMARLE RD	38.0373595631	-84.537286551
HLX-2922	H2922	868	LAUREL HILL RD	38.0355572478	-84.537384108
HLX-2923	H2923	1720	HATTERAS DR	38.0363691228	-84.5353779535

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2924	H2924	1741	COLD HARBOR DR	38.0356478127	-84.5344004778
HLX-2925	H2925	750	DELLA DR	38.0314864931	-84.5326402398
HLX-2926	H2926	722	DELLA DR	38.0307123929	-84.5314343476
HLX-2928	H2928	2120	CLAYS MILL RD	38.0206160669	-84.5338833446
HLX-2929	H2929	2058	CLAYS MILL RD	38.0216575333	-84.5333110558
HLX-2930	H2930	498	ROSEMILL DR	38.0203154171	-84.5297576358
HLX-2931	H2931	525	SOUTHLAND DR	38.0213841637	-84.5289005344
HLX-2932	H2932	50	ROSEMONT GDN	38.0223938245	-84.5290455323
HLX-2933	H2933	527	ROSEMONT GDN	38.0231153266	-84.5304018087
HLX-2934	H2934	531	SOUTHBEND DR	38.0256102963	-84.529557422
HLX-2935	H2935	942	MASON HEADLEY RD	38.0414503776	-84.5397646247
HLX-2936	H2936	106	CELIA LN	38.0416388342	-84.5446520859
HLX-2937	H2937	725	ADDISON AVE	38.03819079	-84.52410738
HLX-2938	H2938	627	ADDISON AVE	38.0401839402	-84.5267760232
HLX-2939	H2939	601	ADDISON AVE	38.0392006223	-84.5247462879
HLX-2940	H2940	430	PYKE RD	38.038077386	-84.5202425815
HLX-2941	H2941	320	BURLEY AVE	38.0352162756	-84.5182363084
HLX-2942	H2942	322	AMERICAN AVE	38.0343159745	-84.5185188834
HLX-2943	H2943	1216	S BROADWAY	38.0356954441	-84.5199036121
HLX-2944	H2944	180	MASON HEADLEY RD	38.0434461389	-84.5420420372
HLX-2945	H2945	190	APPOMATTOX RD	38.0369509203	-84.5470328873
HLX-2946	H2946	969	HOLLY SPRINGS DR	38.0360177225	-84.5454900443
HLX-2947	H2947	977	STONEWALL RD	38.0355561745	-84.5466977232
HLX-2948	H2948	980	FREDERICKSBURG RD	38.0342361641	-84.5476439052
HLX-2949	H2949	1962	VICKSBURG RD	38.0332595342	-84.5457706394
HLX-2950	H2950	912	MAYWICK DR	38.0318601252	-84.5452873323
HLX-2951	H2951	149	BURLEY AVE	38.0341251662	-84.5170324204
HLX-2952	H2952	108	BURLEY AVE	38.0327347846	-84.515501233
HLX-2953	H2953	136	AMERICAN AVE	38.0323054146	-84.5164453777
HLX-2954	H2954	256	AMERICAN AVE	38.0330395574	-84.5172817424
HLX-2955	H2955	80	LAUREL HILL RD	38.03365	-84.53412
HLX-2956	H2956	80	DELLA DR	38.0328391314	-84.5348111974
HLX-2957	H2957	824	DELLA DR	38.0334897451	-84.5359449225
HLX-2959	H2959	760	CHERYL LN	38.0311257073	-84.5339661037

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2960	H2960	853	LYNN RD	38.0322445126	-84.5377360868
HLX-2961	H2961	816	LYNN RD	38.0312454866	-84.5362864377
HLX-2962	H2962	801	FURLONG DR	38.030640275	-84.5368635514
HLX-2963	H2963	833	FURLONG DR	38.0314986167	-84.5384167942
HLX-2964	H2964	780	LYNN RD	38.0305111949	-84.5349244031
HLX-2965	H2965	2077	CAMBRIDGE DR	38.0531812018	-84.5517207169
HLX-2966	H2966	3417	GINGERTREE CIR	37.9981817308	-84.4861321892
HLX-2967	H2967	3213	PEPPERHILL RD	37.9996717538	-84.4860669509
HLX-2968	H2968	3441	MONTAVESTA RD	37.9987329837	-84.4871190407
HLX-2969	H2969	3417	MONTAVESTA RD	37.9977951069	-84.4880580101
HLX-2970	H2970	3413	BRANDON DR	37.9985981282	-84.4888148417
HLX-2971	H2971	1427	VERSAILLES RD	38.0492035998	-84.5282667415
HLX-2973	H2973	502	GRANTCHESTER ST	38.0721608625	-84.4710903876
HLX-2974	H2974	1716	WOODLARK AVE	38.0719600486	-84.4694154518
HLX-2975	H2975	461	DOVER RD	38.0726173497	-84.467097952
HLX-2976	H2976	401	SOUTHRIDGE DR	38.0717397044	-84.463489132
HLX-2977	H2977	422	SOUTHRIDGE DR	38.0726145125	-84.4650651193
HLX-2978	H2978	425	NORTHRIDGE DR	38.0732498429	-84.4640133942
HLX-2979	H2979	1711	BLUE RIDGE DR	38.0734589499	-84.4659786475
HLX-2980	H2980	1723	BLUE RIDGE DR	38.0741273068	-84.4649998944
HLX-2981	H2981	170	RUSSELL CAVE RD	38.078508351	-84.4710206783
HLX-2982	H2982	521	DOVER RD	38.0736232315	-84.4684161425
HLX-2983	H2983	525	SOUTHRIDGE DR	38.0747941599	-84.4677460182
HLX-2984	H2984	525	THURMAN DR	38.0759577336	-84.467414123
HLX-2985	H2985	1812	BLUE RIDGE DR	38.0756025724	-84.4628464647
HLX-2986	H2986	404	LIN WAL RD	38.0728066985	-84.4618535568
HLX-2987	H2987	125	WINSTON AVE	38.0719600465	-84.4584657485
HLX-2988	H2988	120	BEVERLY AVE	38.0756494643	-84.4526209032
HLX-2989	H2989	168	BEVERLY AVE	38.0743533931	-84.451246983
HLX-2990	H2990	189	BEVERLY AVE	38.0733962314	-84.450079465
HLX-2991	H2991	1133	CLARIDGE DR	38.0371510478	-84.5583216472
HLX-2992	H2992	1824	DARIEN DR	38.036392564	-84.5561634708
HLX-2993	H2993	1125	MERIDIAN DR	38.0363008276	-84.5587100257
HLX-2994	H2994	1836	DARIEN DR	38.0355744827	-84.5566026374

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-2995	H2995	1057	LANE ALLEN RD	38.0342554782	-84.5558657395
HLX-2996	H2996	1029	LANE ALLEN RD	38.0329678041	-84.55207355
HLX-2997	H2997	1037	LANE ALLEN RD	38.0335246391	-84.5536962155
HLX-2998	H2998	1829	TRAVELLER RD	38.035903578	-84.5541714539
HLX-2999	H2999	1882	MANASSAS DR	38.0349241875	-84.5517043774
HLX-3000	H3000	1924	APPOMATTOX RD	38.0353619548	-84.5495218872
HLX-3001	H3001	551	PARKSIDE DR	38.0833968755	-84.4548769178
HLX-3002	H3002	568	JUDY LN	38.0820519905	-84.4569530484
HLX-3003	H3003	549	FREEMAN DR	38.0815620374	-84.4545790185
HLX-3004	H3004	549	PARKSIDE DR	38.0817005167	-84.4528584627
HLX-3005	H3005	520	FREEMAN DR	38.0805979818	-84.4535613611
HLX-3006	H3006	509	JUDY LN	38.0794286829	-84.4545228307
HLX-3007	H3007	419	PARKSIDE DR	38.0873099476	-84.4588043819
HLX-3008	H3008	2238	CIRCLE DR	38.0793622325	-84.4510061734
HLX-3009	H3009	2220	CIRCLE DR	38.0794186588	-84.4524997052
HLX-3010	H3010	2202	CIRCLE DR	38.0785459827	-84.453454008
HLX-3011	H3011	791	REBECCA DR	38.0071464962	-84.4992012501
HLX-3012	H3012	873	REBECCA DR	38.0069210277	-84.4976972412
HLX-3013	H3013	308	SHIRLEE DR	38.0064770251	-84.500583478
HLX-3014	H3014	3027	WINDERMERE RD	38.0053646775	-84.4976660302
HLX-3015	H3015	769	ABBOTT RD	38.0055212586	-84.5014168091
HLX-3016	H3016	730	ALBANY RD	38.0043037348	-84.5011855091
HLX-3017	H3017	798	ALBANY RD	38.0038733941	-84.4992742221
HLX-3018	H3018	872	ALBANY RD	38.0035504343	-84.4974565556
HLX-3020	H3020	770	ROBIN RD	38.0033158765	-84.5012475378
HLX-3021	H3021	1728	WILLIAMSBURG RD	38.0388384291	-84.5587065654
HLX-3022	H3022	1833	WILLIAMSBURG RD	38.0371299763	-84.5610501963
HLX-3023	H3023	1138	ATHENIA DR	38.0344968575	-84.5611623878
HLX-3024	H3024	1680	WILLIAMSBURG RD	38.0424424598	-84.5575773247
HLX-3025	H3025	1695	WILLIAMSBURG RD	38.04093151	-84.5574492627
HLX-3026	H3026	1285	STANDISH WAY	38.0394680857	-84.5636814867
HLX-3027	H3027	1240	CROSS KEYS RD	38.0422151006	-84.5555011878
HLX-3028	H3028	1621	TRAVELLER RD	38.0434277073	-84.5536451625
HLX-3029	H3029	1729	TRAVELLER RD	38.039136821	-84.5544961096

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3030	H3030	1056	DELLA DR	38.0427297899	-84.548048307
HLX-3031	H3031	1728	TARLETON CT	38.0409395831	-84.5466039094
HLX-3032	H3032	1725	SHENANDOAH DR	38.0403394005	-84.5456125377
HLX-3033	H3033	1010	DELLA DR	38.0387782471	-84.5462721284
HLX-3034	H3034	1462	HARRODSBURG RD	38.033075232	-84.5242551008
HLX-3035	H3035	160	HARRODSBURG RD	38.0321609633	-84.5257096044
HLX-3036	H3036	143	STATE ST	38.030578957	-84.5124084826
HLX-3037	H3037	720	SEATTLE DR	38.0134246649	-84.5483888116
HLX-3038	H3038	2809	PHOENIX RD	38.0145633329	-84.5472728543
HLX-3039	H3039	713	PASADENA DR	38.0153968311	-84.5463036467
HLX-3040	H3040	639	PORTLAND DR	38.0135551177	-84.5453329685
HLX-3041	H3041	701	NAKOMI DR	38.0116499187	-84.5466598996
HLX-3042	H3042	635	NAKOMI DR	38.0109953449	-84.5453694563
HLX-3043	H3043	626	WICHITA DR	38.0154865865	-84.5442648213
HLX-3044	H3044	621	PASADENA DR	38.0136807909	-84.5423805125
HLX-3045	H3045	607	PASADENA DR	38.0129036008	-84.5401725415
HLX-3046	H3046	2799	CLAYS MILL RD	38.0124593146	-84.5388710722
HLX-3047	H3047	613	PORTLAND DR	38.0124886598	-84.5425040066
HLX-3048	H3048	607	SEATTLE DR	38.0113055065	-84.5423672219
HLX-3049	H3049	631	CECIL WAY	38.0105683155	-84.5439635021
HLX-3050	H3050	2909	CLAYS MILL RD	38.0087373441	-84.5415653453
HLX-3051	H3051	2830	SOUTHVIEW DR	38.0073296667	-84.5367299647
HLX-3052	H3052	2844	SOUTHVIEW DR	38.0058938007	-84.537560035
HLX-3053	H3053	2917	SOUTHVIEW DR	38.0046510841	-84.5389035679
HLX-3054	H3054	424	KIMBERLY PL	38.0039750051	-84.5362996223
HLX-3055	H3055	485	PASADENA DR	38.0107653803	-84.5348947776
HLX-3056	H3056	370	HILL-N-DALE RD	38.0102923551	-84.5323652286
HLX-3057	H3057	2568	MILLBROOK DR	38.0092930843	-84.528083036
HLX-3058	H3058	226	HILL-N-DALE RD	38.0081592615	-84.5287104437
HLX-3059	H3059	493	LAMONT DR	38.0091186812	-84.5346390991
HLX-3060	H3060	403	WESTERFIELD WAY	38.0048683169	-84.5300990792
HLX-3061	H3061	2032	DELLWOOD DR	38.0060423228	-84.5152774807
HLX-3062	H3062	144	E LOWRY LN	38.0050176169	-84.5159221737
HLX-3063	H3063	2272	NICHOLASVILLE RD	38.0057874994	-84.5183845224

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3064	H3064	291	ZANDALE DR	38.0048103487	-84.5082602279
HLX-3065	H3065	2032	HEATHER WAY	38.0053734362	-84.5122260105
HLX-3066	H3066	279	WINN WAY	38.0044866526	-84.5104704006
HLX-3067	H3067	291	WINN WAY	38.0039779264	-84.5091451763
HLX-3068	H3068	223	E LOWRY LN	38.0038476894	-84.5119691292
HLX-3069	H3069	243	E LOWRY LN	38.0031813466	-84.5099375425
HLX-3070	H3070	316	ZANDALE DR	38.0037679775	-84.5064672589
HLX-3071	H3071	228	GREENBRIAR RD	38.0074020375	-84.5114101911
HLX-3072	H3072	257	GREENBRIAR RD	38.0067441968	-84.5097044521
HLX-3073	H3073	324	GREENBRIAR RD	38.0060834934	-84.5080795345
HLX-3074	H3074	332	ALBANY RD	38.0067959877	-84.5070685687
HLX-3075	H3075	329	JESSELIN DR	38.0076929705	-84.5061633624
HLX-3077	H3077	1945	BELLEFONTE DR	38.0069023866	-84.5042994328
HLX-3078	H3078	501	ALBANY RD	38.0059092058	-84.504754045
HLX-3079	H3079	740	GLENDOVER RD	38.0085428276	-84.5005387993
HLX-3080	H3080	3133	STARLING DR	38.0030251605	-84.5034800794
HLX-3081	H3081	642	TATESWOOD DR	38.0130769092	-84.4983090146
HLX-3082	H3082	747	CHINOE RD	38.0133857137	-84.4841664409
HLX-3083	H3083	767	CHINOE RD	38.0123005167	-84.484415966
HLX-3084	H3084	801	CHINOE RD	38.009651375	-84.4849669189
HLX-3086	H3086	1716	MOORELAND DR	38.0064927104	-84.483378269
HLX-3087	H3087	1711	LAKWOOD LN	38.0078910135	-84.4816807522
HLX-3088	H3088	1764	MOORELAND DR	38.0058382123	-84.4818850992
HLX-3089	H3089	1620	LAKWOOD DR	38.0096958503	-84.4821176209
HLX-3090	H3090	1545	LAKWOOD DR	38.0112569059	-84.4812089373
HLX-3091	H3091	0	MT TABOR RD	38.0053616678	-84.4508218094
HLX-3092	H3092	125	MT TABOR RD	38.0046328325	-84.4518550571
HLX-3093	H3093	694	BETH LN	38.0009259693	-84.5526664075
HLX-3094	H3094	689	BETH LN	38.0005669281	-84.5519037621
HLX-3095	H3095	673	BETH LN	38.0004896017	-84.5500478382
HLX-3096	H3096	656	BETH LN	38.0007600599	-84.5490143984
HLX-3098	H3098	1801	GLENHILL DR	38.0058594584	-84.4793331499
HLX-3099	H3099	1861	GLENHILL DR	38.0050622833	-84.4804138043
HLX-3101	H3101	3429	LANNETTE LN	37.9944185636	-84.5605594566

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3102	H3102	3492	LANNETTE LN	37.9929228078	-84.5645454432
HLX-3103	H3103	712	CROMWELL WAY	37.9927435743	-84.5632284411
HLX-3104	H3104	3420	CORNWALL DR	37.9931556317	-84.5600222317
HLX-3105	H3105	932	BRAVINGTON WAY	37.9965234345	-84.5677936902
HLX-3106	H3106	781	BRAVINGTON WAY	37.9965679524	-84.5643775112
HLX-3107	H3107	750	BRAVINGTON WAY	37.9959109716	-84.5608468213
HLX-3108	H3108	754	CINDY BLAIR WAY	37.9976858837	-84.5606720972
HLX-3109	H3109	3255	ROXBURG DR	37.9987401249	-84.5582809787
HLX-3110	H3110	3212	ROXBURG DR	38.0013105423	-84.558114104
HLX-3113	H3113	3452	ALDRSHOT DR	37.9905873158	-84.5555758783
HLX-3114	H3114	3369	HOLWYN RD	37.9946133186	-84.5487857511
HLX-3116	H3116	3425	HOLWYN RD	37.9932412934	-84.5515779297
HLX-3117	H3117	601	DELZAN PL	37.9962541804	-84.5466833025
HLX-3118	H3118	637	MONTICELLO BLVD	37.993094128	-84.5486244963
HLX-3119	H3119	3402	TISDALE DR	37.9891475134	-84.5496373674
HLX-3120	H3120	3430	WALLINGFORD CT	37.9896796988	-84.5469621746
HLX-3121	H3121	3856	WALHAMPTON DR	37.9759290664	-84.5242174227
HLX-3122	H3122	224	KENLOCK DR	37.9775243975	-84.5225084749
HLX-3123	H3123	161	E TIVERTON WAY	37.9790853179	-84.523564635
HLX-3124	H3124	3076	STANFORD DR	37.9801868907	-84.5237225409
HLX-3125	H3125	3048	DARTMOUTH DR	37.9814000701	-84.5219823865
HLX-3126	H3126	109	VANDERBILT DR	37.9842846854	-84.5246639088
HLX-3127	H3127	127	WILSON DOWNING RD	37.9848008409	-84.5216212601
HLX-3128	H3128	120	WILSON DOWNING RD	37.9854275648	-84.5235977613
HLX-3129	H3129	107	DUNDEE DR	37.9877217981	-84.5236060464
HLX-3130	H3130	2910	BRIGADOON PKY	37.9883193397	-84.5221722203
HLX-3131	H3131	2794	CLAYS MILL RD	38.0110624533	-84.5394013415
HLX-3132	H3132	2920	CLAYS MILL RD	38.0073697224	-84.5421561358
HLX-3133	H3133	521	ANDREA DR	38.0048661792	-84.5434485195
HLX-3134	H3134	109	TAHOMA RD	38.0135732914	-84.5140875911
HLX-3135	H3135	105	EDGEMOOR DR	38.0121047944	-84.515124503
HLX-3136	H3136	110	JESSELIN DR	38.0108176313	-84.5154897481
HLX-3137	H3137	138	JESSELIN DR	38.0102066036	-84.5138289859
HLX-3138	H3138	2217	NICHOLASVILLE RD	38.0083899279	-84.5174817523

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3139	H3139	2034	RAINBOW RD	38.0108070791	-84.5205949277
HLX-3140	H3140	161	ZANDALE DR	38.0071233352	-84.5141119022
HLX-3141	H3141	3327	NANTUCKET DR	37.997388583	-84.5078803717
HLX-3142	H3142	715	BROOKHILL DR	37.9994362591	-84.5053112062
HLX-3143	H3143	3320	BRAEMER DR	37.9982609447	-84.504488158
HLX-3144	H3144	742	BROOKHILL DR	37.9989796632	-84.5032451798
HLX-3145	H3145	808	WESTCHESTER DR	37.9965090525	-84.5024869065
HLX-3146	H3146	755	ZANDALE DR	38.0014529414	-84.5026173266
HLX-3147	H3147	798	SHERWOOD DR	38.0017253335	-84.4993592386
HLX-3148	H3148	837	SHERWOOD DR	38.0009957896	-84.4974590152
HLX-3149	H3149	793	LANSDOWNE CIR	37.9997574759	-84.5012697567
HLX-3150	H3150	80	BROOKHILL DR	37.9976613682	-84.5015625554
HLX-3151	H3151	152	HENTON RD	38.0579130446	-84.5177201544
HLX-3152	H3152	109	THOMPSON RD	38.06012	-84.51712
HLX-3153	H3153	120	MAIN ST	38.0614020769	-84.5174108789
HLX-3154	H3154	1499	TOWNLEY DR	38.0698623394	-84.5191610252
HLX-3155	H3155	291	BURKE RD	38.0701879701	-84.5207066189
HLX-3156	H3156	267	PEPPER DR	38.0687993596	-84.5201983323
HLX-3157	H3157	140	N FORBES RD	38.06467	-84.51955
HLX-3158	H3158	1425	N LIMESTONE	38.0631918569	-84.4729795446
HLX-3159	H3159	116	BLUE GRASS AVE	38.0611549384	-84.4727574272
HLX-3160	H3160	217	LOCUST AVE	38.05944454	-84.4726562868
HLX-3161	H3161	234	BROADVIEW DR	38.0648437088	-84.4739111964
HLX-3162	H3162	119	WITHERS AVE	38.062819713	-84.4770649622
HLX-3163	H3163	134	FAIRLAWN AVE	38.0621517782	-84.4779948658
HLX-3164	H3164	1041	KEES RD	38.063615433	-84.4826497766
HLX-3165	H3165	1029	N BROADWAY	38.0621643112	-84.4810707135
HLX-3166	H3166	220	BLUE GRASS AVE	38.0600187622	-84.4716307171
HLX-3167	H3167	324	BLUE GRASS AVE	38.0589884176	-84.4706524391
HLX-3168	H3168	1640	PARIS RD	38.0665593504	-84.4680972864
HLX-3169	H3169	142	NORTHWOOD DR	38.0649137066	-84.4663868591
HLX-3170	H3170	305	NORTHWOOD DR	38.0635832459	-84.4650262905
HLX-3171	H3171	1759	PARIS RD	38.0702081594	-84.4628119883
HLX-3172	H3172	1677	PARIS RD	38.067858301	-84.4661516065

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3173	H3173	179	WINSTON AVE	38.0694277699	-84.4555123196
HLX-3174	H3174	20	EASTIN RD	38.0664561174	-84.4583121033
HLX-3175	H3175	124	EASTIN RD	38.0679833307	-84.4600920549
HLX-3176	H3176	348	NORTHWOOD DR	38.0623819783	-84.4638209257
HLX-3177	H3177	1680	BRYAN STATION RD	38.0609748491	-84.4625422448
HLX-3178	H3178	312	EASTIN RD	38.064354207	-84.4558863287
HLX-3179	H3179	1766	BRYAN STATION RD	38.0628619055	-84.4564160885
HLX-3180	H3180	315	STRATHMORE RD	38.0636463059	-84.4582310896
HLX-3181	H3181	2312	NANCY LN	38.085017509	-84.4546476435
HLX-3183	H3183	1625	KENSINGTON WAY	38.039737629	-84.5780960855
HLX-3184	H3184	1613	KENSINGTON WAY	38.041272036	-84.5779508324
HLX-3185	H3185	4109	HERALDRY CT	38.0414666503	-84.5759005984
HLX-3186	H3186	987	MASON HEADLEY RD	38.0460566765	-84.5430194096
HLX-3187	H3187	1124	MANCHESTER ST	38.0554494193	-84.5159011989
HLX-3188	H3188	1853	BRYAN STATION RD	38.06434	-84.45179
HLX-3189	H3189	539	ST ANTHONY DR	38.0609437105	-84.4497156258
HLX-3190	H3190	637	NORTHSIDE DR	38.058690507	-84.4456260176
HLX-3191	H3191	1028	PATRICIA LN	38.0903622335	-84.509735488
HLX-3192	H3192	1045	BIRCH DR	38.0887789609	-84.5085010196
HLX-3193	H3193	1978	MARK AVE	38.0898274789	-84.5062419336
HLX-3194	H3194	1971	ALICE DR	38.0899177999	-84.5034088125
HLX-3195	H3195	573	FREEMAN DR	38.0833671019	-84.4567051215
HLX-3196	H3196	575	JUDY LN	38.0828993551	-84.4579448891
HLX-3197	H3197	272	SWIGERT AVE	38.0931968526	-84.4489748193
HLX-3198	H3198	2986	CADENTOWN RD	38.0099148815	-84.4247801812
HLX-3200	H3200	265	ELMWOOD DR	38.0907624341	-84.4500547739
HLX-3201	H3201	1838	MCDONALD AVE	38.0152840841	-84.5120171001
HLX-3202	H3202	20	SHADY LN	38.0137925417	-84.5112244627
HLX-3203	H3203	230	TAHOMA RD	38.0120296049	-84.5091295465
HLX-3204	H3204	241	TAHOMA RD	38.0116613619	-84.5076202053
HLX-3205	H3205	234	GLENDOVER RD	38.0104928286	-84.508509691
HLX-3206	H3206	168	EDGEMOOR DR	38.0105424115	-84.5102639876
HLX-3207	H3207	334	BLUEBERRY RD	38.0086353646	-84.5051174414
HLX-3208	H3208	226	JESSELIN DR	38.0086866071	-84.5087930151

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3209	H3209	228	ALBANY RD	38.0085588402	-84.5113363586
HLX-3210	H3210	333	GLENDOVER RD	38.0096355574	-84.5049359458
HLX-3211	H3211	3517	CORNWALL DR	37.9914601719	-84.5633196489
HLX-3212	H3212	676	CROMWELL WAY	37.9914792112	-84.5600983433
HLX-3213	H3213	3569	CORNWALL DR	37.990155177	-84.5663164098
HLX-3214	H3214	3445	KEITHSHIRE WAY	37.9927677148	-84.5569489235
HLX-3215	H3215	672	CINDY BLAIR WAY	37.9963068318	-84.5548781819
HLX-3216	H3216	3379	KEITHSHIRE WAY	37.9954600022	-84.5522614245
HLX-3219	H3219	3240	SAXON DR	37.9978951505	-84.551418644
HLX-3220	H3220	3220	TUDOR DR	37.9989541614	-84.5526870445
HLX-3221	H3221	203	LEAWOOD DR	37.9952762584	-84.5150996888
HLX-3222	H3222	3444	BELVOIR DR	37.9953772966	-84.5137747834
HLX-3223	H3223	301	LEAWOOD DR	37.9966755484	-84.5129566634
HLX-3224	H3224	3412	LANSDOWNE DR	37.9948946561	-84.5102129561
HLX-3225	H3225	3424	FARMINGTON RD	37.9980573634	-84.5138282565
HLX-3226	H3226	3365	HUNTER RD	37.9975178241	-84.51094549
HLX-3227	H3227	3365	BELLEFONTE DR	37.9970070355	-84.5099704307
HLX-3228	H3228	3351	NANTUCKET DR	37.9960314951	-84.5077329717
HLX-3229	H3229	703	KIRKLAND DR	37.9962739978	-84.5057922334
HLX-3230	H3230	279	MALABU DR	37.999606348	-84.5139268008
HLX-3231	H3231	708	BURKSHIRE DR	37.9960511272	-84.5038895513
HLX-3232	H3232	3383	OVERBROOK DR	37.9955403589	-84.5022055479
HLX-3234	H3234	3309	OVERBROOK DR	37.9930401476	-84.4982304201
HLX-3235	H3235	742	KIRKLAND DR	37.9937583714	-84.5023207586
HLX-3236	H3236	80	MALABU DR	37.9927081208	-84.5020553595
HLX-3237	H3237	750	MALABU DR	37.9932491162	-84.5051564831
HLX-3238	H3238	715	KIRKLAND DR	37.9950645028	-84.5048780781
HLX-3239	H3239	3412	NANTUCKET DR	37.9950747607	-84.5066536926
HLX-3240	H3240	3419	MALABU CIR	37.9917748706	-84.5034729082
HLX-3241	H3241	3649	KING ARTHUR DR	37.9800436544	-84.5112977814
HLX-3242	H3242	299	E TIVERTON WAY	37.9768025295	-84.517626232
HLX-3243	H3243	2920	ARGYLE DR	37.9872596074	-84.519150187
HLX-3244	H3244	205	INVERNESS DR	37.9863408469	-84.5203849124
HLX-3245	H3245	218	LOCH LOMOND DR	37.98461098	-84.518960461

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3246	H3246	306	STONEBROOK DR	37.9838534024	-84.5168136151
HLX-3247	H3247	3517	BROOKVIEW DR	37.9867805732	-84.5147306465
HLX-3248	H3248	217	VANDERBILT DR	37.981935037	-84.5195613513
HLX-3249	H3249	316	TULANE DR	37.9807726548	-84.5188668674
HLX-3250	H3250	446	YALE DR	37.9805725475	-84.5154474383
HLX-3251	H3251	3128	HYDE PARK DR	38.0065769423	-84.5539195178
HLX-3252	H3252	3144	HYDE PARK DR	38.0056268489	-84.5544710259
HLX-3253	H3253	3148	CHELSEA DR	38.0049022399	-84.5531744345
HLX-3254	H3254	3128	CHELSEA DR	38.0062634056	-84.5522158889
HLX-3255	H3255	3098	HARRODSBURG RD	38.0112590738	-84.5573941412
HLX-3256	H3256	3021	ARROWHEAD DR	38.0096926964	-84.5547516452
HLX-3257	H3257	3037	ARROWHEAD DR	38.009271176	-84.5532068547
HLX-3258	H3258	837	APACHE TRL	38.0089203903	-84.5556915085
HLX-3259	H3259	824	APACHE TRL	38.0084069979	-84.5541593968
HLX-3260	H3260	841	TOMAHAWK TRL	38.0104488032	-84.5533299778
HLX-3261	H3261	169	TORONTO RD	37.9731603656	-84.5273225735
HLX-3262	H3262	4041	VICTORIA WAY	37.9711926318	-84.524780723
HLX-3263	H3263	4106	WINNEPEG WAY	37.9695010954	-84.524811891
HLX-3264	H3264	1538	BLUEBIRD LN	38.0280194851	-84.5178234131
HLX-3265	H3265	228	WALLER AVE	38.0291388961	-84.5154545332
HLX-3266	H3266	141	UNIVERSITY AVE	38.0296598575	-84.5127632633
HLX-3267	H3267	137	WALLER AVE	38.0287079851	-84.513037889
HLX-3268	H3268	195	FOREST PARK RD	38.0276555454	-84.5136627006
HLX-3269	H3269	110	WALLER AVE	38.0282788823	-84.5111196383
HLX-3270	H3270	1123	S LIMESTONE	38.029142202	-84.5104116616
HLX-3271	H3271	3842	NORTHAMPTON DR	37.9753763549	-84.5195569047
HLX-3272	H3272	740	WELLINGTON WAY	38.0033720062	-84.5555654605
HLX-3273	H3273	712	WELLINGTON WAY	38.0025809177	-84.5532218943
HLX-3274	H3274	3144	CHATHAM DR	38.0047067689	-84.5512736963
HLX-3275	H3275	3148	ARROWHEAD DR	38.00827217	-84.55021721
HLX-3276	H3276	3129	ARROWHEAD DR	38.0053446204	-84.5489137996
HLX-3277	H3277	3161	TRINITY RD	38.0034255436	-84.5482465068
HLX-3278	H3278	648	WELLINGTON WAY	38.0022238786	-84.5483744763
HLX-3279	H3279	579	BUCKINGHAM LN	38.0032339265	-84.5467549522

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3280	H3280	3117	STARLING DR	38.0040380747	-84.5028933681
HLX-3281	H3281	118	CISCO RD	38.0476114161	-84.525540855
HLX-3282	H3282	209	TAYLOR DR	38.0693703153	-84.5283496362
HLX-3283	H3283	249	GLENDALE AVE	38.0707001347	-84.5259513132
HLX-3284	H3284	1622	MEADOWTHORPE AVE	38.0689557337	-84.5260706553
HLX-3285	H3285	1601	LEESTOWN RD	38.0674359235	-84.5254585522
HLX-3286	H3286	245	HILLSBORO AVE	38.0703074055	-84.5248319665
HLX-3287	H3287	245	BOILING SPRINGS DR	38.0699257617	-84.5236407762
HLX-3288	H3288	243	LARCH LN	38.0687593198	-84.5228956201
HLX-3289	H3289	1538	MEADOWTHORPE AVE	38.0672529493	-84.523499535
HLX-3290	H3290	1498	MEADOWTHORPE AVE	38.0664505592	-84.5224000339
HLX-3291	H3291	801	NANDINO BLVD	38.0793615423	-84.4937278169
HLX-3292	H3292	817	NANDINO BLVD	38.0795678769	-84.494501888
HLX-3293	H3293	833	NANDINO BLVD	38.0796905666	-84.4956558018
HLX-3294	H3294	865	NANDINO BLVD	38.0790190382	-84.4964701542
HLX-3295	H3295	868	NANDINO BLVD	38.0780850607	-84.4968913276
HLX-3296	H3296	90	NANDINO BLVD	38.0773440061	-84.497521149
HLX-3297	H3297	364	REDDING RD	37.989197808	-84.5072016083
HLX-3298	H3298	384	REDDING RD	37.9889053227	-84.5053813422
HLX-3299	H3299	364	LIMA DR	38.0739735758	-84.5133450392
HLX-3300	H3300	3210	MUIR STATION RD	38.0668687775	-84.349965731
HLX-3301	H3301	1529	ELIZABETH ST	38.0256807654	-84.5146038547
HLX-3302	H3302	1447	NICHOLASVILLE RD	38.0250559742	-84.5118729331
HLX-3303	H3303	1557	ELIZABETH ST	38.0247356566	-84.5150466487
HLX-3304	H3304	209	DANTZLER CT	38.0243104707	-84.5163019805
HLX-3305	H3305	241	BARBERRY LN	38.0237419743	-84.5181236247
HLX-3306	H3306	110	DANTZLER DR	38.0232101125	-84.5143503079
HLX-3307	H3307	118	BARBERRY LN	38.0224432174	-84.514716269
HLX-3308	H3308	333	ARCADIA PK	38.0225820881	-84.5177216681
HLX-3309	H3309	122	ARCADIA PK	38.0211047134	-84.5153192074
HLX-3310	H3310	1912	DEAUVILLE DR	38.0510004974	-84.5436346531
HLX-3311	H3311	901	CHINOE RD	38.0062843861	-84.4857043352
HLX-3312	H3312	913	CHINOE RD	38.0050211298	-84.4854997124
HLX-3314	H3314	90	TURKEY FOOT RD	38.0164303262	-84.4944207036

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3315	H3315	608	AUTUMN LN	38.0174739597	-84.4939634495
HLX-3316	H3316	916	TURKEY FOOT RD	38.0166788868	-84.4929250707
HLX-3317	H3317	933	TURKEY FOOT RD	38.0166591654	-84.4912663369
HLX-3318	H3318	949	TURKEY FOOT RD	38.0159518017	-84.4897689899
HLX-3319	H3319	109	SOUTHPOINT DR	37.9664491805	-84.5338914932
HLX-3320	H3320	4537	PRINCE ALBERT WAY	37.9653373272	-84.5325449465
HLX-3321	H3321	121	CARRIE CT	37.9666787451	-84.5325829892
HLX-3322	H3322	4505	PRINCE ALBERT WAY	37.9665344449	-84.5309289635
HLX-3323	H3323	225	WHITFIELD DR	37.9656591606	-84.5294904373
HLX-3324	H3324	4501	ALIGAN WAY	37.9652994907	-84.5282247479
HLX-3325	H3325	321	WHITFIELD DR	37.964460246	-84.5269631998
HLX-3326	H3326	4513	ALIGAN WAY	37.9646160858	-84.5289525854
HLX-3327	H3327	324	ANGELA CT	37.9638172712	-84.5275748231
HLX-3328	H3328	245	SOUTHPOINT DR	37.9638933019	-84.5296614451
HLX-3329	H3329	248	SOUTHPOINT DR	37.9634460643	-84.5295704602
HLX-3330	H3330	220	SOUTHPOINT DR	37.9644551276	-84.531078975
HLX-3331	H3331	212	PINDELL CT	37.96345	-84.53241
HLX-3332	H3332	4561	PRINCE ALBERT WAY	37.9640781633	-84.5332647836
HLX-3333	H3333	940	CHINOE RD	38.0035698746	-84.4851754143
HLX-3334	H3334	3308	SHILLITO PARK RD	37.9925263594	-84.5306542973
HLX-3335	H3335	651	W NEW CIRCLE RD	38.07299	-84.48339
HLX-3336	H3336	531	W NEW CIRCLE RD	38.0727505513	-84.4816023221
HLX-3337	H3337	505	W NEW CIRCLE RD	38.0723598323	-84.4800322206
HLX-3338	H3338	461	W NEW CIRCLE RD	38.0718452225	-84.4784677902
HLX-3339	H3339	501	BALMORAL CT	38.0605105302	-84.4543614169
HLX-3340	H3340	505	COLLIER CT	38.0594840071	-84.4551183149
HLX-3341	H3341	1753	BELLECHASSE DR	38.0586903761	-84.4524815368
HLX-3342	H3342	1772	BELLECHASSE DR	38.0576184165	-84.4510105536
HLX-3343	H3343	60	BERESFORD DR	38.0567159116	-84.4502786638
HLX-3344	H3344	667	BELLCASTLE RD	38.0549198539	-84.4485212168
HLX-3345	H3345	60	BRYANWOOD PKY	38.0564240416	-84.4516141217
HLX-3346	H3346	580	BRYANWOOD PKY	38.0572001009	-84.4527927132
HLX-3347	H3347	0	NEW CIRCLE RD	37.9897932979	-84.5015352933
HLX-3348	H3348	0	REDDING RD	37.9900343748	-84.5027256185

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3349	H3349	395	REDDING RD	37.9892612294	-84.5033375213
HLX-3350	H3350	395	REDDING RD	37.9881485591	-84.5014909093
HLX-3351	H3351	395	REDDING RD	37.9886984395	-84.5022924006
HLX-3352	H3352	180	CURTIS CT	38.0443488866	-84.4476594135
HLX-3353	H3353	420	ROGERS RD	38.0808168491	-84.4503354121
HLX-3354	H3354	432	ROGERS RD	38.0818091176	-84.4507840317
HLX-3355	H3355	507	ROGERS RD	38.0828478711	-84.4513125896
HLX-3356	H3356	981	BEASLEY ST	38.0402343392	-84.4523045839
HLX-3358	H3358	19	DEEPWOOD DR	38.0667788905	-84.4591593575
HLX-3359	H3359	111	EASTIN RD	38.0687390254	-84.4609381268
HLX-3360	H3360	786	CHINOE RD	38.0107148365	-84.4844454649
HLX-3361	H3361	1159	ATHENIA DR	38.0339729623	-84.5629976927
HLX-3362	H3362	11	TANGLEWOOD DR	38.0680101961	-84.4572942851
HLX-3363	H3363	3773	TEMPLE DR	37.9795135446	-84.5161589103
HLX-3364	H3364	478	PLYMOUTH DR	37.985830629	-84.5451962206
HLX-3365	H3365	3436	CORNWALL DR	37.9923246538	-84.5615883671
HLX-3366	H3366	0	OLD TODDS RD	38.0096586787	-84.4423188169
HLX-3367	H3367	3270	NICHOLASVILLE RD	37.9923687566	-84.5228319143
HLX-3368	H3368	144	E REYNOLDS RD	37.9902760895	-84.5212712504
HLX-3369	H3369	168	E REYNOLDS RD	37.9898114838	-84.5197762212
HLX-3370	H3370	243	E REYNOLDS RD	37.9895307938	-84.5176539163
HLX-3371	H3371	10	E REYNOLDS RD	37.9909351053	-84.5233703752
HLX-3372	H3372	7	DEEPWOOD DR	38.0679874546	-84.4625807331
HLX-3373	H3373	13	DEEPWOOD DR	38.0664837656	-84.4611945635
HLX-3374	H3374	3360	GRASMERE DR	37.9977959089	-84.5657387077
HLX-3375	H3375	913	BRAVINGTON WAY	37.9966953976	-84.5660851843
HLX-3376	H3376	224	ROSEMONT GDN	38.0194159845	-84.5222398517
HLX-3377	H3377	148	EDGEMOOR DR	38.0110294031	-84.5118990651
HLX-3378	H3378	2801	RICHMOND RD	38.0079535905	-84.4528422939
HLX-3379	H3379	453	POTOMAC DR	37.9858133626	-84.5429392062
HLX-3380	H3380	3442	BRUNSWICK RD	37.9866466651	-84.5426607904
HLX-3382	H3382	150	ELIZABETH ST	38.0265107108	-84.5142234433
HLX-3383	H3383	2125	LIBERTY RD	38.0287706187	-84.4507286784
HLX-3384	H3384	740	WILDERNESS RD	38.0264365983	-84.4508568653

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3385	H3385	1908	LIBERTY RD	38.0311007325	-84.4568871354
HLX-3386	H3386	426	POTOMAC DR	37.9851446363	-84.5412763617
HLX-3387	H3387	431	PLYMOUTH DR	37.984591359	-84.5427020887
HLX-3389	H3389	805	APACHE TRL	38.0079534398	-84.5525784957
HLX-3390	H3390	568	CROMWELL WAY	37.9869741739	-84.5527092814
HLX-3391	H3391	3479	BRUNSWICK RD	37.9867073819	-84.5445924369
HLX-3392	H3392	350	LANSLOWNE DR	37.9884399797	-84.5147136145
HLX-3393	H3393	3466	LANSLOWNE DR	37.9921234063	-84.5138778399
HLX-3394	H3394	3448	LANSLOWNE DR	37.9942001424	-84.5124625109
HLX-3395	H3395	3426	BROOKHAVEN DR	37.9935354634	-84.5096648723
HLX-3396	H3396	717	MALABU DR	37.9941305669	-84.5077174667
HLX-3397	H3397	733	MALABU DR	37.993663427	-84.5066145664
HLX-3398	H3398	329	HIGHTOWER RD	37.9915111071	-84.5103269496
HLX-3399	H3399	3275	TATES CREEK RD	37.9981043453	-84.4959400988
HLX-3400	H3400	2102	DEAUVILLE DR	38.0556383421	-84.5489408623
HLX-3401	H3401	2132	DEAUVILLE DR	38.0570382523	-84.5482074382
HLX-3402	H3402	2156	DEAUVILLE DR	38.0579804744	-84.5476004735
HLX-3403	H3403	1206	GARRISON AVE	38.0411957006	-84.5296226244
HLX-3404	H3404	714	GOLFVIEW DR	38.0400831619	-84.5286012912
HLX-3405	H3405	637	GOLFVIEW DR	38.0391629484	-84.526511481
HLX-3406	H3406	1533	GLOVER AVE	38.0512249432	-84.5321726702
HLX-3407	H3407	211	SOUTHPORT DR	38.0231469562	-84.5256129007
HLX-3408	H3408	117	VISTA ST	38.0227783904	-84.527332402
HLX-3409	H3409	546	LONE OAK DR	38.0243490814	-84.530621092
HLX-3410	H3410	231	SOUTHPORT DR	38.0237879944	-84.5248021892
HLX-3411	H3411	108	ELAM PK	38.0185749461	-84.5222148705
HLX-3412	H3412	225	SHADY LN	38.0130244135	-84.508792584
HLX-3413	H3413	106	SHADY LN	38.0147629844	-84.513700693
HLX-3414	H3414	1921	BELLEFONTE DR	38.0081068125	-84.5035690477
HLX-3415	H3415	1201	CRESCENT AVE	38.0299664439	-84.5149342955
HLX-3416	H3416	933	DAYTON AVE	38.0402910908	-84.4713497761
HLX-3417	H3417	937	DETROIT AVE	38.0407799187	-84.4704590813
HLX-3418	H3418	585	MITCHELL AVE	38.0220203345	-84.5311965087
HLX-3419	H3419	577	ROSEMILL DR	38.0209057826	-84.5311701136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3420	H3420	584	LONGVIEW DR	38.0198855787	-84.5322037493
HLX-3421	H3421	111	CHEROKEE PK	38.0196662022	-84.5153332786
HLX-3422	H3422	141	CHEROKEE PK	38.0201966673	-84.5170771601
HLX-3423	H3423	118	SUBURBAN CT	38.0184438901	-84.516223121
HLX-3424	H3424	144	SUBURBAN CT	38.0191062167	-84.5182993612
HLX-3427	H3427	1119	SPARKS RD	38.037913696	-84.466240184
HLX-3428	H3428	1621	COURTNEY AVE	38.035729171	-84.464224324
HLX-3429	H3429	1617	CLAYTON AVE	38.036498044	-84.4639414814
HLX-3430	H3430	1711	COURTNEY AVE	38.0348461163	-84.4629286111
HLX-3431	H3431	525	MCCUBBING DR	38.028495036	-84.5277279419
HLX-3432	H3432	624	SHERIDAN DR	38.0202034236	-84.5360416477
HLX-3434	H3434	136	LOCUST AVE	38.0605598401	-84.4737296918
HLX-3435	H3435	122	PARIS AVE	38.0633052558	-84.4754414082
HLX-3436	H3436	494	OSPREY CIR	37.989886529	-84.5419582594
HLX-3437	H3437	3381	BOSTON RD	37.9880223961	-84.5409919596
HLX-3438	H3438	438	OSPREY CIR	37.9892850156	-84.5396958344
HLX-3439	H3439	470	DENVER LN	37.9870245289	-84.5401733635
HLX-3440	H3440	398	MONTICELLO BLVD	37.9881594558	-84.5373024215
HLX-3441	H3441	1307	BEULAH PK	37.9772565834	-84.4752977254
HLX-3442	H3442	1355	BEULAH PK	37.976800304	-84.4728937322
HLX-3443	H3443	1391	BEULAH PK	37.9756187368	-84.4718851954
HLX-3444	H3444	3628	BOLD BIDDER DR	37.9776407324	-84.4718139312
HLX-3445	H3445	3664	BOLD BIDDER DR	37.9763202016	-84.4709587916
HLX-3446	H3446	1403	MERCER RD	38.0762527178	-84.5072362599
HLX-3447	H3447	736	LYNN RD	38.0295524479	-84.5334474263
HLX-3448	H3448	3361	HOLWYN RD	37.995284413	-84.548776538
HLX-3449	H3449	3344	PARTNER PL	37.9948949322	-84.5471999389
HLX-3450	H3450	3301	KEITHSHIRE WAY	37.9942407773	-84.5461076163
HLX-3451	H3451	570	DELZAN PL	37.995561603	-84.5448797855
HLX-3452	H3452	1232	MAN O WAR PL	38.0328757528	-84.5190390546
HLX-3453	H3453	919	MCCLANAHAN LN	38.0113221838	-84.4476929647
HLX-3454	H3454	2872	ASHBY GLEN PL	38.0104848824	-84.445248197
HLX-3455	H3455	0	OLD TODDS RD	38.0094075965	-84.43489547
HLX-3456	H3456	0	OLD TODDS RD	38.0091570805	-84.432280485

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3457	H3457	1729	APPOMATTOX RD	38.0398227891	-84.5443960822
HLX-3458	H3458	149	MOORE DR	37.9999892418	-84.5219589261
HLX-3459	H3459	175	MOORE DR	38.0002919182	-84.5232742142
HLX-3460	H3460	199	MOORE DR	38.0006449346	-84.5248396372
HLX-3461	H3461	210	MOUNT TABOR RD	38.0080106906	-84.4950116154
HLX-3462	H3462	305	TATES CREEK RD	38.0068003231	-84.4960616696
HLX-3463	H3463	3025	TATES CREEK RD	38.0049964045	-84.4961086857
HLX-3465	H3465	2699	LEESTOWN RD	38.0834499217	-84.5492174886
HLX-3466	H3466	122	LEESWAY DR	38.0846314133	-84.5480115084
HLX-3467	H3467	1738	BLUE LICKS RD	38.0394912882	-84.5430922099
HLX-3468	H3468	1738	GETTYSBURG RD	38.0389163157	-84.5420961768
HLX-3469	H3469	1742	YORKTOWN RD	38.0382328579	-84.5408745103
HLX-3470	H3470	180	YORKTOWN RD	38.0366099482	-84.5419780295
HLX-3471	H3471	1742	NORMANDY RD	38.0377197507	-84.539862338
HLX-3472	H3472	922	MASON HEADLEY RD	38.0406488083	-84.5384991032
HLX-3473	H3473	898	MASON HEADLEY RD	38.0408879698	-84.5360235898
HLX-3474	H3474	1560	BEACON HILL RD	38.0408879698	-84.5360235898
HLX-3475	H3475	425	HAGGARD LN	38.0754923246	-84.4594870494
HLX-3476	H3476	130	SEQUOIA DR	37.9755228512	-84.4758110371
HLX-3477	H3477	3520	AMBER KING CT	37.9757518627	-84.474731908
HLX-3478	H3478	1336	SEQUOIA DR	37.9747153922	-84.4741703011
HLX-3479	H3479	3612	SUNDART DR	37.9742971442	-84.4750384833
HLX-3481	H3481	320	CARRIAGE LN	37.9898903747	-84.4673151098
HLX-3482	H3482	3224	CARRIAGE LN	37.9884210579	-84.4675033455
HLX-3483	H3483	3245	CARRIAGE LN	37.9871288324	-84.4671775086
HLX-3484	H3484	125	GARRETT AVE	38.0509616199	-84.5344842951
HLX-3485	H3485	130	HAMILTON PK	38.0508223255	-84.536859226
HLX-3486	H3486	136	WESTGATE DR	38.05071972	-84.53850623
HLX-3487	H3487	115	WESTGATE DR	38.0493976837	-84.538356617
HLX-3489	H3489	409	LAREDO CT	37.9880075805	-84.5082887423
HLX-3490	H3490	3460	LAREDO DR	37.9864282929	-84.5076886811
HLX-3491	H3491	3429	REDCOACH TRL	37.9872054613	-84.5064958738
HLX-3492	H3492	3407	REDCOACH TRL	37.988178605	-84.5059207589
HLX-3493	H3493	3404	LAREDO DR	37.9886231509	-84.5068694859

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3494	H3494	3430	LAREDO DR	37.9874699724	-84.5071558284
HLX-3495	H3495	653	TALLY RD	38.0107660407	-84.4873668419
HLX-3496	H3496	1049	TURKEY FOOT RD	38.0107482528	-84.4861123095
HLX-3497	H3497	133	VICTORY AVE	38.0342626181	-84.4783202069
HLX-3498	H3498	111	VICTORY AVE	38.0332341235	-84.4797534932
HLX-3500	H3500	141	BASSETT AVE	38.0308105392	-84.4765646455
HLX-3501	H3501	231	BASSETT AVE	38.0326686186	-84.4738434428
HLX-3502	H3502	140	VILEY RD	38.0483192142	-84.5597838592
HLX-3503	H3503	1320	RUSSELL CAVE RD	38.070200146	-84.4777616443
HLX-3504	H3504	369	THOMPSON RD	38.0569720878	-84.5182929607
HLX-3505	H3505	1265	MANCHESTER ST	38.0574778722	-84.5222162629
HLX-3506	H3506	0	VAN METER RD	38.044597356	-84.5899923571
HLX-3507	H3507	4994	VERSAILLES RD	38.0415345261	-84.6262862421
HLX-3508	H3508	5757	VERSAILLES RD	38.0430989246	-84.6475879781
HLX-3514	H3514	2702	WESTMORLAND RD	38.0429364004	-84.634430196
HLX-3516	H3516	3605	GLOUCESTER DR	38.0489419868	-84.6286981261
HLX-3517	H3517	2917	RICHMOND RD	38.0039656361	-84.4486238332
HLX-3518	H3518	3294	RICHMOND RD	37.9997119284	-84.4439455698
HLX-3520	H3520	2291	BAHAMA RD	38.0334782593	-84.3811905666
HLX-3521	H3521	2259	BAHAMA RD	38.0316185723	-84.3825199295
HLX-3522	H3522	3520	LEESTOWN RD	38.101151102	-84.5700989307
HLX-3523	H3523	3104	LEESTOWN RD	38.0926735309	-84.5613905213
HLX-3524	H3524	121	BRADLEY LN	38.0969099994	-84.5659332657
HLX-3525	H3525	657	WILDERNESS RD	38.0245057557	-84.448719316
HLX-3526	H3526	595	WILDERNESS RD	38.0222488767	-84.4472342283
HLX-3527	H3527	520	WILDERNESS RD	38.020810981	-84.4445771671
HLX-3528	H3528	2138	LIGHTHOUSE LN	38.0280900658	-84.4467704884
HLX-3529	H3529	2433	LIBERTY RD	38.0229578193	-84.4385297733
HLX-3530	H3530	797	RAMBLING CREEK DR	38.0171604562	-84.4309094654
HLX-3531	H3531	2852	CADENTOWN RD	38.012633433	-84.4268267841
HLX-3532	H3532	3540	GLOUCESTER DR	38.0492362346	-84.6322830626
HLX-3533	H3533	2218	BAHAMA RD	38.0300000143	-84.3845801347
HLX-3534	H3534	1708	BAHAMA RD	38.0292592433	-84.3814707942
HLX-3535	H3535	1765	BAHAMA RD	38.0270240741	-84.3791536088

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3536	H3536	1805	BAHAMA RD	38.0253888636	-84.377474247
HLX-3538	H3538	3717	VERSAILLES RD	38.0445511403	-84.5846361235
HLX-3539	H3539	3559	RICE RD	38.0434944734	-84.6152715241
HLX-3540	H3540	3555	RICE RD	38.0453086695	-84.6142616767
HLX-3541	H3541	407	W NEW CIRCLE RD	38.0711412333	-84.476988874
HLX-3542	H3542	234	MEDLOCK RD	37.993020005	-84.5165978388
HLX-3543	H3543	258	MEDLOCK RD	37.9922812249	-84.5168985014
HLX-3544	H3544	3325	KENESAW DR	37.9742799713	-84.4625174172
HLX-3545	H3545	3345	KENESAW DR	37.9731461836	-84.4630124266
HLX-3546	H3546	1620	MAGNA OAK DR	37.9726448724	-84.4617810664
HLX-3547	H3547	1632	MAGNA OAK DR	37.972080475	-84.461133479
HLX-3564	H3564	4075	ROYSTER RD	38.0301495871	-84.3614884597
HLX-3565	H3565	5081	WINCHESTER RD	38.0291335332	-84.3342052834
HLX-3566	H3566	127	RIVIERA RD	38.0265883529	-84.3156792707
HLX-3567	H3567	247	RIVIERA RD	38.0263984827	-84.319645321
HLX-3568	H3568	3069	N CLEVELAND RD	38.0316022025	-84.3563073221
HLX-3569	H3569	3161	ROLLING HILLS CT	38.033882062	-84.3580698446
HLX-3570	H3570	4514	BRIAR HILL RD	38.0668626054	-84.3560725645
HLX-3571	H3571	5413	BRIAR HILL RD	38.0698993765	-84.3276464706
HLX-3573	H3573	2179	BAHAMA RD	38.0271297983	-84.3845224332
HLX-3574	H3574	2586	EDGEHILL DR	38.0478678251	-84.635263202
HLX-3575	H3575	1877	BAHAMA RD	38.0223995212	-84.3772082334
HLX-3576	H3576	2033	BAHAMA RD	38.021576083	-84.3802910448
HLX-3577	H3577	6290	ATHENS BOONESBORO RD	37.9505345363	-84.3668716051
HLX-3578	H3578	89	GENTRY RD	37.9505822308	-84.3628863156
HLX-3579	H3579	306	BRYAN STATION RD	38.0754554748	-84.416619153
HLX-3580	H3580	3801	KAREN CT	38.0411955301	-84.6352276952
HLX-3581	H3581	3840	WYSE SQ	38.0450269489	-84.6364224042
HLX-3584	H3584	1632	DONELWAL DR	38.1334043674	-84.5262818716
HLX-3585	H3585	1656	DONELWAL DR	38.1346132368	-84.5234993769
HLX-3586	H3586	2813	DAN PATCH DR	38.136725256	-84.5222791359
HLX-3587	H3587	2838	DAN PATCH DR	38.1388753397	-84.5242986843
HLX-3589	H3589	5610	MT HOREB PIKE	38.183991398	-84.4564620104
HLX-3590	H3590	3711	CAMELOT DR	37.9784611024	-84.5102333361

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3591	H3591	426	WHISPERING HILLS DR	37.9780194293	-84.5087387237
HLX-3592	H3592	450	WHISPERING HILLS DR	37.9771614074	-84.5076390878
HLX-3593	H3593	474	WHISPERING HILLS DR	37.9760054302	-84.5074577872
HLX-3594	H3594	3797	CAMELOT DR	37.9744673869	-84.5087548826
HLX-3595	H3595	3302	SPANGLER DR	37.9856563811	-84.5022620672
HLX-3596	H3596	3330	SPANGLER DR	37.9844096944	-84.5030011741
HLX-3597	H3597	3350	SPANGLER DR	37.983342341	-84.5036418193
HLX-3598	H3598	3362	SPANGLER DR	37.9827017144	-84.5043201821
HLX-3599	H3599	3374	SPANGLER DR	37.9820345139	-84.5049178842
HLX-3600	H3600	3309	GRASMERE DR	37.9973153344	-84.5678766675
HLX-3601	H3601	3320	GRASMERE DR	37.998283468	-84.5683682005
HLX-3602	H3602	3352	GRASMERE DR	37.9981330457	-84.5665182172
HLX-3603	H3603	4137	PLANTAGENET DR	38.0378126025	-84.5794607656
HLX-3604	H3604	1573	WELLESLEY DR	38.038480932	-84.5776968284
HLX-3605	H3605	3728	CAMELOT DR	37.9774642119	-84.5106091131
HLX-3606	H3606	3752	CAMELOT DR	37.975959897	-84.5108582492
HLX-3607	H3607	887	EDGEWATER DR	37.9985930909	-84.4639204078
HLX-3608	H3608	2168	ISLAND DR	38.0002340858	-84.464577927
HLX-3609	H3609	2124	ISLAND DR	38.0012782125	-84.4665728301
HLX-3610	H3610	604	LAKESHORE DR	38.0025376882	-84.4668998169
HLX-3611	H3611	633	LAKESHORE DR	38.002858892	-84.4647554269
HLX-3612	H3612	648	LAKESHORE DR	38.0034818332	-84.4630116191
HLX-3613	H3613	733	EDGEWATER DR	38.001162211	-84.463699548
HLX-3614	H3614	304	ISLAND DR	38.0022005383	-84.4631161443
HLX-3615	H3615	789	ROSE ST	38.0320234049	-84.507918348
HLX-3616	H3616	1460	NEWTOWN PIKE	38.0866880516	-84.4895136735
HLX-3617	H3617	1324	RUSSELL CAVE RD	38.06942369	-84.4788410474
HLX-3619	H3619	211	GREENDALE RD	38.0776063032	-84.537019401
HLX-3620	H3620	2630	RICHMOND RD	38.0102514573	-84.4560738601
HLX-3621	H3621	4017	EXPO CT	37.970618743	-84.5222479222
HLX-3622	H3622	2659	REGENCY RD	37.9991122675	-84.5255618854
HLX-3623	H3623	2678	REGENCY RD	37.9989941148	-84.5241504974
HLX-3624	H3624	3525	HONEY JAY CT	37.9796821233	-84.4762439945
HLX-3625	H3625	3353	PEPPERHILL RD	37.9946898144	-84.4882211352

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3626	H3626	1217	TISHOFF DR	37.9933476454	-84.4883283482
HLX-3627	H3627	1201	TISHOFF DR	37.9929020202	-84.4897890682
HLX-3628	H3628	1236	TISHOFF DR	37.9942679571	-84.487153819
HLX-3629	H3629	3422	FLEETWOOD DR	37.9965654967	-84.4865392788
HLX-3630	H3630	1750	FRANKFORT PIKE	38.0605429725	-84.5384018705
HLX-3631	H3631	1562	FRANKFORT PIKE	38.0593654785	-84.5350575918
HLX-3632	H3632	1515	FRANKFORT PIKE	38.0585236278	-84.5326325879
HLX-3633	H3633	1401	FRANKFORT PIKE	38.0582586289	-84.5299692062
HLX-3634	H3634	2327	LAKE PARK DR	38.0130155517	-84.461031212
HLX-3636	H3636	2412	LAKE PARK DR	38.0101068811	-84.4619096395
HLX-3637	H3637	2380	LAKE PARK DR	38.009036175	-84.461169761
HLX-3638	H3638	2414	LAKE PARK DR	38.009111214	-84.4618896448
HLX-3639	H3639	3395	DRAYTON PL	37.9943912755	-84.5451922151
HLX-3640	H3640	2837	YELLOWSTONE PKY	37.9941306844	-84.4593294804
HLX-3641	H3641	2801	WINTER PARK DR	37.9951183139	-84.4578392553
HLX-3642	H3642	601	EUREKA SPRINGS DR	37.9965615847	-84.4577716625
HLX-3643	H3643	557	EUREKA SPRINGS DR	37.9986175451	-84.4569409939
HLX-3644	H3644	133	MIDLAND AVE	38.0412306362	-84.4897334544
HLX-3645	H3645	340	ASHMOOR DR	37.9612818184	-84.5245747968
HLX-3646	H3646	324	SOUTHPOINT DR	37.9605932759	-84.5253348937
HLX-3647	H3647	296	SOUTHPOINT DR	37.9617147462	-84.5270268598
HLX-3648	H3648	268	SOUTHPOINT DR	37.9626414924	-84.5284145673
HLX-3649	H3649	372	ATWOOD DR	37.9600036721	-84.526408588
HLX-3650	H3650	344	ATWOOD DR	37.9608932032	-84.5280628563
HLX-3652	H3652	201	SUMMERHAYES CT	38.000456621	-84.5693873733
HLX-3653	H3653	3821	GLADMAN WAY	37.999508482	-84.5723862992
HLX-3654	H3654	3844	GLADMAN WAY	37.998949119	-84.5740223559
HLX-3655	H3655	4088	SOLBERG LN	37.9998705249	-84.574315354
HLX-3656	H3656	3820	MERRIDEW WAY	38.0001490694	-84.5730123396
HLX-3657	H3657	4080	FORSYTHE DR	38.0009659839	-84.5733052641
HLX-3658	H3658	4117	FORSYTHE DR	38.0006633549	-84.5716184301
HLX-3659	H3659	4185	FORSYTHE DR	37.9974718867	-84.5703190835
HLX-3660	H3660	3816	HEIMBAUGH LN	37.9974944554	-84.5716262068
HLX-3661	H3661	3844	HEIMBAUGH LN	37.997666824	-84.5734237968

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3662	H3662	3825	HAPGOOD LN	37.9984835751	-84.5724049366
HLX-3663	H3663	4149	FORSYTHE DR	37.9990637055	-84.5707292426
HLX-3664	H3664	277	GOLD RUSH RD	38.0012674953	-84.5300935186
HLX-3665	H3665	228	GOLD RUSH RD	38.0006005876	-84.5280592684
HLX-3666	H3666	420	REDDING RD	37.9854863378	-84.4988019373
HLX-3667	H3667	421	REDDING RD	37.9845894742	-84.497131759
HLX-3668	H3668	429	REDDING RD	37.9835200552	-84.496497154
HLX-3669	H3669	4028	ELORA LN	37.9680466127	-84.5243926877
HLX-3670	H3670	4103	BAFFIN BAY RD	37.9696082793	-84.5272585488
HLX-3671	H3671	233	QUEBEC WAY	37.9687569909	-84.5254677599
HLX-3672	H3672	633	SQUIRES RD	37.9863065733	-84.4521898529
HLX-3673	H3673	613	SQUIRES RD	37.9875793206	-84.450532286
HLX-3674	H3674	3182	GREENBO RD	37.9885476457	-84.4513989384
HLX-3675	H3675	3198	DEWEY DR	37.9885309569	-84.4497549585
HLX-3676	H3676	3179	DEWEY DR	37.9895375472	-84.4513843255
HLX-3677	H3677	60	BESHEAR CT	37.9870978642	-84.4534849873
HLX-3678	H3678	3016	DALE HOLLOW DR	37.9878463317	-84.452421806
HLX-3679	H3679	3036	DALE HOLLOW DR	37.9890778198	-84.4530352242
HLX-3680	H3680	3060	DALE HOLLOW DR	37.9903167457	-84.4535754404
HLX-3681	H3681	3092	DALE HOLLOW DR	37.9913652982	-84.4547732307
HLX-3682	H3682	3121	DALE HOLLOW DR	37.9900786213	-84.4549385899
HLX-3683	H3683	3153	DALE HOLLOW DR	37.9886236444	-84.4541707962
HLX-3684	H3684	2816	MT MCKINLEY WAY	37.9845637869	-84.4637333013
HLX-3685	H3685	2820	MT MCKINLEY WAY	37.9838624023	-84.4631221648
HLX-3686	H3686	2840	MT MCKINLEY WAY	37.9826930776	-84.4623335464
HLX-3687	H3687	1222	TRENT BLVD	37.9712691059	-84.4851296308
HLX-3688	H3688	3424	PINAS BAY DR	37.9945820088	-84.4850242808
HLX-3689	H3689	3409	HERITAGE PL	37.9951988111	-84.4843037314
HLX-3690	H3690	3416	FREELAND DR	37.9937643634	-84.4841970519
HLX-3691	H3691	845	RED MILE RD	38.0438768889	-84.5236483903
HLX-3692	H3692	6270	ATHENS WALNUT HILL PIKE	37.9502486724	-84.3681618931
HLX-3693	H3693	6338	ATHENS BOONESBORO RD	37.9499272574	-84.3656118607
HLX-3694	H3694	6435	ATHENS BOONESBORO RD	37.9488120484	-84.3633395282
HLX-3695	H3695	196	BLUE SKY PKY	37.96441	-84.37364

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3696	H3696	284	BLUE SKY PKY	37.9632247951	-84.3787035573
HLX-3697	H3697	360	BLUE SKY PKY	37.9640354755	-84.3762823803
HLX-3698	H3698	1101	DELAWARE AVE	38.0381107007	-84.4699116354
HLX-3699	H3699	1588	DELAWARE AVE	38.0362790109	-84.4671910974
HLX-3700	H3700	3267	CARRIAGE LN	37.9865358903	-84.4659567915
HLX-3701	H3701	3281	CARRIAGE LN	37.9859707649	-84.4649645179
HLX-3702	H3702	3297	CARRIAGE LN	37.9849429988	-84.4649402705
HLX-3703	H3703	455	PARK PL	38.0693550381	-84.4836175263
HLX-3704	H3704	406	PARK PL	38.0682877977	-84.4825009788
HLX-3705	H3705	721	ROLAND AVE	38.0468382221	-84.4450581512
HLX-3706	H3706	733	LAKEVIEW DR	38.030590877	-84.4578018207
HLX-3707	H3707	5525	BRIAR HILL RD	38.0702620271	-84.3248478457
HLX-3708	H3708	4595	BRYAN STATION RD	38.1045643855	-84.3758617217
HLX-3709	H3709	5323	BRIAR HILL RD	38.0695200991	-84.3305664085
HLX-3710	H3710	3380	PARIS PIKE	38.0977828373	-84.4209850129
HLX-3711	H3711	1201	WALKERS WAY	38.0073134026	-84.4903175156
HLX-3712	H3712	1957	SHADYBROOK LN	38.0040404247	-84.4796369484
HLX-3713	H3713	2020	SHADYBROOK LN	38.0007398975	-84.4752257218
HLX-3714	H3714	5141	VERSAILLES RD	38.0401823462	-84.6297397497
HLX-3715	H3715	4751	KEENE RD	37.9963724133	-84.5920584769
HLX-3716	H3716	4790	KEENE RD	37.9956783333	-84.5948535202
HLX-3717	H3717	4379	HARRODSBURG RD	37.9962797532	-84.5849005713
HLX-3718	H3718	2108	CAVE HILL LN	38.0093880502	-84.5671331212
HLX-3719	H3719	5235	FORT SPRINGS PINCKARD RD	38.0137521469	-84.6410551482
HLX-3720	H3720	327	S EAGLE CREEK DR	37.9936330931	-84.4503651104
HLX-3721	H3721	283	S EAGLE CREEK DR	37.9946484633	-84.4501563024
HLX-3722	H3722	251	S EAGLE CREEK DR	37.9956599974	-84.4485468359
HLX-3723	H3723	3320	BEAVER CREEK DR	37.9950322205	-84.447429797
HLX-3724	H3724	222	S EAGLE CREEK DR	37.99660704	-84.4471700806
HLX-3725	H3725	3321	OTTER CREEK DR	37.9941072637	-84.4490905556
HLX-3726	H3726	3361	OTTER CREEK DR	37.99432699	-84.44644693
HLX-3727	H3727	383	S EAGLE CREEK DR	37.9932496472	-84.4473835104
HLX-3728	H3728	3332	BEAVER CREEK DR	37.9943023756	-84.4478110923
HLX-3729	H3729	191	S EAGLE CREEK DR	37.9971730893	-84.4458397708

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HLX-3730	H3730	157	S EAGLE CREEK DR	37.9979542575	-84.4447630717
HLX-3732	H3732	3322	COVE LAKE DR	37.9963073932	-84.4452249297
HLX-3733	H3733	3338	COVE LAKE DR	37.9955075253	-84.4449307611
HLX-3734	H3734	3356	COVE LAKE DR	37.9946326353	-84.4447840896
HLX-3735	H3735	352	S EAGLE CREEK DR	37.9932802383	-84.4486692699
HLX-3736	H3736	3227	PIMLICO PKY	37.9899161076	-84.4660922638
HLX-3737	H3737	3206	PIMLICO PKY	37.9890936263	-84.4646019183
HLX-3738	H3738	3189	PIMLICO PKY	37.9886536498	-84.4634063145
HLX-3739	H3739	3183	YELLOWSTONE PKY	37.989863858	-84.4628421043
HLX-3740	H3740	1336	POST OAK RD	37.9903539874	-84.4642684735
HLX-3741	H3741	1316	POST OAK RD	37.9909636733	-84.4656760959
HLX-3742	H3742	423	MONTICELLO BLVD	37.9890065622	-84.5383539175
HLX-3743	H3743	756	E 7TH ST	38.0453984802	-84.4719753997
HLX-3744	H3744	5290	TATES CREEK RD	37.9445498556	-84.4826495251
HLX-3745	H3745	5693	BRIAR HILL RD	38.0714674721	-84.3195104084
HLX-3746	H3746	3161	PIMLICO PKY	37.9871857802	-84.4619861688
HLX-3747	H3747	3169	PIMLICO PKY	37.9879010155	-84.462660358
HLX-3748	H3748	500	MT HOREB PIKE	38.1718744959	-84.463240534
HLX-3749	H3749	4927	RUSSELL CAVE RD	38.1480541038	-84.4115480105
HLX-3750	H3750	500	LAKETOWER DR	38.0100320916	-84.4693617487
HLX-3751	H3751	500	LAKETOWER DR	38.0095664799	-84.4683027123
HLX-3752	H3752	3345	BOSTON RD	37.9884769767	-84.5392856151
HLX-3753	H3753	612	GALAXIE DR	38.0154822339	-84.4922383383
HLX-3754	H3754	925	WISHBONE CIR	38.0150973884	-84.4940092609
HLX-3755	H3755	624	GALAXIE DR	38.0143530937	-84.4922905555
HLX-3756	H3756	3401	SIMCOE DR	37.9932957891	-84.4868233611
HLX-3757	H3757	3409	SIMCOE DR	37.9925771714	-84.4869994965
HLX-3758	H3758	3421	BOSTON RD	37.9884067486	-84.5431961235
HLX-3759	H3759	203	RAND AVE	38.0517624319	-84.485608387
HLX-3760	H3760	1483	BOARDWALK	38.0703379467	-84.4834639323
HLX-3761	H3761	1487	BOARDWALK	38.0716546111	-84.4830980243
HLX-3762	H3762	4205	FORSYTHE DR	37.9964538513	-84.570522383
HLX-3763	H3763	4221	FORSYTHE DR	37.9956280424	-84.5706519165
HLX-3764	H3764	1917	COTTONWOOD DR	37.9957531332	-84.5718639594

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HLX-3765	H3765	1965	COTTONWOOD DR	37.995024041	-84.5729417707
HLX-3766	H3766	4285	FORSYTHE DR	37.9938937893	-84.5731121056
HLX-3767	H3767	4253	FORSYTHE DR	37.9945388248	-84.5714715448
HLX-3768	H3768	4305	FORSYTHE DR	37.9941841543	-84.574254954
HLX-3769	H3769	3941	GLADMAN WAY	37.9943975874	-84.5752859954
HLX-3770	H3770	3917	GLADMAN WAY	37.9955978891	-84.5751077993
HLX-3771	H3771	3889	GLADMAN WAY	37.9968530952	-84.5746486883
HLX-3772	H3772	1924	MINT JULEP LN	37.9955641104	-84.5740398767
HLX-3773	H3773	3849	PLANTATION DR	37.9967519281	-84.5736391508
HLX-3774	H3774	3824	PLANTATION DR	37.9966229426	-84.5721975003
HLX-3775	H3775	626	CADEN LN	38.0090585038	-84.427489615
HLX-3781	H3781	368	REDDING RD	37.9892600032	-84.5078296034
HLX-3782	H3782	3421	ALPINE CT	37.9901689776	-84.507300202
HLX-3783	H3783	3701	CROSBY DR	37.9722453573	-84.4857671292
HLX-3784	H3784	1207	TRENT BLVD	37.9713863487	-84.4861226976
HLX-3785	H3785	3665	SUNDART DR	37.9732736312	-84.4728408888
HLX-3786	H3786	1368	SEQUOIA DR	37.9739997622	-84.4727376634
HLX-3787	H3787	3713	SUNDART DR	37.9739485797	-84.4709567713
HLX-3788	H3788	1392	BEULAH PK	37.9747441011	-84.47133695
HLX-3789	H3789	3688	BOLD BIDDER DR	37.975281898	-84.4703283144
HLX-3790	H3790	3704	BOLD BIDDER DR	37.9744881755	-84.4698117732
HLX-3791	H3791	3620	BILORETE CT	37.9755307255	-84.4692118702
HLX-3792	H3792	3769	SUNDART DR	37.9751833375	-84.4681206956
HLX-3793	H3793	3636	REMORA DR	37.9760838502	-84.4684385753
HLX-3794	H3794	4532	GRAVES DR	37.9593261221	-84.5252144764
HLX-3795	H3795	348	SOUTHPOINT DR	37.9598838515	-84.523988364
HLX-3796	H3796	4508	GRAVES DR	37.9603523714	-84.523099614
HLX-3797	H3797	0	W HIGH ST	38.0485847753	-84.5028431577
HLX-3798	H3798	435	W HIGH ST	38.0481707622	-84.5023363525
HLX-3799	H3799	1789	TATES CREEK RD	38.013707214	-84.4954233106
HLX-3800	H3800	1402	VERSAILLES RD	38.0493912909	-84.5258916327
HLX-3801	H3801	2355	HARRODSBURG RD	38.0207761581	-84.5442340073
HLX-3802	H3802	0	OLD RICHMOND RD	37.9790604783	-84.4250916989
HLX-3803	H3803	120	DELONG RD	37.9686814	-84.4478934903

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HLX-3804	H3804	3513	BOSTON RD	37.9858212662	-84.5470434623
HLX-3805	H3805	484	CROMWELL WAY	37.9846742191	-84.5475439335
HLX-3806	H3806	456	CROMWELL WAY	37.9840627477	-84.545956225
HLX-3807	H3807	475	RETRAC RD	37.9848840095	-84.5454209827
HLX-3808	H3808	193	DONABROOK CT	37.9887323027	-84.5155251147
HLX-3809	H3809	241	PASADENA DR	38.0049623081	-84.5239345325
HLX-3810	H3810	185	PASADENA DR	38.0043215894	-84.5220433821
HLX-3811	H3811	441	SEVERN WAY	38.0029873293	-84.5305583689
HLX-3812	H3812	414	STONE RD	38.0059742988	-84.5290134634
HLX-3813	H3813	1352	STRAWBERRY LN	38.0102850989	-84.4890335742
HLX-3814	H3814	1331	STRAWBERRY LN	38.0108835282	-84.4901247372
HLX-3815	H3815	629	SUMMERSHADE CIR	38.0113502639	-84.4912922829
HLX-3816	H3816	715	LAKESHORE DR	38.0064410141	-84.4616857201
HLX-3817	H3817	827	LAKESHORE DR	38.0053539425	-84.4616559194
HLX-3818	H3818	80	LAKESHORE DR	38.0054399177	-84.4632449879
HLX-3819	H3819	768	LAKESHORE DR	38.0058416177	-84.4650983111
HLX-3820	H3820	747	LAKESHORE DR	38.0069590154	-84.4637061075
HLX-3821	H3821	3321	CARRIAGE LN	37.9838745416	-84.4658265466
HLX-3822	H3822	3345	CARRIAGE LN	37.9825833533	-84.4665018569
HLX-3823	H3823	3369	CARRIAGE LN	37.9813502134	-84.4669458223
HLX-3824	H3824	3913	SUNDART DR	37.9818276375	-84.464719735
HLX-3825	H3825	3873	SUNDART DR	37.9797703024	-84.4648544724
HLX-3826	H3826	1417	MT RAINIER DR	37.9803748804	-84.4666361362
HLX-3827	H3827	3201	BUCKHORN DR	37.9858673249	-84.4539516432
HLX-3828	H3828	3213	BUCKHORN DR	37.9848731037	-84.4538242863
HLX-3829	H3829	2928	MT MCKINLEY WAY	37.9808628972	-84.4612422874
HLX-3830	H3830	2969	MT MCKINLEY WAY	37.9792757179	-84.4619693155
HLX-3831	H3831	3245	MT FORAKER DR	37.9796137371	-84.4604442124
HLX-3832	H3832	3305	MT FORAKER DR	37.9793933649	-84.4592890445
HLX-3833	H3833	3336	MT FORAKER DR	37.9782912187	-84.4599897026
HLX-3834	H3834	3365	MT FORAKER DR	37.9782018398	-84.4616410567
HLX-3835	H3835	3384	MT FORAKER DR	37.9785028967	-84.4623499254
HLX-3839	H3839	3408	GRASMERE DR	37.9959053826	-84.5649051421
HLX-3840	H3840	3420	GRASMERE DR	37.9951995912	-84.5652094464

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3841	H3841	920	WITTHUHN WAY	37.9951202671	-84.567043101
HLX-3842	H3842	783	LONGWOOD RD	37.9939975904	-84.5671975116
HLX-3843	H3843	948	WITTHUHN WAY	37.9943850336	-84.5684686483
HLX-3844	H3844	1223	ACCORD DR	37.9783291908	-84.4869561564
HLX-3845	H3845	3646	APPIAN WAY	37.977033434	-84.4881124956
HLX-3846	H3846	1176	MILLCREEK DR	37.978171118	-84.48922749
HLX-3847	H3847	1189	ACCORD DR	37.97877437	-84.48824557
HLX-3848	H3848	640	EUREKA SPRINGS DR	37.9952465134	-84.455658868
HLX-3849	H3849	280	EASTHILLS DR	37.9950005639	-84.4547766892
HLX-3850	H3850	2833	EASTHILLS DR	37.9941522772	-84.4530193518
HLX-3851	H3851	2833	WINTER GDN	37.9935264902	-84.4553011364
HLX-3852	H3852	2861	WINTER GDN	37.9927573723	-84.4555721186
HLX-3853	H3853	2828	WINTER PARK DR	37.9939891992	-84.4568693209
HLX-3854	H3854	1370	DIX DR	37.9674768954	-84.4821153239
HLX-3857	H3857	1492	MT RAINIER DR	37.9808343827	-84.463137924
HLX-3858	H3858	390	SUNDART DR	37.9808215001	-84.4642808604
HLX-3859	H3859	2957	CANDLELIGHT WAY	38.005490776	-84.4916012863
HLX-3860	H3860	2917	CANDLELIGHT WAY	38.0068481715	-84.491337055
HLX-3865	H3865	3120	PIMLICO PKY	37.9861693721	-84.4609283037
HLX-3866	H3866	1178	TRENT BLVD	37.9712831324	-84.4881345134
HLX-3867	H3867	1187	TATESBROOK DR	37.9721326339	-84.4871003234
HLX-3868	H3868	720	LONGWOOD RD	37.9904399773	-84.5676255911
HLX-3869	H3869	3484	GRASMERE DR	37.9916580371	-84.5669934511
HLX-3870	H3870	744	LONGWOOD RD	37.9912712895	-84.5684654953
HLX-3871	H3871	755	LONGWOOD RD	37.9923803345	-84.5679077735
HLX-3872	H3872	1309	GRAY CT	37.9928425934	-84.5684397513
HLX-3873	H3873	3840	HOPEMONT DR	37.991328016	-84.571221072
HLX-3874	H3874	1816	HOPEMONT CT	37.9920643916	-84.5720389512
HLX-3875	H3875	3813	HOPEMONT DR	37.9925445064	-84.5709685735
HLX-3876	H3876	2498	SANDERSVILLE RD	38.0866730835	-84.5313113952
HLX-3877	H3877	2314	SANDERSVILLE RD	38.0865885265	-84.5212543702
HLX-3878	H3878	2370	SANDERSVILLE RD	38.0867116117	-84.5235506006
HLX-3879	H3879	2234	SANDERSVILLE RD	38.0861775863	-84.5162777808
HLX-3880	H3880	1608	IRON WORKS PIKE	38.118895195	-84.4472989717

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3881	H3881	3375	RUSSELL CAVE RD	38.1204077567	-84.4451194468
HLX-3882	H3882	1555	E NEW CIRCLE RD	38.0182656277	-84.4540110182
HLX-3883	H3883	1555	E NEW CIRCLE RD	38.0192528897	-84.4536865495
HLX-3884	H3884	1555	E NEW CIRCLE RD	38.0203044819	-84.4532302376
HLX-3885	H3885	1555	E NEW CIRCLE RD	38.021355604	-84.4530598928
HLX-3886	H3886	3632	LAREDO DR	37.981401533	-84.5041914346
HLX-3887	H3887	3369	DOWNING PL	37.9799000447	-84.5051158702
HLX-3888	H3888	3379	SPANGLER DR	37.9815408779	-84.5056102553
HLX-3889	H3889	3797	SUNDART DR	37.9758274371	-84.4669729739
HLX-3890	H3890	3740	KITTIWAKE DR	37.9773169809	-84.4679472597
HLX-3891	H3891	3797	KITTIWAKE DR	37.9784306085	-84.4674863503
HLX-3892	H3892	1421	JOCASTA DR	37.97950771	-84.4670425547
HLX-3893	H3893	3816	SUNDART DR	37.9771508028	-84.4660975225
HLX-3894	H3894	3849	SUNDART DR	37.9781440892	-84.4655669452
HLX-3895	H3895	1473	JOCASTA DR	37.9786467032	-84.4643746805
HLX-3896	H3896	680	WILSON DOWNING RD	37.9746679683	-84.5001328093
HLX-3897	H3897	6922	GREENWICH PIKE	38.1890903087	-84.3740002974
HLX-3898	H3898	6610	RUSSELL CAVE RD	38.1894072651	-84.4007421005
HLX-3899	H3899	6984	RUSSELL CAVE RD	38.1975793962	-84.396570044
HLX-3900	H3900	6921	RUSSELL CAVE RD	38.1956478919	-84.3975841899
HLX-3901	H3901	2554	PALUMBO DR	38.0150644709	-84.4417580921
HLX-3902	H3902	2570	PALUMBO DR	38.0144295307	-84.4408354944
HLX-3903	H3903	2599	PALUMBO DR	38.0137728705	-84.4399492301
HLX-3904	H3904	4097	PLANTAGENET DR	38.0396248791	-84.5749743078
HLX-3905	H3905	409	LENNEY DR	37.9774249924	-84.5095351826
HLX-3906	H3906	129	TRAFTON ST	38.0514165113	-84.5256375469
HLX-3907	H3907	107	TRAFTON ST	38.0503729928	-84.5256201412
HLX-3908	H3908	1307	BAKER CT	38.0753346357	-84.5156681571
HLX-3909	H3909	1301	BAKER CT	38.0766308253	-84.515595266
HLX-3910	H3910	1353	BAKER CT	38.0777981501	-84.51563593
HLX-3911	H3911	118	JAMES CT	38.0417269189	-84.4563245843
HLX-3912	H3912	137	JAMES CT	38.0411287118	-84.4552868613
HLX-3915	H3915	1014	RUSHWOOD CT	38.0804540946	-84.496490502
HLX-3916	H3916	3453	GRASMERE DR	37.9933604189	-84.5661662905

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3917	H3917	616	SUMMERSHADE CIR	38.0125348172	-84.4906827347
HLX-3918	H3918	617	CENTENNIAL LN	38.0122027271	-84.4894427218
HLX-3919	H3919	420	BLUE SKY PKY	37.9645444327	-84.3744048429
HLX-3920	H3920	489	BLUE SKY PKY	37.963760925	-84.3728652069
HLX-3921	H3921	549	BLUE SKY PKY	37.96441	-84.37364
HLX-3922	H3922	580	BLUE SKY PKY	37.961082039	-84.3735870733
HLX-3923	H3923	623	BLUE SKY PKY	37.9601751181	-84.3754379747
HLX-3924	H3924	649	BLUE SKY PKY	37.9593730878	-84.3769504519
HLX-3925	H3925	689	BLUE SKY PKY	37.9580549991	-84.3774332928
HLX-3926	H3926	330	SHOAL LAKE DR	37.986266465	-84.4553418059
HLX-3927	H3927	3285	SHOAL LAKE DR	37.986391746	-84.4571215724
HLX-3928	H3928	3253	SHOAL LAKE DR	37.9871354863	-84.4578513385
HLX-3929	H3929	3225	SHOAL LAKE DR	37.9884752159	-84.4569709563
HLX-3930	H3930	2817	SNOW RD	37.9938220663	-84.4582940696
HLX-3931	H3931	2840	SNOW RD	37.9928446847	-84.457498536
HLX-3932	H3932	2885	WINTER GDN	37.9917705634	-84.4566550835
HLX-3933	H3933	3141	WARRENWOOD WYND	37.9977345167	-84.4824441648
HLX-3934	H3934	3116	WARRENWOOD WYND	37.997960863	-84.4840353516
HLX-3935	H3935	3192	PEPPERHILL RD	37.9996088186	-84.4841626995
HLX-3936	H3936	981	CHINOE RD	38.0006405033	-84.4831810142
HLX-3937	H3937	949	CHINOE RD	38.0018784156	-84.4846854866
HLX-3938	H3938	2544	PALUMBO DR	38.0157400668	-84.4426535498
HLX-3939	H3939	2960	WINTER GDN	37.9930565274	-84.4589562241
HLX-3940	H3940	2908	WINTER GDN	37.9920083531	-84.4575288928
HLX-3941	H3941	0	OLD TODDS RD	38.0094551431	-84.4543456452
HLX-3942	H3942	150	TODDS RD	38.0098843476	-84.4536825987
HLX-3943	H3943	3515	RICHMOND RD	37.9956377459	-84.4392559579
HLX-3944	H3944	3480	YORKSHIRE MEDICAL PK	37.9965651576	-84.4378511276
HLX-3945	H3945	117	YORKSHIRE BLVD	37.9970073867	-84.4372124982
HLX-3946	H3946	175	YORKSHIRE BLVD	37.9983052875	-84.4353071158
HLX-3947	H3947	2974	EASTHILLS DR	37.9913636692	-84.4484224129
HLX-3948	H3948	459	WOODVIEW DR	37.9907415999	-84.4498862051
HLX-3949	H3949	2964	EASTHILLS DR	37.9919478438	-84.4493855201
HLX-3950	H3950	471	SQUIRES RD	37.9897542768	-84.4486679988

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HLX-3951	H3951	407	WOODVIEW DR	37.9925279927	-84.4477770174
HLX-3952	H3952	1075	GOODWIN DR	38.0454688057	-84.4620703365
HLX-3957	H3957	4208	CLEMENS DR	37.9920773834	-84.5769310424
HLX-3958	H3958	2025	LANGHORNE DR	37.9908916076	-84.5779841743
HLX-3959	H3959	1992	LANGHORNE DR	37.9906802712	-84.5763875284
HLX-3960	H3960	4261	CLEMENS DR	37.9893690725	-84.5767981034
HLX-3961	H3961	347	PASADENA DR	38.0062371454	-84.5275073336
HLX-3962	H3962	1687	ADIOS DR	38.1382057866	-84.5259375699
HLX-3963	H3963	330	CODELL DR	38.0181092713	-84.4530142548
HLX-3964	H3964	3458	TATES CREEK LN	37.9843524754	-84.4936369765
HLX-3965	H3965	3528	WINDING DR	37.9844149416	-84.4916081692
HLX-3966	H3966	50	HORTON CT	38.0854586563	-84.5394716508
HLX-3967	H3967	550	HORTON CT	38.0862232949	-84.5389598402
HLX-3969	H3969	383	WOODVIEW DR	37.9929282165	-84.4460344313
HLX-3971	H3971	203	PRICE RD	38.0629244292	-84.5147784036
HLX-3972	H3972	200	PRICE RD	38.060877512	-84.5156277527
HLX-3974	H3974	385	GREENDALE RD	38.0810010841	-84.534992773
HLX-3975	H3975	1619	DUNTREATH DR	38.0440224151	-84.5374179772
HLX-3976	H3976	942	WOLF RUN DR	38.0426629418	-84.5389227335
HLX-3977	H3977	1518	ROANOKE RD	38.0449098557	-84.5498955513
HLX-3978	H3978	3370	BEAVER CREEK DR	37.9918483138	-84.4470176787
HLX-3979	H3979	1303	STANLEY AVE	38.0309812841	-84.5160515527
HLX-3980	H3980	1152	TATESBROOK DR	37.9732934903	-84.488073542
HLX-3981	H3981	1107	TATESBROOK DR	37.974142635	-84.4897821476
HLX-3982	H3982	3601	FOX RUN RD	37.9724317945	-84.488452676
HLX-3983	H3983	1138	TRENT BLVD	37.9718277827	-84.4899792379
HLX-3984	H3984	4322	IRON WORKS PIKE	38.1461122995	-84.5269428628
HLX-3985	H3985	1263	E NEW CIRCLE RD	38.0306151324	-84.4523391349
HLX-3986	H3986	2142	CHRISTIAN RD	38.0307012322	-84.4507695338
HLX-3987	H3987	2179	CHRISTIAN RD	38.030086494	-84.4497009033
HLX-3988	H3988	3264	LOCH NESS DR	37.990633145	-84.5191393668
HLX-3989	H3989	3224	BUCKHORN DR	37.9844885288	-84.4526631483
HLX-3990	H3990	3249	BUCKHORN DR	37.9831862952	-84.4517139237
HLX-3991	H3991	3273	BUCKHORN DR	37.9820716769	-84.4515123947

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3992	H3992	330	BUCKHORN DR	37.9803356001	-84.4522074653
HLX-3993	H3993	3249	PEBBLE LAKE DR	37.9813753517	-84.453571433
HLX-3994	H3994	101	CRYSTAL CT	37.982443121	-84.4541066466
HLX-3995	H3995	2920	EASTHILLS DR	37.9931353455	-84.4515384647
HLX-3996	H3996	3057	TUSCALOOSA LN	37.9923856562	-84.4522028129
HLX-3997	H3997	2997	TUSCALOOSA LN	37.9920948161	-84.4529294386
HLX-3998	H3998	2949	EASTHILLS DR	37.9923772648	-84.4501778611
HLX-3999	H3999	2957	TUSCALOOSA LN	37.9907403638	-84.4511475125
HLX-4000	H4000	3683	GROVE LN	37.9762228986	-84.5020813019
HLX-4001	H4001	3670	WALDEN DR	37.9770969233	-84.5014714689
HLX-4002	H4002	3156	YELLOWSTONE PKY	37.9911075211	-84.4621932233
HLX-4003	H4003	2902	YELLOWSTONE PKY	37.9927850603	-84.460627961
HLX-4004	H4004	3177	CUSTER DR	37.9871547547	-84.460340908
HLX-4005	H4005	1175	MT RUSHMORE DR	37.9824541709	-84.4598258733
HLX-4006	H4006	3013	PIMLICO PKY	37.9831110428	-84.4582382753
HLX-4007	H4007	3039	PIMLICO PKY	37.9841700582	-84.4575928968
HLX-4008	H4008	1121	KALONE WAY	37.9855719787	-84.4577020484
HLX-4009	H4009	1147	KALONE WAY	37.9853935167	-84.4562080782
HLX-4010	H4010	1201	KALONE WAY	37.9838096697	-84.4564334889
HLX-4011	H4011	3229	VALHALLA DR	37.9824833589	-84.4565254683
HLX-4012	H4012	3083	PIMLICO PKY	37.9852119971	-84.4583215482
HLX-4013	H4013	1133	MT RUSHMORE WAY	37.9839400364	-84.4589095728
HLX-4014	H4014	1920	PARKERS MILL RD	38.0359520569	-84.5652626707
HLX-4015	H4015	184	ROSEMONT GDN	38.018690913	-84.5200769529
HLX-4016	H4016	148	ROSEMONT GDN	38.0179996601	-84.5180790646
HLX-4017	H4017	124	ROSEMONT GDN	38.0174783107	-84.5165959919
HLX-4018	H4018	1494	LEESTOWN RD	38.0651499223	-84.5229286583
HLX-4019	H4019	1432	LEESTOWN RD	38.064182061	-84.521541302
HLX-4020	H4020	559	S FORBES RD	38.0508561367	-84.5233341435
HLX-4021	H4021	5897	RICHMOND RD	37.9398627611	-84.4058303316
HLX-4022	H4022	252	RODES AVE	38.0426320176	-84.4993224769
HLX-4023	H4023	1101	CENTER PKY	37.9858509832	-84.4849191546
HLX-4029	H4029	3240	YELLOWSTONE PKY	37.9875602286	-84.4655765742
HLX-4030	H4030	3165	YELLOWSTONE PKY	37.9907784994	-84.4626350983

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 109 of 209
HLX-4031	H4031	1338	LEANING TREE LN	37.9915938949	-84.4644122749
HLX-4032	H4032	208	FORT HARRODS DR	38.009841535	-84.5623894847
HLX-4033	H4033	3350	NEVIUS DR	38.0108238286	-84.5608067071
HLX-4034	H4034	3330	NEVIUS DR	38.0114047553	-84.5597262862
HLX-4035	H4035	3395	SNAFFLE RD	38.0094564695	-84.5646151444
HLX-4036	H4036	2020	FORT HARRODS DR	38.0105333597	-84.5631074336
HLX-4037	H4037	3343	SNAFFLE RD	38.0114343239	-84.5615520321
HLX-4038	H4038	3310	SNAFFLE RD	38.012151141	-84.5604142313
HLX-4039	H4039	208	ERMINE CT	38.0105404233	-84.5644455981
HLX-4040	H4040	2040	FORT HARRODS DR	38.0114010678	-84.563996259
HLX-4041	H4041	2056	FORT HARRODS DR	38.0122251618	-84.5651231066
HLX-4042	H4042	2037	PARASOL DR	38.012367757	-84.5630133584
HLX-4043	H4043	2057	PARASOL DR	38.0130365204	-84.5644425214
HLX-4044	H4044	2020	BAMBOO DR	38.0129356424	-84.5620464388
HLX-4045	H4045	2053	BAMBOO DR	38.0138152732	-84.5638863358
HLX-4046	H4046	3378	MANTILLA DR	38.0111203699	-84.5660256952
HLX-4047	H4047	3422	SNAFFLE RD	38.009829153	-84.5666229958
HLX-4048	H4048	3719	TRENT CIR	37.9697861996	-84.4819966781
HLX-4049	H4049	2689	BEREA RD	38.1417210522	-84.515544548
HLX-4050	H4050	270	WILHITE DR	37.9980485592	-84.5207852852
HLX-4051	H4051	2691	WILHITE DR	37.9973765465	-84.5197036597
HLX-4052	H4052	2670	WILHITE DR	37.9965930395	-84.5189581919
HLX-4053	H4053	2631	WILHITE DR	37.9969301082	-84.5177840714
HLX-4054	H4054	601	W HIGH ST	38.0494850765	-84.5038321507
HLX-4055	H4055	2399	STERLINGTON RD	37.9921650866	-84.4615868272
HLX-4056	H4056	2363	STERLINGTON RD	37.9924723658	-84.4633209512
HLX-4057	H4057	2360	CHAUVIN DR	37.9935274112	-84.4629687128
HLX-4058	H4058	3897	HIDDEN SPRINGS DR	37.9799187025	-84.5610151989
HLX-4059	H4059	3949	HIDDEN SPRINGS DR	37.9791319042	-84.5590476432
HLX-4060	H4060	1037	WEDGEWOOD RD	37.9805993245	-84.5582099776
HLX-4061	H4061	3804	HIDDEN SPRINGS DR	37.9821795491	-84.5573431905
HLX-4062	H4062	3825	GRASSY CREEK DR	37.9835702461	-84.5567635373
HLX-4063	H4063	1117	BAY MEADOWS DR	37.9831048127	-84.5577293134
HLX-4064	H4064	1153	BAY MEADOWS DR	37.983863441	-84.5591866413

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4065	H4065	1133	WOOD RIDGE RD	37.9826540995	-84.5596108581
HLX-4066	H4066	1101	WOOD RIDGE RD	37.9816123247	-84.5586792333
HLX-4067	H4067	3861	HIDDEN SPRINGS DR	37.9812021553	-84.5600901901
HLX-4068	H4068	3805	GRASSY CREEK DR	37.9846416129	-84.5563838302
HLX-4069	H4069	1367	STRAWBERRY LN	38.0093290437	-84.4876922781
HLX-4070	H4070	70	TURF CT	38.0082737642	-84.4865364284
HLX-4071	H4071	1380	STRAWBERRY LN	38.0086822187	-84.4870392326
HLX-4072	H4072	3772	CAMELOT DR	37.9748591601	-84.5100889787
HLX-4073	H4073	437	LENNEY DR	37.9764562047	-84.5084550644
HLX-4074	H4074	168	BURT RD	38.0078877108	-84.5207004986
HLX-4075	H4075	3141	HIGH RIDGE DR	37.9886098556	-84.4611977579
HLX-4076	H4076	3118	HIGH RIDGE DR	37.9896394132	-84.4611052566
HLX-4077	H4077	3868	GLOUCESTER DR	38.0505708383	-84.6340702995
HLX-4078	H4078	3613	LAREDO DR	37.9819585849	-84.5068613992
HLX-4079	H4079	3573	LAREDO DR	37.98353	-84.50744
HLX-4080	H4080	3512	LAREDO DR	37.9846429794	-84.5085270617
HLX-4081	H4081	3466	LAREDO DR	37.986225631	-84.5083578928
HLX-4082	H4082	208	DES COGNETS LN	37.9990581478	-84.4785230465
HLX-4083	H4083	3509	CHEDDINGTON LN	37.9984666478	-84.479510807
HLX-4084	H4084	1071	CHINOE RD	37.9968124921	-84.4813624693
HLX-4085	H4085	1105	CHINOE RD	37.9949698943	-84.4819091273
HLX-4086	H4086	1124	DUNBARTON LN	37.9947106319	-84.4810832118
HLX-4087	H4087	1128	CHINOE RD	37.9932179361	-84.4822850373
HLX-4088	H4088	1029	CHINOE RD	37.9992861047	-84.4804033219
HLX-4089	H4089	702	CAMINO DR	38.0115710271	-84.4937393063
HLX-4090	H4090	692	ELK LAKE DR	37.9954477933	-84.4539505571
HLX-4091	H4091	3155	BEAVER CREEK DR	37.9972807099	-84.4531421102
HLX-4092	H4092	612	HIDDEN POINT DR	37.996995275	-84.4519841692
HLX-4093	H4093	620	ELK LAKE DR	37.9960491762	-84.4511394007
HLX-4094	H4094	661	ELK LAKE DR	37.9951630444	-84.4525557735
HLX-4095	H4095	724	NAKOMI DR	38.0121841016	-84.5489354571
HLX-4096	H4096	1301	GRAY HAWK RD	38.0101870518	-84.491868925
HLX-4097	H4097	1141	TURKEY FOOT RD	38.0086918193	-84.4912357304
HLX-4098	H4098	1316	GRAY HAWK RD	38.0093519344	-84.4900864294

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4099	H4099	110	TURKEY FOOT RD	38.0080689401	-84.488811579
HLX-4100	H4100	435	PASADENA DR	38.0084630288	-84.5315814656
HLX-4102	H4102	451	LAMONT DR	38.0076285932	-84.5318669565
HLX-4103	H4103	475	LAMONT DR	38.0082326798	-84.5333475121
HLX-4104	H4104	3264	BOWIE DR	37.9917131463	-84.4682619242
HLX-4105	H4105	1309	POST OAK RD	37.9911778797	-84.4667501279
HLX-4106	H4106	3191	AQUEDUCT DR	37.9925368555	-84.4663516757
HLX-4107	H4107	3215	AQUEDUCT DR	37.9935657648	-84.4671687994
HLX-4108	H4108	4528	MANDEVILLE WAY	37.9585551428	-84.5220281179
HLX-4109	H4109	519	MICHIGAN ST	38.0632336836	-84.5008941289
HLX-4110	H4110	209	SAWYER CT	37.984477829	-84.5782431828
HLX-4111	H4111	4353	CALEVARES DR	37.98493179	-84.57732605
HLX-4112	H4112	4353	CLEMENS DR	37.9855863791	-84.5789741878
HLX-4113	H4113	4325	CLEMENS DR	37.9867883762	-84.5792605455
HLX-4114	H4114	4308	CLEMENS DR	37.9879095773	-84.5784905267
HLX-4115	H4115	1992	TWAIN RIDGE DR	37.9886135945	-84.5772946499
HLX-4116	H4116	1976	TWAIN RIDGE DR	37.9876584865	-84.5767209696
HLX-4117	H4117	4328	CALEVARES DR	37.9861220518	-84.5772328278
HLX-4118	H4118	2029	HUCKLEBERRY CIR	37.9869081798	-84.5781341696
HLX-4119	H4119	2024	TWAIN RIDGE DR	37.9897835136	-84.5784698403
HLX-4120	H4120	50	SOUTHWIND TER	37.9772557266	-84.5045416069
HLX-4121	H4121	501	BAYBERRY BEND	37.9782878185	-84.5041227575
HLX-4122	H4122	3435	GATEWOOD CT	37.9835834334	-84.5061572862
HLX-4123	H4123	1539	KILKENNY DR	38.0514508301	-84.4516937933
HLX-4124	H4124	1825	HISLE WAY	38.0506208376	-84.4507977472
HLX-4125	H4125	1115	E NEW CIRCLE RD	38.0342699738	-84.4534813814
HLX-4126	H4126	1206	E NEW CIRCLE RD	38.0315685636	-84.4530257236
HLX-4127	H4127	1931	LIBERTY RD	38.0304669615	-84.4557015254
HLX-4128	H4128	450	E NEW CIRCLE RD	38.0557180139	-84.460922047
HLX-4129	H4129	565	E NEW CIRCLE RD	38.0525532894	-84.4573920245
HLX-4130	H4130	122	E NEW CIRCLE RD	38.0645045917	-84.4695574647
HLX-4131	H4131	185	E NEW CIRCLE RD	38.0628740211	-84.4674147842
HLX-4132	H4132	100	W NEW CIRCLE RD	38.0750047602	-84.5006563475
HLX-4133	H4133	228	E NEW CIRCLE RD	38.0615257159	-84.466582036

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 112 of 209
HLX-4134	H4134	399	E NEW CIRCLE RD	38.057696392	-84.4623451697
HLX-4135	H4135	360	BOILING SPRINGS DR	38.0743939178	-84.5213014824
HLX-4136	H4136	329	LARCH LN	38.0722426159	-84.5210781675
HLX-4137	H4137	630	MAXWELTON CT	38.0369108064	-84.5087368246
HLX-4138	H4138	4696	LEESTOWN RD	38.1198744235	-84.6015300743
HLX-4139	H4139	4020	GEORGETOWN RD	38.1369497052	-84.5335783621
HLX-4140	H4140	509	E MAXWELL ST	38.0360589519	-84.4931409466
HLX-4141	H4141	0	OLD RICHMOND RD	37.9092703107	-84.3589585218
HLX-4143	H4143	740	W NEW CIRCLE RD	38.0731982163	-84.4849169609
HLX-4144	H4144	2532	REGENCY RD	38.0020091106	-84.5243862207
HLX-4145	H4145	2514	REGENCY RD	38.0025211066	-84.5243992831
HLX-4146	H4146	2519	REGENCY RD	38.0030483632	-84.5246488979
HLX-4147	H4147	899	CORPORATE DR	38.0131082224	-84.5543179278
HLX-4148	H4148	861	CORPORATE DR	38.0120302971	-84.5533347173
HLX-4149	H4149	841	CORPORATE DR	38.0111638322	-84.5524862908
HLX-4150	H4150	821	CORPORATE DR	38.0110770201	-84.5506296241
HLX-4151	H4151	777	CORPORATE DR	38.0127608856	-84.5510897762
HLX-4152	H4152	761	CORPORATE DR	38.0138831208	-84.5534657932
HLX-4153	H4153	279	LAKE WALES DR	37.9977728638	-84.4477720919
HLX-4154	H4154	388	ROOKWOOD PKY	38.0615383749	-84.4610560891
HLX-4155	H4155	372	ROOKWOOD PKY	38.0620390933	-84.4618172029
HLX-4156	H4156	352	ROOKWOOD PKY	38.0627664226	-84.4626034075
HLX-4157	H4157	1931	STANTON WAY	38.1013301409	-84.4818010313
HLX-4160	H4160	637	THE CURTILAGE	38.0135153839	-84.4928069611
HLX-4161	H4161	1121	NANDINO BLVD	38.0780257991	-84.5068657758
HLX-4162	H4162	1017	TROTWOOD DR	38.0789446655	-84.5057750558
HLX-4163	H4163	107	PRIMROSE CT	38.0782251468	-84.5034291997
HLX-4164	H4164	1022	BRENTWOOD CT	38.0776994777	-84.499252004
HLX-4165	H4165	4085	HARRODSBURG RD	38.0003778653	-84.5775316219
HLX-4166	H4166	337	SQUIRES RD	37.9915559205	-84.4453478175
HLX-4167	H4167	301	SQUIRES RD	37.9928061127	-84.4439181092
HLX-4168	H4168	3001	BLAKE JAMES DR	38.0091674688	-84.4364495222
HLX-4169	H4169	2750	PALUMBO DR	38.0083651286	-84.4362740803
HLX-4170	H4170	2770	PALUMBO DR	38.0073279963	-84.4360834731

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4171	H4171	2801	PALUMBO DR	38.0063159401	-84.4358447089
HLX-4172	H4172	2845	PALUMBO DR	38.0052564084	-84.4355291901
HLX-4173	H4173	2875	PALUMBO DR	38.0043980184	-84.4345508951
HLX-4174	H4174	301	DARBY CREEK RD	38.0037493421	-84.4332454462
HLX-4175	H4175	361	DARBY CREEK RD	38.0045647024	-84.4327350208
HLX-4176	H4176	409	DARBY CREEK RD	38.0052368482	-84.4321382206
HLX-4177	H4177	3701	BELLEAU WOOD DR	37.97138	-84.5096
HLX-4178	H4178	640	PEBBLE CREEK DR	37.9747057058	-84.5009795389
HLX-4179	H4179	155	MIDLAND AVE	38.0414190828	-84.488591958
HLX-4180	H4180	1030	MILLCREEK CT	37.9787461605	-84.4908127182
HLX-4181	H4181	1706	HAWTHORNE LN	38.0711118253	-84.4712497415
HLX-4182	H4182	1720	HAWTHORNE LN	38.0706375369	-84.4695987908
HLX-4183	H4183	2909	PALUMBO DR	38.0028530996	-84.4317905007
HLX-4184	H4184	305	BAINBRIDGE DR	38.0038141029	-84.4310941797
HLX-4185	H4185	317	BAINBRIDGE DR	38.0047577719	-84.4300790888
HLX-4186	H4186	404	BAINBRIDGE CT	38.0048181823	-84.4290822274
HLX-4187	H4187	408	BAINBRIDGE CT	38.0055986504	-84.4285882915
HLX-4188	H4188	304	LINDENHURST DR	38.0039559195	-84.4283750629
HLX-4189	H4189	390	LINDENHURST DR	38.0043432026	-84.4273433621
HLX-4190	H4190	305	LINDENHURST DR	38.0031298936	-84.4296622319
HLX-4191	H4191	2925	PALUMBO DR	38.0023039766	-84.4309623492
HLX-4192	H4192	4715	RICHMOND RD	37.9681263004	-84.4210605414
HLX-4193	H4193	0	OLD RICHMOND RD	37.9588642272	-84.4156479358
HLX-4194	H4194	3787	PARKERS MILL RD	38.0261109378	-84.5961393031
HLX-4195	H4195	1251	GEORGETOWN RD	38.0782369692	-84.5076772321
HLX-4196	H4196	180	HARRODSBURG RD	38.0288474942	-84.5308804302
HLX-4197	H4197	1103	TRENT BLVD	37.9726009546	-84.4918799266
HLX-4199	H4199	597	CECIL WAY	38.0094833422	-84.5407712893
HLX-4200	H4200	572	CECIL WAY	38.0089357233	-84.5393159252
HLX-4201	H4201	3853	MCGARRY DR	37.9789012591	-84.5578693904
HLX-4202	H4202	105	SPRING RUN RD	37.978270648	-84.5562856111
HLX-4203	H4203	3816	LEE ADAMS LN	37.9777703851	-84.5546807978
HLX-4204	H4204	3836	LEE ADAMS LN	37.9769692147	-84.5552829323
HLX-4205	H4205	916	KRISSY WAY	37.9773400267	-84.556477423

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4206	H4206	3844	LEE ADAMS LN	37.9764203107	-84.5555679955
HLX-4207	H4207	932	BORDALLO DR	37.9770256449	-84.5577290942
HLX-4208	H4208	105	ALBERT LN	37.9775821515	-84.5599499362
HLX-4209	H4209	3876	MCGARRY DR	37.9779760762	-84.5588604998
HLX-4210	H4210	1028	MOYLAN LN	37.9785855775	-84.5602839999
HLX-4211	H4211	3864	LEE ADAMS LN	37.975575344	-84.5560824023
HLX-4212	H4212	3880	LEE ADAMS LN	37.9747534356	-84.5565617685
HLX-4213	H4213	929	GREGORY WAY	37.9755176961	-84.5581880974
HLX-4214	H4214	3989	WEBER WAY	37.976032034	-84.5600749215
HLX-4215	H4215	3961	WEBER WAY	37.9768595774	-84.5595466429
HLX-4216	H4216	3928	WEBER WAY	37.9762055697	-84.5577727255
HLX-4217	H4217	1992	SHADYBROOK LN	38.0014935985	-84.4770397177
HLX-4218	H4218	2308	LAKESIDE DR	38.0007867142	-84.4774954879
HLX-4219	H4219	3537	COLT NECK LN	37.9997116694	-84.4774538527
HLX-4220	H4220	3517	COLT NECK LN	37.9999043589	-84.4791686549
HLX-4221	H4221	2013	IMPALA LN	38.0010921345	-84.4791445639
HLX-4222	H4222	3212	SWEETWATER CT	37.9812672447	-84.4512888453
HLX-4223	H4223	3216	COOL WATER DR	37.9829103847	-84.4503824776
HLX-4224	H4224	3228	COOL WATER DR	37.9824106073	-84.4498143569
HLX-4225	H4225	3208	MIST LAKE CT	37.985783659	-84.4517182859
HLX-4226	H4226	409	NICHOLASVILLE RD	37.9802742938	-84.5287530211
HLX-4227	H4227	104	W TIVERTON WAY	37.9805714599	-84.5297412416
HLX-4228	H4228	148	W TIVERTON WAY	37.98119	-84.53175
HLX-4229	H4229	3993	MALL RD	37.9821530161	-84.5322252666
HLX-4230	H4230	705	CADEN LN	38.0104223039	-84.4291625961
HLX-4231	H4231	580	KINGPOST CT	37.9618156394	-84.3720948216
HLX-4232	H4232	5816	KINGPOST CT	37.9616004393	-84.3716367724
HLX-4233	H4233	0	OLD FRANKFORT PIKE	38.0583846045	-84.5272542584
HLX-4234	H4234	3920	GRASSY CREEK DR	37.9790483935	-84.554101636
HLX-4235	H4235	3813	JOSHUA CIR	37.9792646591	-84.5552111236
HLX-4236	H4236	3854	JOSHUA CIR	37.9792881256	-84.5562956318
HLX-4237	H4237	3892	GRASSY CREEK DR	37.9800709953	-84.5550609091
HLX-4238	H4238	3729	BELLEAU WOOD DR	37.9740633879	-84.5031168977
HLX-4239	H4239	3753	BELLEAU WOOD DR	37.9732027081	-84.5040176223

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4240	H4240	3772	BELLEAU WOOD DR	37.9729515883	-84.5053934137
HLX-4241	H4241	593	GREENFIELD DR	37.9737077778	-84.5047267021
HLX-4242	H4242	3728	FOREST GREEN DR	37.9736561979	-84.5012960522
HLX-4243	H4243	3720	DICKSONIA DR	37.972531957	-84.5018577283
HLX-4244	H4244	3760	DICKSONIA DR	37.9713690094	-84.5033680379
HLX-4245	H4245	3761	FOREST GREEN DR	37.9717714434	-84.5010087898
HLX-4246	H4246	3797	FOREST GREEN DR	37.9705255384	-84.5018766585
HLX-4247	H4247	2912	NEAL DR	38.0085838637	-84.5385407446
HLX-4248	H4248	569	ASHLEY WAY	38.0093255911	-84.5378803742
HLX-4249	H4249	530	ASHLEY WAY	38.0082298528	-84.5376609373
HLX-4250	H4250	486	ASHLEY WAY	38.0073777136	-84.5387472808
HLX-4251	H4251	2566	RICHMOND RD	38.0111969178	-84.4571450381
HLX-4252	H4252	101	N MT TABOR RD	38.0056761243	-84.4502047019
HLX-4253	H4253	151	N MT TABOR RD	38.0070527534	-84.4485203724
HLX-4254	H4254	0	N MT TABOR RD	38.0074693928	-84.4479444589
HLX-4255	H4255	1065	NEWTOWN PIKE	38.0773515682	-84.4943994899
HLX-4256	H4256	805	NEWTOWN CIR	38.0777023027	-84.4953736365
HLX-4257	H4257	3660	APPIAN WAY	37.9767065592	-84.4885495197
HLX-4258	H4258	1197	APPIAN CROSSING WAY	37.9761798362	-84.4896045488
HLX-4259	H4259	3685	APPIAN WAY	37.9751802302	-84.4905107091
HLX-4260	H4260	3569	BUCKHORN DR	37.9761459184	-84.4645198599
HLX-4261	H4261	1577	DEER LAKE DR	37.9757068796	-84.4632972573
HLX-4262	H4262	3233	CADDO LAKE CT	37.9767595093	-84.4634370441
HLX-4263	H4263	3520	BUCKHORN DR	37.9754840818	-84.4617127764
HLX-4264	H4264	3497	BUCKHORN DR	37.975937891	-84.4601855443
HLX-4266	H4266	1225	RED MILE RD	38.0400644903	-84.516997264
HLX-4267	H4267	1161	RED MILE RD	38.0399952195	-84.5193080839
HLX-4268	H4268	1125	RED MILE RD	38.0396659756	-84.5209079286
HLX-4269	H4269	1051	RED MILE RD	38.0396327451	-84.5222702732
HLX-4270	H4270	979	RED MILE RD	38.0406159794	-84.5235834412
HLX-4271	H4271	925	RED MILE RD	38.0416192639	-84.5241433872
HLX-4272	H4272	901	RED MILE RD	38.042514929	-84.5243290537
HLX-4273	H4273	845	RED MILE RD	38.0440297351	-84.5239962746
HLX-4274	H4274	735	RED MILE RD	38.0399232	-84.52254208

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4275	H4275	711	RED MILE RD	38.0471814167	-84.5236802949
HLX-4276	H4276	2365	HARRODSBURG RD	38.0196728184	-84.545642881
HLX-4277	H4277	2201	HIGBEE MILL RD	37.9948756991	-84.5796543131
HLX-4278	H4278	3110	SPURR RD	38.1093222773	-84.5360691559
HLX-4279	H4279	1095	S BROADWAY	38.0366385932	-84.5180867147
HLX-4281	H4281	1121	TANBARK RD	37.9680930105	-84.4945183577
HLX-4282	H4282	1139	TANBARK RD	37.9682861981	-84.4930071641
HLX-4283	H4283	1156	TANBARK RD	37.9684659035	-84.4915598362
HLX-4284	H4284	1169	TANBARK RD	37.9680660958	-84.4906900577
HLX-4285	H4285	1185	TANBARK RD	37.9673701709	-84.4891631472
HLX-4286	H4286	340	LIMA DR	38.0740917802	-84.5143261315
HLX-4287	H4287	3101	CLAYS MILL RD	38.002893746	-84.5449704192
HLX-4288	H4288	20	BIG RUN RD	37.9992108299	-84.5271081429
HLX-4289	H4289	20	GOLD RUSH RD	38.0004231058	-84.5270473584
HLX-4290	H4290	191	W LOUDON AVE	38.0604025668	-84.4849496695
HLX-4291	H4291	3575	NEWTOWN PIKE	38.1394585582	-84.4883824502
HLX-4292	H4292	2878	NEWTOWN PIKE	38.1196732657	-84.4847189426
HLX-4293	H4293	3761	NIAGARA DR	37.9664355213	-84.4813617623
HLX-4294	H4294	556	MERRIMAC DR	37.9878997312	-84.5511036489
HLX-4295	H4295	546	FOGO CT	37.9882788855	-84.5501195229
HLX-4296	H4296	2401	REGENCY RD	38.0050914149	-84.5248877851
HLX-4297	H4297	2417	REGENCY RD	38.0044691867	-84.5249794672
HLX-4298	H4298	2433	REGENCY RD	38.003728673	-84.5250603614
HLX-4299	H4299	2499	WINCHESTER RD	38.0409300158	-84.4170515373
HLX-4300	H4300	708	MASON HEADLEY RD	38.0357398725	-84.5288730001
HLX-4301	H4301	70	MASON HEADLEY RD	38.035284351	-84.527827389
HLX-4302	H4302	3241	VALHALLA DR	37.9820977893	-84.4562225735
HLX-4303	H4303	3293	VALHALLA DR	37.9813611678	-84.4561899655
HLX-4304	H4304	3333	VALHALLA DR	37.980459628	-84.4568952921
HLX-4305	H4305	1324	CENTER PKY	37.98174	-84.4756
HLX-4306	H4306	150	WELLESLEY HEIGHTS WAY	38.0438237524	-84.576350375
HLX-4307	H4307	360	WINDGATE WAY	37.979246518	-84.5027660643
HLX-4308	H4308	1079	TATESBROOK DR	37.9748507894	-84.4912288439
HLX-4309	H4309	1040	TATESBROOK DR	37.9754566067	-84.4925380162

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4310	H4310	108	TATESBROOK DR	37.9759279696	-84.4935045819
HLX-4311	H4311	1024	REILUS CT	37.974238346	-84.4928852403
HLX-4312	H4312	1043	TRENT BLVD	37.9744237768	-84.4939862739
HLX-4313	H4313	122	ZESTA PL	38.0418447431	-84.4755615875
HLX-4314	H4314	124	ZESTA PL	38.0425250749	-84.4757409631
HLX-4315	H4315	204	E REYNOLDS RD	37.9894591763	-84.5184693404
HLX-4316	H4316	3781	NIAGARA DR	37.9665453789	-84.4823447968
HLX-4317	H4317	452	LENNEY DR	37.9754924234	-84.5090457337
HLX-4318	H4318	464	LARKWOOD DR	38.0133521089	-84.4433241988
HLX-4319	H4319	492	LARKWOOD DR	38.0124212073	-84.44414654
HLX-4320	H4320	209	FAIRLEAF PL	38.0114686572	-84.4437061463
HLX-4321	H4321	217	SHADOW WOOD PL	38.0104957928	-84.4431145661
HLX-4322	H4322	312	BENT BOUGH PL	38.0106407362	-84.442178889
HLX-4323	H4323	3456	LYON DR	38.0110809687	-84.5699672871
HLX-4324	H4324	3426	LYON DR	38.0122591975	-84.5692821905
HLX-4325	H4325	3359	RIDGECAVE RD	38.014494551	-84.5648720194
HLX-4326	H4326	3450	SNAFFLE RD	38.0104503476	-84.5683390691
HLX-4327	H4327	2121	FORT HARRODS DR	38.0135378946	-84.56868602
HLX-4328	H4328	3301	GONDOLA DR	38.0131718079	-84.5676086166
HLX-4329	H4329	3317	GONDOLA DR	38.0121338602	-84.568066513
HLX-4330	H4330	2081	FORT HARRODS DR	38.0127570205	-84.5665121751
HLX-4331	H4331	3312	PASTERN CT	38.01177413	-84.5669638157
HLX-4332	H4332	2140	FORT HARRODS DR	38.0138336095	-84.5700010673
HLX-4333	H4333	3297	LYON DR	38.0134708932	-84.5713535708
HLX-4334	H4334	2213	FORT HARRODS DR	38.0131492602	-84.5724808873
HLX-4335	H4335	4301	ATHENS BOONESBORO RD	37.9801264701	-84.4191512639
HLX-4336	H4336	4441	ATHENS BOONESBORO RD	37.9779266979	-84.4153959305
HLX-4337	H4337	3837	TROUT CT	37.9655410843	-84.4807531052
HLX-4338	H4338	1333	GRAFTON DR	37.9815326935	-84.4571770828
HLX-4339	H4339	5590	ATHENS WALNUT HILL PIKE	37.9502468413	-84.3868948929
HLX-4340	H4340	3751	APPIAN WAY	37.9741741503	-84.4951661813
HLX-4341	H4341	3943	SPURR RD	38.1154769906	-84.5601507546
HLX-4342	H4342	2254	CAVE HILL LN	38.0117501834	-84.5737734795
HLX-4343	H4343	833	LANE ALLEN RD	38.0296841592	-84.5401540668

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4344	H4344	3224	BRACKTOWN RD	38.095092954	-84.5643831733
HLX-4345	H4345	3812	NIAGARA DR	37.9667077842	-84.4832376359
HLX-4346	H4346	3833	NIAGARA DR	37.9675273593	-84.4845377443
HLX-4347	H4347	386	PATCHEN DR	38.0026443077	-84.4552222554
HLX-4348	H4348	358	PATCHEN DR	38.0036163165	-84.4564960278
HLX-4349	H4349	388	PLAINVIEW RD	38.0039116786	-84.4587474592
HLX-4350	H4350	331	PATCHEN DR	38.0047138926	-84.4576640685
HLX-4351	H4351	304	CHIPPEN DALE CIR	38.0049609102	-84.458360032
HLX-4352	H4352	288	CHIPPEN DALE CIR	38.0053934083	-84.4594150458
HLX-4353	H4353	208	CHIPPEN DALE CIR	38.00539	-84.45942
HLX-4354	H4354	295	PATCHEN DR	38.005685956	-84.4579115113
HLX-4355	H4355	175	N LOCUST HILL DR	38.0059245182	-84.4421499273
HLX-4356	H4356	2949	RIO DOSA DR	38.0069137074	-84.4435257771
HLX-4357	H4357	2909	RIO DOSA DR	38.0080972076	-84.4445341819
HLX-4358	H4358	3069	BONANZA DR	38.0083377827	-84.4425846679
HLX-4359	H4359	2937	CEDARCREST DR	38.0026681887	-84.4567989891
HLX-4360	H4360	2909	CEDARCREST DR	38.0034611767	-84.4580152074
HLX-4361	H4361	477	CHANNING WAY	38.0027771687	-84.4591317693
HLX-4362	H4362	601	ELK LAKE DR	37.9974343896	-84.4511736948
HLX-4363	H4363	3203	BEAVER CREEK DR	37.9971130133	-84.4496909104
HLX-4364	H4364	1261	FENWICK RD	37.978989085	-84.454644476
HLX-4365	H4365	1225	FENWICK RD	37.9796527891	-84.4557740851
HLX-4366	H4366	3320	TAHOE RD	37.9804129775	-84.4547287641
HLX-4367	H4367	5301	JAMES LN	38.010053822	-84.6356502833
HLX-4369	H4369	628	WELLINGTON WAY	38.00175	-84.54635
HLX-4370	H4370	2291	ELKHORN RD	38.04173	-84.42429
HLX-4371	H4371	2271	ELKHORN RD	38.0422963334	-84.4237866786
HLX-4372	H4372	2261	ELKHORN RD	38.042901124	-84.4233250371
HLX-4373	H4373	2340	BUENA VISTA RD	38.0417587314	-84.4228818712
HLX-4374	H4374	2351	BUENA VISTA RD	38.0418871034	-84.4214764066
HLX-4375	H4375	2369	BUENA VISTA RD	38.0427903295	-84.4206777504
HLX-4376	H4376	3501	TRINIDAD CT	38.0263326337	-84.3847273722
HLX-4377	H4377	3508	TRINIDAD CT	38.0257470523	-84.3826716333
HLX-4378	H4378	3454	BUCKHORN DR	37.9761663276	-84.4564798941

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HLX-4379	H4379	3380	SMOKY MOUNTAIN DR	37.9773524058	-84.4554757833
HLX-4380	H4380	3344	SMOKY MOUNTAIN DR	37.9780655375	-84.4574801106
HLX-4381	H4381	3320	SMOKY MOUNTAIN DR	37.9791443969	-84.4578484325
HLX-4382	H4382	2505	PARIS PIKE	38.0836046347	-84.4432539999
HLX-4384	H4384	2695	PARIS PIKE	38.086336166	-84.4390961441
HLX-4385	H4385	2795	PARIS PIKE	38.087890436	-84.4367327673
HLX-4386	H4386	120	RUSSELL CAVE RD	38.0681723124	-84.4809952694
HLX-4387	H4387	1314	RUSSELL CAVE RD	38.06884978	-84.4798706469
HLX-4388	H4388	625	MT TABOR RD	37.9952774428	-84.4598899708
HLX-4389	H4389	2044	BUCK LN	38.08474491	-84.53799359
HLX-4390	H4390	180	NEWTOWN PIKE	38.0935483425	-84.4867854109
HLX-4391	H4391	3650	TATES CREEK RD	37.9814512127	-84.4958415617
HLX-4392	H4392	3776	TATES CREEK PIKE	37.9790186865	-84.4976145468
HLX-4393	H4393	2089	BAHAMA RD	38.0233132572	-84.383464932
HLX-4394	H4394	2149	MARQUESAS LN	38.0238158724	-84.3842783268
HLX-4395	H4395	2116	MARQUESAS LN	38.0228375509	-84.385356784
HLX-4396	H4396	3596	ANTILLES DR	38.0218598568	-84.3841321601
HLX-4397	H4397	3628	ANTILLES DR	38.0223647111	-84.3828404681
HLX-4398	H4398	2132	ANTIGUA DR	38.0234805931	-84.3864527681
HLX-4399	H4399	3533	ANTILLES DR	38.0221740139	-84.3874018257
HLX-4400	H4400	3565	ANTILLES DR	38.0218032615	-84.3858480412
HLX-4401	H4401	1520	DEER LAKE DR	37.9749943906	-84.4656122876
HLX-4402	H4402	1360	DEER LAKE CIR	37.9744985028	-84.4667313477
HLX-4403	H4403	1428	DEER LAKE CIR	37.973902289	-84.4667792252
HLX-4404	H4404	1476	DEER LAKE CIR	37.9741721407	-84.4661189276
HLX-4405	H4405	3301	HARTSTON DR	37.9760921634	-84.4589771908
HLX-4406	H4406	2301	THE WOODS LN	37.9978250646	-84.4718314663
HLX-4407	H4407	2109	WOODLEY CIR	37.9969400466	-84.4711535041
HLX-4408	H4408	2312	THE WOODS LN	37.9966655137	-84.4723527901
HLX-4409	H4409	2329	THE WOODS LN	37.9960754343	-84.4734308385
HLX-4410	H4410	2128	WOODMONT DR	37.9952771058	-84.4718531498
HLX-4411	H4411	533	WALLER AVE	38.0329722766	-84.5229918269
HLX-4412	H4412	3355	RICE RD	38.0481545001	-84.6138630691
HLX-4413	H4413	3995	ROSALIE RD	38.0430801173	-84.6238492592

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4414	H4414	174	DONABROOK CT	37.989517306	-84.5160758018
HLX-4415	H4415	3324	FEATHERSTON DR	37.9740564475	-84.4558189936
HLX-4416	H4416	3356	FEATHERSTON DR	37.973023981	-84.4569599061
HLX-4417	H4417	3401	FEATHERSTON DR	37.9717205299	-84.458121232
HLX-4418	H4418	3519	MARRS WAY	37.9716419905	-84.4593776193
HLX-4419	H4419	3424	FEATHERSTON DR	37.9723978487	-84.4593486972
HLX-4420	H4420	3474	BUCKHORN DR	37.9760400003	-84.4580583544
HLX-4421	H4421	3349	ROYAL WOOD RD	37.9750667876	-84.4578455525
HLX-4422	H4422	3337	HARTSTON DR	37.9746236275	-84.4591621746
HLX-4423	H4423	3364	HARTSTON DR	37.97366796	-84.4582906596
HLX-4424	H4424	3377	KENESAW DR	37.9717784088	-84.4637014129
HLX-4425	H4425	1737	PRAIRIE CIR	37.9707583237	-84.462317383
HLX-4426	H4426	1661	PRAIRIE CIR	37.9711171709	-84.4613747781
HLX-4427	H4427	1625	PRAIRIE CIR	37.9715016049	-84.4625452075
HLX-4428	H4428	1920	STANTON WAY	38.100869798	-84.4819484152
HLX-4429	H4429	1927	STANTON WAY	38.1007147843	-84.4812745871
HLX-4431	H4431	5100	ATHENS BOONESBORO RD	37.9683582286	-84.3981804161
HLX-4432	H4432	4701	CLOVER CRK	37.9515296101	-84.4123199957
HLX-4433	H4433	1201	EVANS MILL RD	37.9335379867	-84.3908962559
HLX-4434	H4434	1098	E NEW CIRCLE RD	38.0348072798	-84.4541208283
HLX-4435	H4435	200	FAMILY CIR	38.0335580939	-84.4554284816
HLX-4436	H4436	3090	CLAIR RD	38.0040831912	-84.4881266989
HLX-4437	H4437	1525	MERCER RD	38.0747608916	-84.5108274307
HLX-4438	H4438	3235	GONDOLA DR	38.0155467076	-84.5650260365
HLX-4439	H4439	0	N LOCUST HILL DR	38.0052300233	-84.4430408225
HLX-4440	H4440	3291	GONDOLA DR	38.0138876143	-84.5668113923
HLX-4441	H4441	3378	RIDGECAVE RD	38.0134347745	-84.565630502
HLX-4442	H4442	932	LIMA CT	38.0727148225	-84.5078706124
HLX-4443	H4443	112	CISCO RD	38.048172912	-84.5255112914
HLX-4444	H4444	3816	CAMELOT DR	37.9741454059	-84.5071445338
HLX-4445	H4445	1877	PARIS RD	38.0726705014	-84.4595023064
HLX-4446	H4446	1979	PARIS RD	38.0747404532	-84.4564246513
HLX-4447	H4447	2111	PARIS RD	38.0766483037	-84.4536264549
HLX-4448	H4448	425	KINGSTON RD	38.0828156529	-84.447743026

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HLX-4449	H4449	541	KINGSTON RD	38.0850374411	-84.4492011858
HLX-4450	H4450	2281	EXECUTIVE DR	38.0426959517	-84.4286016979
HLX-4451	H4451	2265	EXECUTIVE DR	38.0439864458	-84.4285459548
HLX-4452	H4452	2220	EXECUTIVE DR	38.0452817455	-84.4282310935
HLX-4453	H4453	2192	CALL DR	38.0448022478	-84.4257323262
HLX-4454	H4454	2277	THUNDERSTICK DR	38.0435404245	-84.4257595901
HLX-4455	H4455	2260	BUENA VISTA RD	38.0424114407	-84.4258812175
HLX-4456	H4456	1580	FLORA GLEN WAY	37.9735024408	-84.4637808815
HLX-4457	H4457	1568	FLORA GLEN WAY	37.9739485691	-84.4642320424
HLX-4458	H4458	1545	FLORA GLEN WAY	37.9744068972	-84.46527916
HLX-4459	H4459	3377	ROYAL WOOD RD	37.9749855043	-84.4571491192
HLX-4460	H4460	409	WILLOW LN	38.0568168071	-84.3239134352
HLX-4461	H4461	399	SOUTHLAND DR	38.018079176	-84.526014392
HLX-4462	H4462	370	MAN O WAR BLVD	37.9736028441	-84.4693183089
HLX-4463	H4463	1530	NICHOLASVILLE RD	38.023375492	-84.5121379846
HLX-4464	H4464	1401	HARRODSBURG RD	38.0327777211	-84.5253061297
HLX-4465	H4465	3340	RICHMOND RD	37.9983562307	-84.4423785665
HLX-4466	H4466	10	N EAGLE CREEK DR	37.9995913402	-84.441189975
HLX-4467	H4467	151	N EAGLE CREEK DR	38.0006400588	-84.4398501953
HLX-4468	H4468	625	EUREKA SPRINGS DR	37.9955629204	-84.4566807969
HLX-4469	H4469	533	EL PASEO PL	37.9966580693	-84.455666439
HLX-4471	H4471	2401	MERCHANT ST	38.0772274844	-84.5433049885
HLX-4472	H4472	132	TRADE ST	38.0759007473	-84.5443220934
HLX-4473	H4473	1570	SAMARA GLEN WAY	37.9748329588	-84.464115318
HLX-4474	H4474	1052	TABORLAKE DR	37.9962413281	-84.4686086766
HLX-4475	H4475	1087	TABORLAKE DR	37.9956411716	-84.4679224428
HLX-4476	H4476	1104	TABORLAKE DR	37.9949571409	-84.4687918306
HLX-4477	H4477	2146	TABORLAKE CIR	37.9955017975	-84.4698605949
HLX-4478	H4478	978	FAIRHAVEN DR	37.9604318458	-84.4947432249
HLX-4479	H4479	107	CHINOE RD	38.0002291618	-84.4815289271
HLX-4480	H4480	3309	FOX TRACE RD	37.9758441472	-84.4560787675
HLX-4481	H4481	620	MASON HEADLEY RD	38.033739953	-84.524739184
HLX-4482	H4482	650	MASON HEADLEY RD	38.0343475185	-84.525903132
HLX-4483	H4483	2601	OLD CAVE HILL LN	38.0174771076	-84.584757838

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4484	H4484	573	ELK LAKE DR	37.9986379006	-84.4510652987
HLX-4485	H4485	121	PROSPEROUS PL	38.0014884715	-84.443265555
HLX-4486	H4486	131	PROSPEROUS PL	38.0020548477	-84.44250484
HLX-4487	H4487	1586	SUMMA MEADOW DR	37.9721310228	-84.4646651983
HLX-4488	H4488	1558	SUMMA MEADOW DR	37.9726785759	-84.4658736929
HLX-4489	H4489	3146	CUSTER DR	37.9883676709	-84.459586713
HLX-4490	H4490	3512	TRAILS END	37.9797185858	-84.5032387317
HLX-4491	H4491	474	GRAYSON LAKE DR	37.9983100219	-84.4496556606
HLX-4492	H4492	447	GRAYSON LAKE DR	37.9994933708	-84.4491439883
HLX-4493	H4493	3321	LYON DR	38.0147643949	-84.57094272
HLX-4494	H4494	3356	LYON DR	38.0154791376	-84.5697706737
HLX-4495	H4495	3384	LYON DR	38.014864058	-84.5684935389
HLX-4496	H4496	2345	THE WOODS LN	37.995867268	-84.474890458
HLX-4497	H4497	2361	THE WOODS LN	37.9951353297	-84.4758605945
HLX-4498	H4498	2105	HUNTERS WOOD LN	37.9953727305	-84.4743672522
HLX-4499	H4499	693	PERIMETER DR	37.9942615489	-84.4625817554
HLX-4500	H4500	661	PERIMETER DR	37.9951604767	-84.4631643803
HLX-4501	H4501	60	PERIMETER DR	37.9961533366	-84.4635142938
HLX-4502	H4502	3118	CUSTER DR	37.9894431171	-84.4588439122
HLX-4503	H4503	3461	ROYAL WOOD RD	37.9759301286	-84.4548661156
HLX-4504	H4504	3429	ROYAL WOOD RD	37.97515252	-84.4548756027
HLX-4505	H4505	134	SWIGERT AVE	38.0877930761	-84.4428909629
HLX-4506	H4506	194	SWIGERT AVE	38.0899639679	-84.4443552707
HLX-4507	H4507	256	SWIGERT AVE	38.0922232519	-84.4466903128
HLX-4508	H4508	201	CARTERBROOK LN	38.094399091	-84.4319900003
HLX-4509	H4509	240	CARTERBROOK LN	38.0954196629	-84.4331855385
HLX-4510	H4510	429	DOVER RD	38.0717456575	-84.4662791062
HLX-4511	H4511	3213	HUNTERS POINT DR	37.9878577787	-84.4490230049
HLX-4512	H4512	3217	FOXCHASE CT	37.9870967293	-84.4494596823
HLX-4513	H4513	3280	HUNTERS POINT DR	37.9868642181	-84.4502391325
HLX-4514	H4514	1150	HORSEMANS LN	38.0426495048	-84.5268474608
HLX-4515	H4515	951	FAIRHAVEN DR	37.9597619809	-84.4959352506
HLX-4516	H4516	944	DARDA CT	37.9607647184	-84.4955183407
HLX-4517	H4517	1599	SUMMERHILL DR	37.9710328692	-84.4640625213

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4518	H4518	1570	SUMMERHILL DR	37.9716370922	-84.4656457032
HLX-4519	H4519	1523	SUMMERHILL DR	37.9716130524	-84.4666679536
HLX-4520	H4520	4016	FOREST GREEN DR	37.9728759253	-84.5067935908
HLX-4521	H4521	3997	FOREST GREEN DR	37.9721919727	-84.5068244982
HLX-4522	H4522	3793	DICKSONIA DR	37.9719160031	-84.5054813696
HLX-4523	H4523	721	TROY TRL	37.970803159	-84.5045815936
HLX-4524	H4524	749	TROY TRL	37.9698520208	-84.5037831943
HLX-4525	H4525	412	DARBY CREEK RD	38.0061707127	-84.4313662578
HLX-4526	H4526	3512	CREEKWOOD DR	37.996652556	-84.4800493659
HLX-4527	H4527	3532	CREEKWOOD DR	37.9963786337	-84.4782960269
HLX-4528	H4528	20	WAVELAND MUSEUM LN	37.9706190977	-84.5368367331
HLX-4529	H4529	2868	BOWMAN MILL RD	38.0096340321	-84.6017118933
HLX-4530	H4530	2368	THE WOODS LN	37.9941311863	-84.4758016848
HLX-4531	H4531	1050	CHINOE RD	37.9981417529	-84.4805395837
HLX-4532	H4532	3410	SPANGLER DR	37.9796642783	-84.504242838
HLX-4533	H4533	3513	TRAILS END	37.97988543	-84.5038592367
HLX-4534	H4534	3410	SPANGLER DR	37.9802405534	-84.5036386887
HLX-4535	H4535	574	S UPPER ST	38.0421011278	-84.5054404208
HLX-4536	H4536	240	BOLIVAR ST	38.0428185221	-84.5062669975
HLX-4537	H4537	659	PLUNKETT ST	38.0432949816	-84.5067131691
HLX-4538	H4538	612	S BROADWAY	38.0433347905	-84.5075984831
HLX-4539	H4539	619	S BROADWAY	38.0433688549	-84.5081948045
HLX-4540	H4540	640	S BROADWAY	38.0428071878	-84.5084901805
HLX-4541	H4541	426	HAYMAN AVE	38.0431255423	-84.5095458546
HLX-4542	H4542	0	S BROADWAY	38.0423925753	-84.5093132394
HLX-4543	H4543	340	SCOTT ST	38.0419450811	-84.5100248174
HLX-4545	H4545	843	S BROADWAY	38.0409567142	-84.5127411719
HLX-4546	H4546	429	ANGLIANA AVE	38.0419383	-84.51184565
HLX-4547	H4547	539	ANGELINA AVE	38.0429068396	-84.512311832
HLX-4548	H4548	843	S BROADWAY	38.0403445702	-84.5131467837
HLX-4549	H4549	855	S BROADWAY	38.0399763463	-84.5137214737
HLX-4550	H4550	858	S BROADWAY	38.0398049141	-84.513512814
HLX-4552	H4552	807	S BROADWAY	38.0411322173	-84.5124433175
HLX-4553	H4553	2041	CREATIVE DR	38.0294155965	-84.4554888816

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HLX-4554	H4554	2040	CREATIVE DR	38.0284238974	-84.4553758601
HLX-4555	H4555	2050	CREATIVE DR	38.0279910986	-84.4538507848
HLX-4556	H4556	740	SPRING MEADOWS DR	38.0287755967	-84.5338002855
HLX-4557	H4557	776	SPRING MEADOWS DR	38.0292851967	-84.5345011987
HLX-4558	H4558	799	SPRING MEADOWS DR	38.0298479518	-84.535326118
HLX-4559	H4559	851	SPRING MEADOWS DR	38.0298311457	-84.5363579086
HLX-4560	H4560	2105	WOODBIDGE WAY	37.9514871537	-84.4849854053
HLX-4561	H4561	4962	HARTLAND PKY	37.9505129887	-84.4820926909
HLX-4562	H4562	4998	TYNEBRAE RD	37.9512027853	-84.48341206
HLX-4563	H4563	2101	BROADHEAD PL	37.9520689909	-84.4831011944
HLX-4564	H4564	2129	BROADHEAD PL	37.9520893877	-84.4809497994
HLX-4565	H4565	1620	SUMMERHILL DR	37.9699292265	-84.4630454137
HLX-4566	H4566	30	CUTTERS HILL CT	37.9660645055	-84.3733963232
HLX-4567	H4567	331	UNITED CT	37.9662010672	-84.3755326364
HLX-4568	H4568	690	MASON HEADLEY RD	38.0346967313	-84.5273079013
HLX-4569	H4569	687	SHAKER DR	38.0343221847	-84.527366149
HLX-4570	H4570	1656	SUMMERHILL DR	37.9689649012	-84.4613986023
HLX-4571	H4571	737	GATEHOUSE PL	38.0311507373	-84.4589900196
HLX-4572	H4572	349	STONEGATE WAY	38.0048933325	-84.5292478141
HLX-4573	H4573	321	STONEGATE WAY	38.0041234752	-84.5276753033
HLX-4574	H4574	2376	ALEXANDRIA DR	38.0173920086	-84.5490600867
HLX-4575	H4575	2343	ALEXANDRIA DR	38.0188358665	-84.5499275889
HLX-4576	H4576	2333	ALEXANDRIA DR	38.0195192094	-84.5508912063
HLX-4577	H4577	2309	ALEXANDRIA DR	38.0202821551	-84.5516771962
HLX-4578	H4578	210	ROLLINGDALE RD	38.0173418804	-84.5657270799
HLX-4579	H4579	2121	ROLLINGDALE RD	38.0167665875	-84.5675645524
HLX-4580	H4580	2152	ROLLINGDALE RD	38.0169058682	-84.5692473035
HLX-4581	H4581	2101	PALMBROOKE CT	38.0180069587	-84.5667324367
HLX-4582	H4582	2108	RIDGECAVE CT	38.0180266117	-84.5681171834
HLX-4583	H4583	3268	RIDGECAVE RD	38.0188245879	-84.5677556151
HLX-4584	H4584	501	DARBY CREEK RD	38.0074272752	-84.4311931776
HLX-4585	H4585	3445	WINDYKNOLL DR	37.9720427156	-84.4675031973
HLX-4586	H4586	3416	WINDYKNOLL DR	37.9728540238	-84.4680418909
HLX-4587	H4587	1525	CHADWICK DR	37.9733695785	-84.4672102926

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4588	H4588	4120	HEARTWOOD RD	37.9667539499	-84.4918271084
HLX-4589	H4589	4141	HEARTWOOD RD	37.9655726346	-84.4923461613
HLX-4590	H4590	4181	HEARTWOOD RD	37.9654366984	-84.4913306634
HLX-4591	H4591	1098	ROCKBRIDGE RD	37.9577535339	-84.4909536432
HLX-4592	H4592	1071	ROCKBRIDGE RD	37.956767411	-84.4927010416
HLX-4593	H4593	1013	STOWBRIDGE LN	37.9563222315	-84.4945055172
HLX-4594	H4594	4694	IRONBRIDGE DR	37.9572961565	-84.4932286024
HLX-4595	H4595	4662	IRONBRIDGE DR	37.9577397449	-84.4944504783
HLX-4596	H4596	3608	KENWSAW DR	37.9654362359	-84.4670289102
HLX-4597	H4597	3660	KENESAW DR	37.9643743885	-84.468390095
HLX-4598	H4598	370	KENESAW DR	37.9633555327	-84.4702008677
HLX-4599	H4599	2477	WOODFIELD CIR	37.9620544597	-84.4690693893
HLX-4600	H4600	2362	WOODFIELD CIR	37.960424557	-84.4691310155
HLX-4601	H4601	3633	GLEN OAK WAY	37.9596181842	-84.4682108901
HLX-4602	H4602	381	SQUIRES CIR	37.990880542	-84.4449064958
HLX-4603	H4603	2157	BROADHEAD PL	37.9513235062	-84.4791519795
HLX-4604	H4604	4946	HARTLAND PKY	37.9506797165	-84.4806449983
HLX-4605	H4605	2180	BROADHEAD PL	37.9498332728	-84.4801241255
HLX-4606	H4606	772	JAEDUKE DR	37.9691448386	-84.5044171768
HLX-4607	H4607	756	JAEDUKE DR	37.9696338557	-84.5053624434
HLX-4608	H4608	3721	VON SNEIDERN CT	37.9706629743	-84.5068169093
HLX-4609	H4609	3380	SQUIRE OAK DR	37.967602496	-84.4586179303
HLX-4610	H4610	1716	BROOK PARK DR	37.9667396116	-84.4580490793
HLX-4611	H4611	3401	W EDGEBROOK DR	37.9665404986	-84.4572341016
HLX-4612	H4612	3437	W EDGEBROOK DR	37.9649075248	-84.4574488861
HLX-4613	H4613	1732	BROOK PARK DR	37.9662213192	-84.4563577474
HLX-4614	H4614	3424	E EDGEBROOK DR	37.9650794813	-84.456583795
HLX-4615	H4615	3452	E EDGEBROOK DR	37.9638904789	-84.4563748379
HLX-4616	H4616	3297	FEATHERSTON DR	37.9742910663	-84.4542525465
HLX-4617	H4617	0	W LOWRY LN	38.0057948445	-84.5191057393
HLX-4618	H4618	150	W LOWRY LN	38.0061598859	-84.5201245079
HLX-4619	H4619	171	W LOWRY LN	38.0068496402	-84.5212167281
HLX-4620	H4620	181	W LOWRY LN	38.0071851315	-84.5224848636
HLX-4621	H4621	2351	HUGUENARD DR	38.0059760393	-84.5225556832

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4622	H4622	128	HIDDEN WOODS CT	37.9670967894	-84.5307819964
HLX-4623	H4623	209	JON ALLEN LN	37.9671084145	-84.5293276716
HLX-4624	H4624	149	BITTERSWEET WAY	37.9681109115	-84.5289119546
HLX-4625	H4625	4438	NICHOLASVILLE RD	37.9684831776	-84.5316005117
HLX-4627	H4627	2326	ROYSTER RD	38.0589772746	-84.3964724079
HLX-4628	H4628	2996	UTTINGER LN	38.0399698557	-84.3690714562
HLX-4629	H4629	2597	PALUMBO DR	38.0130686476	-84.4390012487
HLX-4630	H4630	3133	MARIA DR	38.0322879334	-84.3476622556
HLX-4631	H4631	2519	EASTPOINT DR	38.0306862413	-84.3288717142
HLX-4632	H4632	2551	EASTPOINT DR	38.0319416115	-84.3293402836
HLX-4633	H4633	2575	EASTPOINT DR	38.0334487605	-84.3299322491
HLX-4634	H4634	5518	WINCHESTER RD	38.0285161595	-84.320784877
HLX-4635	H4635	3073	WINCHESTER RD	38.0365386222	-84.3982200803
HLX-4636	H4636	370	WINCHESTER RD	38.0337444694	-84.3762426801
HLX-4637	H4637	3985	WINCHESTER RD	38.0310324721	-84.3655945745
HLX-4638	H4638	3153	N CLEVELAND RD	38.0338176094	-84.3561805761
HLX-4639	H4639	5615	WINCHESTER RD	38.0284131475	-84.3170278036
HLX-4640	H4640	1801	NICHOLASVILLE RD	38.0179147046	-84.5142121587
HLX-4641	H4641	3501	PROMENADE CT	37.9702807411	-84.4717616699
HLX-4642	H4642	1591	CROSSEN WAY	37.9703735267	-84.4707124026
HLX-4643	H4643	1621	CROSSEN WAY	37.9700850801	-84.4693037167
HLX-4644	H4644	2385	THE WOODS LN	37.9934154709	-84.4762995616
HLX-4645	H4645	450	DOTHAN DR	37.9590755377	-84.4969676556
HLX-4646	H4646	994	JAIRUS DR	37.9585909181	-84.4962914632
HLX-4647	H4647	963	JAIRUS DR	37.9595337596	-84.4945982979
HLX-4648	H4648	130	HUME RD	38.0617982306	-84.4345144909
HLX-4649	H4649	2270	BRYAN STATION RD	38.0679012925	-84.4402812213
HLX-4650	H4650	3097	TODDS RD	38.0096628455	-84.4233634984
HLX-4652	H4652	413	STONEHEDGE PL	38.0018750363	-84.4548544923
HLX-4653	H4653	428	PATCHEN DR	38.0016249624	-84.4536894483
HLX-4654	H4654	416	GROVES POINT WAY	38.0008993957	-84.4540626714
HLX-4655	H4655	2330	FORTUNE DR	38.0399418417	-84.4471590519
HLX-4656	H4656	1721	FORTUNE CT	38.0399672939	-84.4485213713
HLX-4657	H4657	2321	FORTUNE DR	38.0412215889	-84.4469901705

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 127 of 209
HLX-4658	H4658	961	BEASLEY ST	38.0421287221	-84.4494995028
HLX-4659	H4659	974	BEASLEY ST	38.0417970527	-84.4517894594
HLX-4660	H4660	1313	FENWICK RD	37.9783098932	-84.4537330121
HLX-4661	H4661	2920	SWEET WILLIAM CT	38.0045307715	-84.487794554
HLX-4662	H4662	1508	COLESBURY CIR	38.07379	-84.48247
HLX-4663	H4663	190	ALEXANDRIA DR	38.034835612	-84.550260332
HLX-4664	H4664	1973	PLAUDIT PL	38.01961	-84.41391
HLX-4665	H4665	3435	KENESAW DR	37.9692253636	-84.4649284873
HLX-4666	H4666	3421	FOX DR	37.9702467185	-84.4654493584
HLX-4667	H4667	1490	SUMMERHILL DR	37.9703810949	-84.4664227315
HLX-4668	H4668	1757	GERALD DR	38.0879912899	-84.4753545591
HLX-4669	H4669	2375	LAKE PARK RD	38.0111119247	-84.4613577811
HLX-4670	H4670	2370	LAKE PARK RD	38.0106470142	-84.4607024376
HLX-4671	H4671	2380	LAKE PARK RD	38.0096326342	-84.4609375753
HLX-4672	H4672	4860	TODDS RD	37.9910422146	-84.3707701524
HLX-4673	H4673	1208	N CLEVELAND RD	37.9791719753	-84.3647035715
HLX-4674	H4674	5538	SULPHUR WELL RD	37.9833367354	-84.350445478
HLX-4675	H4675	1117	TABORLAKE DR	37.9942520278	-84.4699748291
HLX-4676	H4676	2188	TABORLAKE CIR	37.9948841419	-84.4704441081
HLX-4677	H4677	1144	TABORLAKE DR	37.9938680302	-84.4714122737
HLX-4678	H4678	1709	GERALD DR	38.0873382568	-84.4742957274
HLX-4679	H4679	3364	SQUIRE OAK DR	37.9682633959	-84.4577628554
HLX-4680	H4680	3341	SQUIRE OAK DR	37.9689621181	-84.4571735597
HLX-4681	H4681	1716	HOUNDSTOOTH GLEN	37.9681835356	-84.4565069343
HLX-4682	H4682	3333	HUNTING HILLS DR	37.9696697503	-84.4568002495
HLX-4683	H4683	3301	SQUIRE OAK DR	37.9708620562	-84.4559453336
HLX-4684	H4684	3301	HUNTING HILLS DR	37.9709689406	-84.4570639571
HLX-4685	H4685	3420	FOX DEN CIR	37.969200287	-84.4601979537
HLX-4686	H4686	3377	FOX DEN CIR	37.9692157826	-84.4586427687
HLX-4687	H4687	3872	FOREST GREEN DR	37.9683972958	-84.5055062942
HLX-4688	H4688	724	LORI LN	37.9694388113	-84.5065793183
HLX-4689	H4689	3889	FOREST GREEN DR	37.968910719	-84.5070668143
HLX-4690	H4690	3924	FOREST GREEN DR	37.969694593	-84.5083641046
HLX-4691	H4691	2204	BROADHEAD PL	37.949654537	-84.4821890819

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4692	H4692	5021	LEAFLAND WAY	37.9488303549	-84.4824423934
HLX-4693	H4693	0	W LOUDON AVE	38.0626066127	-84.4866907338
HLX-4694	H4694	250	W LOUDON AVE	38.0632205997	-84.489538767
HLX-4695	H4695	3990	BRIAR HILL RD	38.0676021317	-84.3743700099
HLX-4696	H4696	3517	COLONNADE DR	37.9694318124	-84.4710521706
HLX-4697	H4697	1038	ROCKBRIDGE RD	37.9553043095	-84.4939829303
HLX-4698	H4698	1016	TURNBRIDGE RD	37.9559688729	-84.4919897547
HLX-4699	H4699	1076	STOWBRIDGE LN	37.9584586393	-84.4923742911
HLX-4700	H4700	1024	ROCKBRIDGE RD	37.9546621661	-84.4945520463
HLX-4701	H4701	4621	SARON DR	37.9536775019	-84.493419922
HLX-4702	H4702	999	CHARWOOD DR	37.9522983759	-84.4927497132
HLX-4703	H4703	932	CHERRYWOOD DR	37.9507289849	-84.4932222343
HLX-4704	H4704	967	CHARWOOD DR	37.951309653	-84.4944821735
HLX-4705	H4705	927	CHARWOOD DR	37.9506446634	-84.4967372072
HLX-4706	H4706	2147	TRADE CENTER DR	38.0362964933	-84.4506532352
HLX-4707	H4707	3281	SQUIRE OAK DR	37.9718107545	-84.4554489569
HLX-4708	H4708	3820	BELLEAU WOOD DR	37.9725156696	-84.5083343174
HLX-4709	H4709	3856	BELLEAU WOOD DR	37.9714066842	-84.509762221
HLX-4710	H4710	1176	TABORLAKE DR	37.993456085	-84.4734415105
HLX-4711	H4711	1213	TABORLAKE CV	37.9943846407	-84.4736357271
HLX-4712	H4712	0	N MT TABOR RD	38.0077542206	-84.4476508822
HLX-4713	H4713	0	N MT TABOR RD	38.0080490494	-84.447179167
HLX-4714	H4714	2868	RIO DOSA DR	38.0087110976	-84.4462873277
HLX-4715	H4715	2416	MERCHANT ST	38.0781564275	-84.5448791657
HLX-4716	H4716	2151	GEORGETOWN RD	38.093452602	-84.5124291933
HLX-4717	H4717	70	JAEDUKE DR	37.9711745708	-84.5081617924
HLX-4718	H4718	3944	FOREST GREEN DR	37.9702543937	-84.5090827353
HLX-4719	H4719	1933	LAKES EDGE DR	38.0065506829	-84.4782176498
HLX-4720	H4720	1901	LAKES EDGE DR	38.0077564807	-84.4783246778
HLX-4721	H4721	118	DENNIS DR	38.0034205646	-84.5223865574
HLX-4722	H4722	0	S LOCUST HILL DR	38.0022147062	-84.4490937446
HLX-4723	H4723	0	S LOCUST HILL DR	38.0012227679	-84.4506825454
HLX-4724	H4724	440	PATCHEN DR	38.0011540471	-84.4524680719
HLX-4725	H4725	1770	BRYANT RD	38.0152414148	-84.4181732205

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4726	H4726	3217	HUNTING HILLS DR	37.9733834417	-84.4547859302
HLX-4727	H4727	842	JAIRUS DR	37.9579786309	-84.4961430058
HLX-4728	H4728	907	JAIRUS DR	37.9594440554	-84.4933290502
HLX-4729	H4729	4724	IRONBRIDGE DR	37.9549743502	-84.4918058947
HLX-4730	H4730	651	RED MILE RD	38.0488352981	-84.5233812888
HLX-4731	H4731	3698	ROYSTER RD	38.0368277797	-84.3654563543
HLX-4732	H4732	3927	ROYSTER RD	38.032774692	-84.3607757247
HLX-4733	H4733	395	BASSETT AVE	38.0361720384	-84.468743856
HLX-4734	H4734	360	OAK WAY	37.9611342936	-84.4677877521
HLX-4735	H4735	2397	WOODFIELD CIR	37.959073728	-84.4675240121
HLX-4736	H4736	3620	TIMBERWOOD LN	37.9585188851	-84.4663901703
HLX-4737	H4737	700	BOB-O-LINK DR	38.0318297179	-84.5275164713
HLX-4738	H4738	701	BOB-O-LINK DR	38.032770557	-84.5272513676
HLX-4739	H4739	70	BOB-O-LINK DR	38.0327716502	-84.5283771705
HLX-4740	H4740	240	OVER DR	38.0752844418	-84.5450975695
HLX-4741	H4741	2416	OVER DR	38.0761524975	-84.5466907649
HLX-4742	H4742	2440	OVER DR	38.077026154	-84.5479541061
HLX-4743	H4743	164	TRADE ST	38.0738309662	-84.5469593189
HLX-4744	H4744	181	TRADE ST	38.0748262748	-84.5480540706
HLX-4745	H4745	3449	FEATHERIDGE DR	37.9680635937	-84.4638666634
HLX-4746	H4746	1632	BRENTMOOR DR	37.9683718017	-84.4626907669
HLX-4747	H4747	1773	EASTWOOD DR	38.0085797287	-84.4789933765
HLX-4748	H4748	1850	DELONG RD	37.9599307063	-84.4512010216
HLX-4749	H4749	2432	PARTERRE PL	38.0474092423	-84.5597711634
HLX-4750	H4750	4879	FAULKIRK LN	37.9534262196	-84.4785969796
HLX-4751	H4751	2240	BONHAVEN RD	37.9522296036	-84.4753814933
HLX-4752	H4752	2233	ABBNEYWOOD RD	37.9537206164	-84.476007611
HLX-4753	H4753	4801	HEMPSTEAD DR	37.9534048287	-84.4737541619
HLX-4754	H4754	155	W TIVERTON WAY	37.9817204694	-84.5334309108
HLX-4756	H4756	3664	ARBOR DR	37.9685125517	-84.4766360337
HLX-4757	H4757	433	WINDFIELD PL	37.9999030769	-84.4551017365
HLX-4758	H4758	3452	WOODSPRING DR	37.9669202364	-84.4627130568
HLX-4759	H4759	107	EDISON DR	38.0200812088	-84.5209929811
HLX-4760	H4760	1696	FARMVIEW DR	37.9656932193	-84.4596858672

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4761	H4761	3420	OAK RIDGE CT	37.965450976	-84.4584861276
HLX-4762	H4762	1732	FARMVIEW DR	37.9644069237	-84.458466503
HLX-4763	H4763	3441	OAKBROOK DR	37.9649319698	-84.4553816075
HLX-4764	H4764	1832	FARMVIEW DR	37.9639556006	-84.4545647074
HLX-4765	H4765	937	WOODGLEN CT	37.9514105824	-84.496489848
HLX-4766	H4766	868	EDGEWOOD DR	37.9499606079	-84.495818175
HLX-4767	H4767	3401	GATEWOOD CT	37.9841489305	-84.5058023089
HLX-4768	H4768	4552	SARON DR	37.9561143456	-84.4964504398
HLX-4769	H4769	1028	WATERMILL LN	37.9555763423	-84.4979192689
HLX-4770	H4770	1017	TURNBERRY LN	37.9563303692	-84.4982264559
HLX-4771	H4771	40	CHELSEA WOODS DR	38.0099129613	-84.4409175573
HLX-4772	H4772	1772	FARMVIEW DR	37.9633132425	-84.4568287108
HLX-4773	H4773	2793	IRON WORKS PIKE	38.1306868569	-84.4832814055
HLX-4774	H4774	4476	NEWTOWN PIKE	38.163503694	-84.4891189573
HLX-4775	H4775	4986	NEWTOWN PIKE	38.1761193406	-84.4884697844
HLX-4776	H4776	1098	S CLEVELAND RD	37.9244651803	-84.3683951577
HLX-4777	H4777	3933	CROSBY DR	37.9658384425	-84.4899388955
HLX-4778	H4778	3976	BOSTON RD	37.9745484818	-84.5551688687
HLX-4779	H4779	3949	BOSTON RD	37.9757733937	-84.5545490455
HLX-4780	H4780	3904	BOSTON RD	37.9774776049	-84.5536556494
HLX-4781	H4781	849	E LOUDON AVE	38.0430519149	-84.4664298102
HLX-4782	H4782	2448	WOODFIELD CIR	37.9612708659	-84.4666378753
HLX-4783	H4783	3613	WINDFAIR LN	37.9607095343	-84.4652305988
HLX-4784	H4784	5143	WHITES LN	37.926378606	-84.4074442026
HLX-4785	H4785	2992	NEAL DR	38.0058387333	-84.5405453334
HLX-4786	H4786	915	FAIRHAVEN DR	37.9589127953	-84.4980748005
HLX-4787	H4787	875	FAIRHAVEN DR	37.9574027158	-84.4981154367
HLX-4788	H4788	3094	RICHMOND RD	38.0032495849	-84.4490518534
HLX-4789	H4789	928	WYNDHAM HILLS DR	37.9742847243	-84.5568623655
HLX-4790	H4790	90	WYNDHAM HILLS DR	37.9735391153	-84.5555451523
HLX-4791	H4791	965	WYNDHAM HILLS DR	37.9748357014	-84.5589741439
HLX-4792	H4792	816	EDGEWOOD DR	37.9491756958	-84.4983338845
HLX-4793	H4793	460	CHARWOOD CT	37.9503584125	-84.4992605227
HLX-4794	H4794	3512	LYON DR	38.0100059148	-84.5707768596

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 131 of 209
HLX-4795	H4795	2197	SALLEE DR	38.0083170059	-84.5717068342
HLX-4796	H4796	3503	KENESAW DR	37.9671262455	-84.4653428694
HLX-4797	H4797	3579	KENESAW DR	37.9658260268	-84.4667220106
HLX-4798	H4798	2012	TARA LN	37.9958303832	-84.5760714248
HLX-4799	H4799	3897	FORSYTHE DR	37.9949646216	-84.5777129333
HLX-4800	H4800	3944	FORSYTHE DR	37.9971041099	-84.5771287957
HLX-4801	H4801	309	FOX HARBOUR DR	37.9740883722	-84.5221583754
HLX-4802	H4802	332	FOX HARBOUR DR	37.9732159759	-84.5198518782
HLX-4803	H4803	2498	DOGWOOD TRACE BLVD	37.9898416112	-84.5904825381
HLX-4804	H4804	2476	VALE DR	37.9882378324	-84.590194505
HLX-4805	H4805	4853	BUD LN	37.9871404586	-84.5896373788
HLX-4806	H4806	480	AGAPE DR	37.9870718485	-84.5872229607
HLX-4807	H4807	1260	WINCHESTER RD	38.0426170411	-84.4584771157
HLX-4808	H4808	2180	FRANKFORT PIKE	38.0646786719	-84.5499598528
HLX-4809	H4809	108	DAMAR DR	37.9351656589	-84.4013866309
HLX-4810	H4810	3749	CROSBY DR	37.9699149143	-84.4868553151
HLX-4811	H4811	1129	PARKLAWN DR	37.9703428808	-84.4887261734
HLX-4812	H4812	1116	NARROW LN	37.9704304471	-84.4901681725
HLX-4813	H4813	1145	NARROW LN	37.9691089084	-84.4894167255
HLX-4814	H4814	3905	RAPID RUN DR	37.9650541972	-84.4831372842
HLX-4815	H4815	1213	WALKERS WAY	38.0070440395	-84.4896178852
HLX-4816	H4816	60	GALATA DR	38.0072357125	-84.542473595
HLX-4817	H4817	644	GALATA DR	38.0080856952	-84.5445880783
HLX-4818	H4818	676	DARDANELLES DR	38.0086069387	-84.5463996829
HLX-4819	H4819	2945	WACO RD	38.0093418738	-84.5480391217
HLX-4820	H4820	616	DARDANELLES DR	38.0082497414	-84.5431500363
HLX-4821	H4821	3972	PALOMAR BLVD	38.0078814701	-84.579387482
HLX-4822	H4822	4887	FAULKIRK LN	37.9524557644	-84.4793709896
HLX-4823	H4823	2136	ROTHBURY RD	37.9556981972	-84.4786351697
HLX-4824	H4824	2109	ROTHBURY RD	37.9560869518	-84.4813041479
HLX-4825	H4825	4817	CHAFFEY LN	37.95451133	-84.4814534461
HLX-4826	H4826	2471	HARRODS POINTE TRCE	37.9864869157	-84.5902075485
HLX-4827	H4827	2438	HARRODS POINTE TRCE	37.9856894358	-84.5883054081
HLX-4828	H4828	2406	HARRODS POINTE TRCE	37.9847677519	-84.5866398588

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4829	H4829	330	CUTTERS HILL CT	37.967123184	-84.3735154731
HLX-4830	H4830	401	UNITED CT	37.9679372298	-84.3757528674
HLX-4831	H4831	4152	PALOMAR BLVD	38.0003626509	-84.5787178921
HLX-4832	H4832	4033	SANTEE WAY	38.0014849215	-84.5804301907
HLX-4833	H4833	4093	PALMETTO DR	38.0030916321	-84.5816259929
HLX-4834	H4834	4060	PALMETTO DR	38.0037283806	-84.579630876
HLX-4835	H4835	4045	PALOMAR BLVD	38.0053597092	-84.5814869346
HLX-4836	H4836	4140	PALMETTO DR	38.0018489345	-84.5843312461
HLX-4837	H4837	4193	PALMETTO DR	38.0000054261	-84.585765021
HLX-4838	H4838	4328	GUM TREE LN	37.9985163847	-84.5852239999
HLX-4839	H4839	4253	PALMETTO DR	37.9981869098	-84.5867609419
HLX-4840	H4840	453	CHELSEA WOODS DR	38.0113710371	-84.441036638
HLX-4841	H4841	775	NEWTOWN CT	38.0762069421	-84.4924456973
HLX-4842	H4842	992	ROCKBRIDGE RD	37.9536860592	-84.4955139821
HLX-4843	H4843	4564	LONGBRIDGE LN	37.9549569752	-84.4969988649
HLX-4844	H4844	4501	THORNBRIDGE LN	37.9540303962	-84.4985345852
HLX-4845	H4845	316	SANTA FE CT	38.0075124057	-84.4424379856
HLX-4846	H4846	213	BLUE SKY PKY	37.9624811574	-84.3800668047
HLX-4847	H4847	1549	SPRINGFIELD DR	37.9696568027	-84.467325338
HLX-4848	H4848	150	SPRINGFIELD DR	37.9683550708	-84.4682527264
HLX-4849	H4849	3516	WESTMONT CIR	38.0087753677	-84.569891003
HLX-4850	H4850	3720	HIGBEE WOODS CT	37.9870568487	-84.5605132032
HLX-4851	H4851	4813	HEMPSTEAD DR	37.9524847901	-84.4732288244
HLX-4852	H4852	2284	ABBEYWOOD RD	37.9548992934	-84.4724384372
HLX-4853	H4853	842	CHARWOOD DR	37.9517183864	-84.4995683574
HLX-4854	H4854	2148	SALLEE DR	38.007125683	-84.5684767835
HLX-4855	H4855	2033	MCNAIR CT	38.0077578899	-84.5677091335
HLX-4856	H4856	2408	BROOKSHIRE CIR	37.9618978998	-84.4706021694
HLX-4857	H4857	2436	BROOKSHIRE CIR	37.9611256394	-84.4718441675
HLX-4858	H4858	3732	KENESAW DR	37.9623749625	-84.472603774
HLX-4859	H4859	3528	CASTLEGATE WYND	38.0010248003	-84.4824162326
HLX-4860	H4860	3541	CASTLEGATE WYND	38.0020837398	-84.4812130408
HLX-4861	H4861	4601	THORNWOOD CIR	37.9530120868	-84.4961427525
HLX-4862	H4862	956	ROCKBRIDGE RD	37.9527908443	-84.4981950822

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4863	H4863	368	FOX HARBOUR DR	37.972971417	-84.5179650675
HLX-4864	H4864	404	FOX HARBOUR DR	37.9730722501	-84.5161453332
HLX-4865	H4865	436	FOX HARBOUR DR	37.973343116	-84.5144826612
HLX-4866	H4866	1101	SHAGBARK LN	37.9657419316	-84.4951656513
HLX-4867	H4867	1121	SHAGBARK LN	37.9668341602	-84.4940179323
HLX-4868	H4868	1092	TANBARK RD	37.9664259521	-84.4939991135
HLX-4869	H4869	1105	TANBARK RD	37.9672434085	-84.4951886949
HLX-4870	H4870	115	N LOCUST HILL DR	38.0035003675	-84.4472512703
HLX-4871	H4871	109	N LOCUST HILL DR	38.0042773479	-84.4462027028
HLX-4872	H4872	133	N LOCUST HILL DR	38.004780982	-84.4450739229
HLX-4873	H4873	3069	ARROWHEAD DR	38.0079873068	-84.549804128
HLX-4874	H4874	532	MARBLEROCK WAY	37.9848132499	-84.5498911182
HLX-4875	H4875	460	MARBLEROCK WAY	37.9830560865	-84.5461806898
HLX-4876	H4876	320	BLENHEIM WAY	38.0037890317	-84.5572408059
HLX-4877	H4877	3224	BLENHEIM WAY	38.0029610438	-84.5589555739
HLX-4878	H4878	3245	BLENHEIM WAY	38.0024782415	-84.560625251
HLX-4879	H4879	2224	REGENCY RD	38.0080087264	-84.5245642317
HLX-4880	H4880	190	W LOWRY LN	38.007003527	-84.5233723731
HLX-4881	H4881	230	REGENCY RD	38.0067791283	-84.5244273545
HLX-4882	H4882	3040	RICHMOND RD	38.0044417742	-84.4502757496
HLX-4883	H4883	2112	ST MATHILDA DR	38.0229970527	-84.4615000823
HLX-4884	H4884	4048	PEPPERTREE DR	38.0094732151	-84.5793277198
HLX-4885	H4885	4026	PALMETTO DR	38.003499443	-84.5771514288
HLX-4886	H4886	2193	STONE GARDEN LN	38.0040602281	-84.5761676065
HLX-4887	H4887	1299	VERSAILLES RD	38.0498366675	-84.521779378
HLX-4888	H4888	2035	LEESTOWN RD	38.07007997	-84.52999555
HLX-4889	H4889	4025	BOSTON RD	37.9719189285	-84.5563847501
HLX-4890	H4890	3965	HILLSIDE DR	37.9727165665	-84.5580242006
HLX-4891	H4891	3921	HILLSIDE DR	37.9735861568	-84.5595324558
HLX-4892	H4892	3501	GAMAY CT	37.9686708098	-84.46977089
HLX-4893	H4893	163	TODDS RD	38.0107363947	-84.4526854166
HLX-4894	H4894	2250	FRANKFORT PIKE	38.0653825134	-84.5513707836
HLX-4895	H4895	336	BRADFORD COLONY DR	37.9723001985	-84.5231583512
HLX-4896	H4896	3270	BRYAN STATION RD	38.0801983591	-84.4086247506

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 134 of 209
HLX-4897	H4897	2221	ELKHORN RD	38.0451845885	-84.4230067352
HLX-4898	H4898	2389	BUENA VISTA RD	38.0449974477	-84.421265978
HLX-4899	H4899	290	EASTBROOK CT	38.0066534631	-84.4871461159
HLX-4900	H4900	4663	COLLINSWOOD DR	37.9552418284	-84.4887759796
HLX-4901	H4901	1083	FOREST LAKE DR	37.9540238867	-84.4887090605
HLX-4902	H4902	1047	FOREST LAKE DR	37.9521696962	-84.4902909767
HLX-4903	H4903	4697	SARON DR	37.9510309939	-84.4892502344
HLX-4904	H4904	1580	LEESTOWN RD	38.0664599861	-84.5247319472
HLX-4905	H4905	3568	BOSTON RD	37.9831990429	-84.5495375655
HLX-4906	H4906	540	STONE CREEK DR	37.9841966973	-84.5518063308
HLX-4907	H4907	4021	FORSYTHE DR	38.0001782766	-84.576538617
HLX-4908	H4908	3980	FORSYTHE DR	37.99842121	-84.5768069887
HLX-4909	H4909	4125	BERRYMAN CT	37.9978347799	-84.5756748132
HLX-4910	H4910	4601	SPRING CREEK DR	37.9594217207	-84.4889524977
HLX-4911	H4911	4629	SPRING CREEK DR	37.9590077251	-84.4873581668
HLX-4912	H4912	4624	OAK CREEK DR	37.9598621373	-84.4869418166
HLX-4913	H4913	460	HICKORY CREEK DR	37.960853938	-84.4881279862
HLX-4914	H4914	108	W NEW CIRCLE RD	38.0749380908	-84.5018332483
HLX-4915	H4915	4816	MANDARIN PL	37.9841912334	-84.5855059828
HLX-4916	H4916	2354	HARRODS POINTE TRCE	37.9833397701	-84.5839381154
HLX-4917	H4917	3613	CREEL CT	37.9794180649	-84.5081583868
HLX-4918	H4918	470	CONWAY CT	38.0840465845	-84.5401820646
HLX-4919	H4919	411	RETRAC RD	37.9833223487	-84.5421603067
HLX-4920	H4920	374	RETRAC RD	37.9822488725	-84.5400993854
HLX-4921	H4921	3550	WINTHROP DR	37.9817881279	-84.5431493024
HLX-4922	H4922	4801	CHARISMA CT	37.9887978258	-84.5875636441
HLX-4923	H4923	2446	DOGWOOD TRACE BLVD	37.9883538501	-84.5858130575
HLX-4924	H4924	4797	RHEMA WAY	37.9882184008	-84.5840657867
HLX-4925	H4925	3422	LEESTOWN RD	38.0993734125	-84.5682881175
HLX-4926	H4926	394	GREENDALE RD	38.0811478962	-84.5347653204
HLX-4927	H4927	320	E MAIN ST	38.04378414	-84.49422705
HLX-4928	H4928	315	WILSON ST	38.0442766895	-84.4911385129
HLX-4929	H4929	3601	KEYSTONE CT	37.9729889081	-84.474250562
HLX-4930	H4930	3629	KEYSTONE CT	37.9722022515	-84.474545027

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4931	H4931	1501	TRENT BLVD	37.9666398427	-84.4761846671
HLX-4932	H4932	1520	TRENT BLVD	37.9655798796	-84.4755130884
HLX-4933	H4933	2401	CHINQUAPIN LN	38.0400818657	-84.5598108213
HLX-4934	H4934	108	WESTHAMPTON DR	38.079022503	-84.5406746189
HLX-4935	H4935	124	WESTHAMPTON DR	38.0800165899	-84.5395775514
HLX-4936	H4936	2025	MERCER RD	38.0805800171	-84.5389210482
HLX-4937	H4937	201	MERCER RD	38.0793806981	-84.5361535724
HLX-4938	H4938	2048	MERCER RD	38.0797628412	-84.5366023276
HLX-4939	H4939	117	MERCER CT	38.0824495638	-84.5418820876
HLX-4940	H4940	101	MERCER CT	38.0815650489	-84.542567592
HLX-4941	H4941	396	BRADFORD COLONY DR	37.9717852637	-84.5216394834
HLX-4942	H4942	4196	WEBER WAY	37.9778311348	-84.5703270039
HLX-4943	H4943	3992	WESTBROOK DR	37.9768775236	-84.5677042252
HLX-4944	H4944	3909	ROSEBANK CIR	37.9761686566	-84.5659636324
HLX-4945	H4945	4077	WEBER WAY	37.97581538	-84.5640108917
HLX-4946	H4946	4040	WEBER WAY	37.9751055758	-84.5625935244
HLX-4947	H4947	4016	WEBER WAY	37.9745641385	-84.5609668812
HLX-4948	H4948	4850	HARTLAND PKY	37.9566174745	-84.4774955283
HLX-4949	H4949	2201	POPLAR GROVE PL	37.9551115219	-84.4758037239
HLX-4950	H4950	4897	WYNDHURST RD	37.9540992695	-84.4731576491
HLX-4951	H4951	4872	PLEASANT GROVE RD	37.9564703929	-84.4746673245
HLX-4952	H4952	4721	SCENICVIEW RD	37.9878537756	-84.5831871095
HLX-4953	H4953	4753	SCENICVIEW RD	37.9863334665	-84.5844788545
HLX-4954	H4954	397	PREAKNESS DR	38.0674282798	-84.4430144893
HLX-4955	H4955	230	BREEDERS CT	38.0688066107	-84.4426605118
HLX-4956	H4956	365	PREAKNESS DR	38.068938856	-84.4437614376
HLX-4957	H4957	3541	CEPHAS WAY	37.9838943999	-84.5529737293
HLX-4958	H4958	120	QUINTON CT	38.012989979	-84.4552394428
HLX-4959	H4959	4824	WATERSIDE DR	37.9902140227	-84.5956441616
HLX-4960	H4960	480	WATERSIDE DR	37.991114496	-84.594083231
HLX-4961	H4961	2570	OVERLAKE BLVD	37.9917045906	-84.5956555316
HLX-4963	H4963	5498	VERSAILLES RD	38.0411625033	-84.6408219806
HLX-4964	H4964	2250	ELKHORN RD	38.0438269833	-84.4231483088
HLX-4965	H4965	2401	BUENA VISTA RD	38.0455877607	-84.4218679993

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-4966	H4966	2140	GARDEN SPRINGS DR	38.0252390284	-84.5480700076
HLX-4967	H4967	3481	COLONNADE DR	37.9712286275	-84.470265912
HLX-4968	H4968	2925	TABOR OAKS LN	38.0058623152	-84.4893244802
HLX-4969	H4969	225	CREEKSIDE CT	38.057703831	-84.5484303758
HLX-4970	H4970	10	CANEBRAKE DR	37.9609317424	-84.3850696465
HLX-4971	H4971	113	CANEBRAKE DR	37.9616634043	-84.3845181824
HLX-4972	H4972	3116	BLENHEIM WAY	38.0077293532	-84.5561111259
HLX-4973	H4973	3168	BLENHEIM WAY	38.0053899938	-84.5562836474
HLX-4974	H4974	1685	JAGGIE FOX WAY	38.0852079216	-84.51727452
HLX-4975	H4975	2285	DANFORTH DR	38.08508864	-84.5157607536
HLX-4976	H4976	1668	JAGGIE FOX WAY	38.0843512972	-84.5176722221
HLX-4977	H4977	1645	JAGGIE FOX WAY	38.0824945493	-84.517161343
HLX-4978	H4978	2316	ABBNEYWOOD RD	37.9569247333	-84.4731315046
HLX-4979	H4979	2232	WOODBURN HALL RD	37.9586730915	-84.4743195849
HLX-4980	H4980	2349	ABBNEYWOOD RD	37.959862903	-84.4740406805
HLX-4981	H4981	413	CROMWELL WAY	37.9830235376	-84.5438325897
HLX-4982	H4982	4648	HICKORY CREEK DR	37.9598719001	-84.4850365581
HLX-4983	H4983	4621	HICKORY CREEK DR	37.9608515539	-84.4868723759
HLX-4984	H4984	3452	PARKERS MILL RD	38.0262362844	-84.5896117373
HLX-4985	H4985	3437	COLONNADE DR	37.9728145624	-84.4699493888
HLX-4986	H4986	3369	COLONNADE DR	37.9715870376	-84.4681904812
HLX-4987	H4987	373	CROMWELL WAY	37.9820815182	-84.5416393637
HLX-4988	H4988	180	ST IVES CIR	38.0036498224	-84.484112542
HLX-4989	H4989	3628	HIDDEN POND RD	38.0038492941	-84.4828395502
HLX-4990	H4990	1587	TRENT BLVD	37.9631806868	-84.4762159204
HLX-4991	H4991	2517	ABBNEYWOOD PL	37.9633287777	-84.4736840987
HLX-4992	H4992	2201	WOODBURN HALL RD	37.9600723082	-84.4765575236
HLX-4993	H4993	4789	PLEASANT GROVE RD	37.9612808658	-84.4759961404
HLX-4994	H4994	240	ABBNEYWOOD RD	37.9616025109	-84.4739488717
HLX-4995	H4995	1575	TRENT BLVD	37.9637303216	-84.4755118837
HLX-4996	H4996	1221	TRUMPETER ROW	38.0060306642	-84.4898432429
HLX-4997	H4997	580	KASP CT	37.9601274971	-84.3727508415
HLX-4998	H4998	5802	KASP CT	37.9591717351	-84.3717887961
HLX-4999	H4999	4733	SPRING CREEK DR	37.9618973403	-84.4826224948

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5000	H5000	4709	SPRING CREEK DR	37.9605895915	-84.483661047
HLX-5001	H5001	2516	SANDERSVILLE RD	38.0876900421	-84.5332233137
HLX-5002	H5002	3801	MT HOREB PIKE	38.1431623824	-84.4767382126
HLX-5003	H5003	108	PROSPEROUS PL	38.0008727131	-84.4443281847
HLX-5004	H5004	177	YORKSHIRE BLVD	37.9987170086	-84.4347055742
HLX-5005	H5005	450	PARKWAY DR	38.0353882456	-84.5232012692
HLX-5006	H5006	2278	FRANKFORT CT	38.067683828	-84.5516351766
HLX-5007	H5007	255	S FORBES RD	38.0556253461	-84.5250271902
HLX-5008	H5008	3807	BLACKBERRY LN	37.9736487136	-84.5545582748
HLX-5009	H5009	856	WYNDHAM HILLS DR	37.9731796829	-84.5529350236
HLX-5010	H5010	4017	HILLSIDE DR	37.9718017234	-84.5549953797
HLX-5011	H5011	4024	HILLSIDE DR	37.9715478532	-84.5541656032
HLX-5012	H5012	833	PALOMINO LN	38.0077035713	-84.5598662294
HLX-5013	H5013	841	QUARTER HORSE CT	38.0083623328	-84.5588361761
HLX-5014	H5014	3748	WILLOW RIDGE RD	37.9783249883	-84.5509278998
HLX-5015	H5015	4716	WATERSIDE CT	37.9918068153	-84.5935234
HLX-5016	H5016	4781	FIREBROOK BLVD	37.9928521953	-84.5948730406
HLX-5017	H5017	4745	FIREBROOK BLVD	37.9943866123	-84.5929204607
HLX-5018	H5018	3517	GERMANN CT	37.9816356326	-84.5405847218
HLX-5019	H5019	317	CROMWELL WAY	37.9810928493	-84.5394388183
HLX-5020	H5020	285	CROMWELL WAY	37.9803726358	-84.5381829088
HLX-5021	H5021	310	RETRAC RD	37.9810077704	-84.5378046552
HLX-5022	H5022	108	WILTON AVE	38.0604665992	-84.5179658634
HLX-5023	H5023	1210	TEXACO RD	38.0601407399	-84.5214964213
HLX-5024	H5024	123	HENTON RD	38.0592970888	-84.5163337934
HLX-5025	H5025	1218	LIGGETT ST	38.0594899478	-84.5227230816
HLX-5026	H5026	4713	BUD LN	37.9904681978	-84.5893970561
HLX-5027	H5027	4713	TRACE CT	37.9900803035	-84.5884778442
HLX-5028	H5028	2421	DOUBLETREE CT	37.9902131419	-84.5866840928
HLX-5029	H5029	4744	AGAPE DR	37.9899899697	-84.5852858453
HLX-5030	H5030	4721	MATTHEW CT	37.989011092	-84.5848051909
HLX-5031	H5031	2555	CAVE HILL LN	38.0144198927	-84.5772855814
HLX-5032	H5032	2929	FOUR PINES DR	38.0066756964	-84.4881653867
HLX-5033	H5033	4344	COBBLESTONE KNOLL DR	37.970719017	-84.5311164563

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 138 of 209
HLX-5034	H5034	4377	COBBLESTONE KNOLL DR	37.9694277701	-84.5313155616
HLX-5035	H5035	401	MCCONNELL SPRINGS RD	38.0570625463	-84.5291355723
HLX-5036	H5036	1365	CAHILL DR	38.0568648103	-84.5303350594
HLX-5037	H5037	1332	CAHILL DR	38.0567584663	-84.5284111942
HLX-5038	H5038	130	CAHILL DR	38.0566630674	-84.5266949943
HLX-5039	H5039	1512	EVANOFF CT	37.9717106483	-84.4713356906
HLX-5040	H5040	130	COPPER RUN BLVD	37.9825946658	-84.5682601125
HLX-5041	H5041	1333	COPPER RUN BLVD	37.9829461743	-84.5701959164
HLX-5042	H5042	1348	COPPER RUN BLVD	37.9832543616	-84.5717312549
HLX-5043	H5043	4420	COPPERFIELD DR	37.9838801025	-84.5713556585
HLX-5044	H5044	1328	COPPER CREEK DR	37.9837639361	-84.569673732
HLX-5045	H5045	1356	COPPERFIELD CT	37.9846669873	-84.5713061434
HLX-5046	H5046	1332	COPPERFIELD CT	37.9845703716	-84.569629923
HLX-5047	H5047	838	WYNDHAM HILLS DR	37.9731041625	-84.5518576911
HLX-5048	H5048	4053	HILLSIDE DR	37.9714718814	-84.5531443229
HLX-5049	H5049	100	ANDOVER FOREST DR	38.0059633141	-84.4188048161
HLX-5050	H5050	980	CHETFORD DR	38.006500604	-84.4174626531
HLX-5051	H5051	3220	PENBROKE PL	38.0071361076	-84.4163085201
HLX-5052	H5052	1101	SHEFFIELD PL	38.0081712708	-84.4166115901
HLX-5053	H5053	1056	ANDOVER FOREST DR	38.007024983	-84.4149510318
HLX-5054	H5054	1085	ANDOVER FOREST DR	38.007953885	-84.4141387087
HLX-5055	H5055	1120	SHEFFIELD PL	38.0092012121	-84.4153284805
HLX-5056	H5056	1169	SHEFFIELD PL	38.0102215626	-84.415516047
HLX-5057	H5057	1128	ANDOVER FOREST DR	38.0091668225	-84.4120166229
HLX-5058	H5058	3217	KETTERING CT	38.010424493	-84.412832808
HLX-5059	H5059	813	ANDOVER VILLAGE DR	37.9974559319	-84.4061814013
HLX-5060	H5060	792	ANDOVER VILLAGE DR	37.9966172439	-84.4077346657
HLX-5061	H5061	768	ANDOVER VILLAGE DR	37.9965205405	-84.4095372898
HLX-5062	H5062	836	GLEN ABBEY CIR	37.9972630093	-84.4085499488
HLX-5063	H5063	728	ANDOVER VILLAGE DR	37.9966333737	-84.4122247006
HLX-5064	H5064	701	ANDOVER VILLAGE DR	37.998064322	-84.413036721
HLX-5065	H5065	593	FOREST HILL DR	37.9986322424	-84.415227005
HLX-5066	H5066	3425	CHESTNUT HILL LN	37.9998631183	-84.4160215227
HLX-5067	H5067	4064	PALOMAR BLVD	38.0043676698	-84.582457885

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5068	H5068	4116	AMBERWOOD CT	38.0034906551	-84.5837033578
HLX-5069	H5069	1950	NICHOLASVILLE RD	38.0121941504	-84.5160797481
HLX-5070	H5070	2601	NICHOLASVILLE RD	37.999427853	-84.5211946403
HLX-5071	H5071	2499	NICHOLASVILLE RD	38.0012038939	-84.5203729585
HLX-5072	H5072	2434	NICHOLASVILLE RD	38.0026050656	-84.5198832617
HLX-5073	H5073	3529	WILLOW SPRING	38.0007722085	-84.4090973974
HLX-5074	H5074	3590	BRIARPATCH WAY	38.0018696721	-84.4088569759
HLX-5075	H5075	1041	AUTUMN RIDGE DR	38.0015571495	-84.4071622592
HLX-5076	H5076	1172	BAY MEADOWS DR	37.9843393704	-84.5605456656
HLX-5077	H5077	360	PALOMAR CENTRE DR	38.004539887	-84.5689788663
HLX-5078	H5078	1345	FRANKFORT PIKE	38.0578122298	-84.5263964095
HLX-5079	H5079	3153	COMANCHE TRL	38.0058284302	-84.5593308388
HLX-5080	H5080	3136	COMANCHE TRL	38.0063416474	-84.557597217
HLX-5081	H5081	3669	WINDING WOOD LN	37.9598572977	-84.4711098559
HLX-5082	H5082	3649	WINDING WOOD LN	37.9590547391	-84.4698080641
HLX-5083	H5083	2313	HICKORY LN	37.95899131	-84.4721936832
HLX-5084	H5084	2324	HICKORY LN	37.9585258057	-84.4709713518
HLX-5085	H5085	3717	WEMBLEY LN	37.9570398351	-84.4718338154
HLX-5086	H5086	228	PINEHURST CT	38.0706502644	-84.455163086
HLX-5087	H5087	481	STONE CREEK DR	37.9827531974	-84.5486065309
HLX-5088	H5088	436	STONE CREEK DR	37.9818767172	-84.5461207497
HLX-5089	H5089	2101	ROTHBURY RD	37.9563589634	-84.4824055148
HLX-5090	H5090	210	SHELTON RD	37.9573169421	-84.4817300563
HLX-5091	H5091	2117	SHELTON RD	37.9571586305	-84.4796447063
HLX-5092	H5092	4831	FAULKIRK LN	37.9573691214	-84.478197303
HLX-5093	H5093	4826	HARTLAND PKY	37.9579509864	-84.4781465212
HLX-5094	H5094	1205	ROCKBRIDGE RD	37.9622767275	-84.4876742507
HLX-5095	H5095	4637	FIELDMOOR DR	37.9613124937	-84.485504707
HLX-5096	H5096	677	ANDOVER VILLAGE PL	37.9989790954	-84.4129807488
HLX-5097	H5097	891	CYPRESS POINT WAY	37.9962161737	-84.4031563048
HLX-5098	H5098	3801	MUIRFIELD PL	37.9961296107	-84.4044375252
HLX-5099	H5099	842	SPYGLASS LN	37.9951298602	-84.4033050111
HLX-5100	H5100	3900	KENESAW DR	37.959931518	-84.4799527664
HLX-5101	H5101	3820	KENESAW DR	37.9611064286	-84.4786486938

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5102	H5102	3936	KENESAW DR	37.9592307982	-84.4817626921
HLX-5103	H5103	4810	HARTLAND PKY	37.9587595279	-84.479166569
HLX-5104	H5104	4732	CYPRESS CREEK CIR	37.9598665662	-84.4782339848
HLX-5105	H5105	1129	BROCK MCVEY DR	38.0347012072	-84.4501210355
HLX-5106	H5106	2459	NICHOLASVILLE RD	38.0018557307	-84.5201802411
HLX-5107	H5107	181	PROSPEROUS PL	38.0039688441	-84.4403747342
HLX-5108	H5108	3290	BLAZER PKY	38.00244349	-84.4383507238
HLX-5109	H5109	2201	ELKHORN RD	38.045683063	-84.4226211657
HLX-5110	H5110	2537	LARKIN RD	38.0001507612	-84.5178812161
HLX-5111	H5111	2381	BUENA VISTA RD	38.044414331	-84.4209150629
HLX-5112	H5112	3128	CHATHAM DR	38.0057147327	-84.5506930739
HLX-5113	H5113	2201	STOREY CT	37.9645800422	-84.4753278585
HLX-5114	H5114	1611	NORWOOD CIR	37.9620195586	-84.4763197692
HLX-5115	H5115	3899	DYLAN PL	37.9827390392	-84.5546426194
HLX-5116	H5116	872	OVERVIEW DR	37.9817861199	-84.5540758319
HLX-5117	H5117	836	OVERVIEW DR	37.9806492123	-84.5529707954
HLX-5118	H5118	804	OVERVIEW DR	37.9795653208	-84.5521547963
HLX-5119	H5119	4401	LANCASTER CT	37.9642241638	-84.4936246903
HLX-5120	H5120	1017	TANBARK RD	37.9632637942	-84.4928404853
HLX-5121	H5121	4468	HARTLAND PKY	37.9641410858	-84.4904806227
HLX-5122	H5122	1703	KENNING PL	37.9867865849	-84.5714398522
HLX-5123	H5123	1712	KENNING PL	37.9861979455	-84.5724253786
HLX-5124	H5124	430	SOUTHMOOR PK	37.9864858813	-84.5742375905
HLX-5125	H5125	1388	COPPERFIELD CT	37.9848269453	-84.5734643054
HLX-5126	H5126	1420	COPPERFIELD CT	37.9849666866	-84.5754222348
HLX-5127	H5127	1392	COPPER CREEK DR	37.9840678392	-84.5737694362
HLX-5128	H5128	1373	COPPER RUN BLVD	37.9831003634	-84.5731315964
HLX-5129	H5129	1396	COPPER RUN BLVD	37.9832466779	-84.574980075
HLX-5130	H5130	413	MERRIBROOK CT	37.9820649589	-84.5438326652
HLX-5131	H5131	417	STONE CREEK DR	37.9813680969	-84.544970819
HLX-5132	H5132	827	E 7TH ST	38.0439596289	-84.4705924451
HLX-5133	H5133	812	QUARTER HORSE CT	38.0069956696	-84.5585047598
HLX-5134	H5134	820	PALOMINO LN	38.0068411238	-84.5593000697
HLX-5135	H5135	4220	HAMPTON RDG	37.9881032409	-84.5717808832

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5136	H5136	4240	HAMPTON RIDGE DR	37.9876111021	-84.5722016532
HLX-5137	H5137	1616	HILL RISE DR	38.0469279532	-84.5327415041
HLX-5138	H5138	1684	HILL VIEW PL	38.0452250021	-84.5333269811
HLX-5139	H5139	3130	MAPLELEAF DR	38.0070689793	-84.4262129365
HLX-5140	H5140	3150	MAPLELEAF DR	38.0064457869	-84.4253474708
HLX-5141	H5141	3162	MAPLELEAF DR	38.0056181044	-84.424360208
HLX-5142	H5142	4221	SOUTHMOOR PK	37.9873423753	-84.5758432033
HLX-5143	H5143	4256	SOUTHMOOR PK	37.9880550475	-84.5744473677
HLX-5144	H5144	4308	PENSHURST SQ	37.9863217489	-84.5755583223
HLX-5145	H5145	308	ELM TREE LN	38.0468835797	-84.4884592732
HLX-5146	H5146	320	ELM TREE LN	38.0473821664	-84.4878270955
HLX-5147	H5147	436	BECKY PL	38.0003082603	-84.4545676198
HLX-5148	H5148	1069	AUTUMN RIDGE DR	38.0025444213	-84.4060504647
HLX-5149	H5149	1093	AUTUMN RIDGE DR	38.0031089822	-84.4056745539
HLX-5150	H5150	1104	AUTUMN RIDGE DR	38.0039096329	-84.4053720929
HLX-5151	H5151	1124	AUTUMN RIDGE DR	38.0048269793	-84.4055921478
HLX-5152	H5152	1120	WINTER HAVEN WAY	38.0031137277	-84.4064347397
HLX-5153	H5153	1112	WINTER HAVEN WAY	38.0028800533	-84.4069347636
HLX-5154	H5154	3512	INDIAN SUMMER TRL	38.0035814437	-84.4072943807
HLX-5155	H5155	1144	WINTER HAVEN WAY	38.0040118994	-84.4063511623
HLX-5156	H5156	828	RIDGEBROOK RD	38.0265623385	-84.4401270408
HLX-5157	H5157	833	KINGSBURY RD	38.0267391202	-84.4390177274
HLX-5158	H5158	2218	LIBERTY RD	38.0270646052	-84.4444774254
HLX-5159	H5159	793	RIDGEBROOK CIR	38.0246922384	-84.440464351
HLX-5160	H5160	2398	STONEWOOD LN	38.0250085962	-84.4399629375
HLX-5161	H5161	2383	STONEWOOD LN	38.0253186313	-84.4389202072
HLX-5162	H5162	808	COMANCHE CIR	38.0053586624	-84.5581298443
HLX-5163	H5163	1125	TURKEY FOOT RD	38.0079857433	-84.4903483027
HLX-5164	H5164	151	S LOCUST HILL DR	38.0011225079	-84.4517412064
HLX-5165	H5165	420	TODDS RD	37.99529676	-84.3890037697
HLX-5166	H5166	1213	TODDS STA	37.998248313	-84.3879208803
HLX-5167	H5167	1321	BIG POND CIR	38.0006881667	-84.386332808
HLX-5168	H5168	1225	TODDS STA	37.9992256765	-84.3854148699
HLX-5169	H5169	1241	TODDS STA	37.9985242338	-84.3833564245

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5170	H5170	1261	TODDS STA	38.0025916658	-84.4139246419
HLX-5171	H5171	703	GINGERMILL LN	37.9979085391	-84.4142587766
HLX-5172	H5172	679	GINGERMILL LN	37.996969929	-84.4156322773
HLX-5173	H5173	651	GINGERMILL LN	37.9964059791	-84.4172380877
HLX-5174	H5174	627	GINGERMILL LN	37.9963103947	-84.4188539584
HLX-5175	H5175	586	GINGERMILL LN	37.997462206	-84.4199467257
HLX-5176	H5176	2412	LA CROSS CT	37.9903088001	-84.5840124034
HLX-5177	H5177	2433	LA CROSS CT	37.9907597863	-84.5856326857
HLX-5178	H5178	2448	LA CROSS CT	37.9911685798	-84.587265009
HLX-5179	H5179	4768	RHEMA WAY	37.9895698206	-84.5825741854
HLX-5180	H5180	2356	HARRODSBURG RD	38.020702734	-84.5437562653
HLX-5181	H5181	1189	SHEFFIELD PL	38.009322113	-84.4166979334
HLX-5182	H5182	320	PENBROKE PL	38.0082270478	-84.4175955597
HLX-5183	H5183	4724	INMAN DR	37.9943211466	-84.594611462
HLX-5184	H5184	3956	PALOMAR BLVD	38.0086989886	-84.5781042691
HLX-5185	H5185	3948	PALOMAR BLVD	38.0086170361	-84.5766497476
HLX-5186	H5186	2414	GREATSTONE PT	38.0195442045	-84.5494399788
HLX-5187	H5187	2225	GULFSTREAM DR	38.0210762966	-84.5499115369
HLX-5188	H5188	2220	NEWMARKET WAY	38.0205267438	-84.5490649618
HLX-5189	H5189	493	SCOTTSDALE CIR	38.0764410827	-84.4770346728
HLX-5190	H5190	3448	TODDS RD	38.0025916658	-84.4139246419
HLX-5191	H5191	4127	TODDS RD	37.9958000912	-84.3950494864
HLX-5192	H5192	2288	SHANNAWOOD DR	38.0048867319	-84.5794199677
HLX-5193	H5193	2264	SHANNAWOOD DR	38.0057983844	-84.5779154756
HLX-5194	H5194	2221	SHANNAWOOD DR	38.0064070387	-84.5789701669
HLX-5195	H5195	2204	SHANNAWOOD DR	38.0057777371	-84.5804424598
HLX-5196	H5196	4513	CLUBHOUSE DR	37.9819740198	-84.5705034259
HLX-5197	H5197	4544	CLUBHOUSE DR	37.9804613741	-84.5709875091
HLX-5198	H5198	1344	CORONA DR	37.9810434448	-84.5696716326
HLX-5199	H5199	1316	CORONA DR	37.9797503714	-84.5702187417
HLX-5200	H5200	3873	BOSTON RD	37.9783287469	-84.553061942
HLX-5201	H5201	4221	CANTERBURY GREEN WAY	37.9880078517	-84.5711776717
HLX-5202	H5202	4236	CANTERBURY GREEN WAY	37.9875260696	-84.5705928568
HLX-5203	H5203	4220	CANTERBURY GREEN WAY	37.9880944186	-84.5708113818

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5204	H5204	1809	EVANS MILL RD	37.9201172573	-84.3888417298
HLX-5205	H5205	5536	ATHENS BOONESBORO RD	37.9614363554	-84.3866650634
HLX-5206	H5206	5536	ATHENS BOONESBORO RD	37.9616564358	-84.3864735426
HLX-5207	H5207	4798	MOSS CREEK DR	37.9620484799	-84.4779008311
HLX-5208	H5208	4504	HARTLAND PKY	37.9639920121	-84.4886820401
HLX-5209	H5209	4533	HARTLAND PKY	37.9637040377	-84.4873023841
HLX-5210	H5210	4739	HARTLAND PKY	37.9608700601	-84.4805510651
HLX-5211	H5211	3820	KENESAW DR	37.961108071	-84.4784530219
HLX-5212	H5212	3810	KENESAW DR	37.9617431612	-84.4781003613
HLX-5213	H5213	2084	GLADE LN	38.0049569604	-84.5753606014
HLX-5214	H5214	3923	PALOMAR BLVD	38.0060176601	-84.5751860596
HLX-5216	H5216	4660	HARTLAND PKY	37.9631224428	-84.4843538358
HLX-5217	H5217	1316	AMHERST DR	37.9618852186	-84.4839598374
HLX-5218	H5218	4664	HATHWAY DR	37.9627303152	-84.4855355166
HLX-5219	H5219	513	ADDISON AVE	38.0381922268	-84.5240135968
HLX-5220	H5220	1547	NEWTOWN PIKE	38.0876271619	-84.4897414081
HLX-5221	H5221	330	CLAYS MILL RD	37.9982736664	-84.5477097023
HLX-5222	H5222	4016	CLEARWATER WAY	37.9685699516	-84.5130420779
HLX-5223	H5223	410	BRIDGEMONT LN	37.9678419603	-84.5132057707
HLX-5224	H5224	4136	BRIDGEMONT LN	37.9677350076	-84.5147058341
HLX-5225	H5225	4201	RIDGEWATER DR	37.9665170138	-84.5127872025
HLX-5226	H5226	529	RIDGEWATER CT	37.9660394263	-84.5135339531
HLX-5227	H5227	1096	WELLINGTON WAY	38.007110305	-84.5723285348
HLX-5228	H5228	2180	PALOMAR TRACE DR	38.0068275118	-84.5720618547
HLX-5229	H5229	701	ENTERPRISE DR	38.0635238927	-84.5479550107
HLX-5230	H5230	70	ENTERPRISE DR	38.0626165486	-84.5481896874
HLX-5231	H5231	2051	ENTERPRISE CIR	38.0615567849	-84.5475127485
HLX-5232	H5232	720	ENTERPRISE DR	38.0622561743	-84.5487189317
HLX-5233	H5233	751	ENTERPRISE DR	38.0617489589	-84.5504942219
HLX-5234	H5234	110	HORSEMANS LN	38.0424517228	-84.5254031684
HLX-5235	H5235	1063	E NEW CIRCLE RD	38.036281384	-84.4538675824
HLX-5236	H5236	2139	TRADE CENTER DR	38.0363037901	-84.4511487746
HLX-5237	H5237	2150	TRADE CENTER DR	38.0363028774	-84.4494010879
HLX-5238	H5238	1460	CORONA DR	37.9823356755	-84.5747216234

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5239	H5239	1440	CORONA DR	37.982136122	-84.5731723898
HLX-5240	H5240	1428	COPPER GLEN DR	37.9814012724	-84.5731787444
HLX-5241	H5241	1468	COPPER GLEN DR	37.9807626271	-84.5756251462
HLX-5242	H5242	430	STONEHURST PL	37.9867593138	-84.5699593801
HLX-5243	H5243	4209	KENSINGTON GARDEN CT	37.988129046	-84.5698289528
HLX-5244	H5244	101	WESTHAMPTON DR	38.0782833199	-84.5414907761
HLX-5245	H5245	1621	JAGGIE FOX WAY	38.0813189395	-84.5165239371
HLX-5246	H5246	360	COTTAGE CIR	38.0073723088	-84.572923101
HLX-5247	H5247	3660	COTTAGE CIR	38.0077186172	-84.5739154717
HLX-5248	H5248	3712	COTTAGE CIR	38.0081092382	-84.5731666387
HLX-5249	H5249	4093	CLEARWATER WAY	37.9654770695	-84.5114731765
HLX-5250	H5250	4212	WATERTRACE DR	37.9647551871	-84.5118852302
HLX-5251	H5251	4329	WATERSTONE LN	37.9650284605	-84.5129455853
HLX-5252	H5252	4312	WATERTRACE CT	37.9639552295	-84.5111065911
HLX-5253	H5253	4045	PEPPERTREE DR	38.0098406779	-84.5783134607
HLX-5254	H5254	4816	FIREBROOK BLVD	37.9910803607	-84.5969097836
HLX-5255	H5255	112	E VINE ST	38.0449119505	-84.4975707764
HLX-5256	H5256	0	MAN O WAR BLVD	37.9681502372	-84.5011437823
HLX-5257	H5257	4220	SARON DR	37.9673134025	-84.5021226217
HLX-5258	H5258	4246	SARON DR	37.9661119555	-84.5019708316
HLX-5259	H5259	920	CHAS DR	37.9659028224	-84.5010197331
HLX-5260	H5260	393	CHASE PL	38.0017680029	-84.5364837751
HLX-5261	H5261	30	CHASE PL	38.0014087811	-84.5354366306
HLX-5262	H5262	1868	HAVERWOOD PK	37.985497596	-84.5712516174
HLX-5263	H5263	1841	HAVERWOOD PK	37.9855541535	-84.5693892679
HLX-5264	H5264	3324	BRIDLINGTON RD	38.0057043716	-84.4137060576
HLX-5265	H5265	1072	CHETFORD DR	38.0060691408	-84.4128689166
HLX-5266	H5266	1128	HAVERFORD WAY	38.0069155471	-84.4127728724
HLX-5267	H5267	1141	HAVERFORD WAY	38.0070427067	-84.4118618333
HLX-5268	H5268	916	ROYAL AVE	38.0428961986	-84.46882901
HLX-5269	H5269	3620	PHEASANT RUN	38.0006999818	-84.4060543957
HLX-5270	H5270	1013	DEER CROSSING WAY	37.9995773438	-84.4062798719
HLX-5271	H5271	3652	PHEASANT RUN	38.0002683472	-84.404674322
HLX-5272	H5272	377	MARBLEROCK WAY	37.9815357565	-84.5475413517

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HLX-5273	H5273	1420	COPPER RUN BLVD	37.9835615096	-84.5763885435
HLX-5274	H5274	2328	HARTLAND PARKSIDE DR	37.963362926	-84.4669661583
HLX-5275	H5275	240	PLEASANT POINTE DR	38.0036526128	-84.4541952223
HLX-5276	H5276	2899	GRIBBIN DR	38.0044491294	-84.4529922901
HLX-5277	H5277	1316	GLENVIEW DR	37.9785954022	-84.5718217835
HLX-5278	H5278	4516	COPPER KNOLL CIR	37.97899773	-84.5727823844
HLX-5279	H5279	4508	GLENVIEW CT	37.9794964367	-84.5739010977
HLX-5280	H5280	1428	GLENVIEW DR	37.9818631558	-84.5765088756
HLX-5281	H5281	4584	HARTLAND PKY	37.9638031413	-84.4858595344
HLX-5282	H5282	1312	HARTLAND WOODS WAY	37.9622457757	-84.4814612309
HLX-5283	H5283	4801	HARTLAND WOODS CT	37.9634680174	-84.4801705504
HLX-5284	H5284	1425	HARTLAND WOODS WAY	37.9640648748	-84.4799442315
HLX-5285	H5285	3717	BROADMOOR DR	37.9957826458	-84.4069324908
HLX-5286	H5286	3729	BROADMOOR DR	37.995489561	-84.4060809769
HLX-5287	H5287	825	BROADMOOR CIR	37.9960011423	-84.4060516639
HLX-5288	H5288	10	VENTURE CT	38.0816611444	-84.5489415387
HLX-5289	H5289	132	VENTURE CT	38.0807404234	-84.5491163868
HLX-5290	H5290	156	VENTURE CT	38.0802376198	-84.5493235994
HLX-5291	H5291	2520	ASHBROOKE DR	37.9874226778	-84.5941348374
HLX-5292	H5292	4913	MEGAN BAY CT	37.9879155563	-84.5960206779
HLX-5293	H5293	1220	FOUR WYND S TRL	37.9629488499	-84.488417656
HLX-5294	H5294	1164	FOUR WYND S TRL	37.961258725	-84.489229778
HLX-5295	H5295	6699	DEDMAN LN	38.021342696	-84.6374031318
HLX-5296	H5296	4202	FT SPRINGS PINCKARD RD	38.0328599685	-84.6328687525
HLX-5297	H5297	2233	MANGROVE DR	38.0016047117	-84.5858691241
HLX-5298	H5298	2261	MANGROVE DR	38.000624976	-84.5869344443
HLX-5299	H5299	1801	HAVERWOOD PK	37.9861016185	-84.5678762355
HLX-5300	H5300	1120	RED MILE PL	38.0460256857	-84.5257079003
HLX-5301	H5301	1116	JONESTOWN LN	37.9784177029	-84.4962244066
HLX-5302	H5302	4184	CLEMENS DR	37.9939877783	-84.5767619903
HLX-5303	H5303	361	W LOUDON AVE	38.0623829826	-84.4932442879
HLX-5304	H5304	360	W LOUDON AVE	38.062373237	-84.4944838444
HLX-5305	H5305	4833	FIREBROOK BLVD	37.9913136875	-84.5981946404
HLX-5306	H5306	2629	IDLEWOOD DR	37.9927794965	-84.5984312019

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5307	H5307	2592	ASHBROOKE DR	37.9881111308	-84.597584069
HLX-5309	H5309	2656	ASHBROOKE DR	37.9892980524	-84.6016727231
HLX-5310	H5310	2688	ASHBROOKE DR	37.9898397895	-84.6035081187
HLX-5311	H5311	4733	FIREBROOK BLVD	37.9947050647	-84.5920087237
HLX-5312	H5312	4712	FIREBROOK BLVD	37.9950089621	-84.5907510976
HLX-5313	H5313	2372	HARTLAND PARKSIDE DR	37.9624047584	-84.4646949523
HLX-5314	H5314	3633	HARTLAND PARKSIDE PL	37.9621580636	-84.4665664449
HLX-5315	H5315	4822	WINCHESTER RD	38.0293062506	-84.3413738564
HLX-5316	H5316	0	RUFFIAN WAY	38.098934458	-84.5534855022
HLX-5317	H5317	3475	SHAMROCK LN	38.1063720437	-84.5489184736
HLX-5318	H5318	549	PLEASANT POINTE CT	38.0040998248	-84.4550711057
HLX-5319	H5319	3760	BROADMOOR DR	37.9943124708	-84.4049501264
HLX-5320	H5320	1409	VERSAILLES RD	38.049540017	-84.527010691
HLX-5321	H5321	628	FOREST HILL DR	37.9982641791	-84.4120159555
HLX-5322	H5322	644	FOREST HILL DR	37.9984413554	-84.4114618764
HLX-5323	H5323	771	ENTERPRISE DR	38.0623253556	-84.5516328805
HLX-5324	H5324	791	ENTERPRISE DR	38.0624218773	-84.5532819215
HLX-5325	H5325	801	ENTERPRISE DR	38.0623261131	-84.5547707901
HLX-5326	H5326	885	RIDGEBROOK RD	38.0286654566	-84.4396471868
HLX-5327	H5327	865	KINGSBURY RD	38.0282577382	-84.4385286244
HLX-5328	H5328	2649	IDLEWOOD DR	37.9937091149	-84.5989608423
HLX-5329	H5329	4237	HEATHMOOR CT	37.9867933953	-84.5689227521
HLX-5330	H5330	170	TWAIN RIDGE DR	37.9850590529	-84.5664604753
HLX-5331	H5331	3797	KINGS GLEN PK	37.9859256458	-84.5671301145
HLX-5332	H5332	1753	ABBINGTON HILL	37.9872783066	-84.5668806165
HLX-5333	H5333	4872	FIREBROOK BLVD	37.992063627	-84.5998334567
HLX-5334	H5334	100	KAVENAUGH LN	38.0026052503	-84.4127632954
HLX-5335	H5335	1037	KAVENAUGH LN	38.0041941058	-84.4113654818
HLX-5336	H5336	4824	PLEASANT GROVE RD	37.9591099996	-84.4769509417
HLX-5337	H5337	4844	PLEASANT GROVE RD	37.9581033099	-84.4756514586
HLX-5338	H5338	1055	DUNCAN AVE	38.0394956846	-84.51851454
HLX-5339	H5339	861	CHILESBURG CT	37.9961470468	-84.4005170842
HLX-5340	H5340	833	CHILESBURG CT	37.9952429476	-84.4015662805
HLX-5341	H5341	3052	WACO RD	38.0060101989	-84.5437104907

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HLX-5342	H5342	3013	TULIP TRCE	38.0058966249	-84.5453881969
HLX-5343	H5343	2993	TULIP TRCE	38.0065319045	-84.5446683805
HLX-5344	H5344	910	BEAUMONT CENTRE PKY	38.0143190505	-84.5559170279
HLX-5345	H5345	3052	BEAUMONT CENTRE CIR	38.0160125014	-84.5563468457
HLX-5346	H5346	3401	BEAUMONT CENTRE CIR	38.0153452111	-84.5574088834
HLX-5347	H5347	3331	BEAUMONT CENTRE CIR	38.0151906829	-84.5583300384
HLX-5348	H5348	3301	BEAUMONT CENTRE CIR	38.0155142128	-84.5599961258
HLX-5349	H5349	0	MAN O WAR BLVD	38.0314063874	-84.5865276485
HLX-5350	H5350	1220	PLEASANT RIDGE DR	38.0053830471	-84.4048691154
HLX-5351	H5351	3596	FOREST SPRING CT	38.0063812075	-84.4049138587
HLX-5352	H5352	350	FOREST SPRING CT	38.0072136061	-84.4056209954
HLX-5353	H5353	3548	FOREST SPRING CT	38.0061458158	-84.4061583155
HLX-5354	H5354	70	RAINWATER DR	37.9649451916	-84.5092235354
HLX-5355	H5355	4101	RAINWATER CIR	37.9655580425	-84.5071264274
HLX-5356	H5356	410	SPRINGWATER DR	37.9650854233	-84.5055597979
HLX-5357	H5357	4125	SPRINGWATER DR	37.9640841025	-84.5060967721
HLX-5358	H5358	2310	HARRODS POINTE TRCE	37.9826360549	-84.5816596106
HLX-5359	H5359	658	MINT HILL LN	37.9955280778	-84.4146448779
HLX-5360	H5360	4762	MOSS CREEK DR	37.9636536852	-84.4784612505
HLX-5361	H5361	1528	GLOVER AVE	38.0513197869	-84.531135921
HLX-5362	H5362	1713	ABBINGTON HILL	37.9869110437	-84.5648906118
HLX-5363	H5363	3724	DUNSWOOD PL	37.9858937064	-84.5658212431
HLX-5364	H5364	1709	HAZELMOOR PL	37.9864150856	-84.5658536085
HLX-5365	H5365	1096	RAMBLEWOOD WAY	38.0025785768	-84.4037062849
HLX-5366	H5366	1073	DEER CROSSING WAY	38.0015430686	-84.4046901494
HLX-5367	H5367	1060	RAMBLEWOOD WAY	38.0011718408	-84.4026933805
HLX-5368	H5368	3301	CHELTENHAM DR	38.0060395949	-84.4163664533
HLX-5369	H5369	1032	CHETFORD DR	38.0047865138	-84.4149740907
HLX-5370	H5370	1980	LANGHORNE DR	37.9906503792	-84.5754582356
HLX-5371	H5371	4265	STEAMBOAT RD	37.9897927032	-84.5746240026
HLX-5372	H5372	2460	ENGLISH STATION DR	37.992375982	-84.5864784046
HLX-5373	H5373	2424	ENGLISH STATION DR	37.9919013542	-84.5845388494
HLX-5374	H5374	1026	FOREST LAKE DR	37.9508198643	-84.4910914529
HLX-5375	H5375	4717	BROOKSIDE WAY	37.9498987952	-84.4898290917

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5376	H5376	2041	ST STEPHENS GRN	38.0024320842	-84.5696443454
HLX-5377	H5377	4025	PEPPERTREE DR	38.0097782588	-84.576616341
HLX-5378	H5378	3916	PEPPERTREE DR	38.0073488045	-84.5774761859
HLX-5379	H5379	3729	WEEPING WILLOW WAY	37.9773465625	-84.5480589826
HLX-5380	H5380	370	WEEPING WILLOW WAY	37.9783967824	-84.548575751
HLX-5381	H5381	676	TWIN PINES WAY	37.9772637147	-84.5491434926
HLX-5382	H5382	1680	DONELWAL DR	38.1356617125	-84.5202724361
HLX-5383	H5383	2149	PALOMAR TRACE DR	38.0069146913	-84.5701878531
HLX-5384	H5384	4873	FIREBROOK BLVD	37.9929989379	-84.6003707652
HLX-5385	H5385	4916	WAYNES BLVD	37.9922447545	-84.6017597717
HLX-5386	H5386	2661	FIRESIDE CIR	37.993188775	-84.6020620952
HLX-5387	H5387	1020	EXPORT ST	38.0362219223	-84.5150687652
HLX-5388	H5388	1080	EXPORT ST	38.035767487	-84.5157801357
HLX-5389	H5389	209	SIMPSON AVE	38.0351598562	-84.5162339026
HLX-5390	H5390	633	HONEY LOCUST WAY	38.0072165506	-84.5446051355
HLX-5391	H5391	525	BROOKWATER LN	37.9673277124	-84.5112984497
HLX-5392	H5392	2243	STONEWOOD LN	38.0289998545	-84.4376820512
HLX-5393	H5393	3020	LAKECREST CIR	38.014874006	-84.5550478845
HLX-5394	H5394	2795	RESEARCH PARK DR	38.1381985205	-84.5069450054
HLX-5395	H5395	2712	ASHBROOKE DR	37.9906477377	-84.6032060404
HLX-5396	H5396	2849	ASHBROOKE DR	37.990127105	-84.6013898482
HLX-5397	H5397	4844	WATERSIDE DR	37.988776574	-84.5953817772
HLX-5398	H5398	4864	WATERSIDE DR	37.989380253	-84.593012061
HLX-5399	H5399	1347	THE KINGS CT	37.9632110893	-84.4816828489
HLX-5400	H5400	4057	WHITewater CIR	37.9694326749	-84.5126495267
HLX-5401	H5401	50	WHITewater CIR	37.9704298742	-84.512900312
HLX-5402	H5402	2278	HARRODS POINTE TRCE	37.9819153347	-84.5800566002
HLX-5403	H5403	1901	IRON WORKS PIKE	38.1222977789	-84.4563494138
HLX-5404	H5404	2206	STONEWOOD LN	38.0301469209	-84.4395613573
HLX-5405	H5405	2186	STONEWOOD LN	38.0306353389	-84.4404081766
HLX-5406	H5406	2201	WALSH CT	38.0300617163	-84.4407994864
HLX-5407	H5407	2332	GOLDEN OAK DR	37.9639808434	-84.4661842468
HLX-5408	H5408	1025	VERO CT	38.0032410454	-84.409773518
HLX-5409	H5409	70	RIVERWOOD LN	37.9753905852	-84.5521861718

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HLX-5410	H5410	744	WILLOW OAK CIR	37.9759434249	-84.5529589727
HLX-5411	H5411	785	WELLINGTON WAY	38.0044099186	-84.5591999516
HLX-5412	H5412	3613	BROOKGREEN CIR	37.9976948443	-84.4162849788
HLX-5413	H5413	1617	PARIS RD	38.0657160788	-84.4692730778
HLX-5414	H5414	332	PREAKNESS DR	38.0701011318	-84.4446823617
HLX-5415	H5415	1711	ATOMA DR	38.0864214211	-84.5130374174
HLX-5416	H5416	1723	ATOMA DR	38.0869456642	-84.5129466606
HLX-5417	H5417	3904	LYON DR	38.0029821902	-84.576454912
HLX-5418	H5418	720	MAPLE RIDGE LN	37.9952106979	-84.4077325178
HLX-5419	H5419	3012	WACO RD	38.0068310983	-84.5459025615
HLX-5420	H5420	795	LIBERTY HILL DR	38.0251836359	-84.4426225427
HLX-5421	H5421	756	LIBERTY HILL DR	38.0244289612	-84.4437812616
HLX-5422	H5422	200	MERCER RD	38.0797628412	-84.5366023276
HLX-5423	H5423	301	PELICAN LN	38.0709727283	-84.5203432099
HLX-5424	H5424	2345	FORTUNE DR	38.0391685066	-84.4475674674
HLX-5425	H5425	1229	HARMES WAY	38.007971968	-84.4043588274
HLX-5426	H5426	3765	WHITE PINE DR	37.9787106917	-84.5477048757
HLX-5427	H5427	3856	GRASSY CREEK DR	37.9816953326	-84.5562121074
HLX-5428	H5428	3797	MCGARRY DR	37.9809798351	-84.5558761132
HLX-5429	H5429	3833	MCGARRY DR	37.9798805499	-84.557222227
HLX-5430	H5430	2753	ASHBROOKE DR	37.9913050085	-84.6019169122
HLX-5431	H5431	2805	ASHBROOKE DR	37.9906545605	-84.5997348154
HLX-5432	H5432	3040	LAKECREST CIR	38.0157125368	-84.5530735923
HLX-5433	H5433	300	LAKECREST CIR	38.0167224194	-84.5543279243
HLX-5434	H5434	3764	CAMELOT DR	37.9754379301	-84.5106346459
HLX-5435	H5435	114	BROWN AVE	38.0415608118	-84.4601460391
HLX-5436	H5436	3640	ALLANTE BROOK CT	37.9779598552	-84.506551378
HLX-5437	H5437	3615	ALLANTE BROOK CT	37.9787956813	-84.5074351173
HLX-5438	H5438	1145	ANDOVER FOREST DR	38.0104699114	-84.4114894538
HLX-5439	H5439	3352	BRIGHTON PLACE DR	38.0094231941	-84.4080314655
HLX-5440	H5440	969	DEER CROSSING WAY	37.9994232099	-84.4043586522
HLX-5441	H5441	925	DEER CROSSING WAY	37.9997020074	-84.4020871273
HLX-5442	H5442	4169	WATERTRACE DR	37.966763631	-84.5093389393
HLX-5443	H5443	1898	MERCER RD	38.0776133194	-84.5311025099

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HLX-5444	H5444	1141	CHETFORD DR	38.0084445913	-84.4098580647
HLX-5445	H5445	4604	LANDING DR	37.9585376638	-84.48851805
HLX-5446	H5446	4633	RIVERMAN WAY	37.9573824607	-84.4890741772
HLX-5447	H5447	220	FOREST HILL DR	38.0054437117	-84.4203333166
HLX-5448	H5448	3176	STONECASE DR	38.0054339061	-84.421413414
HLX-5449	H5449	5032	WHITES LN	37.9265546725	-84.4118569618
HLX-5450	H5450	306	WALNUT HILL RD	37.927734503	-84.442997336
HLX-5451	H5451	3095	WALNUT HILL RD	37.9345527351	-84.4550130809
HLX-5452	H5452	3180	DELONG RD	37.9335572748	-84.4595073244
HLX-5453	H5453	4590	NICHOLASVILLE RD	37.9641805079	-84.5350815607
HLX-5454	H5454	648	ANDOVER VILLAGE PL	37.9998556757	-84.413641625
HLX-5455	H5455	3072	BLENHEIM WAY	38.0082838928	-84.5569130852
HLX-5456	H5456	3040	BLENHEIM WAY	38.0091262065	-84.558195884
HLX-5457	H5457	3133	COTTONTAIL LN	38.0074025663	-84.5578485072
HLX-5458	H5458	2908	GREEN PINE CT	38.0079196534	-84.5469931908
HLX-5459	H5459	4873	KEATS GROVE LN	37.9897295003	-84.5987641813
HLX-5460	H5460	809	GLEN ABBEY DR	37.9958887209	-84.4100342127
HLX-5461	H5461	740	WINTER HILL LN	37.994718187	-84.4102307829
HLX-5462	H5462	268	FOREST HILL DR	38.0038956955	-84.4211228117
HLX-5463	H5463	324	FOREST HILL DR	38.0022748701	-84.4209151931
HLX-5464	H5464	408	FOREST HILL DR	38.0004838282	-84.4212050292
HLX-5465	H5465	200	BLACKHORSE LN	38.0012896276	-84.5677659601
HLX-5466	H5466	2044	BLACKHORSE LN	38.00287	-84.56877
HLX-5467	H5467	3672	GLADMAN WAY	38.0018004309	-84.5668718184
HLX-5468	H5468	373	PLEASANT POINTE DR	38.0057158922	-84.4539903839
HLX-5469	H5469	328	PLEASANT POINTE DR	38.0048556367	-84.4558238391
HLX-5470	H5470	1951	PLEASANT RIDGE DR	38.0168864993	-84.4141413102
HLX-5471	H5471	1873	TIMBER CREEK DR	38.0157349188	-84.4142620285
HLX-5472	H5472	3093	GLENWOOD DR	38.0147608279	-84.4144420041
HLX-5473	H5473	1293	COLORADO RD	38.0149004924	-84.4117968869
HLX-5474	H5474	3165	GLENWOOD DR	38.0155068114	-84.4106149304
HLX-5475	H5475	1316	RED STONE DR	38.0161061938	-84.4112942751
HLX-5476	H5476	830	CITATION BLVD	38.0868853083	-84.4925019264
HLX-5477	H5477	1501	BULL LEA RD	38.0879769463	-84.4945200744

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HLX-5478	H5478	1048	WYNDHAM HILLS DR	37.9762737708	-84.5635450353
HLX-5479	H5479	1012	WYNDHAM HILLS DR	37.9758689291	-84.5614242288
HLX-5480	H5480	891	N YARNALLTON PIKE	38.1220622333	-84.573278762
HLX-5481	H5481	1197	WYNDHAM HILLS DR	37.9819553717	-84.5665522418
HLX-5482	H5482	1449	COPPER RUN BLVD	37.9835292598	-84.578487053
HLX-5483	H5483	3632	IRON LACE DR	38.0050073752	-84.4036430453
HLX-5484	H5484	1125	IRON LACE CT	38.0037277917	-84.4043621664
HLX-5485	H5485	4181	BRIDGEMONT LN	37.9660524248	-84.515566351
HLX-5486	H5486	2139	STONEWOOD LN	38.031501401	-84.4420126279
HLX-5487	H5487	1125	FOLEYS RETREAT	37.9788042711	-84.5660792833
HLX-5488	H5488	3821	GILLESPIES GLEN	37.9776020469	-84.5659535093
HLX-5489	H5489	1105	WYNDHAM HILLS DR	37.9783187132	-84.5643906078
HLX-5490	H5490	1148	WYNDHAM HILLS DR	37.9800554531	-84.5643400218
HLX-5491	H5491	1212	WYNDHAM FOREST CIR	37.9779435301	-84.5680226914
HLX-5492	H5492	3696	WHITE PINE DR	37.9795705549	-84.5466969372
HLX-5493	H5493	360	BEECHWOOD CIR	37.9791551194	-84.5457894717
HLX-5494	H5494	3621	WHITE PINE DR	37.9783480112	-84.5451558405
HLX-5495	H5495	821	WILLOW OAK CIR	37.9742438234	-84.5523043164
HLX-5496	H5496	776	WILLOW OAK CIR	37.9746044309	-84.55360603
HLX-5497	H5497	104	WOOD CT	37.9533765627	-84.4915477171
HLX-5498	H5498	1240	SPRING RUN RD	37.9845431194	-84.5659101934
HLX-5499	H5499	120	SPRING RUN RD	37.9832482243	-84.5643688596
HLX-5500	H5500	1224	SPECULATOR CT	37.9833095571	-84.5659939308
HLX-5501	H5501	2576	SUNGALE CT	37.993463001	-84.5916127759
HLX-5502	H5502	2537	SUNGALE CT	37.9938453159	-84.5900267904
HLX-5503	H5503	4908	FIREBROOK BLVD	37.9939537299	-84.6008682037
HLX-5504	H5504	3570	HUNTERS GREEN WAY	37.9992545017	-84.4180498997
HLX-5505	H5505	3585	HUNTERS GREEN WAY	37.9983554909	-84.4184402851
HLX-5506	H5506	1151	MORNING SIDE DR	38.0083713169	-84.4065242874
HLX-5507	H5507	1239	MORNING SIDE DR	38.0090176223	-84.4050635333
HLX-5508	H5508	4701	FOREST VIEW CT	37.9497678715	-84.493149309
HLX-5509	H5509	1155	HORSEMANS LN	38.0435890561	-84.527305042
HLX-5510	H5510	302	TURFWAY DR	38.0685326327	-84.4447436941
HLX-5511	H5511	3849	BARNARD DR	37.9982426682	-84.4036197134

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HLX-5513	H5513	4680	FIREBROOK BLVD	37.9961253965	-84.5892189148
HLX-5515	H5515	1781	HEADLEY GRN	38.0359730247	-84.5332371442
HLX-5516	H5516	1796	CHANDLER LN	38.0344075654	-84.532467677
HLX-5517	H5517	70	WIDENER CT	38.0341689842	-84.5304784467
HLX-5518	H5518	3816	TATES CREEK CT	37.9771997518	-84.4979845719
HLX-5519	H5519	1053	ALBERT LN	37.9786022947	-84.5624393915
HLX-5520	H5520	1072	MOYLAN LN	37.9793873519	-84.5625258023
HLX-5521	H5521	313	SHADOW GLEN CT	38.0141935377	-84.4462578396
HLX-5522	H5522	2619	WOODHILL DR	38.013199268	-84.4452173982
HLX-5523	H5523	1073	WYNDHAM HILLS DR	37.97725076	-84.5645771708
HLX-5524	H5524	828	MEADOWBROOK DR	38.0030059741	-84.5615986789
HLX-5525	H5525	856	MEADOWBROOK DR	38.0032835837	-84.5634208369
HLX-5526	H5526	821	WELLINGTON WAY	38.003882652	-84.5615681568
HLX-5527	H5527	669	WINTER HILL LN	37.995285894	-84.4118827506
HLX-5528	H5528	629	WINTER HILL LN	37.9942704002	-84.413659232
HLX-5529	H5529	713	SOUTHPOINT DR	37.9595409082	-84.5068623892
HLX-5530	H5530	745	PINNACLE CT	37.9609468602	-84.5083501646
HLX-5531	H5531	756	EMMETT CREEK LN	37.9604136391	-84.5093652752
HLX-5532	H5532	3721	RICHMOND RD	37.990704619	-84.4333905269
HLX-5533	H5533	3624	GREEN PARK CT	37.9922021935	-84.4347527852
HLX-5534	H5534	3648	FAIR RIDGE DR	37.9924681082	-84.4335407638
HLX-5535	H5535	3616	PARK POINTE DR	37.9937046407	-84.4337542817
HLX-5536	H5536	3791	N CLEVELAND RD	38.0552191168	-84.3533228681
HLX-5537	H5537	629	REPUBLIC CT	38.0235557227	-84.444901768
HLX-5538	H5538	628	DECLARATION CT	38.0230354064	-84.4439221354
HLX-5539	H5539	3113	HELMSDALE PL	38.0124413856	-84.4192114519
HLX-5540	H5540	3207	BRIGHTON PLACE DR	38.0112335677	-84.4177762019
HLX-5541	H5541	3176	BRIGHTON PLACE DR	38.0098288019	-84.4188702026
HLX-5542	H5542	3225	BRIGHTON PLACE DR	38.012142732	-84.4159665961
HLX-5543	H5543	3257	BRIGHTON PLACE DR	38.0118333567	-84.4138978506
HLX-5544	H5544	3277	BRIGHTON PLACE DR	38.011653236	-84.412282209
HLX-5545	H5545	845	GERARDI RD	38.023993461	-84.4370003646
HLX-5546	H5546	897	GERARDI RD	38.025023318	-84.4354985243
HLX-5547	H5547	1072	CRIMSON CREEK DR	38.0029739041	-84.4026113715

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5548	H5548	1021	CRIMSON CREEK DR	38.0006914073	-84.4014361595
HLX-5549	H5549	3052	MAPLELEAF PK	38.0083093765	-84.4270556201
HLX-5550	H5550	3885	ARIA LN	37.9800718287	-84.5675168878
HLX-5551	H5551	3833	ARIA LN	37.9810615189	-84.5680965733
HLX-5552	H5552	2102	CAPSTONE DR	38.0902224124	-84.5125444795
HLX-5553	H5553	4524	LANGLEY CIR	37.961242234	-84.4904577669
HLX-5554	H5554	1124	FOUR WYNDS TRL	37.9596891848	-84.49011495
HLX-5555	H5555	976	TANBARK RD	37.9610918265	-84.4914809633
HLX-5556	H5556	3101	BEAUMONT CENTRE CIR	38.0188952722	-84.5544484755
HLX-5557	H5557	1720	HEADLEY GRN	38.0368722152	-84.5320116832
HLX-5558	H5558	1815	TIMBER CREEK DR	38.0132339452	-84.4142526474
HLX-5559	H5559	1775	TIMBER CREEK DR	38.0130989876	-84.4122474657
HLX-5560	H5560	2040	MOUNTJOY PL	38.0034014343	-84.5668132752
HLX-5561	H5561	1924	WESTMEATH PL	38.0019986554	-84.5643429872
HLX-5562	H5562	3649	GLADMAN WAY	38.0024401269	-84.5659862852
HLX-5563	H5563	521	DEATON PL	37.9982278519	-84.4547365192
HLX-5564	H5564	425	ELM TREE LN	38.0487170862	-84.4862988806
HLX-5565	H5565	809	STATESMAN WAY	38.0407213861	-84.4659750058
HLX-5566	H5566	1576	LINDY LN	38.0395248209	-84.4654961328
HLX-5567	H5567	630	MINT HILL LN	37.9949102638	-84.4163200499
HLX-5568	H5568	692	FOREST HILL DR	37.9996480022	-84.4102515502
HLX-5570	H5570	652	GRAVISS CT	37.9892513558	-84.5610281625
HLX-5571	H5571	630	WAXWING WAY	37.9766361613	-84.499396004
HLX-5572	H5572	3870	SUGAR CREEK DR	37.9759079944	-84.4999969616
HLX-5573	H5573	689	SOUTHPOINT DR	37.9583257802	-84.5061722171
HLX-5574	H5574	745	ROSE HURST WAY	37.9591414081	-84.5095580483
HLX-5575	H5575	3801	SCARLETT OAK LN	37.9772658036	-84.5459436306
HLX-5576	H5576	3844	SCARLETT OAK LN	37.9760295903	-84.5465603115
HLX-5577	H5577	3474	RICHMOND RD	37.9952507659	-84.4395285454
HLX-5578	H5578	3556	BROOKEWIND WAY	37.9926640797	-84.4392206227
HLX-5579	H5579	1265	COLORADO RD	38.0135980804	-84.4114392407
HLX-5580	H5580	1237	RED STONE DR	38.0136548915	-84.4103533131
HLX-5581	H5581	2805	MASTERSON STATION DR	38.0878724236	-84.5551830998
HLX-5582	H5582	2901	SUMMERFIELD DR	38.0893586351	-84.5532596109

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5583	H5583	2941	SUMMERFIELD DR	38.0894016374	-84.5549516614
HLX-5584	H5584	2161	SANTA ANITA DR	38.0687776204	-84.445859867
HLX-5585	H5585	2141	BELMONT DR	38.069747119	-84.4466924481
HLX-5586	H5586	2097	BELMONT DR	38.07058	-84.44846
HLX-5587	H5587	2529	CASHEL CT	38.0131520481	-84.4470983204
HLX-5588	H5588	260	CASHEL CT	38.0119324052	-84.445431474
HLX-5589	H5589	3201	MANTILLA DR	38.014039189	-84.5587637001
HLX-5590	H5590	3248	MANTILLA DR	38.0139535134	-84.5618024438
HLX-5591	H5591	644	IRON WORKS PIKE	38.1117204066	-84.4263651911
HLX-5592	H5592	5900	WINCHESTER RD	38.0292368591	-84.3065128148
HLX-5593	H5593	3720	COMBS FERRY RD	38.0262948003	-84.3146301408
HLX-5594	H5594	3512	ROBINHILL WAY	38.0104789922	-84.5719756407
HLX-5595	H5595	3577	ROBINHILL WAY	38.0089496987	-84.5734270172
HLX-5596	H5596	3829	LANDRIDGE DR	37.9803881242	-84.5664520527
HLX-5597	H5597	4201	EVERGREEN DR	38.00136013	-84.5834151783
HLX-5598	H5598	4240	EVERGREEN DR	37.9996887233	-84.584688824
HLX-5599	H5599	2157	MANGROVE DR	38.0010027721	-84.5817923178
HLX-5600	H5600	4224	NUTMEG DR	38.0002087366	-84.583211346
HLX-5601	H5601	2117	MANGROVE DR	37.999678534	-84.5826254819
HLX-5602	H5602	2097	MANGROVE DR	37.9987448734	-84.5833937076
HLX-5603	H5603	2609	WALNUT GROVE LN	38.0235828988	-84.370526276
HLX-5604	H5604	120	KENNECOTT WAY	37.9839987787	-84.563863594
HLX-5605	H5605	1249	KENNECOTT WAY	37.9854594782	-84.5641961692
HLX-5606	H5606	164	MASTERTON STATION DR	38.0904595978	-84.5523122728
HLX-5607	H5607	20	MASTERTON STATION DR	38.0917577067	-84.5511865535
HLX-5608	H5608	233	GATEWAY PARK CIR	38.0917288458	-84.5491316438
HLX-5609	H5609	3550	SHAMROCK LN	38.106604768	-84.5524684683
HLX-5610	H5610	3589	SPURR RD	38.1115489015	-84.5524437277
HLX-5611	H5611	360	HALEY RD	38.0365183975	-84.3322576685
HLX-5612	H5612	430	HALEY RD	38.0511035258	-84.3225699229
HLX-5613	H5613	4449	HALEY RD	38.0540063686	-84.3235081683
HLX-5614	H5614	3889	BARNARD DR	37.9984359739	-84.4017260791
HLX-5615	H5615	3941	BARNARD DR	37.9983941075	-84.3997521373
HLX-5616	H5616	3988	BARNARD DR	37.9973613774	-84.4006930641

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5617	H5617	4201	CLEARWATER WAY	37.9614536063	-84.5068595882
HLX-5618	H5618	4385	JOSIAH WAY	37.9621406336	-84.5060311637
HLX-5619	H5619	4178	CLEARWATER WAY	37.9628650672	-84.5073591126
HLX-5620	H5620	717	SORRENTO LN	37.9626867675	-84.5094199179
HLX-5621	H5621	3151	BEAUMONT CENTRE CIR	38.0205601536	-84.5561310416
HLX-5622	H5622	3191	BEAUMONT CENTRE CIR	38.020228734	-84.5588077903
HLX-5623	H5623	3216	BEAUMONT CENTRE CIR	38.0188493524	-84.560624606
HLX-5624	H5624	300	FIELD WAY	38.0216070267	-84.5621665615
HLX-5625	H5625	965	RIDGEBROOK RD	38.0268075898	-84.4378397477
HLX-5626	H5626	2303	STONEWOOD LN	38.0273645955	-84.4359416875
HLX-5627	H5627	1033	SUMMER WIND LN	37.9475747007	-84.4858462133
HLX-5628	H5628	60	HUNTERS GREEN CT	38.0006092761	-84.4174478012
HLX-5629	H5629	528	HUNTERSKNOLL PL	38.00052577	-84.4193815219
HLX-5630	H5630	1209	ASPEN ST	38.0142041355	-84.4093317984
HLX-5631	H5631	1865	ALYSHEBA WAY	38.0197515725	-84.4193784128
HLX-5632	H5632	1824	ALYSHEBA WAY	38.0182798625	-84.4201647648
HLX-5633	H5633	4501	CALLAWAY CT	37.9635700917	-84.5250556138
HLX-5634	H5634	428	AMBERLEY DR	37.9623200827	-84.523727663
HLX-5635	H5635	40	WHITFIELD DR	37.9627776703	-84.5227230366
HLX-5636	H5636	240	FORTUNE DR	38.0360891898	-84.4480661716
HLX-5637	H5637	1895	VENDOR WAY	38.0200988224	-84.4229472479
HLX-5638	H5638	597	WINTER HILL LN	37.9933932464	-84.4153714586
HLX-5639	H5639	2433	FORTUNE DR	38.0343078228	-84.4475137796
HLX-5640	H5640	1190	BROCK MCVEY DR	38.0326960786	-84.4489647231
HLX-5642	H5642	2952	TRAILSIDE DR	38.0916274901	-84.5529992423
HLX-5643	H5643	241	MASTERSON STATION DR	38.0926319099	-84.5489820339
HLX-5644	H5644	2832	GATEWAY PARK LN	38.0907523996	-84.5488172694
HLX-5645	H5645	3330	TODDS RD	38.0043269867	-84.417263502
HLX-5646	H5646	2444	CHIMNEY POINT LN	38.0202461495	-84.438154274
HLX-5647	H5647	261	SIMPSON AVE	38.035844411	-84.5169280892
HLX-5648	H5648	4244	RIDGEWATER DR	37.9649014285	-84.5148233805
HLX-5649	H5649	60	ROLLING CREEK LN	37.9639175446	-84.5165605579
HLX-5650	H5650	649	MORGAN HILLS DR	38.0223335221	-84.4441168686
HLX-5651	H5651	693	MORGAN HILLS DR	38.0230955674	-84.4427482116

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5652	H5652	3233	WELLINGTON LN	38.0051830728	-84.5615304788
HLX-5653	H5653	3856	LANDRIDGE DR	37.9791553651	-84.5673142782
HLX-5654	H5654	170	GEORGETOWN ST	38.054436439	-84.5025855344
HLX-5655	H5655	4781	HALEY RD	38.0590610253	-84.3246128985
HLX-5656	H5656	869	MARBLEHEAD DR	38.0237039868	-84.4354049441
HLX-5657	H5657	848	REVERE RUN DR	38.0227300089	-84.4357015453
HLX-5658	H5658	893	REVERE RUN DR	38.0233888554	-84.4342287889
HLX-5659	H5659	3621	BOXLEA WAY	37.9655249866	-84.4687868332
HLX-5660	H5660	171	S CLEVELAND RD	37.9485762771	-84.3649540837
HLX-5661	H5661	0	S CLEVELAND RD	37.9435467055	-84.3644847877
HLX-5662	H5662	455	S CLEVELAND RD	37.9380392375	-84.3642980917
HLX-5663	H5663	189	ELLEMOOR LN	37.9922687457	-84.4403353161
HLX-5664	H5664	237	CATERA TRCE	38.0122286546	-84.4479078543
HLX-5665	H5665	741	HEARTSBROOK LN	38.0468718816	-84.5315633079
HLX-5666	H5666	1237	SHERBORNE PL	38.0117766985	-84.4103592807
HLX-5667	H5667	2999	ELAM VILLAGE DR	38.0320406774	-84.371275532
HLX-5668	H5668	220	MASTERSON STATION DR	38.0925125485	-84.5500259068
HLX-5669	H5669	2952	MASTERS VIEW RD	38.0937682088	-84.5510806044
HLX-5670	H5670	221	WOODBROOK PL	38.0937139088	-84.5499521704
HLX-5671	H5671	1193	COLORADO RD	38.0125138773	-84.4087272457
HLX-5672	H5672	1169	RED STONE DR	38.0132006354	-84.4083582582
HLX-5673	H5673	3033	FIELD WAY	38.0203517447	-84.5634286998
HLX-5674	H5674	3073	FIELD WAY	38.0182539102	-84.5639848235
HLX-5675	H5675	1057	CHASEWOOD WAY	38.0188840651	-84.5620523164
HLX-5676	H5676	1024	CHASEWOOD WAY	38.0197108894	-84.5618062912
HLX-5677	H5677	727	WHITNEY WOODS PL	38.0467525488	-84.5370215632
HLX-5678	H5678	3908	MCGARRY DR	37.9769302392	-84.5608103075
HLX-5679	H5679	1040	RIDGETREE LN	37.977868251	-84.5628700079
HLX-5680	H5680	2425	GEORGETOWN RD	38.098961336	-84.5141215807
HLX-5681	H5681	3081	FIELDSTONE WAY	38.0133880939	-84.5579071295
HLX-5682	H5682	121	ROSEMARY AVE	38.0624348728	-84.4706748943
HLX-5683	H5683	2981	HEMINGWAY LN	38.0225782774	-84.5648325726
HLX-5684	H5684	3225	HEMINGWAY LN	38.0215988849	-84.5693874093
HLX-5685	H5685	1312	JEKYLL DR	38.0227880252	-84.5670193217

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5686	H5686	2268	ROSWELL DR	38.0217554887	-84.5712097451
HLX-5687	H5687	130	SMYRNA LN	38.0238732297	-84.5701682519
HLX-5688	H5688	2265	SAVANNAH LN	38.0235100096	-84.5722095808
HLX-5689	H5689	1229	BIRMINGHAM LN	38.0225919629	-84.5693760689
HLX-5690	H5690	1320	MUMFORD LN	38.023526815	-84.5685868046
HLX-5691	H5691	4696	CARITA WOODS WAY	37.9490547142	-84.4952519938
HLX-5692	H5692	4721	CARITA WOODS WAY	37.9482917827	-84.4944150568
HLX-5693	H5693	1104	PARLIAMENT WAY	37.9797416918	-84.4966904059
HLX-5694	H5694	3793	LADY DI LN	37.9787484526	-84.4949272241
HLX-5695	H5695	4273	SARON DR	37.9648439401	-84.500918378
HLX-5696	H5696	3764	LADY DI LN	37.9794074331	-84.4944592396
HLX-5697	H5697	2432	FORTUNE DR	38.0334493888	-84.4463161528
HLX-5698	H5698	704	GRAFTONS MILL LN	38.0193535658	-84.4404792873
HLX-5699	H5699	2524	CHECKERBERRY DR	38.0178701543	-84.4416103956
HLX-5700	H5700	654	SMUGGLERS NOTCH DR	38.0189840149	-84.4396768411
HLX-5701	H5701	625	HUGGING BEAR LN	38.0180306096	-84.4397702848
HLX-5702	H5702	20	SHORESIDE DR	37.990628311	-84.4382190218
HLX-5703	H5703	236	SHORESIDE DR	37.9901375413	-84.4396619866
HLX-5704	H5704	3569	FOREST COVE LN	37.9908978476	-84.440131182
HLX-5705	H5705	4346	CLEARWATER WAY	37.9605331968	-84.5001610641
HLX-5706	H5706	2473	GEORGETOWN RD	38.1014696615	-84.514811626
HLX-5707	H5707	1708	JAGGIE FOX WAY	38.0875287312	-84.5175017138
HLX-5708	H5708	1728	JAGGIE FOX WAY	38.0891249474	-84.5179057401
HLX-5709	H5709	1853	SANDERSVILLE RD	38.0876655575	-84.5037735006
HLX-5710	H5710	642	BROOKGREEN LN	37.9971704637	-84.4174813057
HLX-5711	H5711	3581	COLT NECK LN	37.9988594276	-84.4758374682
HLX-5712	H5712	190	PLAUDIT PL	38.0185697438	-84.4159986992
HLX-5713	H5713	440	WHITFIELD DR	37.9620981147	-84.5208165583
HLX-5714	H5714	544	AMBERLEY DR	37.9613534853	-84.5190730316
HLX-5715	H5715	512	AMBERLEY DR	37.9606671512	-84.519858479
HLX-5716	H5716	472	AMBERLEY DR	37.9615167471	-84.5216275717
HLX-5718	H5718	289	SHORESIDE DR	37.9893648282	-84.4405789688
HLX-5719	H5719	2240	HUME RD	38.0451778834	-84.4182135252
HLX-5720	H5720	2124	AMI LN	38.0476493785	-84.4170334847

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HLX-5721	H5721	3132	ALTHORP WAY	38.0092131037	-84.4197678972
HLX-5722	H5722	1881	ARBOR STATION WAY	38.0880300197	-84.5057451257
HLX-5723	H5723	745	ST ELIAS LN	37.9571289005	-84.507762573
HLX-5724	H5724	4513	PALERMO LN	37.9567448105	-84.5087865814
HLX-5725	H5725	713	ST ELIAS LN	37.9578721334	-84.50923369
HLX-5726	H5726	4483	TANGLE HURST LN	37.9578819928	-84.5102881163
HLX-5727	H5727	916	LIMA CT	38.0718214299	-84.5074751255
HLX-5728	H5728	1750	PLEASANT RIDGE DR	38.0166929457	-84.412068718
HLX-5729	H5729	3176	GLENWOOD DR	38.0160903408	-84.4102760841
HLX-5730	H5730	1241	ASPEN ST	38.014734902	-84.4088688687
HLX-5731	H5731	1437	PLEASANT RIDGE DR	38.0136081297	-84.4075635438
HLX-5732	H5732	1396	PLEASANT RIDGE DR	38.0123672347	-84.4067478888
HLX-5733	H5733	640	ROLLING CREEK LN	37.9626530736	-84.5146783897
HLX-5734	H5734	685	ROLLING CREEK LN	37.9637614838	-84.5132596328
HLX-5735	H5735	4317	CREEK VALLEY WAY	37.9627534988	-84.5130922739
HLX-5736	H5736	677	EMMETT CREEK LN	37.9628236947	-84.5112012475
HLX-5737	H5737	696	EMMETT CREEK LN	37.9617136116	-84.5119456993
HLX-5738	H5738	285	MASTERSON STATION DR	38.0932114871	-84.5464447855
HLX-5739	H5739	2792	WOODLAWN WAY	38.0949742038	-84.5470603821
HLX-5740	H5740	261	MEADOW VALLEY RD	38.0944511508	-84.5483985395
HLX-5741	H5741	252	GATEWAY PARK CIR	38.0912920116	-84.5475491419
HLX-5742	H5742	517	DABNEY DR	38.0016538469	-84.4230048775
HLX-5743	H5743	3361	TYLER CT	38.000850745	-84.4232512081
HLX-5744	H5744	825	BURKEWOOD DR	38.0282334531	-84.4431019152
HLX-5745	H5745	885	BURKEWOOD DR	38.0283147057	-84.4410114888
HLX-5746	H5746	2236	KENWOOD DR	38.0271119188	-84.4414833226
HLX-5747	H5747	3657	LAREDO DR	37.9811765694	-84.5029118932
HLX-5748	H5748	3336	EMERSON WOODS WAY	37.9823850119	-84.5014986375
HLX-5749	H5749	603	SHERARD CIR	37.9807299668	-84.5005299617
HLX-5750	H5750	658	SHERARD CIR	37.9816545513	-84.4999353902
HLX-5751	H5751	3630	WALDEN DR	37.9792420521	-84.500013346
HLX-5752	H5752	3650	WALDEN DR	37.9781479731	-84.500439743
HLX-5753	H5753	932	ANDOVER GRN	38.0024442304	-84.4167288184
HLX-5754	H5754	564	HUNTERS GREEN CT	38.0018899106	-84.4186662913

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 159 of 209
HLX-5755	H5755	3349	SQUIRE CREEK WAY	37.9740678534	-84.46113112
HLX-5756	H5756	4160	CLEARWATER WAY	37.9640160636	-84.5080460498
HLX-5757	H5757	4088	KENESAW DR	37.9547958386	-84.4863167733
HLX-5758	H5758	4809	BENTLEY WAY	37.9561542154	-84.4844837906
HLX-5759	H5759	1116	SEVILLE CT	37.9563741076	-84.4858669383
HLX-5760	H5760	1550	ARISTIDES BLVD	38.0937947452	-84.4891662006
HLX-5761	H5761	210	LIGHTHOUSE LN	38.0285818417	-84.4483028085
HLX-5762	H5762	505	IVYBRIDGE DR	37.9508650525	-84.487297818
HLX-5763	H5763	928	FIRETHORN PL	37.9498433621	-84.4882127988
HLX-5764	H5764	1524	BULL LEA RD	38.0899962275	-84.4931264568
HLX-5765	H5765	4525	PALERMO LN	37.9560902589	-84.5089089329
HLX-5766	H5766	3059	CLAIR RD	38.005373955	-84.4864866375
HLX-5767	H5767	796	RAMBLING CREEK DR	38.0167106939	-84.4309157248
HLX-5768	H5768	756	RAMBLING CREEK DR	38.0159953751	-84.4321629799
HLX-5769	H5769	2668	CRYSTAL FALLS RD	38.0152416943	-84.4322194893
HLX-5770	H5770	769	MILES POINT WAY	38.0641520979	-84.5546730013
HLX-5771	H5771	3704	RIDGE VIEW WAY	37.992242283	-84.4168696895
HLX-5772	H5772	3740	PARK RIDGE LN	37.9918550416	-84.4186689872
HLX-5773	H5773	50	LAKE VALLEY DR	37.9928261413	-84.4191444098
HLX-5774	H5774	520	LAKE VALLEY DR	37.9935587087	-84.4184939729
HLX-5775	H5775	1099	DUVAL ST	37.9653740531	-84.4959478198
HLX-5776	H5776	631	BLUE ASH DR	38.0278156708	-84.532189661
HLX-5777	H5777	4359	BRYAN STATION RD	38.101473085	-84.3823946136
HLX-5778	H5778	3251	BEAUMONT CENTRE CIR	38.0167260564	-84.5611652876
HLX-5779	H5779	501	FOREST HILL DR	37.9994134857	-84.4201182797
HLX-5780	H5780	3396	MALONE DR	38.0134617101	-84.5736463328
HLX-5781	H5781	2212	WILMINGTON LN	38.0146420302	-84.5738733209
HLX-5782	H5782	260	ELLIS PK	38.0714884792	-84.4485103795
HLX-5783	H5783	1197	LACY LN	38.023877223	-84.5640707114
HLX-5784	H5784	721	HAGGIN PL	38.0354406998	-84.5312616932
HLX-5785	H5785	838	VERMILLION PEAK PASS	37.9556186377	-84.5071479573
HLX-5786	H5786	781	FITZROY LN	37.9560013828	-84.5101914495
HLX-5787	H5787	748	VERMILLION PEAK PASS	37.9548361532	-84.5107710946
HLX-5788	H5788	2259	JAGGIE FOX WAY	38.0981887115	-84.5181975515

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5789	H5789	0	MAN O WAR BLVD	37.9773460845	-84.5323777332
HLX-5790	H5790	0	MAN O WAR BLVD	37.9767105571	-84.5307163916
HLX-5791	H5791	4051	NICHOLASVILLE RD	37.9773825142	-84.5298731789
HLX-5792	H5792	4025	JOHN ALDEN LN	38.0443108702	-84.562111042
HLX-5793	H5793	2153	CALL DR	38.046429843	-84.4255517136
HLX-5794	H5794	210	EXECUTIVE DR	38.0468977361	-84.427659623
HLX-5795	H5795	2096	STONEWOOD LN	38.0304237024	-84.4440408909
HLX-5796	H5796	1217	ALDRIDGE WAY	37.9575905761	-84.4842578418
HLX-5797	H5797	1165	ALDRIDGE WAY	37.9575219356	-84.4864580504
HLX-5798	H5798	280	HANNA PL	38.0102179855	-84.4485838932
HLX-5799	H5799	1425	SADDLE CLUB WAY	38.047349893	-84.560735627
HLX-5800	H5800	1453	SADDLE CLUB WAY	38.0469072007	-84.5617326671
HLX-5801	H5801	2532	DRESSAGE WAY	38.0480270107	-84.5615335906
HLX-5802	H5802	1396	SADDLE CLUB WAY	38.0488532295	-84.5606891194
HLX-5803	H5803	1352	SADDLE CLUB WAY	38.0496795282	-84.5619975659
HLX-5804	H5804	1320	SADDLE CLUB WAY	38.0483736809	-84.5625769236
HLX-5805	H5805	1470	GREENDALE RD	38.1022419841	-84.5250286482
HLX-5806	H5806	1248	GREENDALE RD	38.0968141834	-84.5275322376
HLX-5807	H5807	5317	WINCHESTER RD	38.0290681692	-84.3263681302
HLX-5808	H5808	6177	WINCHESTER RD	38.0310930524	-84.2957330026
HLX-5809	H5809	847	EASTMONT RD	38.0302252844	-84.4422220162
HLX-5810	H5810	2077	STONEWOOD LN	38.029779371	-84.4442867149
HLX-5811	H5811	2157	HADDON DR	38.0287639785	-84.4454021026
HLX-5812	H5812	2192	HADDON DR	38.0277107854	-84.4442550519
HLX-5813	H5813	4901	MT HOREB PIKE	38.167646838	-84.463550601
HLX-5814	H5814	4546	MT HOREB PIKE	38.1606390999	-84.4669908656
HLX-5815	H5815	4346	MT HOREB PIKE	38.1556044233	-84.4696599427
HLX-5816	H5816	2789	JACQUELYN LN	38.0932774576	-84.5439456715
HLX-5817	H5817	441	LUCILLE DR	38.0928268189	-84.5415999052
HLX-5818	H5818	357	LUCILLE DR	38.0916100838	-84.5439354639
HLX-5819	H5819	293	LUCILLE DR	38.0902355996	-84.5456536347
HLX-5820	H5820	337	ELLA RAE LN	38.0909196875	-84.5435354827
HLX-5821	H5821	2742	MABLE LN	38.0892739123	-84.5431835641
HLX-5822	H5822	1025	MONARCH ST	38.0216730512	-84.5555550661

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5823	H5823	372	PINEWOOD CT	38.0090297752	-84.4406148278
HLX-5824	H5824	210	CAPSTONE DR	38.091041181	-84.5153540585
HLX-5825	H5825	2141	CAPSTONE DR	38.0914484776	-84.5178573586
HLX-5826	H5826	2156	ALLEGHENY WAY	38.0240504042	-84.5626433971
HLX-5827	H5827	1120	ROLFE LN	38.0252533545	-84.5632495596
HLX-5828	H5828	60	DANBY WOODS DR	38.0187617362	-84.4426017503
HLX-5829	H5829	824	FOREST LAKE DR	37.9480308543	-84.4974295119
HLX-5830	H5830	536	RHODORA RDG	37.9836582265	-84.5004848384
HLX-5831	H5831	60	POPLAR SPRINGS LN	37.9617956894	-84.5176218114
HLX-5832	H5832	4461	RIVER RIDGE RD	37.9610193703	-84.5152286366
HLX-5833	H5833	672	POPLAR SPRINGS LN	37.9601271727	-84.5136991218
HLX-5834	H5834	1077	DUVAL ST	37.9647447642	-84.4977270635
HLX-5835	H5835	985	CHAS DR	37.96565756	-84.4981815985
HLX-5836	H5836	1065	DUVAL ST	37.9642432462	-84.4989718051
HLX-5837	H5837	4376	CLEARWATER WAY	37.9616224638	-84.4987767341
HLX-5838	H5838	2160	SIR BARTON WAY	38.0216791061	-84.420761919
HLX-5839	H5839	1865	ALYSHEBA WAY	38.020678021	-84.4189265189
HLX-5840	H5840	4799	BRYAN STATION RD	38.1084562023	-84.370650619
HLX-5841	H5841	1290	VILEY RD	38.0511069396	-84.559875553
HLX-5842	H5842	918	LITERARY CIR	38.0126105716	-84.5586253541
HLX-5843	H5843	2748	WOODLAWN WAY	38.0944131795	-84.5443653859
HLX-5844	H5844	270	WOODLAWN WAY	38.0956190868	-84.5430418594
HLX-5845	H5845	308	VALLEY BROOK DR	38.0951006457	-84.5457970768
HLX-5846	H5846	328	DEERFIELD LN	38.0963663675	-84.5461950996
HLX-5847	H5847	309	MEADOW VALLEY RD	38.0963331867	-84.5473292954
HLX-5848	H5848	360	VALLEY BROOK DR	38.0967449698	-84.5444717878
HLX-5849	H5849	413	MEADOW VALLEY RD	38.0974863296	-84.5434806307
HLX-5851	H5851	2272	CHAMBLEE LN	38.0248846585	-84.5673929868
HLX-5852	H5852	1890	STAR SHOOT PKY	38.0244387515	-84.4236655435
HLX-5853	H5853	0	SIR BARTON WAY	38.0225900352	-84.4225248483
HLX-5854	H5854	989	STAR SHOOT PKY	38.0226260857	-84.4268277094
HLX-5855	H5855	901	STAR SHOOT PKY	38.0207505953	-84.4289010336
HLX-5856	H5856	848	STAR SHOOT PKY	38.0197039774	-84.4300135558
HLX-5857	H5857	2645	RED LEAF DR	38.0187149629	-84.4282510136

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5858	H5858	2688	RED LEAF DR	38.0173013687	-84.4269041318
HLX-5859	H5859	80	GUNPOWDER DR	38.0163676573	-84.4284191135
HLX-5860	H5860	801	LIVANIA LN	38.0177916325	-84.4298309355
HLX-5861	H5861	2052	ALLEGHENY WAY	38.0270770586	-84.5619810899
HLX-5862	H5862	2229	SAVANNAH LN	38.0254472231	-84.5708398171
HLX-5863	H5863	201	ALLEGHENY WAY	38.0265974926	-84.5638879941
HLX-5864	H5864	210	ALLEGHENY WAY	38.0257524841	-84.561734727
HLX-5865	H5865	950	CONTRACT ST	38.0507031668	-84.4647776225
HLX-5866	H5866	1015	CONTRACT ST	38.0512364256	-84.4622914271
HLX-5867	H5867	100	FLOYD DR	38.0501575268	-84.4608819615
HLX-5868	H5868	1993	SANDERSVILLE RD	38.0861002838	-84.5101668123
HLX-5869	H5869	1977	ARBOR STATION WAY	38.0867796895	-84.5101212515
HLX-5870	H5870	1917	ARBOR STATION WAY	38.0874669673	-84.5072901471
HLX-5871	H5871	130	TUPELO LN	38.0256896306	-84.5692337192
HLX-5872	H5872	2201	SAVANNAH LN	38.0274340722	-84.570440763
HLX-5873	H5873	1273	LITCHFIELD LN	38.0261881784	-84.5665748632
HLX-5874	H5874	1224	LITCHFIELD LN	38.0247053949	-84.5663724988
HLX-5875	H5875	251	YORKSHIRE BLVD	38.0013682032	-84.4308688561
HLX-5876	H5876	701	N YARNALLTON PIKE	38.1164760654	-84.5783178148
HLX-5877	H5877	345	RUCCIO WAY	37.9947966075	-84.5335195503
HLX-5878	H5878	40	SPORTING CT	37.9971654021	-84.533358777
HLX-5879	H5879	261	RUCCIO WAY	37.9968096102	-84.5305015074
HLX-5880	H5880	2566	KNIGHTSBRIDGE LN	38.0294645	-84.4468797307
HLX-5881	H5881	2601	WHITEBERRY DR	38.0845137838	-84.5520803898
HLX-5882	H5882	2657	WHITEBERRY DR	38.0830973906	-84.5502540798
HLX-5883	H5883	2760	WHITEBERRY DR	38.0825483818	-84.5521452652
HLX-5884	H5884	2798	WHITEBERRY DR	38.0832732204	-84.5533260099
HLX-5885	H5885	221	CHESTNUT RIDGE DR	38.0816913401	-84.5549730575
HLX-5886	H5886	184	CLOVER VALLEY DR	38.0813150031	-84.552883816
HLX-5887	H5887	248	CLOVER VALLEY DR	38.0801588565	-84.5542549883
HLX-5888	H5888	296	PREAKNESS DR	38.0717098016	-84.4459452609
HLX-5889	H5889	3349	MALONE DR	38.0155738251	-84.5717826583
HLX-5890	H5890	1989	BRYANT RD	38.0185335512	-84.4115680546
HLX-5891	H5891	2912	POLO CLUB BLVD	38.0245526216	-84.4058374211

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5892	H5892	2225	BARRINGTON LN	38.0220060381	-84.4018919557
HLX-5893	H5893	3149	CAVERSHAM PARK LN	38.0202521181	-84.4008523166
HLX-5894	H5894	2233	BLACKMOOR PARK LN	38.0206429504	-84.4025818107
HLX-5895	H5895	3205	CAVERSHAM PARK LN	38.0202521181	-84.4008523166
HLX-5896	H5896	3012	POLO CLUB BLVD	38.0208255012	-84.4036724238
HLX-5897	H5897	4293	SARON DR	37.9638426386	-84.5003190373
HLX-5898	H5898	976	HAMMOCK OAK LN	37.9623443911	-84.4991247092
HLX-5899	H5899	4324	CALAIS PL	37.9625648803	-84.5004818605
HLX-5900	H5900	68	CODELL DR	38.0107410271	-84.4501726653
HLX-5901	H5901	1532	BULL LEA RD	38.0918544032	-84.4927766546
HLX-5902	H5902	1551	MCGRATHIANA PKY	38.0932462925	-84.4942213172
HLX-5903	H5903	1551	ARISTIDES BLVD	38.0945073443	-84.4914554215
HLX-5904	H5904	3980	KENESAW DR	37.9576952834	-84.4831117353
HLX-5905	H5905	4837	CLIFFORD CIR	37.9590639807	-84.4831338509
HLX-5906	H5906	709	WHISPERING BROOK TRCE	38.0164737996	-84.4331233454
HLX-5907	H5907	1684	CHANDLER LN	38.0356166407	-84.5299230184
HLX-5908	H5908	4844	CHELMSBURY LN	37.9551042758	-84.4838298862
HLX-5909	H5909	2729	JACQUELYN LN	38.0911210107	-84.5414028005
HLX-5910	H5910	325	PRINCESS ARCH LN	38.0900942554	-84.5408480414
HLX-5911	H5911	2684	MABLE LN	38.0887442644	-84.5407296893
HLX-5912	H5912	2608	MABLE LN	38.0906602577	-84.539596151
HLX-5913	H5913	2189	BIRKDALE DR	38.0152402838	-84.40338998
HLX-5914	H5914	3257	ROYAL TROON RD	38.0139996026	-84.4038009844
HLX-5915	H5915	3345	ROYAL TROON RD	38.0156214568	-84.4049343708
HLX-5916	H5916	2025	SHAKER RUN RD	38.0190804367	-84.4047771351
HLX-5917	H5917	2085	SHAKER RUN RD	38.0176129226	-84.4061942086
HLX-5918	H5918	2149	SHAKER RUN RD	38.0162584512	-84.4054693751
HLX-5919	H5919	3045	QUAKER HILL LN	38.0171711773	-84.4047397427
HLX-5920	H5920	2269	SHAKER RUN RD	38.0183690185	-84.4017306704
HLX-5921	H5921	2225	SHAKER RUN RD	38.0165879219	-84.4018939221
HLX-5922	H5922	3096	POLO CLUB BLVD	38.0167585415	-84.4036717941
HLX-5923	H5923	3232	POLO CLUB BLVD	38.0154928329	-84.4024991127
HLX-5924	H5924	308	CHARLESTON GARDENS BLVD	37.9447754606	-84.4846148862
HLX-5925	H5925	3036	CHARLESTON GARDENS BLVD	37.9440938873	-84.4858907994

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 164 of 209
HLX-5926	H5926	3016	ASHLEY OAKS DR	37.9438068669	-84.4847311866
HLX-5927	H5927	201	RUCCIO WAY	37.9936647629	-84.5300399521
HLX-5928	H5928	233	RUCCIO WAY	37.9959266627	-84.5289171685
HLX-5929	H5929	748	NICKWOOD TRL	38.0162922068	-84.4345004107
HLX-5930	H5930	80	NICKWOOD TRL	38.0173598203	-84.4332029856
HLX-5931	H5931	2197	CURTISWOOD DR	38.0478689818	-84.425684419
HLX-5933	H5933	2065	CORIANDE LN	38.0479896349	-84.4285623301
HLX-5934	H5934	2109	CALL DR	38.0474111941	-84.4268693391
HLX-5935	H5935	3413	PUEBLO CT	38.0126475592	-84.4060304493
HLX-5936	H5936	3360	PUEBLO CT	38.0138153595	-84.4065335957
HLX-5937	H5937	2829	ASHBY GLEN PL	38.0115461617	-84.446328334
HLX-5938	H5938	2945	SANDERSVILLE RD	38.1000558391	-84.5399018019
HLX-5939	H5939	424	ST JOHN CT	38.0749546892	-84.476067057
HLX-5940	H5940	2241	DOGWOOD TRACE BLVD	37.983987579	-84.582822053
HLX-5941	H5941	2133	LADERA LN	37.9846975104	-84.582346422
HLX-5942	H5942	4801	DRESDEN WAY	37.9868417721	-84.5824436988
HLX-5943	H5943	1332	WAKEHURST CT	38.0110683923	-84.4066791066
HLX-5944	H5944	4323	LEESTOWN RD	38.1145337042	-84.5917494609
HLX-5945	H5945	2297	DOGWOOD TRACE BLVD	37.983293292	-84.5806203424
HLX-5946	H5946	2340	DOGWOOD TRACE BLVD	37.9851602263	-84.581171511
HLX-5947	H5947	380	MASTERSON STATION DR	38.09410867	-84.5419988165
HLX-5948	H5948	408	MASTERSON STATION DR	38.0944609714	-84.5407509668
HLX-5949	H5949	437	SKYVIEW LN	38.0960844589	-84.5411578587
HLX-5950	H5950	481	SKYVIEW LN	38.0977887289	-84.5412040949
HLX-5951	H5951	2909	SANDERSVILLE RD	38.0986485694	-84.5401672819
HLX-5952	H5952	505	LEMON DROP LN	38.0987945161	-84.5414721091
HLX-5953	H5953	476	LEMON DROP LN	38.0973422968	-84.5422653898
HLX-5954	H5954	441	LEMON DROP LN	38.0958220564	-84.5421569146
HLX-5955	H5955	2156	ROSWELL DR	38.0291609584	-84.5691869457
HLX-5956	H5956	1236	SEBRING LN	38.029139448	-84.5672081763
HLX-5957	H5957	2133	NAPLES LN	38.0301676746	-84.5678075853
HLX-5958	H5958	2197	ROSWELL DR	38.0271881904	-84.5683739084
HLX-5959	H5959	5053	IVYBRIDGE DR	37.9486839222	-84.4884085579
HLX-5960	H5960	5105	IVYBRIDGE DR	37.947052588	-84.4905478185

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 165 of 209
HLX-5961	H5961	1051	RED MILE RD	38.0397387383	-84.5218816198
HLX-5962	H5962	30	CEDAR MILL CIR	38.0896387038	-84.5398005959
HLX-5963	H5963	1996	PARKERS MILL RD	38.0340805444	-84.5681175598
HLX-5964	H5964	2000	PARKERS MILL RD	38.0323439679	-84.5665865323
HLX-5965	H5965	1910	JAGGIE FOX WAY	38.0952820424	-84.51772545
HLX-5966	H5966	1801	JAGGIE FOX WAY	38.0929035897	-84.5179117193
HLX-5967	H5967	3276	DRAYTON PL	37.9973874581	-84.5430207139
HLX-5968	H5968	3249	DRAYTON PL	37.9985440754	-84.5434601904
HLX-5969	H5969	3191	MAPLELEAF DR	38.0025215448	-84.4242232535
HLX-5970	H5970	301	TOWN BRANCH RD	38.0891354643	-84.5587028886
HLX-5971	H5971	3012	TOWN BRANCH RD	38.0890842986	-84.559777677
HLX-5972	H5972	181	ANGEL FALLS DR	38.0877189089	-84.5608728392
HLX-5973	H5973	124	LEATHERWOOD LN	38.0887109713	-84.5610259742
HLX-5974	H5974	3020	CADDIS LN	38.0892134685	-84.561840403
HLX-5975	H5975	101	BLUE HERON PL	38.0897894585	-84.5627996447
HLX-5976	H5976	3276	MALONE DR	38.0177426058	-84.5721284297
HLX-5977	H5977	3285	SEBASTIAN LN	38.0192641597	-84.5726744231
HLX-5978	H5978	3221	SEBASTIAN LN	38.0182649901	-84.569428262
HLX-5979	H5979	2236	BARNWELL LN	38.0190948213	-84.571028289
HLX-5980	H5980	3201	RIDGECANE RD	38.0202700933	-84.57118971
HLX-5981	H5981	1233	KANNAPOLIS PL	38.0202940938	-84.5692444298
HLX-5982	H5982	645	MANNINGTON PL	37.9991335191	-84.5449831448
HLX-5983	H5983	301	DARENIA LN	38.0870763191	-84.5438097384
HLX-5984	H5984	232	DARENIA LN	38.0856053866	-84.5446542742
HLX-5985	H5985	20	DARENIA LN	38.0844359026	-84.5450316664
HLX-5986	H5986	110	FERNDALE PASS	38.0837527567	-84.5438568721
HLX-5987	H5987	2533	SPRING VALLEY LOOP	38.0847985667	-84.5430651096
HLX-5988	H5988	257	SPRING VALLEY LN	38.0859597271	-84.5434941674
HLX-5989	H5989	309	SPRING VALLEY LN	38.0871985225	-84.542717122
HLX-5990	H5990	2505	BUCK LN	38.0863774272	-84.5418375105
HLX-5991	H5991	492	WELLINGTON WAY	37.9972222473	-84.5400818791
HLX-5992	H5992	3284	DORCHESTER PL	37.9970677658	-84.5412678726
HLX-5993	H5993	3240	MARSTON PL	37.9985728068	-84.5417943483
HLX-5994	H5994	532	WELLINGTON WAY	37.9990697756	-84.540690343

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-5995	H5995	568	WELLINGTON WAY	38.0002042331	-84.5421000477
HLX-5996	H5996	320	DRAYTON PL	38.0007530519	-84.5440291429
HLX-5997	H5997	1425	SCARLETT WAY	37.9906508521	-84.5710139447
HLX-5998	H5998	3301	DRAYTON PL	37.9969563965	-84.5432423364
HLX-5999	H5999	3341	DRAYTON PL	37.9957147659	-84.5440166276
HLX-6000	H6000	3333	DORCHESTER PL	37.9950445972	-84.5416352189
HLX-6001	H6001	590	HADLOW ST	37.9955729723	-84.5429614054
HLX-6002	H6002	3301	DORCHESTER PL	37.9964969768	-84.5417615301
HLX-6003	H6003	146	E SHORT ST	38.0461592449	-84.4955515011
HLX-6004	H6004	899	BELMERE DR	38.0218846819	-84.4310703168
HLX-6005	H6005	2531	FLYING EBONY DR	38.0229753629	-84.4323829639
HLX-6006	H6006	2540	BELMERE DR	38.0230467325	-84.4297519152
HLX-6007	H6007	974	FIDDLER CREEK WAY	37.9638717844	-84.5020425782
HLX-6008	H6008	754	CHILESBURG RD	37.9939415201	-84.4026805472
HLX-6009	H6009	801	DENAALI PASS	37.9935315024	-84.4005922875
HLX-6010	H6010	4172	BOONE CREEK RD	37.9940718561	-84.4000755811
HLX-6011	H6011	4029	BOONE CREEK RD	37.9936672386	-84.3986513363
HLX-6012	H6012	4059	BOONE CREEK RD	37.9944366259	-84.3975461543
HLX-6013	H6013	2796	MICHELLE PK	38.0888830914	-84.547055577
HLX-6014	H6014	2740	MICHELLE PK	38.0882226226	-84.5454513197
HLX-6015	H6015	2680	MICHELLE PK	38.0873512578	-84.5446523887
HLX-6016	H6016	589	ALDERBROOK WAY	37.9632818521	-84.5180451883
HLX-6017	H6017	565	ALDERBROOK WAY	37.9638496522	-84.5191008489
HLX-6018	H6018	4341	RIVER OAK TRL	37.962993998	-84.5209482935
HLX-6019	H6019	529	ALDERBROOK WAY	37.9645359297	-84.5209787365
HLX-6020	H6020	225	BITTERSWEET WAY	37.96647969	-84.5258221058
HLX-6021	H6021	40	MEADOWCREST PK	37.9653248859	-84.5267123551
HLX-6022	H6022	372	MEADOWCREST PK	37.9658703127	-84.527905007
HLX-6023	H6023	197	BITTERSWEET WAY	37.9669651336	-84.5268137893
HLX-6024	H6024	10	STRAWBERRY FIELDS RD	38.0772763651	-84.4512627709
HLX-6025	H6025	160	STRAWBERRY FIELDS RD	38.0772624346	-84.449365626
HLX-6026	H6026	125	PREAKNESS DR	38.0761437699	-84.4490600793
HLX-6027	H6027	188	PREAKNESS DR	38.0751262009	-84.4475053875
HLX-6028	H6028	2836	SANDERSVILLE RD	38.0954744077	-84.5401131836

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6029	H6029	2872	SANDERSVILLE RD	38.0970154834	-84.5402071761
HLX-6030	H6030	2465	ASTARITA WAY	38.0247510776	-84.4297221279
HLX-6031	H6031	908	PRINCESS DOREEN DR	38.0260517693	-84.4317460116
HLX-6032	H6032	901	STAR GAZE DR	38.0253749876	-84.4328020513
HLX-6033	H6033	908	STAR OF DANUBE WAY	38.0240375427	-84.4317791729
HLX-6034	H6034	2656	MABLE LN	38.0890222674	-84.5400437124
HLX-6035	H6035	2205	SUNNINGDALE DR	38.0155832676	-84.4009508663
HLX-6036	H6036	2225	SUNNINGDALE DR	38.0165520185	-84.4002476336
HLX-6037	H6037	2265	SUNNINGDALE DR	38.0179744911	-84.3991896679
HLX-6038	H6038	2297	SUNNINGDALE DR	38.0191220111	-84.398020684
HLX-6039	H6039	2301	CROSS CREEK TRCE	38.0200561184	-84.39869476
HLX-6040	H6040	941	CHAS DR	37.9665070876	-84.4993628418
HLX-6041	H6041	880	CITATION BLVD	38.0885563031	-84.4964320513
HLX-6042	H6042	503	MCGRATHIANA PKY	38.0900482438	-84.4987319864
HLX-6043	H6043	1526	MCGRATHIANA PKY	38.0918007239	-84.4961784039
HLX-6044	H6044	1776	MCGRATHIANA PKY	38.0935627563	-84.4976062707
HLX-6045	H6045	1777	MCGRATHIANA PKY	38.0956556154	-84.4987765931
HLX-6046	H6046	1701	MCGRATHIANA PKY	38.0975623263	-84.4979944093
HLX-6047	H6047	1679	MCGRATHIANA PKY	38.0983788445	-84.4955228314
HLX-6048	H6048	1648	MCGRATHIANA PKY	38.0961903612	-84.4935711884
HLX-6049	H6049	3725	MOSSBRIDGE WAY	37.9763001344	-84.5454550891
HLX-6050	H6050	3657	MOSSBRIDGE WAY	37.977254743	-84.5448584837
HLX-6051	H6051	3629	MOSSBRIDGE WAY	37.9780320008	-84.5443813921
HLX-6052	H6052	3701	WINTHROP DR	37.976582287	-84.5441289008
HLX-6053	H6053	3681	WINTHROP DR	37.9774152702	-84.5435927638
HLX-6054	H6054	5275	PARIS PIKE	38.1309636863	-84.3731121277
HLX-6055	H6055	2415	WALNUT GROVE LN	38.0187475681	-84.3780947772
HLX-6056	H6056	1270	DEER HAVEN LN	38.0012165981	-84.3942231936
HLX-6057	H6057	1440	DEER HAVEN LN	38.0046650441	-84.3905271813
HLX-6058	H6058	1884	DEER HAVEN LN	38.0070867051	-84.3878139664
HLX-6059	H6059	3801	BRIAR HILL RD	38.0694877697	-84.3792676535
HLX-6060	H6060	380	HORSE MINT TRL	37.9932566446	-84.4122103842
HLX-6061	H6061	3825	HORSE MINT TRL	37.9922325656	-84.4113044835
HLX-6062	H6062	3824	STILL MEADOW LN	37.9918066461	-84.412227109

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6063	H6063	3801	STILL MEADOW LN	37.9928296712	-84.4130840003
HLX-6064	H6064	1588	HILL RISE DR	38.0471888412	-84.530809148
HLX-6065	H6065	1949	SANDERSVILLE RD	38.0862415912	-84.5079552589
HLX-6066	H6066	861	CEDARWOOD DR	38.0855487586	-84.5075900874
HLX-6067	H6067	1993	LOST TRAIL LN	38.0851699773	-84.5098055952
HLX-6068	H6068	856	HIDDEN STREAM DR	38.0846642352	-84.5084211917
HLX-6069	H6069	3563	PARK PIKE	38.1008871773	-84.4173433945
HLX-6070	H6070	3693	PARK PIKE	38.1025195986	-84.4148660997
HLX-6071	H6071	3275	BLAZER PKY	38.0033737602	-84.4388654459
HLX-6072	H6072	231	FOUNTAIN CT	38.004553893	-84.4379164019
HLX-6073	H6073	3816	LADY DI LN	37.9780246812	-84.4956515959
HLX-6074	H6074	3044	TOWN BRANCH RD	38.090063692	-84.561560867
HLX-6075	H6075	108	LONG BRANCH LN	38.0914103484	-84.5611856506
HLX-6076	H6076	3397	DRAYTON PL	37.994172154	-84.544868005
HLX-6077	H6077	564	WELLINGTON GARDENS DR	37.9942583752	-84.5430878738
HLX-6078	H6078	508	WELLINGTON GARDENS DR	37.9944501177	-84.5408282515
HLX-6079	H6079	3173	KEITHSHIRE WAY	37.9943251677	-84.5393725882
HLX-6080	H6080	3253	KEITHSHIRE WAY	37.9934880983	-84.542919375
HLX-6081	H6081	220	GUILFORD LN	38.027571463	-84.5716953025
HLX-6082	H6082	2225	GUILFORD LN	38.0256990761	-84.5720257244
HLX-6083	H6083	2889	SANDERSVILLE RD	38.0979444564	-84.5399519602
HLX-6084	H6084	524	GREEN VALLEY DR	38.0970116864	-84.5388338838
HLX-6085	H6085	545	GREEN VALLEY DR	38.0979985674	-84.5382603777
HLX-6086	H6086	228	SPRINTERS TRL	38.0786192612	-84.5516475895
HLX-6087	H6087	2644	TRAILWOOD LN	38.0787169897	-84.5498467764
HLX-6088	H6088	551	DELONG RD	37.9772896808	-84.4360843453
HLX-6089	H6089	770	DELONG RD	37.9765657336	-84.4422230286
HLX-6090	H6090	950	DELONG RD	37.9722544372	-84.4457355968
HLX-6091	H6091	1402	DELONG RD	37.9668315632	-84.448087167
HLX-6092	H6092	2050	DELONG RD	37.9575944165	-84.4526002689
HLX-6093	H6093	2436	FRANKS WAY	38.0259819282	-84.4293025806
HLX-6094	H6094	2472	FRANKS WAY	38.0242087966	-84.4283595211
HLX-6095	H6095	945	VILLAGE GREEN AVE	38.0230285188	-84.4284077265
HLX-6096	H6096	3073	CADDIS LN	38.0902792483	-84.5632502962

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HLX-6097	H6097	1896	SANDERSVILLE RD	38.0871615111	-84.5058810516
HLX-6098	H6098	1913	LOST TRAIL LN	38.086161426	-84.5063268181
HLX-6099	H6099	1873	LOST TRAIL LN	38.0867603264	-84.5046419532
HLX-6100	H6100	2404	ENGLISH STATION DR	37.991654898	-84.583550787
HLX-6101	H6101	2388	ENGLISH STATION DR	37.9914325195	-84.5826928888
HLX-6103	H6103	2216	TERRANOVA CT	38.0254623411	-84.5736871298
HLX-6104	H6104	2261	GUILFORD LN	38.0240152184	-84.573327483
HLX-6105	H6105	565	SKYVIEW LN	38.0978503236	-84.5375018179
HLX-6106	H6106	665	KENOVA TRCE	38.0964179339	-84.5361915226
HLX-6107	H6107	585	HOPEWELL PK	38.0967201107	-84.5379464471
HLX-6108	H6108	573	CANE RUN RD	38.0757163884	-84.4728229656
HLX-6109	H6109	584	DOVER RD	38.0769283709	-84.4722238378
HLX-6110	H6110	2288	VALENCIA DR	38.0090122848	-84.5753981932
HLX-6111	H6111	3519	CAVE HILL PL	38.0112633657	-84.5734718494
HLX-6112	H6112	3550	CAVE HILL PL	38.0099720282	-84.5742631287
HLX-6113	H6113	2232	CAROLINA LN	38.0283667772	-84.5708819661
HLX-6114	H6114	2188	CAROLINA LN	38.030043297	-84.571383818
HLX-6115	H6115	2137	ROSWELL DR	38.0295899966	-84.5700542548
HLX-6116	H6116	2132	CAROLINA LN	38.030835899	-84.5691928737
HLX-6117	H6117	764	STATESMAN WAY	38.0410670792	-84.464424846
HLX-6118	H6118	413	ST JOHN CT	38.0743458943	-84.4753288619
HLX-6119	H6119	120	E NEW CIRCLE RD	38.0319987063	-84.4531660117
HLX-6120	H6120	2407	MACKINWOOD DR	38.0657652261	-84.5551364332
HLX-6121	H6121	2433	MACKINWOOD DR	38.0653563564	-84.5570279043
HLX-6122	H6122	2448	MACKINWOOD DR	38.0662437159	-84.5575231024
HLX-6123	H6123	553	HOPEWELL PK	38.0956731345	-84.5384962906
HLX-6124	H6124	5088	MIDDLETON PL	37.9455427527	-84.4848728069
HLX-6125	H6125	5072	MAGNOLIA GARDENS PL	37.9444723633	-84.4868595668
HLX-6126	H6126	5036	MAGNOLIA GARDENS PL	37.9454893976	-84.4879296894
HLX-6127	H6127	500	GREENVILLE TER	37.9446471963	-84.4884135319
HLX-6128	H6128	5024	GREENVILLE TER	37.9437913468	-84.4874570444
HLX-6129	H6129	101	WHITE OAK TRCE	38.0873610375	-84.5556594647
HLX-6130	H6130	136	WHITE OAK TRCE	38.0860021933	-84.5565774693
HLX-6131	H6131	140	BLACK WATER LN	38.0851805415	-84.5563934826

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6132	H6132	201	BLACK WATER LN	38.0837469177	-84.557743611
HLX-6133	H6133	253	WHITE OAK TRCE	38.0829235401	-84.5593491384
HLX-6134	H6134	201	WHITE OAK TRCE	38.0842936853	-84.558462353
HLX-6135	H6135	176	WHITE OAK TRCE	38.0848645115	-84.5578822785
HLX-6136	H6136	0	W REYNOLDS RD	37.9955930108	-84.5377961347
HLX-6137	H6137	837	HENDERSON DR	37.9541225712	-84.5058914577
HLX-6138	H6138	4712	POMPANO LN	37.9536013196	-84.5074536576
HLX-6139	H6139	893	HENDERSON DR	37.9524083488	-84.506834704
HLX-6140	H6140	4701	BOCA LN	37.9537829968	-84.5085849303
HLX-6141	H6141	820	LAUDERDALE DR	37.95432198	-84.5071481531
HLX-6142	H6142	893	LAUDERDALE DR	37.9538168414	-84.510505682
HLX-6143	H6143	941	LAUDERDALE DR	37.9541783837	-84.51264
HLX-6144	H6144	464	SOUTHPOINT DR	37.9594508088	-84.5172594696
HLX-6145	H6145	501	SOUTHPOINT DR	37.9599471289	-84.515536783
HLX-6146	H6146	537	SOUTHPOINT DR	37.9594450441	-84.51385797
HLX-6147	H6147	569	SOUTHPOINT DR	37.958425146	-84.5127546466
HLX-6148	H6148	597	SOUTHPOINT DR	37.957038109	-84.5114157158
HLX-6149	H6149	601	TOWNSEND RDG	37.9751983872	-84.5437421141
HLX-6150	H6150	532	NEWBURY WAY	37.9749011292	-84.5424345156
HLX-6151	H6151	501	NEWBURY WAY	37.9749200071	-84.5409176572
HLX-6153	H6153	521	WHITFIELD DR	37.9606699616	-84.5171040656
HLX-6154	H6154	2890	RICHMOND RD	38.0070344316	-84.4523993283
HLX-6155	H6155	536	MILLPOND RD	37.976373807	-84.5419965851
HLX-6156	H6156	460	NEWBURY WAY	37.9746371754	-84.5397312603
HLX-6157	H6157	427	NEWBURY WAY	37.9753933483	-84.5388787322
HLX-6158	H6158	937	JOUETT CREEK DR	37.9926963029	-84.3995924168
HLX-6159	H6159	4141	BOONE CREEK RD	37.9948357944	-84.3998163956
HLX-6160	H6160	4109	BOONE CREEK RD	37.9945992421	-84.3984473505
HLX-6161	H6161	109	BRYCE PT	37.9952772155	-84.398594075
HLX-6162	H6162	2933	CADENTOWN RD	38.0114072616	-84.4258733087
HLX-6163	H6163	699	COFFEE TREE LN	38.0678897817	-84.5019991905
HLX-6164	H6164	681	COFFEE TREE LN	38.0669500551	-84.501960986
HLX-6165	H6165	553	DOUGLAS AVE	38.0669806042	-84.5006751115
HLX-6166	H6166	572	GLEN ARVIN AVE	38.0653818903	-84.4994034061

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6167	H6167	532	GLEN ARVIN AVE	38.0659550828	-84.5016136192
HLX-6168	H6168	505	GLEN ARVIN AVE	38.0657734458	-84.5027848544
HLX-6169	H6169	260	PREAKNESS DR	38.0734422182	-84.4465895686
HLX-6170	H6170	0	SIR BARTON WAY	38.0263730484	-84.4221719353
HLX-6171	H6171	0	SIR BARTON WAY	38.0271747194	-84.4217297207
HLX-6172	H6172	270	OLD ROSEBUD RD	38.0283045296	-84.4211019592
HLX-6173	H6173	2416	SIR BARTON WAY	38.0292757424	-84.4205980645
HLX-6174	H6174	577	DOUGLAS AVE	38.0663844563	-84.4993671528
HLX-6175	H6175	440	SOUTHPOINT DR	37.9579201419	-84.5182503033
HLX-6176	H6176	417	SOUTHPOINT DR	37.9574848799	-84.5195168937
HLX-6177	H6177	392	SOUTHPOINT DR	37.9578065628	-84.5208500807
HLX-6178	H6178	3617	WALDEN DR	37.9806284326	-84.4982680622
HLX-6179	H6179	3609	WALDEN DR	37.9821791525	-84.496802486
HLX-6180	H6180	2012	CAVE HILL LN	38.008252855	-84.5639607495
HLX-6181	H6181	1351	NEWTOWN PIKE	38.082489536	-84.4915385704
HLX-6182	H6182	1825	IDLE BROOK WAY	38.0874897424	-84.5096734836
HLX-6183	H6183	2633	CORONADO RDG	38.0769382171	-84.5511827132
HLX-6184	H6184	257	SPRINTERS TRL	38.0782717047	-84.5527539268
HLX-6185	H6185	4525	LARGO LN	37.9570504156	-84.5176772302
HLX-6186	H6186	4433	LARGO LN	37.9586010253	-84.5188320532
HLX-6187	H6187	100	EXPORT ST	38.036582893	-84.5143106105
HLX-6188	H6188	270	MILL WOOD CV	38.0986662971	-84.5384622552
HLX-6189	H6189	596	GREEN VALLEY DR	38.0997012312	-84.5376253982
HLX-6190	H6190	628	GREEN VALLEY DR	38.1006009761	-84.5372144414
HLX-6191	H6191	2944	POLO CLUB BLVD	38.0233606914	-84.4052817682
HLX-6192	H6192	2304	MARKET GARDEN LN	38.0230317719	-84.4061326731
HLX-6193	H6193	2269	MARKET GARDEN LN	38.0227153426	-84.4076264187
HLX-6194	H6194	2228	MARKET GARDEN LN	38.0217461389	-84.4079728576
HLX-6195	H6195	2177	MARKET GARDEN LN	38.0203803904	-84.4080325668
HLX-6196	H6196	3016	ADWALTON RD	38.0194133186	-84.407238015
HLX-6197	H6197	2117	MARKET GARDEN LN	38.0188951158	-84.407558259
HLX-6198	H6198	408	LEWIS HARGETT CIR	37.9957308372	-84.5338163051
HLX-6199	H6199	444	LEWIS HARGETT CIR	37.9959211097	-84.5349521071
HLX-6200	H6200	259	S YARNALLTON PIKE	38.106879624	-84.5855823549

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6202	H6202	5301	GREENWICH PIKE	38.1512713835	-84.4031634294
HLX-6203	H6203	120	HARP INNIS RD	38.1478653167	-84.3924971993
HLX-6204	H6204	924	HARP INNIS RD	38.1459294572	-84.3862661872
HLX-6205	H6205	501	HARP INNIS RD	38.1438341961	-84.379776974
HLX-6206	H6206	371	HARP INNIS RD	38.1448719773	-84.3751095129
HLX-6207	H6207	1881	PLAUDIT PL	38.0178624311	-84.4171404624
HLX-6208	H6208	1868	PLAUDIT PL	38.0168561764	-84.4179338617
HLX-6209	H6209	1848	PLAUDIT PL	38.0159963355	-84.4185153393
HLX-6210	H6210	1844	PLAUDIT PL	38.0150312342	-84.4188349339
HLX-6211	H6211	2748	WIGGINGTON PT	38.1017831038	-84.5389467571
HLX-6212	H6212	2816	MAJESTIC VIEW WALK	38.1010303414	-84.5406956539
HLX-6213	H6213	2812	BELLE HAVEN PL	38.1018513329	-84.5411624661
HLX-6214	H6214	3144	MAJESTIC VIEW WALK	38.1022826256	-84.540099743
HLX-6216	H6216	3195	RIO DOSA DR	38.005070308	-84.4413069096
HLX-6217	H6217	3449	SPRINGLAKE DR	37.9901315334	-84.4929801976
HLX-6218	H6218	380	NICHOLASVILLE RD	37.9822708873	-84.527334319
HLX-6219	H6219	876	GOLDEN BELL PL	37.9469469623	-84.4915218725
HLX-6220	H6220	3701	NICHOLASVILLE RD	37.983976295	-84.5267684441
HLX-6221	H6221	250	HARRODSBURG RD	38.0171385099	-84.5483036504
HLX-6222	H6222	2424	HARRODSBURG RD	38.0182178193	-84.5467052969
HLX-6223	H6223	2405	HARRODSBURG RD	38.0192131823	-84.5456821643
HLX-6224	H6224	660	DANBY WOODS DR	38.0199416249	-84.4408447237
HLX-6225	H6225	3806	REAL QUIET LN	38.0115552799	-84.3853268602
HLX-6226	H6226	3844	REAL QUIET LN	38.0101684074	-84.3831475177
HLX-6227	H6227	2156	WINNING COLORS LN	38.0120108916	-84.3825958631
HLX-6228	H6228	1792	ALYSHEBA WAY	38.0160386201	-84.4221856984
HLX-6229	H6229	2688	PINK PIGEON PKY	38.0197141307	-84.4245096463
HLX-6230	H6230	50	MILLPOND RD	37.9760499393	-84.5403861843
HLX-6231	H6231	521	TOWNSEND RDG	37.9756098152	-84.5413741424
HLX-6233	H6233	553	TOWNSEND RDG	37.9757314038	-84.5426320803
HLX-6234	H6234	1749	COURTNEY AVE	38.0336835629	-84.4612946583
HLX-6235	H6235	1801	COURTNEY AVE	38.032861632	-84.4621294222
HLX-6236	H6236	3384	KEARNEY RD	38.1194799039	-84.5335484419
HLX-6237	H6237	3951	KEARNEY RD	38.1282196719	-84.5522762342

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6238	H6238	4116	KEARNEY RD	38.1305028298	-84.5554309504
HLX-6239	H6239	4424	KEARNEY RD	38.1368310401	-84.5629092374
HLX-6240	H6240	952	HAMMOCK OAK LN	37.9615718514	-84.5005143265
HLX-6241	H6241	916	HAMMOCK OAK LN	37.9609494736	-84.5023510319
HLX-6242	H6242	885	FIDDLER CREEK WAY	37.9600780459	-84.5030793374
HLX-6243	H6243	921	FIDDLER CREEK WAY	37.9617007993	-84.5032897893
HLX-6244	H6244	945	FIDDLER CREEK WAY	37.9627394437	-84.5029206051
HLX-6245	H6245	912	TEA OLIVE WAY	37.9458691267	-84.4924317545
HLX-6246	H6246	3120	ROUNDWAY DOWN LN	38.021576417	-84.405279809
HLX-6247	H6247	3068	ROUNDWAY DOWN LN	38.0202580478	-84.4058400999
HLX-6248	H6248	3041	HOUSE RD	38.0213902278	-84.4066471365
HLX-6249	H6249	3044	SEWANEE LN	38.0221384246	-84.4063197643
HLX-6250	H6250	2205	JAGGIE FOX WAY	38.0959857335	-84.5178929858
HLX-6251	H6251	2201	JAGGIE FOX WAY	38.0968860191	-84.5180754013
HLX-6252	H6252	136	HAYS BLVD	37.9825332028	-84.4209379708
HLX-6253	H6253	166	HAYS BLVD	37.9828145972	-84.419667187
HLX-6254	H6254	4317	WALNUT CREEK DR	37.982953087	-84.4207698089
HLX-6255	H6255	164	ACORN FALLS DR	37.9836139443	-84.420673682
HLX-6256	H6256	4308	TRADITION WAY	37.9842483258	-84.4194991078
HLX-6257	H6257	4325	TRADITION WAY	37.9837964435	-84.4189299693
HLX-6258	H6258	173	HAYS BLVD	37.9832269001	-84.4195337765
HLX-6259	H6259	2296	REMINGTON WAY	38.0960286873	-84.5083178396
HLX-6260	H6260	1812	STOCKTON WAY	38.0942567326	-84.508664336
HLX-6261	H6261	2288	PRESCOTT LN	38.0948968103	-84.5073948458
HLX-6262	H6262	2376	PRESCOTT LN	38.0942894908	-84.5054637635
HLX-6263	H6263	2445	PRESCOTT LN	38.0929462427	-84.5065446793
HLX-6264	H6264	2220	SONOMA PL	38.0940722673	-84.5067132643
HLX-6265	H6265	2249	PRESCOTT LN	38.0936645152	-84.5077204806
HLX-6266	H6266	3784	POLO CLUB BLVD	37.9973970283	-84.3943669842
HLX-6267	H6267	3744	POLO CLUB BLVD	37.9986751975	-84.3949002053
HLX-6268	H6268	3736	WARGRAVE WALK	37.9982624589	-84.3957033108
HLX-6269	H6269	1133	OATLANDS PK	37.9971500709	-84.3960730439
HLX-6270	H6270	3701	WARGRAVE WALK	37.9991325861	-84.396637026
HLX-6271	H6271	540	WALNUT HILL RD	37.9681650979	-84.4225966462

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6272	H6272	855	WALNUT HILL RD	37.9633593961	-84.4282012918
HLX-6273	H6273	1010	WALNUT HILL RD	37.9597486449	-84.4302969311
HLX-6274	H6274	1101	WALNUT HILL RD	37.9578722637	-84.4313777527
HLX-6275	H6275	3725	RIDGE VIEW WAY	37.9912642247	-84.41603266
HLX-6276	H6276	3740	RIDGE VIEW WAY	37.990944316	-84.4150629062
HLX-6277	H6277	3920	PALOMAR COVE LN	38.0027148293	-84.5759516964
HLX-6278	H6278	420	MEADOWCREST PK	37.9647877158	-84.525675949
HLX-6279	H6279	504	MEADOWCREST PK	37.9641690445	-84.5240922632
HLX-6280	H6280	528	MEADOWCREST PK	37.9637382417	-84.5229176216
HLX-6281	H6281	481	ALDERBROOK WAY	37.9652739871	-84.5235238039
HLX-6282	H6282	50	ALDERBROOK WAY	37.9649829539	-84.5225517162
HLX-6283	H6283	245	BITTERSWEET WAY	37.9659749884	-84.5247693719
HLX-6284	H6284	4032	DAISY HILL LN	37.9707460264	-84.5537836072
HLX-6285	H6285	145	MCCONNELLS TRCE	38.0876105133	-84.559684617
HLX-6286	H6286	4216	MATTEA CT	37.9916865396	-84.5788548987
HLX-6287	H6287	2060	TWAIN RIDGE DR	37.9909166173	-84.5797321197
HLX-6288	H6288	2109	TWAIN RIDGE DR	37.9925436307	-84.580631433
HLX-6289	H6289	4228	DESDEMONA WAY	37.9913552692	-84.5808223798
HLX-6290	H6290	4265	DESDEMONA WAY	37.98984591	-84.5802355302
HLX-6291	H6291	2141	MAURA TRCE	38.0052627308	-84.5741363225
HLX-6292	H6292	381	W LOUDON AVE	38.0634236769	-84.4966459015
HLX-6293	H6293	337	LONG BRANCH LN	38.0873261777	-84.5624508792
HLX-6294	H6294	173	MCCONNELLS TRCE	38.0867792129	-84.5606153021
HLX-6295	H6295	253	LONG BRANCH LN	38.0879320738	-84.5649417871
HLX-6296	H6296	188	BLUE HERON PL	38.0877945707	-84.5640617884
HLX-6297	H6297	309	LONG BRANCH LN	38.0873399204	-84.563298958
HLX-6298	H6298	2445	ASTARITA WAY	38.0260955631	-84.4304031506
HLX-6299	H6299	500	MAGNOLIA GARDENS PL	37.9459160669	-84.4898797154
HLX-6300	H6300	5021	MAGNOLIA GARDENS PL	37.9457000048	-84.4889534185
HLX-6301	H6301	841	CALYPSO BREEZE DR	37.9450539457	-84.4902955644
HLX-6302	H6302	621	GEORGETOWN ST	38.0650193846	-84.5032502742
HLX-6303	H6303	2459	SIR BARTON WAY	38.0316389887	-84.4208256113
HLX-6304	H6304	2499	SIR BARTON WAY	38.0324587031	-84.4212230682
HLX-6305	H6305	2509	SIR BARTON WAY	38.033207268	-84.4214703897

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6306	H6306	2555	SIR BARTON WAY	38.0343253891	-84.4220100894
HLX-6307	H6307	2541	SIR BARTON WAY	38.0348830494	-84.4225926226
HLX-6308	H6308	0	SIR BARTON WAY	38.0354638682	-84.4234743335
HLX-6309	H6309	340	SPRINGLAKE DR	37.9897149088	-84.4942350533
HLX-6310	H6310	1017	LAKEFRONT DR	37.9892899156	-84.4931342901
HLX-6311	H6311	0	RUCCIO WAY	37.9975816659	-84.5292605926
HLX-6312	H6312	247	RUCCIO WAY	37.9970433478	-84.528308435
HLX-6313	H6313	243	RUCCIO WAY	37.996593562	-84.5289282052
HLX-6314	H6314	20	HAYS BLVD	37.9835411832	-84.4184677834
HLX-6315	H6315	4468	WALNUT CREEK DR	37.9837729239	-84.4167915011
HLX-6316	H6316	312	HAYS BLVD	37.9825599445	-84.4148798107
HLX-6317	H6317	336	HAYS BLVD	37.9822775019	-84.4135822185
HLX-6318	H6318	368	HAYS BLVD	37.9828423966	-84.4122283379
HLX-6319	H6319	292	JANE BRIGGS AVE	37.9823550882	-84.4113620278
HLX-6320	H6320	4425	LEVI TODD BLVD	37.9812687508	-84.4123801271
HLX-6321	H6321	257	RICHARDSON PL	37.9806633666	-84.4118822637
HLX-6322	H6322	288	RICHARDSON PL	37.9817357118	-84.4106063326
HLX-6323	H6323	2203	BAHAMA RD	38.0288458023	-84.3849113166
HLX-6324	H6324	2652	MICHELLE PK	38.0865138682	-84.5451439953
HLX-6325	H6325	2577	MICHELLE PK	38.0867604437	-84.5459323487
HLX-6326	H6326	2573	BUCK LN	38.0876070934	-84.5455920363
HLX-6327	H6327	260	BUCK LN	38.0878221507	-84.5464001455
HLX-6328	H6328	272	FERNDALE PASS	38.0871074268	-84.5467171367
HLX-6329	H6329	2629	SHANNON TRCE	38.0875054718	-84.54770004
HLX-6330	H6330	2385	HUGUENARD DR	38.0052773899	-84.5226921804
HLX-6331	H6331	2321	SIR BARTON WAY	38.0208129101	-84.4221374984
HLX-6332	H6332	2321	SIR BARTON WAY	38.0205218438	-84.4225710792
HLX-6333	H6333	1895	VENDOR WAY	38.019979545	-84.4235206578
HLX-6334	H6334	204	STALLION RUN	38.0798103011	-84.5515283966
HLX-6335	H6335	270	SILVER MARE CT	38.079448777	-84.5533424284
HLX-6336	H6336	2805	MICHELLE PK	38.0892719235	-84.5475348048
HLX-6337	H6337	2844	MICHELLE PK	38.0890055944	-84.5485261999
HLX-6338	H6338	225	LUCILLE DR	38.0888004177	-84.5476746447
HLX-6339	H6339	193	LUCILLE DR	38.0882956623	-84.5486231803

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6340	H6340	2644	BUCK LN	38.0882990942	-84.5475948877
HLX-6341	H6341	1209	JEKYLL DR	38.021701518	-84.5668228413
HLX-6342	H6342	3216	HEMINGWAY LN	38.0211997736	-84.568401113
HLX-6343	H6343	3196	HEMINGWAY LN	38.0207669477	-84.567303201
HLX-6344	H6344	3173	HEMINGWAY LN	38.020373465	-84.5660495571
HLX-6345	H6345	3144	HEMINGWAY LN	38.0200897166	-84.5646931298
HLX-6346	H6346	1208	RAEFORD LN	38.0209963133	-84.565287598
HLX-6347	H6347	3132	HEMINGWAY LN	38.0207915169	-84.5643195636
HLX-6348	H6348	2997	HEMINGWAY LN	38.022181535	-84.5638447438
HLX-6349	H6349	2977	HEMINGWAY LN	38.0223872842	-84.5650965821
HLX-6350	H6350	905	CALYPSO BREEZE DR	37.9469188341	-84.4890343531
HLX-6351	H6351	1028	KIAWAH DR	37.9468002219	-84.4875343804
HLX-6352	H6352	1060	KIAWAH DR	37.9479706559	-84.486195357
HLX-6353	H6353	100	FIRETHORN PL	37.94843724	-84.4872580226
HLX-6354	H6354	965	FIRETHORN DR	37.949584094	-84.4865697308
HLX-6355	H6355	1010	MONARCH ST	38.0218618793	-84.5562923224
HLX-6356	H6356	3769	WINTHROP DR	37.9741180451	-84.5456141223
HLX-6357	H6357	3805	WINTHROP DR	37.9731268641	-84.5460166268
HLX-6358	H6358	720	WOODHAVEN PL	37.9733066645	-84.5471989185
HLX-6359	H6359	748	WOODHAVEN PL	37.9735648596	-84.5482467134
HLX-6360	H6360	3813	EVERETTS DALE	37.9739850288	-84.5492969886
HLX-6361	H6361	4549	PARSONS LN	37.9830383011	-84.4084254782
HLX-6362	H6362	436	WELSH PK	37.9848728538	-84.4093889438
HLX-6363	H6363	4520	PARSONS LN	37.9838872516	-84.4088421851
HLX-6364	H6364	450	PARSONS LN	37.9845464351	-84.4082009614
HLX-6365	H6365	4437	RIVARD LN	37.9852236214	-84.4074501136
HLX-6366	H6366	548	VONBRYAN TRCE	37.9851625323	-84.4050065028
HLX-6367	H6367	580	VONBRYAN TRCE	37.9859077046	-84.4041966698
HLX-6368	H6368	637	VONBRYAN TRCE	37.9859649252	-84.4051992544
HLX-6369	H6369	669	VONBRYAN TRCE	37.9853750727	-84.406135616
HLX-6370	H6370	4521	CLOONEY PASS	37.9849984926	-84.4039662987
HLX-6371	H6371	676	STANSBERRY CV	37.9843215273	-84.4044661069
HLX-6372	H6372	1709	BETTYS CT	38.0628350941	-84.4617443351
HLX-6373	H6373	2720	WIGGINGTON PT	38.1014612854	-84.5378778562

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6374	H6374	644	GREEN VALLEY DR	38.1010900834	-84.5367863996
HLX-6375	H6375	3016	SANDERSVILLE RD	38.1029449763	-84.5386441776
HLX-6376	H6376	3040	SANDERSVILLE RD	38.1041067879	-84.5380999126
HLX-6377	H6377	3068	SANDERSVILLE RD	38.1051958212	-84.5375574424
HLX-6378	H6378	310	SANDERSVILLE RD	38.1067997387	-84.5367590495
HLX-6379	H6379	3132	SANDERSVILLE RD	38.1082198084	-84.5360769416
HLX-6380	H6380	2977	PRICHARD DR	38.1062681184	-84.535664826
HLX-6381	H6381	309	GILMORE TRCE	38.1060076016	-84.5347702073
HLX-6382	H6382	3112	GILMORE TRCE	38.1067721991	-84.5345969303
HLX-6383	H6383	3149	GILMORE TRCE	38.1078213178	-84.5351422958
HLX-6384	H6384	129	OCOEE CT	38.090592699	-84.5612215706
HLX-6385	H6385	104	OCOEE CT	38.0904016153	-84.5601073623
HLX-6386	H6386	0	SIR BARTON WAY	38.0236405655	-84.4233041099
HLX-6387	H6387	0	SIR BARTON WAY	38.0218692348	-84.4215792951
HLX-6388	H6388	1075	STAR SHOOT PKY	38.0238549878	-84.4255339755
HLX-6389	H6389	2197	DRUMMOND DR	38.1046906927	-84.5146230113
HLX-6390	H6390	2333	SPURR RD	38.1042092424	-84.5120676025
HLX-6391	H6391	230	SPURR RD	38.1039935667	-84.5107136905
HLX-6392	H6392	2260	SPURR RD	38.1040032891	-84.5091760756
HLX-6393	H6393	2521	LANGSTANE LN	38.1050709314	-84.5091756777
HLX-6394	H6394	2041	DRUMMOND DR	38.1062676109	-84.5086596153
HLX-6395	H6395	250	MORAY PL	38.1061506673	-84.5098847656
HLX-6396	H6396	2108	DRUMMOND DR	38.1057929682	-84.5111635668
HLX-6397	H6397	2149	DRUMMOND DR	38.1053966153	-84.5127069173
HLX-6398	H6398	2180	DRUMMOND DR	38.1050477929	-84.5140306496
HLX-6399	H6399	2501	GLASCOW LN	38.1046774141	-84.5131725779
HLX-6400	H6400	2562	MORAY PL	38.1047518638	-84.5106433901
HLX-6401	H6401	1075	STAR SHOOT PKY	38.0243111317	-84.4255441148
HLX-6402	H6402	2481	OGDEN WAY	38.0251075562	-84.4264265218
HLX-6403	H6403	2438	OGDEN WAY	38.026798107	-84.4276801306
HLX-6404	H6404	2433	ROCKMINSTER RD	38.0264217303	-84.4284991346
HLX-6405	H6405	976	STAR GAZE DR	38.0248569119	-84.4278050953
HLX-6406	H6406	985	VILLAGE GREEN AVE	38.0243992125	-84.4269191606
HLX-6407	H6407	970	VILLAGE GREEN AVE	38.0236939785	-84.4276195635

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6408	H6408	196	MCCONNELLS TRCE	38.0859338688	-84.56132901
HLX-6409	H6409	245	MCCONNELLS TRCE	38.084454572	-84.5625368138
HLX-6410	H6410	445	MCCONNELLS TRCE	38.0862535177	-84.5628064548
HLX-6411	H6411	392	MCCONNELLS TRCE	38.0863280074	-84.5646756773
HLX-6412	H6412	304	TRAILWOOD LN	38.0854991459	-84.5622223073
HLX-6413	H6413	3052	TRAILWOOD LN	38.0855633479	-84.5635173636
HLX-6414	H6414	3052	NEW RIVER PL	38.0848611403	-84.5641506848
HLX-6415	H6415	2551	SUN SEEKER CT	38.0068795546	-84.5269055324
HLX-6416	H6416	2529	SUN SEEKER CT	38.0077486346	-84.5266497282
HLX-6417	H6417	2321	CROSS CREEK TRCE	38.0204158837	-84.3973553405
HLX-6418	H6418	3172	CHERRY MEADOW PATH	38.021127824	-84.3967326732
HLX-6419	H6419	3204	CHERRY MEADOW PATH	38.0201935903	-84.3959390979
HLX-6420	H6420	3173	SCOTTISH TRCE	38.023517728	-84.4000050786
HLX-6421	H6421	3205	SCOTTISH TRCE	38.0224248082	-84.4000628187
HLX-6422	H6422	3261	SCOTTISH TRCE	38.0215039271	-84.3987333678
HLX-6423	H6423	3061	MANY OAKS PK	38.0230750594	-84.3987982504
HLX-6424	H6424	3309	SCOTTISH TRCE	38.0222274379	-84.3975773366
HLX-6425	H6425	3128	TIMBERNECK CV	38.0237755539	-84.3973298077
HLX-6426	H6426	3349	SCOTTISH TRCE	38.0231942306	-84.3965114056
HLX-6427	H6427	348	OUTRIDER WAY	37.9769108576	-84.5398592972
HLX-6428	H6428	360	LOCHDALE TER	37.9768731758	-84.5384704254
HLX-6429	H6429	3056	PRICHARD DR	38.1067843187	-84.5397328611
HLX-6430	H6430	801	WINDING OAK TRL	38.1069681999	-84.5385639454
HLX-6431	H6431	816	WINDING OAK TRL	38.1076182989	-84.5384716723
HLX-6432	H6432	801	WHITE WOOD FLAT	38.1070858406	-84.5376074472
HLX-6433	H6433	833	WHITE WOOD FLAT	38.1080779469	-84.5371165538
HLX-6434	H6434	2045	GLADE LN	38.0036049385	-84.5754879968
HLX-6435	H6435	4913	BRIAR HILL RD	38.0677754083	-84.3432307379
HLX-6436	H6436	4978	BRIAR HILL RD	38.0682516466	-84.3394003422
HLX-6437	H6437	5167	BRIAR HILL RD	38.0687054764	-84.3367678095
HLX-6438	H6438	5187	BRIAR HILL RD	38.0690528676	-84.3340129657
HLX-6439	H6439	797	WYNDHAM HILLS DR	37.9725831532	-84.5499660951
HLX-6440	H6440	753	WYNDHAM HILLS DR	37.9720114614	-84.5486853976
HLX-6441	H6441	740	WYNDHAM HILLS DR	37.9717500947	-84.5474139706

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6443	H6443	3825	WINTHROP DR	37.9723839796	-84.545910446
HLX-6444	H6444	724	ROSSLYNS DALE	37.9725636282	-84.5472754953
HLX-6445	H6445	756	ROSSLYNS DALE	37.9728913635	-84.5484450524
HLX-6446	H6446	3837	EVERETTS DALE	37.9732337551	-84.5496727853
HLX-6447	H6447	3637	WINTHROP DR	37.9788072358	-84.5429251485
HLX-6448	H6448	3765	RIDGE VIEW WAY	37.9900892112	-84.4141074248
HLX-6449	H6449	3796	RIDGE VIEW WAY	37.9889055705	-84.4129298889
HLX-6450	H6450	3076	PRICHARD DR	38.1067017558	-84.5404724243
HLX-6451	H6451	3029	SHADY KNOLL REST	38.1073688772	-84.5400462007
HLX-6452	H6452	3020	RIVER RUN TRL	38.1079135384	-84.5392295459
HLX-6453	H6453	3016	MADDIE LN	38.1085869156	-84.5388628455
HLX-6454	H6454	856	WINDING OAK TRL	38.1088132296	-84.5379407527
HLX-6455	H6455	897	WINDING OAK TRL	38.1092774398	-84.5384444363
HLX-6456	H6456	2280	MAGGARD DR	38.0874680625	-84.5161390351
HLX-6457	H6457	2285	MAGGARD DR	38.0877693869	-84.5154105355
HLX-6458	H6458	921	VILLAGE GREEN AVE	38.0223043903	-84.4292265984
HLX-6459	H6459	2565	FLYING EBONY DR	38.0214508713	-84.4301423311
HLX-6460	H6460	927	STAR SHOOT PKY	38.0214901678	-84.4281011971
HLX-6463	H6463	353	HAYS BLVD	37.9826619667	-84.4131827943
HLX-6464	H6464	232	JANE BRIGGS AVE	37.9799445437	-84.4134872513
HLX-6465	H6465	233	RICHARDSON PL	37.9794889289	-84.4126080998
HLX-6466	H6466	109	TOWNE CENTER DR	38.0687158195	-84.5287639967
HLX-6467	H6467	109	LOUIE PL	38.0676432288	-84.5271207212
HLX-6468	H6468	1745	SHARKEY WAY	38.0679132751	-84.5289115531
HLX-6469	H6469	1752	SHARKEY WAY	38.0683617314	-84.5295956768
HLX-6470	H6470	1768	SHARKEY WAY	38.0687699535	-84.5304600717
HLX-6471	H6471	128	TOWNE WALK	38.0681466331	-84.5318645625
HLX-6472	H6472	137	TOWNE CENTER DR	38.0670453183	-84.5307343731
HLX-6473	H6473	158	LOUIE PL	38.0661628039	-84.5291514617
HLX-6474	H6474	170	SHARKEY WAY	38.067213043	-84.5277205415
HLX-6475	H6475	4432	WALNUT CREEK DR	37.9826012231	-84.4177804671
HLX-6476	H6476	4388	WALNUT CREEK DR	37.9816448601	-84.4191961671
HLX-6477	H6477	333	HUMMINGBIRD LN	38.0301904604	-84.520687571
HLX-6478	H6478	1559	JACANA DR	38.0290929707	-84.5196557346

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6479	H6479	337	MOCKINGBIRD LN	38.0297953931	-84.5217816876
HLX-6480	H6480	1581	JACANA DR	38.0284807523	-84.5205884248
HLX-6481	H6481	1574	BLUEBIRD LN	38.0267009481	-84.5184810544
HLX-6482	H6482	478	BOB-O-LINK DR	38.0288547429	-84.5226683957
HLX-6483	H6483	378	BOB-O-LINK DR	38.0265367076	-84.5205349912
HLX-6484	H6484	354	BOB-O-LINK DR	38.0253218313	-84.5194045055
HLX-6485	H6485	717	ALLENRIDGE PT	38.0644938972	-84.5584558717
HLX-6486	H6486	2433	FLYING EBONY DR	38.0265043974	-84.4326690144
HLX-6487	H6487	2421	FLYING EBONY DR	38.0270449532	-84.4325879567
HLX-6488	H6488	240	HEALY LN	38.027335966	-84.4317915248
HLX-6489	H6489	2421	ASTARITA WAY	38.0273574853	-84.4307750208
HLX-6490	H6490	2364	ROCKMINSTER RD	38.0276974582	-84.430365566
HLX-6491	H6491	2421	FRANKS WAY	38.0268451526	-84.4296803563
HLX-6492	H6492	2389	ROCKMINSTER RD	38.0279628755	-84.4293141814
HLX-6493	H6493	2417	ROCKMINSTER RD	38.0272550215	-84.4288866651
HLX-6494	H6494	2421	OGDEN WAY	38.0277056559	-84.4279565162
HLX-6495	H6495	2405	OGDEN WAY	38.0283694654	-84.4281761282
HLX-6496	H6496	3673	POLO CLUB BLVD	38.001991717	-84.3968867891
HLX-6497	H6497	3645	POLO CLUB BLVD	38.0030412691	-84.3975077217
HLX-6498	H6498	120	BRICK HOUSE LN	38.0016871399	-84.3962682712
HLX-6499	H6499	3680	STOLEN HORSE TRCE	38.0022233216	-84.3952747587
HLX-6500	H6500	3682	STOLEN HORSE TRCE	38.0027333355	-84.394546702
HLX-6501	H6501	3732	STOLEN HORSE TRCE	38.003768466	-84.3937525383
HLX-6502	H6502	1240	ANGUS TRL	38.0041223398	-84.3945810878
HLX-6503	H6503	1221	ANGUS TRL	38.0035095568	-84.395210805
HLX-6504	H6504	1217	SILO LN	38.0041694127	-84.3959872279
HLX-6505	H6505	3608	STOLEN HORSE TRCE	38.0044199374	-84.3968500031
HLX-6506	H6506	3633	STOLEN HORSE TRCE	38.0036524429	-84.3966666884
HLX-6507	H6507	3660	STOLEN HORSE TRCE	38.0026481146	-84.3961334071
HLX-6508	H6508	217	ELM TREE LN	38.0460550437	-84.4895690761
HLX-6509	H6509	2618	LONGLEAF PL	38.0055944601	-84.5273717033
HLX-6510	H6510	2025	LEESTOWN RD	38.0722676516	-84.5337618897
HLX-6511	H6511	2709	RED CLOVER LN	38.102288755	-84.525936023
HLX-6512	H6512	2756	RED CLOVER LN	38.1027260318	-84.5274071391

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 181 of 209
HLX-6513	H6513	2784	RED CLOVER LN	38.1029564865	-84.5286124976
HLX-6514	H6514	2820	RED CLOVER LN	38.1034848842	-84.5297779225
HLX-6515	H6515	2753	GOLDEN ROD LN	38.1038104005	-84.5283941477
HLX-6516	H6516	2733	GOLDEN ROD LN	38.103753836	-84.527475747
HLX-6517	H6517	2701	GOLDEN ROD LN	38.1040213244	-84.5261484628
HLX-6518	H6518	1092	MOUNTAIN LAUREL WAY	38.1046744615	-84.5265201893
HLX-6519	H6519	1129	MOUNTAIN LAUREL WAY	38.104350958	-84.5276448728
HLX-6520	H6520	1149	MOUNTAIN LAUREL WAY	38.1045235912	-84.5286859035
HLX-6521	H6521	1157	MOUNTAIN LAUREL WAY	38.1044924316	-84.529263655
HLX-6522	H6522	1457	DAY LILY DR	38.10515076	-84.5289326976
HLX-6523	H6523	1485	DAY LILY DR	38.1060992972	-84.5284759223
HLX-6524	H6524	1073	LUCILLE DR	38.1051874873	-84.5277712559
HLX-6525	H6525	2811	SPURR RD	38.1060516805	-84.5276084255
HLX-6526	H6526	1032	MOUNTAIN LAUREL WAY	38.1032845012	-84.5256868312
HLX-6527	H6527	800	FAITH ST	38.0653608383	-84.4834211276
HLX-6528	H6528	2708	ROSEBUD RD	38.0279179739	-84.4197673779
HLX-6529	H6529	2720	ROSEBUD RD	38.0270021138	-84.4188973892
HLX-6530	H6530	2488	EASTWAY DR	38.0088491598	-84.5270901299
HLX-6531	H6531	2504	EASTWAY DR	38.0078472569	-84.5276017861
HLX-6532	H6532	1750	SUMMERHILL DR	37.9679633387	-84.4595765539
HLX-6533	H6533	3412	SQUIRE OAK DR	37.9662980868	-84.4593673327
HLX-6534	H6534	3112	PRICHARD DR	38.1071049177	-84.5417751342
HLX-6535	H6535	1089	WINDING OAK TRL	38.1069303496	-84.5426172509
HLX-6536	H6536	1052	WINDING OAK TRL	38.1079577102	-84.5420949982
HLX-6537	H6537	3061	SHADY KNOLL REST	38.107721138	-84.5411502904
HLX-6538	H6538	3064	RIVER RUN TRL	38.1083847414	-84.540760002
HLX-6539	H6539	1016	WINDING OAK TRL	38.1089423314	-84.5415962365
HLX-6540	H6540	3064	MADDIE LN	38.1090794031	-84.5404169677
HLX-6541	H6541	977	WINDING OAK TRL	38.1100242316	-84.5410648336
HLX-6542	H6542	933	WINDING OAK TRL	38.1098001993	-84.5402157658
HLX-6543	H6543	3861	WINTHROP DR	37.9707994935	-84.5456421857
HLX-6544	H6544	3897	WINTHROP DR	37.9697986585	-84.5454541333
HLX-6545	H6545	3929	WINTHROP DR	37.9688235098	-84.5452541593
HLX-6547	H6547	212	EASTIN RD	38.0659615689	-84.4575435694

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6548	H6548	311	SIERRA DR	38.0665199402	-84.454986135
HLX-6549	H6549	3128	MAJESTIC VIEW WALK	38.1030457953	-84.5397330731
HLX-6550	H6550	3105	MAJESTIC VIEW WALK	38.1040153527	-84.5392608611
HLX-6551	H6551	3085	MAJESTIC VIEW WALK	38.1049428188	-84.5387929943
HLX-6552	H6552	3044	MAJESTIC VIEW WALK	38.1055325705	-84.5395854979
HLX-6553	H6553	2989	MAJESTIC VIEW WALK	38.1051885426	-84.5420728431
HLX-6554	H6554	2972	MAJESTIC VIEW WALK	38.1049251393	-84.5432735115
HLX-6555	H6555	2936	MAJESTIC VIEW WALK	38.1037626621	-84.5443668196
HLX-6556	H6556	2889	MAJESTIC VIEW WALK	38.1021877385	-84.5446403449
HLX-6557	H6557	2865	MAJESTIC VIEW WALK	38.1018065587	-84.5433901775
HLX-6558	H6558	2845	MAJESTIC VIEW WALK	38.1014832418	-84.54231926
HLX-6559	H6559	2840	BELLE HAVEN PL	38.1022227722	-84.5426675377
HLX-6560	H6560	2872	BELLE HAVEN PL	38.1028012942	-84.5445333396
HLX-6561	H6561	2848	JENNA REST	38.1030535605	-84.5425680708
HLX-6562	H6562	2824	JENNA REST	38.1026810722	-84.5412532085
HLX-6563	H6563	701	CORBIN WALK	38.1035664414	-84.5434333272
HLX-6564	H6564	2865	BAY COLONY LN	38.1044539204	-84.5418771262
HLX-6565	H6565	2840	BAY COLONY LN	38.1035385888	-84.5411372881
HLX-6566	H6566	2828	SATIN LEAF PK	38.1042867604	-84.5407303082
HLX-6567	H6567	2848	SATIN LEAF PK	38.1051805353	-84.5410542578
HLX-6568	H6568	4628	MARCUS TRL	37.9828748768	-84.4036183012
HLX-6569	H6569	4593	WILLMAN WAY	37.9831133227	-84.4024244743
HLX-6570	H6570	612	STANSBERRY CV	37.984084318	-84.4030732089
HLX-6571	H6571	712	STANSBERRY CV	37.9835944866	-84.4034225996
HLX-6572	H6572	4524	PEBBLE BROOK CIR	37.9836612343	-84.4050325127
HLX-6573	H6573	1135	MONARCH ST	38.0189000952	-84.5573484915
HLX-6574	H6574	1121	MONARCH ST	38.0191842877	-84.5560554385
HLX-6575	H6575	1121	MONARCH ST	38.0195956028	-84.5553995147
HLX-6576	H6576	4601	MARCUS TRL	37.9830830467	-84.4049676247
HLX-6577	H6577	4476	MARCUS TRL	37.9835937665	-84.4058588307
HLX-6578	H6578	4437	MARCUS TRL	37.9842681536	-84.4071315539
HLX-6579	H6579	489	LANARKSHIRE PL	37.9835758149	-84.4070414547
HLX-6580	H6580	521	LANARKSHIRE PL	37.983193969	-84.4061923464
HLX-6581	H6581	552	LANARKSHIRE PL	37.9823929796	-84.4054647595

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6582	H6582	4520	LARKHILL LN	37.9815809407	-84.4065489991
HLX-6583	H6583	411	LANARKSHIRE PL	37.9821337719	-84.407319962
HLX-6584	H6584	445	LANARKSHIRE PL	37.9826923462	-84.4068584175
HLX-6585	H6585	4569	PARSONS LN	37.9830507457	-84.4075708624
HLX-6586	H6586	361	SCOTTSDALE CIR	38.0766721146	-84.4792012458
HLX-6587	H6587	385	SCOTTSDALE CIR	38.0760138719	-84.4782786975
HLX-6588	H6588	1504	RODNEY PL	38.0753966849	-84.477597223
HLX-6589	H6589	109	LEMON RUE WAY	37.9669474824	-84.4991116018
HLX-6590	H6590	1025	LEMON RUE WAY	37.9672336495	-84.4985206209
HLX-6591	H6591	2365	MULUNDY WAY	38.0961273392	-84.5268115327
HLX-6592	H6592	2328	MULUNDY WAY	38.0963174592	-84.5253689884
HLX-6593	H6593	916	APPLECROSS DR	38.0965320257	-84.5240612165
HLX-6594	H6594	953	APPLECROSS DR	38.0974884108	-84.5243625231
HLX-6595	H6595	2320	LONAN CT	38.0970767097	-84.5254070805
HLX-6596	H6596	2348	LONAN CT	38.0969180041	-84.5265212727
HLX-6597	H6597	2399	PARIS PIKE	38.0813004998	-84.4467919877
HLX-6598	H6598	102	SWIGERT AVE	38.0851553907	-84.4413412603
HLX-6599	H6599	3011	PARIS PIKE	38.0925372563	-84.4298811693
HLX-6600	H6600	3153	PARIS PIKE	38.0945247591	-84.4268570133
HLX-6601	H6601	103	HUGHES LN	38.1231477312	-84.3847408379
HLX-6602	H6602	4393	JASMINE ROSE WAY	37.9665491359	-84.4979979846
HLX-6603	H6603	4360	JASMINE ROSE WAY	37.9670048884	-84.4968452485
HLX-6604	H6604	4296	JASMINE ROSE WAY	37.9688347083	-84.4978826508
HLX-6605	H6605	4248	JASMINE ROSE WAY	37.968578522	-84.4995024615
HLX-6606	H6606	4237	JASMINE ROSE WAY	37.9679479306	-84.499634574
HLX-6607	H6607	1028	BELLA DONA RD	37.9679961166	-84.4984247572
HLX-6608	H6608	1052	BELLA DONA RD	37.9681706104	-84.4975236894
HLX-6609	H6609	1060	LEMON RUE WAY	37.9674670862	-84.4973432394
HLX-6610	H6610	4512	WINDSTAR WAY	37.9562533121	-84.5126323715
HLX-6611	H6611	4540	WINDSTAR WAY	37.9554773226	-84.5131372661
HLX-6612	H6612	4564	WINDSTAR WAY	37.9557634863	-84.5143607221
HLX-6613	H6613	4584	WINDSTAR WAY	37.9561276617	-84.5152750435
HLX-6614	H6614	4608	WINDSTAR WAY	37.9568050542	-84.5159887838
HLX-6615	H6615	4628	WINDSTAR WAY	37.9576497425	-84.5164446905

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6616	H6616	4652	WINDSTAR WAY	37.9585234507	-84.5168182683
HLX-6617	H6617	4688	WINDSTAR WAY	37.9590914116	-84.5154377105
HLX-6618	H6618	608	DELTINO CT	37.958480283	-84.5152309273
HLX-6619	H6619	4712	WINDSTAR WAY	37.9587006457	-84.5143424674
HLX-6620	H6620	4517	BILTMORE PL	37.957977329	-84.5138448924
HLX-6621	H6621	520	RAVENNA LN	37.9565651707	-84.5141192262
HLX-6622	H6622	50	RAVENNA LN	37.9571535655	-84.5150657316
HLX-6623	H6623	4485	LOGANS FORT LN	37.9778793972	-84.4117453353
HLX-6624	H6624	224	EMILIE LN	37.978765601	-84.4119510136
HLX-6625	H6625	20	EMILIE LN	37.9779297413	-84.4129345961
HLX-6626	H6626	20	RICHARDSON PL	37.9784283781	-84.4137506221
HLX-6627	H6627	4417	LOGANS FORT LN	37.9791017844	-84.4145261448
HLX-6628	H6628	2680	MILITARY PIKE	37.9974902469	-84.5955506686
HLX-6629	H6629	2801	MILITARY PIKE	37.99886929	-84.600325712
HLX-6630	H6630	3071	MILITARY PIKE	38.0002392349	-84.6051025924
HLX-6631	H6631	3170	MILITARY PIKE	38.0019787836	-84.6110544333
HLX-6632	H6632	3501	MILITARY PIKE	38.0038341568	-84.61727173
HLX-6633	H6633	3660	MILITARY PIKE	38.0048336995	-84.6201346006
HLX-6634	H6634	3726	MILITARY PIKE	38.0061677788	-84.6240712042
HLX-6635	H6635	400	MILITARY PIKE	38.0081768058	-84.6299224293
HLX-6636	H6636	4566	WILLMAN WAY	37.9840937037	-84.401869523
HLX-6637	H6637	4538	WILLMAN WAY	37.9848891887	-84.4025143481
HLX-6638	H6638	4508	WILLMAN WAY	37.9857091733	-84.4031673712
HLX-6639	H6639	4488	WILLMAN WAY	37.9866315044	-84.4025360289
HLX-6640	H6640	4140	SPERLING DR	37.9873219636	-84.4019480277
HLX-6641	H6641	4120	SPERLING DR	37.9885598486	-84.4023967577
HLX-6642	H6642	4112	SPERLING DR	37.9891658346	-84.4037153498
HLX-6643	H6643	4481	TURTLE CREEK WAY	37.9888055372	-84.4046498187
HLX-6644	H6644	4468	TURTLE CREEK WAY	37.9885363447	-84.4035212607
HLX-6645	H6645	4452	TURTLE CREEK WAY	37.9880422179	-84.4030281727
HLX-6646	H6646	4417	TURTLE CREEK WAY	37.9871671816	-84.4039023835
HLX-6647	H6647	617	MANNINGTON PL	38.0002478562	-84.5452081736
HLX-6648	H6648	4504	TURTLE CREEK WAY	37.988240864	-84.4056915949
HLX-6649	H6649	4316	TURTLE CREEK CV	37.9879089153	-84.406282504

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6650	H6650	4404	TURTLE CREEK WAY	37.9871461396	-84.4049778313
HLX-6651	H6651	4377	RIVARD LN	37.9870601388	-84.4060589879
HLX-6652	H6652	4357	RIVARD LN	37.9874706712	-84.4071458407
HLX-6653	H6653	4349	RIVARD LN	37.9877613165	-84.407701075
HLX-6654	H6654	4316	RIVARD LN	37.9868463034	-84.4084618402
HLX-6655	H6655	4417	RIVARD LN	37.9861719096	-84.4075800612
HLX-6656	H6656	4397	RIVARD LN	37.9863250299	-84.4064606139
HLX-6657	H6657	326	JANE BRIGGS AVE	37.9831078141	-84.4102095171
HLX-6658	H6658	321	RICHARDSON PL	37.9827570378	-84.4095741549
HLX-6659	H6659	312	ISABELLA LN	37.9820465332	-84.4087588835
HLX-6660	H6660	40	LANARKSHIRE PL	37.9817051265	-84.4080799215
HLX-6661	H6661	30	ISABELLA LN	37.9815046989	-84.4093743175
HLX-6662	H6662	587	GOLDON TROPHY TRL	37.9773712278	-84.5424646604
HLX-6663	H6663	525	GOLDON TROPHY TRL	37.9774926322	-84.5401202111
HLX-6664	H6664	325	HAYS BLVD	37.9826804914	-84.4142888674
HLX-6665	H6665	4352	STUART HALL BLVD	37.9832567343	-84.4139241353
HLX-6666	H6666	4385	STUART HALL BLVD	37.9838127206	-84.4126429347
HLX-6667	H6667	384	HAYS BLVD	37.9835603102	-84.4118647358
HLX-6668	H6668	409	HAYS BLVD	37.9842986776	-84.4107975085
HLX-6669	H6669	1180	BRICK HOUSE LN	38.0009401855	-84.3974911792
HLX-6670	H6670	1156	BRICK HOUSE LN	38.0006314701	-84.3982672518
HLX-6671	H6671	1108	BRICK HOUSE LN	38.0013750087	-84.3990608684
HLX-6672	H6672	3665	BEATEN PATH	38.0018185098	-84.3982220934
HLX-6673	H6673	3633	BEATEN PATH	38.002603945	-84.398688435
HLX-6674	H6674	3621	POLO CLUB BLVD	38.0040339359	-84.3977591709
HLX-6675	H6675	1028	WELLINGTON WAY	38.0053501981	-84.5699927381
HLX-6676	H6676	1064	WELLINGTON WAY	38.0062052127	-84.5715236219
HLX-6677	H6677	1933	LONG POND WALK	38.0016112807	-84.4804391134
HLX-6678	H6678	3516	CASTLEGATE WYND	38.001563424	-84.4829030243
HLX-6679	H6679	3501	CASTLEGATE WYND	38.001954637	-84.4840722984
HLX-6680	H6680	3613	HIDDEN POND RD	38.0028017271	-84.4842195233
HLX-6681	H6681	1816	ST IVES CIR	38.0047911657	-84.4841808239
HLX-6682	H6682	1828	ST IVES CIR	38.0048463436	-84.4832869283
HLX-6683	H6683	1881	HONEY SPRING PL	38.0031490566	-84.4822890437

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HLX-6684	H6684	4088	NICHOLASVILLE RD	37.9767174775	-84.5296073073
HLX-6685	H6685	4174	NICHOLASVILLE RD	37.9750949992	-84.5302775241
HLX-6686	H6686	404	SPORTING CT	37.9979637958	-84.5340859174
HLX-6687	H6687	410	SPORTING CT	37.9986864014	-84.5339344489
HLX-6688	H6688	250	FOUNTAIN CT	38.0051889528	-84.4379022363
HLX-6689	H6689	2024	BRYANT RD	38.0181147447	-84.4105358517
HLX-6690	H6690	521	BAYLOR PL	37.9736359785	-84.5425655996
HLX-6691	H6691	497	JOSEPH BRYAN WAY	37.9742514903	-84.5431255401
HLX-6692	H6692	465	JOSEPH BRYAN WAY	37.9741653631	-84.5421578336
HLX-6693	H6693	441	JOSEPH BRYAN WAY	37.9742017129	-84.5410764282
HLX-6694	H6694	412	JOSEPH BRYAN WAY	37.9738047102	-84.5402500078
HLX-6695	H6695	3826	LOCHDALE TER	37.9735323695	-84.541477084
HLX-6696	H6696	320	BLEDSON PL	38.0249325616	-84.3976980181
HLX-6697	H6697	3050	HELMSDALE PL	38.0123896871	-84.4217961853
HLX-6698	H6698	1768	ALYSHEBA WAY	38.0151461691	-84.4231192752
HLX-6699	H6699	1748	ALYSHEBA WAY	38.0151228556	-84.4238685205
HLX-6700	H6700	1745	ALYSHEBA WAY	38.0152323756	-84.4249238218
HLX-6701	H6701	557	PASADENA DR	38.0115784594	-84.5362881715
HLX-6702	H6702	577	PASADENA DR	38.0118598669	-84.5374979632
HLX-6703	H6703	301	TWIN SPIRES TRL	37.9771492479	-84.5379247591
HLX-6704	H6704	3872	FOLEYS TRL	37.9807629974	-84.5619583859
HLX-6705	H6705	1129	HARLAN CIR	37.9814793631	-84.562177061
HLX-6706	H6706	3836	FOLEYS TRL	37.9817395063	-84.5614260326
HLX-6707	H6707	1125	SPRING RUN RD	37.9822865253	-84.5607490092
HLX-6708	H6708	1158	SPRING RUN RD	37.982473204	-84.5619451762
HLX-6709	H6709	3936	PINE RIDGE WAY	37.9817099887	-84.563119886
HLX-6710	H6710	390	PINE RIDGE WAY	37.9827245702	-84.5629196902
HLX-6711	H6711	3937	PINECREST WAY	37.9821553216	-84.5636147113
HLX-6712	H6712	3884	PINECREST WAY	37.9837280045	-84.5628974335
HLX-6713	H6713	3852	PINECREST WAY	37.9846647138	-84.5623386994
HLX-6714	H6714	380	PINE RIDGE WAY	37.9846950359	-84.5614631635
HLX-6715	H6715	417	LONG BRANCH LN	38.0862326294	-84.5596171939
HLX-6716	H6716	448	LONG BRANCH LN	38.0868021621	-84.5586856463
HLX-6717	H6717	10	TOWN BRANCH CV	38.0875778759	-84.5581200652

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HLX-6718	H6718	2956	TOWN BRANCH RD	38.0881339002	-84.5575765629
HLX-6719	H6719	2401	PASCOLI PL	38.0293669137	-84.4247971216
HLX-6720	H6720	2425	PASCOLI PL	38.0306108642	-84.4249385056
HLX-6721	H6721	2501	PASCOLI PL	38.0335383311	-84.4282948424
HLX-6722	H6722	240	SAN MILANO PL	38.0318171796	-84.4256058874
HLX-6723	H6723	2424	SAN MILANO PL	38.0324707905	-84.424583204
HLX-6724	H6724	2401	CORONEO LN	38.0323604755	-84.4264912086
HLX-6725	H6725	2424	CORONEO LN	38.0333276992	-84.4258597199
HLX-6726	H6726	2440	CORONEO LN	38.0340241835	-84.4260187944
HLX-6727	H6727	2440	ROSSINI PL	38.0336152461	-84.4249018148
HLX-6728	H6728	2513	CARDUCCI ST	38.0333954544	-84.4269042288
HLX-6729	H6729	2541	CARDUCCI ST	38.0344976867	-84.4275767319
HLX-6730	H6730	1751	ATOMA DR	38.0881542662	-84.5127322148
HLX-6731	H6731	3802	POLO CLUB BLVD	37.9965766166	-84.394757048
HLX-6732	H6732	1680	KONNER WOOD DR	38.0856558951	-84.5128876072
HLX-6733	H6733	1672	ATOMA DR	38.0848978361	-84.5129916689
HLX-6734	H6734	1648	ATOMA DR	38.0842055238	-84.5130137405
HLX-6735	H6735	2021	POLK LN	38.0841417752	-84.51206872
HLX-6736	H6736	1620	KONNER WOOD DR	38.0847407614	-84.511099224
HLX-6737	H6737	2013	WILLIS DR	38.084846613	-84.5120230146
HLX-6738	H6738	1660	KONNER WOOD DR	38.0855234361	-84.5120072834
HLX-6739	H6739	3884	WENTWORTH PL	37.9861061781	-84.4295046575
HLX-6740	H6740	169	ELLERSLIE PARK BLVD	37.98583	-84.42985
HLX-6741	H6741	3883	ORMESBY PL	37.9852617825	-84.4313389939
HLX-6742	H6742	3892	LEIGHTON LN	37.9845618865	-84.4319211831
HLX-6743	H6743	193	SOMERSLY PL	37.9841544432	-84.4313508041
HLX-6744	H6744	221	ELLERSLIE PARK BLVD	37.9828443706	-84.4314076827
HLX-6745	H6745	197	ELLERSLIE PARK BLVD	37.9836268037	-84.430354506
HLX-6746	H6746	3928	TATTON PK	37.982781229	-84.4283241571
HLX-6747	H6747	3972	TATTON PK	37.981313295	-84.4275904401
HLX-6748	H6748	224	GRASSLAND PK	37.9822743603	-84.4297873043
HLX-6749	H6749	261	GRASSLAND PK	37.9812048927	-84.4307237495
HLX-6750	H6750	3901	BRANHAM PK	37.9799164983	-84.4305623393
HLX-6751	H6751	209	KELBURN CT	37.9804260909	-84.4293429347

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HLX-6752	H6752	3945	BRANHAM PK	37.9799477336	-84.4287659234
HLX-6753	H6753	3993	BRANHAM PK	37.9799830411	-84.427170087
HLX-6754	H6754	3405	SCOTTISH TRCE	38.0246676237	-84.3967607752
HLX-6755	H6755	3153	CHERRY MEADOW PATH	38.02205664	-84.3968300416
HLX-6756	H6756	2429	GOOSEBERRY CIR	38.0229941032	-84.395462079
HLX-6757	H6757	3124	CHERRY MEADOW PATH	38.0220493715	-84.395533885
HLX-6758	H6758	2340	THISTLE PK	38.0199368062	-84.3945468359
HLX-6759	H6759	2309	THISTLE PK	38.0190676422	-84.3957405756
HLX-6760	H6760	300	BRACKTOWN RD	38.0921895164	-84.5615272215
HLX-6761	H6761	3586	LOCHDALE TER	37.9782044413	-84.5373746047
HLX-6762	H6762	30	JOHNS TURN TRL	37.9777469662	-84.537628006
HLX-6763	H6763	4182	TRADITION WAY	37.9849128482	-84.420173023
HLX-6764	H6764	816	SUNNY SLOPE TRCE	37.9713145811	-84.550632328
HLX-6765	H6765	841	SUNNY SLOPE TRCE	37.9716516441	-84.5495754421
HLX-6766	H6766	3924	YELLOWWOOD TRCE	37.9704610945	-84.5496796736
HLX-6767	H6767	3905	HOLLYBERRY LN	37.9714843634	-84.5485470732
HLX-6768	H6768	3920	HOLLYBERRY LN	37.9706428638	-84.5485763017
HLX-6769	H6769	3945	HOLLYBERRY LN	37.9695168955	-84.5484815384
HLX-6770	H6770	3905	SWEETSPIRE DR	37.9712892184	-84.5476052166
HLX-6771	H6771	3929	SWEETSPIRE DR	37.9702350132	-84.5476023734
HLX-6772	H6772	2300	PATCHEN WILKES DR	38.0422322964	-84.4411092569
HLX-6773	H6773	2272	PATCHEN WILKES DR	38.0427631103	-84.4404132575
HLX-6774	H6774	1899	GOODPASTER WAY	38.0431862718	-84.4396695477
HLX-6775	H6775	1868	GOODPASTER WAY	38.0438903016	-84.4413593713
HLX-6776	H6776	1833	GOODPASTER WAY	38.0443046233	-84.442777167
HLX-6777	H6777	1809	GOODPASTER WAY	38.0435391015	-84.4428456411
HLX-6778	H6778	1776	GOODPASTER WAY	38.0430575874	-84.4412911882
HLX-6779	H6779	1972	GENERAL WARFIELD WAY	38.0426515636	-84.4424250229
HLX-6780	H6780	1949	GENERAL WARFIELD WAY	38.0429859521	-84.4433921168
HLX-6781	H6781	1921	GENERAL WARFIELD WAY	38.0432050961	-84.4443524733
HLX-6782	H6782	1901	GENERAL WARFIELD WAY	38.0426124836	-84.445195783
HLX-6783	H6783	1912	GENERAL WARFIELD WAY	38.0427604502	-84.4445665706
HLX-6784	H6784	2980	MAHALA LN	38.0257763816	-84.3986474547
HLX-6785	H6785	3013	MAHALA CV	38.026048391	-84.3998247086

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HLX-6786	H6786	301	DREXEL PASS	38.0253551001	-84.4003552509
HLX-6787	H6787	3020	DREXEL PASS	38.0251785614	-84.3993482691
HLX-6788	H6788	2873	MAHALA LN	38.0245706849	-84.4007221839
HLX-6789	H6789	2844	MAHALA LN	38.0237386038	-84.4007302436
HLX-6790	H6790	2996	CONSTANTINE AVE	38.0241443001	-84.3992587834
HLX-6791	H6791	721	PRESS AVE	38.0346680565	-84.5117411583
HLX-6792	H6792	520	HAWKS NEST PT	37.9587195171	-84.5117658189
HLX-6793	H6793	250	S MARTIN LUTHER KING BLVD	38.0427550805	-84.498744685
HLX-6794	H6794	230	S MARTIN LUTHER KING BLVD	38.0433211662	-84.497968307
HLX-6795	H6795	320	BROADLEAF LN	38.0051260456	-84.5267627955
HLX-6796	H6796	2251	INNOVATION DR	38.0984848353	-84.5191000745
HLX-6797	H6797	2285	INNOVATION DR	38.0988356897	-84.5198350294
HLX-6798	H6798	286	SIMPSON AVE	38.0364040826	-84.5175019051
HLX-6799	H6799	3789	EVERETTS DALE	37.9747037287	-84.5488845882
HLX-6800	H6800	738	SPRUCEWOOD DR	37.9743962504	-84.5481391401
HLX-6801	H6801	712	SPRUCEWOOD DR	37.9741116294	-84.5473016094
HLX-6802	H6802	233	HAYS BLVD	37.9841518376	-84.4171796173
HLX-6803	H6803	0	E 6TH ST	38.0473468723	-84.4789459724
HLX-6804	H6804	615	SHROPSHIRE AVE	38.0482714855	-84.4789641076
HLX-6805	H6805	245	FAIRGROUNDS DR	38.0714064796	-84.4499844421
HLX-6806	H6806	221	FAIRGROUNDS DR	38.0718499473	-84.4505118529
HLX-6807	H6807	3837	STILL MEADOW LN	37.9910099348	-84.4117627258
HLX-6808	H6808	3864	STILL MEADOW LN	37.9896691881	-84.4111115155
HLX-6809	H6809	411	E 6TH ST	38.0490842057	-84.480933539
HLX-6810	H6810	5501	HALEY DOWNS DR	38.0653497026	-84.3112164619
HLX-6811	H6811	2528	PASCOLI PL	38.034777843	-84.4286046363
HLX-6812	H6812	2565	CARDUCCI ST	38.035592907	-84.4274439222
HLX-6813	H6813	2581	PASCOLI PL	38.035686716	-84.4260966263
HLX-6814	H6814	2408	GEPPA CT	38.0348727462	-84.4258086947
HLX-6815	H6815	2590	CARDUCCI ST	38.036371186	-84.4271233908
HLX-6816	H6816	0	SIR BARTON WAY	38.0371457881	-84.4258684677
HLX-6817	H6817	0	SIR BARTON WAY	38.0364766292	-84.4249628634
HLX-6818	H6818	4113	RESERVE RD	37.9995730406	-84.5778762614
HLX-6819	H6819	227	BOLIVAR ST	38.0425259613	-84.5057286515

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6820	H6820	4681	HALEY RD	38.0613735371	-84.3247071264
HLX-6821	H6821	5420	HALEY DOWNS DR	38.0618616429	-84.3206327123
HLX-6822	H6822	5442	HALEY DOWNS DR	38.0631020694	-84.315973539
HLX-6823	H6823	906	VILLAGE GREEN AVE	38.021669636	-84.4297193
HLX-6824	H6824	916	VILLAGE GREEN AVE	38.0220212707	-84.4293501104
HLX-6825	H6825	1400	BEAUMONT CENTRE LN	38.0217206174	-84.5725143397
HLX-6826	H6826	2549	MILSOM LN	38.1057548182	-84.5078572374
HLX-6827	H6827	3093	LAKECREST CIR	38.0179590772	-84.5564168954
HLX-6828	H6828	3084	LAKECREST CIR	38.0173332173	-84.5552137656
HLX-6829	H6829	3277	POLO CLUB BLVD	38.0148170238	-84.400205985
HLX-6830	H6830	2248	POKE BERRY PK	38.016097539	-84.3992532211
HLX-6831	H6831	2501	MILSOM LN	38.1042279004	-84.5082964426
HLX-6832	H6832	2256	WALCOT WAY	38.1036160913	-84.5072153956
HLX-6833	H6833	2304	WALCOT WAY	38.1033061722	-84.5084639632
HLX-6834	H6834	2344	WALCOT WAY	38.1032316185	-84.5102166131
HLX-6835	H6835	2388	WALCOT WAY	38.1033736979	-84.5119790888
HLX-6836	H6836	129	TOWNE SQUARE PK	38.0674883745	-84.5313050118
HLX-6837	H6837	159	TOWNE WALK	38.0673880065	-84.532154111
HLX-6838	H6838	161	TOWNE SQUARE PK	38.0667940601	-84.5320227854
HLX-6839	H6839	179	TOWNE SQUARE PK	38.0664610936	-84.5320846326
HLX-6840	H6840	169	TOWNE CENTER DR	38.0663455453	-84.531440078
HLX-6841	H6841	839	HAYS BLVD	37.9912048504	-84.4027638021
HLX-6842	H6842	1109	MCATEE RUN	37.9526224956	-84.4863185456
HLX-6843	H6843	2033	BRYANT RD	38.0177144552	-84.4099971275
HLX-6844	H6844	3321	BEAUMONT CENTRE CIR	38.0152682591	-84.5591819224
HLX-6845	H6845	3298	VERANDAH PL	38.0147122812	-84.5586049687
HLX-6846	H6846	136	E LOWRY LN	38.0052191949	-84.5165598958
HLX-6847	H6847	900	HAYS BLVD	37.9931415981	-84.4017316487
HLX-6848	H6848	840	HAYS BLVD	37.9918117193	-84.4022688807
HLX-6849	H6849	1245	PASSAGE MOUND WAY	38.0049039288	-84.3952985021
HLX-6850	H6850	1216	PASSAGE MOUND WAY	38.0051454664	-84.3966682685
HLX-6851	H6851	3601	POLO CLUB BLVD	38.0051124375	-84.397858459
HLX-6852	H6852	901	SUNNY SLOPE TRCE	37.9709532704	-84.5467107623
HLX-6853	H6853	949	SUNNY SLOPE TRCE	37.9695806611	-84.546465321

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 191 of 209
HLX-6854	H6854	4013	SWEETSPIRE DR	37.9682587226	-84.5463729373
HLX-6855	H6855	3960	SWEETSPIRE DR	37.9693440062	-84.5473128105
HLX-6856	H6856	70	SUNNY SLOPE TRCE	37.968654295	-84.5474730331
HLX-6857	H6857	732	SUNNY SLOPE TRCE	37.9690303174	-84.548807855
HLX-6858	H6858	760	SUNNY SLOPE TRCE	37.9695496784	-84.5500930558
HLX-6859	H6859	781	SUNNY SLOPE TRCE	37.9702010345	-84.5506383988
HLX-6860	H6860	824	TIFFANIE CT	37.9703366029	-84.5520584807
HLX-6861	H6861	2474	BOWMAN MILL RD	37.996741269	-84.5864269851
HLX-6862	H6862	4277	PALMETTO DR	37.9970863031	-84.5861885228
HLX-6863	H6863	4371	HARRODSBURG RD	37.9963513187	-84.5846835842
HLX-6864	H6864	301	WHITE OAK TRCE	38.0819868929	-84.5588361519
HLX-6865	H6865	325	WHITE OAK TRCE	38.0816992425	-84.5580693095
HLX-6866	H6866	20	WOOLEN MILL LN	38.0832548718	-84.5569900421
HLX-6867	H6867	148	WOOLEN MILL LN	38.0848696102	-84.5555432416
HLX-6868	H6868	2797	BURNT MILL RD	38.083979842	-84.5552436498
HLX-6869	H6869	2764	BURNT MILL RD	38.0829968558	-84.5561423253
HLX-6870	H6870	349	WHITE OAK TRCE	38.081443213	-84.5573067315
HLX-6871	H6871	389	WHITE OAK TRCE	38.0817329546	-84.5559790431
HLX-6872	H6872	417	WHITE OAK TRCE	38.0825523287	-84.5552734928
HLX-6873	H6873	461	WHITE OAK TRCE	38.0837254142	-84.5542768075
HLX-6874	H6874	3541	GREENTREE RD	37.9809321114	-84.4901823874
HLX-6875	H6875	604	SKYVIEW LN	38.0975472282	-84.5361414856
HLX-6876	H6876	632	SKYVIEW LN	38.0972811562	-84.5350520654
HLX-6877	H6877	2660	ROCKAWAY PL	38.0977805497	-84.5333579218
HLX-6878	H6878	2401	ROCKAWAY PL	38.0984336005	-84.5333792137
HLX-6879	H6879	2445	ROCKAWAY PL	38.0989031411	-84.5348956714
HLX-6880	H6880	2489	ROCKAWAY PL	38.0993938722	-84.5364738784
HLX-6881	H6881	2560	ROCKAWAY PL	38.0985681774	-84.5366232017
HLX-6882	H6882	2609	ROCKAWAY PL	38.0980087685	-84.5350200566
HLX-6883	H6883	253	ELLERSLIE PARK BLVD	37.9825435814	-84.433039741
HLX-6884	H6884	260	GRIBBIN DR	38.0086704749	-84.4572478342
HLX-6885	H6885	4401	LOGANS FORT LN	37.9796672494	-84.415088148
HLX-6886	H6886	217	HANNA TODD PL	37.9804122149	-84.4144536796
HLX-6887	H6887	241	HANNA TODD PL	37.9811837839	-84.4142420176

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6888	H6888	276	HANNA TODD PL	37.9815465389	-84.415219832
HLX-6889	H6889	225	SOMERSLY PL	37.9841028374	-84.432924789
HLX-6890	H6890	257	SOMERSLY PL	37.9848777314	-84.4339105328
HLX-6891	H6891	281	SOMERSLY PL	37.9841544432	-84.4313508041
HLX-6892	H6892	293	SOMERSLY PL	37.9862200879	-84.4326630137
HLX-6893	H6893	3264	POLO CLUB BLVD	38.014698953	-84.4009946645
HLX-6894	H6894	2197	ICE HOUSE WAY	38.014116242	-84.3996831143
HLX-6895	H6895	3173	SWEET CLOVER LN	38.0132809351	-84.3996396224
HLX-6896	H6896	3217	SWEET CLOVER LN	38.0137981711	-84.4008948365
HLX-6897	H6897	3276	SWEET CLOVER LN	38.0132036943	-84.4016833759
HLX-6898	H6898	2136	MILLSTONE WAY	38.0127809095	-84.4003153962
HLX-6899	H6899	3328	SWEET CLOVER LN	38.011930054	-84.4013823244
HLX-6900	H6900	3374	SWEET CLOVER LN	38.0116202433	-84.39967324
HLX-6901	H6901	450	BOWER LN	37.9882287432	-84.3978469687
HLX-6902	H6902	764	MAIDENCANE DR	37.9869363578	-84.3952311599
HLX-6903	H6903	784	MAIDENCANE DR	37.9866089996	-84.3942683366
HLX-6904	H6904	732	MAIDENCANE DR	37.9874050521	-84.3967270273
HLX-6905	H6905	701	MAIDENCANE DR	37.9865676418	-84.3974900078
HLX-6906	H6906	4625	MARLBERRY PL	37.9861956564	-84.3960242456
HLX-6907	H6907	4652	MARLBERRY PL	37.9855453833	-84.3947692902
HLX-6908	H6908	676	MAIDENCANE DR	37.9856341748	-84.3975422089
HLX-6909	H6909	4624	HONEYCOMB TRL	37.9845350627	-84.3966157225
HLX-6910	H6910	4656	HONEYCOMB TRL	37.9847360223	-84.3952888084
HLX-6911	H6911	4509	VERBENA PK	37.986325284	-84.3985051238
HLX-6912	H6912	1056	JOUETT CREEK DR	37.9899512985	-84.3969775944
HLX-6913	H6913	4401	NATAL PL	37.9889240193	-84.397433025
HLX-6914	H6914	4505	ARUM PK	37.989279637	-84.3958160763
HLX-6915	H6915	4424	NATAL PL	37.9888012942	-84.3959485751
HLX-6916	H6916	4452	BANYAN PK	37.9889214266	-84.3945912971
HLX-6917	H6917	4424	BANYAN PK	37.9896711895	-84.3950204636
HLX-6918	H6918	1012	STONECROP DR	37.9909086853	-84.3953435625
HLX-6919	H6919	1044	STONECROP DR	37.9901684197	-84.3959421495
HLX-6920	H6920	1024	JOUETT CREEK DR	37.9908614721	-84.3962792459
HLX-6921	H6921	996	JOUETT CREEK DR	37.9921289872	-84.3967368827

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6922	H6922	976	JOUETT CREEK DR	37.9926263303	-84.3973041967
HLX-6923	H6923	4016	BACOPA PL	37.993432657	-84.3968649717
HLX-6924	H6924	957	JOUETT CREEK DR	37.9927908096	-84.3981828416
HLX-6925	H6925	676	SKYVIEW LN	38.0966718142	-84.5337291829
HLX-6926	H6926	2496	MULUNDY WAY	38.0972343319	-84.5309161481
HLX-6927	H6927	2496	CRESCENZIO WAY	38.0968879837	-84.5317347442
HLX-6928	H6928	2485	CRESCENZIO WAY	38.0965510709	-84.5315363486
HLX-6929	H6929	656	ESTRELLA DR	38.0958961814	-84.5329473576
HLX-6930	H6930	5031	JO MARRS ST	37.9629340385	-84.3713747033
HLX-6931	H6931	5828	KINGPOST CT	37.9615900506	-84.3706661607
HLX-6932	H6932	0	MAN O WAR BLVD	38.0066481743	-84.4368385385
HLX-6934	H6934	2642	PINK PIGEON PKY	38.0213906043	-84.4253811963
HLX-6935	H6935	4427	BRIAR HILL RD	38.0670422566	-84.3593679515
HLX-6936	H6936	4782	STEWART RD	38.0981199099	-84.3657610278
HLX-6937	H6937	4700	STEWART RD	38.0963841579	-84.3682357741
HLX-6938	H6938	1831	MUIR STATION RD	38.0920664397	-84.3643012376
HLX-6939	H6939	3121	BEAUMONT CENTRE CIR	38.0197271855	-84.5548863243
HLX-6940	H6940	531	WELLINGTON WAY	37.9993024039	-84.5404442684
HLX-6941	H6941	4537	WALNUT CREEK DR	37.9852666105	-84.4177246916
HLX-6942	H6942	105	ROBINSON WAY	38.08315	-84.54789
HLX-6943	H6943	149	ROBINSON WAY	38.0839179755	-84.547174107
HLX-6944	H6944	185	FERNDALE PASS	38.0848834233	-84.5462497504
HLX-6945	H6945	208	SHELL CT	38.0856962064	-84.5469211504
HLX-6946	H6946	2356	BAILEYS ROW	38.0980247014	-84.526927896
HLX-6947	H6947	1301	HARRINGTON CT	38.0980655035	-84.5254495897
HLX-6948	H6948	964	APPLECROSS DR	38.0979746595	-84.5244779234
HLX-6949	H6949	104	APPLECROSS DR	38.0990801369	-84.5248333571
HLX-6950	H6950	1301	BLARNEY CT	38.0998249864	-84.5251921802
HLX-6951	H6951	1040	APPLECROSS DR	38.0998054811	-84.5261224413
HLX-6953	H6953	804	RAVEN RD	37.9984278147	-84.4980395443
HLX-6954	H6954	3875	REAL QUIET LN	38.00998	-84.38136
HLX-6955	H6955	3904	REAL QUIET LN	38.00979	-84.37961
HLX-6956	H6956	3933	REAL QUIET LN	38.0109742192	-84.3783775839
HLX-6957	H6957	60	W MAIN ST	38.0518745483	-84.5034244728

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6958	H6958	3220	BLED SOE PL	38.0259422358	-84.3975688377
HLX-6959	H6959	330	FELICIANA LN	38.0273589458	-84.397646135
HLX-6960	H6960	3304	FELICIANA LN	38.0272897988	-84.397068636
HLX-6961	H6961	2913	FAIRFAX LN	38.0264552662	-84.3962315543
HLX-6962	H6962	2928	BLACKFORD PKY	38.0283677282	-84.3986425715
HLX-6963	H6963	3301	BLACKFORD PASS	38.0292693832	-84.3996251299
HLX-6965	H6965	2585	LIBERTY RD	38.0188279445	-84.4331480734
HLX-6966	H6966	2734	LIBERTY RD	38.0157629081	-84.4291247591
HLX-6967	H6967	1071	CRESTFIELD LN	37.9430095489	-84.4842140472
HLX-6968	H6968	0	SIR BARTON WAY	38.0408110645	-84.4285554877
HLX-6969	H6969	0	SIR BARTON WAY	38.0393757228	-84.428470887
HLX-6970	H6970	1797	MILLBANK RD	38.0832228539	-84.4703161135
HLX-6971	H6971	756	BURGESS AVE	38.0837312759	-84.4717928405
HLX-6972	H6972	1861	MILLBANK RD	38.0841709786	-84.4707574306
HLX-6973	H6973	0	E 6TH ST	38.04692718	-84.4780582581
HLX-6974	H6974	0	E 6TH ST	38.0465652754	-84.4773548117
HLX-6975	H6975	235	E 2ND ST	38.0465745315	-84.4912391539
HLX-6976	H6976	3709	HORSE MINT TRL	37.9918583173	-84.4149258547
HLX-6977	H6977	50	MIST FLOWER LN	37.9905017508	-84.4131909833
HLX-6978	H6978	3632	HORSE MINT TRL	37.9890783317	-84.4117587544
HLX-6979	H6979	150	RICHMOND PLZ	38.0095519313	-84.4581777126
HLX-6980	H6980	2530	KEARNEY RIDGE BLVD	38.1102666438	-84.5188678699
HLX-6981	H6981	2564	KEARNEY RIDGE BLVD	38.1098610283	-84.520715638
HLX-6982	H6982	2601	KEARNEY RIDGE BLVD	38.1103875171	-84.5221332082
HLX-6983	H6983	2620	KEARNEY RIDGE BLVD	38.1105163829	-84.5232697873
HLX-6984	H6984	2936	SULLIVANS TRCE	38.1113768228	-84.5247048657
HLX-6985	H6985	3249	CREEK PATH LN	38.1101693024	-84.5245203499
HLX-6986	H6986	2765	SULLIVANS TRCE	38.1086601406	-84.5226687218
HLX-6987	H6987	2633	KEARNEY CREEK LN	38.1092199741	-84.5244483266
HLX-6988	H6988	2661	KEARNEY CREEK LN	38.1090448004	-84.5259113911
HLX-6989	H6989	2696	KEARNEY CREEK LN	38.108280486	-84.5248823449
HLX-6990	H6990	2741	SULLIVANS TRCE	38.1076645461	-84.5231394534
HLX-6991	H6991	2753	KEARNEY CREEK LN	38.1073145202	-84.5218273543
HLX-6992	H6992	2789	KEARNEY CREEK LN	38.106797064	-84.5202367551

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-6993	H6993	2813	KEARNEY CREEK LN	38.1074284409	-84.5195998711
HLX-6994	H6994	2836	KEARNEY CREEK LN	38.1079916802	-84.5206313975
HLX-6995	H6995	842	WARFIELD PL	38.0517417452	-84.472036169
HLX-6997	H6997	4040	REAL QUIET LN	38.0145653308	-84.3822998772
HLX-6998	H6998	4024	REAL QUIET LN	38.0138117727	-84.3814668551
HLX-6999	H6999	3858	SLIVER CHARM LN	38.0123248185	-84.381440441
HLX-7000	H7000	3989	REAL QUIET LN	38.0125633088	-84.3804987039
HLX-7001	H7001	3963	REAL QUIET LN	38.0116400332	-84.3792571001
HLX-7002	H7002	4383	CLEARWATER WAY	37.9620169437	-84.4976142621
HLX-7003	H7003	4395	CLEARWATER WAY	37.9620539285	-84.4961054203
HLX-7004	H7004	5001	CLEARWATER WAY	37.9623424165	-84.4949086101
HLX-7005	H7005	780	MILES POINT WAY	38.0636587241	-84.5544975963
HLX-7006	H7006	376	S UPPER ST	38.0444817746	-84.5016845214
HLX-7007	H7007	3175	SANDERSVILLE RD	38.1095809417	-84.5349609421
HLX-7008	H7008	3008	LAGUNA CT	38.109316986	-84.5334837776
HLX-7009	H7009	3100	TIBURON WAY	38.110369969	-84.5340876422
HLX-7010	H7010	3148	TIBURON WAY	38.1118999737	-84.533795581
HLX-7011	H7011	3260	TIBURON WAY	38.1110998703	-84.5303798368
HLX-7012	H7012	3120	RINEY RD	38.1114487296	-84.5322658606
HLX-7013	H7013	310	RINEY RD	38.1105185464	-84.5326264614
HLX-7014	H7014	3245	SANDERSVILLE RD	38.1102076324	-84.5320164918
HLX-7015	H7015	3269	SANDERSVILLE RD	38.1098524306	-84.5307790598
HLX-7016	H7016	30	W REYNOLDS RD	37.993711318	-84.5306602073
HLX-7017	H7017	3712	ST ANDREWS WALK	38.00492	-84.41139
HLX-7018	H7018	2755	GEORGETOWN RD	38.108404344	-84.5170995794
HLX-7019	H7019	665	CROMWELL WAY	37.9906674512	-84.5590593581
HLX-7020	H7020	3464	CLAYS MILL RD	37.9909225211	-84.5578394486
HLX-7021	H7021	3449	CLAYS MILL RD	37.9915351354	-84.5561109247
HLX-7022	H7022	3425	CLAYS MILL RD	37.9921410047	-84.5543475004
HLX-7023	H7023	641	CINDY BLAIR WAY	37.993653198	-84.5527698755
HLX-7024	H7024	3344	KEITHSHIRE WAY	37.9954939466	-84.5493765623
HLX-7025	H7025	3334	CLAYS MILL RD	37.9968228185	-84.5481712693
HLX-7026	H7026	632	BETH LN	38.0004824628	-84.5464035142
HLX-7027	H7027	3105	CLAYS MILL RD	38.0020579687	-84.5454106683

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HLX-7029	H7029	9343	ROCKWELL RD	38.0439916074	-84.3172714761
HLX-7030	H7030	9275	ROCKWELL RD	38.0426792872	-84.3120111143
HLX-7031	H7031	8989	ROCKWELL RD	38.0404343354	-84.302324153
HLX-7032	H7032	825	SUGARBUSH TRL	37.9896142876	-84.3982433152
HLX-7033	H7033	157	N BROADWAY	38.0695200991	-84.3305664085
HLX-7034	H7034	187	N BROADWAY	38.0677754083	-84.3432307379
HLX-7035	H7035	2492	TREELINE WAY	38.0209571156	-84.439546783
HLX-7036	H7036	2440	TREELINE WAY	38.0210755846	-84.4406582955
HLX-7037	H7037	4056	SWEETSPIRE DR	37.9680163829	-84.5444459935
HLX-7038	H7038	4093	SWEETSPIRE DR	37.9675780541	-84.5430701321
HLX-7039	H7039	30	LOBLOLLY CT	37.9669067112	-84.5433600337
HLX-7040	H7040	30	KELLI ROSE WAY	37.9682723863	-84.5427725489
HLX-7041	H7041	348	KELLI ROSE WAY	37.969062774	-84.5442668776
HLX-7042	H7042	30	SILVERBELL TRCE	37.9689909623	-84.5423996825
HLX-7043	H7043	352	SILVERBELL TRCE	37.9700492828	-84.5435060171
HLX-7044	H7044	2913	POLO CLUB BLVD	38.0251119131	-84.4059736075
HLX-7045	H7045	2434	NICHOLASVILLE RD	38.0026360385	-84.5195644254
HLX-7046	H7046	1400	NEWTOWN PIKE	38.0854886546	-84.489875982
HLX-7047	H7047	1449	NEWTOWN CENTER WAY	38.0850164895	-84.4886163194
HLX-7048	H7048	1403	NEWTOWN CENTER WAY	38.0832414408	-84.4889707371
HLX-7049	H7049	140	NEWTOWN PIKE	38.0830976585	-84.4910749319
HLX-7050	H7050	1321	RUSSELL SPRINGS DR	38.0844759523	-84.4870854913
HLX-7051	H7051	701	NEWTOWN SPRINGS DR	38.0839474723	-84.4855521911
HLX-7052	H7052	721	NEWTOWN SPRINGS DR	38.0830175309	-84.4866825798
HLX-7053	H7053	904	DAWSON SPRINGS WAY	38.0828236408	-84.4837955903
HLX-7054	H7054	917	DAWSON SPRINGS WAY	38.0831388749	-84.4849142228
HLX-7055	H7055	940	DAWSON SPRINGS WAY	38.0827449757	-84.4853173014
HLX-7056	H7056	1340	SILVER SPRINGS DR	38.0821228804	-84.4840101152
HLX-7057	H7057	1345	SILVER SPRINGS DR	38.0815023304	-84.4844227042
HLX-7058	H7058	733	DAWSON SPRINGS WAY	38.08153243	-84.4861193514
HLX-7059	H7059	764	DAWSON SPRINGS WAY	38.0801630765	-84.4858737502
HLX-7060	H7060	208	BUCK LN	38.0833833781	-84.5346515246
HLX-7061	H7061	588	CHILESBURG RD	37.9899532412	-84.40949832
HLX-7062	H7062	3024	BLACKFORD PKY	38.0251493246	-84.3961865829

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HLX-7063	H7063	3056	BLACKFORD PKY	38.024296615	-84.3948538827
HLX-7064	H7064	3080	BLACKFORD PKY	38.0232222531	-84.3943712018
HLX-7065	H7065	310	CHERRY MEADOW PATH	38.0223090376	-84.3940440255
HLX-7066	H7066	3241	CHERRY MEADOW PATH	38.0206142723	-84.3938504053
HLX-7067	H7067	1424	ALEXANDRIA DR	38.0478702035	-84.5518971954
HLX-7068	H7068	115	CONN TER	38.0312913166	-84.511590642
HLX-7069	H7069	3037	OUR TIBBS TRL	38.1059188852	-84.5338958671
HLX-7070	H7070	3080	OUR TIBBS TRL	38.1072944592	-84.5332444134
HLX-7071	H7071	2060	POLK LN	38.0833827552	-84.5137899424
HLX-7072	H7072	2097	POLK LN	38.0826932003	-84.5133895004
HLX-7073	H7073	3298	VERSAILLES RD	38.0442955969	-84.5739566873
HLX-7074	H7074	2906	SULLIVANS TRCE	38.1121492322	-84.5234051382
HLX-7075	H7075	2815	CHERRY BLOSSOM WAY	38.1115523881	-84.5227447965
HLX-7076	H7076	2845	SULLIVANS TRCE	38.1116314279	-84.5217173646
HLX-7077	H7077	1053	KAVENAUGH LN	38.004946471	-84.4103670906
HLX-7078	H7078	3144	BLACKFORD PKY	38.0197080063	-84.3937280017
HLX-7079	H7079	3253	BLACKFORD PKY	38.0190978283	-84.393292291
HLX-7080	H7080	3264	BLACKFORD PKY	38.0183598261	-84.3918654402
HLX-7081	H7081	330	BLACKFORD PKY	38.0175755512	-84.390190217
HLX-7082	H7082	3328	BLACKFORD PKY	38.0165738857	-84.3888457372
HLX-7083	H7083	3372	BLACKFORD PKY	38.0149396961	-84.3881394952
HLX-7084	H7084	3396	BLACKFORD PKY	38.0138245221	-84.3889856561
HLX-7085	H7085	3373	HIBERNIA PASS	38.0150419868	-84.3891942854
HLX-7086	H7086	330	MATHERN TRL	38.0170762562	-84.3908618361
HLX-7087	H7087	3332	BAY SPRINGS PK	38.0156679845	-84.3916782358
HLX-7088	H7088	2217	ICE HOUSE WAY	38.0150279531	-84.3990278014
HLX-7089	H7089	2272	ICE HOUSE WAY	38.0160362732	-84.3976332783
HLX-7090	H7090	2312	ICE HOUSE WAY	38.016857962	-84.3971221279
HLX-7091	H7091	3356	ORCHARD GRASS RD	38.0178032488	-84.3969974858
HLX-7092	H7092	3289	ORCHARD GRASS RD	38.0177186186	-84.3984312114
HLX-7093	H7093	3237	ORCHARD GRASS RD	38.0166352883	-84.3987096909
HLX-7094	H7094	4391	CLEARWATER WAY	37.9620126744	-84.4972951481
HLX-7095	H7095	1909	MILLBANK RD	38.0848911791	-84.4724683772
HLX-7096	H7096	1960	MILLBANK RD	38.0847559795	-84.4739532465

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HLX-7097	H7097	1669	MCCULLOUGH DR	38.083811781	-84.4742110289
HLX-7098	H7098	797	BURGESS AVE	38.083799198	-84.4732468734
HLX-7099	H7099	1950	EDGEWORTH DR	38.0705822084	-84.453583908
HLX-7100	H7100	1976	EDGEWORTH DR	38.0713959418	-84.4523273364
HLX-7101	H7101	217	LACLEDE AVE	38.0704716942	-84.4524434518
HLX-7102	H7102	261	LACLEDE AVE	38.07027	-84.4511
HLX-7103	H7103	292	LACLEDE AVE	38.0692034986	-84.4509247061
HLX-7104	H7104	130	TOWNE CENTER DR	38.0668805671	-84.5300520694
HLX-7105	H7105	1529	BULL LEA RD	38.0912730682	-84.4921725196
HLX-7106	H7106	810	BULL LEA RUN	38.0910387461	-84.4909681824
HLX-7107	H7107	0	E 5TH ST	38.0450723819	-84.480447457
HLX-7108	H7108	394	NELSON AVE	38.0449690047	-84.4796497189
HLX-7109	H7109	428	NELSON AVE	38.0456538655	-84.4787641354
HLX-7110	H7110	0	E 6TH ST	38.0465615932	-84.4778922782
HLX-7111	H7111	568	MUSTANG CROSSING DR	38.0458890377	-84.4766598256
HLX-7112	H7112	522	MUSTANG CROSSING DR	38.0449576877	-84.4774961778
HLX-7113	H7113	651	THOROUGHbred WAY	38.0443247122	-84.4782683444
HLX-7114	H7114	937	MIDNIGHT PASS	38.0158559278	-84.5574346722
HLX-7115	H7115	950	MIDNIGHT PASS	38.0168274267	-84.558072866
HLX-7116	H7116	973	MIDNIGHT PASS	38.0175325428	-84.5572134909
HLX-7117	H7117	2424	SIR BARTON WAY	38.0299808512	-84.4204006705
HLX-7118	H7118	1574	GEORGETOWN RD	38.083280958	-84.5100584449
HLX-7120	H7120	997	GOVERNORS LN	38.0196418406	-84.5576528649
HLX-7121	H7121	2191	NEWTOWN PIKE	38.1044205461	-84.4847101085
HLX-7122	H7122	3289	NEWTOWN PIKE	38.1314162329	-84.4872295883
HLX-7123	H7123	540	E 5TH ST	38.0463464988	-84.4818570269
HLX-7124	H7124	473	JULIA WAY	38.0457749546	-84.4812183813
HLX-7125	H7125	596	E 4TH ST	38.0436701028	-84.4822254161
HLX-7126	H7126	416	JULIA WAY	38.0446028324	-84.4824192285
HLX-7127	H7127	443	E SHROPSHIRE AVE	38.0456757601	-84.482775318
HLX-7128	H7128	542	GRINSTEAD ST	38.0445643329	-84.4834681499
HLX-7129	H7129	256	E HIGH ST	38.0419544941	-84.49527687
HLX-7130	H7130	4712	SARON DR	37.9510312411	-84.4878957438
HLX-7131	H7131	1706	RUSSELL CAVE RD	38.0790759548	-84.4710540579

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HLX-7132	H7132	287	S LIMESTONE	38.043650216	-84.5011145179
HLX-7133	H7133	217	TOWNE SQUARE PK	38.0657443206	-84.5307009648
HLX-7134	H7134	254	TOWNE SQUARE PK	38.0662394866	-84.5301996671
HLX-7135	H7135	3202	ROYSTER RD	38.0477621125	-84.3773751898
HLX-7136	H7136	3079	ROYSTER RD	38.049914072	-84.3801189088
HLX-7137	H7137	180	MEETING ST	38.0402372951	-84.4416085118
HLX-7138	H7138	2323	PATCHEN WILKES DR	38.0402128873	-84.4420375562
HLX-7139	H7139	2353	PATCHEN WILKES DR	38.0393222512	-84.442730115
HLX-7140	H7140	1769	BATTERY ST	38.0397339351	-84.4437867243
HLX-7141	H7141	2389	PATCHEN WILKES DR	38.038689377	-84.4440698166
HLX-7142	H7142	1773	SANDHURST CV	38.0380987933	-84.4454634378
HLX-7143	H7143	1768	SANDHURST CV	38.039154232	-84.4459014186
HLX-7144	H7144	1735	SANDHURST CV	38.0402227229	-84.4449735874
HLX-7145	H7145	2747	MEADOWSWEET LN	38.109272022	-84.5205901496
HLX-7146	H7146	2516	KITTENS JOY CIR	38.1090878426	-84.521110708
HLX-7147	H7147	2717	MEADOWSWEET LN	38.1084769069	-84.5204802443
HLX-7148	H7148	107	HELM ST	38.041814144	-84.4568782852
HLX-7149	H7149	1806	WHITMER WAY	38.048322527	-84.5107294685
HLX-7150	H7150	811	STAR SHOOT PKY	38.0191889132	-84.4314010235
HLX-7151	H7151	3909	HARRODSBURG RD	38.0014672977	-84.5747643239
HLX-7152	H7152	2437	FORTUNE DR	38.0337940323	-84.4468190378
HLX-7153	H7153	30	HANNA TODD PL	37.980966539	-84.4159437582
HLX-7154	H7154	2422	CALENDULA RD	38.0918673051	-84.5292482497
HLX-7155	H7155	2440	CALENDULA RD	38.0922549534	-84.5301117652
HLX-7156	H7156	2455	FIELDRUSH RD	38.0924286897	-84.5312439497
HLX-7157	H7157	2477	FIELDRUSH RD	38.0931390137	-84.5305771491
HLX-7158	H7158	2442	FIELDRUSH RD	38.0934670753	-84.5292928286
HLX-7159	H7159	2424	FIELDRUSH RD	38.0928351451	-84.5287710296
HLX-7160	H7160	2404	FIELDRUSH RD	38.0925264146	-84.5277697521
HLX-7161	H7161	951	RED MILE RD	38.0411373261	-84.524118865
HLX-7162	H7162	1730	BRYANT RD	38.0142250253	-84.4187025285
HLX-7163	H7163	224	FOREST PARK RD	38.0278227016	-84.5150529692
HLX-7164	H7164	20	FLORAL PK	38.0266123421	-84.5149493575
HLX-7165	H7165	216	FLORAL PK	38.0269280095	-84.5162068453

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HLX-7166	H7166	439	W 4TH ST	38.0548104577	-84.4948831896
HLX-7167	H7167	1742	MILLBANK RD	38.0827922378	-84.4714890105
HLX-7168	H7168	700	ELVERTON CT	38.0820014611	-84.4722736099
HLX-7169	H7169	2081	BRYANT RD	38.0164872265	-84.4099365245
HLX-7170	H7170	703	SPRING MEADOWS DR	38.0283172432	-84.5331692828
HLX-7171	H7171	0	OLD ROSEBUD RD	38.0290888319	-84.4220870975
HLX-7172	H7172	4196	SPERLING DR	37.9881844035	-84.3994411827
HLX-7173	H7173	4174	SPERLING DR	37.9871174314	-84.4000282336
HLX-7174	H7174	4154	SPERLING DR	37.9869090329	-84.4009513756
HLX-7175	H7175	648	MAIDENCANE DR	37.9844061457	-84.3987000789
HLX-7176	H7176	4205	NEEDLERUSH DR	37.983807821	-84.3975649264
HLX-7177	H7177	4209	STARRUSH PL	37.9842013385	-84.3997498942
HLX-7178	H7178	616	BUNCHBERRY ROW	37.9849372497	-84.3994513975
HLX-7179	H7179	4185	STARRUSH PL	37.9850314541	-84.4004105179
HLX-7180	H7180	333	WALLER AVE	38.0293062378	-84.5165498014
HLX-7181	H7181	1601	FERGUSON RD	38.1731228369	-84.3654810831
HLX-7182	H7182	1901	FERGUSON RD	38.1763828747	-84.3726067086
HLX-7183	H7183	2100	FERGUSON RD	38.1792635816	-84.3805770208
HLX-7184	H7184	2285	FERGUSON RD	38.181408027	-84.3867900496
HLX-7185	H7185	2421	FERGUSON RD	38.1842138722	-84.3920851268
HLX-7186	H7186	2571	FERGUSON RD	38.1874415376	-84.3973872756
HLX-7187	H7187	6736	RUSSELL CAVE RD	38.1918582509	-84.3997187873
HLX-7189	H7189	7150	RUSSELL CAVE RD	38.2024063061	-84.3943917957
HLX-7190	H7190	7290	RUSSELL CAVE RD	38.2067933394	-84.3926015575
HLX-7191	H7191	1796	FARMVIEW DR	37.9629055935	-84.4556208289
HLX-7192	H7192	0	MT TABOR RD	38.0031298879	-84.4539268183
HLX-7193	H7193	112	MT TABOR RD	38.0040750751	-84.4525380794
HLX-7194	H7194	1575	MCGRATHIANA PKY	38.0948811263	-84.4934317124
HLX-7195	H7195	3480	MILANO RD	37.9831374054	-84.4826442268
HLX-7196	H7196	2312	REMINGTON WAY	38.0963462893	-84.5077132015
HLX-7197	H7197	307	ROSEMONT GDN	38.0213453668	-84.5264958899
HLX-7198	H7198	572	PARKSIDE DR	38.0850185866	-84.4567419713
HLX-7199	H7199	231	N BROADWAY	38.0967449698	-84.5444717878
HLX-7200	H7200	3734	HORSE MINT TRL	37.9919818606	-84.4139491336

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HLX-7201	H7201	1613	HARMONY HALL LN	38.0102868676	-84.4797605333
HLX-7203	H7203	3601	PALOMAR CENTRE DR	38.005169956	-84.5684813245
HLX-7204	H7204	4566	KEARNEY RD	38.1381594767	-84.5662163177
HLX-7205	H7205	1460	N YARNALLTON PIKE	38.1364257742	-84.5688734014
HLX-7206	H7206	1289	N YARNALLTON PIKE	38.1347657479	-84.570981697
HLX-7207	H7207	333	N BROADWAY	38.0928268189	-84.5415999052
HLX-7208	H7208	1140	FLOYD DR	38.0505420382	-84.4593378743
HLX-7209	H7209	0	E 6TH ST	38.045498103	-84.4744868934
HLX-7210	H7210	0	E 6TH ST	38.0456317254	-84.4757671131
HLX-7211	H7211	0	E 6TH ST	38.0449407464	-84.4750760661
HLX-7212	H7212	0	E 6TH ST	38.0448174381	-84.4762534718
HLX-7213	H7213	515	GRANDSTAND DR	38.0443690087	-84.4766364415
HLX-7214	H7214	673	THOROUGHbred WAY	38.044017951	-84.4774056384
HLX-7215	H7215	732	THOROUGHbred WAY	38.0432981715	-84.4763664529
HLX-7216	H7216	748	TRIPLE CROWN CIR	38.0439294834	-84.4751595322
HLX-7217	H7217	3294	RICHMOND RD	37.9993337513	-84.4444755614
HLX-7218	H7218	120	SAND LAKE DR	37.9984409441	-84.4445189428
HLX-7219	H7219	109	SAND LAKE DR	37.9988853372	-84.4453643231
HLX-7220	H7220	4204	VICTORIA WAY	37.9683076924	-84.5189717583
HLX-7221	H7221	4048	MOONCOIN WAY	37.9702934364	-84.5181865166
HLX-7222	H7222	4064	MOONCOIN WAY	37.9692772533	-84.5188693827
HLX-7223	H7223	404	SPENCER PK	37.9690627343	-84.5178105968
HLX-7224	H7224	452	MADISON POINT DR	37.9687054507	-84.5163271621
HLX-7225	H7225	50	MADISON POINT DR	37.9674122527	-84.5162732308
HLX-7226	H7226	405	PARKER MEADOWS	37.9678258135	-84.5173050196
HLX-7227	H7227	4240	VICTORIA WAY	37.9670918589	-84.5182870803
HLX-7228	H7228	529	MADISON POINT DR	37.9664477188	-84.51664678
HLX-7229	H7229	401	N BROADWAY	38.0536573901	-84.4933127099
HLX-7230	H7230	430	N BROADWAY	38.1006009761	-84.5372144414
HLX-7231	H7231	2333	INNOVATION DR	38.0996747436	-84.5210157184
HLX-7232	H7232	2343	INNOVATION DR	38.1004365176	-84.5217412086
HLX-7233	H7233	2383	INNOVATION DR	38.1014691759	-84.5216776779
HLX-7234	H7234	2381	INNOVATION DR	38.1023455419	-84.521221968
HLX-7235	H7235	2421	INNOVATION DR	38.1033582815	-84.5206957564

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HLX-7236	H7236	2445	INNOVATION DR	38.1042339279	-84.5202518683
HLX-7237	H7237	501	N BROADWAY	38.0550990047	-84.4912815355
HLX-7238	H7238	2387	MERLUNA DR	38.0949888458	-84.5304069938
HLX-7239	H7239	2344	MERLUNA DR	38.0946657857	-84.5316231007
HLX-7240	H7240	2461	CRESCENZIO WAY	38.0957721891	-84.5312499693
HLX-7241	H7241	658	CIELO VISTA RD	38.0951302993	-84.5327838157
HLX-7242	H7242	523	SPRING ST	38.0455990607	-84.5069620519
HLX-7243	H7243	171	N EAGLE CREEK DR	38.0014838972	-84.4389853306
HLX-7244	H7244	716	CIELO VISTA RD	38.0955993266	-84.5297856498
HLX-7245	H7245	317	OWSLEY AVE	38.0359937767	-84.4743940355
HLX-7247	H7247	1931	STANTON WAY	38.1016418562	-84.4815416131
HLX-7248	H7248	2100	HACKNEY PL	38.10218237	-84.48089913
HLX-7249	H7249	596	BULLRUSH TRCE	37.9812329539	-84.4036586598
HLX-7250	H7250	548	BULLRUSH TRCE	37.9820799803	-84.4040639204
HLX-7251	H7251	50	BULLRUSH TRCE	37.9813372962	-84.4053205386
HLX-7252	H7252	367	MCCONNELLS TRCE	38.0858028032	-84.5654161047
HLX-7253	H7253	644	WAVELAND MUSEUM LN	37.9719912195	-84.5442928398
HLX-7254	H7254	3812	BLUE BONNET DR	37.9717356023	-84.5432293081
HLX-7255	H7255	40	KELLI ROSE WAY	37.9709614277	-84.5443959861
HLX-7256	H7256	478	FERGUSON RD	38.1709148279	-84.3627256231
HLX-7257	H7257	3292	BRIAR HILL RD	38.0725381964	-84.4066579836
HLX-7258	H7258	3390	BRIAR HILL RD	38.0715222066	-84.4039880424
HLX-7259	H7259	3508	BRIAR HILL RD	38.0690876294	-84.3954919723
HLX-7260	H7260	109	LONETA AVE	38.0633666462	-84.4699429192
HLX-7261	H7261	190	MARKET ST	38.0494344143	-84.4960665511
HLX-7262	H7262	998	GOVERNORS LN	38.0197412841	-84.5579863905
HLX-7263	H7263	468	PARKWAY DR	38.0359422391	-84.5243439118
HLX-7264	H7264	2134	NICHOLASVILLE RD	38.0095638052	-84.5172965628
HLX-7265	H7265	2339	STERLINGTON RD	37.9935306033	-84.4641611015
HLX-7266	H7266	1852	BRYANT RD	38.0171967372	-84.4161794896
HLX-7267	H7267	701	RED MILE RD	38.0478251903	-84.523531957
HLX-7268	H7268	502	RAIN GARDEN WAY	38.0719607296	-84.5042739404
HLX-7269	H7269	519	KELLER CT	38.0722554329	-84.5043759962
HLX-7270	H7270	1012	OAK HILL DR	38.0535020351	-84.4712375559

HydrantNumber	LegacyId	Street#	Street	KAW_R_LFUCGDR1_NUM020_012519 Latitude	Longitude Page 203 of 209
HLX-7271	H7271	1101	HIGHLAND PARK DR	38.0522753041	-84.4696287604
HLX-7272	H7272	1201	HIGHLAND PARK DR	38.0516312831	-84.4687879624
HLX-7273	H7273	338	MCCONNELLS TRCE	38.0845155402	-84.5650271701
HLX-7274	H7274	275	MCCONNELLS TRCE	38.0837261142	-84.5632706134
HLX-7275	H7275	304	E NEW CIRCLE RD	38.0599103475	-84.464483037
HLX-7276	H7276	3812	CAYMAN LN	38.0202283519	-84.3744601154
HLX-7278	H7278	3872	CAYMAN HEIGHTS	38.017830514	-84.372884129
HLX-7279	H7279	2528	CAYMAN HEIGHTS	38.0173902244	-84.3735935447
HLX-7280	H7280	2580	CAYMAN HEIGHTS	38.0171914761	-84.3709399457
HLX-7281	H7281	2626	CAYMAN HEIGHTS	38.0160622093	-84.3708766719
HLX-7282	H7282	2656	CAYMAN HEIGHTS	38.015648093	-84.3724448358
HLX-7283	H7283	3701	NICHOLASVILLE RD	37.9842119293	-84.5272543923
HLX-7284	H7284	141	ROJAY DR	37.9847856587	-84.5286700491
HLX-7285	H7285	1549	N LIMESTONE	38.0649440493	-84.4703130026
HLX-7286	H7286	949	MEADOW LN	38.0518216256	-84.4654981153
HLX-7287	H7287	636	MT TABOR RD	38.1035664414	-84.5434333272
HLX-7288	H7288	2876	RIO DOSA DR	38.0086446325	-84.4454667894
HLX-7289	H7289	507	S LIMESTONE	38.1049251393	-84.5432735115
HLX-7290	H7290	543	S LIMESTONE	38.1051885426	-84.5420728431
HLX-7291	H7291	563	S LIMESTONE	38.1055325705	-84.5395854979
HLX-7294	H7294	749	W SHORT ST	38.1049428188	-84.5387929943
HLX-7298	H7298	2371	BUENA VISTA RD	38.0436631619	-84.4207052595
HLX-7299	H7299	325	MIDLAND PL	38.0427739919	-84.480642298
HLX-7310	H7310	4618	LARKHILL LN	37.9810243639	-84.4026889788
HLX-7311	H7311	4641	WILLMAN WAY	37.9819646444	-84.4020326553
HLX-7312	H7312	319	E MAXWELL ST	38.03887	-84.49621
HLX-7313	H7313	418	E MAXWELL ST	38.03815	-84.49546
HLX-7314	H7314	454	E MAXWELL ST	38.03727	-84.49445
HLX-7315	H7315	4161	VICTORIA WAY	37.96878	-84.52059
HLX-7316	H7316	767	W SHORT ST	38.0547528996	-84.5053384638
HLX-7317	H7317	753	W MAIN ST	38.05399	-84.50575
HLX-7318	H7318	721	W MAIN ST	38.05334	-84.50515
HLX-7319	H7319	4112	STARRUSH PL	37.9872294705	-84.3986603878
HLX-7320	H7320	4777	WILLMAN WAY	37.9858653736	-84.4011170151

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7321	H7321	4749	WILLMAN WAY	37.9846524436	-84.4012972719
HLX-7322	H7322	4717	WILLMAN WAY	37.9833451965	-84.3999936745
HLX-7323	H7323	4693	WILLMAN WAY	37.9822461366	-84.4000035155
HLX-7324	H7324	424	W SHORT ST	38.05007	-84.49966
HLX-7325	H7325	161	BRUCE ST	38.0521688275	-84.5005715699
HLX-7326	H7326	486	W 2ND ST	38.0536	-84.50044
HLX-7327	H7327	466	W 2ND ST	38.05283	-84.4996
HLX-7328	H7328	438	W 2ND ST	38.05206	-84.4988
HLX-7329	H7329	417	W 2ND ST	38.05134	-84.49794
HLX-7330	H7330	238	W 2ND ST	38.0498362084	-84.4963584586
HLX-7331	H7331	190	MARKET ST	38.04941	-84.49584
HLX-7332	H7332	903	MANCHESTER ST	38.05286	-84.50959
HLX-7333	H7333	949	PINE ST	38.05162	-84.50994
HLX-7334	H7334	1850	EASTLAND PKY	38.0534470007	-84.43896977
HLX-7336	H7336	1310	W MAIN ST	38.06231	-84.51867
HLX-7337	H7337	537	N BROADWAY	38.05583	-84.49026
HLX-7338	H7338	559	N BROADWAY	38.05647	-84.48928
HLX-7339	H7339	624	N BROADWAY	38.05697	-84.48842
HLX-7340	H7340	657	N BROADWAY	38.05762	-84.4877
HLX-7341	H7341	116	PENMOKEN PK	38.01665	-84.51706
HLX-7342	H7342	154	PENMOKEN PK	38.01761	-84.51997
HLX-7343	H7343	410	MORGAN AVE	38.05823	-84.46988
HLX-7344	H7344	415	MORGAN AVE	38.0578323801	-84.469486593
HLX-7345	H7345	451	MORGAN AVE	38.05667	-84.46826
HLX-7346	H7346	2444	HARRODSBURG RD	38.0175	-84.54791
HLX-7347	H7347	545	HOLLYHILL DR	38.01664	-84.53643
HLX-7348	H7348	539	HARRY ST	38.0535377352	-84.4879126367
HLX-7349	H7349	611	BELLAIRE AVE	38.05995	-84.49092
HLX-7350	H7350	701	BELLAIRE AVE	38.0606479106	-84.4899613632
HLX-7351	H7351	738	BELLAIRE AVE	38.0613834349	-84.4889380168
HLX-7352	H7352	4223	MOONCOIN WAY	37.9675	-84.5198
HLX-7353	H7353	4255	MOONCOIN WAY	37.96644	-84.52043
HLX-7354	H7354	4116	KATHERINE PL	37.96631	-84.52167
HLX-7355	H7355	4187	KATHERINE PL	37.96766	-84.52163

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7356	H7356	376	MANITOBA LN	37.96637	-84.52253
HLX-7357	H7357	114	VENICE PK	38.01842	-84.52407
HLX-7358	H7358	3751	BLUE BONNET DR	37.97311	-84.54427
HLX-7359	H7359	325	HANNA TODD PL	37.9799494733	-84.4156898889
HLX-7360	H7360	2540	SIR BARTON WAY	38.03474	-84.42201
HLX-7361	H7361	141	W LOWRY LN	38.00614	-84.51968
HLX-7362	H7362	702	FLORIDA ST	38.05667	-84.48557
HLX-7363	H7363	777	FLORIDA ST	38.0581609092	-84.4836568303
HLX-7364	H7364	429	TRANSYLVANIA PK	38.03486	-84.49846
HLX-7365	H7365	375	TRANSYLVANIA PK	38.03572	-84.49724
HLX-7366	H7366	333	TRANSYLVANIA PK	38.0367718957	-84.4957486274
HLX-7368	H7368	1603	VILLA MEDICI PASS	38.02927	-84.42843
HLX-7369	H7369	0	OLD ROSEBUD RD	38.02859	-84.42914
HLX-7370	H7370	2521	OLD ROSEBUD RD	38.02816	-84.43157
HLX-7371	H7371	949	SUGARBUSH TRL	37.991990829	-84.3976327366
HLX-7372	H7372	298	W LOUDON AVE	38.06294	-84.49135
HLX-7373	H7373	4640	LARKHILL LN	37.9807807827	-84.4016780561
HLX-7374	H7374	4771	FOXGLOVE PT	37.9812890679	-84.3991852258
HLX-7375	H7375	4101	RUSSELL CAVE RD	38.1299	-84.43146
HLX-7376	H7376	101	S YARNALLTON PIKE	38.11017	-84.58348
HLX-7377	H7377	3908	RUSSELL CAVE RD	38.12818	-84.43415
HLX-7378	H7378	3919	KENNY LN	38.11976	-84.42064
HLX-7379	H7379	3050	LAKECREST CIR	38.01639	-84.55339
HLX-7380	H7380	4254	KATHERINE PL	37.96666	-84.52252
HLX-7381	H7381	453	MANITOBA LN	38.0984336005	-84.5333792137
HLX-7382	H7382	4288	RIDGEWATER DR	38.0989031411	-84.5348956714
HLX-7383	H7383	4328	RIDGEWATER DR	38.0993938722	-84.5364738784
HLX-7384	H7384	4154	NEEDLERUSH DR	37.9816965448	-84.3981100654
HLX-7385	H7385	7037	RICHMOND RD	37.9252492849	-84.3730010106
HLX-7390	H7390	4501	GEORGETOWN RD	38.15169476	-84.54419605
HLX-7391	H7391	711	MILES POINT WAY	38.06757	-84.55665
HLX-7392	H7392	709	MILES POINT WAY	38.0677278	-84.55566946
HLX-7393	H7393	2922	EMINENT DR	38.10423724	-84.53582361
HLX-7394	H7394	4263	BETHEL RD	38.12209236	-84.58237603

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7395	H7395	4699	BETHEL RD	38.13266292	-84.58438853
HLX-7396	H7396	1032	FALCON WOOD WAY	38.13287015	-84.58235721
HLX-7398	H7398	3271	GEORGETOWN RD	38.11951953	-84.52264169
HLX-7400	H7400	0	LISLE RD	38.15672019	-84.54470308
HLX-7402	H7402	150	SHORESIDE DR	37.9913389895	-84.4370870718
HLX-7403	H7403	1730	AMETHYST WAY	38.01982162	-84.3920622
HLX-7404	H7404	1753	AMETHYST WAY	38.0998054811	-84.5261224413
HLX-7405	H7405	3502	TRANQUILITY PT	38.0998249864	-84.5251921802
HLX-7406	H7406	4001	MOONCOIN WAY	38.0990801369	-84.5248333571
HLX-7407	H7407	3601	POLO CLUB BLVD	38.1023455419	-84.521221968
HLX-7408	H7408	1154	PASSAGE MOUND WAY	38.1014691759	-84.5216776779
HLX-7409	H7409	501	PLUNKETT ST	38.1004365176	-84.5217412086
HLX-7410	H7410	1790	VENDOR WAY	38.1036882369	-84.5222692994
HLX-7411	H7411	1790	VENDOR WAY	38.1011573864	-84.5229120215
HLX-7412	H7412	1780	VENDOR WAY	38.098961336	-84.5141215807
HLX-7413	H7413	4216	NEWTOWN PIKE	38.1014696615	-84.514811626
HLX-7414	H7414	4068	NEWTOWN PIKE	38.15358129	-84.48955817
HLX-7417	H7417	480	S ASHLAND AVE	38.02891395	-84.49254341
HLX-7419	H7419	1088	KAVENAUGH LN	38.0057539357	-84.4092261323
HLX-7420	H7420	1196	AUTUMN RIDGE DR	38.00684472	-84.4082095
HLX-7421	H7421	3346	LAWSON LN	38.00619902	-84.40968868
HLX-7422	H7422	4262	STARRUSH PL	37.9825091772	-84.3977099639
HLX-7423	H7423	4680	LARKHILL LN	37.9799098983	-84.400415756
HLX-7424	H7424	4698	LARKHILL LN	37.9800667476	-84.3994347131
HLX-7425	H7425	432	LARKHILL CV	37.9804484971	-84.398007344
HLX-7427	H7427	1042	HADDRELL PT	38.0988356897	-84.5198350294
HLX-7428	H7428	2437	PATCHEN WILKES DR	38.0984848353	-84.5191000745
HLX-7429	H7429	1843	BATTERY ST	38.0370528	-84.44275596
HLX-7430	H7430	439	CARLISLE AVE	38.05552703	-84.47012446
HLX-7431	H7431	1842	RACHELS RUN	38.02139923	-84.39273262
HLX-7432	H7432	3285	TRANQUILITY PT	38.02299155	-84.39263058
HLX-7433	H7433	2935	OUR TIBBS TRL	38.10249063	-84.53535389
HLX-7434	H7434	0	TIBBS TRL	38.1085359345	-84.5169348499
HLX-7436	H7436	308	MARIEMONT DR	38.06495741	-84.45827391

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7437	H7437	3039	LAKECREST CIR	38.01490435	-84.55310159
HLX-7440	H7440	922	CITATION BLVD	38.09338553	-84.50329055
HLX-7448	H7448	4174	BRIDGE WATER WAY	37.9870764208	-84.4134587747
HLX-7449	H7449	4198	BRIDGE WATER WAY	37.9877099815	-84.4141924495
HLX-7450	H7450	1050	MARCO LN	38.00506434	-84.40846325
HLX-7451	H7451	1177	AUTUMN RIDGE DR	38.1033582815	-84.5206957564
HLX-7452	H7452	1144	AUTUMN RIDGE DR	38.1042339279	-84.5202518683
HLX-7454	H7454	342	MANITOBA LN	38.0996747436	-84.5210157184
HLX-7455	H7455	284	MANITOBA LN	38.1046906927	-84.5146230113
HLX-7456	H7456	252	MANITOBA LN	37.9684089	-84.52686122
HLX-7459	H7459		VISTA ST	38.02387	-84.52654
HLX-7469	H7469	582	LUCILLE DR	38.1008871773	-84.4173433945
HLX-7470	H7470	2759	MAGNOLIA SPRINGS	38.1025195986	-84.4148660997
HLX-7471	H7471	270	MAGNOLIA SPRINGS	38.101473085	-84.3823946136
HLX-7435		1146	MONARCH ST	38.01853	-84.5581586
HLX-11580		1376	SILVER SPRINGS DR	38.0827287	-84.4816368
HLX-11579		1376	SILVER SPRINGS DR	38.0829707	-84.4824589
HLX-11181		201	AVENUE OF CHAMPIONS	38.0391784	-84.4991464
HLX-11688			ASH GROVE PK	37.9382253	-84.4818907
HLX-100	H100	524	W THIRD ST	38.0558493	-84.4995122
HLX-1038	H1038		EASTLAND PKWY	38.0505367	-84.4445517
HLX-1135	H1135		OLD DOBBIN RD	38.0096159	-84.4962026
HLX-1179	H1179	3307	TATES CREEK RD	37.9970765	-84.4958755
HLX-1590	H1590	387	MANHATTAN DR	38.0622938	-84.4585251
HLX-1730	H1730	3057	MONTAVESTA RD	38.0039946	-84.4932647
HLX-211	H211	100	E MAIN ST	38.0460429	-84.4968272
HLX-2354	H2354	3270	PIMILICO PKWY	37.9900514	-84.4695351
HLX-2686	H2686	3283	CORNWALL DR	37.9967152	-84.5570903
HLX-2692	H2692	619	WORCESTER RD	37.9936815	-84.5475126
HLX-2795	H2795	396	REDDING RD	37.9883101	-84.5043173
HLX-2927	H2927	724	CHERYL LN	38.0301032	-84.532435
HLX-2958	H2958	826	CHERYL LN	38.0327445	-84.5366987
HLX-3357	H3357	1	DEEPWOOD DR	38.0689184	-84.4643327
HLX-350	H350	800	DE ROODE ST	38.0491556	-84.5119169

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-3509	H3509	3579	SALISBURY DR	38.0422541	-84.6323466
HLX-3510	H3510	2659	SUSSEX DR	38.0456084	-84.6302911
HLX-3511	H3511	3736	GLOUCESTER DR	38.0462348	-84.6281202
HLX-3512	H3512	2555	WESTMORLAND DR	38.0475139	-84.6318061
HLX-3513	H3513	2621	WESTMORLAND DR	38.045564	-84.6336178
HLX-3515	H3515	3753	SALISBURY DR	38.0438518	-84.6322132
HLX-3588	H3588	3439	HUFFMAN MILL PK	38.1272995	-84.449019
HLX-3970	H3970	251	PRICE RD	38.0637766	-84.5141126
HLX-4101	H4101	400	PASADENA DR	38.0074096	-84.5299762
HLX-4198	H4198	1079	TRENT BLVD	37.9732455	-84.4932049
HLX-4383	H4383	2550	PARIS PK	38.0840642	-84.4414592
HLX-4470	H4470		LEESTOWN RD	38.0775585	-84.5419286
HLX-4551	H4551	3429	SMOKY MOUNTAIN DR	37.976447	-84.453996
HLX-4755	H4755		TRENT BLVD	37.9674432	-84.477937
HLX-4962	H4962	4737	INMAN DR	37.9934307	-84.5957041
HLX-5215	H5215	2200	TERRACE WOODS CT	38.007088	-84.5757135
HLX-5308	H5308	2625	ASHBROOKE DR	37.9887613	-84.5992979
HLX-5514	H5514	2496	SUNGALE CT	37.9951557	-84.5883068
HLX-5641	H5641J		W HICKMAN TREATMENT PLNT	37.9455056	-84.4988104
HLX-5717	H5717	372	SHORESIDE DR	37.9900023	-84.4380969
HLX-2932	H5932	2020	CORIANDER LN	38.0491973	-84.4285465
HLX-6152	H6152	4385	BROOKRIDGE DR	37.9611882	-84.51833
HLX-6546	H6546	3957	WINTHROP DR	37.9678671	-84.5450856
HLX-6933	H6933	990	STAR SHOOT PKWY	38.0220378	-84.4274837
HLX-7277	H7277	3848	CAYMAN LN	38.0191366	-84.3732121
HLX-7295	H7295	504	LUCILLE DR	38.0932302	-84.5392144
HLX-7296	H7296	540	LUCILLE DR	38.0934057	-84.5380013
HLX-7297	H7297		FAYETTE PARK	38.0564168	-84.4915048
HLX-7300	H7300	221	W FIFTH ST	38.0537742	-84.4898541
HLX-7301	H7301	1810	FALLING LEAVES LN	38.0140362	-84.3980536
HLX-7302	H7302	1850	FALLING LEAVES LN	38.0149121	-84.3969873
HLX-7303	H7303	1910	FALLING LEAVES LN	38.0162998	-84.3948803
HLX-7304	H7304	3716	SUNFLOWER ST	38.0172263	-84.3953873
HLX-7305	H7305	1993	FALLING LEAVES LN	38.0159164	-84.3935657

HydrantNumber	LegacyId	Street#	Street	Latitude	Longitude
HLX-7306	H7306	2037	FALLING LEAVES LN	38.0150109	-84.3947835
HLX-7307	H7307	2081	FALLING LEAVES LN	38.0144543	-84.3962237
HLX-7308	H7308	3029	FALLING LEAVES LN	38.0132933	-84.3974551
HLX-7309	H7309	319	HANOVER CT	38.0382488	-84.4768869
HLX-7397	H7397	1200	FALCON WOOD WAY	38.1370527	-84.5788223
HLX-745	H745	738	TREMONT AVE	38.0269004	-84.4945186
HLX-7460	H7460		TRACERY OAKS DR	37.9943618	-84.5833755
HLX-7461	H7461	2216	STRASBURG PARK	37.9933238	-84.5837406
HLX-7462	H7462	2328	ARMATURE CT	37.992503	-84.5840144
HLX-7486	H7486	1114	HENDERSON DR	37.951687	-84.5074653
HLX-7487	H7487	1084	HENDERSON DR	37.9521949	-84.5087013
HLX-7488	H7488	1056	HENDERSON DR	37.9526953	-84.5099169
HLX-7489	H7489	175	ASH RAPIDS	38.0870863	-84.5570547
HLX-7493	H7493	2621	OLD ROSE BUD PL	38.0290336	-84.4267047
HLX-7518	H7518	2611	LUCCA PL	38.0297399	-84.4273893
HLX-7535	H7535	1677	VILLA MEDICI PASS	38.033097	-84.4296296
HLX-7536	H7536	1649	VILLA MEDICI PASS	38.0312782	-84.4289199
HLX-7537	H7537	1631	VILLA MEDICI PASS	38.0304454	-84.4287029
HLX-77	H77	237	N LIMESTONE	38.049044	-84.4934768

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

- 21.** Please detail the administrative cost component attributable to public fire protection, and provide any applicable work papers showing how the cost component is calculated.

Response:

The detail of administrative costs allocated to public fire protection is shown on Schedule D, pages 10 and 11 of the cost of service study, column 10. The costs are derived by applying the allocation factor referenced in column 2 to the cost of service shown in column 3. The calculation of the allocation factors is provided in Schedule C of the study.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill, Constance E. Heppenstall

- 22.** What is the cost to KAWC (per unit) to acquire each type of fire hydrant?
- (a) Would the creation of a tariff under which a public utility owned its fire hydrants result in a reduction in the existing public fire hydrant tariff?
 - (b) Why or why not?

Response:

KAWC purchases four types of hydrants. The uninstalled cost for just the hydrant ranges between \$878.6 to \$1,003.00. The use of each type of hydrant is determined by the location that the hydrant will be installed. The overall material costs for the installation of a fire hydrant is typically around \$2,000 which includes the hydrant, necessary hydrant valve and other ancillary material.

- (a) KAW is unable to speculate on the effect on existing public fire hydrant tariffs of the creation of a tariff as described in the request.
- (b) Many factors go into determining the allocation of revenue requirements in a cost of service study for each customer class (of which public fire is one) that may or may not change depending on the ownership structure of the hydrants or any of the assets providing service.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 23.** How many additional new fire hydrants does KAWC anticipate being installed in Fayette County over the next 5 years for which Lexington would be billed? Please net out any hydrants that would be removed from the system as part of this calculation.

Response:

Kentucky American Water projects the number of hydrants to be installed in the system based on historical trends and an estimate of the amount of development activity that may occur. The Company does not project the number of hydrants that are projected to be installed by county or type during the five-year period. All new hydrant installations are currently projected in the Central Division as a whole.

2019 – 53 new hydrants
2020 – 54 new hydrants
2021 – 56 new hydrants
2022 – 57 new hydrants
2023 – 57 new hydrants

At this time, KAWC does not forecast the number of hydrants that will be removed due to the uncertainty of the factors that leads to the removal of a hydrant.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 24.** Will KAWC's proposed capital expenditures under the QIP extend to every customer class? Please identify each class and describe the anticipated replacements and/or upgrades.

Response:

Yes, it is proposed to extend to all customer classes. Please refer to Brent O'Neill's testimony and attachments for anticipated replacements and/or upgrades.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 25.** Does KAWC have any plans to make significant capital investments to public fire protection facilities under the (QIP)? Please describe any and all efforts by KAWC to improve public fire protection service.

Response:

The main emphasis for the proposed QIP is the accelerated replacement of 313.5 miles of cast iron and galvanized steel main over the next 25 years. The replacement of these material types will allow the Company to address underperforming mains that impact the available fire flow in the areas currently being served by them. The work to replace the water mains may include the replacement of existing hydrants at the time of the project. The types of mains and infrastructure that are targeted for this program are traditionally items that have reached their useful life expectancy or have developed problems that affect the ability to meet the service expectations of the customers. A majority of this infrastructure was installed during a period where the expectations or requirements for fire service were minimal.

KAW believes that the replacement of main under the QIP will strengthen and enhance available fire flows in area surrounding the replaced main. The replacement of the infrastructure through the QIP program allows the Company to ensure that areas of the system are made more robust and are more resilient and able to provide needed fire flow.

KAW currently reviews the performance of its distribution system and analyzes it to ensure it is able to meet the service expectations of the customers and provide adequate fire protection. If a portion of the main is unable to meet these metrics, then KAW develops initiatives to address it. In most cases, this involves replacing existing small diameter main with larger diameter main. In addition, KAW reviews the need for interconnection of mains to ensure that the system is robust and resilient.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

26. Will the QIP tariff apply to all customer classes?

Response:

The QIP tariff will apply to all customers taking service under rates for residential, commercial, industrial, public authority, sale for resale, private and public fire services and hydrants.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

27. Please explain in detail KAWC's current policies, procedures, practices, and/or guidelines for testing, maintaining and/or replacing fire hydrants in Fayette County and provide copies of the same.

Response:

Kentucky American Water has an annual program to inspect every hydrant in the system and record flow data except during periods of extreme drought or other weather conditions that would impede the flow testing process.

During inspection, the caps are opened and the hydrant is flowed at a low amount. The hydrant is then shut, caps replaced, and the hydrant is opened to full pressure to show any leaks. The hydrant is then shut and visually inspected.

During a hydrant flow test, each hydrant is opened and flowed at full flow for at least two minutes. The static pressure, flow rate, and residual pressures are noted. The hydrant is then inspected and all outlets are inspected. If further maintenance is required based on either inspection, the hydrant is removed from service and repaired. Some minor repairs can be done by field service personnel at the time of the inspection with the hydrant in place. Other repairs require physical removal of the hydrant that are scheduled and performed in the field. Generally, a hydrant is replaced if it requires more extensive repairs than those that can be done in the field.

The fire hydrant maintenance procedures are attached. They are confidential and are subject to a petition for confidential treatment.

**ATTACHMENT TO KAW_R_LFUCGDR1_NUM027_012519
FILED UNDER SEAL PURSUANT TO THE PETITION FOR
CONFIDENTIAL TREATMENT FILED ON
JANUARY 25, 2019**

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 28.** Please describe in detail all inspections, maintenance, or testing that must be performed by KAWC on each type of fire hydrant to ensure that it operates properly, and provide a list breaking down each of the components of the above and its cost, as well as how frequently each of the above must be performed, or actually is performed. Also describe in detail all maintenance that must be performed by KAWC on the public fire system to ensure that it operates properly. Please explain how KAWC maintains any such records.

Response:

See the response to Item 27 of this same data request. KAWC maintains hydrant information in our SAP data management system. At present, KAWC does not break down the costs to perform each activity required to inspect, maintain and test hydrants. Maintenance work is generally performed by individuals in the field operations department, although large scale re-painting is generally performed by external contract vendors.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin Rogers

- 29.** Please provide the standard(s) that KAWC is using to determine that a fire hydrant is leaking, failed or obsolete. If a hydrant is identified in such a condition, is it still billed to the customer, or is immediately removed from future billing until corrected?

Response:

Fire hydrants are inspected annually. Should a functional problem occur and be discovered during an inspection, the fire hydrant will be repaired immediately by the inspector, or referred to maintenance for prompt repair. Because of the critical nature of fire protection, KAW gives a priority to hydrant repair. Should there be a functional problem found outside of routine inspections, the fire hydrant would be repaired promptly, normally within 48 hours. All fire hydrants can be partially or fully replaced using replacement parts; there is no set standard for replacement other than visually inspecting and operating to determine deficiencies.

Due to immediate action being taken on repairs or replacement of hydrants, service interruptions rarely last more than a few hours and billing is not interrupted. Even with total replacement, the installation of a new hydrant is normally done the same day the old hydrant is taken out of service. Therefore, there is rarely a period when a fire hydrant is not in service. Hydrants are generally kept in service if at all possible.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 30.** Is there a minimum flow rate at which KAWC deems a fire hydrant not to be useful? What if anything, is done with respect to such hydrants, when they are identified? If there is a difference in how different types of hydrants are treated, please explain.

Response:

KAW will not generally install a hydrant unless it is going to be attached to at least a six-inch main and flow at least 250 gallons per minute (gpm). For hydrants that flow less than 500 gpm, KAW will paint the caps red to indicate a low-flow hydrant. For existing hydrants, KAW believes that any flow is useful for flushing purposes. Generally, KAW would expect that local fire officials request removal of any hydrants they do not consider useful, whether for either low flow or other reasons.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 31.** Does KAWC require its privately-owned fire hydrant or service customers to provide any evidence or documentation that such systems are being adequately maintained, inspected, or tested on regular basis, or does KAWC ever perform any testing? Please explain.
- (a) What, if anything, does KAWC do if it comes to its attention that a privately owned fire hydrant is no longer operable?

Response:

It is the responsibility of the property owner to maintain, inspect and test privately-owned fire hydrants on a regular basis, subject to the requirements of the respective fire department, state fire marshal, building codes and the property owner's insurance providers. KAWC does not require customers to provide documentation of maintenance or inspections.

- (a) If KAWC learns that a privately-owned fire hydrant is no longer operable and no other service is connected to the line, KAWC may shut off the service and cease billing, subject to attempts to resolve the issue with the customer.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 32.** Would KAWC object to the PSC implementing additional minimum requirements with respect to maintenance, performance, or operational standards for all fire hydrants in Fayette County? Please provide a detailed response.
- (a) Does your answer differ depending upon the type of hydrant involved (public, private, and privately owned)? If so, please explain why.

Response:

No, not as long as KAWC has an opportunity to participate in the process and is given consideration regarding recovery of any increased maintenance cost associated with any proposed requirements.

- (a) No.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 33.** Are all privately-owned water lines metered at some point? If not, please explain how a determination is made with respect to whether such a line is metered.

Response:

No. KAW allows privately-owned fire service lines that are less than 150 feet in length. These connections do not have a meter for water usage, but will have either a detector check assembly or a double detector check assembly that includes a by-pass meter that indicates flow has occurred in the fire service line. Neither assembly measures the amount of water used. If usage is detected on the fire service line through the detector check for two consecutive months, KAWC notifies the customer for consideration of the installation of a meter on the line.

Beginning in 2006, KAW required that service lines serving multiple buildings or fire service lines cannot be any longer than 150 feet between the point of connection with the distribution system and the location of the meter or detector check assembly. If the installation of the meter or detector check assembly cannot occur within the 150 feet, then the developer of the property is required to install public main within the property that KAW installs, owns and maintains through an easement. This was implemented to help reduce the amount of unaccounted-for-water.

For several years prior to that, KAW allowed water lines for private property to connect to the KAW distribution system through either an unmetered "Multiple Service Connection Agreement" or a "Special Connection Agreement." Through the use of these agreements, the Company provided individual meters connected to the privately owned system that allowed multiple commercial or residential customers to use private main located on private property. The meters are then read by KAW. KAW no longer offers this arrangement but still has a number of these historic agreements in place that have been grandfathered in. This was used at places like the University of Kentucky, large commercial malls or shopping centers, and some large apartment complexes.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 34.** Please refer to KAWC Tariff "Classification of Service – Service Classification No. 4."
- (a) How many customers have meters installed by KAWC because of suspicion of usage other than fire extinguishment? Does LFUCG have any of its accounts for First Service with such a meter? If so, please identify the account location and number.
 - (b) How many "special connections" with service contracts does KAWC have? Does LFUCG have any of its accounts serviced through such a contract? If so, please attach a copy of each such contract.

Response:

- (a) The Company has detector meters installed on almost all fire service lines. The installation of these isn't based on suspicion, it is based on the Company's efforts to identify water usage at private fire service lines and to prevent unaccounted for water.
- (b) There are 2,457 special connections with service contracts on file. LFUCG has 47 accounts with service contracts. Attached please find a sampling of those 47 agreements.

LOCAL COPY

FORM 78

Application for Special Connection

3779376

This Application made in triplicate this 1st day of March, 1983,
Lexington-Fayette Urban (a corporation of the State of Kentucky),
(Applicant) County Government
hereinafter called the "Applicant", to the Kentucky-American Water Company
(Water Company)
(a corporation of the State of Kentucky), doing business in the City
of Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a six inch service pipe connected to the street main of the Water Company on Water Street between Quality Court 1/1st Street and Ayres Alley 1/1st Street in the City of Lexington

for the purpose of attaching to said service pipe the following fixtures and openings:
A six-inch service line, detector check valve with by-pass meter, post indicator, and all related control valves and fittings to supply a sprinkler system of approximately 1,100 sprinkler heads covering approximately 110,500 square feet of office building space.

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this application, and to pay the Water Company for service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it shall have the right to attach any testing device or use any means which it may elect to ascertain the condition of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the (curb) 1/1st line shall be installed and maintained by and at the expense of the applicant.

Third: That a detector device may be required on said service at such location as may be determined by the Water Company. Such detector device shall be installed and maintained by and at the expense of the applicant; all other pipe fixtures and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if required, shall be constructed and maintained by and at the expense of the applicant. The vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times of fire, when it shall be under the control of the Chief of the Fire Department of said City of Lexington and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at times of fire on said premises, such supply of water as shall then be available and no other or greater. That the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons.

✓

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant has hereunto signed _____ name _____ the day and year first above written.

WITNESS: [Signature]

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
[Signature]
(Applicant)

WITNESS: [Signature]

APPROVED
LEXINGTON FIRE DEPARTMENT
[Signature]
(Chief of Fire Department)
City of Lexington

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this 1st day of March 1983

WITNESS: [Signature]

[Signature]
Operations (Manager)
[Signature]
(Water Company)
President
Vice-President

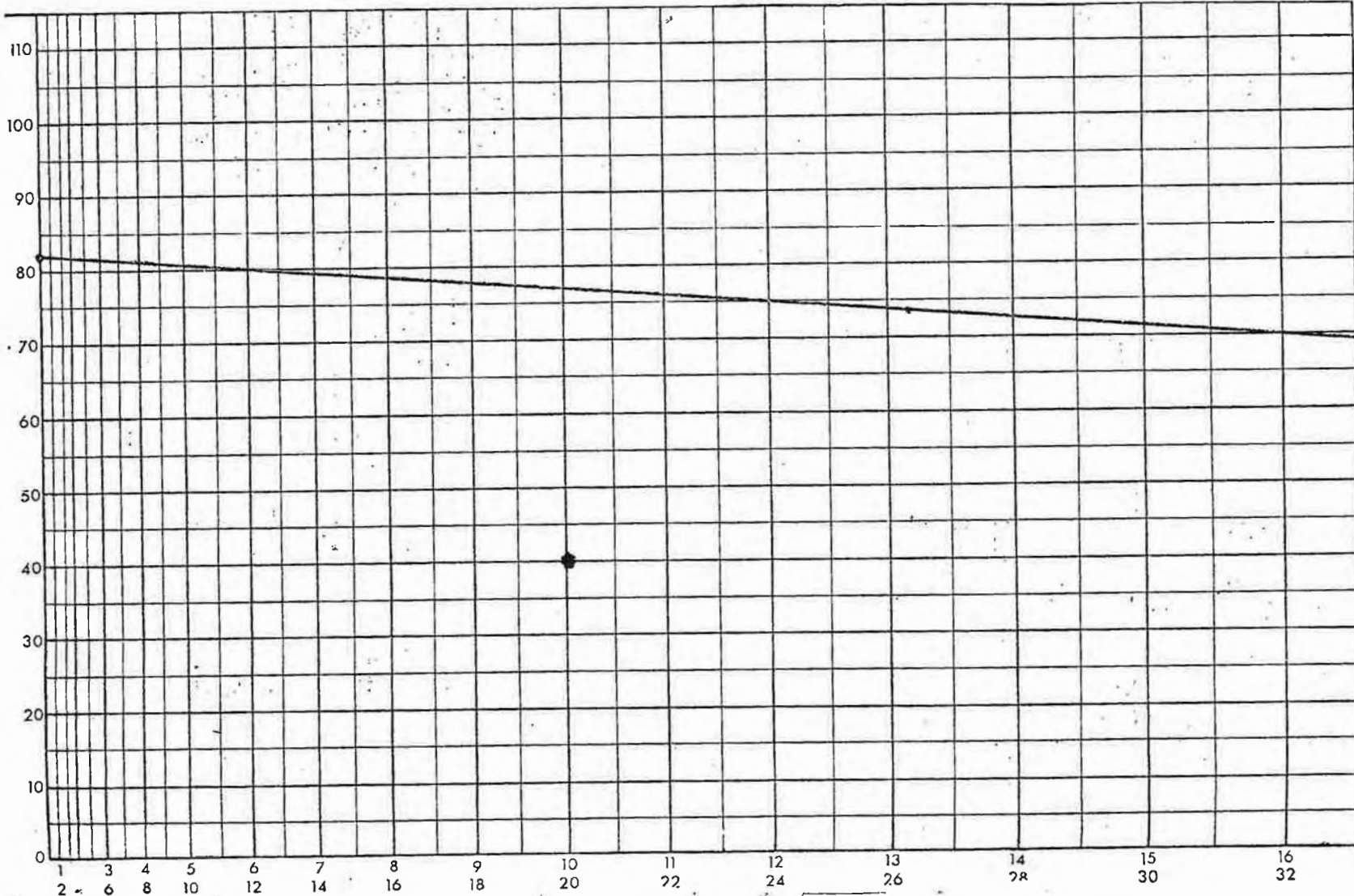
WITNESS: [Signature]

LOCATION Water St. between
Rose & Limestone St.
 POINT "A" RES. HYDT. NO. 2176
 STATIC PRESSURE: 82 P.S.I.
 RESIDUAL PRESSURE: 74 P.S.I.

KENTUCKY-AMERICAN WATER COMPANY
 FLOW TEST

DATE: 12-3-82
 TIME: 8:40 AM
 POINT "B" FLOW HYDT. NO. 2175
 STATIC PRESS: 80 P.S.I.
 PITOT PRESS: 62 P.S.I.
 FLOW: 1320 G.P.M.

STATIC PRESSURE - LBS. PER SQ. IN.
 AT POINT "A" RES. HYDT. NO. 2176

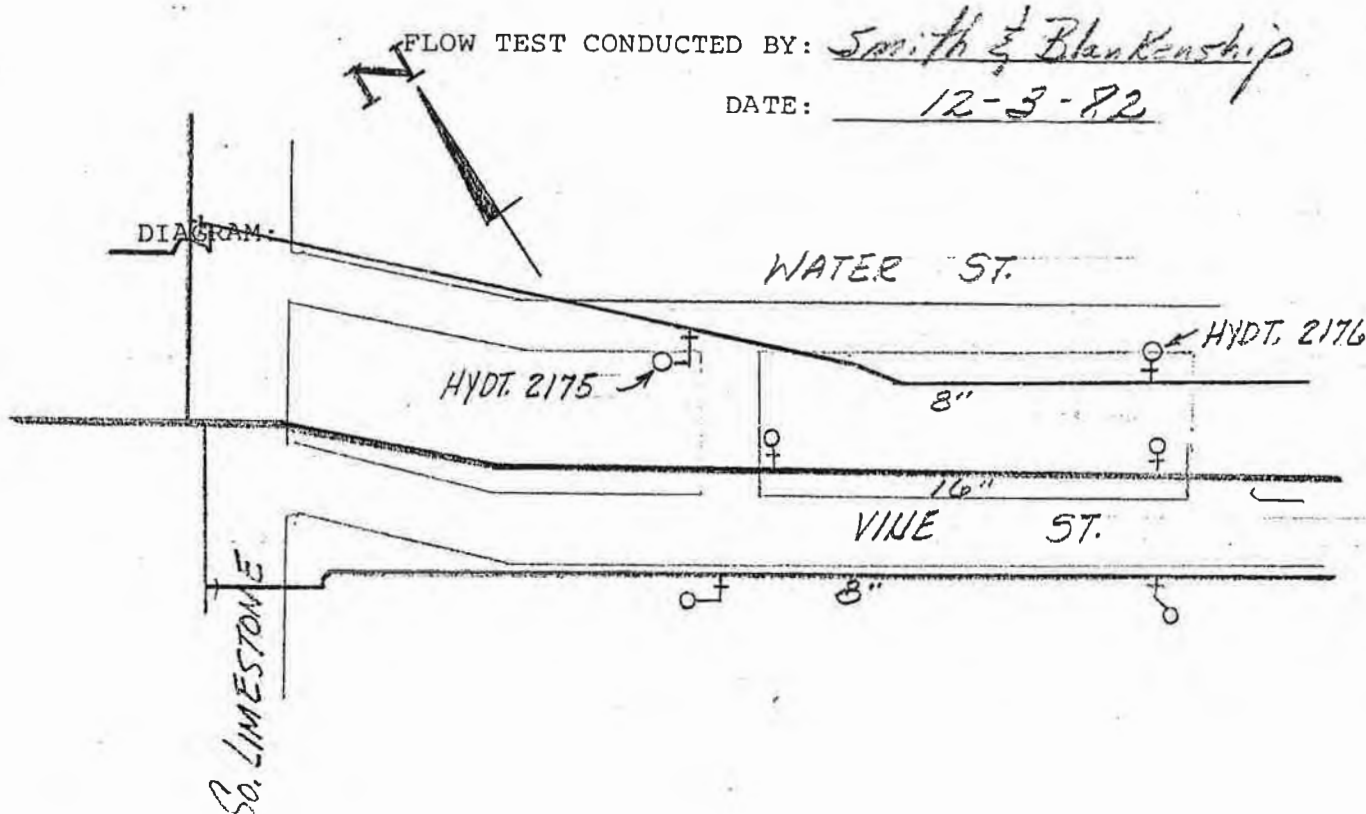


FLOW-100 GALS. PER MIN.
 AT POINT "B" FLOW HYDT. NO. 2175

A flow test was made in the following manner:

Hydrant # 2176 on Water Street was selected as the residual hydrant (.A). Hydrant # 2175 on Water Street was selected as the flow hydrant (.B). Static pressure at .A was 82 p.s.i. before the flow test. Static pressure at .B was 80 p.s.i. before the flow test. With the hydrant at .B flowing, residual pressure at .A was 74 lbs. Pitot pressure at .B was 62 lbs. Actual flow at .B was 1320 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 82 lbs. and the static pressure at .B was 81 lbs. This flow test was made using one 2½" outlet at Hydrant # 2175.

FLOW TEST CONDUCTED BY: Smith & Blankenship
DATE: 12-3-82



KENTUCKY - AMERICAN WATER COMPANY
DATA SHEET FOR PROPOSED FIRE
SERVICE INSTALLATION

INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant Urban County Government Building

Address: 200 East Main Street, Lexington, Kentucky 40507

Phone: 255-5631 Date service requested as soon as possible

So that we may further process the proposed fire service installation you have requested, we will require the following information:

1. The building to be served by this fire service will be used as:
Office Building
 2. The building will be constructed of concrete
 3. The building will have a roof constructed of concrete and built up roof
 4. There will be 1100 sprinkler heads in the building.
 5. There will be 0 hydrants in or surrounding the building.
 6. There will be 13 hose closets in the building.
 7. Fire Pump Data: 500 Maximum g.p.m. at 100 total head.
 8. The maximum height of the sprinkler heads above ground level will be 140'.
 9. Fire flow requirements 1000 g.p.m. at 40 p.s.i. residual pressure at the vault or service connection to Water Company main.
As required by: Factory Insurance Association
Factory Mutual
Kentucky Inspection Bureau Other
 10. There will be 110,500 square feet sprinkled.
 11. There will be 14 floors in the structure to be protected.
 12. Name or Company for which contracts are to be prepared: _____
Lex.Fayette Urban Co. Government . Incorporated in the State of Ky.
 13. Contracts to be sent to: Attn: Jim Preston, Const. Mgr. Office of Mayor
whose address is 200 East Main Street, Lexington, Ky. 40507 for signatures.
 14. Fire service size 6" inch. no domestic
- By: Robert Dooley Date: 1/20/83

*COST OF FIRE SERVICE PAID BY LEXINGTON FIRE PROTECTION



Lexington Fire Protection Co., Inc.

AUTOMATIC SPRINKLER CONTRACTORS

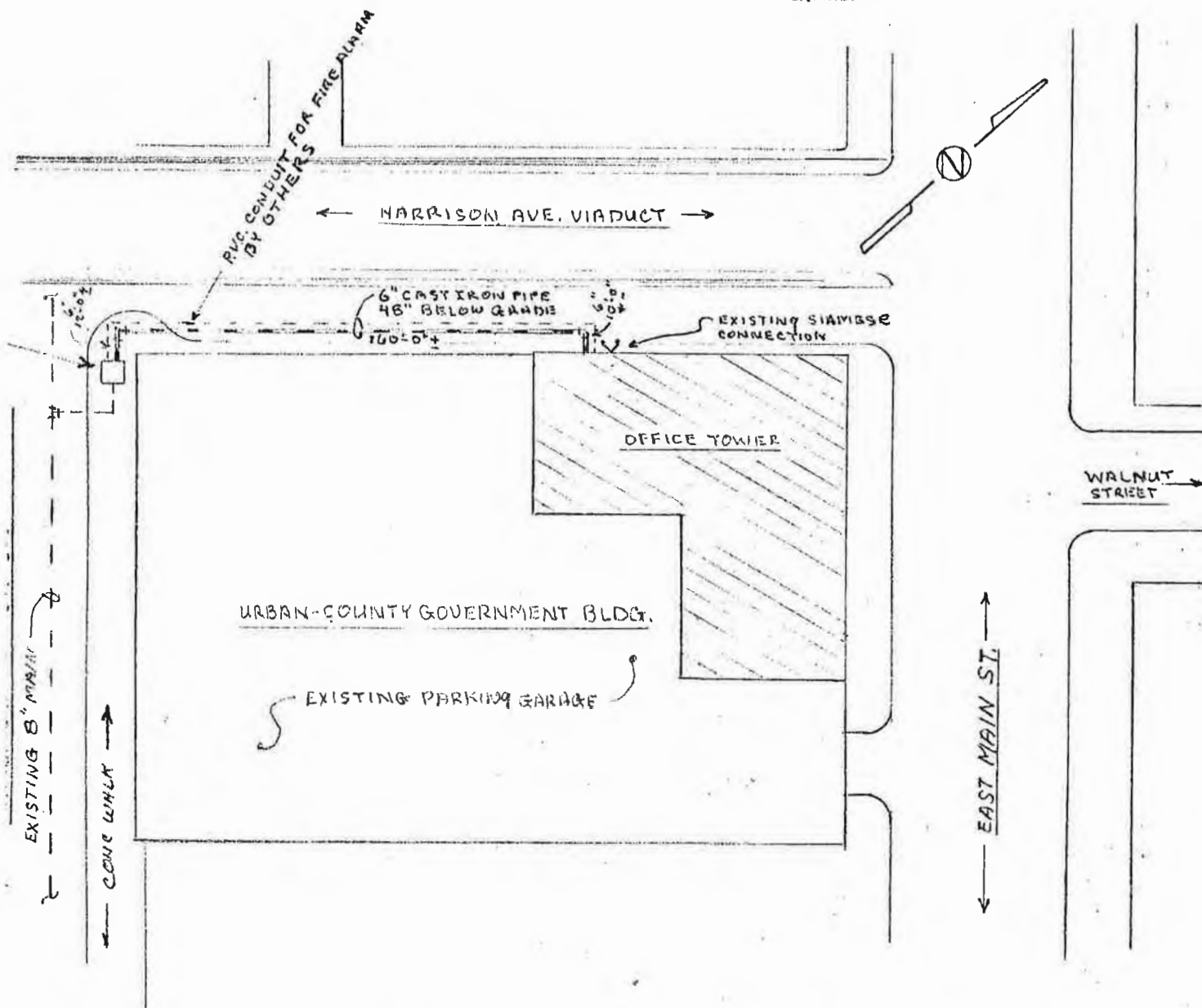
PHONE (606) 233-4210 729 BELLAIRE AVENUE LEXINGTON, KENTUCKY 40508



URBAN-COUNTY GOVERNMENT BLDG.

200 EAST MAIN STREET
LEXINGTON, KENTUCKY

DATE 1/20/83
SCALE 1" = 50'-0"
BY G.W.F.S.



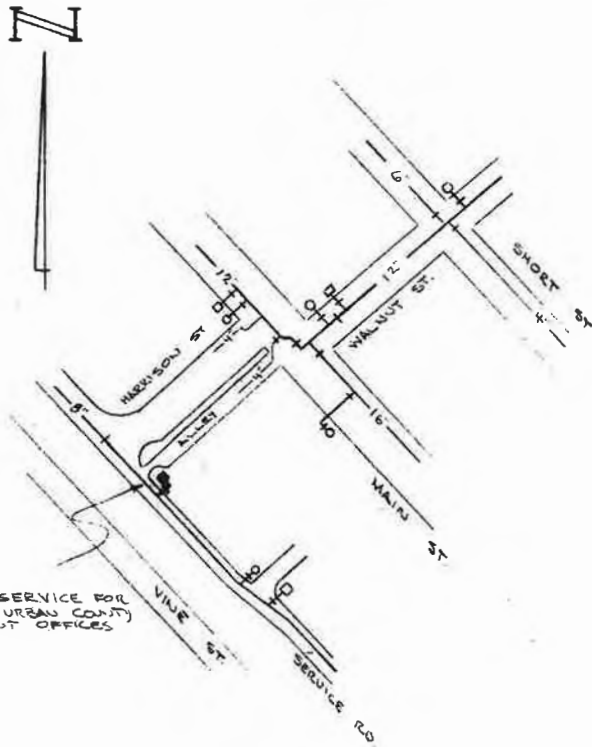
FORM 694
1224
REV. 01-80

WORK ORDER SKETCH

PROPOSED
COMPLETION
WORK ORDER NO. A5166

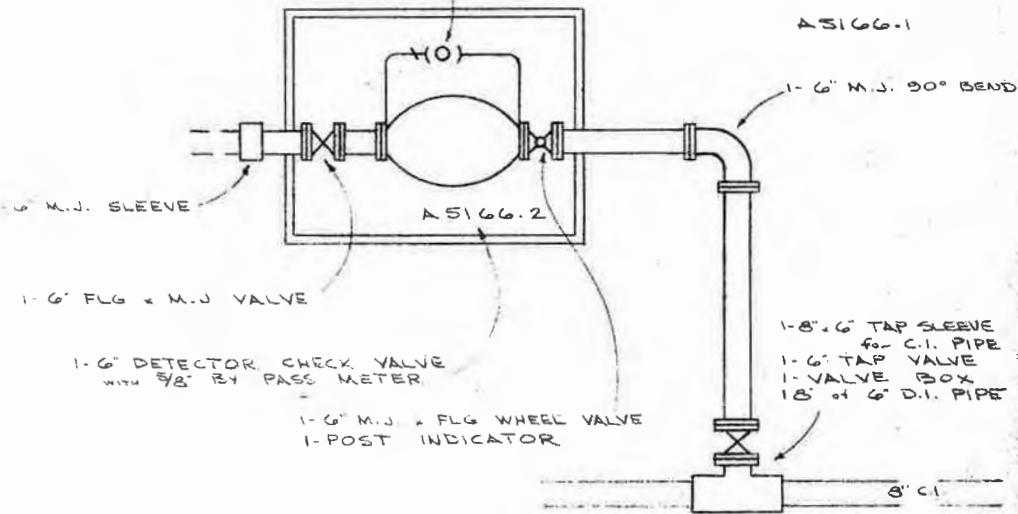
KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY
 NAME OF COMPANY _____ SUB-DIVISION _____
 MAP NO. 128-106 MAP COORDINATES _____ TAX DISTRICT LEX FAY FULL
 CUSTOMER RELATIONS _____ DATE COMPLETED _____
 MGR. _____ 10 _____ DATE RETIRED _____
 SCALE 1"=300' DRAWN BY J. JICE
 SHEET 1 of 1 INSPECTOR _____

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
 PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
 OVERALL LENGTH OF MAINS INSTALLED 18' SIZE 6" AND KIND OF PIPE D.I.
 OVERALL LENGTH OF MAINS REMOVED ABANDONED SIZE _____ AND KIND OF PIPE _____
 REMARKS _____ RELATED INVESTMENT OR RETIREMENT _____ WORK ORDER NO. N/A



INSTALL
6" FIRE SERVICE FOR
LEX FAY URBAN COUNTY
GOVERNMENT OFFICES

- 2 - 1 1/2" x 3/4" BUSHINGS
- 4 - 3/4" BRASS NIPPLES
- 3 - 3/4" BRASS 90° ELLS
- 1 - 3/4" HORIZ. CHECK VALVE
- 2 - 3/4" COPPER TO IRON
- 4 - 3/4" COPPER TUBING
- 1 - 2/4" V82/10 SETTER



LOCAL COPY

A5483

Service No. 70225⁷³²

FORM 79

Application for Special Connection

3772446

3772446

This Application made in triplicate this 9th day of January, 1985,
 by Lexington-Fayette Urban County (a corporation of the State of Kentucky),
 Government (Applicant)
 hereinafter called the "Applicant", to the Kentucky-American Water Company
 (Water Company)
 (a corporation of the State of Kentucky), doing business in the City
 of Lexington, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company
 for a four inch service pipe connected to the street main of the Water Company
 on West Short Street between North Broadway Street and
North Hill Street in the City of Lexington

for the purpose of attaching to said service pipe the following fixtures and openings:
 a four inch service line, detector check valve w/by-pass meter,
post indicator and all related control valves and fittings to
supply a sprinkler system of approximately 68 sprinkler heads
covering approximately 6,855 sq. ft. of Victorian Square Parking
Garage space
 all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street
 on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this applica-
 tion, and to pay the Water Company for service at the schedule of rates in effect from time to time during the
 rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are
 as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the
 Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it
 shall have the right to attach any testing device or use any means which it may elect to ascertain the condition
 of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the (curb)(property) line shall be installed
 and maintained ~~by~~ and at the expense of applicant.

Third: That a detector device may be required on said service at such location as may be determined
 by the Water Company. Such detector device shall be installed and maintained ~~by~~ and at the expense of the
applicant; all other pipe fixtures and appurtenances shall be constructed and
 maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if
 required, shall be constructed and maintained ~~by~~ and at the expense of the applicant. The
 vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times
 of fire, when it shall be under the control of the Chief of the Fire Department of said City of Lexington
 and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not
 open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately
 notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at
 times of fire on said premises, such supply of water as shall then be available and no other or greater. That
 the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons,

✓

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant has hereunto signed _____ name _____ the day and year first above written.

WITNESS:

Marie Bradshaw

Lexington-Fayette Urban County
Government
200 East Main Street
Lexington, KY 40507
Attn: Jim Preston

Jim Preston

(Applicant)

APPROVED

WITNESS:

Graue Desj'

Lexington Fire Department
Carl R. ...

(Chief of Fire Department)

City of Lexington

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this 9th day of January 1985

WITNESS:

Mary Joyce Kelle

Ray ...
Operations (Manager)

WITNESS:

Mary Joyce Kelle

R. H. Eden
(Water Company)

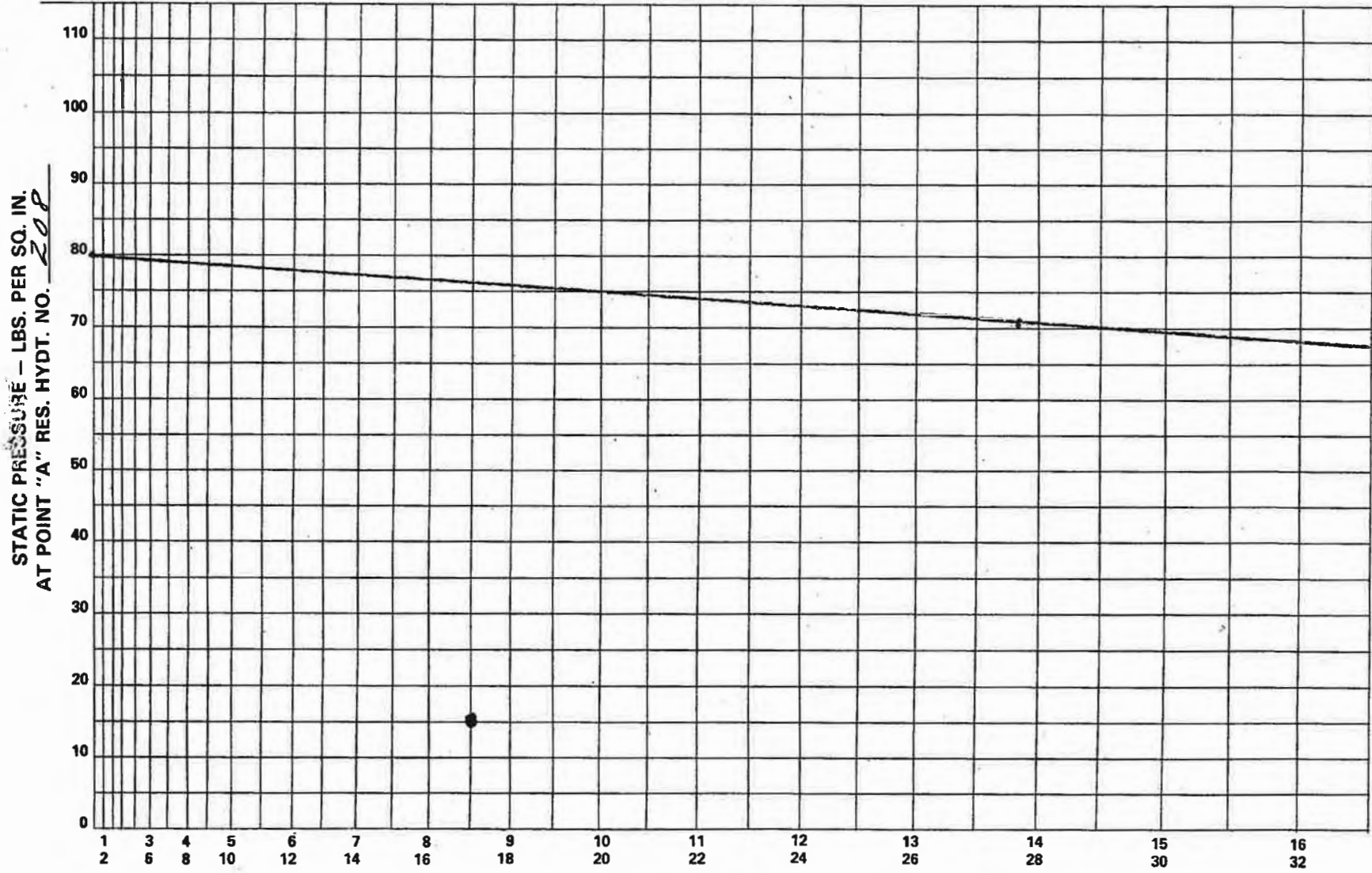
President
Vice-President

LOCATION: Short Street
Between Bdwy & mill
POINT "A" RES. HYDT. NO.: 208
STATIC PRESSURE: 80 P.S.I.
RESIDUAL PRESSURE: 71 P.S.I.

FLOW TEST

Ky. American Water Co.
COMPANY

DATE: 9-6-84
TIME: 3:00 PM
POINT "B" FLOW HYDT. NO. 41
STATIC PRESS.: 81 P.S.I.
PITOT PRESS.: 68 P.S.I.
FLOW: 1380 G.P.M.



STATIC PRESSURE - LBS. PER SQ. IN.
AT POINT "A" RES. HYDT. NO. 208

FLOW-100 GALS. PER MIN. 41
AT POINT "B" FLOW DT. NO.

A flow test was made in the following manner:

Hydrant # 208 on Short Street was selected as the residual hydrant (.A). Hydrant # 41 on Mill Street was selected as the flow hydrant (.B).

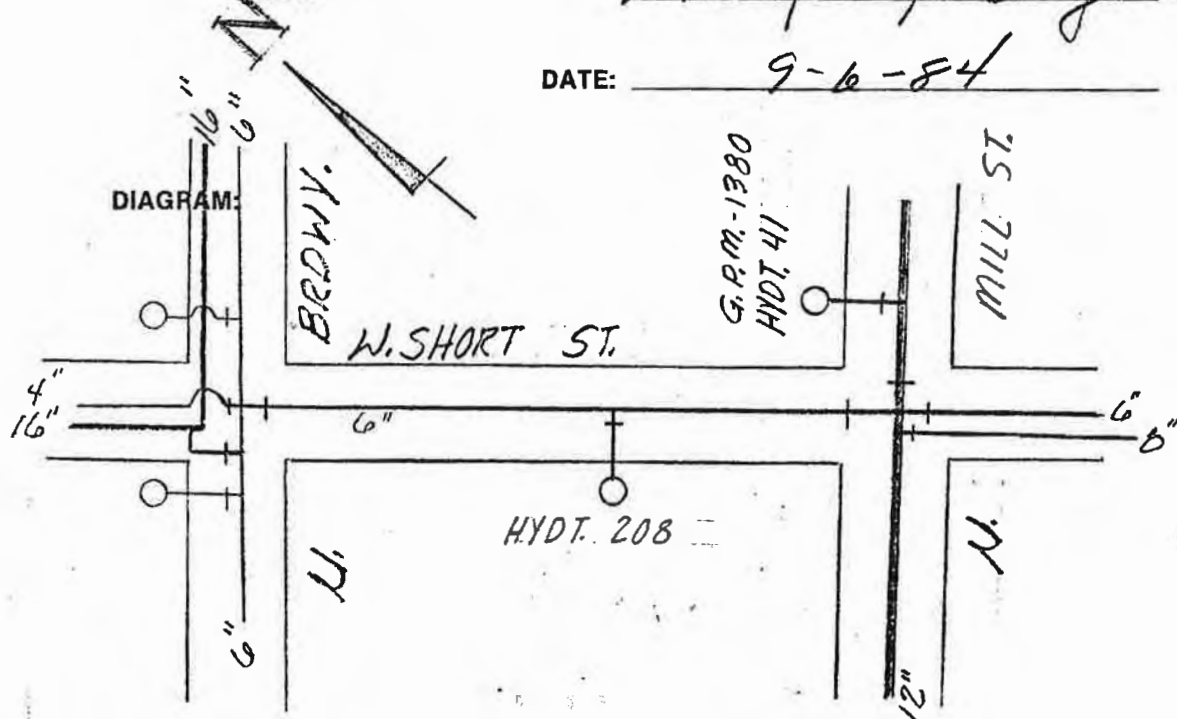
Static pressure at .A was 80 p.s.i. before the flow test.

Static pressure at .B was 81 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 71 lbs. Pitot pressure at .B was 68 lbs. Actual flow at .B was 1380 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 80 lbs. and the static pressure at .B was 81 lbs. This flow test was made using one 2½" outlet at Hydrant # 41.

FLOW TEST CONDUCTED BY: B. Thompson & C. Clayborne

DATE: 9-6-84



KENTUCKY - AMERICAN WATER COMPANY
DATA SHEET FOR PROPOSED FIRE
SERVICE INSTALLATION

INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant VICTORIAN SQUARE PARKING GARAGE

Address: NORTH BROADWAY & SHORT ST. LEXINGTON, KY

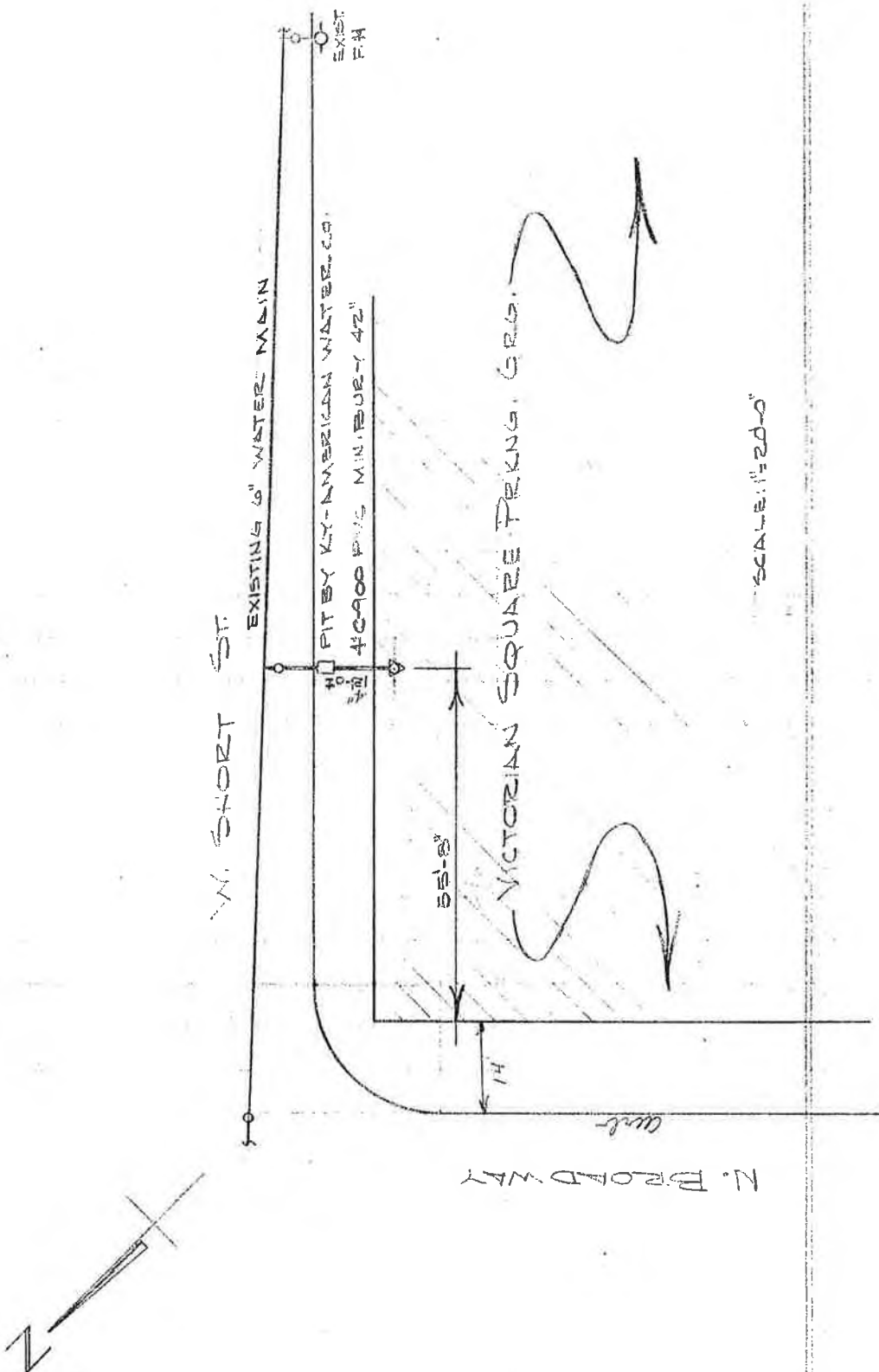
Phone: _____ Date service requested A.S.A.P.

So that we may further process the proposed fire service installation you have requested, we will require the following information:

1. The building to be served by this fire service will be used as:
PARKING GARAGE
2. The building will be constructed of CONCRETE
3. The building will have a roof constructed of CONCRETE
4. There will be 68 sprinkler heads in the building.
5. There will be 0 hydrants in or surrounding the building.
6. There will be 0 hose closets in the building.
7. Fire Pump Data: -0- Maximum g.p.m. at -0- total head.
8. The maximum height of the sprinkler heads above ground level will be 11'.
9. Fire flow requirements 850 g.p.m. at 15 p.s.i. residual pressure at the vault or service connection to Water Company main.
As required by: Factory Insurance Association
Factory Mutual
Kentucky Inspection Bureau Other NEPPA
10. There will be 6855 square feet sprinkled.
11. There will be 1 floors in the structure to be protected.
12. Name or Company for which contracts are to be prepared: URBAN
CO. GOVT.. Incorporated in the State of _____
13. Contracts to be sent to: JIM PRESTON
whose address is 200 E. MAIN ST. LEXINGTON, KY for signatures.
14. Fire service size 4 inch.

By: CENTRAL KY SPRINKLER, INC. Date: 8/31/84

FEE TO BE PAID BY CITY



SCALE: 1"=20'-0"

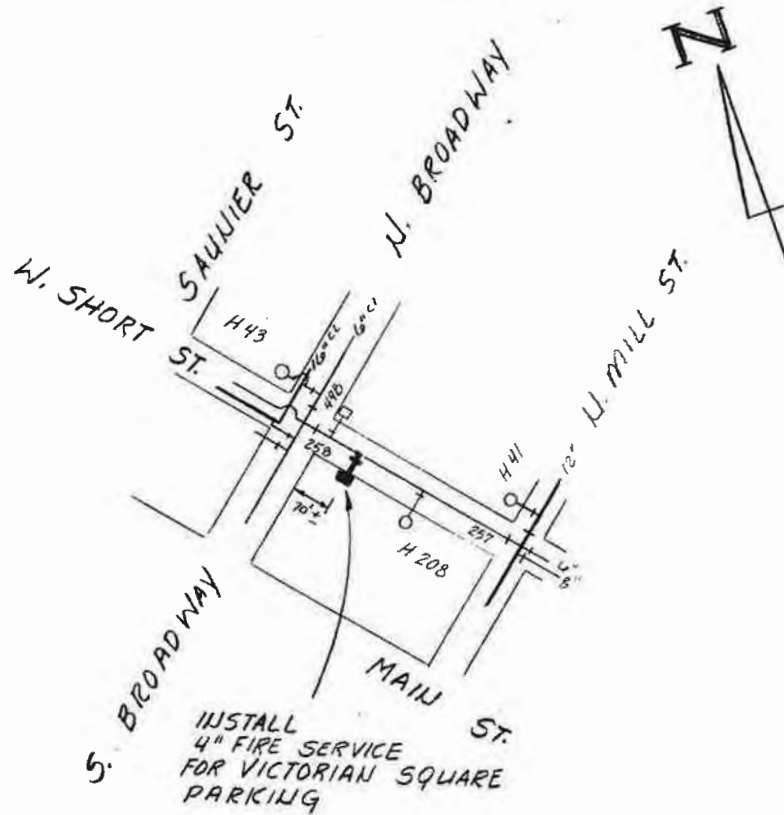
FORM 484
1284
REV. 8-1-82

WORK ORDER SKETCH

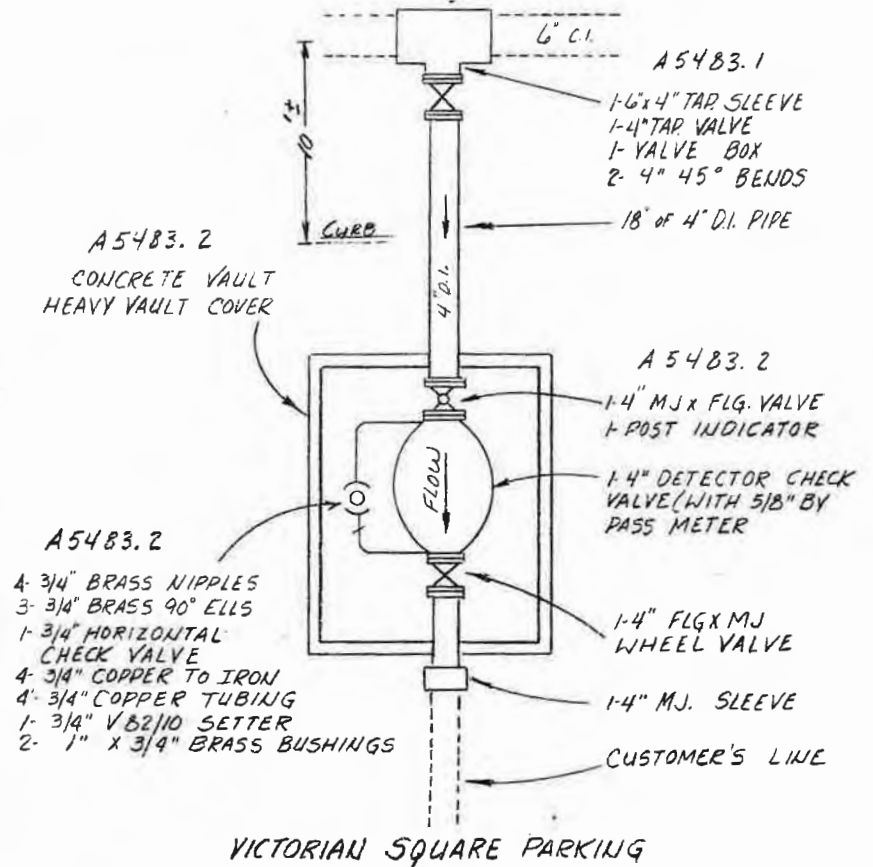
PROPOSED
COMPLETION
WORK ORDER NO. A5483.1

KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY
 MAP NO. 1198-99E MAP CO-ORDINATES _____ TAX DISTRICT LEX. PAY. FULL
 CUSTOMER RELATIONS MGR. _____ DATE COMPLETED _____
 SCALE 1" = 200' DRAWN BY CARMEL CARTMELL DATE RETIRED _____
 SHEET 1 of 1 INSPECTOR _____

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
 PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
 OVERALL LENGTH OF MAINS INSTALLED 18' SIZE 4" AND KIND OF PIPE D.I.
 OVERALL LENGTH OF MAINS REMOVED ABANDONED SIZE _____ AND KIND OF PIPE _____
 REMARKS _____ RELATED INVESTMENT OR RETIREMENT WORK ORDER NO. NA



W. SHORT ST.



FORM 70

LOCAL COPY

Contract No. 745

Service No. 70400

Application for Special Connection

3778615

This Application made in triplicate this 9th day of January, 1985,
 by LEXINGTON PRIVATE URBAN COUNTY (a corporation of the State of Kentucky),
 (Applicant) GOVERNMENT
 hereinafter called the "Applicant", to the KENTUCKY AMERICAN WATER COMPANY
 (Water Company)
 (a corporation of the State of Kentucky), doing business in the city
 of Lexington, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a six (6) inch service pipe connected to the street main of the Water Company on Gainsway Street between Dinwiddie Street and end of Street in the city of Lexington

for the purpose of attaching to said service pipe the following fixtures and openings:

a six (6) inch service line, detector check valve w/by-pass meter, post indicator, and all related control valves and fittings to supply a sprinkler system of approximately 315 sprinkler heads covering approximately 16,500⁺ square feet of restaurant and clubhouse space.

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this application, and to pay the Water Company for service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it shall have the right to attach any testing device or use any means which it may elect to ascertain the condition of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the (curb) ~~(property)~~ line shall be installed and maintained ~~by and~~ at the expense of the applicant.

Third: That a detector device may be required on said service at such location as may be determined by the Water Company. Such detector device shall be installed and maintained ~~by and~~ at the expense of the applicant; all other pipe fixtures and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if required, shall be constructed and maintained ~~by and~~ at the expense of the applicant. The vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times of fire, when it shall be under the control of the Chief of the Fire Department of said city of Lexington and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at times of fire on said premises, such supply of water as shall then be available and no other or greater. That the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons,

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant ha hereunto signed name the day and year first above written.

WITNESS:

Marie Bradshaw

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
[Signature]
(Applicant)

APPROVED

WITNESS:

Israel Oles

LEXINGTON FIRE DEPARTMENT
[Signature]
(Chief of Fire Department)
of

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this

9th day of January 19 55

WITNESS:

Mary Joyce Keel

[Signature]
(Manager)

WITNESS:

Mary Joyce Keel

[Signature]
(Water Company)
President
Vice-President

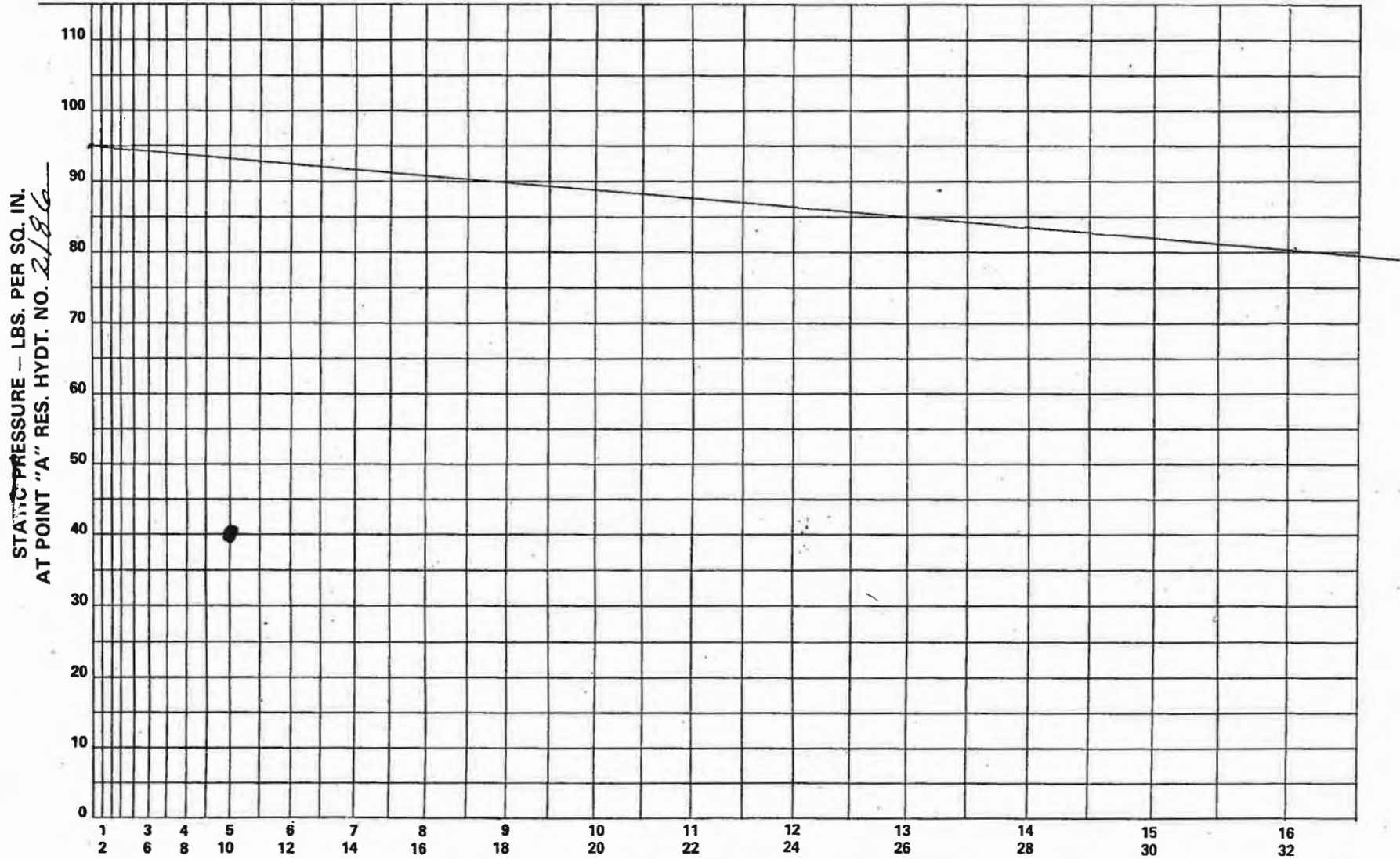
LOCATION: Limlico Parkway
at Hainxway Drive

FLOW TEST

DATE: 11-20-84
TIME: 3:00 PM
POINT "B" FLOW HYDT. NO. 2786
STATIC PRESS.: 100 P.S.I.
PITOT PRESS.: 35 P.S.I.
FLOW: 3215 G.P.M.

POINT "A" RES. HYDT. NO. 2163
STATIC PRESSURE: 95 P.S.I.
RESIDUAL PRESSURE: 80 P.S.I.

Ky. American Water Co
COMPANY



FLOW-100 GALS. PER MIN.
AT POINT "B" FLOW T. NO. 2786

A flow test was made in the following manner:

Hydrant # 2163 on Pimlico Parkway Street was selected as the residual hydrant (.A). Hydrant # 2786 on Pimlico Parkway Street

was selected as the flow hydrant (.B).

Static pressure at .A was 95 p.s.i. before the flow test.

Static pressure at .B was 100 p.s.i. before the flow test.

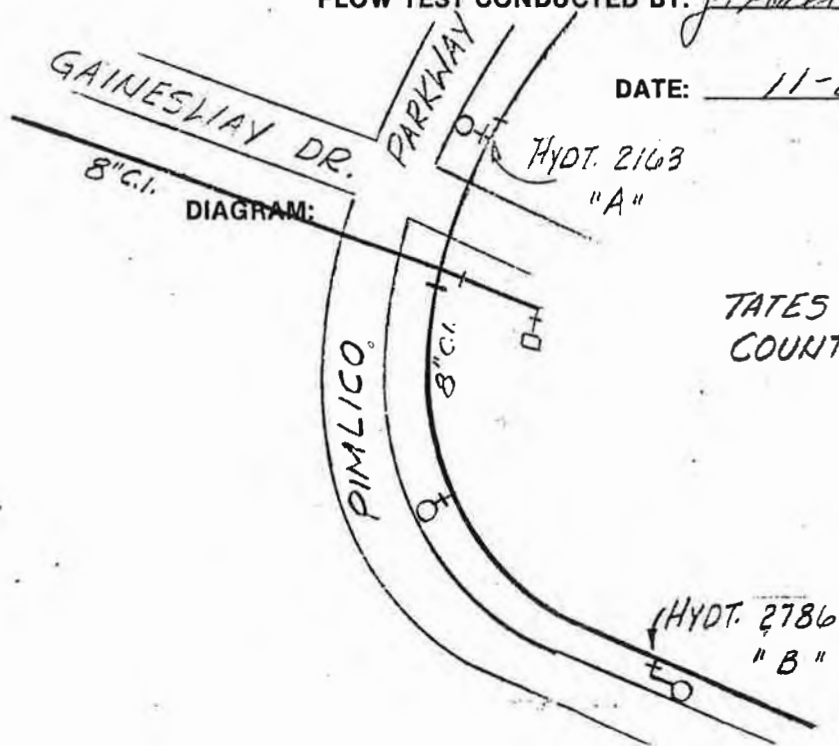
With the hydrant at .B flowing, residual pressure at .A was 80 lbs. Pitot pressure at .B was 35 lbs. Actual flow at .B was 3215 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was

95 lbs. and the static pressure at .B was 100 lbs. This flow test

was made using one $4\frac{1}{2}$ " outlet at Hydrant # 2786.

FLOW TEST CONDUCTED BY: J. Hall & E. Mc Cullough

DATE: 11-20-84



TATES CREEK COUNTRY CLUB

KENTUCKY - AMERICAN WATER COMPANY
 DATA SHEET FOR PROPOSED FIRE
 SERVICE INSTALLATION

INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant Lexington Fayette Urban Co. Government (Tates Creek Center)
end of Gainesway Drive

Address: 200 East Main St. Lexington, Ky. 40507

Phone: 255-2606 Date service requested as soon as possible

So that we may further process the proposed fire service installation you have requested, we will require the following information:

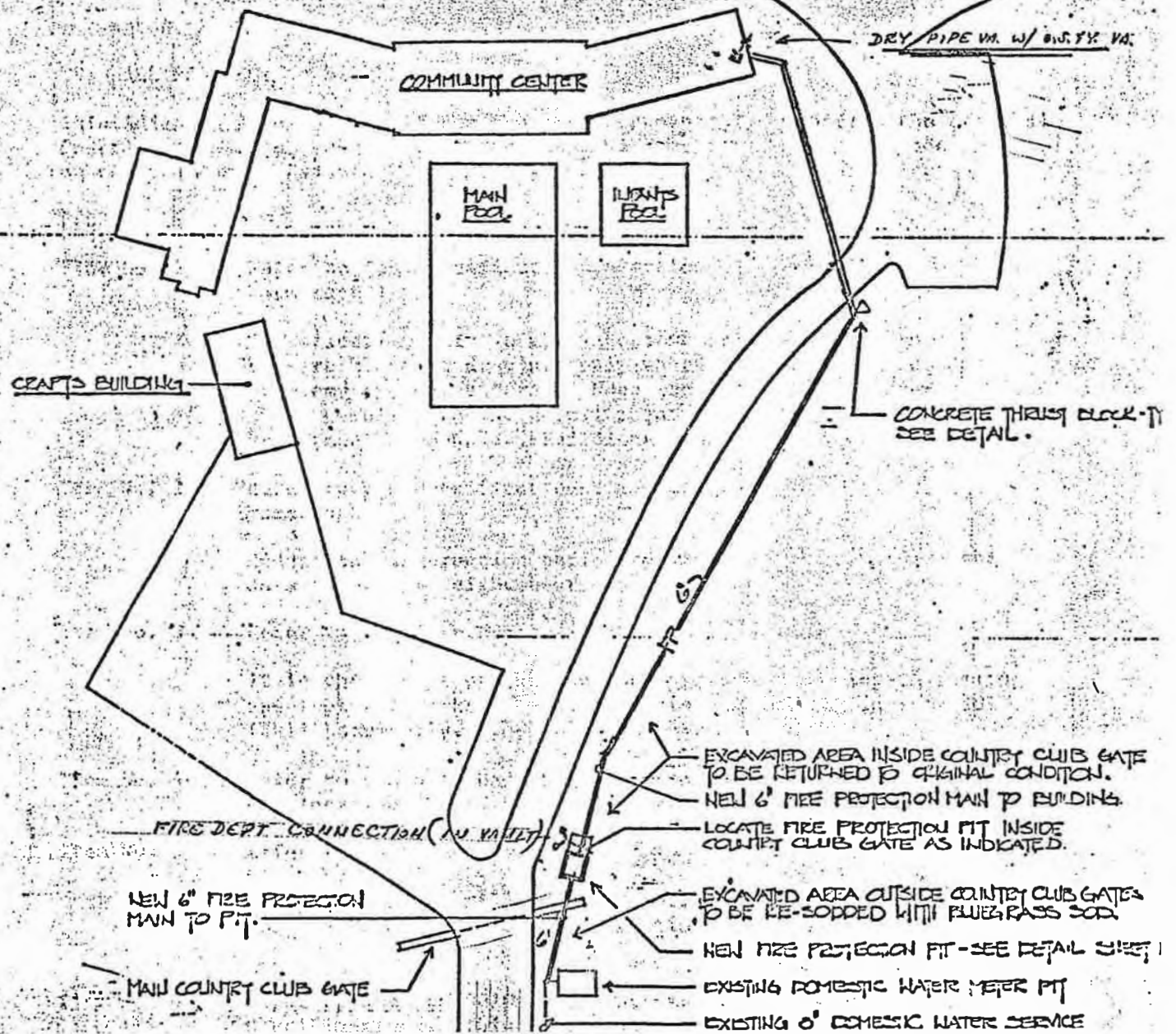
1. The building to be served by this fire service will be used as:
Club House and Restaurant
2. The building will be constructed of Wood and concrete block
3. The building will have a roof constructed of wood and shingles
4. There will be 315 sprinkler heads in the building.
5. There will be 0 hydrants in or surrounding the building.
6. There will be 0 hose closets in the building.
7. Fire Pump Data: N/A Maximum g.p.m. at _____ total head
8. The maximum height of the sprinkler heads above ground level will be 18'0".
9. Fire flow requirements 500 g.p.m. at 40 p.s.i. residual pressure at the vault or service connection to Water Company main.
 As required by: Factory Insurance Association
 Factory Mutual
 Kentucky Inspection Bureau Other
10. There will be 16,500 plus attic square feet sprinkled.
11. There will be 1 plus attic floors in the structure to be protected.
12. Name or Company for which contracts are to be prepared: _____
Lexington Fayette Urban Gov't . Incorporated in the State of Ky.
13. Contracts to be sent to: Lexington Fayette Urban Gov't Attn: Jim Preston
 whose address is 200 E. Main St. Lexington, Ky. 40507 for signature
14. Fire service size 6" inch. No domestic

By: Robert Dooley Date: 11/8/84

Cost of fire service paid by Lexington Fire Protection

CO., INC.
Sprinkler Contractor
Ave. Lexington, KY 40508
(606) 233-4210

SEE
CHA
FELL



CRAFTS BUILDING

COMMUNITY CENTER

MAIN POOL

KIDS POOL

DRY PIPE VA. W/ 6" DUCT VA.

CONCRETE THRU BLOCK-TI
SEE DETAIL.

FIRE DEPT. CONNECTION (IN VAULT)

NEW 6" FIRE PROTECTION
MAIN TO PIT.

MAIN COUNTRY CLUB GATE

EXCAVATED AREA INSIDE COUNTRY CLUB GATE
TO BE RETURNED TO ORIGINAL CONDITION.

NEW 6" FIRE PROTECTION MAIN TO BUILDING.

LOCATE FIRE PROTECTION PIT INSIDE
COUNTRY CLUB GATE AS INDICATED.

EXCAVATED AREA OUTSIDE COUNTRY CLUB GATE
TO BE RE-SODDED WITH BLUEGRASS SOD.

NEW FIRE PROTECTION PIT - SEE DETAIL SHEET 1

EXISTING DOMESTIC WATER METER PIT

EXISTING 6" DOMESTIC WATER SERVICE

FORM 484
12-84
REV. 8-1-89

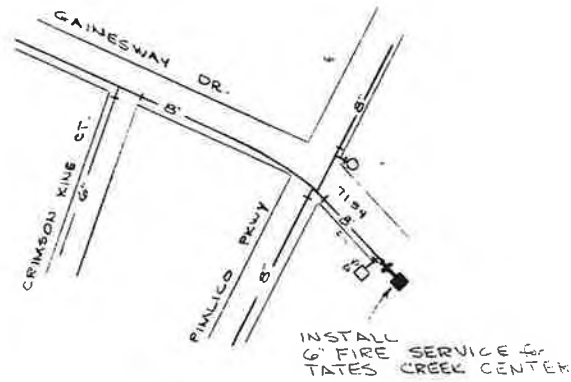
WORK ORDER SKETCH

PROPOSED
COMPLETION

WORK ORDER NO. A5521.1

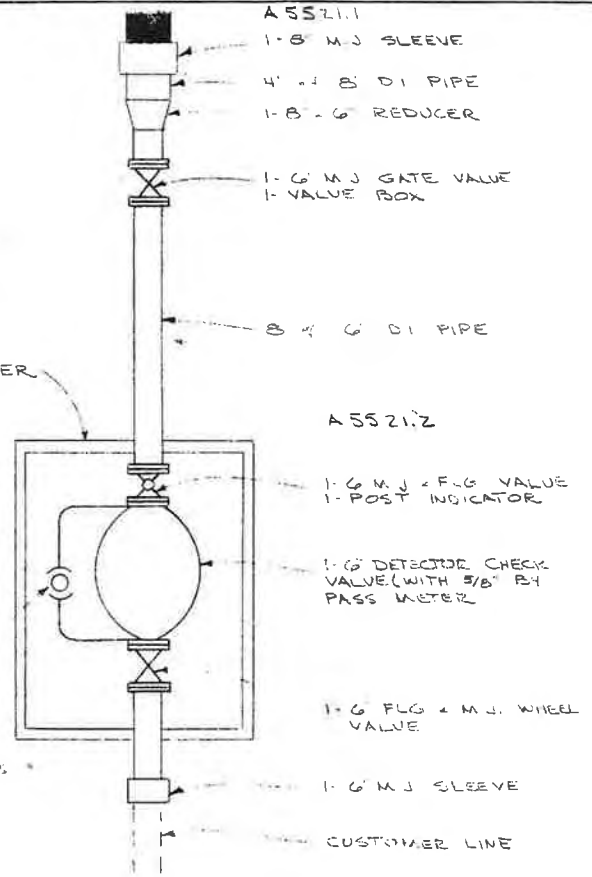
KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY TATES CREEK COUNTRY CLUB
NAME OF COMPANY SUB-DIVISION
 MAP NO. N173-106E MAP CO-ORDINATES - TAX DISTRICT LEX FAY FULL
CUSTOMER RELATIONS
 MGR. 18 DATE COMPLETED OR RETIRED DATE
 SCALE 1" = 200' DRAWN BY J. VICE
 SHEET 1 of 1 INSPECTOR

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
 PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
 OVERALL LENGTH OF MAINS INSTALLED 4' SIZE 8" AND KIND OF PIPE D.I.
 _____ 6' _____ 0' _____
 OVERALL LENGTH OF MAINS REMOVED ABANDONED SIZE _____ AND KIND OF PIPE _____
 REMARKS _____ RELATED INVESTMENT OR RETIREMENT WORK ORDER NO. _____



- 4- 3/4" BRASS NIPPLES
- 2- 3/4" BRASS 90° ELLS
- 1- 3/4" HORN CHECK VALVE
- 4- 3/4" COPPER TO IRON
- 4' 0" 3/4" COPPER TUBING
- 1- 3/4" VALVE SETTER
- 2- 1/2" x 3/4" BRASS BRUSHINGS

CONCRETE VAULT
HEAVY VAULT COVER



LOCAL COPY

Contract No. 815

Service No. 71357

FORM 78

Application for Special Connection

3774861

3774861

This Application made in triplicate this 14th day of February, 1986,
by Lexington-Payette Urban
County Government (a corporation of the State of _____),
(Applicant)

hereinafter called the "Applicant", to the Kentucky-American Water Company
(Water Company)
(a corporation of the State of Kentucky), doing business in the City
of Lexington, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company
for a six inch service pipe connected to the street main of the Water Company
on Lisle Street between Leestown Street and
Forbes Street in the City of Lexington

for the purpose of attaching to said service pipe the following fixtures and openings:

a six inch service line, detector check valve w/by-pass meter, post
indicator and all related control valves and fittings to supply a
sprinkler system of approximately 132 sprinkler heads covering approxi-
mately 12,928 sq. ft. of wastewater treatment plant laboratories and
operations building space
all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street
on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this applica-
tion, and to pay the Water Company for service at the schedule of rates in effect from time to time during the
rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are
as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the
Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it
shall have the right to attach any testing device or use any means which it may elect to ascertain the condition
of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the (curb) ~~(property)~~ line shall be installed
and maintained ~~by and~~ at the expense of the applicant.

Third: That a detector device may be required on said service at such location as may be determined
by the Water Company. Such detector device shall be installed and maintained ~~by and~~ at the expense of the
applicant; all other pipe fixtures and appurtenances shall be constructed and
maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if
required, shall be constructed and maintained ~~by and~~ at the expense of the applicant. The
vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times
of fire, when it shall be under the control of the Chief of the Fire Department of said City of Lexington
and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not
open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately
notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at
times of fire on said premises, such supply of water as shall then be available and no other or greater. That
the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons,

5

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant has hereunto signed _____ name _____ the day and year first above written.

WITNESS:

Robert W. Johnson
Council Clerk

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

Scotty Baesler
Mayor
(Applicant)

APPROVED

WITNESS:

Ivan Desj

LEXINGTON FIRE DEPARTMENT
Carl R. McDonald
(Chief of Fire Department)

CITY of LEXINGTON

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this _____ day of _____ 19____

WITNESS:

Jolene Blackburn

Stan Stocker
Operations (Manager)

WITNESS:

Jolene Blackburn

R. A. Edson
(Water Company)

XPresident
Vice-President

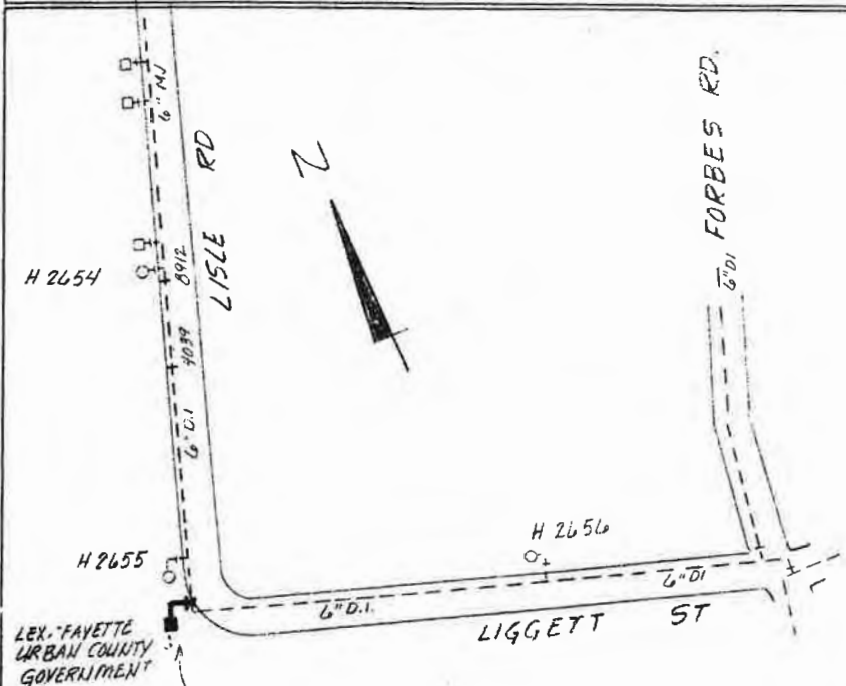
FORM 464
1-24-64
REV. 8-1-67

WORK ORDER SKETCH

PROPOSED
COMPLETION
WORK ORDER NO. A5720.1

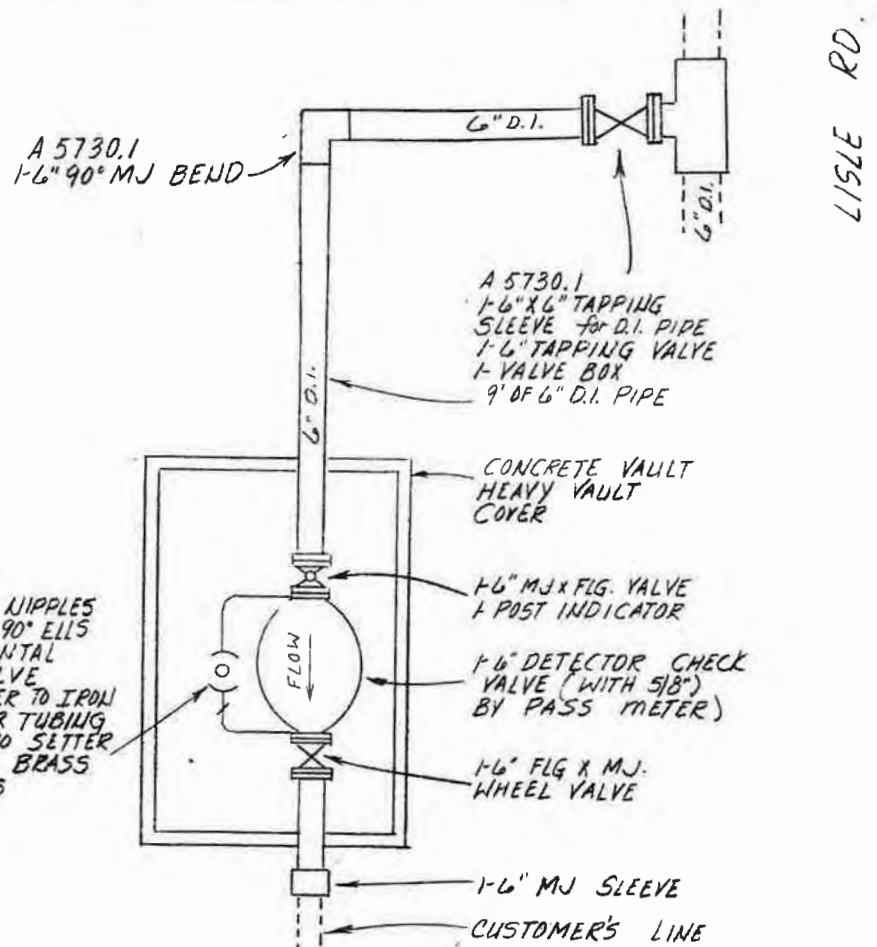
TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
OVERALL LENGTH OF MAINS INSTALLED FS SIZE 9" AND KIND OF PIPE D.I.
OVERALL LENGTH OF MAINS REMOVED SIZE _____ AND KIND OF PIPE _____
ABANDONED
REMARKS _____ RELATED INVESTMENT WORK ORDER NO. _____
RETIREMENT _____

KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY
NAME OF COMPANY _____
MAP NO. 203.92E MAP CO-ORDINATES _____ TAX DISTRICT LEX. FAY. FULL
CUSTOMER RELATIONS _____
MGR. _____ 19 85 DATE COMPLETED _____
SCALE 1" = 200' DRAWN BY C. CARTMELL
SHEET 1 OF _____ INSPECTOR _____



LEX. FAYETTE URBAN COUNTY GOVERNMENT
INSTALL
6" FIRE SERVICE

- 4-3/4" BRASS NIPPLES
- 3-3/4" BRASS 90° ELLS
- 1-3/4" HORIZONTAL CHECK VALVE
- 2-3/4" COPPER TO IRON
- 4-3/4" COPPER TUBING
- 1-3/4" V 82/110 SETTER
- 2-3/4" X 1/2" BRASS RUSHINGS



LEXINGTON - FAYETTE URBAN COUNTY GOVERNMENT

LOCATION: Le Road at the
Cemetery

FLO TEST

DATE: August 27 Page 29 of 39

POINT "A" RES. HYDT. NO.: 2655

TIME: 9 AM

STATIC PRESSURE: 89 P.S.I.

POINT "B" FLOW HYDT. NO. P-6

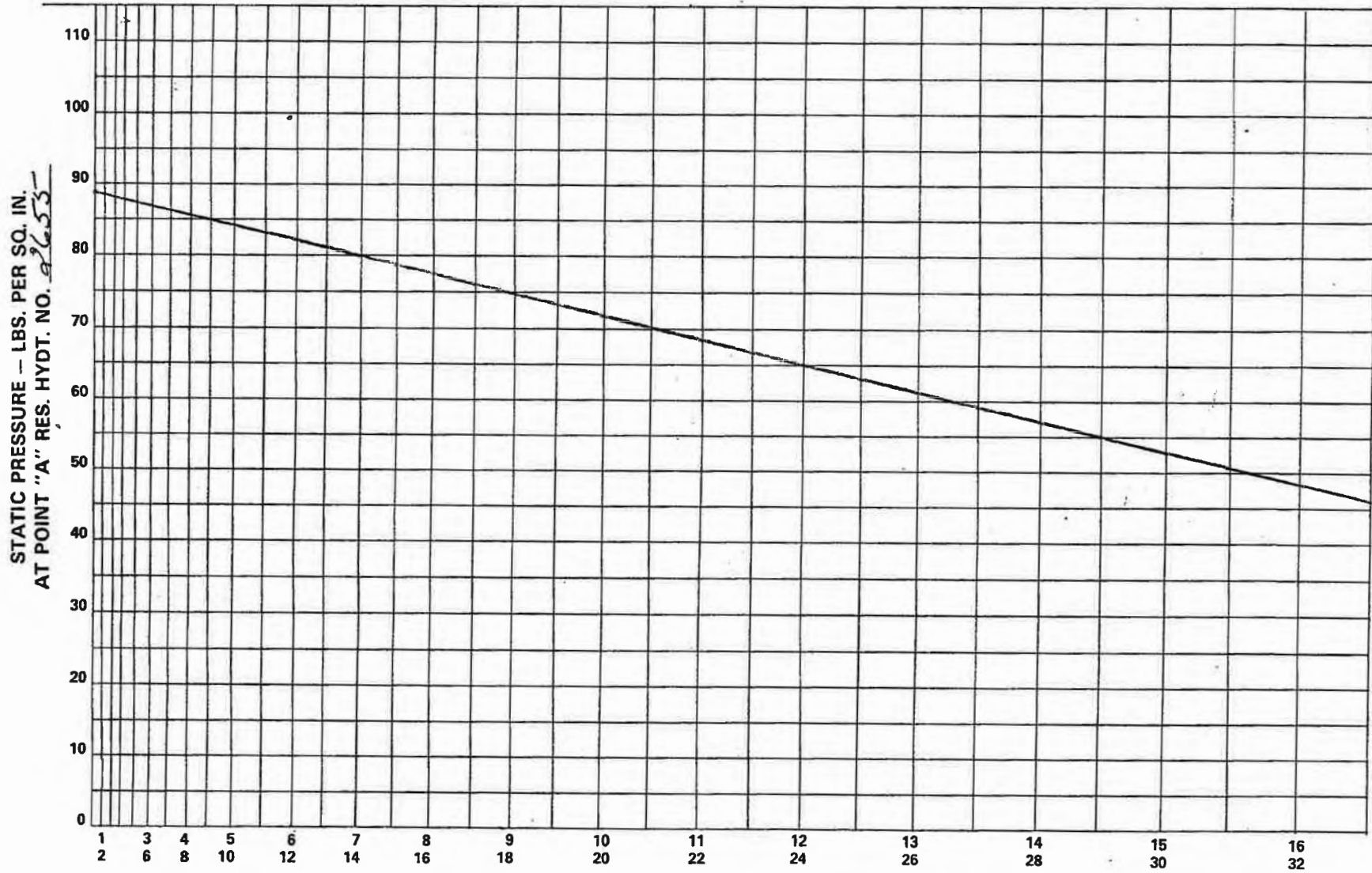
RESIDUAL PRESSURE: 69 P.S.I.

STATIC PRESS.: 97 P.S.I.

PITOT PRESS.: 42 P.S.I.

Kentucky American Water Co.
COMPANY

FLOW: 1090 G.P.M.



FLOW-100 GALS. PER MIN.
AT POINT "B" FLOW HYDT. NO. P-6

A flow test was made in the following manner:

Hydrant # 2655 on Lisle Street was selected as the residual hydrant (.A). Hydrant # P-6 on Forbes RD.

Street

was selected as the flow hydrant (.B).

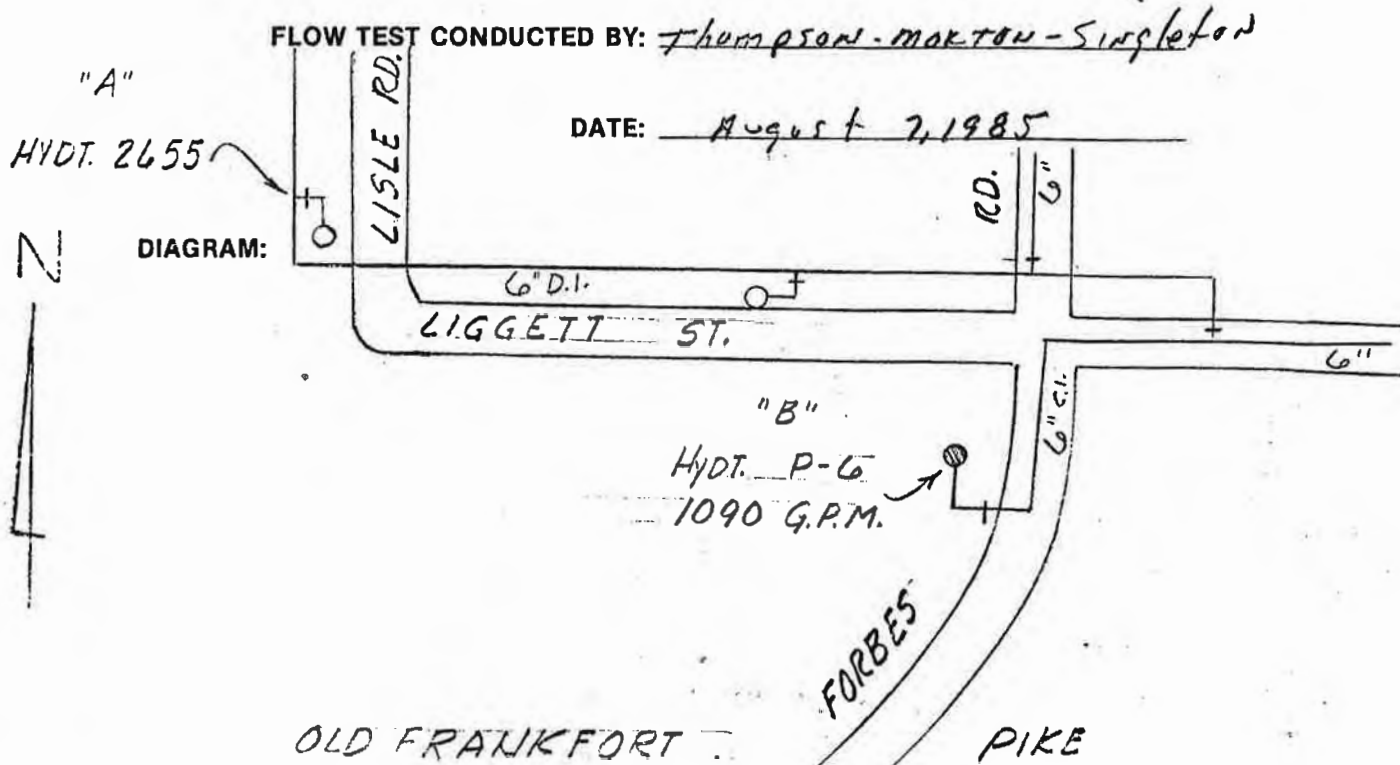
Static pressure at .A was 89 p.s.i. before the flow test.

Static pressure at .B was 97 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 69 lbs. Pitot pressure at .B was 42 lbs. Actual flow at .B was 1090 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was

89 lbs. and the static pressure at .B was 97 lbs. This flow test

was made using one 2½" outlet at Hydrant # P-6.



KENTUCKY - AMERICAN WATER COMPANY
DATA SHEET FOR PROPOSED FIRE
SERVICE INSTALLATION

INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant Lexington-Fayette Urban County Government

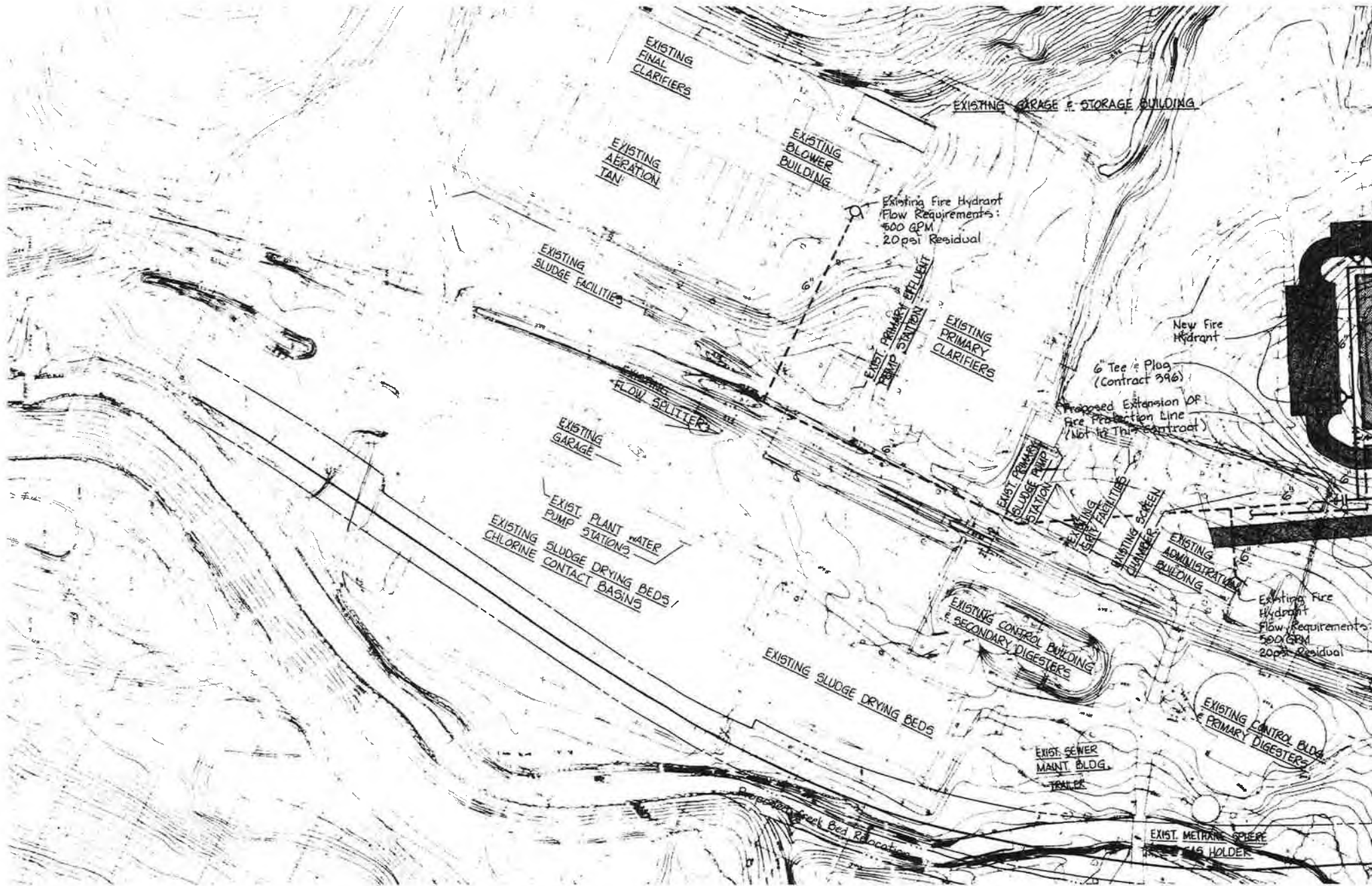
Address: 200 East Main Street, Lexington, Kentucky 40507

Phone: 258-3400 Date service requested ASAP

So that we may further process the proposed fire service installation you have requested, we will require the following information:

1. The building to be served by this fire service will be used as:
Wastewater Treatment Plant Laboratory and Operations Building
 2. The building will be constructed of precast concrete panels
 3. The building will have a roof constructed of steel joist/metal pan/built-up roof
 4. There will be 132 sprinkler heads in the building.
 5. There will be 3 hydrants in or surrounding the building.
 6. There will be 0 hose closets in the building.
 7. Fire Pump Data: N/A Maximum g.p.m. at N/A total head.
 8. The maximum height of the sprinkler heads above ground level will be 10' Approx.
 - * 9. Fire flow requirements 1140 g.p.m. at 55 p.s.i. residual pressure at the vault or service connection to Water Company main.
As required by: Factory Insurance Association
Factory Mutual
Kentucky Inspection Bureau Other
 10. There will be 12,928 square feet sprinkled.
 11. There will be 1 floors in the structure to be protected.
 12. Name or Company for which contracts are to be prepared: _____
NA. Incorporated in the State of _____
 13. Contracts to be sent to: Scotty Baesler, Mayor
whose address is same as above for signatures.
 14. Fire service size 6 inch.
- By: Ronald R. Sewell, P.E. Date: September 4, 1985
Commissioner of Public Works







BRUNING 44.132 60571

DATE	BY	REVISIONS
8/12/85	TJ	Added Fire Flow Requirements

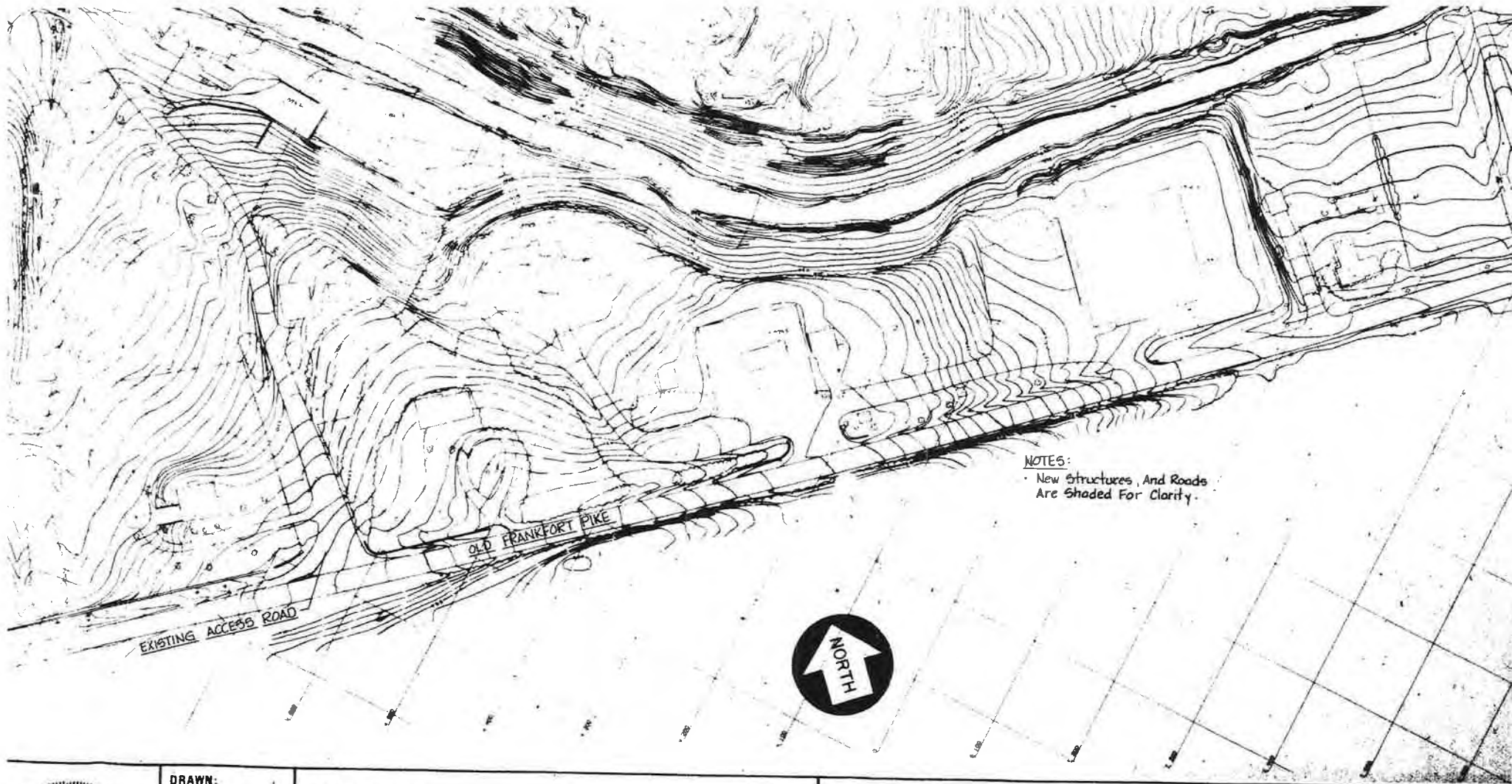
Howard K. Bell
Consulting Engineers, Inc.

A Joint Ve



Lexington, Ke

In Association With



	DRAWN:	TJ		TOWN BRANCH WASTEWATER TREATMENT PLANT	Phase 1 Laboratory & Operations Building	SCALE:	1" = 100'
	CHECKED:	RJC				DATE:	JULY, 1
	TRACED:	TJ				SHEET NO.	
	APPROVED:	RJC					1 of 1

87000136

3995050

LOCAL COPY

FORM 78

Service No. 72092

Application for Special Connection

87000136

This Application made in triplicate this 19TH day of NOVEMBER, 1986,
 by Lexington-Fayette Urban County Government of the State of Kentucky (Applicant),
 hereinafter called the "Applicant", to the Kentucky-American Water Company
 (Water Company)
 (a corporation of the State of Kentucky), doing business in the City
 of Lexington, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a Four inch service pipe connected to the street main of the Water Company on Old Frankfort Street between Forbes Road Street and Fox Industrial Street in the City of Lexington for the purpose of attaching to said service pipe the following fixtures and openings:

A four inch service line, detector check valve w/by-pass meter, post indicator, and all related control valves and fittings to supply a sprinkler system of approximately 30 sprinkler heads covering approximately 6,100 sq. ft. of traffic operations and storage space.

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this application, and to pay the Water Company for service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it shall have the right to attach any testing device or use any means which it may elect to ascertain the condition of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the (curb) (property) line shall be installed and maintained ~~by and~~ at the expense of the applicant.

Third: That a detector device may be required on said service at such location as may be determined by the Water Company. Such detector device shall be installed and maintained ~~by and~~ at the expense of the applicant; all other pipe fixtures and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if required, shall be constructed and maintained ~~by and~~ at the expense of the applicant. The vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times of fire, when it shall be under the control of the Chief of the Fire Department of said City of Lexington and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at times of fire on said premises, such supply of water as shall then be available and no other or greater. That the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons,

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant has hereunto signed _____ name _____ the day and year first above written.

WITNESS:

Beverly Heppner

LEXINGTON-FAYETTE URBAN COUNTY/DIVISION

Stanley J. [Signature]
OF TRADES
200 E. Main Street
Lexington, Kentucky 40507
(Applicant)

APPROVED

WITNESS:

Beverly Heppner

LEXINGTON FIRE DEPARTMENT

Carl R. McDonald
(Chief of Fire Department)

of _____

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this 29th day of December 1986

WITNESS:

[Signature]

J. S. [Signature]
M (Manager)

WITNESS:

[Signature]

[Signature]
(Water Company)

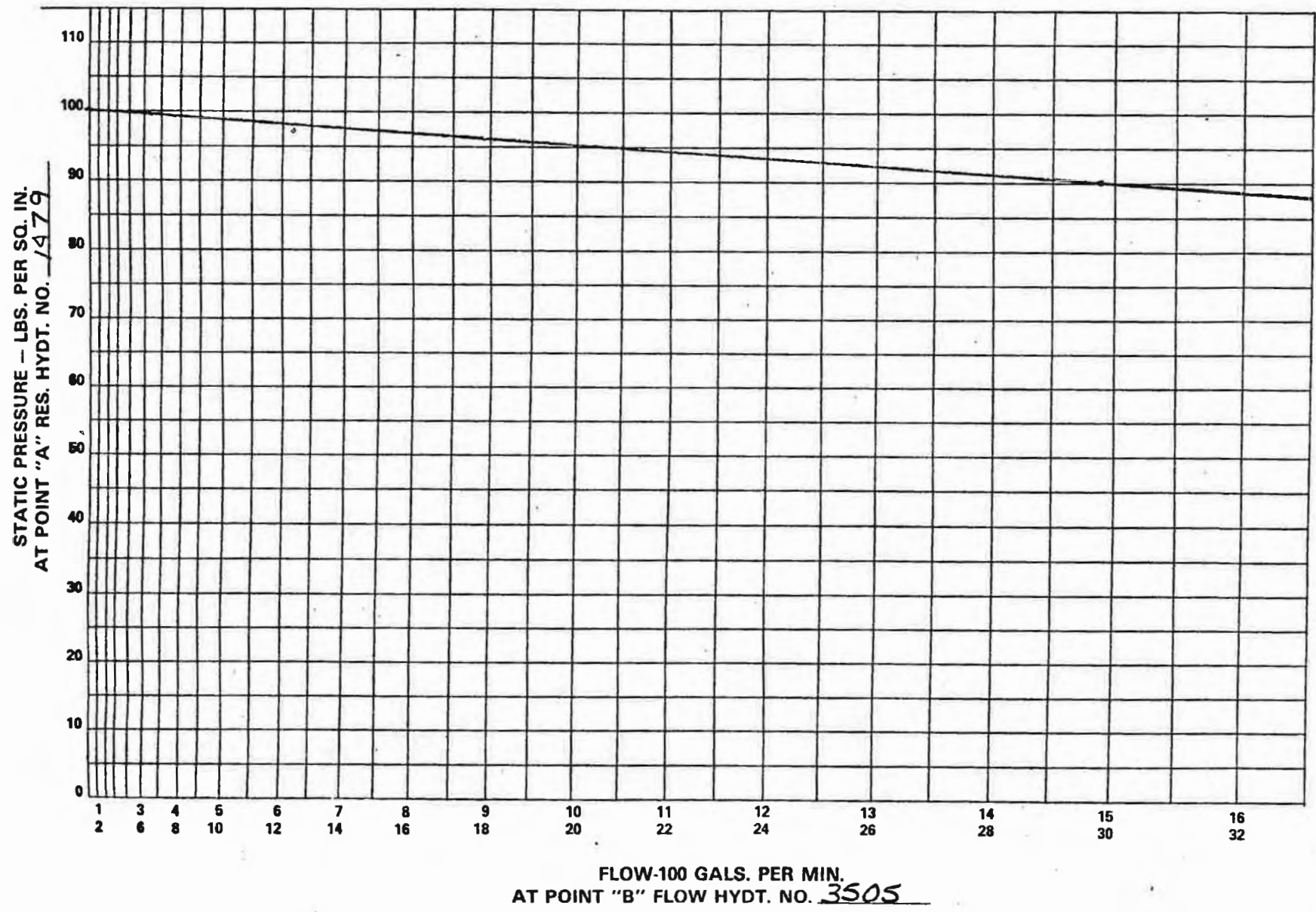
President
Vice-President

LOCATION: FRANKFORT Rd
@ Fox Road
POINT "A" RES. HYDT. NO.: 1479
STATIC PRESSURE: 100 P.S.I.
RESIDUAL PRESSURE: 90 P.S.I.

FL OUT

KY. American Water Co.
COMPANY

KAW_R_LFUCGDR1_NUM034-012519
DATE: 2-18 Page 38 of 79
TIME: 9:30 AM
POINT "B" FLOW HYDT. NO. 3505
STATIC PRESS.: 100 P.S.I.
PITOT PRESS.: 79 P.S.I.
FLOW: 1490 G.P.M.



A flow test was made in the following manner:

Hydrant # 1479 on Old Frankfort Street was selected as the residual hydrant (.A). Hydrant # 3505 on Old Frankfort Street

was selected as the flow hydrant (.B).

Static pressure at .A was 100 p.s.i. before the flow test.

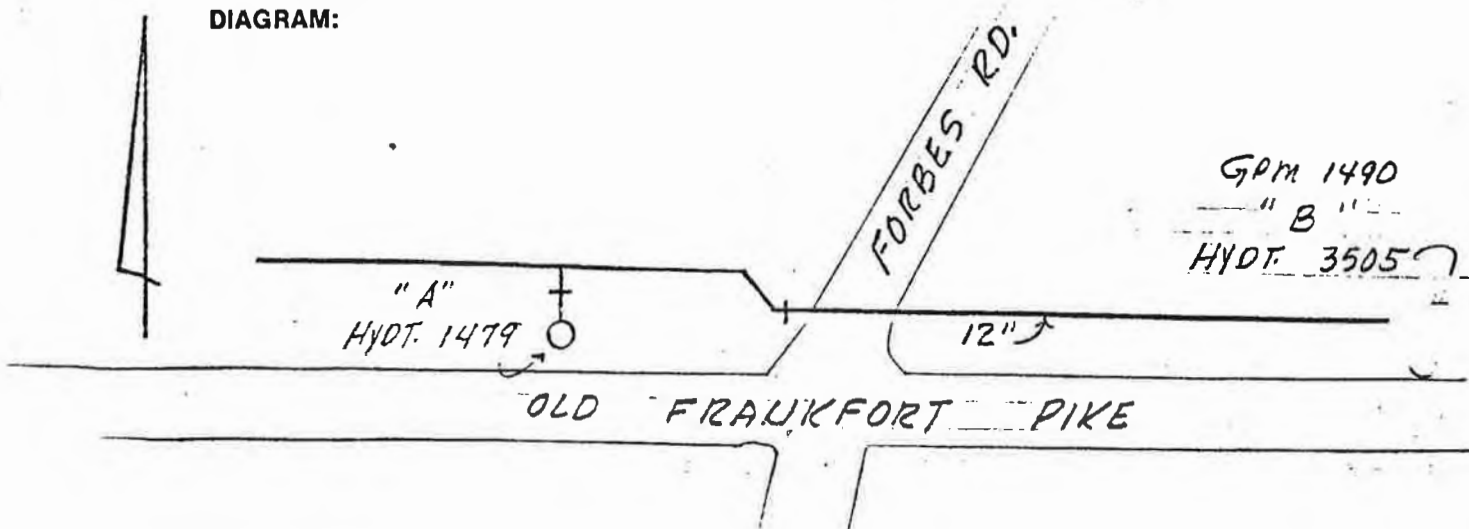
Static pressure at .B was 100 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 90 lbs. Pitot pressure at .B was 79 lbs. Actual flow at .B was 1490 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 100 lbs. and the static pressure at .B was 100 lbs. This flow test was made using one 2½" outlet at Hydrant # 3505.

FLOW TEST CONDUCTED BY: B. Thompson & J. P. Smith

DATE: 2-18-86

N Not to Scale:
DIAGRAM:



KENTUCKY - AMERICAN WATER COMPANY
 DATA SHEET FOR PROPOSED FIRE
 SERVICE INSTALLATION
 INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant Traffic Operations Center

Address: Old Frankfort Pike Lexington, Kentucky

Phone: _____ Data service requested A.S.A.P.

So that we may further process the proposed fire service installation you have requested, we will require the following information:

1. The building to be served by this fire service will be used as:
Traffic Operations / Storage
 2. The building will be constructed of Concrete block/steel
 3. The building will have a roof constructed of Metal Decking/built-up
 4. There will be 30 sprinkler heads in the building.
 5. There will be N/A hydrants in or surrounding the building.
 6. There will be N/A hose closets in the building.
 7. Fire Pump Data: N/A Maximum g.p.m. at - total head.
 8. The maximum height of the sprinkler heads above ground level will be 16' - 0".
 9. Fire flow requirements 850 g.p.m. at 40 p.s.i. residual pressure at the vault or service connection to Water Company main.
 As required by: Factory Insurance Association
 Factory Mutual
 Kentucky Inspection Bureau Other
 10. There will be 6,100 square feet sprinkled.
 11. There will be One [1] floor* in the structure to be protected.
 12. Name or Company for which contracts are to be prepared: Fayette-
Engineering
Urban County Government/Div. of Traffic. Incorporated in the State of KY
 13. Contracts to be sent to: James Preston
 whose address is 200 East Main Street - Lexington, KY for signatures.
 14. Fire service size four [4"] inch, with existing two inch [2"] domestic.
- By: Robert Dooley Date: September 10, 1986
 Cost of fire service to be paid by:
 LEXINGTON FIRE PROTECTION CO., INC.



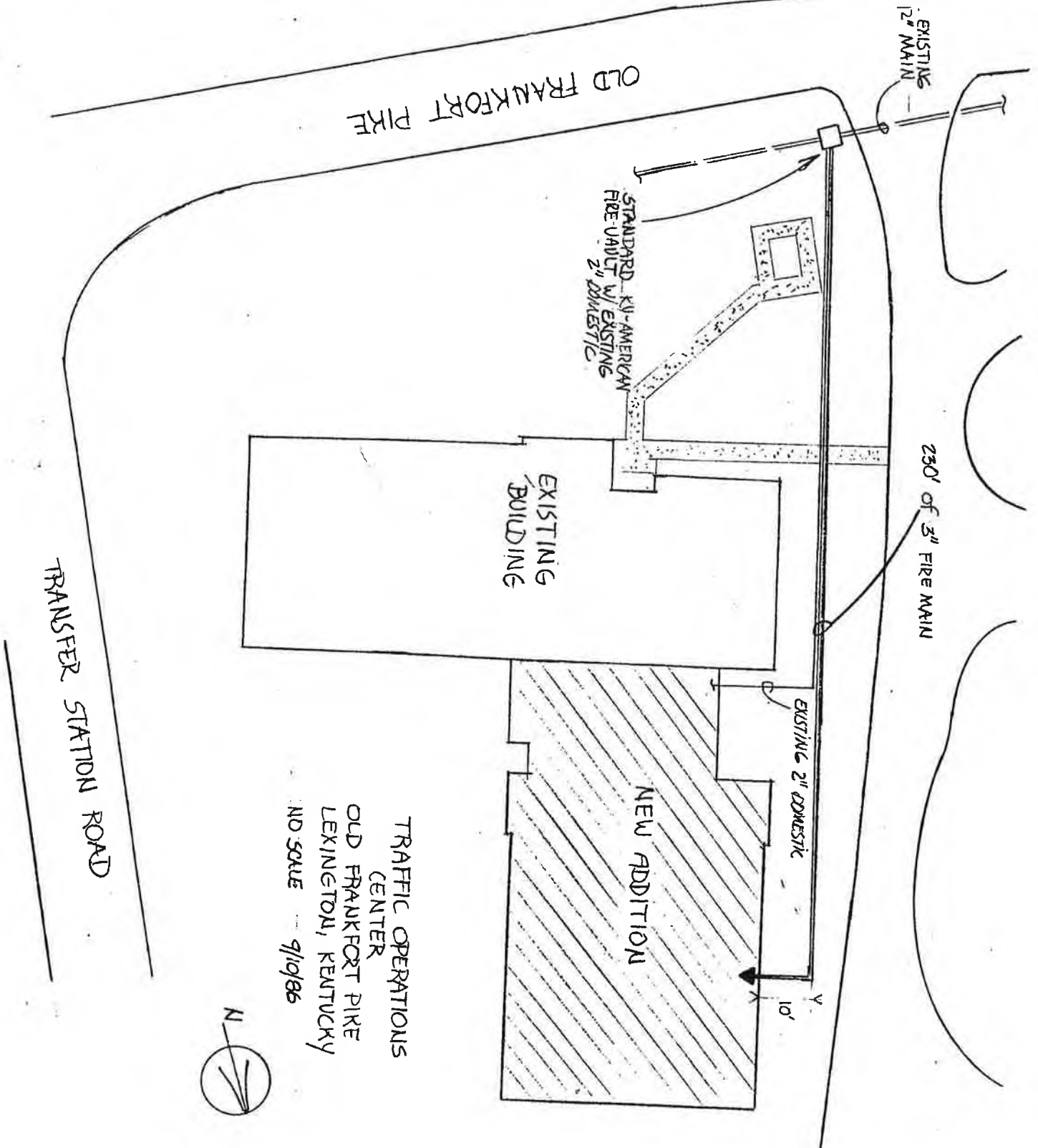
Lexington Fire Protection Co., Inc.

AUTOMATIC SPRINKLER CONTRACTORS

PHONE (606) 233-4210

729 BELLAIRE AVENUE

LEXINGTON, KENTUCKY 40508



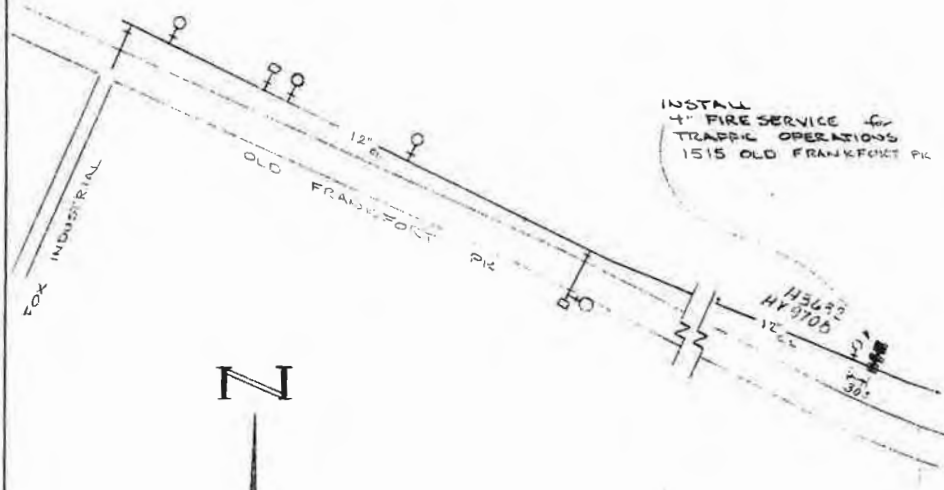
FORM 484
1-22-84
(REV. 8-1-84)

WORK ORDER SKETCH

PROPOSED
COMPLETION
WORK ORDER NO. A5347.1

KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY TRAFFIC OPERATIONS
 NAME OF COMPANY SUB-DIVISION
 MAP NO. N103-DZ MAP CO-ORDINATES _____ TAX DISTRICT LET FAY FULL
 CUSTOMER RELATIONS MGR. _____ DATE COMPLETED _____
 SCALE 1" = 200' DRAWN BY J. VICE
 SHEET 1 of 1 INSPECTOR _____

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
 PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
 OVERALL LENGTH OF MAINS INSTALLED 15' SIZE 4" AND KIND OF PIPE D.I.
 OVERALL LENGTH OF MAINS REMOVED SIZE _____ AND KIND OF PIPE _____
 ABANDONED
 REMARKS _____ RELATED INVESTMENT OF RETIREMENT WORK ORDER NO. _____



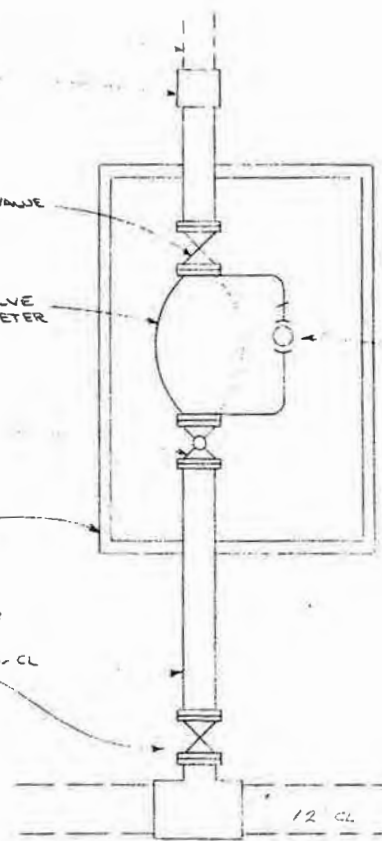
NOTE: REMOVE 2 SECTIONS OF WOOD PLANK FENCING. THIS FENCE WILL ALSO BE REINSTALLED AT COMPLETION.

CUSTOMER LINE
 A5347.2
 1-4" M.J. SLEEVE

1-4" FLG x M.J. WHEEL VALVE
 1-4" DETECTOR CHECK VALVE WITH 5/8" BY PASS METER
 1-4" M.J. x FLG VALVE
 1- POST INDICATOR

CONCRETE VAULT (HEAVY) VAULT COVER

A5347.1
 15' of 4" D.I. PIPE
 1-12" x 4" TAP SLEEVE F. CL
 1-4" TAP VALVE
 1- VALVE BOX



2- 3/4" BRASS NIPPLES
 2- 3/4" BRASS 90° ST. ELLS
 2- 3/4" COPPER TO IRON
 4- 3/4" COPPER TURNING
 1- 3/4" V82/10 SETTER w/ CHECK VALVE
 2- 1"-3/4" BRASS BUSHINGS

LOCAL COPY

#900

Acct # 87000948

Service No. 73428

FORM 78

Application for Special Connection

~~3974698~~

87000948

This Application made in triplicate this 10th day of March, 1987,
by Lexington-Fayette Urban Co. Govt. (a corporation of the State of _____),
(Applicant)
hereinafter called the "Applicant", to the Kentucky-American Water Company
(Water Company)
(a corporation of the State of Kentucky), doing business in the City
of Lexington, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company
for an Eight inch service pipe connected to the street main of the Water Company
on Old Frankfort Street between New Circle Street and
Viley Street in the City of Lexington

for the purpose of attaching to said service pipe the following fixtures and openings:

An eight inch Service Line, Detector Check Valve with By-Pass Meter, Post
Indicator and all related Control Valves and fittings to supply a Sprinkler
System of approximately 443 Sprinkler Heads covering approximately 40,000 square
feet of vehicle maintenance garage space

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street
on which the said main of the Water Company is located.

In consideration for which the Applicant agrees to be bound by all the terms and conditions of this applica-
tion, and to pay the Water Company for service at the schedule of rates in effect from time to time during the
rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are
as follows:

First: That the Water Company, by its representatives, shall have the right to enter the premises of the
Applicant at any reasonable time for the purpose of making such inspections as it may deem necessary, and it
shall have the right to attach any testing device or use any means which it may elect to ascertain the condition
of the pipe and appurtenances and the uses made of same.

Second: That the service connection from the street main to the ~~(curb)~~ (property) line shall be installed
and maintained ~~by and~~ at the expense of *(See Below)

Third: That a detector device may be required on said service at such location as may be determined
by the Water Company. Such detector device shall be installed and maintained ~~by and~~ at the expense of the
*(See Below); all other pipe fixtures and appurtenances shall be constructed and
maintained in good condition by and at the expense of the Applicant.

Fourth: That the vault and vault cover to house the detector device and related valves, fittings, etc., if
required, shall be constructed and maintained ~~by and~~ at the expense of the *(See Below). The
vault construction shall be subject to Water Company approval.

Fifth: That the service control valve shall be under the control of the Water Company, except during times
of fire, when it shall be under the control of the Chief of the Fire Department of said City of Lexington
and the Applicant agrees to obtain approval of said Chief of this application.

Sixth: That all fixtures and openings (other than control valves) shall be kept closed and sealed, and not
open or used except during times of fire. Upon extinguishment of each fire, the Applicant shall immediately
notify the Water Company, so that said fixtures and openings can again be closed and sealed.

Seventh: That the extent of the rights of the Applicant under this application is to receive, but only at
times of fire on said premises, such supply of water as shall then be available and no other or greater. That
the Applicant agrees the Water Company shall not be considered in any manner an insurer of property or persons,

*The Applicant as calculated by Water Company's Rules and Regulations

or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and that it shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Eighth: That this application does not contemplate uses of fixtures other than herein stated. If a supply of water for use other than extinguishment of fire is desired by the Applicant, then same shall be taken only through a service pipe separately connected with the street main of the Water Company and not connected directly or indirectly with the service pipe contemplated by this application. Any waste of water or use of water for purposes other than the extinguishment of fire through this connection shall be deemed a violation of the terms and conditions of this application and the rules and regulations of the Water Company.

Ninth: That the Applicant shall furnish, attach and make a part hereof, an accurate sketch showing the pipes, valves, hydrants, tank, openings, and appurtenances contemplated in this application. Such sketch must also show any other water supply system and pipe lines and appurtenances which may exist on the premises. There shall be no connection between such other supply and pipes connected to the Water Company's mains.

Tenth: That the rights and obligations of the Applicant hereunder shall be further subject at all times to the rates, rules and regulations of the Water Company that now exist or which may hereafter be adopted.

Eleventh: That the Applicant agrees to obtain in advance the approval of the Water Company for any change, alteration, addition or deduction contemplated in the fixtures, openings and uses herein specified.

Twelfth: That upon acceptance by the Water Company and the completion of the service connection herein contemplated, this application shall be in force as a contract and shall continue as such until cancelled by written notice fifteen days in advance given by the Applicant to the Water Company.

Thirteenth: That the Water Company has the right to discontinue or disconnect said service pipe and terminate this application, upon written notice given fifteen days in advance by the Water Company to the Applicant, for failure to pay any bill when due, or for any violation of any of the terms and conditions of this application, or for any violation of its rules, and in emergencies also has the right without notice to shut off all or any part of its facilities and discontinue the service when deemed necessary by the Water Company for the purpose of making any repairs, alterations, additions, or to prevent possible contamination through cross-connected facilities of the Applicant or to prevent negligent or wilful waste of water through the facilities of the Applicant.

Fourteenth: The acceptance of this application by the Water Company must be executed by its Manager and President or Vice-President before same becomes effective as a contract.

IN WITNESS WHEREOF the Applicant ha hereunto signed name the day and year first above written.

WITNESS:

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

[Signature]

[Signature]
Const Mgr.
(Applicant)

APPROVED

WITNESS:

LEXINGTON FIRE DEPARTMENT

Rachel C. Abbott

[Signature]
(Chief of Fire Department)
of Mar 8th

IN WITNESS WHEREOF the Water Company hereby accepts the foregoing application this 10th day of March 19 87

WITNESS:

[Signature]

[Signature]
(Manager)

WITNESS:

[Signature]

[Signature]
(Water Company)

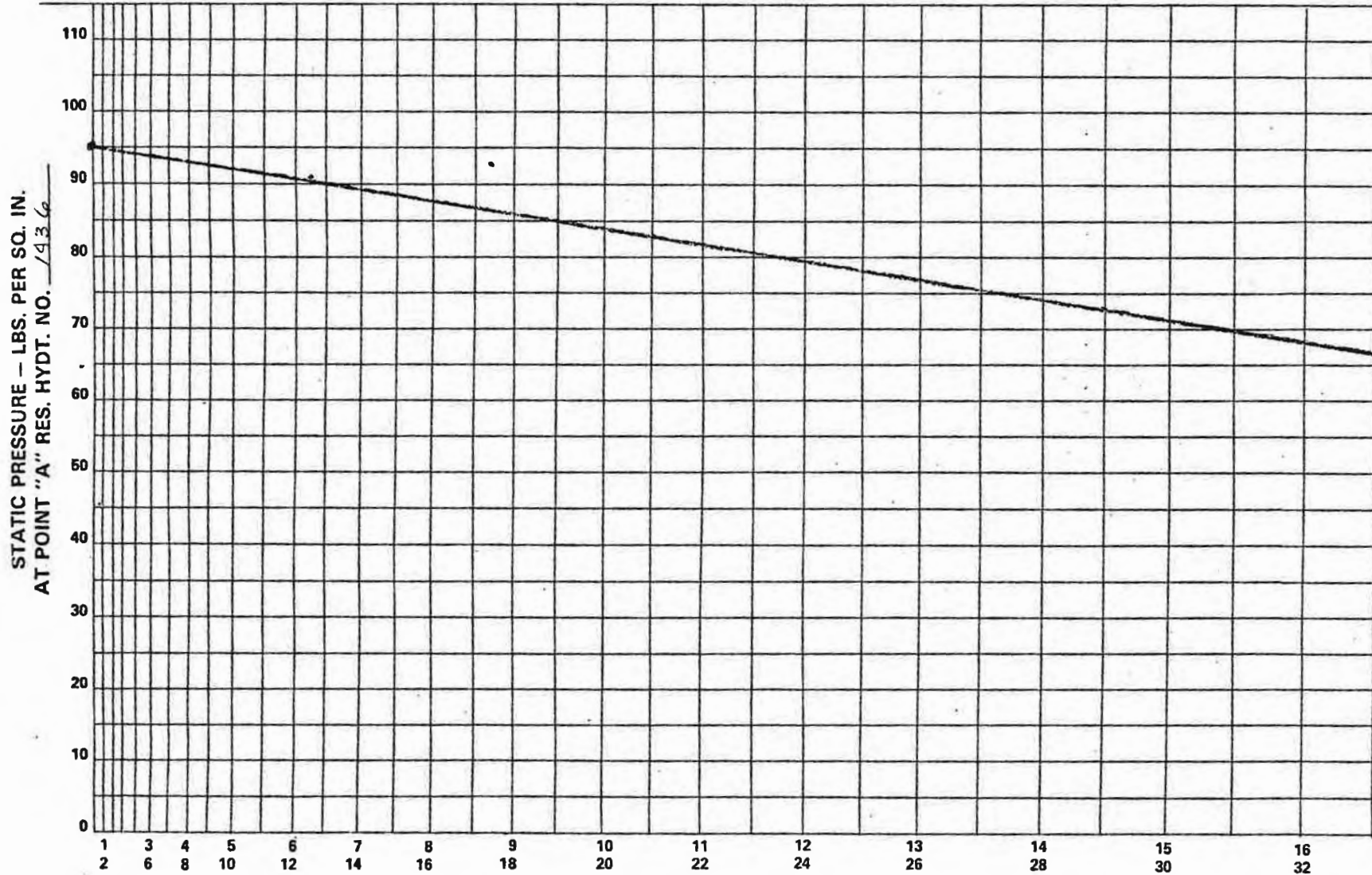
-President-
Vice-President

FLOW (ST

DATE: 9-30-85
TIME: 3:00 PM Page 46 of 79
MAW_R_LFUCGDR1 NUM034_012519
POINT "B" FLOW HYDT. NO. 1437
STATIC PRESS.: 113 P.S.I.
PITOT PRESS.: 77 P.S.I.
FLOW: 1470 G.P.M.

POINT "A" RES. HYDT. NO.: 1436
STATIC PRESSURE: 95 P.S.I.
RESIDUAL PRESSURE: 73 P.S.I.

KY. American Water Co.
COMPANY



FLOW-100 GALS. PER MIN.
AT POINT "B" FLOW HYDT. NO. 1437

res | | | | |
a. | | | | |
al | | | | |
1. | | | | |
| | | | |

A flow test was made in the following manner:

Hydrant # 1436 on Bizzell Street was selected as the residual hydrant (.A). Hydrant # 1437 on Bizzell Street was selected as the flow hydrant (.B).

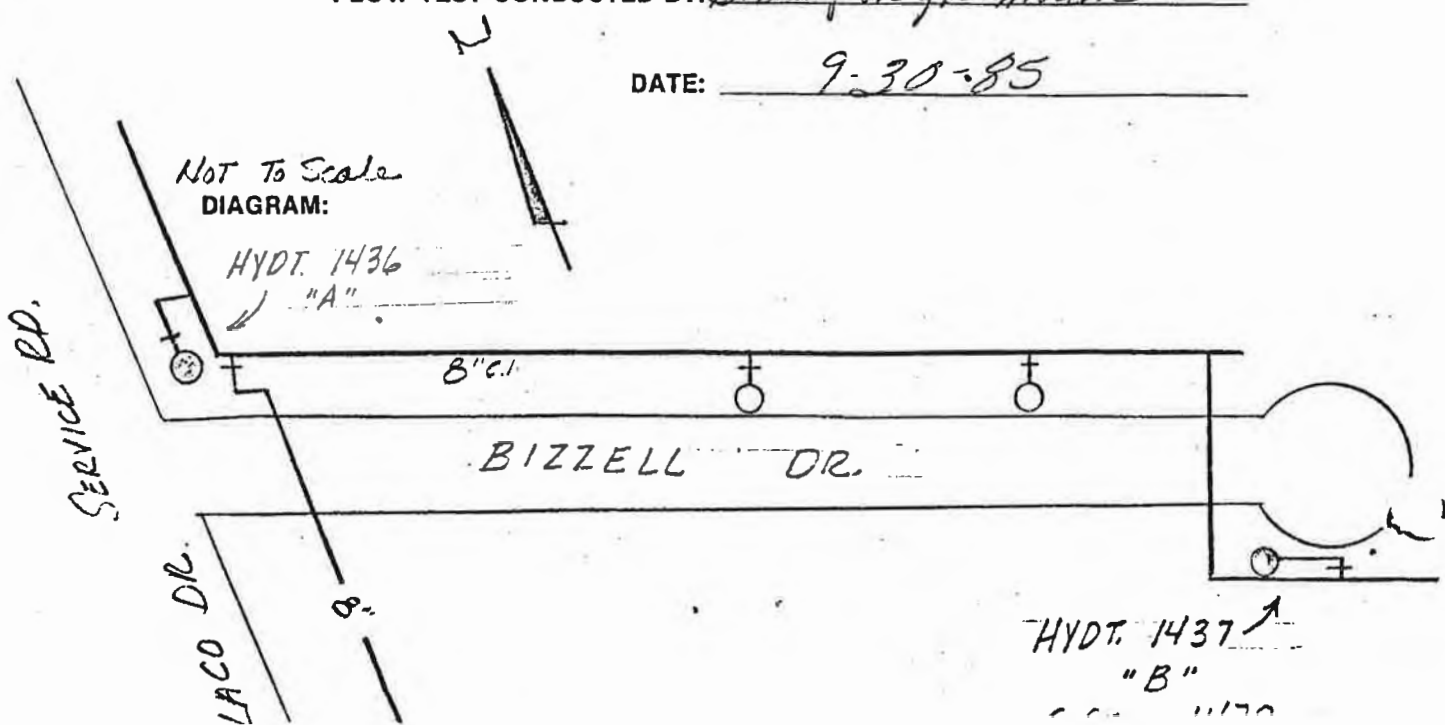
Static pressure at .A was 95 p.s.i. before the flow test.

Static pressure at .B was 113 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 73 lbs. Pitot pressure at .B was 77 lbs. Actual flow at .B was 1470 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 95 lbs. and the static pressure at .B was 113 lbs. This flow test was made using one 2½" outlet at Hydrant # 1437.

FLOW TEST CONDUCTED BY: B. Thompson & W. Mott

DATE: 9-30-85



KENTUCKY - AMERICAN WATER COMPANY
DATA SHEET FOR PROPOSED FIRE
SERVICE INSTALLATION

INCLUDING FIRE PUMP AND RELATED FACILITIES

Name of Applicant Lexington Fayette Urban County Government

Address: 200 East Main Street, Lexington, Kentucky 40507

Phone: 254-0512 Date service requested ASAP

So that we may further process the proposed fire service installation you have requested, we will require the following information:

1. The building to be served by this fire service will be used as:
Auto & Truck Repair For Urban County Vehicles
2. The building will be constructed of Steel & Masonry
3. The building will have a roof constructed of Steel
4. There will be 443 sprinkler heads in the building.
5. There will be 2 hydrants in or surrounding the building.
6. There will be 0 hose closets in the building.
7. Fire Pump Data: N/A Maximum g.p.m. at _____ total head.
8. The maximum height of the sprinkler heads above ground level will be 18'.
9. Fire flow requirements 900 g.p.m. at 35 p.s.i. residual pressure at the vault or service connection to Water Company main.
As required by: Factory Insurance Association
Factory Mutual
Kentucky Inspection Bureau Other ISO
10. There will be 40000 square feet sprinkled.
11. There will be 1 floors in the structure to be protected.
12. Name or Company for which contracts are to be prepared: Lexington Fayette Urban County Government. Incorporated in the State of NA
13. Contracts to be sent to: James L. Preston
whose address is 200 East Main Street, Lex, KY. 40507 for signatures
14. Fire service size 8 inch.

By: _____ Date: 1/15/87

ORH 484
1984
REV. 8-11-84

WORK ORDER SKETCH

PROPOSED
COMPLETION

WORK ORDER NO. A6085.M

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____

PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____

OVERALL LENGTH OF MAINS INSTALLED 350' SIZE 8" AND KIND OF PIPE D.I.

OVERALL LENGTH OF MAINS REMOVED
ABANDONED SIZE _____ AND KIND OF PIPE _____

REMARKS A6085.5 EASEMENTS RELATED INVESTMENT OR RETIREMENT WORK ORDER NO. _____

KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY CITY MAINTENANCE BUILDING

MAP NO. W203.95E MAP CO-ORDINATES _____ TAX DISTRICT LEX FAY FULL

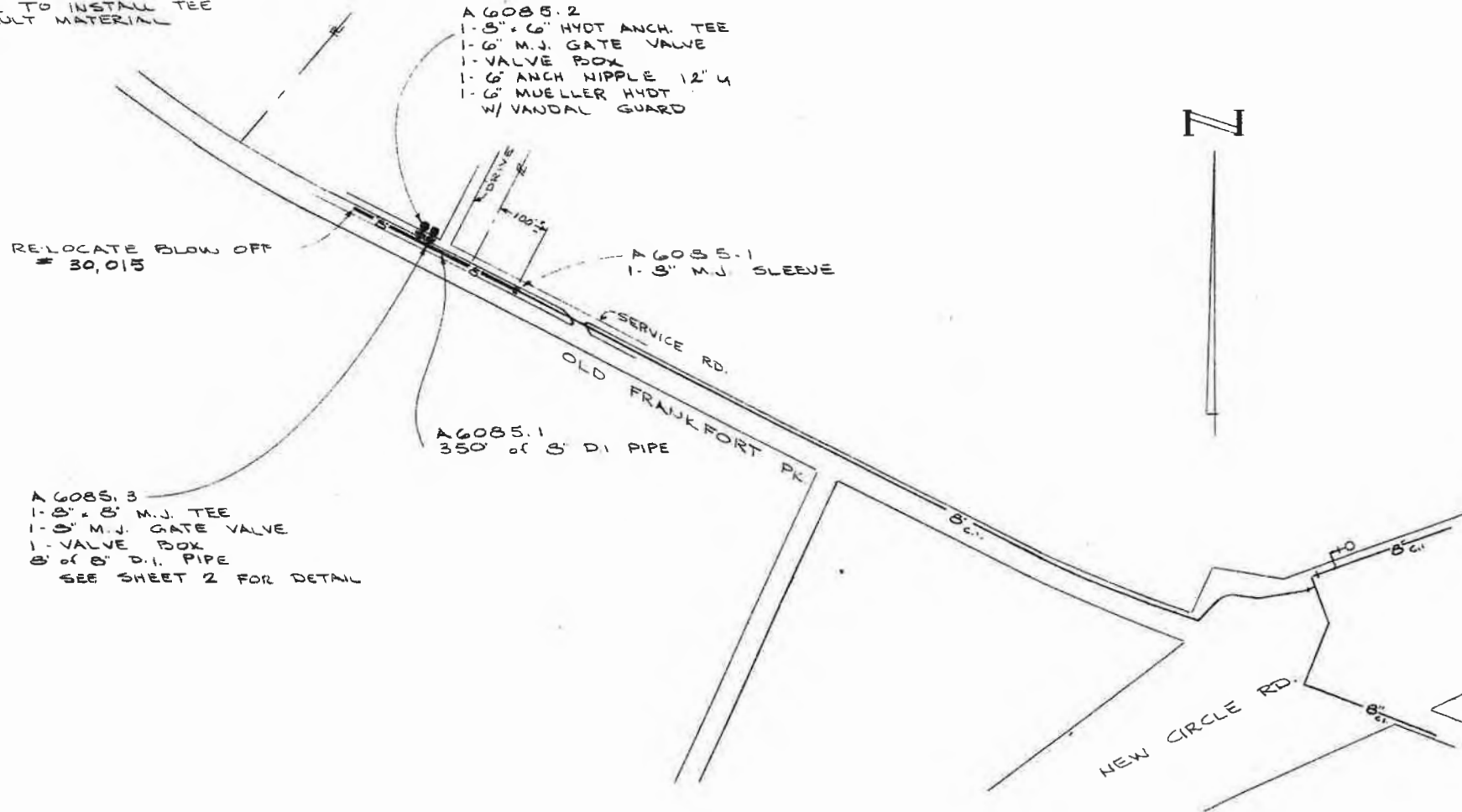
CUSTOMER RELATIONS _____ MGR. _____ DATE COMPLETED _____ DATE OF RETIRED _____

SCALE 1"=300' DRAWN BY J. VICE
SHEET 1 of 1 INSPECTOR _____

EASEMENTS

NOTE:

FIRE SERVICE CONTRACTOR TO INSTALL TEE & FURNISH VAULT MATERIAL



- A6085.2
- 1- 1.5" x 6" HYDT ANCH. TEE
- 1- 6" M.J. GATE VALVE
- 1- VALVE BOX
- 1- 6" ANCH NIPPLE 12" L
- 1- 6" MUELLER HYDT W/ VANDAL GUARD

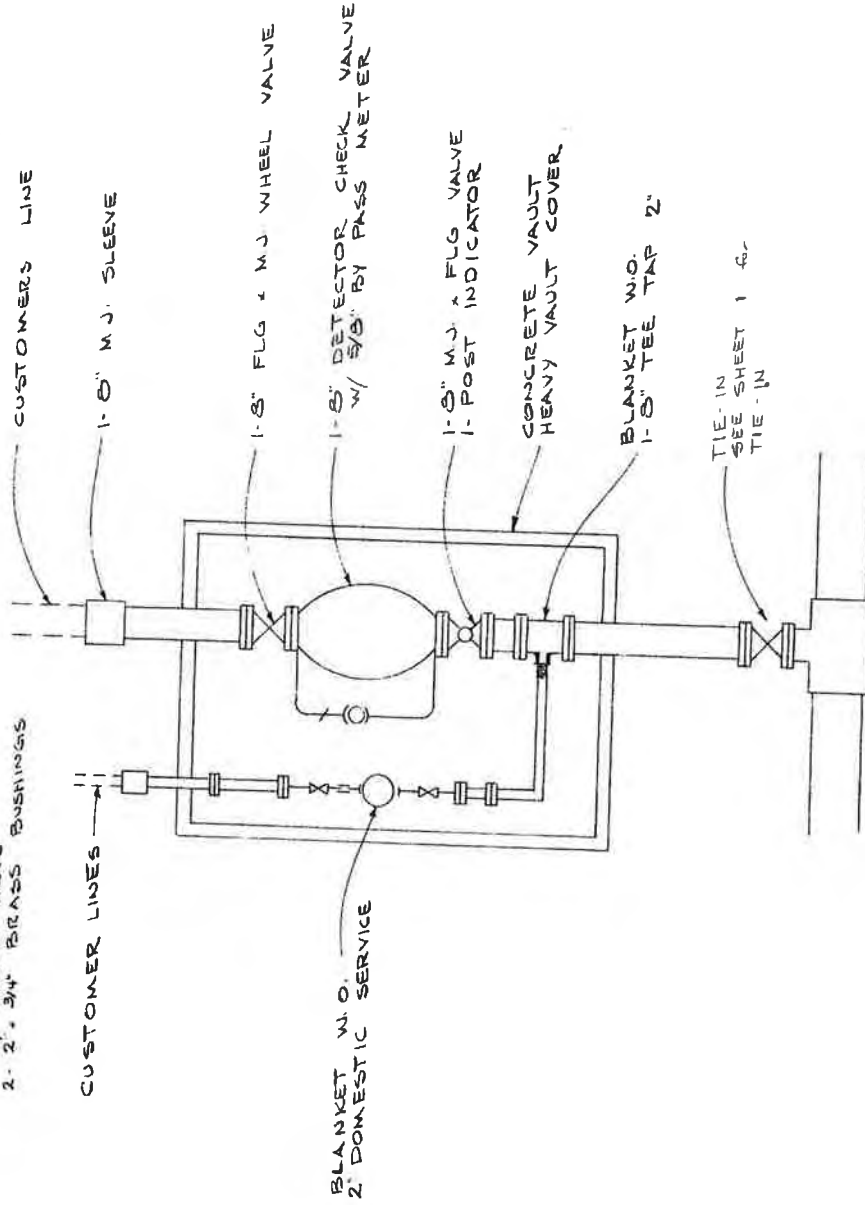
A6085.1
1.5" M.J. SLEEVE

A6085.1
350' of 8" D.I. PIPE

- A6085.3
- 1- 1.5" x 8" M.J. TEE
- 1- 8" M.J. GATE VALVE
- 1- VALVE BOX
- 8' of 8" D.I. PIPE
- SEE SHEET 2 FOR DETAIL

RELOCATE BLOW OFF # 30,015

- 2 - 3/4" BRASS NIPPLES
- 2 - 3/4" BRASS 90° ST. ELLS
- 2 - 3/4" COPPER TO IRON
- 4' of 3/4" COPPER TUBING
- 1 - 3/4" V82/10 SETER
- W/ CHECK VALVE
- 2 - 2 x 3/4" BRASS BUSHINGS



LOCAL COPY
APPLICATION FOR SPECIAL CONNECTION

Account No. 377-9270
 Service No. 79136-A
 Contract No. 1138
 Work Order No. A7174M

3779270

This Application, made in triplicate this 21 day of AUGUST, 1991 by _____
Lexington-Fayette Urban County Government

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect an eight inch service pipe to the street main of the Water Company on East Vine Street between Limestone Street and Rose Street in the City of Lexington and attach to said service pipe the following fixtures and openings:

an eight inch service line, detector check valve with bypass meter, post indicator

and all related control valves and fittings to supply a sprinkler system of

approximately 1,722 sprinkler heads covering approximately 156,600 square feet

of parking garage space

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

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Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington Fayette Urban County Government

200 East Main Street

Lexington, Kentucky 40507

(Applicant's Name & Title, Please Print or Type)

WITNESS: Mary C. Galey
Signature

Robert P. Clark Executive Director
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this 15 day of August, 19 91

WITNESS: Frank D. King

Harry F. McLeans
(Chief of Fire Department)

County/City of Lexington

Company hereby accepts the foregoing Application this 21st day of August, 19 91

WITNESS: Paul Paul

Steven R. Slade
(Operations Manager)

WITNESS: Paul Paul

R. A. Clark
(President or Vice President)

LOCAL COPY
APPLICATION FOR SPECIAL CONNECTION

Account No. 377-2490
 Service No. 7917A
 Contract No. 1139
 Work Order No. A7310H

3772490

This Application, made in triplicate this 25 day of JUNE, 1991, by _____
LEXINGTON FAYETTE URBAN COUNTY GOVERNMENT

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a FOUR inch service pipe to the street main of the Water Company on North Mill Street between Second Street and Third Street in the City of Lexington and attach to said service pipe the following fixtures and openings:

a four inch service line, detector check valve with bypass meter, post indicator

and all related control valves and fittings to supply a sprinkler system of

approximately 240 sprinkler heads covering approximately 25,020 square feet of

learning center space (Carnegie Literacy Center)

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

1990 JUN 23

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington Fayette Urban County Government

266 East Main Street

Lexington, Kentucky 40507

(Applicant's Name & Title, Please Print or Type)

WITNESS: Robert D. Wise
Signature

Scotty Baul
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this 15 day of _____, 19 _____

WITNESS: Inan Ritz

Ray F. McConis
(Chief of Fire Department)

County/City of Lexington

Company hereby accepts the foregoing Application this 25th day of June, 1991

WITNESS: Sal Paul

Juan R. Stode

(Operations Manager)
Engineering

WITNESS: Sal Paul

R. F. Elena
(President or Vice President)

APPLICATION FOR SPECIAL CONNECTION

LOCAL COPY

 Account No. 377-7020
 Service No. 79652
 Contract No. 1154
 Work Order No. A7405M

3777028

 This Application, made in triplicate this 27th day of March, 19 92, by
Lexington-Fayette Urban County Government

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

 The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a six inch service pipe to the street main of the Water Company on Red Mile Place between Red Mile Road and end of street in the City of Lexington and attach to said service pipe the following fixtures and openings:

a six inch service line, detector check valve w/bypass meter, post indicator and

all related control valves and fittings to supply a sprinkler system of approximately

168 sprinkler heads covering approximately 19,000 sq. ft. of office and meeting area

space

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington-Fayette Urban County Government

200 East Main Street

Lexington, KY 40507

(Applicant's Name & Title, Please Print or Type)

WITNESS:

X Liz Danneil
Signature

X Scotty Boesler
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this 6th day of March, 19 92

WITNESS: Susan Lamb

Nary F. McLean
(Chief of Fire Department)

County/City of Lexington

Company hereby accepts the foregoing Application this 27th day of March, 19 92

WITNESS: Patricia Ballard

Sue R. Hade
(Operations Manager)

WITNESS: Patricia Ballard

B. H. Elms
(President or Vice President)

APPLICATION FOR SPECIAL CONNECTION

LOCAL COPY

 Account No. 377-5018-0
 Service No. 79681
 Contract No. 1156
 Work Order No. A7424M

3775018

This Application, made in triplicate this 18th day of February, 19 92, by
Lexington-Fayette Urban County Government

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a six inch service pipe to the street main of the Water Company on Old Frankfort between New Circle and _____ in the City of Lexington and attach to said service pipe the following fixtures and openings:

a six inch service line, detector check w/bypass meter, post indicator and

all related control valves and fittings to supply a sprinkler system of

approximately 198 sprinkler heads covering approximately 18,000 square feet

of Roll Call Center space

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington-Fayette Urban County Government

200 East Main Street

Lexington, Kentucky 40508

(Applicant's Name & Title, Please Print or Type)

WITNESS: Steve D. Wilson
Signature

Scott Baer
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this _____ day of _____, 19 _____

WITNESS: Ernie Dug

Ray T. McLeary
(Chief of Fire Department)

County/City of Lexington

Company hereby accepts the foregoing Application this 18th day of February, 19 92

WITNESS: Patricia Ballard

Susan R. Glade
(Operations Manager)

WITNESS: Patricia Ballard

R. H. Edens
(President or Vice President)

APPLICATION FOR SPECIAL CONNECTION

LOCAL COPY

Account No. 377-9370
 Service No. 79730
 Contract No. 1158
 Work Order No. A7419M

3779370

This Application, made in triplicate this 5th day of February, 1992, by
Lexington-Fayette Urban County Government

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a six inch service pipe to the street main of the Water Company on Water between Ayres and Rosa in the City of Lexington and attach to said service pipe the following fixtures and openings:

a six-inch service line, detector check valve with bypass meter, post indicator and
all related control valves and fittings to supply a sprinkler system of approximately
625 sprinkler heads covering approximately 36,118 square feet of theater and office
space (Kentucky Theater)

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington-Fayette Urban County Government

200 East Main Street

Lexington, KY 40507

(Applicant's Name & Title, Please Print or Type)

WITNESS: Cassie Jelf
Signature

x Nancy F. McCombs, Fire Chief
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this _____ day of _____, 19 _____

WITNESS: Cassie Jelf

Robert D. Wiser
for (Chief of Fire Department) Mayor

Mayor/City of Lexington

Company hereby accepts the foregoing Application this 5th day of February, 19 92

WITNESS: Patricia Ballard

James R. Side

(Operations Manager)

WITNESS: Patricia Ballard

R. H. Edens

Engineer

(President or Vice President)

APPLICATION FOR SPECIAL CONNECTION

LOCAL COPY

Account No. 3772867
 Service No. 80047
 Contract No. 1175
 Work Order No. A7483M

This Application, made in triplicate this 5th day of May, 19 92, by _____

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a four inch service pipe to the street main of the Water Company on West Loudon between Newtown and Russell Cave in the City of Lexington and attach to said service pipe the following fixtures and openings:

a four inch service line, detector check valve w/bypass meter, post indicator and all related control valves and fittings to supply a sprinkler system of approximately 270-280 sprinkler heads covering approximately 28,000± sq. ft. of Homeless Shelter space

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

First: That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.

Second: That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.

Third: That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.

Fourth: That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.

Fifth: That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.

Sixth: That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.

Seventh: That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.

Eighth: That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall then be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.

Ninth: That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.

Tenth: That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.

Eleventh: That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.

Twelfth: That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington-Fayette Urban Co. Government

200 East Main Street

Lexington, Kentucky 40502

(Applicant's Name & Title, Please Print or Type)

WITNESS:

x [Signature]
Signature

x [Signature] Mayor
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this _____ day of _____, 19 _____

WITNESS:

[Signature]

[Signature]
(Chief of Fire Department)

x City / City of Lexington

Company hereby accepts the foregoing Application this 18th day of May, 19 92

WITNESS:

[Signature]

[Signature]

(Operations Manager)
Engineering

WITNESS:

[Signature]

[Signature]
(President or Vice President)



Kentucky-American Water Company

2300 Richmond Road • Lexington, Kentucky 40502

606-269-2386

M E M O R A N D U M

TO: GARY STAGGS
FROM: TOM FRILEY *Tom*
DATE: APRIL 7, 1992
RE: FIRE FLOW FOR WEST LOUDON AVENUE EXTENDED

The above referenced project has been reviewed using Kentucky-American's current computerized hydraulic model, annual pressure tests of the area, and a actual flow test conducted on February 28, 1991.

The hydraulic model has predicted the residual pressure to be 60 PSI during peak usage.

Annual pressure tests have documented an average value of 70 PSI.

The flow test produced a static pressure of 94 PSI and a residual of 88 PSI at 3260 GPM.

Using the 60 PSI valve to be as conservative as possible, the calculated residual will be 34 PSI less than the recorded reading during the flow test.

Based on this information and the attached graph of the flow test the 500 GPM at 38 PSI requested can be provided.

TF:cso



LOCATION: West Loudon Ave. Ext. **Kentucky-American Water Company**

Shelter For Homeless

POINT "A" RES. HYDT. NO. 4693

STATIC PRESSURE: 94 P.S.I.

RESIDUAL PRESSURE: 88 P.S.I.

FLOW TEST

DATE: 2-28-92

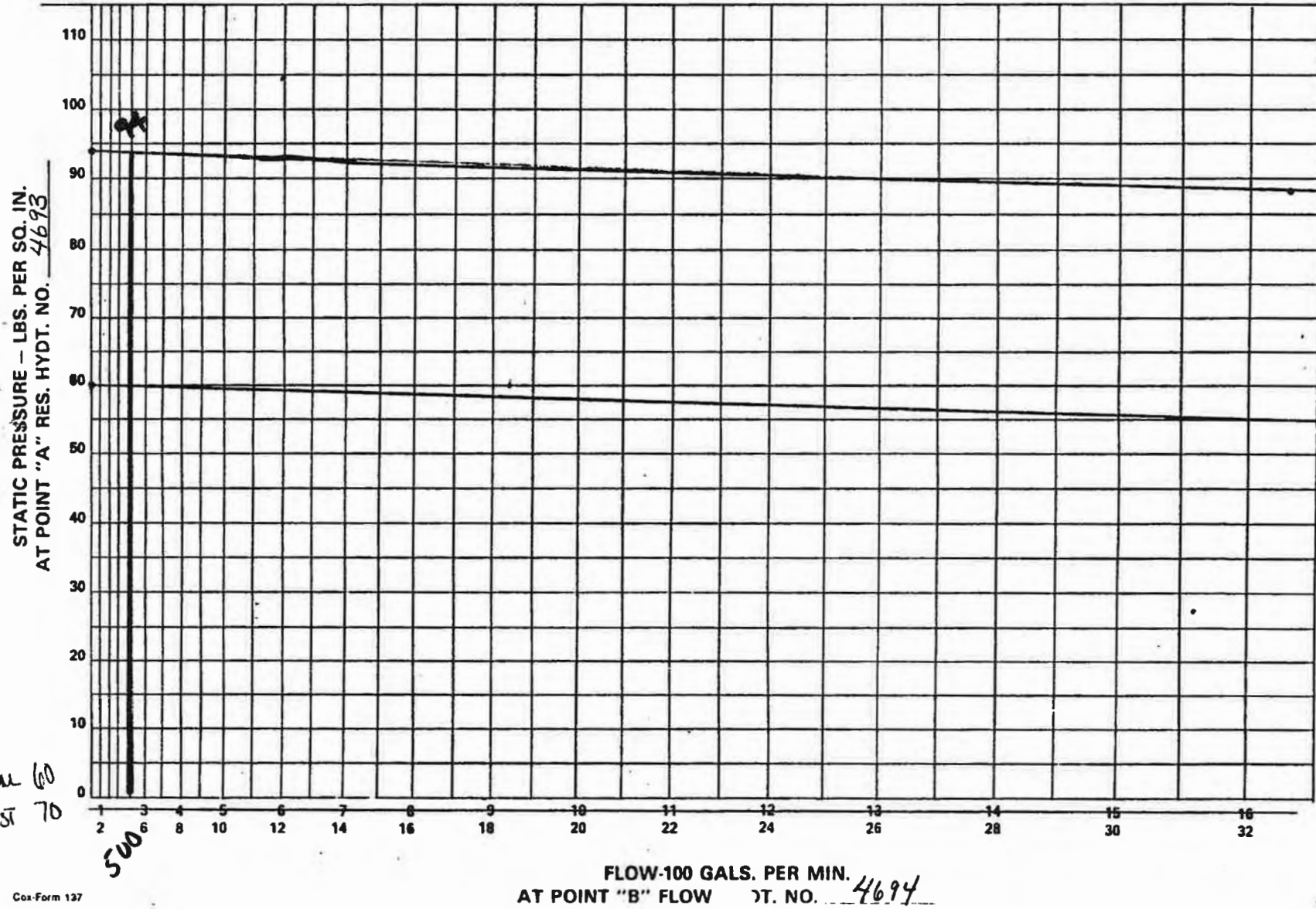
TIME: 1:00 A.M.

POINT "B" FLOW HYDT. NO. 4694

STATIC PRESS.: 82 P.S.I.

PITOT PRESS.: 36 P.S.I. - 4 1/2" outlet

FLOW: 3260 G.P.M.



Model 60
Test 70

A flow test was made in the following manner:

Hydrant # 4693 on Louden Ave. Ext. Street was selected as the residual hydrant (.A). Hydrant # 4694 on Louden Ave. Ext. Street

was selected as the flow hydrant (.B).

Static pressure at .A was 94 p.s.i. before the flow test.

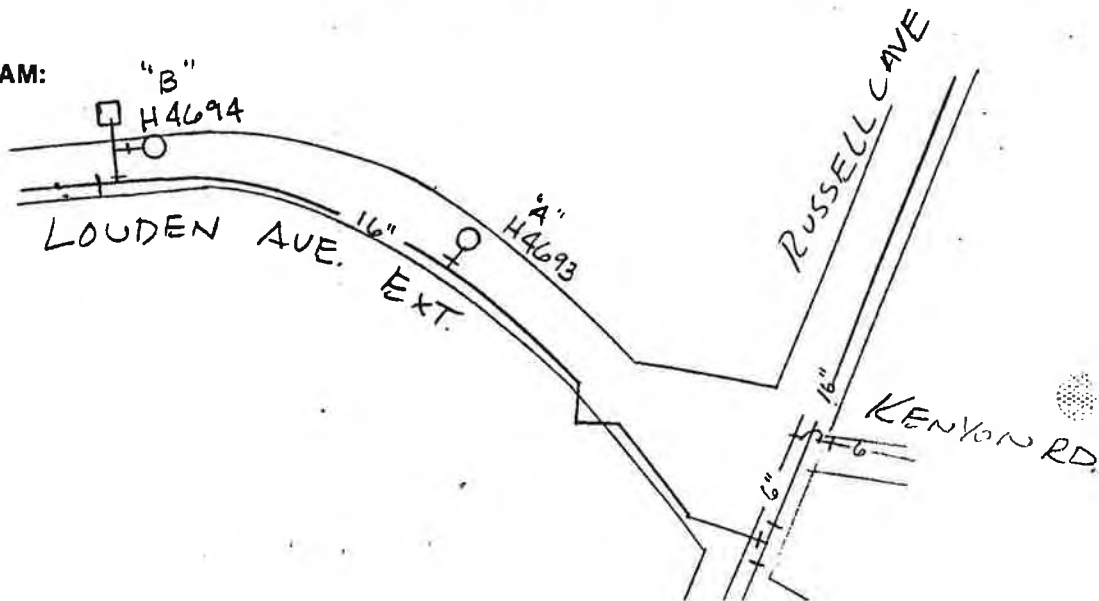
Static pressure at .B was 82 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 88 lbs. Pitot pressure at .B was 36 lbs. Actual flow at .B was 3260 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 94 lbs. and the static pressure at .B was 82 lbs. This flow test was made using one ^{4 1/2"} 2 1/2" outlet at Hydrant # 4694.

FLOW TEST CONDUCTED BY: Morton + Watts

DATE: 2-28-92

DIAGRAM:



KENTUCKY-AMERICAN WATER COMPANY
DATA SHEET FOR FIRE SERVICE INSTALLATION INCLUDING FIRE PUMP AND RELATED FACILITIES

Address of Service: LEX. HOMELESS SHELTER 111. LOUDEN AVE

Contact Person: _____ Phone: _____ Date Service Requested _____

Occupant (if different from owner): _____

Name or Company in which contracts are to be prepared: LEXINGTON - FAYETTE
URBAN CO. GOVT. Incorporated in the State of KY

Mailing Address: _____

Contracts (for signatures) to be sent to: JIM PRESTON

The following information is required in order to process this application:

- The building to be served by this fire service will be used as:
R-1 HOTEL / HOMELESS SHELTER
- The building will be constructed of STEEL TRUSSES & BLOCK
- The building will have a roof constructed of STANDING SEAM METAL
- There will be 270-280 sprinkler heads in the building.
- There will be TWO hydrants in or surrounding the building.
- There will be - hose closets in the building.
- Fire Pump Data: - maximum g.p.m. at - total head.
- The maximum height of the sprinkler heads above ground level will be 30'.
- Fire flow requirements 500 g.p.m. at 38 p.s.i. residual pressure at the vault or service connection to Water Company Main at 972 ft. elevation (USGS Datum).

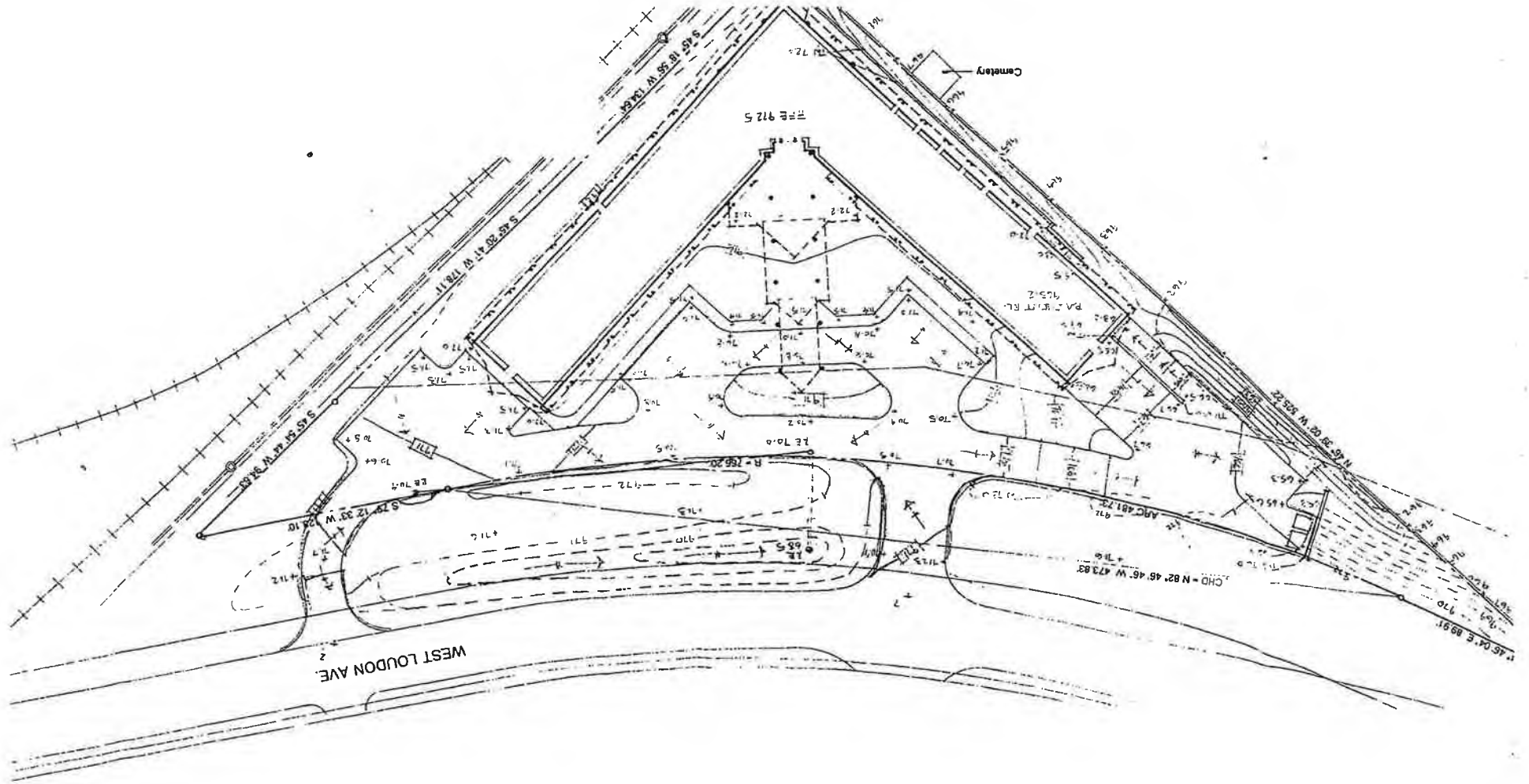
As required by: Factory Insurance Association Factory Mutual
Kentucky Inspection Bureau Other

Name of Insurance Company: _____

- There will be ≈ 28,000[#] square feet sprinkled.
- There will be TWO floors in the structure to be protected.
- Will chemical or antifreeze be added to water lines? Yes No
(Note: If chemicals, or antifreeze are added at any later date, customer must notify Kentucky-American.)
- Will any Auxilliary Supply be used in conjunction with this service? Yes _____ No
- Fire Service Size: 4" inch.

Data Sheet completed by: Name MATT FELLIS

Company for JERRY TAYLOR & ASSOC. Date 3/30/92



WORK ORDER SKETCH

PROPOSED
COMPLETION

WORK ORDER NO. **A7432H**

HOMELESS SHELTER

SUB-DIVISION

KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY

MAP NO. **N 203-106 E**

TAX DISTRICT **LEX. PAY. FULL**

NEW DEVELOPMENT COORDINATOR _____ 19____ DATE _____

COMPLETED _____

SCALE **" = 40.0'**
SHEET **1** of **1**

DRAWN BY **T.L. SMITH**
INSPECTOR _____

DATE **4/13/92**

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____

PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____

OVERALL LENGTH OF MAINS INSTALLED **1471'** SIZE **16"** KIND OF PIPE **D.I.**

No. of HYDRANTS INSTALLED **2** REMOVED **ES** **6'** **4"** **D.I.**

No. of HYDRANTS REPLACED **1/2** ABANDONED

No. of HYDRANTS RETIRED **1/2**

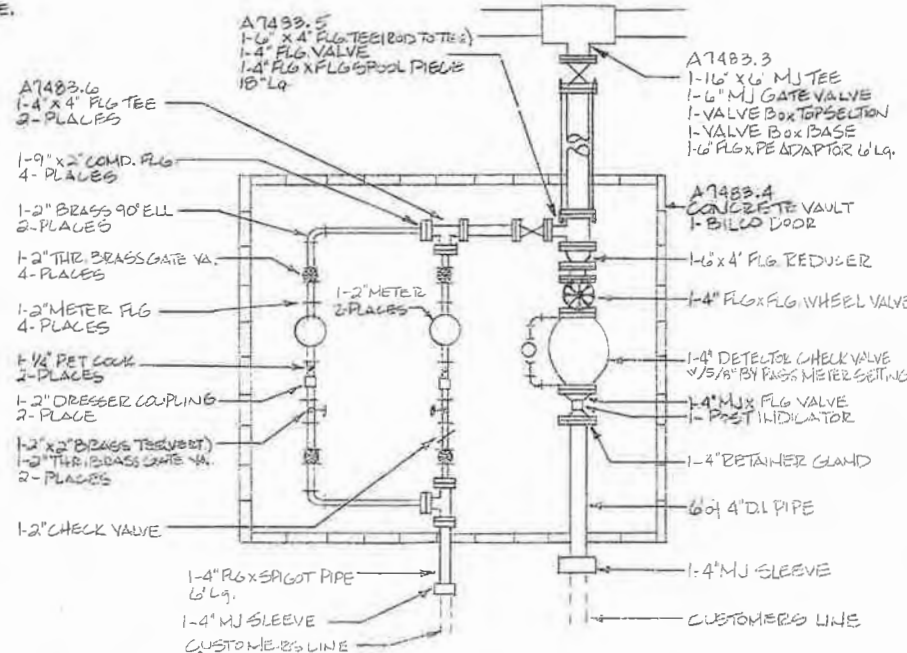
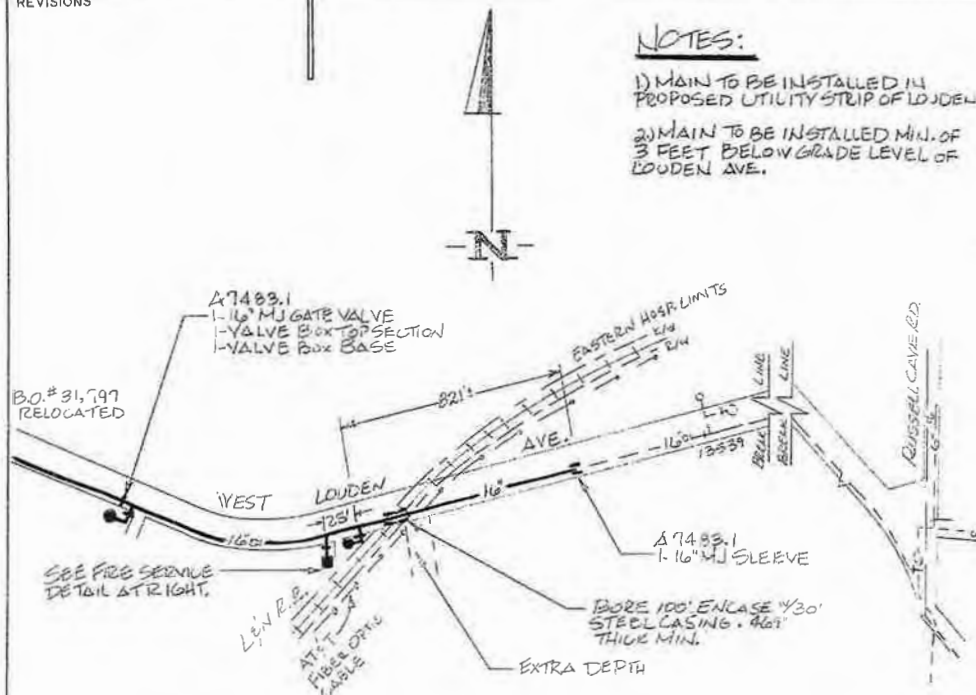
REMARKS _____ RELATED INVESTMENT OR RETIREMENT _____ WORK ORDER NO. **11/A**

REVISIONS

EASEMENTS

NOTES:

- 1) MAIN TO BE INSTALLED IN PROPOSED UTILITY STRIP OF LOUDEN AVE.
- 2) MAIN TO BE INSTALLED MIN. OF 3 FEET BELOW GRADE LEVEL OF LOUDEN AVE.



HYDRANTS:

- A7483.2
- 2-16" X 6" MJ TEES
- 2-6" MJ GATE VALVES
- 2- VALVE BOX TOP SECTIONS
- 2- VALVE BOX BASES
- 2-6" HYD ANCH. NIPPLES 18" LG.
- 2-6" HYD ANCH. 90° BENDS
- 2-6" MJ HYDRANTS

NOTE:

THE LOCATION OF THE INDICATOR POST IS SUBJECT TO CHANGE DUE TO ACTUAL FIELD CONDITIONS.

MISC. MATERIAL:

- 6-2" BRASS NIPPLES 4" LG.
- 8-2" BRASS NIPPLES 6" LG.
- 3-2" BRASS PIPE CUT TO LENGTH APPROX 12" LG.

APPLICATION FOR SPECIAL CONNECTION

LOCAL COPY

Account No. 3774540
Service No. 80048 80607
Contract No. 1176
Work Order No. A7474M

This Application, made in triplicate this 26th day of June, 19 92, by LEXINGTON-PAYETTE URBAN COUNTY GOVERNMENT

hereinafter called the "Applicant," to KENTUCKY-AMERICAN WATER COMPANY, A Kentucky corporation, 2300 Richmond Road, Lexington, Kentucky, hereinafter called the "Water Company."

The Applicant, upon the terms and conditions hereinafter set forth, hereby applies to the Water Company for a private fire service connection consisting of the right to connect a eight inch service pipe to the street main of the Water Company of Hasterson Station Park between Leestown and Spurr in the City of Lexington and attach to said service pipe the following fixtures and openings:

- an eight inch service line, detector check valve with bypass meter, post indicator**
- and all related control valves and fittings to supply a sprinkler system of**
- approximately 500± sprinkler heads covering approximately 26,150± sq. ft. of**
- equestrian arena and multi-purpose barn space**

all of which fixtures and openings to be located within or upon the premises of the Applicant abutting the street on which the said main of the Water Company is located.

In consideration for which privilege the Applicant agrees to be bound by all the terms and conditions of this application and pay the Water Company for private fire protection service at the schedule of rates in effect from time to time during the rendition of such service.

The further terms and conditions upon which this application may be accepted by the Water Company are as follows:

- First:** That this application and the acceptance thereof by the Water Company may be subject to the prior approval of the fire department having jurisdiction of the premises to be served.
- Second:** That the entire service system on Applicant's premises shall be subject to the inspection, test and approval of the Water Company, and the Water Company by its representatives, shall have the right to enter the premises of the Applicant at any reasonable time for the purpose of making such reasonable inspections as it may deem necessary, and to insure compliance with the terms and conditions of this application.
- Third:** That all pipes and appurtenances shall be constructed and maintained in good condition by and at the expense of the Applicant.
- Fourth:** That a fire line meter or detector device, approved by both the Water Company and the fire underwriters, will be required on the service at a location approved by the Water Company. Such meter or device shall be installed and maintained by and at the cost and expense of the Applicant, but subject to the inspection and approval of the Water Company. The by-pass meter only, used with the detector device, shall be furnished, installed and maintained by the Water Company at its cost and expense.
- Fifth:** That a gate valve with the post indicator controlling the entire supply shall be placed at the curb or property line of the street in which the main is located or at such other point as may be approved by the Water Company, and shall be furnished, installed and maintained by and at the expense of the Applicant, and unless otherwise approved by the Water Company, said valve shall be installed in a valve pit or vault which shall also be furnished, installed and maintained by and at the expense of the Applicant.
- Sixth:** That all hydrants and other fixtures connected to any private fire protection service system shall be kept closed and sealed, and not opened or used except during times of fire or testing. Upon extinguishment of each fire or following each test, the Applicant shall immediately close such fixtures and notify the Water Company so that they may be sealed. Whenever a private fire protection service system is to be tested, the Applicant shall notify the Water Company at least two business days in advance of such proposed test, requesting approval of the method, day, and hour on which it is to be made.
- Seventh:** That no antifreeze or any other substance, not specifically approved by the Environmental Protection Agency as a non-detrimental to the public water supply, shall be introduced into sprinkling systems or into any pipe, fixture, appurtenance or other portion of the Applicant's private fire protection service system.
- Eighth:** That the Applicant understands and agrees that the extent of the rights of the Applicant under this application is to receive, at times of fire on said premises, such supply of water as shall when be available and no other or greater quantity. The Applicant further acknowledges and agrees the Water Company shall not be considered in any way or manner an insurer of property or persons, or to have undertaken to extinguish fire or to protect any persons or property against loss or damage by fire, or otherwise, and the Water Company shall be free and exempt from any and all claims for damages on account of any injury to property or persons by reason of fire, water, failure to supply water or pressure, or for any other cause whatsoever.
- Ninth:** That this application does not contemplate uses of fixtures other than those shown on Exhibit A. Any waste of water or use of water through this connection for purposes other than testing or the extinguishment of fire, shall be deemed a violation of the terms and conditions of this Application and of the rules, regulations and conditions of service of the Water Company.
- Tenth:** That if private fire hydrants are included as part of this Application, they shall be painted any color other than that adopted by the Water Company for public fire hydrants.
- Eleventh:** That the Applicant shall furnish, attach and make a part hereof marked Exhibit A, three (3) complete sets of drawings showing the pipes, pumps, valves, hydrants, sprinkler systems, hose outlets and connections, standpipes, tanks and other openings and appurtenances contemplated in this application. Such drawings, which shall be stamped "Approved" by the Insurance Services Office or other comparable agency approved by the Water Company, must also show all other water supply systems and pipelines and appurtenances which are proposed or which may exist on the premises to be served.
- Twelfth:** That no pipe, fixture or appurtenance connected with the private fire protection service served by this application shall be connected with any pipe, fixture or appurtenance supplied with water from any other source, unless specifically approved in writing by the Water Company.

Thirteenth: That the Applicant agrees to obtain in writing in advance the approval of the Water Company for any change, alteration, addition or deletion contemplated in the pipes, fixtures, openings and appurtenances and uses herein specified. Notwithstanding the approval of the Water Company, Applicant agrees that, except for those facilities which the Water Company had specifically agreed to provide and maintain, Applicant is and will be solely responsible for the design, adequacy, function and maintenance of its private fire protection service system referred to in this application.

Fourteenth: That the Water Company has the right to discontinue or disconnect the service pipe herein applied for, and to terminate service under this application, after due written notice to the Applicant, for failure to pay any bill when due, for failure to supply information to Water Company about the service system when so requested in writing, for leakage within Applicant's system, for violation of any of the terms and conditions of this application, or for any violation of its rules, regulations and conditions of service; and the Water Company also has the right to shut off all or any part of its facilities by the Water Company (1) if a condition dangerous or hazardous to life, physical safety or property exists, (2) upon order by any court, the Public Service Commission or other duly authorized public authority, (3) if fraudulent or unauthorized use of water by Applicant is detected, or if the Water Company's regulating or measuring equipment has been tampered with by Applicant.

Fifteenth: That upon acceptance of this application by the Water Company and the completion of the installation of the service applied for, this application shall be in full force and effect as a contract and shall continue as such until cancelled by written notice given thirty (30) days in advance by the Applicant to the Water Company, except as otherwise provided in numbered paragraph (14) above.

Sixteenth: The acceptance of this application by the Water Company must be executed by its Operations Manager and its President or Vice President before same becomes effective.

Seventeenth: If ownership of the property served by the service applied for herein changes, notice thereof shall be given to Water Company within thirty (30) days and the new owner shall be identified by name, address and proper person to contact.

IN WITNESS WHEREOF, the Applicant has hereunto signed the day and year

Lexington-Fayette Urban Co. Government

200 East Main Street

Lexington, Kentucky 40507

(Applicant's Name & Title, Please Print or Type)

WITNESS:

x Liz Danuell
Signature

x Scotty Bards
Signature and Title of Applicant or Duly Authorized Representative

APPROVED this 12th day of June, 19 92

WITNESS:

Frank Dzy

Nancy F. McLean
(Chief of Fire Department)

County/City of Lexington

Company hereby accepts the foregoing Application this 26th day of June, 19 92

WITNESS:

Patricia Ballard

SS [Signature]
(Operations Manager)

WITNESS:

Patricia Ballard

R A Edens
(President or Vice President)



Kentucky-American Water Company

2300 Richmond Road • Lexington, Kentucky 40502

606-269-2386

M E M O R A N D U M

TO: GARY STAGGS
FROM: TOM FRILEY *Tom*
DATE: 23 MARCH 1992
RE: FIRE FLOW FOR MASTERSON STATION PARK

The above referenced project has been reviewed using Kentucky-American's current computerized hydraulic model, annual pressure tests of the area, and a actual flow test conducted on August 2, 1990.

The hydraulic model has predicted the residual pressure to be n/a PSI during peak usage.

Annual pressure tests have documented an average value of 58 PSI.

The flow test produced a static pressure of 70 PSI and a residual of 54 PSI at 905 GPM.

Using the 54 PSI valve to be as conservative as possible, the calculated residual will be 16 PSI less than the recorded reading during the flow test.

Based on this information and the attached graph of the flow test the 1,000 GPM at 40 PSI requested can be provided.

TF:cso





Kentucky-American Water Company

2300 Richmond Road • Lexington, Kentucky 40502

606-269-2386

MEMORANDUM

TO: GARY STAGGS
FROM: THOMAS A. FRILEY, P.E.
DATE: MARCH 23, 1992
RE: MASTERSON STATION PARK

A fire flow request has been submitted on the above referenced location. The request is for 1,000 GPM at 40 PSI residual. This flow is required after long runs of 8-inch main.

Under periods of extreme demand for the Midway master meter, the 8-inch main along Leestown Road is extremely taxed and the 1,000 GPM at 40 PSI for Masterson Station will not be met.

This occurrence would mainly affect the second hydrant approximately 6,500 L.F. from Leestown Road.

TF:so

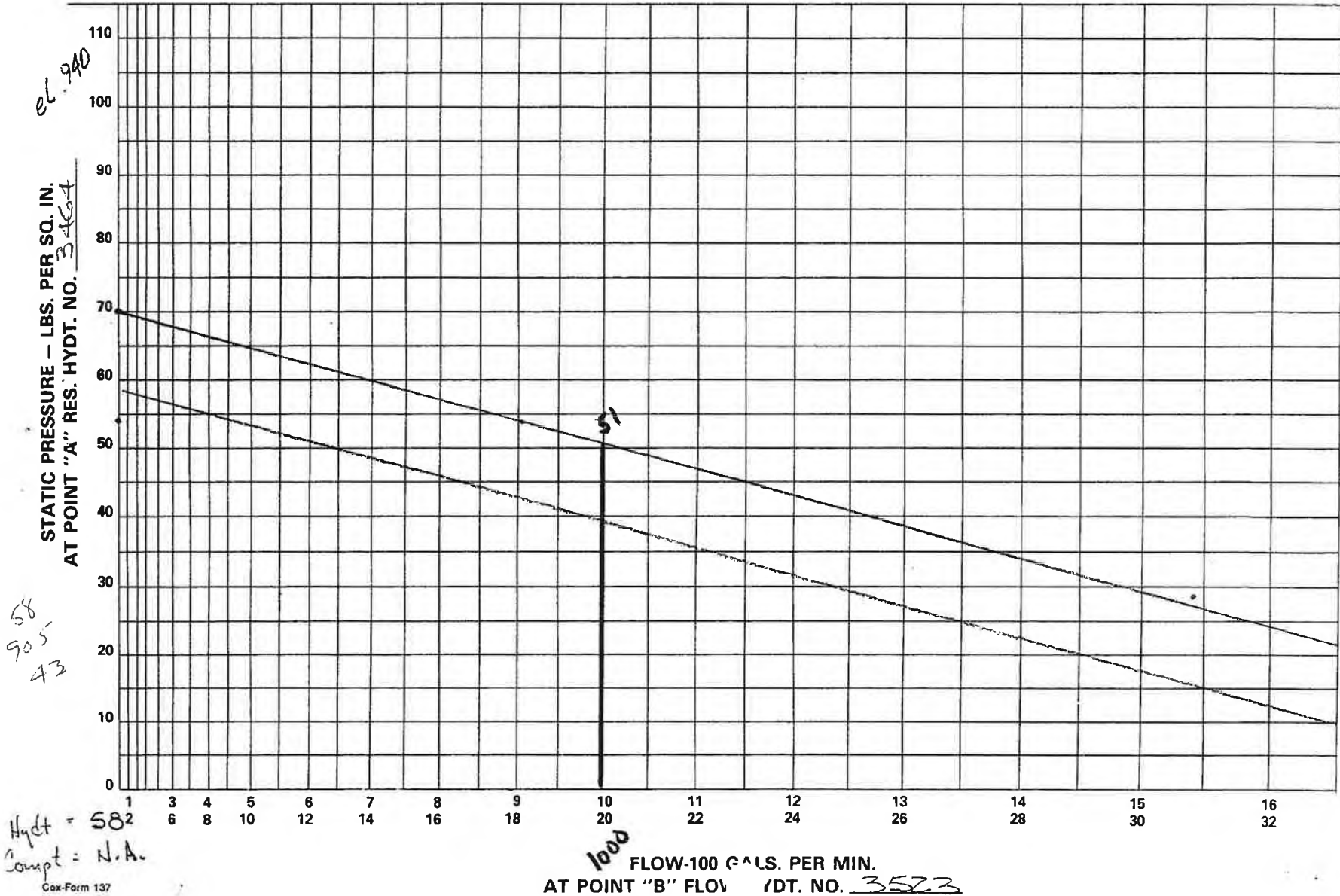


LOCATION: LEESTOWN
RD. @ LEESWAY DR.
 POINT "A" RES. HYDT. NO.: 3464
 STATIC PRESSURE: 70 P.S.I.
 RESIDUAL PRESSURE: 54 P.S.I.

Kentucky-American Water Company

FLOW TEST

DATE: 8-2-90
 TIME: 8:38 AM
 POINT "B" FLOW HYDT. NO. 3523
 STATIC PRESS.: 73 P.S.I.
 PITOT PRESS.: 29 P.S.I.
 FLOW: 905 G.P.M. 2 1/2" OUTLET



A flow test was made in the following manner:

Hydrant # 3464 on LEESTOWN ^{RD.} Street was selected as the residual hydrant (.A). Hydrant # 3523 on LEESTOWN ^{RD.} Street

was selected as the flow hydrant (.B).

Static pressure at .A was 70 p.s.i. before the flow test.

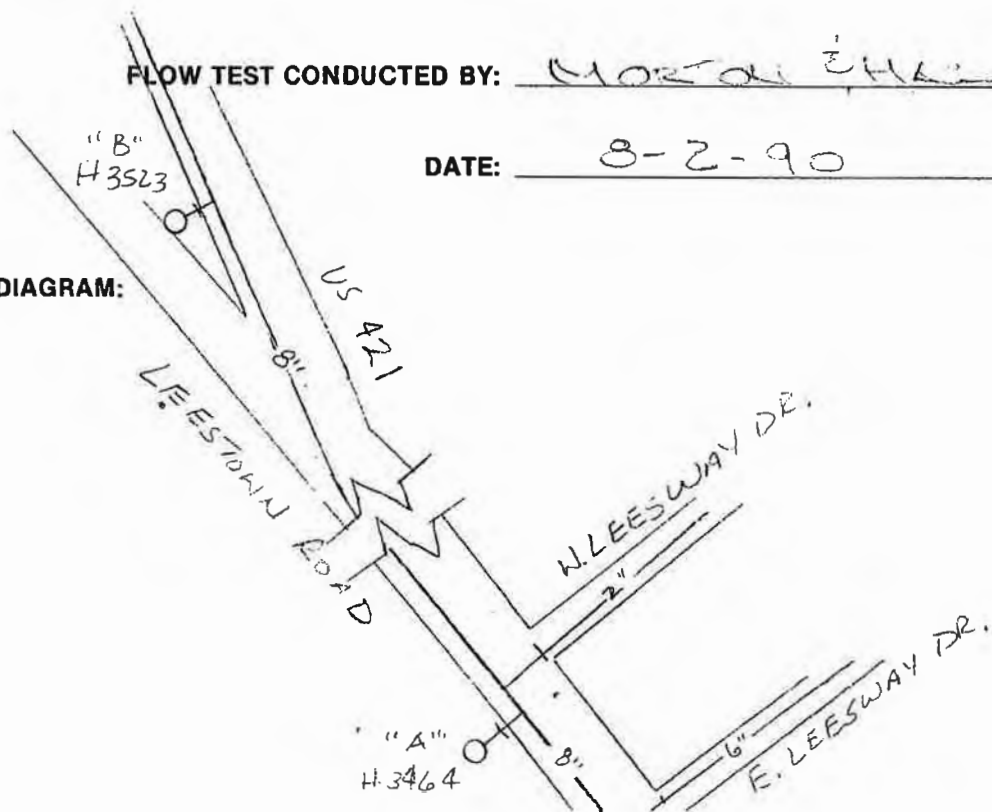
Static pressure at .B was 73 p.s.i. before the flow test.

With the hydrant at .B flowing, residual pressure at .A was 54 lbs. Pitot pressure at .B was 29 lbs. Actual flow at .B was 905 g.p.m. After a two minute flow from the hydrant at .B, the static pressure at .A was 70 lbs. and the static pressure at .B was 73 lbs. This flow test was made using one 2½" outlet at Hydrant # 3523

FLOW TEST CONDUCTED BY: MORTON EHLER

DATE: 8-2-90

DIAGRAM:



12

KENTUCKY-AMERICAN WATER COMPANY
DATA SHEET FOR FIRE SERVICE INSTALLATION INCLUDING FIRE PUMP AND RELATED FACILITIES

Address of Service: MASTERTSON STATION PARK

Contact Person: John McGehee Phone: 255-0835 Date Service Requested TBD

Occupant (if different from owner): _____

Name or Company in which contracts are to be prepared: LEXINGTON-FALLETTE
URBAN COUNTY GOVERNMENT. Incorporated in the State of KY

Mailing Address: 200 E MAIN ST, LEX KY 40507

Contracts (for signatures) to be sent to: STAN ROTH

The following information is required in order to process this application:

1. The building to be served by this fire service will be used as:
EQUESTRIAN ARENA & MULTI-PURPOSE
2. The building will be constructed of METAL & WOOD
3. The building will have a roof constructed of METAL
4. There will be 500 ± sprinkler heads in the building.
5. There will be 1 hydrants in or surrounding the building.
6. There will be 0 hose closets in the building.
7. Fire Pump Data: NA maximum g.p.m. at _____ total head.
8. The maximum height of the sprinkler heads above ground level will be _____.
9. Fire flow requirements 1000 g.p.m. at 40 p.s.i. residual pressure at the vault or service connection to Water Company Main at 892.5 ft. elevation (USGS Datum).

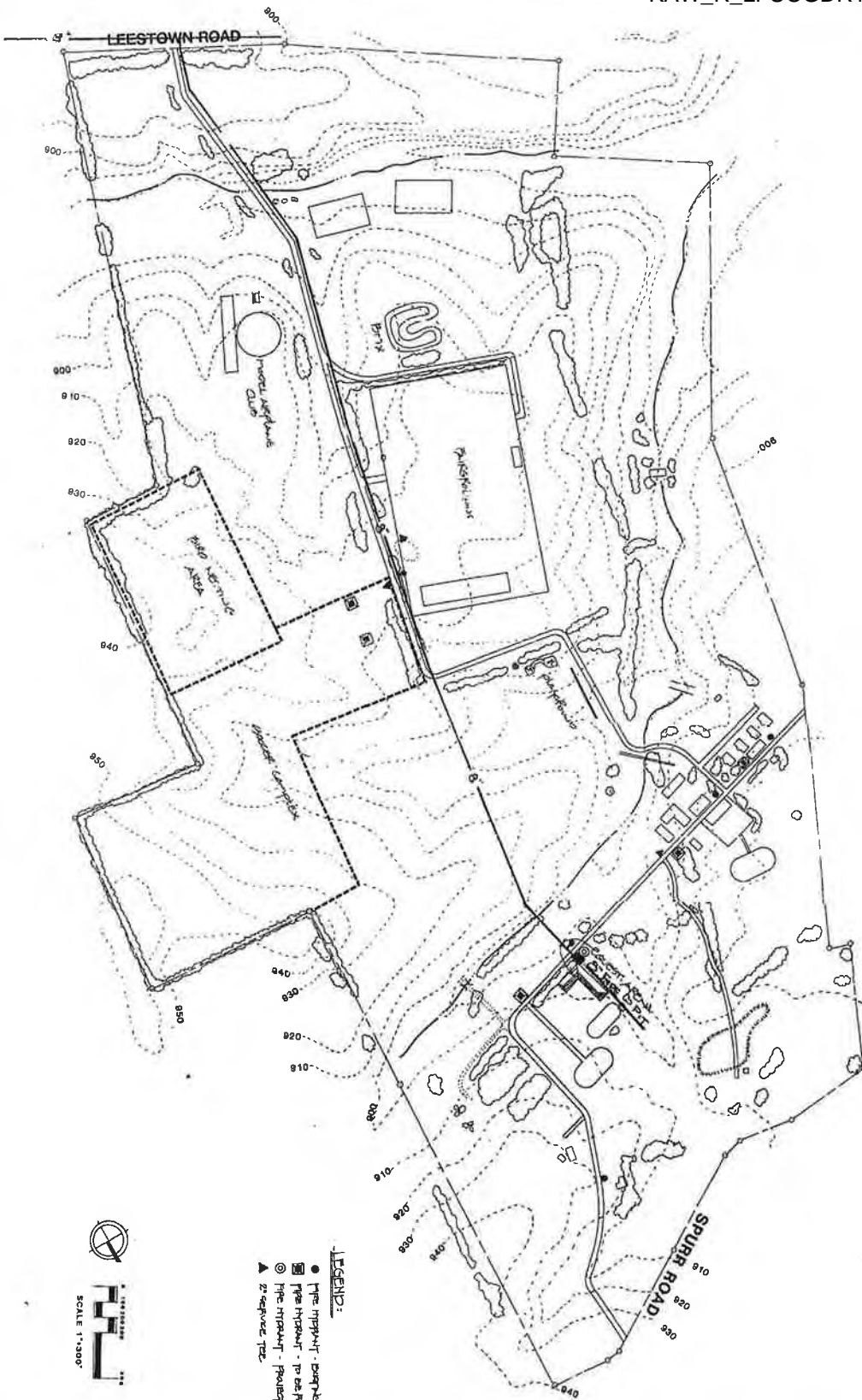
As required by: Factory Insurance Association Factory Mutual
Kentucky Inspection Bureau Other

Name of Insurance Company: LEWIS - SELF INSURED

10. There will be 26,150 ± square feet sprinkled.
11. There will be 2 floors in the structure to be protected.
12. Will chemical or antifreeze be added to water lines? Yes No
(Note: If chemicals or antifreeze are added at any later date, customer must notify Kentucky-American.)
13. Will any Auxilliary Supply be used in conjunction with this service? Yes No
14. Fire Service Size: 8 inch.

Data Sheet completed by: Name WALTER WILSON

Company LEWIS - TRUCK & RECEPTION Date 3-9-92



- LEGEND:**
- Pipe Support - Existing
 - Pipe Support - To be Removed
 - Pipe Support - Proposed
 - ▲ 2" Square Top



WORK ORDER SKETCH

PROPOSED
 COMPLETION
 WORK ORDER NO. A7474M

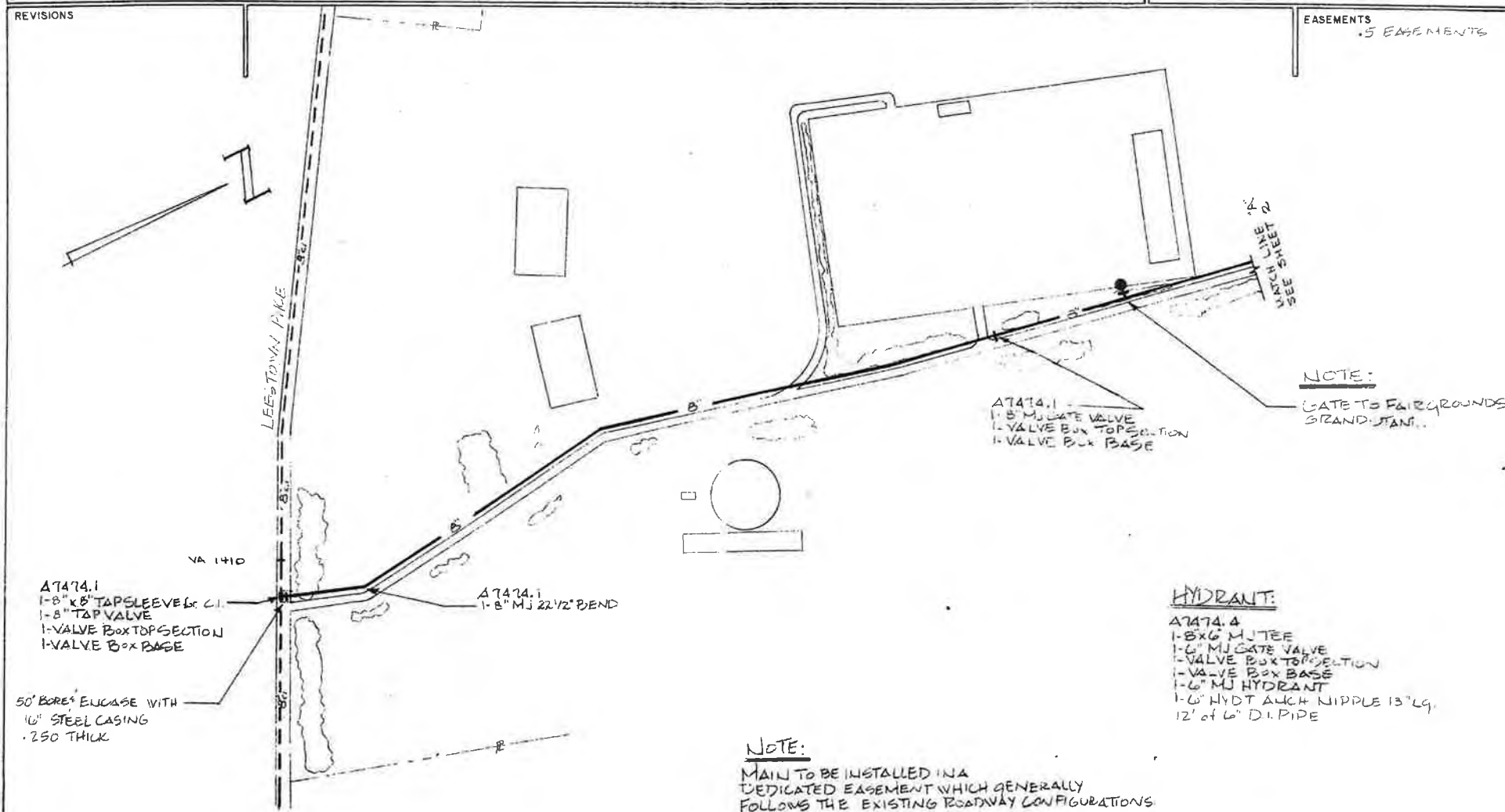
KENTUCKY-AMERICAN WATER COMPANY AT LEXINGTON, KY
 NAME OF COMPANY
 MAP NO. N 213-85E
 NEW DEVELOPMENT COORDINATOR _____ 19____ DATE COMPLETED _____
 SCALE 1" = 400' DRAWN BY J. VICE DATE 2-27-92
 SHEET 1 of 2 INSPECTOR _____ DATE _____

TRENCH: AVER. DEPTH _____ AVER. WIDTH _____ KIND SOIL _____ KIND ROCK _____
 PAVING: KIND _____ LENGTH CUT _____ WIDTH CUT _____
 OVERALL LENGTH OF MAINS INSTALLED 1,671.0 SIZE 8" KIND OF PIPE D.I.
 No. of HYDRANTS INSTALLED ALT. HYD
 No. of HYDRANTS REPLACED N/A ABANDONED 8" D.I.
 No. of HYDRANTS RETIRED N/A HYDT 12' 6" D.I.

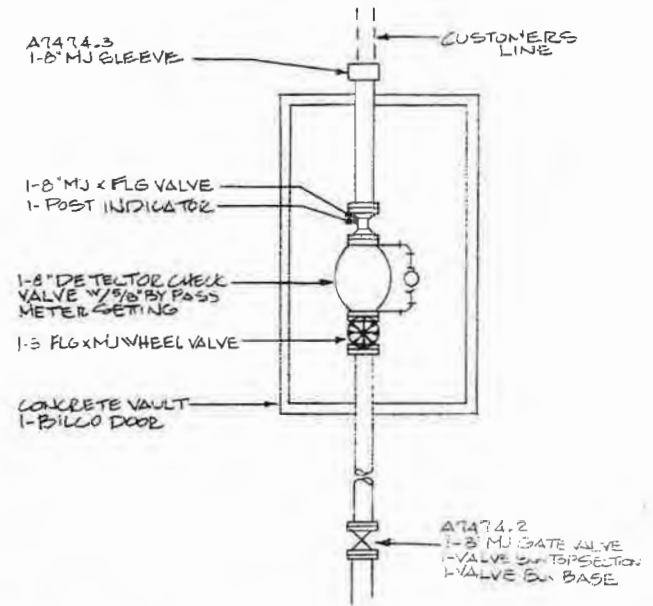
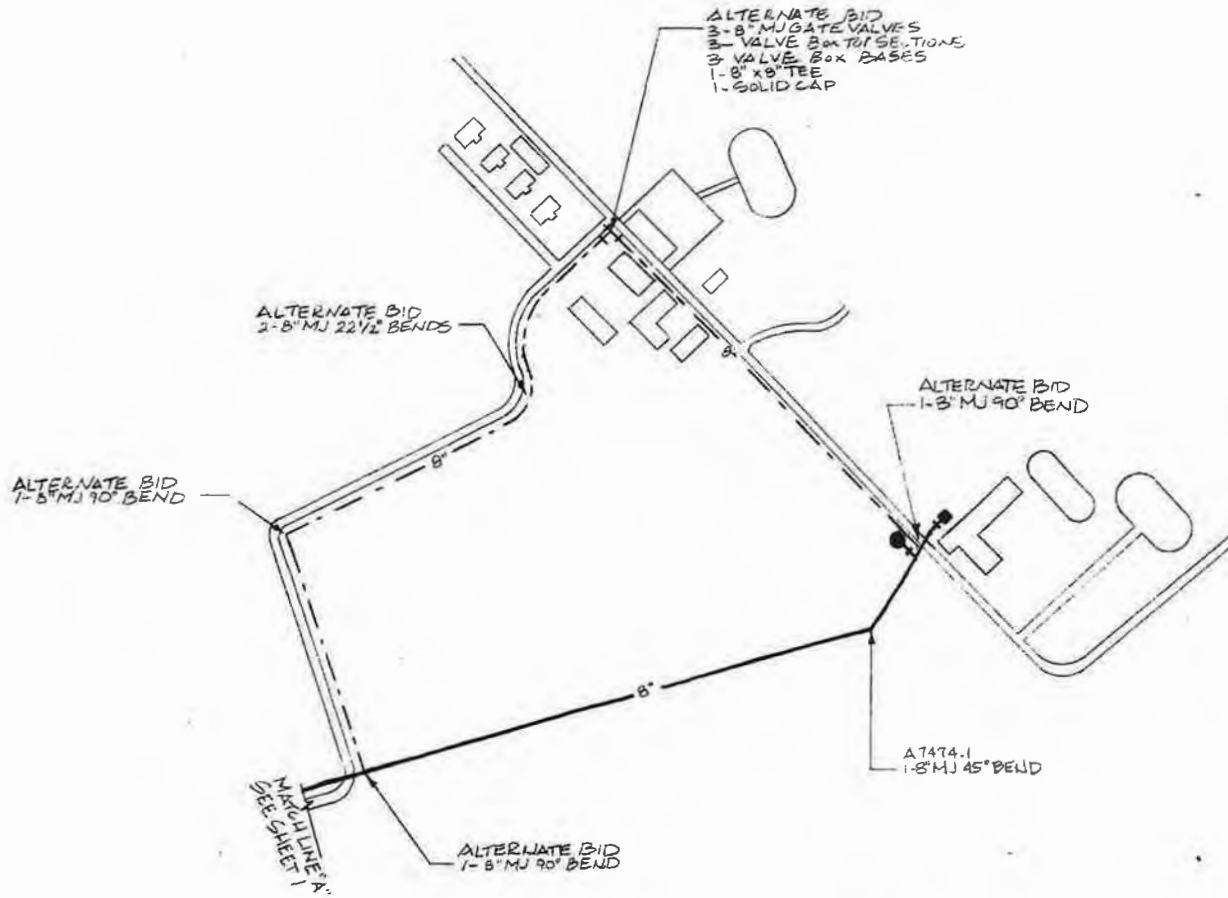
REMARKS _____ RELATED INVESTMENT RETIREMENT WORK ORDER NO. N/A

REVISIONS

EASEMENTS
.5 EASEMENTS



A7474M
 1" = 400'
 2-27-92
 SHEET 2 of 2



HYDRANT:

- A7474.4
- 1-8' x 8' MJ TEE
- 1-8' MJ GATE VALVE
- 1- VALVE BOX TOP SECTION
- 1- VALVE BOX BASE
- 1-6\"/>

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell, Brent E. O'Neill

35. What depreciable life basis (if any) for each type of fire hydrant does KAWC utilize? Is this the industry standard service? If not, please explain.

Response:

The depreciable life for fire hydrants for KAWC is 70 years. All types of fire hydrants have the same average life. The industry range is 55-75 years for fire hydrants.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 36.** What is the individual fire flow requirement to which KAWC's water system in Fayette County has been designed and/or built?
- (a) Does this differ in any way from the historical or current actual performance level of the system?
 - (b) How often is this tested?
 - (c) Are these results provided to the LFUCG Division of Fire and Emergency Services?

Response:

Since 1885, when the distribution system within Fayette County first went into service, expectations of the system's ability to provide fire flow have changed. Because the system was built and expanded at different periods of time there is no specific fire flow requirement to which the system has been built. KAW typically follows the guidelines that hydrants flow at least 500 gallons per minute with a residual pressure of at least 20 pounds per square inch (psi).

If the LFUCG Fire Department requests a hydrant installation to support the community or a new area being developed and the requested hydrant cannot provide 500 gallons per minute at 20 psi, the Fire Department is specifically asked if a hydrant should still be installed despite lower flow conditions.

The 500 gallons per minute with 20 psi residual is a minimum, and much greater flow is available at a majority of locations throughout the system.

- (a) Because there has not been a historical performance level there is no ability to perform a performance level test.
- (b) The system on the whole is not tested, however on an annual basis, individual fire hydrants are tested and information is collected.
- (c) Yes, hydrant testing results are provided to the LFUCG Division of Fire and Emergency Services.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

37. What is the minimum fire flow protection required to meet ISO guidelines? Please provide any supporting documentation.

Response:

The ISO has developed a GUIDE FOR DETERMINATION OF NEEDED FIRE FLOW, which is available through a link on the ISO Mitigation Needed Fire Flow site (<https://www.isomitigation.com/ppc/technical/needed-fire-flow/>).

ISO developed the Needed Fire Flow through a review of actual large-loss fires. ISO recorded the average fire flow and other important factors, including construction type, occupancy type, area of the building, and exposures. Those factors are the foundation of the needed fire flow formula:

$$\text{NFFi} = (\text{Ci})(\text{Oi})[1.0 + (\text{X} + \text{P})\text{i}]$$

where

NFFi = the needed fire flow in gallons per minute (gpm)

Ci = a factor related to the type of construction and effective area

Oi = a factor related to the type of occupancy

X = a factor related to the exposure hazard of adjacent buildings

P = a factor related to the communication hazard with adjacent buildings

To calculate the NFF of a building, you will need to determine the predominant type (class) of construction, size (effective area) of the building, predominant type (class) of occupancy, exposure to the property, and the factor for communication to another building.

Needed fire flow will range from 500 gpm to 12,000 gpm for individual properties. ISO will not consider a hydrant in its rating that does not flow at least 500 gpm, and will not evaluate a community unless it can produce 250 gpm for fire flow for 2 hours at a 20 psi residual pressure.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 38.** Please provide the annual use of water for fire service for calendar years 2012- 2015, inclusive, and for each month as it is or becomes available during the base period. If water use for fire service has been projected for the forecasted test period, please provide that projection as well.

Response:

After consultation with LFUCG counsel, KAW provides 2015-2018 information instead of 2012-2015 info as stated in the question.

Description (1,000 gallons)	2015	2016	2017	2018	Test Year
Fire Usage	4,798	6,730	10,927	8,311	-

Description (1,000 gallons)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2015	385	-	601	610	246	423	249	283	401	437	602	561	4,798
2016	285	945	335	272	329	670	673	628	1,043	537	507	506	6,730
2017	610	1,064	(22)	621	1,092	684	2,839	737	949	1,070	887	398	10,927
2018	670	1,060	637	613	601	281	579	386	1,713	491	535	744	8,311

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

39. What is the basis for the 10,000 gpm of fire flow (KAWC Exhibit 36, Schedule C)?

Response:

The basis for the system fire demand is based on a formula established by the National Board of Fire Underwriters using the population of the area served, as follows:

a) For populations of 200,000 or less:

$$Q = 1020\sqrt{P}(1 - 0.01\sqrt{P})$$

Where Q is the fire demand in GPM and P is the population in thousands.

b) For populations in excess of 200,000,

$$Q = 12,000 \text{ GPM plus } 2,000 \text{ to } 8,000 \text{ GPM for a potential second fire.}$$

Based on an estimated population of 500,000, a fire demand of 12,000 GPM would apply (see part b of the formula) plus approximately 3,000 GPM for a population well in excess of 200,000, for a total fire demand of approximately 15,000 GPM.

For cost allocation purposes, 10,000 GPM was used. This is the same as was used in the cost of service for Case No. 2015-00418.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

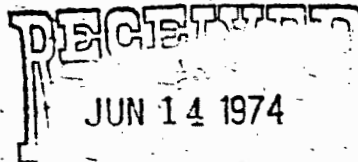
Witness: Constance E. Heppenstall

40. What is the basis for the utilizing a 10-hour demand for fire flow on KAWC Exhibit 36, Schedule C?

Response:

The 10-hour demand for fire flow is based on the attached Grading Schedule for Municipal Fire Protection published by the Insurance Services Office. The 10-hour demand is based on required fire flow of 10,000 gpm.

GRADING SCHEDULE FOR MUNICIPAL FIRE PROTECTION



GANNETT PLEASANTVILLE Y 3
CARPENTE



INSURANCE SERVICES OFFICE

160 WATER STREET

NEW YORK, N. Y. 10038

1974

GRADING SCHEDULE

WATER SUPPLY

An adequate and reliable water supply is an essential part of the fire-fighting facilities of a municipality.

Minimum Recognized Water Supply. In order to be recognized for grading purposes, a water supply shall be capable of delivering at least 250 gpm for a period of 2 hours, or 500 gpm for one hour, for fire protection plus consumption at the maximum daily rate. Any water supply which cannot meet this minimum requirement shall not be graded, and a deficiency of 1,950 points shall be assigned.

Adequacy and Reliability. A water supply is considered to be adequate if it can deliver the required fire flow for the number of hours specified in Table 4, with consumption at the maximum daily rate; if this delivery is possible under certain emergency or unusual conditions, the water supply is also considered to be reliable.

TABLE 4.

REQUIRED DURATION FOR FIRE FLOW

Required Fire Flow gpm	Required Duration Hours
10,000 and greater	10
9,500	9
9,000	9
8,500	8
8,000	8
7,500	7
7,000	7
6,500	6
6,000	6
5,500	5
5,000	5
4,500	4
4,000	4
3,500	3
3,000	3
2,500 and less	2

In order to provide reliability, duplication of some or all parts of a water supply system will be necessary, the need for duplication being dependent upon the extent to which the various parts may reasonably be expected to be out of service as a result of maintenance and repair work, an emergency, or some unusual condition. The introduction of storage, either as part of the supply works or on the distribution system, may partially or completely offset the need for duplicating various parts of the system; the value of the storage depends upon its amount, location, and availability.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 41.** Does KAWC have any plans to acquire any additional water or wastewater facilities during the forecast period? If so, please provide a detailed explanation.

Response:

KAW has signed an asset purchase agreement to acquire the North Middletown water and wastewater facilities. KAW does not currently have any written commitments to acquire additional water or wastewater facilities.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill/Kevin N. Rogers

42. Please provide a list of all local governments and water utilities in Kentucky (other than Lexington) who obtain water from KAWC and the terms of each such arrangement. As KAWC adds additional customers of this type, please explain whether such customers will reduce the burden of the Kentucky River Station II Water Treatment Plant and associated pipeline on existing customers, or whether they will in any way reduce the cost of future water rates.

Response:

KAW provides water to the following customers on a wholesale basis:

City of Midway
East Clark Water
City of North Middletown
City of Nicholasville
City of Versailles
Jessamine-South Elkhorn Water District
Harrison County Water District
Georgetown Municipal Water and Sewer Service
Peaks Mill Water District
Nicholas County Water District

Additionally, KAW provides service in Owen County, the City of Owenton, the City of Monterey, the City of Sadieville, the City of Glencoe, the City of Millersburg, the City of Georgetown, Scott County, Harrison County, Woodford County, Bourbon County, Clark County, Nicholas County, Rockcastle County, Jackson County and Jessamine County. Those local governments purchase water for individual government properties and fire services under KAW approved tariffs.

KAW generally negotiates wholesale water purchases in accordance with cost of service based agreements, therefore any additional customers would be required to cover the cost of the service requested. KAW's entire system of treatment plants, mains and storage tanks is designed and constructed for a capacity to meet KAW's current population and future increases within the area that KAW currently serves through the year 2030. KAW customers would benefit from any growth through the economies of scale of utilizing shared facilities with either reduced rates or delayed or mitigated rate increases depending on the size and scope of any future expansions.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

43. Has the actual current use of water met KAWC's projections from the last several years? Please explain.

- (a) To what extent are current consumption and demand rates consistent with the projections KAWC has submitted in PSC proceedings since 2002?

Response:

The actual current use is consistent with past projections.

(a) Since 2002, KAW has submitted demand projections four times in PSC proceedings. The first time was in Case 2001-00117 as an update in 2004 to earlier information. The actual daily demands during the period from 2004 to 2015 were below those projections by 1.83 million gallons per day on average, or only 4.05%. This is due primarily to the decline in usage from 2011 to 2015 including significantly wet, cool summer weather during that period.

The second demand projections submitted since 2002 were in the Certificate Case 2007-00134. The actual daily demands for 2007 through 2015 were below those projections by 1.50 million gallons per day on average, or only 3.52%. This is due primarily to the decline in usage from 2011 to 2015 including significantly wet, cool summer weather during that period. The demand projections in that case only projected annual usage through 2015.

The third demand projections were submitted in 2012 as a part of the Certificate Case 2012-00096. Those projections included 2011 actual demands. The actual daily demands from 2012 to 2015 were 2.09 million gallons per day below the projections on average, or only 5.17%. Here again, this is due to the decline in usage during the period including significantly wet, cool summer weather during that period. The demand projections in that case only projected annual usage through 2015.

Additionally, in Docket No. 2014-00258, the 2013 Comprehensive Planning Study (CPS) for KAWC was provided which included demand forecasts for planning purposes. These forecasts were made for 2015 and every 5 years through 2030. The demand projections of the CPS are driven primarily by population forecasts based on census data and historical growth rates of the areas served. The demand projections form the basis for an initial analysis of the adequacy of source of supply, production, and distribution facilities over the 15-

year analysis by the CPS. The actual daily demands for 2015 and 2016 were 2.56 million gallons per day below the CPS 2015 projection, or only 6.05%. This is primarily due to 2015 being the eighth wettest year that brought 59.89 inches of rain to the area.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

44. Please provide the total amount of water supplied by KAWC to its customers on an annual basis since 2010. To the extent possible, please provide the same information broken down into counties or regions.

(a) Please provide this information for each category of ratepayer.

Response:

KAWC does not record the water sales by counties or regions. Please see the attached.

Kentucky American Water Company**Case No. 2018-00358****LFUCG DR 1-44****Water Sales In 1,000 Gallons Since 2010**

	2010	2011	2012	2013	2014	2015	2016	2017	2018
Residential	6,225,215	5,855,415	6,095,861	5,615,124	5,802,958	5,870,951	5,954,950	5,721,394	5,645,920
Commercial	4,084,497	3,748,058	3,924,929	3,559,203	3,696,861	3,891,043	3,935,585	3,822,737	3,765,249
Industrial	567,426	480,416	555,464	527,416	568,237	630,051	674,845	657,921	665,446
OPA/Resale/Other	2,113,798	1,828,555	1,938,835	1,695,156	1,734,291	1,753,793	1,854,118	1,633,883	1,677,619
Total	12,990,936	11,912,443	12,515,089	11,396,899	11,802,347	12,145,837	12,419,497	11,835,936	11,754,234

* 2018 usage including 15,821K gallons water sales from E Rockcastle (residential 15,369K gallons, commercial 452K gallons) for March -December.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 45.** Does KAW have an estimate of how much water has been lost due to leaking KAWC infrastructure? Please provide this information for the previous 5 years by volume and percentage of treated water.

Response:

Please see the attached year ending PSC Water Loss Reports for 2014, 2015, 2016, 2017, and 2018. The volume of water loss from main breaks is shown in the "Line Breaks" category in the PSC reports. KAW has not quantified the volume of water loss specifically due to unidentified leaking infrastructure. Consequently, any volume of water loss in that and other categories is embedded on line 26 "Line Leak" in the PSC Water Loss Reports, which captures all volumes not specifically noted elsewhere on the report form.

**PUBLIC SERVICE COMMISSION
Monthly Water Loss Report**

Kentucky American Water Company - Total

2014

WATER PRODUCED, PURCHASED & DISTRIBUTED	GALLONS (Omit 000's)	
	TOTAL	
Water Produced	13,955,035	
Water Purchased	71,194	
TOTAL PRODUCED AND PURCHASED	14,026,229	
 WATER SALES		
Residential	5,802,958	
Commercial	3,696,860	
Industrial	568,237	
Bulk Loading Stations	2,428	
Wholesale	463,820	
Other Sales	1,275,045	
TOTAL WATER SALES	11,809,348	84.2%
	84.2%	
 OTHER WATER USED		
Utility and/or Water Treatment Plant	7,823	
Wastewater Plant	5,933	
System Flushing	112,303	
Fire Department	1,299	
Other	557	
TOTAL OTHER WATER USED	127,915	0.9%
	0.9%	
 WATER LOSS		
Tank Overflows	-	
Line Breaks	71,772	
Line Leaks	2,017,194	
Other	-	
TOTAL LINE LOSS	2,088,966	14.9%
	14.9%	
 Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
 WATER LOSS PERCENTAGE		
Unaccounted-For Water (Line 28 divided by Line 4)	14.9%	100.0%

PUBLIC SERVICE COMMISSION
Monthly Water Loss Report

Kentucky American Water Company

2015

WATER PRODUCED, PURCHASED & DISTRIBUTED	GALLONS (Omit 000's)	
	TOTAL	
Water Produced	14,201,476	
Water Purchased	90,786	
TOTAL PRODUCED AND PURCHASED	14,292,262	
 WATER SALES		
Residential	5,870,950	
Commercial	3,891,042	
Industrial	630,051	
Bulk Loading Stations	25,417	
Wholesale	448,916	
Other Sales	1,284,258	
TOTAL WATER SALES	12,150,634	85.0%
	85.0%	
 OTHER WATER USED		
Utility and/or Water Treatment Plant	5,521	
Wastewater Plant	12,917	
System Flushing	59,258	
Fire Department	523	
Other	1,276	
TOTAL OTHER WATER USED	79,495	0.6%
	0.6%	
 WATER LOSS		
Tank Overflows	5	
Line Breaks	120,662	
Line Leaks	1,941,466	
Other	-	
TOTAL LINE LOSS	2,062,133	14.4%
	14.4%	
 Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
 WATER LOSS PERCENTAGE		
Unaccounted-For Water (Line 28 divided by Line 4)	14.4%	100.0%

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility:

For the Month of: Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	WATER PRODUCED, PURCHASED & DISTRIBUTED		
2	Water Produced	14,826,779	
3	Water Purchased	107,850	
4	TOTAL PRODUCED AND PURCHASED	14,934,629	
5			
6	WATER SALES		
7	Residential	5,954,950	
8	Commercial	3,935,585	
9	Industrial	674,845	
10	Bulk Loading Stations	20,147	
11	Wholesale	500,372	
12	Other Sales <u>OPA & Fire</u>	1,340,329	
13	TOTAL WATER SALES	12,426,228	83.2%
14			
15	OTHER WATER USED		
16	Utility and/or Water Treatment Plant	945	
17	Wastewater Plant	13,258	
18	System Flushing	147,251	
19	Fire Department	1,419	
20	Other <u>Street cleaning, unauthorized usage.</u>	2,687	
21	TOTAL OTHER WATER USED	165,560	1.1%
22			
23	WATER LOSS		
24	Tank Overflows	-	
25	Line Breaks	61,036	
26	Line Leaks	2,281,805	
27	Other _____		
28	TOTAL LINE LOSS	2,342,841	15.7%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	WATER LOSS PERCENTAGE		
33	Unaccounted-For Water (Line 28 divided by Line 4)	15.7%	

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility:

For the Month of: Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	WATER PRODUCED, PURCHASED & DISTRIBUTED		
2	Water Produced	14,688,053	
3	Water Purchased	84,302	
4	TOTAL PRODUCED AND PURCHASED	14,772,355	
5			
6	WATER SALES		
7	Residential	5,805,215	
8	Commercial	3,871,883	
9	Industrial	657,921	
10	Bulk Loading Stations	18,269	
11	Wholesale	465,916	
12	Other Sales <u>OPA & Fire</u>	1,198,394	
13	TOTAL WATER SALES	12,017,598	81.4%
14			
15	OTHER WATER USED		
16	Utility and/or Water Treatment Plant	6,210	
17	Wastewater Plant	13,476	
18	System Flushing	117,106	
19	Fire Department	994	
20	Other <u>Street cleaning, unauthorized usage.</u>	1,960	
21	TOTAL OTHER WATER USED	139,746	0.9%
22			
23	WATER LOSS		
24	Tank Overflows	-	
25	Line Breaks	97,351	
26	Line Leaks	2,517,660	
27	Other _____		
28	TOTAL LINE LOSS	2,615,011	17.7%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	WATER LOSS PERCENTAGE		
33	Unaccounted-For Water (Line 28 divided by Line 4)	17.7%	

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility:

For the Month of: Year:

LINE #	ITEM	GALLONS (Omit 000's)
1	WATER PRODUCED, PURCHASED & DISTRIBUTED	
2	Water Produced	14,797,317
3	Water Purchased	120,598
4	TOTAL PRODUCED AND PURCHASED	14,917,915
5		
6	WATER SALES	
7	Residential	5,696,379
8	Commercial	3,765,249
9	Industrial	665,446
10	Bulk Loading Stations	9,126
11	Wholesale	461,047
12	Other Sales <u>OPA & Fire</u>	1,215,757
13	TOTAL WATER SALES	11,813,004 79.2%
14		
15	OTHER WATER USED	
16	Utility and/or Water Treatment Plant	6,667
17	Wastewater Plant	11,243
18	System Flushing	158,022
19	Fire Department	1,217
20	Other <u>Street cleaning, unauthorized usage.</u>	2,724
21	TOTAL OTHER WATER USED	179,873 1.2%
22		
23	WATER LOSS	
24	Tank Overflows	1,873
25	Line Breaks	116,685
26	Line Leaks	2,806,480
27	Other _____	-
28	TOTAL LINE LOSS	2,925,038 19.6%
29		
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4	
31		
32	WATER LOSS PERCENTAGE	
33	Unaccounted-For Water (Line 28 divided by Line 4)	19.6%

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION

Witness: Kevin N. Rogers

- 46.** Please describe what processes are in place to identify a potentially stuck meter or unknown leak (e.g., automated review of meter data).

Response:

American Water's asset management system includes technology designed to identify potentially stuck meters and also abnormally high water usage that could indicate a leak.

With regard to potentially stuck meters, the system reviews all meter readings uploaded into the system for each monthly reading cycle. For active accounts with meters less than 2 inches in size, when readings indicating 0 water usage are obtained, the following process takes place:

1st month: no action taken.

2nd month: no action taken

3rd month: If meter located inside, a letter is sent to customer indicating possible stuck meter. If meter located outside, a service order is generated for investigation by the local field team. (Meters in Kentucky are located outside.)

4th month: same action as for 3rd month.

5th month: Manual intervention taken by operations and or field staff to take action, including attempted direct customer contact, if issue remains unresolved or unexplained.

For meters 2 inches in size or greater, the same process is used, except action is taken beginning with the 2nd month due to the potential for a larger volume of water usage being affected.

Accounts where property is vacant, seasonal in nature, or fire services can be coded as such to indicate that 0 usage is expected. However, these are reviewed periodically for changes. Also, the above process does not apply to irrigation accounts from October – March (cold weather months) due to expected 0 usage during those times.

With regard to potential leaks, the system reviews monthly readings for much higher deviations in usage from the account's historical water usage, which could indicate a potential leak. When these are noted, correspondence is sent to the customer to notify of higher than normal usage and to check for the possibility of a leak if the high usage is unexpected / unexplained. Correspondence continues to be generated if the high usage

persists. Field staff such as meter readers may also provide information should they suspect a leak, and a service order generated for a follow-up leak investigation.

In addition to these system responses, each customer bill contains a bar graph representing the usage on the account for the past 12 months, which is another excellent visual indicator that usage is either higher or lower than may be expected.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION

Witness: Kevin N. Rogers

47. Does KAWC have a formal policy or informal practice regarding expenses incurred by a customer due to an unknown leak? Does KAWC grant customers leniency in this situation? If so, please describe.

Response:

Kentucky American has a formal policy for hidden leak adjustments set forth at First Revised Sheet 44 of its tariff which is attached.

The Company has provided additional informal guidance to our customer service and billing teams to allow for fair and reasonable interpretations of this policy in the interest of leniency. That guidance states as follows: "A hidden underground leak is defined as a leak in the customer service line between the meter and any facilities served at the premise by the customer's underground service lines, or in any other area where a leak would not be readily obvious to the customer." This allows a broader range of circumstances to be eligible for leak adjustment consideration, such as a farm with service lines to livestock watering stations or barns, or irrigation systems for lawns, medians, or golf courses.

SERVICE CLASSIFICATION NO. 6
HIDDEN LEAK ADJUSTMENT RATE**Applicable**

Applicable to entire Service Territory of Kentucky-American Water Company.

Availability of Service

Available for Residential and Commercial customers.

Rates

A charge of twenty-five (25) percent of the applicable tariff will be applied to all water usage determined to be the result of a hidden underground leak.

Terms and Conditions

A hidden underground leak is defined as a leak in the customer service line between the meter and the premises. Hidden underground leak adjustments will be granted to residential and commercial customers. The customer must provide a plumber's statement or list of materials showing that the leak has been repaired. After verification of repairs by the Water Company, the bill will be adjusted by comparing the usage during the leak billing period to the average usage for the past six billing periods. A reasonable estimate will be used in cases when six prior periods of information do not exist. The excess usage will be billed at the rate specified above. During the lifetime of a water service line only two leak adjustments will be permitted. Each adjustment may cover a maximum of two billing periods. Before a third adjustment can be considered, the entire water service line from the meter box to the premises must be replaced. Plastic pipe for repair of underground water service lines must be certified to withstand a working pressure of 160 pounds per square inch or greater.

ISSUED: August 10, 2018
EFFECTIVE: September 10, 2018

ISSUED BY: /s/ Nick O. Rowe
Nick O. Rowe
President
2300 Richmond Road, Lexington, KY 40502

Approved:

KENTUCKY
PUBLIC SERVICE COMMISSION

Gwen R. Pinson
Executive Director

Gwen R. Pinson

EFFECTIVE

9/10/2018

PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin Rogers

- 48.** Identify the percentage of KAWC's non-revenue water for each of the last 60 months. Include within your response the formula of how KAWC calculates this percentage.

Response:

KAW calculates the non-revenue water ("NRW") percentage by subtracting total sales from total system delivery which results in total NRW. Total NRW is then divided by total system delivery to arrive at the NRW %.

The Company suggests that a twelve month rolling, annual, or multi-year water loss percentage would be appropriate indicator of NRW. This is because these longer periods normalize one-time events and timing anomalies that exist within a monthly percentage. One-time events include water losses from multiple main break events in a cold winter month. Timing anomalies exist because while "Water Produced" statistics represent the current calendar month, "Water Use" statistics do not, due to billing lag. This phenomenon can make the water loss percentage appear unusually high in the late spring when production is ramping up but the sales are not yet billed (e.g. May), and unusually low in the early fall when production is ramping down but billed sales are still high (September).

KAW's monthly NRW percentage for the last 60 months is listed below, along with the rolling 12-month average for each year:

NRW %	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dec YTD
2014	15.2%	14.5%	17.7%	17.6%	26.2%	16.1%	18.7%	18.1%	10.4%	3.6%	16.3%	14.0%	15.8%
2015	11.1%	21.0%	18.6%	10.4%	27.6%	11.5%	11.5%	21.4%	14.9%	4.1%	11.8%	14.2%	15.0%
2016	21.2%	18.3%	18.8%	17.4%	24.1%	20.8%	17.7%	16.4%	12.1%	12.5%	8.7%	14.5%	16.8%
2017	24.8%	6.0%	24.9%	21.0%	24.6%	17.0%	22.5%	20.3%	5.7%	18.8%	13.0%	23.6%	18.6%
2018	22.0%	16.3%	26.7%	18.2%	31.2%	15.3%	23.6%	19.5%	12.8%	18.4%	20.8%	24.7%	20.8%

Please note that NRW is different than unaccounted for water.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 49.** Please describe existing or planned water conservation programs aimed at end customers and the respective annual funding for such programs. For each such program, please provide an annual estimate of the quantity, in volume and percentage of treated water, of water which will not be consumed as result of the program.

Response:

Kentucky American Water has ongoing efforts to educate customers about using water wisely for the purpose of helping customers better manage their water use and thus, their water bills, as well as for encouraging environmental stewardship.

A listing of existing and planned activities is included below along with the approximate cost for each. Data is not available to estimate the volume or percentage of treated water that will not be consumed as a result of these efforts either individually or collectively.

Student Outreach Activities - \$10,000

Kentucky American Water partners with organizations like Bluegrass GreenSource, a regional environmental education organization, to produce and provide various types of outreach programs for students outside of school hours, such as during the summer. We will be working with Bluegrass GreenSource or like organizations to continue such programs, such as our Water Warrior Camps.

Bill Insert/Onsert - \$4,000

The Company has produced bill inserts that provide water wise tips to customers. With the new bill format, going forward the company will place such tips as "onserts" (printed directly on the bill), which will be covered by staff time alone. Print pieces similar to bill inserts will be printed for use at community events and meetings will also be produced.

Educational Radio Ads - \$40,000

The Company purchases and underwrites radio time that is used to convey wise water tips to consumers throughout its service area.

Educational Print Ads - \$10,000

The Company purchases print newspaper space to convey wise water tips to consumers throughout its service area.

Social Media Postings – staff time

The Company uses its social media platforms to convey water wise tips to consumers.

Educational Social Media Ads - \$3,000

The Company will push its social media wise water use messaging beyond those that like or share its Facebook page by purchasing “boosts” of such postings periodically.

Community Events and Presentations – staff time

Company staff members provide water wise education through a variety of community events and presentations, such as via elementary school presentations, Arbor Day, Reforest the Bluegrass, Founders’ Day at McConnell Springs, the Kentucky American Water Science Fair coordinated by Fayette County Public Schools, and its Waterfest community open house.

Leak Detection Kits - \$1,200

Kentucky American Water makes available hard copies of booklets that provide customers with tips on how to look for water leaks in their homes and suggestions on how to fix them. The booklets are available to customers via the company’s lobbies, community events and upon request. The information is also available to customers via the Company’s website.

Water Wise Items - \$8,000

The Company purchases child- and adult-level wise water use educational and themed items for distribution, as well as items such as shower timers, rain gauges, and main water shut-off valve tags.

Other Sponsorships - \$4,800

The Company provides support to other conservation-focused events as possible that complement the company’s efforts in educating customers about wise water use.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent O'Neill

- 50.** Please refer to the testimony of Nick O. Rowe in response to the Question appearing on line 20, page 8.
- (a) Please provide a listing of all of the capital investments the Company has made since the last rate case totaling “more than \$100 million.”
 - (b) For each such investment, please list the amount of the investment in each project by year “since the last rate case”; provide the description of the project; provide the location of the project; and provide the expenditure for each project by year.

Response:

- a. Please see attached listing of all capital investments from the period of 2017 to 2020.
- b. Please see attached.

Kentucky American Water
Case No. 2018-00358

Type of Filing: X_Original ___ Updated ___ Revised ___
Workpaper Reference No(s): _____

LFUCG NUM 50

Witness Responsible:
Brent O'Neill

Business Unit	Project #	Project Title	Description	Location	Total 2017	Total 2018	Total 2019	Total 2020	Total Period Investment
					Actual	Actual	Proposed	Proposed	
RECURRING PROJECTS									
Kentucky	D12-**01-P	Projects Funded by Others	This investment plan item is for the installation of new mains, valves, hydrants, and fire service connections that are funded entirely by others. This investment plan item may also include the replacement of existing components of water supply, water treatment, water pumping, water storage, and water pressure regulation facilities not funded by company expenditures. The majority of these expenditures are funded through deposit agreements and as non-refundable contributions. The projected expenditure amount is developed through discussions with home builders and developers as well as a review of plats.	Various	\$2,724,269	\$2,226,043	\$2,500,000	\$2,500,000	\$9,950,312
Kentucky	R12-**A1	Mains - New	This investment plan item is for new water mains, valves, and other appurtenances that are funded by the Company, including upsizing of developer initiated extensions; Company initiated and funded new mains that are not related to immediate growth, such as new mains that eliminate existing dead ends or provide new transmission capacity; and new customer - initiated extensions in accordance with tariffs that may include some customer contribution. This item may also include new mains that parallel existing mains to increase transmission capacity, provide reliability, or establish an additional pressure gradient.	Various	\$446,964	\$907,722	\$566,500	\$545,000	\$2,466,186
Kentucky	R12-**B1	Mains - Replaced / Restored	This investment plan item is for the scheduled replacement, renewal or improvement of existing water mains including valves and other appurtenances.	Various	\$4,151,683	\$3,493,462	\$4,500,000	\$6,000,000	\$18,145,146
Kentucky	R12-**C1	Mains - Unscheduled	This investment plan item is for the unscheduled replacement or restoration of existing water mains, including valves and other appurtenances. This item is primarily used for emergency replacements.	Various	\$913,898	\$928,030	\$820,000	\$900,000	\$3,561,928
Kentucky	R12-**D1	Mains - Relocated	- This investment plan item is for the relocation of existing water mains, including valves and other appurtenances, as required by municipal or state agencies. This investment line item now includes replacement of services in conjunction with these projects, which was previously budgeted in the cost of service replacements. These costs are not reimbursable.	Various	\$1,078,724	\$1,068,447	\$987,550	\$400,050	\$3,534,771
Kentucky	R12-**E1	Hydrants, Valves, and Manholes - New	This investment plan item is for the installation of new hydrants, including hydrant assemblies and valves that are installed on existing mains or installed in conjunction with main extension projects, which are Company funded. This item generally includes all public hydrants.	Various	\$277,571	\$375,099	\$217,000	\$228,550	\$1,098,220
Kentucky	R12-**F1	Hydrants, Valves, and Manholes - Replaced	This investment plan item is for the replacement of leaking, failed or obsolete hydrants, including hydrant assemblies and valves that are Company funded.	Various	\$610,905	\$300,446	\$480,960	\$498,960	\$1,891,271
Kentucky	R12-**G1	Services and Laterals - New	This investment plan item is for the installation of new water services or improvements, including corporation stops and shut-off valves.	Various	\$1,245,152	\$900,197	\$1,079,105	\$1,079,105	\$4,303,559
Kentucky	R12-**H1	Services and Laterals - Replaced	This investment plan item is for the replacement of water services or improvements, including the replacement of corporation stops, or shut-off valves.	Various	\$537,742	\$453,565	\$532,500	\$532,500	\$2,056,307
Kentucky	R12-**I1	Meters - New	This investment plan item is for the installation of new meters and meter settings.	Various	\$622,520	\$465,661	\$800,000	\$800,000	\$2,688,181
Kentucky	R12-**J1	Meters - Replaced	This investment plan item is for the replacement or improvement of existing customer meters and meter settings with or without technology changes.	Various	\$1,800,116	\$4,014,157	\$1,516,039	\$1,142,700	\$8,473,012
Kentucky	R12-**K1	ITS Equipment and Systems	This investment plan item is for the replacement of existing Information Technology System Equipment and systems due to failure or obsolescence and new items to achieve efficiency or address new requirements.	Various	\$398,906	\$321,284	\$246,769	\$255,552	\$1,222,511
Kentucky	R12-**L1	SCADA Equipment and Systems	This investment item is for the installation or replacement of existing SCADA Equipment and Systems. The acronym SCADA can be defined in several slightly different ways, but KAWC generally defines it as System Control and Data Acquisition, which is the computerized system for monitoring and operating the treatment plants and network facilities. We address these important investment costs separately from general Information Technology System Equipment costs.	Various	\$200,440	\$213,335	\$233,000	\$183,000	\$829,775
Kentucky	R12-**M1	Security Equipment and Systems	This investment item is a division for Security Equipment and Systems. This may include fencing, alarm systems, cameras, barricades, electronic detection or locking systems, software, or other assets related directly to security.	Various	\$212,087	\$156,962	\$458,000	\$55,000	\$882,048
Kentucky	R12-**N1	Offices and Operations Centers	This investment plan item is for the replacement or improvement of building systems, equipment or furnishings for offices and operations centers, including copy machines, and communication systems other than computers.	Various	\$136,053	\$238,168	\$150,000	\$150,000	\$674,221
Kentucky	R12-**O1	Vehicles	This investment plan item is for replacement of vehicles, including utility trucks, cars and light and medium trucks and accessories.	Various	\$678,854	\$287,019	\$680,000	\$650,000	\$2,295,874
Kentucky	R12-**P1	Tools and Equipment	This investment plan item is for the replacement or purchase of construction, shop, garage, meter reading, and storeroom equipment.	Various	\$137,646	\$282,086	\$830,100	\$403,000	\$1,652,832
Kentucky	R12-**Q1	Process Plant Facilities and Equipment	- This investment plan item is for the new purchase or replacement of existing components of water supply, treatment, pumping, storage, and pressure regulation facilities, including associated building components and equipment. Replacements may be planned or made because of failure, or may include improvements. This item also includes laboratory equipment and replacement of filter media used in the treatment process if capitalized.	Various	\$1,557,341	\$1,653,217	\$1,925,000	\$2,100,000	\$7,235,558
Kentucky	R12-**S1	Engineering Studies	This investment item is for preliminary engineering studies primarily used for planning purposes. At the initiation of a project, these capital dollars are transferred to the appropriate construction project.	Various	\$188,786	\$205,377	\$75,000	\$75,000	\$544,163
Total Recurring Projects					\$17,919,659	\$18,490,276	\$18,597,523	\$18,498,417	\$73,505,875
INVESTMENT PROJECTS									

	112-020017	KRS Valve House Rehabilitation Phase 1	Renovation and rehabilitation of the Kentucky River Station Valve House Number 1 includes new valves and actuators; demolition of decommissioned piping and valves; corrective measures to mitigate flooding; improved access for piping and valves; relocation of electrical panels, boxes and SCADA; review and replacement of fluoride and chlorine lines as needed; and structural repairs.	KRSI - Fayette County	\$18,206	-	-	-	\$18,206
	112-020021	Jacobson - Hays Booster Station	Installation of a pump station in Jacobson Park to create a pressure zone in the Northeastern portion of the Lexington Distribution System. The pump station will allow KAWC to address reduced pressure areas due to development of higher elevation land and increase population in distribution system. The pressure zone will increase fire flows and residential pressure and improve service for over 10,000 residents.	Lexington	\$1,405,613	-	-	-	\$1,405,613
	112-020035	KRS1 - Residual Improvements	This project will provide a near-term and intermediate solution to improve the residual handling at KRS1. Improvements expected are installation of gravity thickeners, upsize or increase number of washwater holding tanks, and create the long-term plan for dewatering at KRS1. Project need is the result of an overloading of the residual's system due to the operational change to address regulatory requirements of THM's formation at the facility and within the distribution system. Due to the excess loading of the sludge lagoons from the WWHTs and Aldrich units, KAW runs the risk of overflowing one or more of the lagoons in to a nearby creek which runs through a sensitive conservation area, or exceeding the NPDES discharge limit for the total suspended solids (TSS).	KRSI - Fayette County	\$136,265	\$477,141	-	-	\$613,406
Kentucky	112-020037	KRS I Chemical Storage and Feed Imp	This project incorporates several components of chemical storage and delivery to enhance the robustness and reliability of Kentucky River Station (KRS I) operations by minimizing the risk of plant shutdown due to insufficient chemical storage and feed. A major component of the project is the transition from chlorine gas and anhydrous ammonia to the safer liquid sodium hypochlorite and aqueous ammonia.	KRSI - Fayette County	\$505,882	\$710,306	\$1,227,706	\$5,984,956	\$8,428,850
Kentucky	112-020039	Delaplain Booster Station	This project will replace the present below grade Delaplain Booster Station with a new booster station that will provide redundancy for the Muddy Ford Tank and the Newtown Pike Booster Station. The project will also improve reliability of the system to maintain sufficient service to large users in the area.	Georgetown	\$694,736	\$652,467	-	-	\$1,347,203
	112-020040	KRS Valve House Rehabilitation (Phase 2)	Renovation and rehabilitation of the Kentucky River Station Valve House Number 3 includes new valves and actuators; demolition of decommissioned piping and valves; corrective measures to mitigate flooding; improved access for piping and valves; relocation of electrical panels, boxes and SCADA; review and replacement of fluoride and chlorine lines as needed; and structural repairs.	KRSI - Fayette County	\$690,300	\$59,465	-	-	\$749,765
	112-020043	Athens Boonesboro Main Extension	This project is phase 1 of the water system improvements along Athens-Boonesboro Road in Fayette County to allow for the connection of KAWC customers to the Company's Central Service Area. The water main extension of phase 1 and 2 will allow the Company to eliminate the use of purchased water for the customers in the area of the project and allow them to be served by KAWC's three water treatment facilities. The project will also enhance water pressures and water quality for customers in the area.	Fayette County	\$1,078,296	\$133	-	-	\$1,078,429
Kentucky	112-020055	New Circle Rd Main Relocation Phase 2	This project includes the relocation of approximately 1,300 lineal feet of 20 inch water main and 1,500 lineal feet of 12 inch water main in response to the Kentucky Department of Transportation's widening of New Circle Road to increase safety and improve the flow of traffic. The project is located along New Circle Road between Georgetown Road and Boardwalk Avenue in Lexington.	Lexington	\$72,441	\$25,855	\$833,325	-	\$931,621
Kentucky	112-020059	KRS2 Transfer Switch	This project is for the design of an automatic transfer switch (ATS) for Kentucky River Station 2 (KRS-2) to transfer from 5 KV utility power to the standby generator and back to utility power. This process is currently accomplished by manual transfer and re-transfer.	KRS2 - Owen County	-	-	\$334,257	\$600,000	\$934,257
	112-020064	KRS 1 HS Pump #12	The project replaced high service pump 14 with a new high efficiency vertical turbine pump and repurposed the existing vertical turbine pump to replace high service pump 12. This work continued KAWC's selective replacement of high service pumps at Kentucky River Station 1 to improve both the operational and energy efficiency of the facility's high service pumps as recommended by the Hydraulic Efficiency Study that was commissioned by KAWC in 2016.	KRS1 - Fayette County	\$1,241,985	\$141,070	-	-	\$1,383,055
Kentucky	112-020067	RRS Chemical Facility Upgrade/Chlor	This project incorporates several components of chemical storage and delivery to enhance the robustness and reliability of Richmond Road Station (RRS) operations by minimizing the risk of plant shutdown due to insufficient chemical storage and feed. A major component of the project is the transition from chlorine gas and anhydrous ammonia to the safer liquid sodium hypochlorite and aqueous ammonia. The project will combine all of the chemicals used for the treatment of water at RRS, allowing for the consolidated storage and management of chemicals, which will lead to improved safety and efficiency for the operation of RRS.	Lexington	\$185,211	\$656,866	\$9,761,231	-	\$10,603,309
Kentucky	112-020069	KRS1 Valve House #4 Rehabilitation	Renovation and rehabilitation of the Kentucky River Station Valve House 4. Includes new valves and actuators; demolition of decommissioned piping and valves; corrective measures to mitigate flooding; improved access for piping and valves; relocation of electrical panels, boxes and SCADA; review and replacement of fluoride and chlorine lines as needed; and structural analysis. Including design, bidding and construction services.	KRS1 - Fayette County	-	\$955,689	\$0	-	\$955,689
Kentucky	112-020071	KRS1 Valve House Rehabilitation (Phase 5) - Reeves Drives	Renovation and rehabilitation of the Kentucky River Station Valve House 5. Includes new valves and actuators; demolition of decommissioned piping and valves; corrective measures to mitigate flooding; improved access for piping and valves; relocation of electrical panels, boxes and SCADA; review and replacement of fluoride and chlorine lines as needed; and structural analysis. Including design, bidding and construction services.	KRS1 - Fayette County	-	-	\$1,500,000	-	\$1,500,000
	112-020073	KRS1 Raw Water Intake Pump Replacement	Kentucky Services will be the general contractor and will provide a turn key service to replace raw water pump number 6 at KRS1 that had failed. Kentucky Services will provide a 1250 HP motor, a Floway pump that will be identical to pump number 6, engineering and startup services, materials for install and materials for removal, and will transfer pump from landing on river to site.	KRS1 - Fayette County	\$602,048	-	-	-	\$602,048
Kentucky	112-020074	Athens Boonesboro Main Ext - Phase 2	This project will complete water system improvements along Athens-Boonesboro Road in Fayette County and make various improvements in Clark County to allow for the connection of KAWC customers to the Company's Central Service Area. The water main extension will occur along Athens-Boonesboro, Quisenberry, Waterworks, Old Stone Church and Combs Ferry roads and allow the Company to eliminate the use of purchased water for the customers in the area of the project and allow them to be served by KAWC's three water treatment facilities. The project will also enhance water pressures and water quality for customers in the area.	Clark County	\$323,463	\$997,053	\$187,155	-	\$1,507,672
	112-020075	Richmond Rd Campus - Road Improvements (112-020050 on Budget SCEP)	This project will improve several of the roads on the Richmond Road campus, in particular, the main drive from the front gate up to the new road going up to the filter building, the road between production and the turn toward field operations, and the road between the three way stop just past the main gate going up to the stop sign near the Dinsmore Gate.	Lexington	\$459,525	-	-	-	\$459,525

Kentucky	I12-020076	KRS1 - Replace Incline Car	This project will replace the existing incline car at the KRS1 that was installed in 1956. The incline car is the main means for operators and maintenance personnel to gain access the KRS1 low service intake pumps and structure. The project will replace the existing incline car with a new installation that will address safety concerns and increase the capacity for moving personnel and equipment to the low service intake pumps and structure.	KRS1 - Fayette County	\$230,480	\$106,105	\$1,021,255	-	\$1,357,840
	I12-020077	Millersburg - GAC Filter	This project will install a GAC System to support the Millersburg Water System. The GAC System is needed to mitigate the threat of THMs and HAA's from the Paris Water System. The GAC system also will reduce non-revenue water by decreasing the amount of flushing needed.	Millersburg	\$343,697	-	-	-	\$343,697
Kentucky	I12-020079	Jacobson Pump Station	This project will include the construction of a powder-activated carbon storage and feed system at the Jacobson Reservoir. Currently the Jacobson Pump Station provides source water from Reservoir 4 to Richmond Road Station, where the raw water is treated for taste and odor through a bag feed system. The construction of the powder-activated carbon feed system at the Jacobson Reservoir will allow operations staff to feed appropriate amounts of powder-activated carbon and treat taste and odor in an efficient manner.	Lexington	\$115,432	\$49,173	\$1,805,169	-	\$1,969,774
	I12-020086	RRS WTP Sedimentation Basin Improvement	This project replaced the sedimentation basin weirs with a submerged weir system. This work improved the hydraulics and water quality for the Richmond Road Station facility. The submerged weir system reduced the amount of floating debris getting onto the filters and improved the performance of the sedimentation basin to provide optimal operation of the filters. The improvements also improved the hydraulic capabilities of the basins and ensured proper water levels during high demand periods for the facility.	Lexington	\$1,191,412	\$218,759	-	-	\$1,410,172
Kentucky	I12-020088	Pressure Zone Extension	This project replaced the sedimentation basin weirs with a submerged weir system. This work improved the hydraulics and water quality for the Richmond Road Station facility. The submerged weir system reduced the amount of floating debris getting onto the filters and improved the performance of the sedimentation basin to provide optimal operation of the filters. The improvements also improved the hydraulic capabilities of the basins and ensured proper water levels during high demand periods for the facility.	Lexington	-	\$1,349,515	-	-	\$1,349,515
Kentucky	I12-020089	Millersburg Chemical Feed & WQ Impr	This project will install 3,150 feet of 20" DI main following the Brighton Rail Trail to Polo Club. There will also be a 300' of 24" HDPE crossing I-75. This project will enhance the pressure zone and help provide redundant sources for residential and commercial development in Southeastern Fayette County.	Millersburg	-	\$261,264	-	-	\$261,264
	I12-020090	Brannon Rd Main Relocation	This project will include new chemical feed points, additional monitoring equipment (Ammonia analyzer), and upgrades to the SCADA System to allow for better control of THMs from purchased water source.	Jessamine County	\$151,559	-	-	-	\$151,559
Kentucky	I12-020091	KRS1 - Overhead Power Line Relocation	Relocation of approximately 8,308 feet of (24) inch ductile iron water main, hydrants, valves, and related appurtenances, and easement acquisition as part of a state roadway extension by the State Transportation Cabinet.	KRS1 - Fayette County	-	\$1,434,142	-	-	\$1,434,142
Kentucky	I12-020093	Richmond Rd Paving Improvements	This project will eliminate the overhead power lines that exist going down the hillside at KRS1 that provides power to the low service pump station. The project will eliminate the conflicts with proposed incline car project and improve resiliency of electrical service to low service pump station	Lexington	-	\$36,315	-	-	\$36,315
	I12-020092	S Cleveland Rd Water Main Extension	Water Main Extension of approximately 4,000 LF of 12" DI pipe to complete a loop in the system on South Cleveland Road. Currently the existing 12" DI water main dead ends at 631 South Cleveland Road. This project will extend the 12" water main to US 25 (Old Richmond Road) and tie-in to an existing 6" PVC pipe. This loop will improve system hydraulics and potentially allow us to retire an old 6" AC water main on Turner Station Road.	Fayette County	-	\$374,760	-	-	\$374,760
Kentucky	I12-020094	Cox Street Booster	This project will replace the existing below-grade booster pump station with an at-grade pump station. The project will include review of the pumping requirements for the pump station, which supports both the 1 MG ground storage tank and the 1 MG elevated storage tank at Cox Street. The project will address safety concerns and enhance the reliability and efficiency of the pump station.	Lexington	-	-	\$1,000,000	-	\$1,000,000
Kentucky	I12-020095	Mercer Road Booster Station	This project will replace the existing below-grade booster pump station with an at-grade pump station. The project will include review of the pumping requirements for the pump station, which supports both the Mercer elevated storage tank. The project will address safety concerns and enhance the reliability and efficiency of the pump station.	Lexington	-	-	\$333,188	\$666,812	\$1,000,000
Kentucky	I12-020099	KRS1 Pump #13 Replacement	Replace High Service Pump 13 with new vertical turbine pump, motor, and VFD. Work on HS Pump 13 will occur in a separate phase instead of with Pumps 12 and 14 as originally intended.	KRS1 - Fayette County	-	\$1,033,808	\$200,000	-	\$1,233,808
Kentucky	I12-300008	Owenton Operations Garage	This project will provide for the construction of a new, 9,900 square-foot maintenance garage to support the field crews for the Northern Division. Facility will allow for storage of all of the division's equipment as well as its perishable material. The garage will occupy 0.23 acres of the 4-acre site, allowing for the centralized storage of large material and equipment, consolidation of staff and the ability to accept deliveries of material in a safer, more organized manner.	Owen County	\$70,211	\$285,239	\$573,170	\$236,344	\$1,164,964
Kentucky	I12-030001	ERWA Main Interconnection	This project will interconnect the three service areas of the Eastern Rockcastle Distribution system to allow for redundancy and reduce the likelihood of loss of service when source of supply lost to a particular service area. Study and design expected during 2019 with determination of viability of project by early 2020.	Rockcastle County	-	-	\$355,490	\$250,000	\$605,490
		Total Investment Projects			\$9,516,762	\$9,825,127	\$19,131,946	\$7,738,112	\$46,211,948
		Total Gross Investments			\$27,436,422	\$28,315,403	\$37,729,469	\$26,236,529	\$119,717,823
		Contributions , Advances and Refunds			(\$2,556,941)	(\$2,556,941)	(\$3,775,000)	(\$3,425,000)	(\$12,313,882)
		Net Investment			\$24,879,481	\$25,758,462	\$33,954,469	\$22,811,529	\$107,403,941

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

51. Please refer to the testimony of Nick O. Rowe beginning on line 2, page 8. Please list each item of infrastructure that is in need of replacement. For each such item of infrastructure, please provide:

- (a) description of the infrastructure to be replaced;
- (b) the location of said infrastructure;
- (c) its total useful life in years;
- (d) the number of years it has been in service;
- (e) the date on which replacement is expected to begin; and
- (f) the estimated cost of replacement.

Response:

- a. Mr. Rowe's testimony refers to investments the Company is making to maintain and improve its infrastructure. The majority of the infrastructure that is discussed beginning on line 2 of page 8 is the investment in the replacement of water main that is nearing the end of its useful life. As indicated in the testimony of Brent E. O'Neill, to keep pace with the aging infrastructure, the replacement rate of KAWC's system will need to be significantly increased from its current level of 0.3% (5.4 miles per year) to as high as 0.9 percent (19 miles per year) by the year 2034. This replacement rate reflects the age and materials utilized in the original construction of the KAWC distribution system and current estimates of how long these materials will last.

In addition to the distribution system, KAWC is also proposing an investment of around \$30 million on additional projects that will address aging infrastructure, safety concerns, or system reliability. A list of these projects can be found in the attachment.

- b. See attachment.
- c. See attachment.
- d. See attachment.
- e. See attachment.

f. See attachment.

Kentucky American Water
Case No. 2018-00358

Type of Filing: X_Original ___ Updated ___ Revised
Workpaper Reference No(s): _____

LFUCG NUM 51

Witness Responsible:
Brent O'Neill

Business Unit	Project #	Project Title	Description	Location	Project Type	Useful Life (Years)	Years in Service	Expected Project Start	Estimated Cost
INVESTMENT PROJECTS									
Kentucky	112-020037	KRS 1 Chemical Storage and Feed Imp	This project incorporates several components of chemical storage and delivery to enhance the robustness and reliability of Kentucky River Station (KRS 1) operations by minimizing the risk of plant shutdown due to insufficient chemical storage and feed. A major component of the project is the transition from chlorine gas and anhydrous ammonia to the safer liquid sodium hypochlorite and aqueous ammonia.	KRS1 - Fayette County	Replacement/ Safety	Structure 50 Years Equipment 20 Years	55	5/1/2019	\$8,500,000
Kentucky	112-020055	New Circle Rd Main Relocation Phase 2	This project includes the relocation of approximately 1,300 lineal feet of 20 inch water main and 1,500 lineal feet of 12 inch water main in response to the Kentucky Department of Transportation's widening of New Circle Road to increase safety and improve the flow of traffic. The project is located along New Circle Road between Georgetown Road and Boardwalk Avenue in Lexington.	Lexington	Relocation	80 - 100 Years	53	1/1/2019	\$1,000,000
Kentucky	112-020059	KRS2 Transfer Switch	This project is for the design of an automatic transfer switch (ATS) for Kentucky River Station 2 (KRS-2) to transfer from 5 KV utility power to the standby generator and back to utility power. This process is currently accomplished by manual transfer and re-transfer.	KRS2 - Owen County	Operational Improvement/ Safety	-	-	7/1/2020	\$1,000,041
Kentucky	112-020067	RRS Chemical Facility Upgrade/Chlor	This project incorporates several components of chemical storage and delivery to enhance the robustness and reliability of Richmond Road Station (RRS) operations by minimizing the risk of plant shutdown due to insufficient chemical storage and feed. A major component of the project is the transition from chlorine gas and anhydrous ammonia to the safer liquid sodium hypochlorite and aqueous ammonia. The project will combine all of the chemicals used for the treatment of water at RRS, allowing for the consolidated storage and management of chemicals, which will lead to improved safety and efficiency for the operation of RRS.	Lexington	Replacement/ Safety	Structure 50 Years Equipment 20 Years	60	10/1/2018	\$10,500,000
Kentucky	112-020071	KRS1 Valve House Rehabilitation (Phase 5) - Reeves Drives	Renovation and rehabilitation of the Kentucky River Station Valve House 5. Includes new valves and actuators; demolition of decommissioned piping and valves; corrective measures to mitigate flooding; improved access for piping and valves; relocation of electrical panels, boxes and SCADA; review and replacement of fluoride and chlorine lines as needed; and structural analysis. Including design, bidding and construction services.	KRS1 - Fayette County	Replacement	Structure 50 Years Equipment 30 Years	37	12/1/2018	\$43,472
Kentucky	112-020074	Athens Boonesboro Main Ext - Phase 2	This project will complete water system improvements along Athens-Boonesboro Road in Fayette County and make various improvements in Clark County to allow for the connection of KAWC customers to the Company's Central Service Area. The water main extension will occur along Athens-Boonesboro, Quisenberry, Waterworks, Old Stone Church and Combs Ferry roads and allow the Company to eliminate the use of purchased water for the customers in the area of the project and allow them to be served by KAWC's three water treatment facilities. The project will also enhance water pressures and water quality for customers in the area.	Clark County	Operational Improvement	-	-	8/1/2019	\$1,850,000
Kentucky	112-020076	KRS1 - Replace Incline Car	This project will replace the existing incline car at the KRS 1 that was installed in 1956. The incline car is the main means for operators and maintenance personnel to gain access the KRS 1 low service intake pumps and structure. The project will replace the existing incline car with a new installation that will address safety concerns and increase the capacity for moving personnel and equipment to the low service intake pumps and structure.	KRS1 - Fayette County	Replacement	25 Years	63	8/1/2019	\$1,500,007
Kentucky	112-020079	Jacobson Pump Station	This project will include the construction of a powder-activated carbon storage and feed system at the Jacobson Reservoir. Currently the Jacobson Pump Station provides source water from Reservoir 4 to Richmond Road Station, where the raw water is treated for taste and odor through a bag feed system. The construction of the powder-activated carbon feed system at the Jacobson Reservoir will allow operations staff to feed appropriate amounts of powder-activated carbon and treat taste and odor in an efficient manner.	Lexington	Replacement	Structure 50 Years Equipment 20 Years	23	1/1/2019	\$2,000,000
Kentucky	112-020094	Cox Street Booster	This project will replace the existing below-grade booster pump station with an at-grade pump station. The project will include review of the pumping requirements for the pump station, which supports both the 1 MG ground storage tank and the 1 MG elevated storage tank at Cox Street. The project will address safety concerns and enhance the reliability and efficiency of the pump station.	Lexington	Replacement	Structure 50 Years Pumps 25 Years	64	9/1/2019	\$43,773
Kentucky	112-020095	Mercer Road Booster Station	This project will replace the existing below-grade booster pump station with an at-grade pump station. The project will include review of the pumping requirements for the pump station, which supports both the Mercer elevated storage tank. The project will address safety concerns and enhance the reliability and efficiency of the pump station.	Lexington	Replacement	Structure 50 Years Pumps 25 Years	64	1/1/2020	\$1,000,000
Kentucky	112-020099	KRS1 Pump #13 Replacement	Replace High Service Pump 13 with new vertical turbine pump, motor, and VFD. Work on HS Pump 13 will occur in a separate phase instead of with Pumps 12 and 14 as originally intended.	KRS1 - Fayette County	Replacement	20 Years	35	1/1/2019	\$1,517,260
Kentucky	112-300008	Owenton Operations Garage	This project will provide for the construction of a new, 9,900 square-foot maintenance garage to support the field crews for the Northern Division. Facility will allow for storage of all of the division's equipment as well as its perishable material. The garage will occupy 0.23 acres of the 4-acre site, allowing for the centralized storage of large material and equipment, consolidation of staff and the ability to accept deliveries of material in a safer, more organized manner.	Owen County	New Facility for Maintenance Personnel	-	-	7/1/2019	\$1,400,000
Kentucky	112-030001	ERWA Main Interconnection	This project will interconnect the three service areas of the Eastern Rockcastle Distribution system to allow for redundancy and reduce the likelihood of loss of service when source of supply lost to a particular service area. Study and design expected during 2019 with determination of viability of project by early 2020.	Rockcastle County	Resiliency/ Operational Improvement	-	-	1/1/2022	\$2,855,492

**KENTUCKY-AMERICAN WATER COMPANY
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FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell / Nick O. Rowe

52. Please refer to the testimony of Nick O. Rowe beginning on line 4, page 10. Please provide the source(s) for the following two statements contained therein:

- (a) “Compared with other utilities, water utilities are the most capital intensive utilities in the industry.”
- (b) “The water industry is significantly more capital intensive than both the gas and electric industries.”

Response:

- a. The source for the statement is publicly reported utility financial data. In 2017, the average net plant / revenue for utilities by sector was as follows:

Utility Sector	Capital Intensity (Net Plant / Revenue)
Water	4.69
Electric	2.98
Electric and Gas	2.56
Gas	2.22

- b. Please see the response to part a.

**KENTUCKY-AMERICAN WATER COMPANY
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FIRST REQUEST FOR INFORMATION**

Witness: Brent O'Neill/Melissa Schwarzell

- 53.** Please refer to the sentence in the testimony of Nick O. Rowe beginning on line 6, page 10.
- (a) What is meant by the statement that improved leak detection, infrastructure replacement and repair, and environmental compliance are non-revenue producing investments?
 - (b) Does this mean that these listed investments are not included in rate base for purposes of receiving a return?
 - (c) If the answer to (b) above is "no," please explain your answer.

Response:

a, b, and c: Please see the response to LFUCG 1-61.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Nick O. Rowe

- 54.** This question is directed to Nick O. Rowe. Will your compensation or the compensation of any other KAWC employee be affected by whether or not the QIP is approved by the PSC? If so, please state the name of each employee and how the compensation will be so impacted.

Response:

Neither Mr. Rowe's compensation nor the compensation of any KAWC employee is directly tied to the approval of QIP.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

55. Please refer to page 13, line 13 of the testimony of Nick O. Rowe. What is the ongoing trajectory of planned capital expenditures?

Response:

As can be seen in the Capital Investment table from page 9 of the testimony of Brent E. O'Neill, the trajectory of capital expenditures has, for the most case, been on an upward trajectory since 2012. KAWC has seen its average annual capital expenditures increase from an average of \$20 million to an average of \$25 million toward the end of that period. However, the projected spend to allow the Company to address its aging infrastructure is expected to be closer to \$35 to \$40 million by 2037 to reach the optimal projected annual pipe replacement rate of 0.9%. As Mr. Rowe states on lines 12 to 14 on page 13 of his testimony, KAWC's current regulatory structure, however, does not keep up with the ongoing trajectory of its planned capital expenditures, and this discourages expenditures in Kentucky verses alternative investments available to American Water in other states.

**KENTUCKY-AMERICAN WATER COMPANY
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FIRST REQUEST FOR INFORMATION**

Witness: Brent O'Neill

- 56.** Please refer to page 13, line 11 of the testimony of Nick O. Rowe. Please quantify what a “more optimal level of infrastructure investment means.”

Response:

A more optimal investment level for infrastructure replacements and rehabilitation should be adequate to keep pace with the anticipated remaining useful life of the infrastructure. The Company, however, is currently replacing its distribution system infrastructure on an approximately 377-year cycle. This is not the optimal level of infrastructure investment because our pipes will not last 377 years – they may last 60 to 100 years depending on a type of pipe material, soil conditions, and other factors.

**KENTUCKY-AMERICAN WATER COMPANY
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FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 57.** Please refer to page 13, lines 16-17 of the testimony of Nick O. Rowe. With specificity, please state whether in the past, KAWC has “lump[ed] a cumulative series of investments for episodic rate case filings.”
- (a) If the answer above is “yes,” please detail why that is accurate by referencing the case number, and the amount of capital requested from 2008 through the present in each such case.
 - (b) If the answer is “no,” please describe with detail as to how often rate cases are planned for the future with the amount of capital investment likely requested.

Response:

The very construct of a general rate case lends them to a periodic consolidation of the investments made by the Company to maintain and improve the system to support the areas it serves and the ability for it to recover those investments in approved rates.

The figures below are per the original filings:

Case No. 2008-00427 average forecasted UPIS of \$388 million
Case No. 2010-00036 average forecasted UPIS of \$566 million
Case No. 2012-00520 average forecasted UPIS of \$628 million
Case No. 2015-00418 average forecasted UPIS of \$679 million
Case No. 2018-00358 average forecasted UPIS of \$791 million

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Nick O. Rowe

- 58.** Has KAWC had difficulty attracting capital either internally from American Water or from outside capital? If yes, please provide evidence of this.

Response:

Yes. KAWC's parent, American Water Works Company, Inc. ("American Water") owns the common stock of regulated water and wastewater utilities in 14 jurisdictions, including Kentucky. While American Water always ensures that each of its water and wastewater utilities, including KAWC, is afforded funding to provide safe, adequate, and reliable service, investment funding is not limitless. American Water is competing with other companies and industries in the marketplace for capital, and American Water's subsidiaries are competing within the American Water system for discretionary allocations of American Water's investment and financing capacity.

Discretionary allocations within American Water can be influenced by a company's regulatory environment, as well as by market conditions and available funds. Like any rational investor, American Water considers its opportunity to earn a timely return when considering investment opportunities. All other things being equal, American Water, again, like any investor, generally favors timely, higher-return investments over delayed, lower ones, provided the investment risks are comparable.

American Water regulated subsidiaries in Illinois, Indiana, Iowa, Missouri, New Jersey, New York, Pennsylvania, Tennessee, Virginia and West Virginia have some mechanism to recover costs of infrastructure replacement in between general rate case proceedings. With KAWC being among the last of American Water's regulated subsidiaries without a mechanism to achieve timely recovery of its investment in accelerated infrastructure replacement, it is at a significant disadvantage to attract discretionary capital allocations from American Water as compared to its affiliates. The Company is currently replacing its distribution system infrastructure on an approximately 377-year cycle. This is not the optimal level of infrastructure investment because our pipes will not last 377 years – they may last 60 to 100 years depending on a type of pipe material, soil conditions, and other factors. KAWC has therefore at times had difficulty securing discretionary capital funding from American Water.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

59. If the QIP is approved what would be the expected reduction in rate cases filing from the present to 2030?

Response:

Please see the Company's response to Commission Staff's Second Request for Information, questions 57 and 63.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Nick O. Rowe

- 60.** Please refer to page 16, line 13 of Nick O. Rowe's testimony. Please provide any evidence, data supported or not, as to why KAWC has been "at a significant disadvantage to attract discretionary capital allocations from American Water as compared to its affiliates" from 2008 to the present. The response should include for each year the total amount of discretionary capital made available to each of American Water's affiliates, including Kentucky American Water.

Response:

Neither Kentucky American Water nor American Water specifically hold or track discretionary capital within its capital plans. While American Water always ensures that each of its water utilities is afforded access to capital to provide safe, adequate, and reliable service, investment funding is not limitless. The term discretionary is used to highlight the competitive nature on the availability of capital that Kentucky American Water operates in with respect to the utility subsidiaries in other states that American Water operates. See Company response to Item 58 of this request.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell and Brent O'Neill

61. Please see the testimony of Melissa Schwarzell on page 31, line 7.

- (a) What is the difference between revenue and non-revenue producing plant investment?
- (b) Will the Company receive a return on all of these investments?

Response:

- a. "Revenue producing" and "non-revenue producing" are terms used to differentiate between infrastructure investments that do or don't directly increase billing determinants (e.g. by bringing new customers onto the system).

Revenue producing plant investment would generally include new services, meters, and hydrants that were not installed as replacements for existing facilities. It would also include pipe extensions to serve new customers. Non-revenue producing plant investment would generally include all other infrastructure investment. On page 31, line 7, however, the testimony refers not only to non-revenue producing plant investment, but also qualified investment. Please see the proposed QIP tariff sheet in Exhibit 2 (First Sheet No. 48), as well as the testimony of Brent O'Neill for a discussion of which infrastructure investment would be eligible for inclusion in QIP.

- b. Generally, to the extent new plant investments are not funded by Contributions in Aid of Construction or Customer Advances, the Company would expect the opportunity to earn a reasonable return on all prudently incurred investment, subject to review by the Public Service Commission.

The QIP, as proposed, does not include revenue-producing investments as QIP eligible and therefore, they will not be included in the QIP for cost recovery purposes.¹ As noted above, like all prudently incurred investments, the Company will seek cost recovery of these investments, including the opportunity to earn a reasonable return.

¹ See Direct Testimony of Melissa L. Schwarzell, page 31, lines 7-9.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 62.** Please reference the testimony of Brent O'Neill in Case No. 2015-00418.
- (a) Please provide a copy of the Company's "capital investment plan" referenced therein.
 - (b) What date was it prepared?
 - (c) For what years 2008-2019 was the "capital investment plan" prepared? Please attach a copy of the plan for each of the years it was prepared.

Response:

- a) Please find the attached Strategic Capital Expenditure Plan provided as response to Commission Staff's First Request for Information Number 10 in Case No. 2015-00418.
- b) As indicated on the attachment, the revision date was July 7, 2015.
- c) The attachment is the only Strategic Capital Expenditure Plan that was prepared for the referenced Case No. 2015-00418.

STRATEGIC CAPITAL EXPENDITURE PLAN						
PROGRAM						
Business Unit	Kentucky					
Revision Date	July 7, 2015					
Description	KY BP 2016-2020 OVERALL SCEP					
			U.S. \$	U.S. \$	U.S. \$	U.S. \$
Business Unit	Business Unit No.	Project Title	Total 2015	Total 2016	Total 2017	Total 2018
RECURRING PROJECTS						
Kentucky	DV	Projects Funded by Others	2,000,000.00	2,500,000.00	2,500,000.00	2,500,000.00
Kentucky	A	Mains - New	750,000.00	1,265,000.00	753,500.00	775,000.00
Kentucky	B	Mains - Replaced / Restored	3,117,000.00	3,521,000.00	3,953,750.00	3,950,000.00
Kentucky	C	Mains - Unscheduled	335,000.00	335,000.00	335,000.00	340,000.00
Kentucky	D	Mains - Relocated	785,000.00	250,000.00	375,000.00	350,000.00
Kentucky	E	Hydrants, Valves, and Manholes - New	200,100.00	200,100.00	200,100.00	205,000.00
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	332,150.00	352,050.00	352,050.00	450,000.00
Kentucky	G	Services and Laterals - New	1,030,080.00	679,140.00	679,140.00	700,000.00
Kentucky	H	Services and Laterals - Replaced	650,000.00	452,500.00	452,500.00	500,000.00
Kentucky	I	Meters - New	542,412.00	374,220.00	374,220.00	400,000.00
Kentucky	J	Meters - Replaced	937,916.80	461,850.00	509,050.00	535,000.00
Kentucky	K	ITS Equipment and Systems	131,221.20	213,117.00	361,288.00	280,000.00
Kentucky	L	SCADA Equipment and Systems	140,000.00	260,000.00	250,000.00	250,000.00
Kentucky	M	Security Equipment and Systems	245,000.00	112,350.00	219,082.50	230,000.00
Kentucky	N	Offices and Operations Centers	150,000.00	225,000.00	275,000.00	250,000.00
Kentucky	O	Vehicles	552,000.00	660,060.00	660,000.00	660,000.00
Kentucky	P	Tools and Equipment	305,000.00	283,060.00	253,000.00	300,000.00
Kentucky	Q	Process Plant Facilities and Equipment	1,454,875.00	1,725,500.00	1,411,000.00	1,750,000.00
Kentucky	S	Engineering Studies	42,020.00	50,000.00	50,000.00	75,000.00
		Total Recurring Projects	\$11,699,775.00	\$11,419,947.00	\$11,463,680.50	\$12,000,000.00
ACQUISITIONS						
Kentucky		Total Acquisitions				
CENTRALLY SPONSORED PROJECTS						
Kentucky	R12-01K3	ITS Equipment and Systems - Centrally Sponsored	1,279,427.00	1,441,132.00	1,410,360.00	1,142,194.00
		Total Centrally Sponsored Projects	1,279,427.00	1,441,132.00	1,410,360.00	1,142,194.00
INVESTMENT PROJECTS						
Kentucky	I12-020003	I-75 Main Extension				1,100,000.00
Kentucky	I12-020019	New Ground Storage Tank				2,000,000.00
Kentucky	I12-020021	Power Reliability at Remote Sites		200,000.00	1,000,000.00	
Kentucky	I12-020024	US 60 Replacement/Upgrade				1,250,000.00
Kentucky	I12-020031	Todds and Cleveland Rd Main Extension				
Kentucky	I12-020032	RRS Filter Building Replacement	11,925,000.00	2,324,297.86		
Kentucky	I12-020037	KRS1 Chemical Storage and Feed Improvements		500,000.00	2,000,000.00	1,000,000.00
Kentucky	I12-020039	Georgetown Bypass and US 25 Area		250,000.00	1,100,000.00	900,000.00
Kentucky	I12-020040	KRS Valve House Rehabilitation (Phase 2)		950,000.00		
Kentucky	I12-020056	KRS Valve House Rehabilitation (Phase 1.B)	600,000.00	300,000.00		
Kentucky	I12-020043	Athens Boonesboro Main Extension	400,000.00	1,051,100.00		
Kentucky	I12-020044	Briar Hill Tank Area Water Age and Pressures				
Kentucky	I12-020049	KRS - Raw Water Access			1,000,000.00	1,000,000.00
Kentucky	I12-020050	Paving Field Ops and Front Entrance			350,000.00	
Kentucky	I12-020051	KRS High Service Pumps Replacement		1,000,000.00	1,680,000.00	
Kentucky	I12-020052	Millersburg Tank Replacement		450,000.00		
Kentucky	I12-020053	Pressure Zone Creation - Hays/ Andover/ Winchester				
Kentucky	I12-020054	RRS HS Pump Station and Clearwell				
Kentucky		RRS Gas Chemical Conversion				
Kentucky		KRS1 CT Improvements				5,000,000.00
Kentucky	I12-020055	New Circle Rd Main Relocation		775,000.00		
Kentucky	I12-000001	Post Acquisition BD Capex	60,000.00	60,000.00	60,000.00	60,000.00
		Total Investment Projects	12,985,000.00	7,860,397.86	7,190,000.00	12,310,000.00
		Total Investment and Centrally Sponsored Projects	14,264,427.00	9,301,529.86	8,600,360.00	13,452,194.00
		Services Contributions	(935,000.00)	(950,000.00)	(950,000.00)	(950,000.00)
		New Circle Rd Main Contribution	(640,000.00)	(360,000.00)		
		Developer Contributions	(815,000.00)	(910,000.00)	(910,000.00)	(910,000.00)
		Advances	(1,501,000.00)	(1,550,000.00)	(1,550,000.00)	(1,550,000.00)
		Total Refunds	1,085,000.00	1,100,000.00	1,100,000.00	1,100,000.00
		Gross minus ITS CS	26,684,775.00	21,780,344.86	21,153,680.50	26,810,000.00
			(2,806,000.00)	(2,670,000.00)	(2,310,000.00)	(2,310,000.00)
		Net minus ITS CS	23,878,775.00	19,110,344.86	18,843,680.50	24,500,000.00
		Gross plus ITS CS	27,964,202.00	23,221,476.86	22,564,040.50	27,952,194.00
			(2,806,000.00)	(2,670,000.00)	(2,310,000.00)	(2,310,000.00)
		Net plus ITS CS	25,158,202.00	20,551,476.86	20,254,040.50	25,642,194.00

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 63.** Please reference the Accelerated Pipe Replacement Program referenced in Exhibit 1 to the testimony of Brent O'Neill in Case No. 2015-00418.
- (a) Please provide a copy of the Company's Accelerated Pipe Replacement Program referenced therein.
 - (b) Was the Program implemented?
 - (c) If so, please provide the results and any analysis of the Program.
 - (d) If not, why was it not implemented?
 - (e) Why was it not included as a part of the settlement?

Response:

- a. Attached please find Exhibit BEO-1 of the testimony of Brent O'Neill in Case No. 2015-00418. The exhibit is the Aging Infrastructure, A Review of the Water Distribution System report conducted in 2015.
- b. No.
- c. The program was not implemented.
- d. The program was an acceleration of water main replacement associated with the request to implement a Qualified Infrastructure Program (QIP). Without the implementation of the QIP, KAWC continued to make investment in main replacements at a rate of 4.2 miles in 2016 and 5.3 miles in 2017. However, this fell short of the reports recommend replacement rate of 9.6 miles per year.
- e. KAWC withdrew its request for a QIP, with the understanding that the Company's withdrawal did not preclude it from seeking approval of a QIP or any other similar infrastructure replacement regulatory mechanism in a future proceeding.



AGING INFRASTRUCTURE

A REVIEW OF THE WATER DISTRIBUTION SYSTEM



2015

Kentucky-American Water Company

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Introduction

Similar to other water utilities, the water distribution system of Kentucky American Water is beginning to reach its expected life expectancy. Even though the company has made investments in the replacement of the aging infrastructure, the rate at which existing infrastructure is reaching its useful life continues to increase at a quicker pace than the work to replace the outdated mains occurs.

One of the major challenges that water utilities face is that the distribution systems were installed to support the growth of communities that varied over time. The mains installed during the high growth periods reach their life expectancy at the same time, resulting in sections of communities that need all of the mains replaced in a short time period.

In addition, during the periods of system expansions, different pipe materials were used as they were introduced as an alternative to the existing main materials. With each pipe material, the life expectancy of the main is different. Unfortunately, that results in periods where pipes that were installed at different times in the past reach their useful life at the same time as other types of pipe material, increasing the amount of mains that need to be replaced throughout the system in a compressed timeframe.

As the American Water Works Association indicated in their May 2001 publication, “Reinvesting in Drinking Water Infrastructure,” a new era was emerging regarding the operation of our water infrastructure—the replacement era—where water providers would need to replace the water infrastructure that was built for us by earlier generations.

Although Kentucky American has made investments in the replacement of over the past decades, the amount of main replaced cannot keep up with the expected amount of main requiring replacement that will occur in the coming decades.

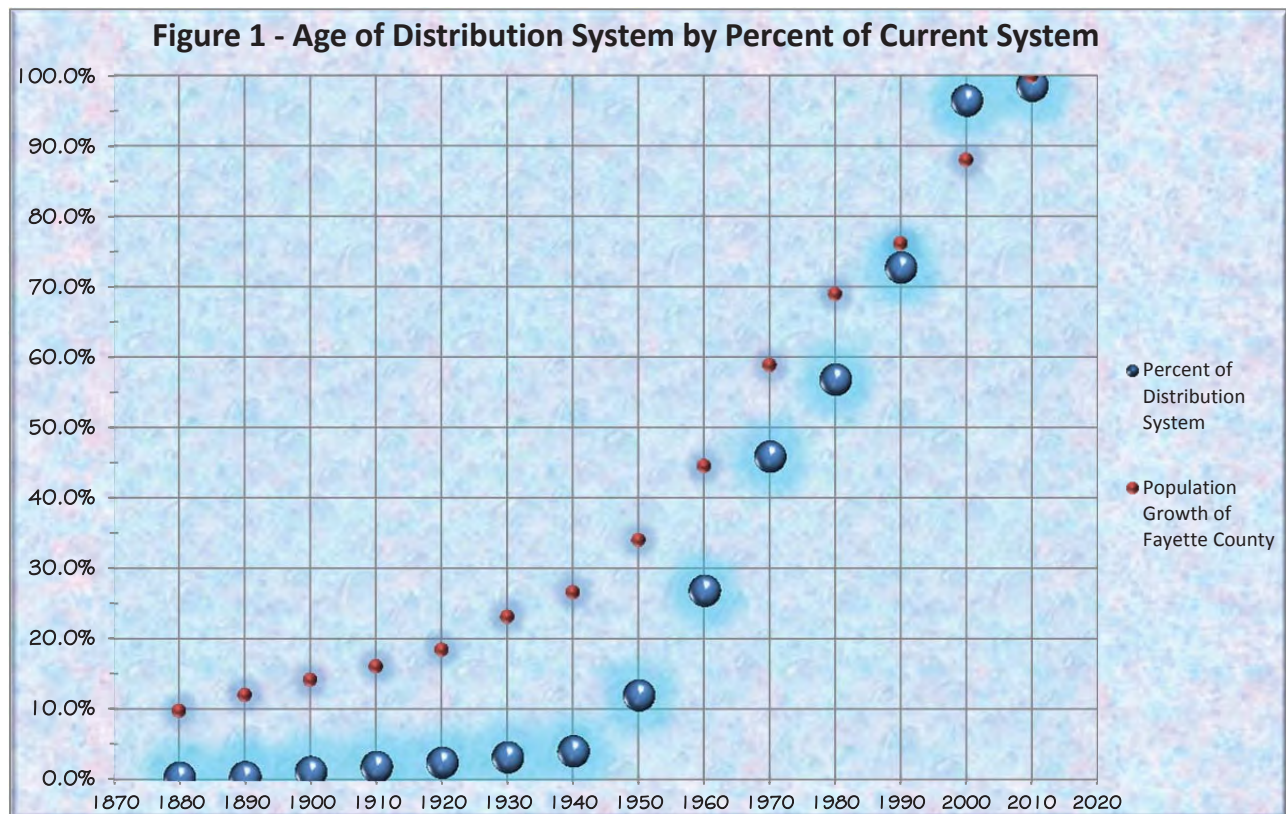
System Background

Kentucky American Water first began operation as the Lexington Hydraulic and Manufacturing Company providing water to Lexington in 1885. The company was started by three local businessmen who saw a need for a water system to help fight fires and prevent disease. During the early 1970s the name changed from the Lexington Water Company to the current Kentucky American Water Company.

Since 1885 the system has grown from serving approximately 200 customers to about 124,000 customers within 11 counties, including Fayette County. With that growth the distribution system has expanded to include approximately 1,975 miles of water mains of a variety of sizes and material types.

History of the Growth of the Distribution System

Kentucky American's water distribution system growth mirrors the growth of the City of Lexington and Fayette County. Figure 1 shows the percent of the water distribution system that was installed within each of the decades from 1880 to present.



From the start of the system in 1885 through the 1940's the area was predominately an agricultural based economy and growth was steady. Main installed during that period was unlined cast iron main and represents approximately 4% of the current distribution system (75 miles of main). This amount used to be a greater amount of the distribution

system, however during the 1980s and 1990s the Company undertook a concerted effort to replace this era of cast iron main.

Following World War II, Lexington experienced an increased growth rate due to the move away from agriculture and the baby boom. During the 1950's and 60's, the distribution system also grew substantially to keep up with the expansion of Lexington. Main installed during that period was cast iron, both cement lined and unlined. During this period asbestos cement pipe was introduced for the first time into the distribution system. The main installed during this period represents 23% of the current distribution system (425 miles of main).

The Lexington system experienced its greatest growth during the 1970s through the housing boom of the first part of 2000. During this period Lexington experienced a growth due to industry and service companies locating and growing in Fayette County. In addition, Kentucky American acquired several outlying systems by growing into the counties surrounding Fayette County. Also during this period, the main extension from Kentucky River Station Two to the Lexington distribution system was placed into service during September 2010, which was during the end of this time frame. Main installed during this period represents 66% of the current distribution system (1,293 miles of main). Asbestos Cement pipe was the predominate material installed during the start of this period with Ductile Iron pipe and PVC becoming the predominate material during the 1980's.

From 2010 to present, the distribution system has seen a much slower growth rate and represents a little more than 2% of the current distribution system (39 miles). Currently, the predominate material installed is Ductile Iron with some PVC pipe.

Pipe Materials in Distribution System

The Kentucky American distribution system contains mostly five major material types. Those types are Ductile Iron, PVC, Asbestos Cement, Cast Iron Lined and Cast Iron Unlined. The period that the system was growing determines the areas and the amount of each material type in the system. Table 2 provides a listing of the major material types in the distribution system along with the amount of each material in miles and percentage of that material within the system:

Table 2 – Distribution System Material Types		
	Miles of Material	Percentage of System
Ductile Iron	808.5	43.3
PVC	418.0	22.4
Asbestos Cement	342.7	18.4
Cast Iron Unlined	170.7	9.1
Cast Iron Lined	65.9	4.1
Galvanized	6.0	0.2
Prestressed Concrete	15.8	1.0

Distribution of Pipe Material by Decade

When the material type is compared to the timeline of growth of the distribution system, certain periods of time were dominated by particular pipe materials. During the first part of the system development from 1885 to 1950, cast iron unlined and lined was the predominant material. During 1950 to 1980, asbestos cement pipe was used along with cast iron pipe and the introduction of ductile iron into the system. After 1980, ductile iron pipe dominated the material type being used to meet system growth. PVC pipe use in new water main was not prevalent in the distribution system except for small diameter pipe. During the 1980s, 90s and 2000s with the acquisition of systems, PVC was introduced into the Kentucky American distribution system. Table 3 provides a breakdown by decade of the material types used in the expansion of the distribution system.

Decade	Material Types						
	Cast Iron Unlined	Cast Iron Lined	Asbestos Cement	PVC	Ductile Iron	Galvanized ²	Other ¹
1881 - 1890	5.5						
1891 - 1900	1.6						
1901 - 1910	15.3	0.2					
1911 - 1920	11.7	0.7				0.1	
1921 - 1930	8.6	2.2					
1931 - 1940	7.6	6.7	0.1				
1941 - 1950	3.3	5.7	12.2				
1951 - 1960	21.2	55.1	71.8	0.5	0.2	1.2	8.5
1961 - 1970	49.5	5.1	96.5	65.0	50.5	1.2	12.8
1971 - 1980	46.4		122.8	138.4	15.4	0.1	22.2
1981 - 1990			13.8	35.9	163.9		
1991 - 2000			0.3	27.0	282.7	0.1	
2001 - 2010				145.6	265.5		
2011 -					30.4		

1 – Other represents Lead Pipe, Reinforced Concrete Pipe and PEP Pipe

2- In most cases the Galvanized Pipe indicated on this table occurred during acquisitions during these periods

Expected Life of Pipe Material

Based on information developed by American Water Works Association for the “Buried No Longer” report released in February 2012, Table 4 provides an estimated expected service life for pipes of varying material. The expected life was determined based on operating experiences of water utilities and insight from research with typical pipe conditions based on pipe material and varying conditions of age and size.

Table 4 – Average Expected Life of Pipe Material						
Material Types						
Cast Iron Unlined	Cast Iron Lined	Asbestos Cement	PVC	Ductile Iron	Galvanized	Concrete
110 yrs	100 yrs	90 yrs	55 yrs	80 yrs	70 yrs	105 yrs

This table is a simplification of reality since the life of the pipe is also impacted by the pipe material, soil properties, installation practices and climate conditions. Kentucky American has experienced that pipe life depends on many variables, such as soil conditions and installation practices, rather than just the age of the pipe itself. The company has had many pipes last longer than the typical service life indicated, but has had other pipes fail sooner than expected. For the purpose of this report and due to the lack of specific data that allows the company to develop an understanding of each condition that affects each pipe segment in the system, the average life expectancy provides a reasonable approximation of the replacement rate.

Using the average expected life for Kentucky American's distribution system indicates that the pipe that has been installed over the past 130 years will need to be replaced over the next 85 years to ensure that the system is maintained within the expected life of the networks pipe material.

Importance of Replacing Mains

Access to clean reliable water is critical for the communities served and has become an intrinsic responsibility of those who manage the water infrastructure throughout the world. Safe drinking water is important to the health and economic welfare of a community. The ability to obtain clean water, free of contaminants, reduces sickness and related health costs. In addition, the ability to access a sufficient supply creates economic opportunities throughout the community.

As the water distribution system begins to reach its useful life, failures in the infrastructure begins to occur that impact the ability to provide safe and reliable service to the community. Neglecting this aging infrastructure will increase the frequency of water main breaks and leaks, leading to the corrosion of surrounding utility pipes, disrupting automobile, pedestrian and public transportation and stymieing local economic activity.

Although most of these breaks are minor, serious ruptures can and do occur. With these serious breaks the impact can be catastrophic due to flooding of streets and sidewalks, and in some instances flooding of local businesses and basements of local residents. In rare instances, the loss of water can undermine pavement or building foundations that can lead to the failure of pavements or the loss of a building that can result in significant property damage and serious injuries.

We have seen numerous examples of serious failures over the past few years that have affected major metropolitan areas. On June 18, 2015 Louisville Water Company experienced a break on a 60-inch water main that impacted 33,000 customers and caused the road to buckle, breaking apart huge pieces of pavement that floated and damaged vehicles in the area. The break also caused damage in adjacent parking lots and impacted the ability of the local residents to continue with their regular routine.



This break follows a 48-inch water main break during April 24, 2014 near the intersection of Eastern Parkway and Baxter Avenue that caused the intersection to be closed for at least 6 days. The break sent water cascading down Baxter Avenue, flooding Tyler Parks and nearby yards. In addition, the break flooded athletic fields on the University of Louisville campus and caused concerns for participants of athletic camps that were on the fields at the time of the break.



One of the most significant breaks of 2015 was a water main break near the University of California in Los Angeles on July 29 that caused massive street flooding and damage on the campus. The break caused the loss of more than 20 million gallons during the 3 and half hours that it required to turn off the main. The water flooded into the university and entered numerous buildings and structures causing significant damage. Firefighters saved up to five people that were stuck in underground parking structures and trapped more than 730 cars with half of the vehicles being entirely submerged.



Kentucky American Water has not seen these dramatic of main breaks over the past few years, but it has seen several main breaks that have not only caused impact to the adjacent area that is surrounding the break but has also caused traffic disruptions and inconveniences due to repair activities. Some of these breaks have resulted in business disruptions and economic impact to the community.

The American Society of Civil Engineers study “Failure to Act,” released in 2012 on the economic impact of under-investing in our water and wastewater infrastructure, the authors estimated that remaining on the current track will cost American businesses and households \$216 billion in increased costs between now and 2020, and the cumulative loss to our gross domestic product (GDP) will be \$400 billion, directly due to deteriorating water infrastructure. Without additional investment in the infrastructure, almost 700,000 jobs will be threatened due to unreliable water delivery and wastewater treatment services.

The impact of a water main break is mostly a localized impact, with the exception of large main breaks that impact a large portion of the community or the loss of the service to the entire community. The loss of water through leaking pipe as the infrastructure ages is an impact that affects the entire community, most of the time with no one knowing it is occurring. This loss of water typically manifests itself in an increase in “non-revenue water.” A high level of non-revenue water affects the financial viability of water utilities through lost revenues and increased operational costs. Although Kentucky American Water’s non-revenue water is at or below the industry standard, there is concern that over time the ability to manage non-revenue water would be impacted without a systematic approach for replacing aging infrastructure.

Other than the impact of pipe failure, the aging infrastructure also impacts the ability to provide adequate service to our customers and the system’s ability to meet fire flow requirements. A majority of this older infrastructure was installed during a period where the expectations or requirements for fire service and household appliances were not as great as we see it today. In some cases, deposits within the pipes have also reduced its ability to provide adequate water flow for customer uses and fire service.

By investing in the replacement of the infrastructure enhances the system’s ability to meet the service expectations of the customers. The ability to replace this aging infrastructure allows the company to provide improved service to the customer and usually improves fire protection. In addition, the areas of the system that are replaced are made more robust and are more resilient during periods of high demands and reduces the number service disruptions.

The investment in replacing the infrastructure allows for a more robust system that enhance the ability of the community to compete for new business and industries, which is an important economic benefit to the community. According to the U.S. Conference of Mayors, every dollar invested in water infrastructure adds \$6.35 to the national economy.

Previous Review of Network

During 2009, Kentucky American Water commissioned Gannett Fleming to conduct an Analysis of Non-Revenue Water for the system as ordered by the Commission as part of Case No. 2007-00134. A part of that analysis was a determination if there was a correlation or trend in the occurrence of main breaks and leaks in the Central Division. The analysis was conducted on 1,927 main breaks reported from January 2000 to October 2008.

Review of the main break data indicated that a majority of breaks (82%) in the system during this period were reportedly caused on Ground Shift/Other. Age and Deterioration was reported to be the cause of approximately 10% of the breaks. Pressure Surge, Tree Roots, and Clamp Failure were reported to be collectively the cause of the remaining 8% of the breaks during the period of January 2000 to October 2008.

The main breaks that were reportedly caused by Age and Deterioration or Ground Shift/Other occurred on unlined cast iron main 53% of the time and, in particular, a significantly high percentage of reported breaks associated with age and deterioration occurred on unlined cast iron mains 37% of the time. The analysis indicated that the highest percentage of breaks caused by Ground Shift/Other occurred on unlined cast iron main and asbestos cement main (34% and 26%, respectively).

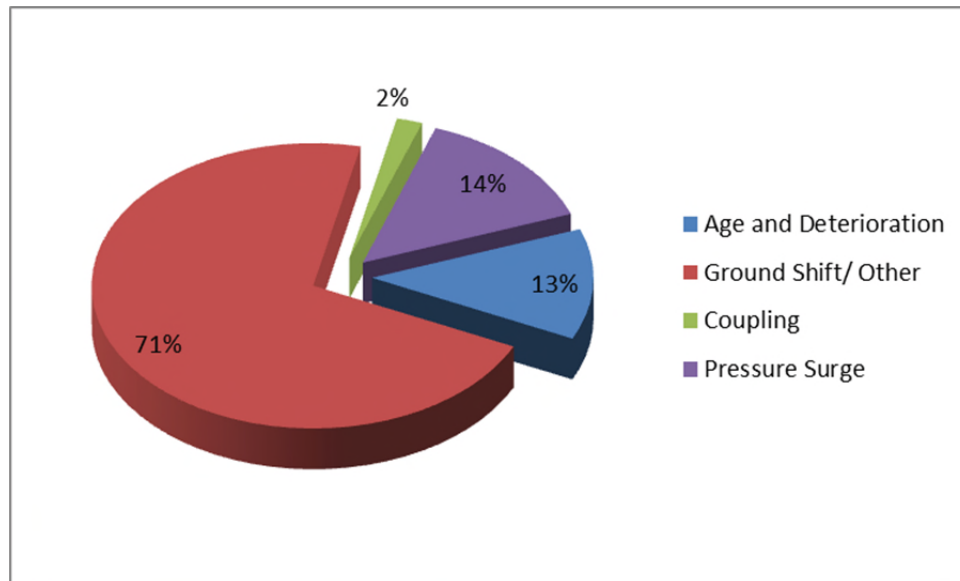
The analysis by Gannett Fleming found that replacing specific main sizes or types of material that exhibit a high concentration of breaks would not have a substantial impact on reducing non-revenue water. Gannett Fleming concluded that other factors should be considered with regard to replacement of problematic main rather than trying to control non-revenue water.

During the review of the main break history, Gannett Fleming found that the highest concentration of reported main breaks occurred on unlined cast iron. The concentration of reported main breaks on galvanized steel main was also significantly higher than the system average of 0.9 breaks per mile of main. Gannett Fleming suggested that a main replacement program targeting unlined cast iron main and galvanized steel main, specifically those less than 4 inches in diameter, should be considered to reduce the occurrence of main breaks.

Current Review of Network

Review of the main break history from January 2012 to August 2015 indicated that there has been 581 breaks during this period, averaging about 175 per year. Similar to the finding of the 2009 Gannett Fleming report, the current break history indicates that 71% of the main breaks are caused by ground shift. This percentage decreased from 82%, while the age and deterioration breaks increased to 14% compared to 10% during the past review. Although a small increase, it is an indication that the distribution system is

aging and we would expect to see an increase in these types of breaks as the age of the mains increase.

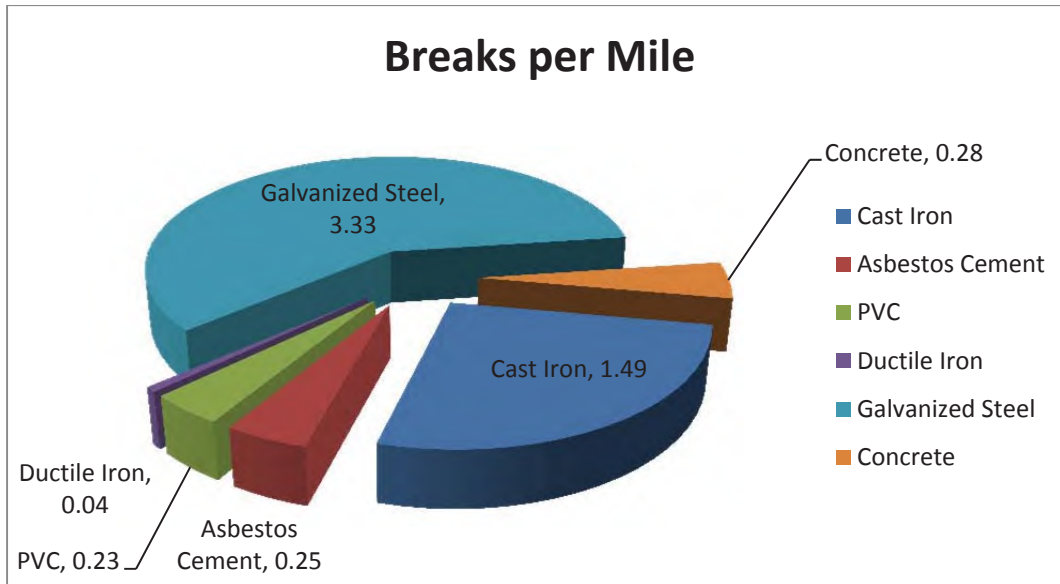


The average number of breaks per year has decreased from 222 per year for the period of January 2000 to October 2008 to 175 per year for January 2012 to August 2015. This reduction is indicative of the main replacement work conducted following 2008 that specifically targeted mains with high break incidents.

Review of the reported breaks from January 2012 to August 2015 indicated that main breaks on cast iron main represented 60% of all of the breaks. Since cast iron main lined and unlined material only represents 13% of the total inventory of mains in the ground, the break rate on this type of material is significantly higher than the other material in the system.

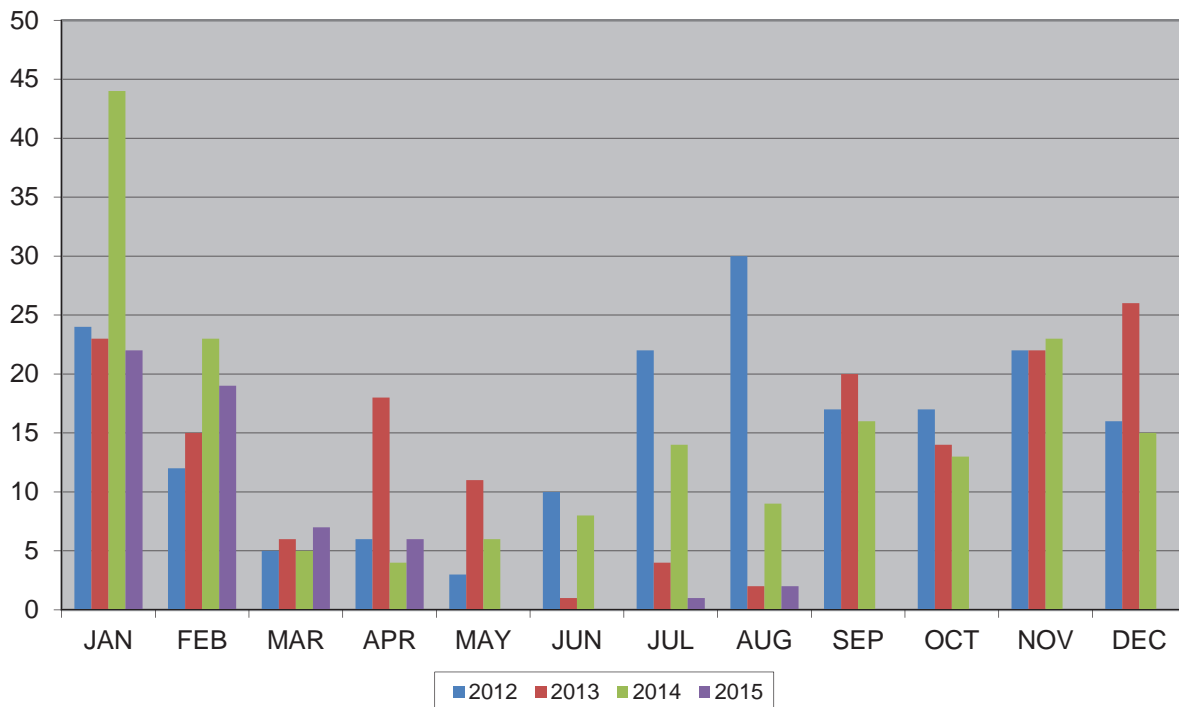
Table 5 – Breaks by Material					
Material Types					
Cast Iron	Asbestos Cement	PVC	Ductile Iron	Galvanized	Concrete
60.4%	14.9%	16.6%	5.3%	1.9%	0.9%

The break rate per mile of main shows that cast iron main had a break rate of 1.49 breaks per mile of main compared to ductile iron which saw a break rate of 0.04 breaks per mile of main from January 2012 to August 2015. The worst performing material was galvanized steel which had a break rate of 3.33 breaks per mile of main.



Another area reviewed in the main break data from January 2012 to August 2015 indicated that 52% of the breaks occur between November to February of each year with the lowest break period being during May and June. Analysis of the break reports would support that ground shift breaks cause the most failure of the pipe material and we would expect to see the ground shifts occur during the November to February time frame. It should be noted that the high break occurrence that is observed in July and August of 2012 is believed to be caused by ground shift breaks that occurred following high rain events during each of those months.

Main Breaks by Month



With ground shift breaks being 71% of the overall breaks that occurred during January 2012 to August 2015, this would correlate with pipe materials that are susceptible to ground movement or shifting being at greater risk than other materials. Cast iron and galvanized steel are not resilient to tension and bending forces that result in ground shifting and contributes to the higher break per mile numbers that the system has experiencing. In addition, both of these materials

Cast iron and galvanized steel are good at controlling internal forces and crushing forces that were generally used during the design stage when this material was placed into service. The industry gained the knowledge that cast iron and galvanized steel were susceptible to bending forces and encouraged the introduction of other materials. Materials such as ductile iron and PVC handle these types of forces and as such are more resilient to this type of ground movement. This resulted in the water utility industry standardizing on ductile iron and PVC and moving away from cast iron and galvanized steel.

Current Replacement Effort

Following the Gannett Fleming report in 2009, the replacement effort was predominantly driven by mains that exhibit high break frequency and requests by operations to replace mains to address multiple repair trips to the same main. During the period of 2009 to 2013 the average spend on main replacement projects was \$1.06 million per year. The main replacement projects replaced all types of material that were experiencing high break frequencies, but the majority of the type of main replaced during this period was cast iron main. With this effort the amount of cast iron main replaced in the system was 10.5 miles with an average of 2.1 miles a year.

In 2014 there was a renewed effort to review the distribution infrastructure and start to address the aging infrastructure needs of the system. During 2014 and through August 2015 the average spend on main replacement projects was \$4.2 million per year. Based on this current effort the amount of cast iron main replaced in the system from January 2014 through August 2015 was 7.8 miles with an average of 3.9 miles.

Since 2009 the main replacement work has replaced 18.3 miles of cast iron main from the system and replaced it primarily with ductile iron main. This represents a replacement rate for cast iron main of 2.6 miles per year during the 7 year period including the accelerated rate of 3.9 miles per year over the past 2 years from 2014 and 2015. While this is making significant progress, it is still not enough to address the rapidity aging distribution system. At the current rate over the past few years it would take approximately 60.6 years to replace all of the cast iron main in the distribution system. At the end of the 60 year period the possible age of a cast iron main could be 200 years old or twice the life expectancy for this type of material.

Main Replacement Criteria Development

With the renewed effort to review the distribution system in 2014, Kentucky American Water analyzed the methodology for planning main replacement to ensure that the distribution system could meet the needs of its customers and strategize ways to reduce the failure rate of mains. The previous method of determining main replacement was based on break history and requests from the operations group on which mains to replace was determined to be too limited in determining the most critical mains to replace.

With the understanding that continued enhancement of the Kentucky American Water system would require a systematic replacement plan to ensure that the right mains were being replaced at the right time, the company established a goal in 2013 to research and develop tools to assist in developing the plan.

The first step was to develop the criteria that would be used to assess the existing mains and develop a list of mains that were in critical need of being replaced. It was determined that a main replacement assessment standard would require adoption of several criteria to determine which mains would need to be replaced. Development of the assessment standard considered the inclusion of eight criteria that played a major role in providing reliable service and were a good indicator of the condition of the main. These criteria are included in Table 6.

During developmental of the criteria it was determined that several of the criteria had interrelationships with each other and contributed to the performance of a section of water main. One of the interrelationships was main size and fire flow. In addition, it was determined that leaks can also be related to the age and material of the mains, and material types can be related to the water quality aspect of the main.

Due to the interrelationships of the eight criteria, the team established relative weights for each criterion to ensure that the targeted drivers for the main are given greater consideration. Age, material type, low pressure, number of breaks and water quality were the primary criteria that would be used to determine main replacement. These criteria allowed the main replacement program to ensure that mains that were not meeting the needs of the community and customers were addressed quickly.

Along with the criteria weighting, the assessment contains a rating standards for each of the eight criteria. A numeric rating of between 1 and 5 was used for each criterion – with 1 being the better rating and 5 being the worst rating.

TABLE 6 - MAIN REPLACEMENT CRITERIA						
Criteria (Max. Points)	Weight	Rating				
		1	2	3	4	5
Low Pressure (75)	15x	50 psi or greater	50 psi to 45 psi	45 psi to 40 psi	40 psi to 35 psi	< 35 psi
Number of Breaks/Leaks (75)	15x	0 breaks/5-year avg.	1-2 breaks/5-year avg.	3-4 breaks/5-year avg.	5-6 breaks/5-year avg.	< 6 breaks/5-year avg.
Fire Flow (50)	10x	Greater than 1,500 gpm (Blue)	1,500 to 1,000 gpm (Green)	999 gpm to 500 gpm (Yellow)	Less than 500 gpm (Red)	Known problems
Age (75)	15x	1995 or later	1980 to 1994	1970 to 1979	1960 to 1969	1959 and prior
Material Type (75)	15x	DI/RCP	PVC/HDPE	Transite/AC	CI/CLCI	Gal. / Steel
Size of Main (50)	10x	8 inch and above	6 inch	4 inch	2 inch to 3 inch	Main smaller than 2 inch
Water Quality (75)	15x	Flushing but not routine	Monthly Flushing	Bi weekly Flushing	Weekly (or more frequent) Flushing	Continuous Flushing (w/ discussion)
Customer Impact (25)	5x	less than 2 customers	2 to 10 customers	11 to 20 customers	greater than 20 customers	School/Hospital (Critical Customer)

An electronic database was developed to assist in the assessment and prioritization of the replacement mains and subsequent development of replacement schedules. The database is designed to perform the necessary queries and calculations to determine the main section overall rating and ranking. Initially 62 mains were entered into the database as a pilot to ensure that the assessment tool was capturing the critical needs of the system and identified the more critical sections to replace.

During most of 2013 through 2015 this initial list has provided a schedule for which mains are in need of replacement and provided a schedule that has been used to guide the main replacement program.

As with any tool, there are still external drivers that influence the main replacement program. These external items such as roadway paving schedules, weather or construction considerations are combined with the results of the assessment tool to make adjustments in the replacement program. This combination of tools and subjective considerations allows for a more reactive replacement program that is in concert with the community and allows for efficient use of available resources.

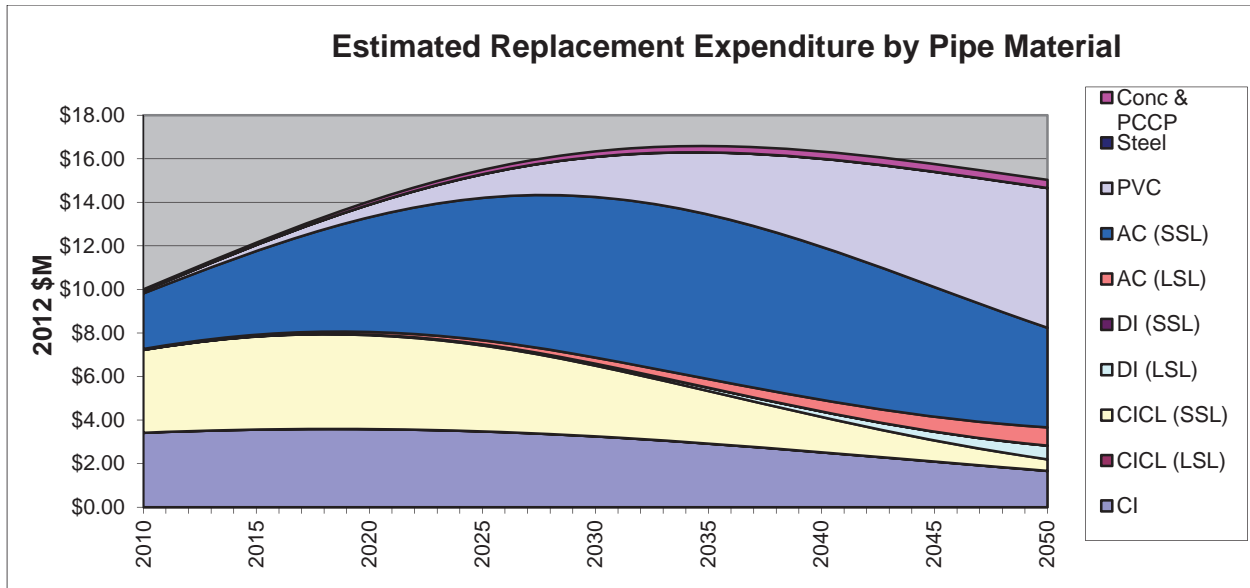
Nessie Model

While the assessment tool provides a numerical approach of determining the critical mains to replace, the company needed to determine the overall scope and financial impact over a longer planning horizon. The company looked for tools that could provide assistance in determining the capital needs for water main replacement in the coming years that considered the life expectancy of the infrastructure.

The American Water Works Association report “Dawn of the Replacement Era” developed a process that created a “Nessie Curve” for the 20 systems it reviewed in the report. The Nessie Curve, so called because the graph follows an outline this is likened to a silhouette of the Loch Ness Monster, provided a visual representation of the capital needs during a defined time frame to rebuild the underground infrastructure of the 20 systems. With the report “Buried No Longer,” AWWA further developed the analysis of the underground infrastructure and developed the “Nessie Model.”

The model uses pipe failure probability distributions based on past research with typical pipe conditions at different ages and sizes coupled with the indicative costs to replace each size and type of pipe, as well as the cost to repair the projected number of pipe breaks over time. The model projects the “typical” useful service life of the infrastructure based on pipe inventories of the system and estimates how much pipe of each type should be replaced in each of the coming 40 years. The model then combines the amount of infrastructure that should be replaced with the typical cost to replace the mains to create an estimate of the total investment cost for the 40 year planning horizon. The model represents this data through a series of Nessie Curves to depict the suggested amount of spending required to replace the main at the optimal life cycle for each material type.

Kentucky American Water utilized the Nessie Model to provide an insight on the amount of capital that is suggested to ensure that the distribution system is being replaced to account for the useful life of the distribution mains. The chart below provides the Nessie Curve developed by the model over a 40 year time frame of the estimated capital needed to replace the appropriate pipe material in the system based on the materials useful life.



The model identifies that cast iron main is the material that needs to be replaced initially followed by asbestos cement. During the 40 year period the model projects that during the first 20 years approximately \$6 to \$8 million each year is needed for cast iron main replacement declining to \$3 million during the final 20 years. At the same time the model suggests that asbestos cement main be replaced at a rate of \$3 to \$7 million each year during the 40 year period. In the outer years of the planning horizon, replacement of PVC main and ductile main begin to be shown as a need in order to address the life expectancy of those material types.

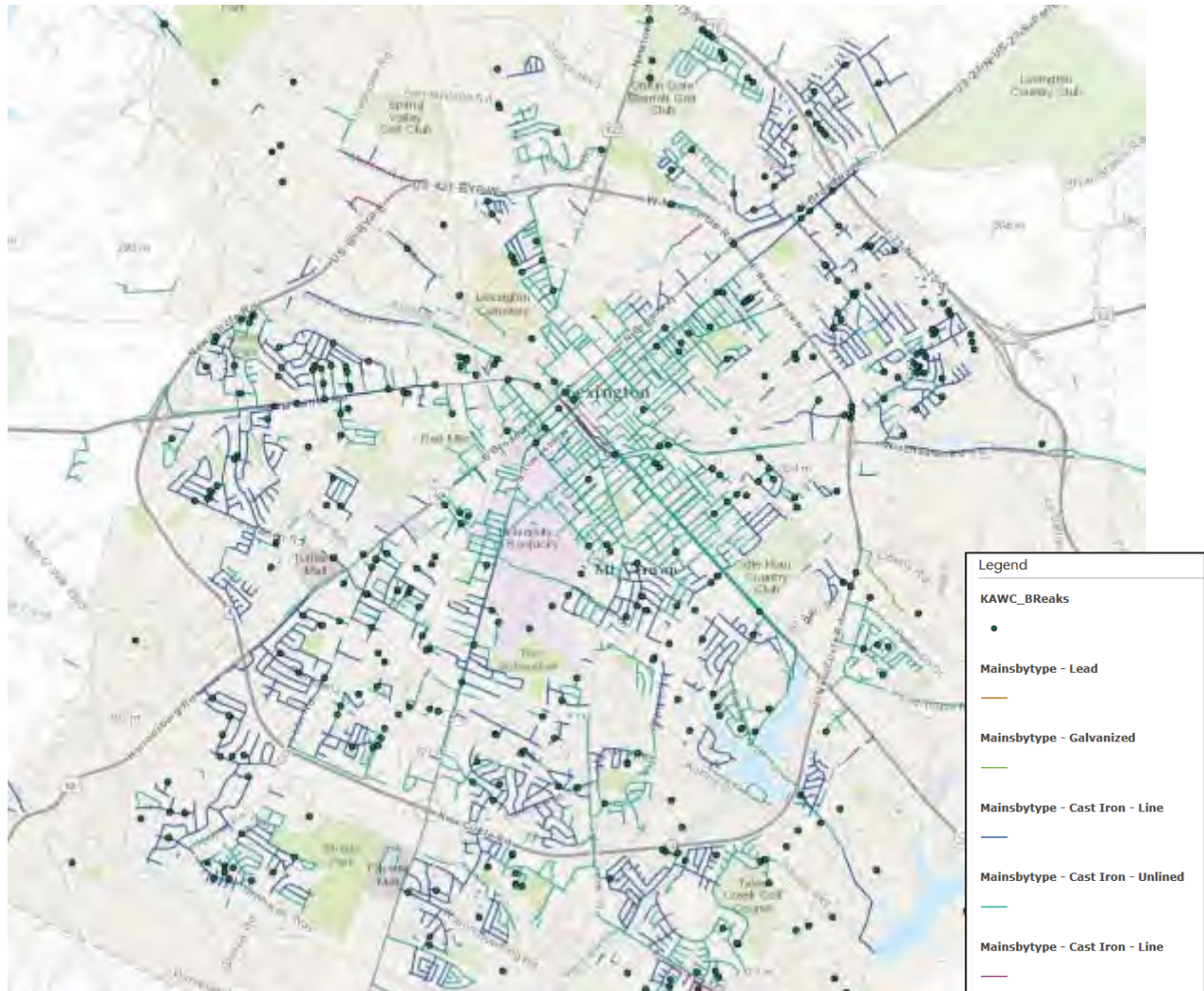
The curve reflects an “echo” of the original trends that shaped the development of the system starting in 1885. The identified capital needs is a reflection of the main installed nearly a century ago that have created a future obligation to replace the mains as they reach their useful life that is now coming due.

Proposed Accelerated Replacement Plan

Kentucky American recognizes that the past rate of replacement of aging mains the company has employed is not sufficient to address the increased replacement rate that will be required over the coming decades. The need to begin to rebuild the distribution infrastructure that was bequeathed to us by earlier generations is essential to maintain the needs of the community and customers.

Upon review of the distribution system and the material types used in the development of the system, Kentucky American believes that the first materials that need to be replaced in the system is cast iron main and galvanized steel. These two materials represent approximately 13% of the distribution system but account for approximately 62% of all main breaks in a given year.

The company utilized its Graphical Information System (GIS) to query the main breaks during the period of January 2012 to August 2015 against the main types in the system and found that empirical data from the database is depicted graphically. The following map shows the main breaks during the 2012 to 2015 period against cast iron and galvanized steel main.



The map identifies two items rather definitively. The first is that a majority of the cast iron main was installed during the first half of the development of Lexington. The map clearly shows that a majority of downtown Lexington remains cast iron and to the most extent unlined cast iron. In addition, with the development of the community away from downtown, the map shows those subdivisions during this period that cast was used as the predominate material to serve these areas. It is interesting to note that a majority of the development during the time was within the inner circle, with only small pockets of development along the outside of the circle.

The second item that the map shows is the correlation of the main breaks within the areas that are predominately cast iron and galvanized steel. The remaining main breaks shown on the map are scattered throughout the system and have no indication that there are significant trouble spots from the other distribution system material types at this time.

Based on the information reviewed by the company over the past few years and the data developed for this report, a majority of the mains that are susceptible to breaks are cast iron and galvanized steel. Kentucky American believes that the best course at this time is to target this type of pipe material over the next 25 years for replacement. The replacement of this type of material allows the company to address underperforming mains and reduce the impact of main breaks in the areas served by this type of material. A review of several replacement periods was reviewed and illustrated in Table 7, indicating that with a 15 year plan would cost \$11 million annually and a 30 year period would cost \$5.5 million per year.

TABLE 7 - POSSIBLE REPLACEMENT RATES FOR CAST IRON				
Period Length	15 year	20 year	25 year	30 year
Miles Replaced per year	16.0	12.0	9.6	8.0
Cost per year	\$ 10,978,583	\$ 8,233,938	\$ 6,587,150	\$ 5,489,292

Analysis of the four possible replacement rates lead the company to believe that a 25 year replacement period was more realistic. The 30 year replacement rate would result in a greater overlap of replacement activity between the completion of the cast iron main replacement and the start of the asbestos cement main replacement period.

With the 15 year and the 20 year replacement periods the removal of the cast iron main was removed from the system quicker and allows for the effort to replace asbestos cement to begin sooner. However, the amount of capital required per year was a concern with respect to support from the community. In addition, with the level of capital commitment per year for the 15 year and 20 year replacement rates could have a negative impact on Kentucky American to address other infrastructure replacement needs such as water treatment components at the water treatment plants that are also entering the end of their useful life.

Finally, the amount of mile of replacement main per year of 16 and 12 miles for the 15 year and 20 year replacement rates is a concern for the impact on available resource to complete the construction each year. The 15 year replacement rate is a fourfold increase in the amount of main replaced during the 2013 and 2014. This increase would be a significant strain on the available company and contractor resources and

would require a substantial increase in labor and equipment that Kentucky American is concerned can be sustained over the period of the replacement program.

Through a 25 year replacement period, the 240 miles of cast iron main will be replaced at a rate of 9.6 miles per year at an expected cost of \$6.59 million per year. At the conclusion of the 25 year replacement period for cast iron, the company will start to focus on the replacement of the 342 miles of asbestos cement pipe, which the earliest pipe installed during 1935, and at which point will be entering its 105th year of useful life.

Conclusion

Thanks to the work of past generations that developed and built the water distribution system to support the growth of our community, we have enjoyed the access to clean water and economic advantages that it has provided. Because these water mains last a long time we have never had to replace a significant amount of pipe on a large scale. We are on the edge of the period when these main are reaching their useful life and future generations will need to undertake large scale replacement efforts to ensure that we continue to benefit from our access to clean water.

It is important that instead of entering this period in with a careless plan that only address the system as it fails, we undertake a prioritized renewal of the mains to ensure that our water infrastructure can reliably and cost-effectively support the public health, safety, and economic vitality of our community.

Kentucky American believes that with the replacement of cast iron and galvanized steel main through a 25 year replacement period is important to ensure the company can responsibly enter into the period of water infrastructure renewal. Through careful prioritization and looking at emerging technology the cost of replacing main just prior to failure will be of significant benefit to the community. Through the reduction of the number of failures the system experience we can reduce the negative of property damage, disruption of businesses and the community, and waste our water resources and ensure our future generations continue to benefit from access to reliable clean water that will support the economic growth of the community.

Resources

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APPENDIX –

Five Year Projected Projects for Main Replacement Program

PROJECTED YEAR ONE PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
1	600 BLOCK SAYRE AVE	212	\$31,800
2	900 BLOCK WHITNEY AVE	1,030	\$154,500
3	200 BLOCK PERRY ST	466	\$69,900
4	1000 BLOCK KASTLE RD	512	\$76,800
5	1200 BLOCK EMBRY AVE	536	\$80,400
6	200 BLOCK SPRUCE ST	624	\$93,600
7	200 BLOCK HAMILTON PARK	978	\$146,700
8	300 BLOCK GUNN ST	184	\$27,600
9	100 BLOCK SHAWNEE PL	568	\$85,200
10	200 BLOCK WARNOCK ST	492	\$73,800
11	600 BLOCK ORCHARD AVE	380	\$57,000
12	100 BLOCK AVON AVE	1,340	\$201,000
	100 BLOCK BURNETT AVE		
13	1400 BLOCK CAMDEN AVE	1,082	\$162,300
14	100 BLOCK WABASH DR	3,160	\$474,000
	1800 BLOCK PENSACOLA DR		
	200 BLOCK LACKAWANNA RD		
	180 WABASH DR		
	140 WABASH DR		
16	200 AND 300 BLOCK LINCOLN AVE	3,928	\$589,200
17	200 TO 400 BLOCKS OF PRESTON AVE	2,452	\$367,800
18	300 BLOCK RICHMOND AVE	814	\$122,100
	200 BLOCK WHITE AVE		
19	300 BLOCK PENNSYLVANIA CT	1,422	\$213,300
20	300 BLOCK STRATHMORE RD	1,436	\$215,400
21	100 BLOCK GARRETT AVE	968	\$145,200
22	200 BLOCK GARRETT AVE	1,508	\$226,200
23	300 BLOCK N PICADOME PARK	1,648	\$247,200
24	600 BLOCK COOPER DR	218	\$32,700
25	1300 BLOCK WILLOWLAWN AVE	438	\$65,700
26	400 BLOCK UHLAN CT	768	\$115,200
27	100 DELMONT DR	1,052	\$157,800
28	200 BLOCK E VISTA ST	1,260	\$189,000
29	200 BLOCK W VISTA ST	1,204	\$180,600
30	100 BLOCK E VISTA ST	1,502	\$225,300
31	400 BLOCK MORRISON AVE	608	\$91,200
32	200 BLOCK LINWOOD DR	948	\$142,200
33	500 BLOCK MCCUBBING DR	2,290	\$343,500
34	1100 BLOCK SPARKS RD	2,358	\$353,700
35	600 BLOCK LAGONDA AVE	1,980	\$297,000
36	700 BLOCK APPLETREE LN	980	\$147,000
37	1600 BLOCK CLAYTON AVE	1,644	\$246,600
ANTICIPATED YEAR TOTAL		42,990	\$6,448,500

PROJECTED YEAR TWO PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
1	1600 BLOCK COURTNEY AVE	1,490	\$223,500
2	EMERY CT	2,058	\$308,700
	1600 BLOCK COURTNEY AVE		
3	600 BLOCK BLUE ASH DR	940	\$141,000
4	200 BLOCK KOSTER DR	1,860	\$279,000
5	200 BLOCK NORWAY ST	1,702	\$255,300
6	100 BLCOK HALLS LANE	1,626	\$243,900
7	LONE OAK DR	3,468	\$520,200
8	2000 BLOCK RAINBOW RD	1,508	\$226,200
	200 BLOCK DERBY DR		
	2000 BLOCK REBEL RD		
9	4800 BLOCK BOONE LN	3,762	\$564,300
10	1100 BLOCK N CLEVELAND RD	5,356	\$803,400
11	5400 BLOCK BRIAR HILL RD	4,280	\$642,000
12	4400 BLCOK HALEY RD	50	\$7,500
13	4600 BLOCK TODDS RD	3,496	\$524,400
14	3500 BLOCK ROLLING HILLS CT	610	\$91,500
15	5000 BLOCK SULPHUR LN	1,462	\$219,300
16	5200 BLOCK WINCHESTER RD	5,423	\$813,450
17	5400 BLOCK WINCHESTER RD	230	\$34,500
18	1900 BLOCK BEACON HILL RD	1,576	\$236,400
19	3100 BLOCK BRECKENWOOD DR	356	\$53,400
20	LAMONT CT	226	\$33,900
21	700 BLOCK LANDSDOWNE CIR	314	\$47,100
22	3500 BLOCK MADDOX LN	2,732	\$409,800
ANTICIPATED YEAR TOTAL		44,525	\$6,678,750

PROJECTED YEAR THREE PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
1	100 BLOCK NEW ZION RD	2,302	\$345,300
2	SAMUEL LN	1,156	\$173,400
3	TILLYBROOK CT	624	\$93,600
4	3200 BLOCK RAVEN CIRCLE	360	\$54,000
5	MALABU CT	1,556	\$233,400
	HUNTER CIRCLE		
	HEATHER CT		
	300 BLOCK BELVOIR DR		
6	200 BLOCK BRADFORD CIR	352	\$52,800
7	SHIRLEE CT	372	\$55,800
8	OLD DOBBIN RD	482	\$72,300
9	DELMONT CT	168	\$25,200
10	1300 BLOCK HIALEIAH CT	1,682	\$252,300
	1300 BLOCK HOT SPRINGS CT		
	1300 BLOCK KEENELAND CT		
11	CROSS KEYS CT	490	\$73,500
12	200 BLOCK LEWIS ST	260	\$39,000
13	THISTLETON CIRCLE	522	\$78,300
14	EDINBURGH CT	258	\$38,700
15	CROYDEN CT	942	\$141,300
	SHEFFIELD CT		
16	100 BLOCK GENTRY RD	176	\$26,400
17	100 BLOCK N CLEVELAND RD	238	\$35,700
18	7300 BLOCK OLD RICHMOND RD	646	\$96,900
19	WILLIAMSBURG CT	368	\$55,200
20	WOODSIDE CIRCLE	304	\$45,600
21	600 BLOCK TATESWOOD DR	340	\$51,000
22	RANGE CT	672	\$100,800
23	GREENLAWN CT	1,438	\$215,700
	JADE CIRCLE		
	KIMBERLITE CT		
	GRANITE CIRCLE		
24	DURHAM CT	504	\$75,600
25	100 BLOCK COLLEGE ST	1,098	\$164,700
26	GAYLE CIRCLE	388	\$58,200
27	SAYBROOK CT	282	\$42,300
28	WAYCROSSE CIRCLE	676	\$101,400
	SHILOH CT		
29	KELSEY CT	1,694	\$254,100
	KELSEY PL		
	YARMOUTH CT		
	1100 BLOCK KILRUSH DR		
30	CRICKLEWOOD CT	340	\$51,000
31	1100 BLOCK APPIAN CROSSING WAY	978	\$146,700
32	600 BLOCK CARDIGAN CT	1,416	\$212,400
	3500 BLOCK BERWIN CT		
	3400 BLOCK IPSWICH CT		
33	3400 BLOCK FLINTRIDGE CIRCLE	426	\$63,900
34	500 BLOCK FOLKSTONE DR	302	\$45,300
35	1100 BLOCK GREENTREE CT	1,252	\$187,800
	GREENTREE PL		
	GREENTREE CIRCLE		

PROJECTED YEAR THREE PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
36	KING ARTHUR CT	1,272	\$190,800
	3400 BLOCK KING ARTHUR DR		
37	PADDOCK CT	436	\$65,400
38	TANNER CT	438	\$65,700
39	PENWAY CT	438	\$65,700
40	400 BLOCK PLAINVIEW RD	248	\$37,200
41	100 BLOCK TORONTO DR	1,286	\$192,900
	4000 BLOCK VICTORIA WAY		
	4000 BLOCK VICTORIA WAY		
	200 BLOCK TORONTO RD		
42	2600 BLOCK WINBROOKE LN	408	\$61,200
43	2800 BLOCK MIDDLESEX CT	778	\$116,700
44	700 BLOCK HILL RISE CT	542	\$81,300
45	1500 BLOCK HALSTED CT	2,420	\$363,000
	KILDARE CT		
	KIRK CT		
46	800 BLOCK GENTRY LN	1,236	\$185,400
47	200 BLOCK MULBERRY RD	1,148	\$172,200
	OSAGE CT		
	2500 BLOCK BUTTERNUT HILL CT		
48	BLACKARROW CT	730	\$109,500
49	BARBADOS LN	2,508	\$376,200
	3100 BLOCK TABAGO CT		
	2700 BLOCK MARTINIQUE LN		
50	1800 BLOCK COLCHESTER DR	2,484	\$372,600
	FELTNER CT		
	1800 BLOCK BOWEN CT		
	1800 BLOCK BARKSDALE DR		
	1800 BLOCK COLCHESTER DR		
51	HAVELOCK CIR	1,614	\$242,100
	600 BLOCK SAGINAW CT		
	3400 BLOCK ALDERSHOT DR		
52	KILKENNY CT	932	\$139,800
ANTICIPATED YEAR TOTAL		43,982	\$6,597,300

PROJECTED YEAR FOUR PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
1	3100 BLOCK OLD CROW CT	1,916	\$287,400
	3100 BLOCK CLAIR RD		
	MONTAVESTA CT		
2	2000 BLOCK CUMMINS CT	758	\$113,700
	2000 BLOCK DANIEL CT		
3	400 BLOCK CURRY AVE	468	\$70,200
4	4000 BLOCK LILYDALE CT	1,634	\$245,100
	4000 BLOCK WHITEMARK CT		
5	3500 BLOCK ORMOND CIR	636	\$95,400
6	1900 BLOCK RITTENHOUSE CT	328	\$49,200
7	2400 BLOCK PLUMTREE CT	1,236	\$185,400
	2400 BLOCK THORNBERRY CT		
8	1200 BLOCK MAYWOOD PARK	2,744	\$411,600
	1200 BLOCK OAKLAWN PARK		
	1200 BLOCK TANFORAN DR		
	1200 BLOCK NARRAGANSETT PARK		
	LATONIA PARK		
3200 BLOCK WATERFORD PARK			
9	200 BLOCK KELLY CT	1,352	\$202,800
10	600 BLOCK FOGO CT	2,020	\$303,000
	600 BLOCK CREWE CT		
	3400 BLOCK FRASERDALE CT		
	3400 BLOCK BIRKENHEAD CIR		
11	LOOKOUT CIR	866	\$129,900
	2900 BLOCK MONTAVESTA RD		
12	WEM CT	562	\$84,300
13	4100 BLOCK WINNIPE CT	630	\$94,500
14	400 BLOCK WOODLAKE WAY	250	\$37,500
15	3200 BLOCK WOOD VALLEY CT	256	\$38,400
16	3500 BLOCK SUTHERLAND DR	1,020	\$153,000
17	3500 BLOCK NIAGRA DR	688	\$103,200
18	3300 BLOCK MOUNDVIEW CT	434	\$65,100
19	LISA CIR	912	\$136,800
	MONA CT		
20	MARGO CT	1,846	\$276,900
	KAREN CT		
21	VERSIE CT	1,270	\$190,500
	JANNELLE CT		
22	200 BLOCK HEDGEWOOD CT	512	\$76,800
23	TAMMY CT	2,726	\$408,900
	LAVERNE CT		
	GREVEY CT		
	HARRIS CT		
24	GRANT CT	1,034	\$155,100
	HOLLOW CREEK CT		
	GRANT PL		
25	GRAIG CT	626	\$93,900
26	LYNNWOOD CT	1,746	\$261,900
	WOODSTON CT		
	CLEARWOOD CT		
27	3600 BLOCK CAYMAN LN	1,574	\$236,100
	JAMAICA CT		

PROJECTED YEAR FOUR PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
28	WATERS EDGE PL	1,580	\$237,000
	2000 BLOCK HARMONY CT		
	2100 BLOCK BRIDGEPORT DR		
29	1600 BLOCK COSTIGAN DR	3,536	\$530,400
	1900 BLOCK LEITNER CT		
	1900 BLOCK BEDINGER CT		
	1900 BLOCK COBYVILLE CT		
	900 BLOCK VALLEY FARM DR		
	1900 BLOCK CHRIS DR		
30	3400 BLOCK BELLMEADE RD	884	\$132,600
	3400 BLOCK WARWICK CT		
31	1300 BLOCK OX HILL DR	758	\$113,700
	BASS CT		
32	1200 BLOCK ASCOT PARK	1,594	\$239,100
	1200 BLOCK BEULAH PARK		
	1300 BLOCK ATOKAD PARK		
	1300 BLOCK GOLDEN GATE PARK		
	1200 BLOCK AK-SAR-BEN PARK		
33	BRANDON CT	418	\$62,700
34	SWOONALONG CT	2,350	\$352,500
	PERSONALITY CT		
	1300 BLOCK CANONERO DR		
	GUNBOW CT		
	PERSONALITY CT		
35	3500 BLOCK GINGERTREE CIR	484	\$72,600
36	KENIL CT	138	\$20,700
37	2000 BLOCK VON LIST WAY	2,156	\$323,400
ANTICIPATED YEAR TOTAL		43,942	\$6,591,300

PROJECTED YEAR FIVE PROJECTS FOR MAIN REPLACEMENT PROGRAM			
PROJECT NUMBER	PROJECT LOCATION	AMOUNT OF MAIN TO BE REPLACED (FEET)	ANTICIPATED COST
1	TREPASSEY CT	808	\$121,200
2	100 BLOCK WESTGATE DR	2,022	\$303,300
3	100 BLOCK MOORE DR	170	\$25,500
4	3300 BLOCK PITTMAN CREEK CT	634	\$95,100
5	4700 BLOCK HUFFMAN MILL PIKE	56	\$8,400
6	300 BLOCK ROBERTSON ST	3,476	\$521,400
	1100 BLOCK MARTIN AVE		
	300 BLOCK FERGUSON ST		
	300 BLOCK ANDERSON ST		
	300 BLOCK ROBERTSON ST		
7	3200 BLOCK BRACKTOWN RD	1,946	\$291,900
8	400 BLOCK BRADLEY CT	1,602	\$240,300
9	100 BLOCK CASTLEWOOD DR	1,152	\$172,800
10	800 BLOCK CAMPBELL LN	1,184	\$177,600
11	600 BLOCK CENTRAL AVE	362	\$54,300
12	100 BLOCK CHELAN CT	700	\$105,000
13	700 BLOCK E EUCLID AVE	378	\$56,700
14	200 BLOCK E MAIN ST	478	\$71,700
15	200 BLOCK SOUTHPORT DR	2,672	\$400,800
16	TIMBERHILL CT	858	\$128,700
	ELDERBERRY CT		
17	HEATON CT	1,042	\$156,300
	2400 BLOCK MIRAHILL DR		
	2400 BLOCK WINDWOOD CT		
18	1400 BLOCK ELIZABETH ST	2,352	\$352,800
	100 BLOCK FOREST PARK RD		
19	200 BLOCK WESTWOOD CT	1,364	\$204,600
20	100 BLOCK WESTWOOD DR	1,640	\$246,000
21	1100 BLOCK FERN AVE	1,896	\$284,400
22	1000 BLOCK FLOYD DR	232	\$34,800
23	400 BLOCK GREENWOOD AVE	1,280	\$192,000
24	800 BLOCK JOHNSDALE DR	552	\$82,800
25	3200 BLOCK HALEY RD	1,616	\$242,400
26	500 BLOCK LONGVIEW DR	94	\$14,100
27	400 BLOCK MACADAM DR	2,604	\$390,600
	600 BLOCK ROSEMILL DR		
28	3400 BLOCK MCFARLAND LN	3,650	\$547,500
29	500 BLOCK MCKINLEY ST	308	\$46,200
30	500 BLOCK MERINO ST	542	\$81,300
31	300 BLOCK MEMORY LN	396	\$59,400
32	600 BLOCK MONTGOMERY AVE	226	\$33,900
33	700 BLOCK NATIONAL AVE	1,242	\$186,300
	900 BLOCK NATIONAL AVE		
34	1100 BLOCK OAK HILL DR	470	\$70,500
35	300 BLOCK OLD VINE ST	162	\$24,300
36	2100 BLOCK PAIGE CT	358	\$53,700
37	400 BLOCK PARK AVE	634	\$95,100
38	500 BLOCK PINE ST	382	\$57,300
39	200 BLOCK RIDGEWAY RD	556	\$83,400
40	1400 BLOCK RUSSELL CAVE RD	210	\$31,500
ANTICIPATED YEAR TOTAL		42,306	\$6,345,900

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 64.** Was Exhibit 11 to the Application filed herein prepared explicitly for its purpose of the rate Case 2018-20358? If not, please attach a copy of the document titled "Proposed Construction Expenditures" for each year from 2008-2019.

Response:

Exhibit 11 to the application as it refers to Case No. 2018-00358 was created for the purpose of supporting the case. Prior Exhibit 11s were filed with each of the Company's rate cases during this time period.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 65.** Was Exhibit 1 to Brent O'Neill's testimony in Case No. 2018-00358 prepared explicitly for the purpose of this rate case? If not, please attach a copy of the document Strategic Capital Expenditure Plan for each year from 2008-2019.

Response:

Exhibit 1 of Brent O'Neill's testimony in Case No. 2018-358 was prepared for the application of this rate case. Exhibit 1 is the first three years from the 5-year Strategic Capital Expenditure Plan as provided in response to Commission Staff's First Request for Information Number 13.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 66.** Please provide any description or detail of the Strategic Capital Expenditure Plan that is not already included in O'Neill Exhibit 1 attached to his testimony in 2018-00358.

Response:

Exhibit 1 of Brent O'Neill's testimony in Case No. 2018-00358 is the Strategic Capital Expenditure Plan for KAWC for the years 2018 to 2020.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill and Melissa Schwarzell

67. Please reference Exhibit 13 to the company's application in Case 2015-00418. Please provide a copy of that exhibit for each year that it was prepared from 2008-2019.

Response:

Exhibit 13 of the Company's application in Case 2015-00418 was prepared in support of the application in the rate case so a version of it does not exist for every year requested. For versions that do exist, see Exhibit 13 in each of the Company's rate cases.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 68.** Please refer to: (1) the “proposed Accelerated Replacement Plan” (PARP) presented to the Commission in Exhibit 1 to the testimony of Brent E. McNeil in Case No. 2015-00418; the PARP attached to the testimony of Brent E. McNeil in Case No. 2017-00313; and (2) Exhibit 2 to the testimony of Brent E. McNeil in Case No. 2018-00358.
- (a) Why did the Company file an identical report of the PARP in 2018 without updating any part of the plan submitted in 2017? Why did the Company not re-do the map in its GIS which was originally run in 2015.
 - (b) Why did the cast iron and galvanized steel percentage of pipes increase between the 2015 and 2017 reports from 13% to 16.1%
 - (c) Please indicate how the changes in Table 7 from 2015 to 2017 were calculated and determined.

Response:

- a. KAWC did not implement the acceleration of water main replacement since it was associated with the request to implement a Qualified Infrastructure Program (QIP). Without the implementation of the QIP, KAWC continued to make investment in main replacements at a rate of 4.2 miles in 2016 and 5.3 miles in 2017, however the majority of the work was associated with mains that was included in the plan submitted in 2017. As such, KAWC believed it was appropriate to resubmit the plan in 2018 since it remained essentially unchanged.

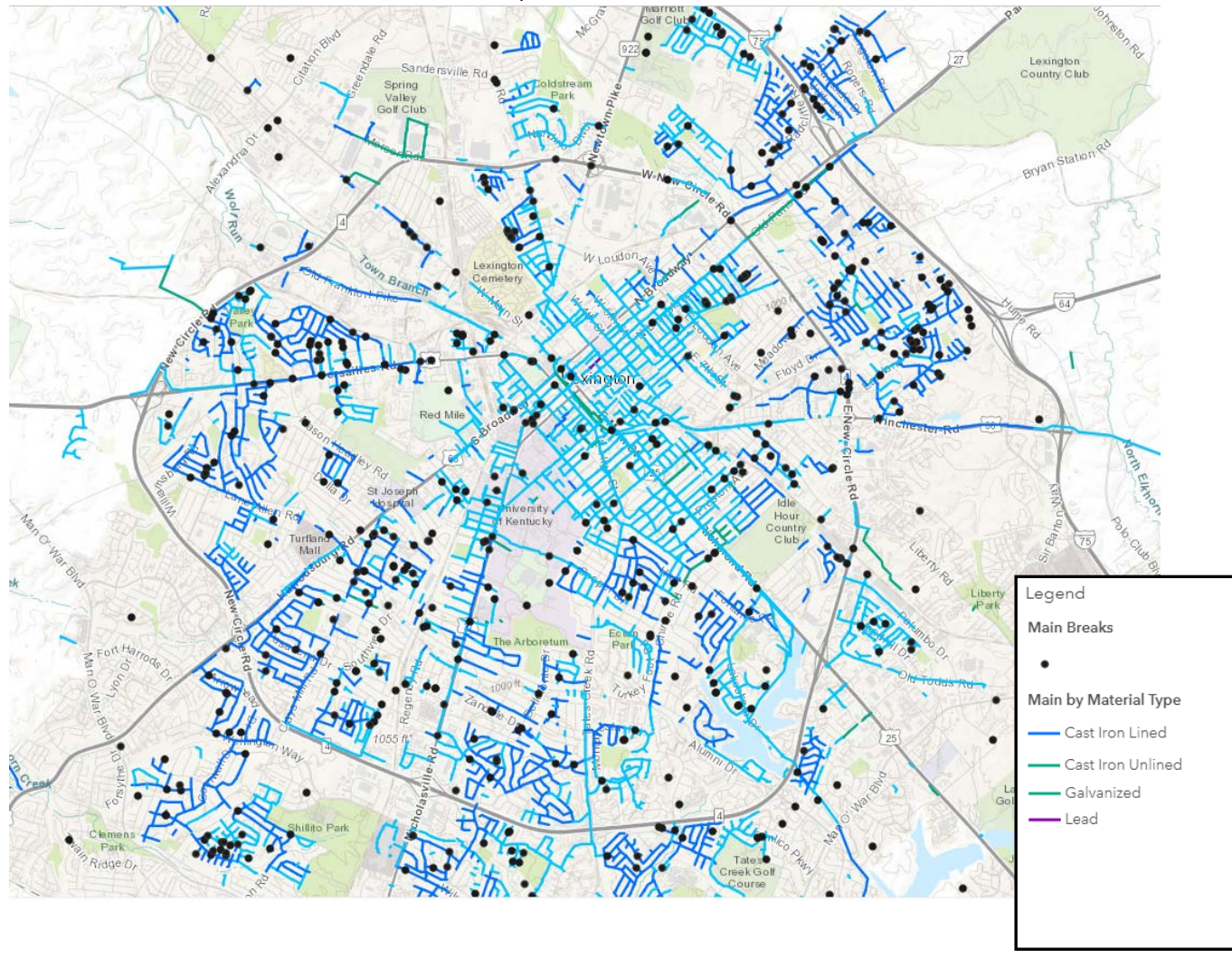
With respect to the utilization of the same main, break map between the 2015 report and the 2018 report, the correlation between main breaks and the areas of predominantly cast and galvanized steel mains remains the same. Please find the attached updated map that shows main breaks between 2012 to 2018 that again shows that the correlation of the main breaks within the areas that are predominately cast iron and galvanized steel is consistence and that additional main breaks within these areas have occurred.

- b. KAWC continuously reviews the attributes that are associated with the water mains located with the system. The increase in the percentage of main is due to the determinations that certain mains within the data used in 2015 had been misclassified along with the addition of 3.9 miles of cast

iron main from the Millersburg system to obtain 320 miles of identified cast iron main in 2017. In 2018, the miles of mains identified decreased by 10 miles to account for the investment that KAWC had made in retiring cast iron main in the system.

- c. The change in Table 7 between the 2015 to 2017 is the recalculation of mains replaced for each period due to the increase of recognized cast iron main increasing from 240 miles to 320 miles. In addition, the change in Table 7 also takes into consideration the change in the average cost per foot to replace main from \$130 in 2015 to \$159 in 2017. The cost range indicated in Table 7 realizes that the upper cost per foot of replacing main may be 20% higher in some highly urbanized areas that require extensive pavement restoration.

Main Breaks January 2012 to December 2018



**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Brent E. O'Neill

- 69.** Please refer to Exhibit 1 to the testimony of Brent E. O'Neill, and also Exhibit 11 to the Application filed herein:
- (a) With respect to Items H and I, please separately provide the number of meters to be replaced in Item H and in Item I; the cost of the individual meters; a description of the technology involved; the age of the meters replaced; whether or not a CPCN has been filed; and if not, why not.
 - (b) With respect to Item O, please provide the number of vehicles to be purchased; the year, make and model of each; and the cost of each.
 - (c) With respect to Item Q, please describe the total cost, a description of the process plant, the nature of the costs and whether the Company sought a CPCN and if not, why not.
 - (d) Please describe what "ITS – Equipment – Centrally Sponsored" consists of. Please detail the nature of the costs and whether the Company sought a CPCN and if not, why not.
 - (e) With respect to project #112-020037, please state whether the project was bid.
 - (f) If so, please attach specifications.
 - (g) If not, why not?
 - (h) Please state whether a CPCN was sought.
 - (i) Why was this project required?
 - (j) With respect to project #112-020067, please state whether the project was bid.
 - (k) If so, please attach specifications.
 - (l) If not, why not?
 - (m) Please state whether a CPCN was sought.
 - (n) Why was this project required?
 - (o) Please state whether any projects resulted from EPA regulations. If yes, please state the project(s) and with specificity the regulations that required the project(s).
 - (p) On Exhibit 1 to Brent O'Neill's testimony in A-5, the estimated in-service date for all in that list is 12/31/16.
 - i. Why are the in-service dates identical?
 - ii. These are not actual in-service dates, please state the actual dates.

Response:

- a. Item H is the recurring budget line that is for Service and Laterals Replaced. KAWC budgeted for the replacement of 260 Services for the years 2019, 2020 and 2021 with an expected average cost per each of \$2,048.

Item I is the recurring budget line for Meters - New. KAWC budgeted for the installation of 1,032 new meters in 2019, 1,065 meters in 2020, and 1,097 meters in 2020 expected average cost per each of \$775. The new installed meters utilize Automatic Meter Reading (AMR) Technology that allows the meter to automatically collect consumption, diagnostic and status data from the meter and transmit it for collection. Item I is considered for new meters being installed at new locations, so there is no age of meters being replaced.

Both of these lines are a part of the recurring projects lines that represents work that the company carries out annually that is part of normal business activity of providing service to our customers. A CPCN is not appropriate for these lines since this type of work has been carried out on an annual basis since the inception of the company. Also see the response to PSC 2-5.

- b. Item O is replacement of vehicles, KAWC anticipates on replacing 10 vehicles in 2019, 10 vehicles in 2020, and 8 vehicles in 2021. Please see the attachment for additional information.
- c. Item Q is for is for the replacement of existing components of water supply, treatment, pumping, storage, and pressure regulation facilities, including associated building components and equipment. Replacements may be planned or made because of failure. The line may also include new purchase associated with improvements to the treatment facilities. This line is made up of numerous projects that range in cost from \$10,000 for such things as replace air burst valve in KRS2 to \$275,000 to replace KRS1 intake motor or pump. 68 projects have been identified as potentially occurring over the course of 2019 to 2021 with an expected total budgeted investment of \$1,925,000 in 2019, \$2,100,000 in 2020 and \$1,750,000 to address planned replacements and respond to failures at the three treatment facilities. A CPCN is not appropriate for this line since this type of work is carried out on an annual basis that is part of normal business activity of providing service to our customers and maintain its facilities. Also see the response to PSC 2-5.
- d. These investments are recurring T&I investments consisting of hardware, software, and related T&I appurtenances that provide the core T&I systems infrastructure across all of American Water for use by all American Water regulated subsidiaries including Kentucky-American. The T&I investments include upgrades and enhancements to our foundational technology, as well as new technology that integrates with existing systems that the Company can leverage to support its field operations and enhance its service to customers and its customer service applications and systems. Some examples include improvements to our time management system, enhancing our GIS platform and upgrading customer service infrastructure to improve interactions with customers and make customer information more easily accessible in the field to better serve our customers. A CPCN is not appropriate for these projects since they are hardware, software, and related T&I appurtenances.

- e. Yes, I12-020037 KRS1 Chemical Storage and Feed Improvements and I12-020067 RRS Chemical Facilities Upgrade were bid out for both design services and for construction services as a package due to their similarities and to ensure consistencies in the facilities.
- f. Please see attached for the RFP for Design Services, RFP for Construction Services and Design Memorandum that was attached to the RFP for Construction Services.
- g. N/A
- h. A CPCN was not sought for I12-020037 since the project was a replacement of the existing chemical process and not a change in the way that the company treated the water at the facility and was considered a part of normal business for the Company. Also see the response to PSC 2-5.
- i. Please refer to pages 19 and 20 of O'Neill's Testimony.
- j. Yes, I12-020067 RRS Chemical Facilities Upgrade and I12-020037 KRS1 Chemical Storage and Feed Improvements were bid out for both design services and for construction services as a package due to their similarities and to ensure consistencies in the facilities.
- k. Please see attached in response to item f.
- l. N/A
- m. A CPCN was not sought for I12-020067 since the project was a replacement of the existing chemical process and not a change in the way that the company treated the water at the facility and was considered a part of normal business for the Company. Also see the response to PSC 2-5.
- n. Please refer to pages 19 and 20 of O'Neill's Testimony.
- o. In respect to the projects presented in Exhibit 1 of O'Neill's Testimony, there are no projects that resulted from an EPA regulation. Projects such as I12-020037 KRS1 Chemical Storage and Feed Improvements, I12-020067 RRS Chemical Facilities Upgrade, I12-020069 KRS1 Valve House #4 Rehabilitation, I12-200071 KRS1 Valve House Rehabilitation (Phase 5) and I12-020035 KRS1 – Residual Improvements will allow the company to continue to comply with the Stage 2 Disinfectants and Disinfection Byproducts Rule, the Long Term Enhanced Surface Water Treatment Rules, and the Long Term 2 Enhanced Surface Water Treatment Rules.

- p. With respect to the 2018-2020 Strategic Capital Expenditure Plan provided as Exhibit 1 to O'Neill's Testimony:
- i. Lines A through S represent Recurring Projects that represents the work that the company carries out annually that is part of normal business activity of providing service to our customers. There are numerous projects that occur under each one of the items and the estimated In-Service date of 12/31/2016 was in error and should have been indicated as various as the Projects Funded by Others located on the same exhibit. It is expected that a majority of the work performed under each of these lines are short duration projects and will be completed and placed in service sometime during the year that the project commences.
 - ii. There are numerous projects and activities that are associated with each of the Lines A through S. It is expected that a majority of the work performed under each of these lines are short duration projects and will be completed and placed in service sometime during the year that the project commences.

69. Please refer to Exhibit 1 to the testimony of Brent E. O'Neill and also Exhibit 11 to the Appli
 (b) With respect to Item O, please provide the number of vehicles to be purchased;
 model of each and the cost of each

Year	Plan Amount
2019	\$ 680,000
2020	\$ 650,000
2021	\$ 660,000

Year	Make	Model
2019	Chevrolet	Silverado 3500HD 4x4 Utility Truck Maintenance
2019	Chevrolet	Silverado 2500HD 4x4 Medium Utility Truck
2019	Chevrolet	Silverado 2500HD 4x4 Medium Utility Truck
2019	RAM	Promaster 1500
2019	RAM	Promaster 1500
2019	Chevrolet	Colorado
2019	TBD	Pickup
2019	TBD	Utility Truck - Field Services
2019	TBD	Utility Truck - Field Services
2019	TBD	SUV - Field Services
		Total

Year	Make	Model
2020	TBD	Pickup
2020	TBD	Pickup
2020	TBD	Pickup
2020	TBD	Pickup
2020	TBD	SUV
2020	TBD	SUV
2020	TBD	Medium Truck
2020	TBD	Medium Truck
2020	TBD	Utility Truck - Field Services
2020	TBD	Utility Truck - Field Services
		Total

Year	Make	Model
2021	TBD	Pickup
2021	TBD	Pickup
2021	TBD	Pickup

2021	TBD	Medium Truck
2021	TBD	Medium Truck
2021	TBD	Utility Truck - Field Services
2021	TBD	Utility Truck - Field Services
2021	TBD	Utility Truck - Field Services
		Total

*Estimated Cost also includes all upfitting charges per unit

ation filed herin:
the year, make and

Estimated Cost * Including Upfitting	
\$	92,000
\$	64,000
\$	60,000
\$	39,500
\$	39,500
\$	35,000
\$	45,000
\$	130,000
\$	130,000
\$	45,000
\$	680,000

Estimated Cost * Including Upfitting	
\$	45,000
\$	45,000
\$	45,000
\$	45,000
\$	40,000
\$	40,000
\$	60,000
\$	60,000
\$	135,000
\$	135,000
\$	650,000

Estimated Cost * Including Upfitting	
\$	40,000
\$	40,000
\$	40,000

\$	60,000
\$	60,000
\$	140,000
\$	140,000
\$	140,000
\$	660,000



KENTUCKY
AMERICAN WATER

**Richmond Road Station and Kentucky River
Station I Chemical Complexes**

Lexington, KY

REQUEST FOR PROPOSAL

March 2017

KENTUCKY AMERICAN WATER COMPANY
Engineering
2300 Richmond Road
Lexington, Kentucky 40502

Richmond Road Station and Kentucky River Station I Chemical Complexes

1. PROJECT BACKGROUND

Kentucky American Water (KAW) serve a population of approximately 500,000 within the central portion of Kentucky. KAW is interested in improving and replacing various chemical systems within two of its water treatment plants to improve operations and safety at the two facilities.

The Kentucky River Station I plant is rated to treat 40 million gallons of water per day and Richmond Road Station is rated to treat 25 million gallons per day. KRS1 was built in the late 1950's and most of the plant's infrastructure is approaching 60 years old. The Richmond Road Station has facilities varying in age with some components over 90 years old. The newly constructed chemical complex at KRS1 shall store and supply: chlorine, ferric chloride, ammonia and sodium permanganate. The chemical complex at Richmond Road shall store and supply: carbon, chlorine, ammonia and caustic.

2. PROJECT Summary

Kentucky American Water (KAW) is requesting proposals from preselected firms for Engineering Services to provide a chemical building at RRS and KRS1:

- Specification development,
- Surveying
- permitting,
- geotechnical services
- construction cost estimates
- construction schedule

The consultant shall review chemical addition locations in the process. Within the buildings, each chemical shall have its own containment area with storage tank(s), feed pumps, and associated piping, valves, and instrumentation and controls. Site utilities and building locations shall be planned in a manner for an additional chemical building construction or expansion to occur.

If the consultants wish to examine any documents not already provided as an exhibit to this RFP, the consultant is permitted to request visit to RRS and KRS1 and to make copies of pertinent related engineering record drawings.

3. PROJECT OBJECTIVE

The objective of the project will be to design and construct a chemical storage and feed facility for RRS and KRS to serve the present and future needs of those facilities. The design shall consider recommendations from American Water's Corporate Engineering team but shall also provide a design based upon their own expertise and sound engineering principles.

4. SCOPE OF WORK

Your itemized lump sum (not to exceed) fee for each component including unit prices for each task for this study shall include the services described herein. Project coordination and review will be managed by Adam Tilley of KAW, your primary contact throughout the study. Any changes in the scope of services must be addressed by the Consultant before the work is performed in the form of a Task Order in accordance with Article II of the "Agreement for Engineering Services". The following items shall be considered as part of the scope:

Phase I (Kick-Off Meeting and Scoping Meeting)

Kick-off Meeting

- A meeting will be held to address and create the project scope, schedule and objectives. Communication, points of contact and reporting protocols.

Review existing information relevant to the project area including:

- Present Chemical Feed Systems and Storage
- Site Layout of both KRS1 and RRS
- The consultant shall become familiar with the plant infrastructure, including underground conflicts.
- Become familiar with the onsite condition in order to design safe and efficient delivery of the chemicals for the new chemical building at both RRS and KRS1.
- Feed Rates and Delivery Volumes and Frequencies for Each Chemical
- Kentucky American Water shall evaluate chemical addition locations and provide these locations to consultant.
- Kentucky American Water shall provide chemical feed rates to consultant.
- The consultant shall become familiar with American Water chemical standards and apply them to the future design.
- The chosen consultant shall be provided design plans for projects occurring at KRS1 and RRS to minimize conflicts.

Phase Objective

- The chosen consultant and Kentucky American Water will engage in a meeting to create and refine the project scope to determine the process and technology to allow the company to achieve its goals of efficient and safe chemical storage and application.

Phase II (Preliminary Design and Site Utility Establishment)

- The consultant shall establish the baseline survey to which the project building locations and all geometrics will be referenced.
- Consultant shall utilize existing and established benchmarks.
- Locate critical existing utilities.

- Field locating and identifying topographic details within an agreed upon boundary for the project site
- Providing services needed to fully describe and detail the planimetric drawings, and
- Performing spot survey checks to verify the accuracy of the topographic mapping.

Permits Coordination

- The Consultant shall identify permits required by public and private entities including but not limited to the City of Lexington e.g., chemical storage, fire), Kentucky EPA (e.g., Permit to Install, stormwater, construction), Army Corps, KDOT, railroads, and Soil and Water Conservation permit applications as applicable to the project. The Consultant is required to assist in preparation, coordination, and timely acquisition of these permits.

Phase Objective – 30% Design Chemical Buildings at RRS and KRS1

- Provide 30% design including structural, geotechnical, mechanical, electrical and chemical engineering services to house and feed (chlorine, ferric chloride, ammonia and sodium permanganate) at KRS1 and (carbon, chlorine, ammonia and caustic) at RRS. 30% Design – The thirty percent design submission will serve as a preliminary layout and orientation to be advanced into further design levels.
- At this stage, the review would confirm major design concepts and decisions in order to move the design forward with advancing detail. 30% design drawings shall include: title sheet, plan and section drawings, preliminary P&ID, flow diagrams, and site plans.
- The consultant shall also provide a budget estimate of -20% to + 20% of the anticipated construction estimate.

Phase III (Proposals to Pre-Selected Contractors for Construction Management at Risk)

- After the 30% meeting, the consultant shall assist in the solicitation of pre-selected firms to respond with the intent of contracting into a construction management at risk contract. The consultant will assist with the selection of the construction management at risk firm.

Phase IV (Consultant Completes Design with CM involved in Design Process)

- 60% Design – The sixty percent design submission will serve as a more detailed presentation of the design configurations and parameters established in the 30% design activities.
- Design services shall include the development of the following: specifications, chemical feed calculations, instrument list, valve schedule, I/O list, Equipment list, Conduit and Cable Schedules, Drawings (Architectural plans, elevations, civil/structural plans with elevations, and indexes and legends), mechanical piping and plans with elevations, mechanical sections, electrical plans with elevations, HVAC Plans and sections, site and grounding plan,

single line diagrams, electrical schematics, MCC layouts and schedules, lighting plans and fixture schedules and fire protection diagrams. PLC enclosure and layout drawings, HMI screen layouts, I/O drawings, Wiring Diagrams, Control Panel Layouts, Conduit Plans, P&ID's to be provided by an integrator that will be chosen by Kentucky American Water. The chosen engineering firm will partner with the integrator and incorporate the design elements chosen by the integrator and add these elements to the drawing sets.

- The consultant shall issue an updated memorandum of design that addresses any differences that may exist between the basis of design report and the 30% design effort and 60% design effort.
- A geotechnical baseline report shall be prepared and shall contain the evaluation of subsurface materials discovered and the conditions which the construction contractor can expect to encounter. The report shall also detail proper construction techniques and requirements necessary to properly construct this project.
- The consultant shall prepare detailed layouts of civil, mechanical, electrical, architectural, and instrument and control drawings.
- The consultant shall hold a 60% Design meeting to allow for review and modifications of the design.

90% Design

- The ninety percent design submission will serve as a pre-final design submission that details all aspects of the Chemical Storage and Feed project. The final constructability review would include reviewing the advanced plans, sections, and details as well as the pre-final specification book
- Quality Assurance/Quality Control Report - The Consultant shall issue along with the 90% Design Review drawing and specification set a QA/QC Report: Addressing any differences that may exist between the Memorandum of Design Report and the 60% design effort and 90% design effort.
- Identify the review staff who executed the QA/QC Report.
- Three copies and an electronic copy shall be transmitted to the Adam Tilley for review.

90% Design Review Meeting

- The Consultant shall participate in a 90% Design Review Meeting to finalize their design as necessary and to receive and review comments regarding the design. The Consultant shall provide a summary of the meeting and meeting minutes that the Consultant shall issue to all participants.

90% Design Review Submittal

- The Consultant shall prepare final detailed layouts of civil, mechanical, electrical, architectural, and instrument and control systems with sections and details. Ten full size copies and one electronic copy of the drawings (PDF Format) shall be transmitted to the Adam Tilley.

- The Consultant shall prepare final detailed specifications for major and minor equipment components and systems. Ten copies and one electronic copy of the specifications (Word Format) shall be transmitted to Adam Tilley.

Final Design

- The final design represents the documents to be used for construction purposes. This includes final drawings, specifications, cost estimates, and project schedules. The following provides more details relative to the final design submission requirements

Final Design Submittal

- The Consultant shall prepare finalized detailed layouts of civil, mechanical, electrical, architectural, and instrument and control systems with sections and details. Ten full size copies and one electronic copy of the drawings (AutoCAD and PDF Format) shall be transmitted to the Kentucky American Water's Project Manager.
- The Consultant shall prepare finalized detailed specifications for major and minor equipment components and systems. Ten copies and one electronic copy of the specifications (Word Format) shall be transmitted to the Kentucky American Water's Project Manager.
- Permitting - Selected firm will be required to gain all necessary permits for Kentucky American Water's selected contractor to begin construction.
- The consultant shall identify permits required by public and private entities including to the City of Lexington, Kentucky EPA, Soil and Water Conservation Permit.

Phase V (Mandatory Pre-Construction Meeting (KRS1))

- Construction Management at Risk Contractor will be required to attend which will be coordinated and administered by selected firm.
- The Consultant shall assist the Kentucky American Water's Project Manager in developing an agenda for the Pre-Construction Meeting.
- The Consultant shall attend and participate in the Pre-Construction Meeting.
- The Consultant shall assist in preparing minutes of the Pre-Construction Meeting.

3. Phase VI Mandatory Pre-Construction Meeting (RRS)

- Construction Management at Risk Contractor will be required to attend which will be coordinated and administered by selected firm. The Consultant shall assist the Kentucky American Water's Project Manager in developing an agenda for the Pre-Construction Meeting.
- The Consultant shall attend and participate in the Pre-Construction Meeting.
- The Consultant shall assist in preparing minutes of the Pre-Construction Meeting.

4.

- Project Closeout Review Contractor's as-built red line drawings for accuracy and completeness. Compile record drawings from reviewed

set in hard copy/electronic format. See Attachment B: Project Data Standards & Requirements for specific requirements.

- Review Contractors'/Vendors' O&M training outlines and materials and recommend changes as needed.
- Provide 4 (four) hard copies System Operations & Maintenance Manuals and associated training for the Kentucky American Water staff. The O&M Manual shall address, but not be limited to, safety aspects during operation, maintenance, and cleaning; suggested sequence of operation; operational strategies of chemical feed and associated control equipment; truck unloading, pump and equipment maintenance and operations. Also, one hard copy and one electronic copy for Record purposes (PDF Format) shall be provided in accordance with Attachment B.
- Assist with the final inspection by design staff and Construction supervisor.

Project Schedule

Design Notice to Proceed – June 1st, 2017

Scoping Meeting – June 20, 2017

Design Complete – February 28, 2018

Bid Opening – April 1, 2018

Construction Notice to Proceed (KRS1) – May 1, 2018

Construction Complete (KRS1) – March 1, 2019

Construction Notice to Proceed (RRS) - April 1, 2019

Construction Complete (RRS) – March 1, 2020

5. INFORMATION TO BE SUBMITTED WITH THE PROPOSAL

The following minimum information must be submitted with your proposal for it to be considered:

1. Specific identification of any sub-consultants that will be utilized for this project. If sub-consultants will be utilized, the resumes of the specific individuals will be required as well as a work experience history of their firms, including three (3) references with specific contacts and phone numbers.
2. Specifics of any exceptions which are taken to items requested within this document. If no exceptions are taken, it is not necessary to reiterate the information in the Scope of Services Required.

6. SUBMITTAL REQUIREMENTS

Reply to this request with four (4) copies of your response. Limit your submittal to twenty (20) 8 1/2" x 11" pages (text on one side only). A cover letter and project member resumes will not be considered as part of the twenty-page limitation. Submittals that exceed the twenty-page limitation will not be considered.

Please address the following:

- | | |
|--------------------------|---|
| Contact Information - | List the name of the firm, address, contact person, and phone number. |
| 1. Firm's Capabilities - | Briefly describe five similar projects, which your firm has completed in the past five years that are similar in scope and magnitude to the proposed project. List the members of each project team and the role played by each member. Please provide references for each project. |
| 2. Project Team - | List the members of the project team and the role played by each member. Please provide resumes of experience for each member. |
| 3. Project Schedule - | Provide a graphic project schedule that identifies significant issues/tasks, relationships between tasks and time frames required to address the completion of the project. |
| 4. Fee Schedule- | Provide a fee schedule for the unit prices and tasks mentioned above for each phase. |
| 5. Scope Understanding - | Provide a written explanation of their understanding of the scope of work. |
| 6. Project Innovation | Provide potential innovations in technology, chemical storage, chemical application through on-site or bulk that will allow KAW to reach its goal of effective, efficient and safe use of chemicals at its treatment plants. |

7. EVALUATION CRITERIA

KAW is looking to engage a Firm skilled and experienced in surveying. The following criteria will be used to evaluate and rank responding firms.

- Project Team (0-30 points)
- Scope Understanding (0-30 points)
- Fee Proposal (0-20 points)
- Project Schedule (0-10 points)
- Firm's Capabilities (0-5 points)
- Project Innovation (0 to 5 points)

8. SELECTION PROCESS

Selection of firms who submit proposals for this engineering services contract will be made through an evaluation process based on the written proposals submitted and the above Evaluation Criteria.

9. ANTICIPATED PROJECT SCHEDULE

It is anticipated that a notice to proceed will be issued in June 1, 2017 and work for this Agreement shall be complete by May 31st, 2020.

10. INDEMNIFICATION & INSURANCE REQUIREMENTS

KAW indemnification and insurance requirements will be included in Kentucky American Water's standard Professional Services Agreement, a copy of which is attached to this RFP. Submission of your Statement of Qualifications shall indicate your firm's ability and agreement to sign the Professional Services Agreement. Questions shall be addressed prior to submittal in writing. For firms submitting proposals, KAW requires a statement in the proposal that the firms have read and understood all the elements laid out in the Professional Services Agreement.

11. Mandatory Pre-Proposal Meeting

A mandatory pre-proposal meeting will occur on April 13 at 2:00 PM at the Kentucky American Water Office located at 2300 Richmond Road Lexington, KY 40502.

12. SUBMITTAL TIME AND PLACE

Responses to this request must be received at Kentucky American Water Company's Engineering Office at 2300 Richmond Road Lexington, Kentucky 40502 no later than 2:00 PM on May 4, 2017. KAW reserves the right to cancel or modify this Request for Proposal at any time.

Address responses to:

Kentucky American Water Company
Attn: Adam Tilley, Project Engineer
2300 Richmond Road
Lexington, Kentucky 40502

11. GENERAL INFORMATION

1. Authorized Contact - Please direct all questions and comments to Adam Tilley, Project Engineer, at:

Phone: 859.335.3416
Fax: 859.335.3393
Email: Adam.Tilley@amwater.com

2. Instructions – KAW shall not be held responsible for any oral instructions. Any changes to this Request for Proposals will be in the form of an addendum, which will be furnished to all registered Request for Proposals holders.

3. Kentucky American Water Rights – KAW reserves the right to reject any oral Statements of Proposals, to waive any informality or irregularity in any Request for

Proposals received, and to be the sole judge of the merits of the respective Statements of Proposals received.

4. Release of Project Information – KAW shall coordinate the release of all public information concerning the project, including selection announcements and contract awards. Firms desiring to release information to the public must receive prior written approval from the Company.

12. ATTACHMENTS

Existing facility maps

RICHMOND ROAD STATION



Legend

Hydrant

DataSourceType

- ▲ Non-GPS
- ▲ GPS
- Water Treatment Plant

Street Valve

- <all other values>

DataSource Type

- Non-GPS
- GPS
- Pump Station
- System Interconnection
- Tank
- PRV

Lateral Service

- <all other values>

SubtypeCode

- Auxiliary
- Combined
- Domestic
- Fire
- Hydrant Laterals
- Irrigation

Main

- <all other values>

SubtypeCode

- Auxiliary
- Distribution
- Plant
- Transmission







KENTUCKY
AMERICAN WATER

**Jacobson Reservoir, Richmond Road Station, and
Kentucky River Station 1 Chemical Improvements Project**

**CONSTRUCTION MANAGER AT RISK
REQUEST FOR PROPOSAL**

March 2018

**KENTUCKY AMERICAN WATER COMPANY
Engineering
2300 Richmond Road
Lexington, Kentucky 40502**

**KENTUCY AMERICAN WATER
JACOBSON RESERVOIR, RICHMOND ROAD STATION, AND
KENTUCKY RIVER STATION 1 CHEMICAL IMPROVEMENTS PROJECT**

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INVITATION TO BID
FOR CONSTRUCTION OF

**KENTUCKY AMERICAN WATER COMPANY
Lexington, Kentucky**

**JACOBSON RESERVOIR, RICHMOND ROAD STATION, AND
KENTUCKY RIVER STATION 1 CHEMICAL IMPROVEMENTS PROJECT**

Sealed Bids for furnishing all plant, labor, equipment, materials and performing all Work to construct the **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project** will be received and opened at the office of **Kentucky American Water Company, Attn: Adam Tilley, PE, 2300 Richmond Road, Lexington KY 40502** at 10:00 a.m., local time, **April 12, 2018**.

One (1) set of Bidding Documents and one (1) electronic copy of Bidding Documents in pdf format on compact disk, including the Instructions to Bidders and Contract Documents, will be provided at no charge to the contractors who are invited to bid the project.

Subcontractors, manufacturers and material suppliers should obtain information and review the Bidding Documents by contacting potential Bidders. Documents will also be available for review at the office of Engineer – 2300 Richmond Road, Lexington, KY 40502.

Owner reserves its rights to waive any informality or deficiency in any Bid, to accept any Bid, to negotiate modifications of any Bid with any Bidder and accept any modified Bid, to reject any Bid, to reject all Bids, and to rebid the Project, all at the Owner's sole discretion.

INSTRUCTIONS TO BIDDERS

ARTICLE 1 – DEFINED TERMS

- 1.01 Terms used in these Instructions to Bidders have the meanings indicated in the General Conditions and Supplementary Conditions, with the following exceptions:
- A. “Bidder” means one who submits a Bid directly to Owner, as distinct from a subbidder, who submits a bid or quote to a Bidder.
 - B. “Successful Bidder” means the responsible Bidder submitting a responsive Bid, to whom Owner (on the basis of Owner’s evaluation as hereinafter provided) makes an award of the Contract.
 - C. “Bidding Documents” includes the Invitation to Bid, Instructions to Bidders, the Bid Form, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

ARTICLE 2 – COPIES OF BIDDING DOCUMENTS

- 2.01 Complete sets of the Bidding Documents in the number and for the amount, if any, stated in the Invitation to Bid may be obtained from the party stated in the Invitation to Bid. No refunds will be made for the return of complete or partial copies of the Bidding Documents.
- 2.02 Complete sets of Bidding Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.03 Owner and Engineer, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

ARTICLE 3 – QUALIFICATIONS OF BIDDERS

- 3.01 Owner will accept Bids only from contractors that are prequalified by Owner, and whom Owner has invited to submit Bids. Each Bid must contain evidence of Bidder’s qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the Contract.
- 3.02 Bidder is advised to carefully review those portions of the Bid Form requiring Bidder’s representations and certifications.

ARTICLE 4 – EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA, AND SITE

- 4.01 *Subsurface and Physical Conditions*
- A. The Supplementary Conditions identify:

1. A Geotechnical Baseline Report on subsurface conditions at the Site;
 2. Other reports of explorations and tests of subsurface conditions at or contiguous to the Site that Engineer has used in preparing the Contract Documents.
 3. Those drawings of physical conditions in or relating to existing surface and subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer has used in preparing the Contract Documents.
- B. During the preliminary and final design phases, Engineer's Consultant will complete a Geotechnical Baseline Report. Contractor shall participate in preparation of the report in accordance with Supplementary Conditions SC-6.00.2. Once report is complete, Contractor will receive two copies for their use in accordance with the General Conditions. Copies of other reports and drawings referenced in Paragraph 4.01.A will be made available by Owner to any Bidder on request, at cost. Those other reports and drawings are not part of the Contract Documents. Bidder's reliance on Owner-furnished items is limited by the terms of Paragraph 4.02.B of the General Conditions.

4.02 *Underground Facilities*

- A. Information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or by others. Bidders shall review the terms of Paragraph 4.04 of the General Conditions with respect to Underground Facilities.

4.03 *Hazardous Environmental Condition*

- A. The Supplementary Conditions identify those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that Engineer has used in preparing the Contract Documents.
- B. Copies of reports and drawings referenced in Paragraph 4.03.A will be made available by Owner to any Bidder on request, at cost. Those reports and drawings are not part of the Contract Documents. Bidders shall review the terms of Paragraph 4.06 of the General Conditions with respect to Hazardous Environmental Conditions.

4.04 **[Reserved.]**

- 4.05 On request, and after receipt from Bidder of evidence of satisfactory insurance coverage, Owner will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations relative to excavation and the advance locating and protection of utilities, and to any other terms and conditions established by Owner.

4.06 Reference is made to the Supplementary Conditions for the identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these

Bidding Documents. On request, Owner will provide to each Bidder for examination access to or copies of Contract Documents (other than portions thereof related to price) for such other work.

4.07 It is the responsibility of each Bidder before submitting a Bid to:

- A. examine and carefully study the Bidding Documents, including but not limited to the Drawings, Specifications, and Geotechnical Baseline Report, and the other related data identified in the Bidding Documents;
- B. visit the Site and become familiar with and satisfy Bidder as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
- C. become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. carefully study all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in Paragraph 4.02 of the General Conditions, and (2) reports and drawings of Hazardous Environmental Conditions at the Site which have been identified in the Supplementary Conditions as provided in Paragraph 4.06 of the General Conditions;
- E. consider the information known to Bidder, information and observations obtained from visits to the Site, information commonly known to contractors doing business in the locality of the Site, the Bidding Documents, and the reports and drawings identified in the Bidding Documents and referred to in Paragraph 4.07.D above with respect to the effect of such information and observations on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- G. become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- H. be prepared to comply with the applicable requirements of Owner's safety or security programs, if any:

have green flag status with Avetta at the time of contract award.
- I. promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder; and

- J. determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work.
- 4.08 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents and the written resolutions thereof by Engineer are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

ARTICLE 5 – PRE-BID CONFERENCE

- 5.01 A mandatory pre-proposal conference will be held at **10:00 AM** local time on **March 22, 2018** at **Kentucky American Water Company** at **2300 Richmond Road, Lexington, KY**. Representatives of Owner and Engineer will be present to discuss the Project. Bidders are required to attend and participate in the conference. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective.

ARTICLE 6 – SITE AND OTHER AREAS

- 6.01 The Site is identified in the Bidding Documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor.

ARTICLE 7 – INTERPRETATIONS AND ADDENDA

- 7.01 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing (including by e-mail). Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 7.02 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner or Engineer.

ARTICLE 8 – BID SECURITY

- 8.01 A Bid must be accompanied by Bid security made payable to Owner in an amount of ten percent of Bidder's maximum Bid price and in the form of a Bid bond (on the form attached) issued by a surety meeting the requirements of Article 5 of the General Conditions.
- 8.02 The Bid security of the Successful Bidder will be retained until such Bidder has executed the Contract Documents, furnished the required Contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within 15 days after the Notice of Award, Owner may consider Bidder to be in default, annul the Notice of Award, and the Bid security of that Bidder will be forfeited. Such forfeiture shall be Owner's exclusive remedy if Bidder defaults. The Bid security of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of fourteen days after the Effective Date of the Agreement or the expiration of the period that Bids are subject to acceptance after the Bid opening, whereupon Bid security furnished by such Bidders will be returned.
- 8.03 Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within fourteen days after the Bid opening.

ARTICLE 9 – CONTRACT TIMES

- 9.01 The number of days within which, or the dates by which, the Work is to be substantially completed and ready for final payment are set forth in the Agreement.

Jacobson Reservoir and Richmond Road Station Chemical Improvements Project: Notice to Proceed for preconstruction and submittals activities is expected to be issued no earlier than **April 30, 2018**, Notice to Proceed for site construction is expected to be issued no earlier than **January 1, 2018** and Substantial Completion is **required** on or before **November 30, 2019**.

Kentucky River Station 1 Chemical Improvements Project: Notice to proceed for submittals and pre-construction activities is expected to be issued as soon as the Jacobson Reservoir and Richmond Road Station Chemical Improvements Project is substantially complete. Substantial completion for the Kentucky River Station 1 Chemical Improvements Project is required 11 months following the Notice to Proceed.

ARTICLE 10 – LIQUIDATED DAMAGES

- 10.01 Provisions for liquidated damages, if any, are set forth in the Agreement.

ARTICLE 11 – SUBSTITUTE AND “OR-EQUAL” ITEMS

- 11.01 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents, or those substitute or “or-equal” materials and equipment approved by Engineer, accepted by Owner, and identified by Addendum (“Alternatives”). The materials and equipment described in the Bidding Documents establish a standard of required type, function and quality to be met by any proposed

substitute or "or-equal" item. No item of material or equipment will be considered by Engineer as an Alternative unless Bidder submits to Engineer a written request for approval (including any supporting documentation) at least 15 days prior to the date for receipt of Bids. The burden of proof of the merit of the proposed Alternative is upon Bidder. Engineer's decision of approval or disapproval of a proposed Alternative will be final as to Bidder. If Engineer approves any proposed Alternative, such approval will be set forth in an Addendum issued to all prospective Bidders. Bidders shall not rely upon approvals made in any other manner. The Owner reserves the right to accept or reject proposed Alternatives. The Bid sum for each proposed Alternative shall include all money required to incorporate the Alternative into the Project. Later requests for additional compensation for Alternatives will not be considered.

ARTICLE 12 – SUBCONTRACTORS, SUPPLIERS AND OTHERS

12.01 If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, individuals, or entities to be submitted to Owner in advance of a specified date prior to the Effective Date of the Agreement, the apparent Successful Bidder, and any other Bidder so requested, shall within five days after Bid opening, submit to Owner a list of all proposed Subcontractors and Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor or Supplier if requested by Owner. If Owner or Engineer, after due investigation, has reasonable objection to any proposed Subcontractor or Supplier Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit a substitute, without an increase in the Bid.

If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors or Suppliers. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner or Engineer makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to revocation of such acceptance after the Effective Date of the Agreement as provided in Paragraph 6.06 of the General Conditions.

12.02 Owner encourages Contractors to seek diverse subcontractors and suppliers (including but not limited to Women Business Enterprises (WBE's), Minority Business Enterprises (MBE's), and Disabled Veteran Business Enterprises (DVBE's)), while at the same time ensuring that the best combination of quality, service and price is provided in accordance with the highest ethical and professional standards. The Owner recognizes the value of subcontractor and supplier diversity as a strategic business decision, and is committed to offer them an equal opportunity to compete for subcontracts to supply materials and services with all other suppliers and contractors in the competitive marketplace.

12.03 Contractor shall not be required to employ any Subcontractor, Supplier, individual or entity against whom Contractor has reasonable objection.

ARTICLE 13 – PREPARATION OF BID

- 13.01 In lieu of a Bid Form, a Proposal shall be submitted by Bidders in accordance with this article. In general, whenever the term Bid Form is used in these contract documents, it shall have the same meaning as Proposal.
- 13.02 Intentionally left open.
- 13.03 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown.
- 13.04 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown.
- 13.05 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown.
- 13.06 A Bid by a joint venture shall be executed by each joint venturer in the manner indicated on the Bid Form. The official address of the joint venture shall be shown.
- 13.07 All names shall be printed in ink below the signatures.
- 13.08 The Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.
- 13.09 Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.
- 13.10 The following minimum information must be submitted with your bid for it to be accepted:
- A. Separate Lump Sum amounts:
 - 1. Pre-Construction Services during Design Phase (60% to Completion)
 - 2. Supervision and Superintendence of Construction
 - 3. Contractor's Fixed Fee
 - B. Evidence of Bidder's authority and qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the Contract. Bidder's state contractor license number, if any, shall also be shown on the Bid Form.
 - C. A construction cost estimate of the Work, which shall be broken down by major work item, organized by Construction Specification Institute (CSI) division and major process components. This estimate will be used by the Owner to evaluate Bidder's understanding of the project, evaluate budget and rate impacts.

- D. A list of construction work which Contractor desires to perform with its own forces either through negotiation or competitive bidding against qualified subcontractors.
- E. For self performed work, the classifications of labor to be employed and associated hourly unit cost inclusive of wages, labor burden, fringe benefits, payroll taxes, insurance, etc. Labor rates shall not include any mark-up for home office overhead and profit.
- F. Material and equipment rental rates to be used on self performed work.
- G. Small tool allowance rate (% of labor) for self performed work.
- H. Provide description of the services and facilities included in the lump sum cost of Supervision and Superintendence of Construction. Provide a Construction Phase organizational chart identifying Contractor's Construction Supervision organization. Indicate those individuals who will be full time on the project and where they will be located (i.e., on-site, office). The organizational chart shall identify the project manager who will act as the Contractor's Representative on the Design team as identified in the Supplementary Conditions Article 6.22. Contractor shall submit the qualifications (experience, history, education, references, etc.) of the Contractor's project manager and site superintendent).
- I. A brief narrative description of the Contractor's understanding of the design documentation provided. Additionally, provide specifics of any constructability or value engineering suggestions which may be proposed by the Contractor. The Contractor is encouraged to submit alternative concepts, however, a bid based on the defined information is mandatory. Should alternative bids be submitted, preliminary sketches of the proposed facilities shall be included along with relative construction cost estimates comparing the alternative designs with that defined in the design memorandum.
- J. A preliminary schedule for construction of the project from date of award in Gantt chart form. The schedule shall identify the critical path and any long lead-time equipment and materials. This schedule shall show how Bidder intends to substantially complete construction work on or before **the dates stated below** with a Notice to Proceed for construction being issued no sooner than **the dates stated below**.

Jacobson Reservoir and Richmond Road Station Chemical Improvements

Project: Notice to Proceed for preconstruction and submittals activities is expected to be issued no earlier than **April 30, 2108**, Notice to Proceed for site construction is expected to be issued no earlier than **January 1, 2019**, and Substantial Completion is required on or before **November 30, 2019**.

Kentucky River Station 1 Chemical Improvements Project: Notice to Proceed for submittals and pre-construction activities is expected to be issued as soon as the Jacobson Reservoir and Richmond Road Station Chemical Improvements Project is substantially complete. Substantial completion for the Kentucky River Station 1 Chemical Improvements Project is required 11 months following the Notice to Proceed.

- K. A critique of the proposed Contract Documents. Specifics of any exceptions which are taken to items requested in this document.
- L. Confirmation that you have read the Proposed Contract Documents included in the Attachments and are prepared to enter into this Agreement should your bid be accepted by the Owner.
- M. The cost of the Bonds identified in paragraph 5.01 of the General Conditions and Supplementary Conditions shall be included in the Bid. The Owner will determine whether Bonds will be required. If the Bonds are requested the cost will add to the Contractor's fee. An adjustment cost factor shall be submitted for any differences between the actual cost and the preliminary cost estimate. The cost of the Bond shall be included in the BID as a separate item.
- N. A history of the Contractor's representative projects.
- O. Confirmation of green flag status with Avetta.

ARTICLE 14 – BASIS OF BID; COMPARISON OF BIDS

14.01 Lump Sum

- A. Bidders shall submit a Bid on a lump sum basis for the base Bid and include a separate price for each alternate described in the Bidding Documents as provided for in the Bid Form. The price for each alternate will be the amount added to or deleted from the base Bid if Owner selects the alternate. In the comparison of Bids, alternates will be applied in the same order as listed in the Bid form.

14.02 Unit Price

- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Bid schedule.
- B. The total of all estimated prices will be the sum of the products of the estimated quantity of each item and the corresponding unit price. The final quantities and Contract Price will be determined in accordance with Paragraph 11.03 of the General Conditions.
- C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

ARTICLE 15 – SUBMITTAL OF BID

- 15.01 With each copy of the Bidding Documents, a Bidder is furnished one separate unbound copy of the Bid Form and the Bid Bond Form. The unbound copy of the Bid Form is to be completed and submitted with the Bid security and the documents required by paragraph 7.01 of the Bid Form.

15.02 A Bid shall be submitted no later than the date and time prescribed and at the place indicated in the Invitation to Bid and shall be enclosed in a plainly marked opaque, sealed envelope or package that shows the Richmond Road Station Filter Building, and the name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on the outside with the notation "BID ENCLOSED."

ARTICLE 16 – MODIFICATION AND WITHDRAWAL OF BID

16.01 A Bid may be modified or withdrawn by an appropriate document duly executed in the same manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids.

16.02 If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned.

ARTICLE 17 – OPENING OF BIDS

17.01 Bids will be opened **privately**.

ARTICLE 18 – BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.01 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 19 – EVALUATION OF BIDS AND AWARD OF CONTRACT

19.01 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive any and all informalities and to negotiate contract terms with the Successful Bidder.

19.02 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.

19.03 In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

- 19.04 In evaluating Bidders, Owner will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Suppliers, and other individuals or entities proposed for those portions of the Work for which the identity of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.
- 19.05 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.
- 19.06 If the Contract is to be awarded, Owner will award the Contract to the Bidder whose Bid is in the best interests of the Project.
- 19.07 Discrepancies in the multiplication of units of Work and Unit Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.
- 19.08 Owner also may consider the operating costs, maintenance requirements, performance data and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.

ARTICLE 20 – CONTRACT SECURITY AND INSURANCE

- 20.01 Article 5 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth Owner's requirements as to performance and payment bonds and insurance. When the Successful Bidder delivers the executed Agreement to Owner, it shall be accompanied by such bonds.

ARTICLE 21 – SIGNING OF AGREEMENT

- 21.01 When Owner gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Agreement with the other Contract Documents which are identified in the Agreement as attached thereto. Within 15 days thereafter, Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to Owner. Within ten days thereafter, Owner shall deliver one fully signed counterpart to Successful Bidder with a complete set of the Drawings with appropriate identification.

ARTICLE 22 – SALES AND USE TAXES

- 22.01 Owner may be exempt from **Kentucky** state sales and use taxes on some materials and equipment to be incorporated in the Work. Said taxes shall not be included in the Bid. Refer to Paragraph SC-6.10 of the Supplementary Conditions for additional information.

ARTICLE 23 – RETAINAGE

- 23.01 Provisions concerning retainage are set forth in the Agreement.

ARTICLE 24 – CONTRACTS TO BE ASSIGNED

24.01 N/A

ARTICLE 25 – PARTNERING

- 25.01 Owner intends to participate in a partnering process with Contractor. The process is intended to help develop better and more effective communication and mutual understanding of common goals. The objectives of the process will be to achieve effective and efficient performance of the Work and completion of the Work within the Contract Price and Contract Times, all in accordance with the Contract Documents.
- 25.02 Participation in the partnering process will be voluntary. To initiate the process, within **25** days after the Notice to Proceed the key personnel of Owner, Engineer, Contractor, and Contractor's major Subcontractors will be invited to attend a half-day seminar and team building workshop to develop a partnering statement. The seminar and the workshop will be scheduled in conjunction with the preliminary design review meeting and conducted by a neutral facilitator at a time and location agreed to by Owner and Contractor in the general vicinity of the Site.
- 25.03 The facilitator will be selected by Owner, subject to approval by Contractor. Costs of the facilitator and facilities for the initial seminar and workshop will be paid by Owner. Thereafter, all facilitator-related and facilities costs will be shared equally by Owner and Contractor with no change in the Contract Price. Each party will pay all costs associated with the participation of its own personnel.
- 25.04 It is intended that the initial seminar and workshop sessions be followed by periodic half-day evaluation sessions approximately every **3 months** as agreed to by Owner and Contractor. These sessions will be scheduled in conjunction with monthly job meetings if possible to minimize expense for attendees.
- 25.05 A primary objective of the partnering process is to maximize the potential for resolution of disputes in a timely and non-adversarial manner. The use of alternative dispute resolution (ADR) methods will be encouraged in order to promote and maintain amicable working relationships among the parties. In the event that ADR procedures are unsuccessful, the dispute resolution provisions set forth in the Contract Documents will be employed.

These provisions express the intent and spirit of the partnering process, and nothing stated herein or in the partnering statement shall change in any way the rights, responsibilities, and obligations of the parties as set forth in the Contract Documents. The partnering statement will not be a part of the Contract Documents and will not modify any defense, claim, obligation, or right that otherwise exists.

AGREEMENT

THIS AGREEMENT is dated as of the ____ day of _____ in the year ____ by and between **Kentucky American Water Company**, (hereinafter called Owner) and **Name** (hereinafter called Contractor). Owner and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 - WORK

1.1 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

**KENTUCKY AMERICAN WATER COMPANY
Jacobson Reservoir, Richmond Road Station, and
Kentucky River Station 1 Chemical Improvements Project**

ARTICLE 2 - ENGINEER

2.1 The Engineer for the Project is **Hazen and Sawyer, 4011 Westchase Boulevard, Suite 500, Raleigh, NC 27607** and who is to act as Owner's representative, assume all duties and responsibilities and have the rights and authority assigned to Engineer in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 3 - CONTRACT TIMES

3.1 The Work for the **Kentucky American Water Company, Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project** will be substantially completed and in service on or before **November 30, 2020**. Completion and ready for final payment for all work within this Agreement in accordance with Paragraph 14.07 of the General Conditions will be on or before **December 30, 2020**.

Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in Paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions.

3.2 Contractor and Owner recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expenses and difficulties involved in providing in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty), Contractor shall pay Owner **One Thousand Dollars (\$1,000.00)** for each day that expires after the time specified in Paragraph 3.1 for substantial completion until the Work is substantially complete. After Substantially Complete if Contractor shall neglect, refuse, or fail to complete the remaining Work with the Contract Times or any proper extension thereof granted by Owner, Contractor shall pay Owner **Five Hundred Dollars (\$500.00)** for each day that expires after the times specified in Paragraph 3.1 for completion and readiness for final payment.

ARTICLE 4 - CONTRACT PRICE

4.1 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents a sum equal to the Cost of the Work plus a Contractor's Fee for overhead and profit, both which shall be determined as provided below.

ARTICLE 5 - COST OF WORK

5.1 Cost of the Work shall be determined as provided in paragraphs 11.01 of the General Conditions, as revised or amended by the Supplementary Conditions and shall include the following amount which shall be subject to increases or decreases for changes in the Work as provided in Article 7 hereof:

Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project:

A Lump Sum of **Payment in Written Form Dollars (\$Payment in Numerical Form)** for Construction Supervision and Superintendence, as described in the Supplementary Conditions.

5.2 At final completion should the Cost of the Work, as audited and approved by the Owner exceed the Target Cost, the Contractor shall be entitled to a **50%** payment for the difference between the Final Cost of the Work and the Target Cost as provided.

5.3 At final completion should the Cost of the Work as audited and approved by the Owner be less than the Target Cost, an additional payment shall be made to the Contractor equal to **50%** of the difference between final Cost of the Work and Target Cost as an incentive to the Contractor to reduce the project cost to Owner.

5.4 It is understood that the Contract Price has been calculated on the basis of Conceptual Documents and that further development will occur as necessary to produce Final Contract Drawings and Specifications necessary to complete the design, to obtain regulatory approvals and to perform the Work. No adjustment will be made to the Contract Price unless future development of these Conceptual Documents during the Final Design Phases results in material changes in the scope, extent or character of the work to be performed or furnished or in the quality or function of the intended completed project not reasonably inferable or anticipatable from the Conceptual Documents by a Contractor experienced in the construction of water treatment facilities.

ARTICLE 6 - CONTRACTOR'S FEE

6.1 The Contractor's Fee for those costs not included in the Cost of the Work shall be as follows:

Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project:

A fixed fee of **Payment in Written Form Dollars (\$Payment in Numerical Form)** subject to increases or decreases for changes in the Work as provided in Article 7 hereof Conditions.

ARTICLE 7 - CHANGES IN THE WORK

The amount of any increases or decreases in Contractor's Fee which results from a Change Order shall be set forth in the applicable Change Order subject to the following:

7.1 The amount of any increases or decreases in the Contractor's Fee which results from a change in the work shall be set forth in the applicable document amending the Contract Documents subject to the following:

A. Design Phase Changes: For changes in the Work ordered by Owner prior to completion of the Design Phase, the fixed fee will be adjusted by 5% of the estimated construction cost increase or decrease associated with the change. For changes involving cost increases, if during the Design Phase, Owner and Contractor are unable to agree to, or establish, the estimated construction cost increase associated with the change, this determination will be deferred to the Construction Phase at which time the actual Cost of the Work associated with the change is to be determined and used to make the 5% fixed fee adjustment.

B. Construction Phase Changes: After completion of the Final Design Phase, and approval of the final construction cost estimate, no adjustments to the fixed fee shall be made unless Owner orders additions or deletions to the Work which directly result in the Cost of the Work being greater than one hundred and ten percent (110%), or less than ninety percent (90%) of the final construction cost estimate. In such case the fixed fee shall be increased by 10% of the actual cost directly attributable to the change above 110% of the estimate or decreased by 5% of the cost directly attributable to the change below 90% of the approved estimate. Documents amending the Contract Documents as applicable will be issued to document Owner additions or deletions to work.

7.2 The amount of any increase or decrease in the Lump Sum Amount provided in Article 5 hereof shall include only direct costs (i.e. no fee) and shall be determined in accordance with paragraph 11.3 of the General Conditions as may be revised or amended by the Supplementary Conditions.

ARTICLE 8 - PAYMENT PROCEDURES

8.1 Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

Progress Payments; Retainage. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment as recommended by Engineer, on or about the 25th day of each month during construction as provided in paragraphs 8.1.1, 8.1.2 and 8.2 below. All such payments will be subject to the limitations of any fee and will be measured by the schedule of values established in paragraph 2.05 of the General Conditions, or in the event there is no schedule of values, as provided in the General Requirements.

8.1.1 For Cost of Work: Progress payments on account of the Cost of the Work will be made:

8.1.1.1 Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as Engineer shall determine, or Owner may withhold, in accordance with paragraph 14.02 of the General Conditions.

Unless otherwise agreed to in advance by Owner for specific subcontracts or material/equipment purchase orders, **95%** of the Cost of the Work completed and Cost of the Work applicable to materials and equipment not incorporated in the Work, but delivered, suitably stored and accompanied by documentation satisfactory to Owner as provided in paragraph 14.02 of the General Conditions (with the balance being retainage).

8.1.1.2 The Contractor shall submit a Progress Payment Application to the Owner on or about the 25th day of each month that includes the following:

- (1) The Contractor's estimate of the total expenditure that they will incur and the sums that they will be due them in the month succeeding the month in which the request is made, provided that in the first month the Contractor may submit their estimate for that month at its beginning; and
- (2) The total of the Contractor's actual expenditure and sums due him for the month preceding the month in which the request is made;
- (3) Any amount previously certified by the Owner in respect of the Contractor's estimated expenditure and sums due them for the preceding month.
- (4) The Contractor's Progress Payment Application shall be supported by all relevant documentary evidence and show the manner in which the total requested has been calculated. In addition, the Contractor will submit with all Progress Payment Applications, except Final Progress Payment, a conditional waiver and release duly executed by the Contractor and their subcontractors and suppliers on the form in the Supplementary Conditions.

8.1.1.3 Upon Substantial Completion and receipt of Release of Liens from suppliers and subcontractors whose Work is completed, in an amount sufficient to increase the total payments to Contractor such that retained funds will be approximately equal to the value of the remaining Work. Value to be agreed upon by the Owner, Engineer and Contractor, less such amounts as Engineer shall determine, or Owner may withhold, in accordance with paragraph 14.7 of the General Conditions.

8.1.2 For Contractor's Fee and Lump Sum Amount for Supervision and Superintendence, Progress payments will be made:

8.1.2.1 Payments will be in an amount equal to **100%** of the portion of such fee and lump sum earned to the date of the approved Application for Payment (less in each case payments previously made on account of such fee) based on the progress of the Work measured by the schedule of values established as provided in paragraph 2.05 of the General Conditions.

8.2 Final Payment. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, Owner shall pay the remainder of the Contract Price and any retained funds, as recommended by Engineer as provided in said Paragraph 14.07. For the Contractor's Final Progress Payment Application, the Contractor will submit an unconditional waiver and release duly executed by Contractor and their subcontractors and suppliers on the form in the Supplementary Conditions.

8.3 Interest. Not Used.

ARTICLE 9 - CONTRACTOR'S REPRESENTATIONS

In order to induce Owner to enter into this Agreement Contractor makes the following representations:

9.1 Contractor has familiarized itself with the nature and extent of the Contract Documents, Contract Times, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

9.2 Contractor has studied carefully all reports of explorations and tests of subsurface conditions and drawings of physical conditions which are identified in the Supplementary Conditions as provided in Paragraph 4.02 of the General Conditions, and accepts the limitations set forth in Article B, Section 4.02 of the General Conditions.

9.3 Contractor has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, reports and studies (in addition to or to supplement those referred to in Paragraph 9.2 above) which pertain to the subsurface or physical conditions at or contiguous to the site or otherwise which may affect the cost, progress, performance or furnishing of the Work as Contractor considers necessary for the performance or furnishing of the Work at the Contract Price, within the Contract Times and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Paragraph 4.02 of the General Conditions; and no additional examinations, investigations, explorations, tests, reports, studies or similar information or data are or will be required by Contractor for such purposes.

9.4 Contractor has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports, studies or similar information or data in respect of said Underground Facilities are or will be required by Contractor in order to perform and furnish the Work at the Contract Price, within the Contract Times and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Paragraph 4.03 of the General Conditions.

9.5 Contractor has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

9.6 Contractor has given Engineer written notice of all conflicts, errors or discrepancies that he has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Contractor.

ARTICLE 10 - ACCOUNTING RECORDS

Contractor shall check all materials, equipment and labor entering into the Work and shall keep such full and detailed accounts as may be necessary for proper financial management under this Agreement, and the accounting methods shall be satisfactory to Owner. Owner shall be accorded access to all Contractor's records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda and similar data relating to the Cost of the Work and Contractor's fee. Contractor shall preserve all such documents for a period three years after final payment by Owner.

ARTICLE 11 - CONTRACT DOCUMENTS

The Contract Documents which comprise the entire agreement between Owner and Contractor concerning the Work consist of the following:

- 11.1 This Agreement (pages ____ to ____, inclusive).
- 11.2 Performance and Labor and Material Payment Bonds, identified as exhibits A and B and consisting of 4 pages.
- 11.3 Notice of Award. (Note: This document is not attached to this Agreement.)
- 11.4 General Conditions (Document Identification: Standard General Conditions of the Construction Contract – 2008 American Water System Edition, pages GC-0 to GC-61, inclusive).
- 11.5 Supplementary Conditions (pages SC-1 to SC-15 and Appendices A to C, inclusive).
- 11.6 Basis of Design Memo - Draft entitled **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project** prepared by **Hazen and Sawyer** dated **March 12, 2018**.
- 11.7 Drawings entitled **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project** prepared by **Hazen and Sawyer** dated **March 12, 2018**.
- 11.8 Intentionally left open
- 11.9 Addenda numbers ____ to ____, inclusive.
- 11.10 Contractor's Proposal (pages ____ to ____, inclusive) marked exhibit **CU**, including all certifications and documentation furnished with the Proposal as described in Article 13 of Instructions to Bidders.
- 11.11 Documentation submitted by Contractor prior to Notice of Award (pages ____ to ____, inclusive).
- 11.12 The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto:

- 11.12.1 All Written Amendments and other documents amending, modifying, or supplementing the Contract Documents pursuant to Paragraph 3.04 of the General Conditions.
 - 11.12.2 Specifications as defined in the General Conditions.
 - 11.12.3 Drawings as defined in the General Conditions.
- 11.13 The documents listed in Paragraphs 11.2 et seq. above are attached to this Agreement (except as expressly noted otherwise above).

There are no Contract Documents other than those listed above in this Article 11. The Contract Documents may only be amended, modified or supplemented as provided in Paragraph 3.04 of the General Conditions.

ARTICLE 12 - MISCELLANEOUS

12.1 Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meaning indicated in the General Conditions.

12.2 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

12.3 Owner and Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

12.4 Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision. This Agreement is to be governed by the laws of the State of Missouri.

12.5 Contractor certifies that is has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 12.5

1. "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process or in the Contract execution.
2. "Fradulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

3. "Collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels.

4. "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 13 - OTHER PROVISIONS

13.1 Government Regulations

The following clauses, where applicable, are incorporated in this Agreement by reference as is fully set out; the Equal Opportunity Clause prescribed in 41 CFR 60-1.40, the Affirmative Action Clause prescribed in 41 CFR 60-250.4, regarding veterans and veterans of the Vietnam Era, and the Affirmative Action Clause for Handicapped Workers prescribed in 41 CFR 60-741.4.

Contractor accepts this Agreement and will supply any information relating to federal or state laws, rules or regulations relating to the above.

13.2 Background Check

Contractor shall conduct a background check on each of its employees prior to the employee performing any function or activity under this Agreement involving any direct customer contact, or on-site work at any of the Company's water treatment plants or pump stations. As used in the Agreement, "direct customer contact" shall include but not be limited to, any activity by the Contractor's employee at or near a customer's premises. The background check conducted by Contractor shall consist of a check of at least the following: Previous employers and dates of employment; Education; Driving record; Criminal history (state and federal); References; Credit history. Prior to commencing any work under this Agreement, Contractor shall provide proof to the Owner that the requirements of this Paragraph have been met. Contractor shall make available to the Company, upon request, the documentation and results of the background check with respect to any employee of Contractor performing any function under this Agreement involving any direct customer contact.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement in quadruplicate. Two counterparts have been delivered to Owner, and one counterpart each has been delivered to Contractor and Engineer. All portions of the Contract Documents have been signed or identified by Owner and Contractor or by Engineer on their behalf.

This Agreement will be effective on _____, _____.

Owner:

Contractor:

By _____

By _____

(Corporate Seal)

(Corporate Seal)

Attest _____

Attest _____

Address for giving notices

Address for giving notices

License No. _____

(If Contractor is a corporation, attach evidence of authority to sign.)

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that _____,
 having an office at _____, as Principal,
 hereinafter called Contractor, and _____,
 having an office at _____, as Surety,
 hereinafter called Surety, are held and firmly bound unto **Kentucky American Water Company**, having an office at **2300 Richmond Road, Lexington, KY 40502**, as Obligee, hereinafter called Owner, for the use and benefit of claimants as herein below defined in the amount of **Payment in Written Form Dollars (\$Payment in Numerical Form)**, for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____, _____, entered into a Contract with the Owner for the construction of the project entitled **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project**, in accordance with Drawings and Specifications prepared by **Hazen and Sawyer** which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly make payment of all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however to the following conditions:

1. A claimant is defined as one having a direct contract with the Contractor or with a Subcontractor of the Contractor for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.
2. The above named Contractor and Surety hereby jointly and severally agreed with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
3. No suit or action shall be commenced hereunder by any claimant:
 - a) Unless claimant, other than one having a direct contract with the Contractor, shall have given written notice to any two of the following: the Contractor, the Owner or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is

made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Contractor, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

b) After the expiration of one (1) year following the date on which Contractor ceased Work on said Contract or after the expiration of one (1) year following the Date of Substantial Completion of the Project, whichever is later, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, on any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against such improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this _____ day of _____, 20_____.

WITNESS:

CONTRACTOR (SEAL)

By _____

(Witness' Signature)

(Title)

WITNESS:

(Name of Surety) (SEAL)

By _____
(Attach Power of Attorney)

(Witness' Signature)

(Title)

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that _____,
 having an office at _____, as Principal,
 hereinafter called Contractor, and _____,
 having an office at _____, as Surety,
 hereinafter called Surety, are held and firmly bound unto the **Kentucky American Water Company**, having an office at **2300 Richmond Road, Lexington, KY 40502**, as Obligee, hereinafter called Owner, for the use and benefit of claimants as herein below defined in the amount of **Payment in Written Form Dollars (\$Payment in Numerical Form)**, for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____, _____, entered into a Contract with the Owner for the construction of the project entitled **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project**, in accordance with Drawings and Specifications prepared by **Hazen and Sawyer** which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, the condition of this obligation is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of Contract Times made by the Owner.

Whenever Contractor shall be and declared by Owner to be in default under the Contract, the Surety shall promptly remedy the default. If the Owner terminates the Contract for such default, the following precautions shall govern the liability of the Contractor and the Surety hereunder.

In the event of such termination, the Contractor and the Surety shall remain fully liable to the Owner for the Contractor's failure to timely complete the Contract, any additional costs incurred by the Owner in completing the Contract, and liquidated damages from the originally scheduled completion date to the date of the actual completion of the work by the Owner.

In the event of such termination, the Surety company may elect to take over and complete performance of the Contract by giving written notice to the Owner of such determination within seven (7) days of the Owner's mailing of notice of termination to the Surety and actually commencing completion with fourteen (14) days of the Owner's notice to the Surety. The Surety shall fully complete the work by the originally scheduled date of completion and the Contractor and the Surety shall remain liable to the Owner for all damages sustained by the Owner and for liquidated damages for delay.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due or before the expiration of two (2) years from the Date of Substantial Completion of the Project, whichever is later.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

Signed and sealed this _____ day of _____, 20_____.

WITNESS:

CONTRACTOR (SEAL)

By _____

(Witness' Signature)

(Title)

WITNESS:

(Name of Surety)

(SEAL)

By _____
(Attach Power of Attorney)

(Witness' Signature)

(Title)

**STANDARD GENERAL CONDITIONS
OF THE CONSTRUCTION CONTRACT**

2008 American Water System Edition

Issued by

American Water System
Voorhees, New Jersey

The Standard General Conditions of the Construction Contract, 2008 American Water System Edition ("General Conditions"), are based on the Standard General Conditions of the Construction Contract prepared by the Engineers Joint Contract Document Committee (EJCDC Doc. No. C-700, 2007 Edition). The General Conditions incorporate terms and conditions that are consistent with American Water System practices and policies. Only the General Conditions contained herein are a part of the Contract Documents for the project.

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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

2008 American Water System Edition

ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

- A. Wherever used in the Bidding Requirements or Contract Documents and printed with initial capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
1. *Addenda* – Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
 2. *Agreement* – The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.
 3. *Application for Payment* – The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
 4. *Asbestos* – Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
 5. *Bid* – The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
 6. *Bidder* – The individual or entity who submits a Bid directly to Owner.
 7. *Bidding Documents* – The Bidding Requirements and the proposed Contract Documents (including all Addenda).
 8. *Bidding Requirements* – The Advertisement or Invitation to Bid, Instructions to Bidders, bid security of acceptable form, if any, and the Bid Form with any supplements.
 9. *Change Order* – A document recommended by Engineer which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

10. *Claim* – A demand or assertion by Owner or Contractor seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.
11. *Contract* – The entire and integrated written agreement between the Owner and Contractor concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.
12. *Contract Documents* – Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor's submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.
13. *Contract Price* – The moneys payable by Owner to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of Paragraph 11.03 in the case of Unit Price Work).
14. *Contract Times* – The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any, (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.
15. *Contractor* – The individual or entity with whom Owner has entered into the Agreement.
16. *Cost of the Work* – See Paragraph 11.01.A for definition.
17. *Drawings* – That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings and other Contractor submittals are not Drawings as so defined.
18. *Effective Date of the Agreement* – The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.
19. *Engineer* – The individual or entity named as such in the Agreement.
20. *Field Order* – A written order issued by Engineer which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.
21. *General Requirements* – Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.
22. *Hazardous Environmental Condition* – The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in connection with the Work.

23. *Hazardous Waste* – The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
24. *Laws and Regulations; Laws or Regulations* – Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
25. *Liens* – Charges, security interests, or encumbrances upon Project funds, real property, or personal property.
26. *Milestone* – A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.
27. *Notice of Award* – The written notice by Owner to the Successful Bidder stating that upon timely compliance by the Successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.
28. *Notice to Proceed* – A written notice given by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.
29. *Owner* – The American Water System entity with which Contractor has entered into the Agreement and for which the Work is to be performed.
30. *PCBs* – Polychlorinated biphenyls.
31. *Petroleum* – Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.
32. *Progress Schedule* – A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.
33. *Project* – The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.
34. *Project Manual* – The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.
35. *Radioactive Material* – Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.
36. *Resident Project Representative* – The authorized representative of Engineer who may be assigned to the Site or any part thereof.

37. *Samples* – Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
38. *Schedule of Submittals* – A schedule, prepared and maintained by Contractor, of required submittals and the time requirements to support scheduled performance of related construction activities.
39. *Schedule of Values* – A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
40. *Shop Drawings* – All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.
41. *Site* – Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.
42. *Specifications* – That part of the Contract Documents consisting of written requirements for materials, equipment, systems, standards and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable thereto.
43. *Subcontractor* – An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.
44. *Substantial Completion* – The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.
45. *Successful Bidder* – The Bidder submitting a responsive Bid to whom Owner makes an award.
46. *Supplementary Conditions* – That part of the Contract Documents which amends or supplements these General Conditions.
47. *Supplier* – A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or any Subcontractor.
48. *Underground Facilities* – All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity,

gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

49. *Unit Price Work* – Work to be paid for on the basis of unit prices.
50. *Work* – The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.
51. *Work Change Directive* – A written statement to Contractor issued on or after the Effective Date of the Agreement and signed by Owner and recommended by Engineer ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

1.02 Terminology

- A. The following words or terms are not defined but, when used in the Bidding Requirements or Contract Documents, have the following meaning.
- B. Intent of Certain Terms or Adjectives
 1. The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action or determination will be solely to evaluate, in general, the Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.09 or any other provision of the Contract Documents.
- C. Day
 1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.

D. Defective

1. The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it:
 - a. does not conform to the Contract Documents, or
 - b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents, or
 - c. has been damaged prior to Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 14.04 or 14.05).

E. Furnish, Install, Perform, Provide

1. The word “furnish,” when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.
 2. The word “install,” when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.
 3. The words “perform” or “provide,” when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.
 4. When “furnish,” “install,” “perform,” or “provide” is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of Contractor, “provide” is implied.
- F. Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 – PRELIMINARY MATTERS

2.01 *Delivery of Bonds and Evidence of Insurance*

- A. *Bonds*: When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.
- B. *Evidence of Insurance*: Before any Work at the Site is started, Contractor and Owner shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which Contractor and Owner respectively are required to purchase and maintain in accordance with Article 5.

2.02 *Copies of Documents*

- A. Owner shall furnish to Contractor up to ten printed or hard copies of the Drawings and Project Manual. Additional copies will be furnished upon request at the cost of reproduction.

2.03 *Commencement of Contract Times; Notice to Proceed*

- A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will Owner have any obligations or duties to Contractor under the Agreement until Contract Times commence to run.

2.04 *Starting the Work*

- A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.05 *Before Starting Construction*

- A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), Contractor shall submit to Engineer for timely review:
 - 1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;
 - 2. a preliminary Schedule of Submittals; and
 - 3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.06 *Preconstruction Conference; Designation of Authorized Representatives*

- A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.05.A, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.
- B. At this conference Owner and Contractor shall each designate, in writing, specific individuals to act as their respective representatives with respect to the services and responsibilities of each party under the Contract. Such individuals shall have the authority to transmit instructions, receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.07 *Initial Acceptance of Schedules*

- A. At least 10 days before submission of the first Application for Payment a conference attended by Contractor, Engineer, and others as appropriate will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.05.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.
 - 1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve Contractor from Contractor's full responsibility therefor.
 - 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
 - 3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

ARTICLE 3 – CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.01 *Intent*

- A. The Contract Documents are complementary; what is required by one is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the indicated result will be provided whether or not specifically called for at no additional cost to Owner.
- C. Clarifications and interpretations of the Contract Documents shall be issued by Engineer as provided in Article 9.

3.02 *Reference Standards*

- A. Standards, Specifications, Codes, Laws, and Regulations
 - 1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their Subcontractors, consultants, agents, or employees from those set forth in the Contract Documents. No such provision or instruction shall be effective to assign to Owner, or Engineer, or any of their Related Entities, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

3.03 *Reporting and Resolving Discrepancies*

A. Reporting Discrepancies

1. *Contractor's Review of Contract Documents Before Starting Work:* Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy which Contractor discovers or has actual knowledge of and shall obtain a written interpretation or clarification from Engineer before proceeding with any Work affected thereby.
2. *Contractor's Review of Contract Documents During Performance of Work:* If, during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in Paragraph 3.04.
3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. Resolving Discrepancies

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
 - a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or
 - b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Amending and Supplementing Contract Documents*

- A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof by either a Change Order or a Work Change Directive.
- B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways:
 - 1. A field order;
 - 2. Engineer's approval of a Shop Drawing or Sample (subject to the provisions of Paragraph 6.17.D.3); or
 - 3. Engineer's written interpretation or clarification.
- C. Changes in Contract Time or Contract Price must be made by Change Order. Actions by Owner or Engineer under Paragraph 3.04.B do not result in any change to Contract Time or Contract Price.

3.05 *Reuse of Documents*

- A. Contractor and any Subcontractor or Supplier shall not:
 - 1. have or acquire any title to or Ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media editions; or
 - 2. reuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer.
- B. The prohibition of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

3.06 *Electronic Data*

- A. Unless otherwise stated in the Supplementary Condition, copies of data furnished by Owner or Engineer to Contractor or Contractor to Owner or Engineer that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- B. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the

data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the transferring party.

- C. When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

ARTICLE 4 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS

4.01 Availability of Lands

- A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the Site or a part thereof, Contractor may make a Claim therefore as provided in Paragraph 10.05.
- B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.
- C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.02 Subsurface and Physical Conditions

- A. *Reports and Drawings:* The Supplementary Conditions identify:
 - 1. A Geotechnical Baseline Report that indicates the assumed subsurface conditions (except Underground Facilities) at the Site;
 - 2. other reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site that Engineer has used in preparing the Contract Documents; and
 - 3. those drawings known to Owner of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer has used in preparing the Contract Documents.
- B. *Limited Reliance by Contractor Authorized:* The Geotechnical Baseline Report, which is a Contract Document, presents as a contractual baseline those subsurface conditions that Contractor may assure it will encounter; however, Owner does not warrant that actual conditions will not vary from the assumed conditions. Contractor may rely upon the express statements and depictions regarding assumed subsurface

conditions at the Site presented as a contractual baseline in the Geotechnical Baseline Report, which is a Contract Document. Except for such reliance, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities, with respect to:

1. the completeness of the Geotechnical Baseline Report, or content, quality, or completeness of any other such reports, tests, or drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
2. other data, interpretations, opinions, and information contained in any such reports or tests, or shown or indicated in any such drawings; or
3. any Contractor interpretation of or conclusion drawn from any such report, test, or drawing or any such other data, interpretations, opinions, or information.

4.03 *Differing Subsurface or Physical Conditions*

A. Notice

1. The Contractor shall give written notice to Owner and Engineer of (a) subsurface or latent physical conditions at the Site which differ materially from those indicated in the Geotechnical Baseline Report or other Contract Documents or (b) unknown physical conditions at the Site of an unusual nature that differ materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the Contract Documents.
2. The Contractor's notice shall provide the Owner and Engineer the opportunity to investigate the conditions at the Site, and to obtain additional exploration or tests with respect to the pertinent condition. Owner shall provide to Contractor the results of any such additional tests or exploration.

B. *Engineer's Review:* After receipt of written notice as required by Paragraph 4.03.A, Engineer will promptly review the pertinent condition, determine the necessity of Owner's obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Contractor) of Engineer's findings and conclusions.

C. Possible Price and Times Adjustments

1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. such condition must meet at least one of the two categories described in Paragraph 4.03.A.1; and
 - b. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of Paragraphs 9.07 and 11.03.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:
 - a. Contractor knew of the existence of such conditions at the time Contractor made a final commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or
 - b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such final commitment; or
 - c. Contractor failed to give the written notice as required by Paragraph 4.03.A.
3. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, Contractor may make a Claim therefor as provided in Paragraph 10.05. However, Owner and Engineer, and any of their Related Entities shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

4.04 *Underground Facilities*

- A. *Shown or Indicated:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to Owner or Engineer by the Owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:
 1. Contractor may assume the general accuracy and completeness of any such information and data shown or indicated in the Contract Documents; and
 2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:
 - a. reviewing and checking all such information and data,
 - b. locating for field construction purposes all Underground Facilities shown or indicated in the Contract Documents,
 - c. coordination of the Work with the Owners of such Underground Facilities, including Owner, during construction, and
 - d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.
- B. Not Shown or Indicated

1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16.A), identify the Owner of such Underground Facility and give written notice to that Owner and to Owner and Engineer. Engineer will promptly review the Underground Facility and advise Owner as to the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
2. If Owner concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Contractor may make a Claim therefor as provided in Paragraph 10.05.

4.05 *Reference Points*

- A. Owner shall provide Engineering surveys to establish reference points and property monuments necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.06 *Hazardous Environmental Condition at Site*

- A. *Reports and Drawings:* The Supplementary Conditions identify those reports and drawings known to Owner relating to a Hazardous Environmental Condition identified at the Site, if any, that Engineer has used in preparing the Contract Documents.
- B. *Limited Reliance by Contractor Authorized:* Contractor may rely upon the express statements and depictions regarding Hazardous Environmental Conditions contained in such reports and drawings, but such reports and drawings are not Contract Documents. Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities, with respect to:
 1. the content, quality or completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods,

- techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or
2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or
 3. any Contractor interpretation of or conclusion drawn from such express statements and depictions, such reports or drawings, or from any such other data, interpretations, opinions, or information.
- C. Contractor shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible.
- D. If Contractor encounters a Hazardous Environmental Condition or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 6.16.A); and (iii) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by paragraph 4.06.E.
- E. Contractor shall not be required to resume Work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered written notice to Contractor: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, either party may make a Claim therefor as provided in Paragraph 10.05.
- F. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in Paragraph 10.05. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 7.
- G. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors,

- partners, employees, agents, consultants, and Subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.G shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- H. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants, and Subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.H shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- I. The provisions of Paragraphs 4.02, 4.03, and 4.04 do not apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

4.07 *Notice of Hazardous Materials*

- A. In accordance with the intent of the Federal Occupational Safety and Health Administration (OSHA) Standard Section 29 CFR 1910.12, Hazard Communication with effective date of May 25, 1986, as it may be amended from time to time, the Owner hereby notifies the Contractor that Work is to be performed on company property where the Contractor's employees may be exposed to hazardous materials existing on the premises.

Chemicals known to be used or stored by the Owner and required to be disclosed by said OSHA Standard Section 29 CFR 1910.12 are listed in the Supplementary Conditions.

- B. Owner, Contractor, and any Subcontractors will each provide or make available to the others: (a) any written hazard communication program required to be maintained with respect to the site and any material safety data sheet and other hazard communication information required to be provided in accordance with the applicable Laws and applicable Regulations; or (b) in the event that applicable Laws and Regulations do not require the provision or exchange of such hazard communications, Contractor and any Subcontractors shall, nevertheless, provide or make available to Owner and any other employers at the site a written hazard communication program, material safety data sheets and other hazard communication information of the type and consistent with the intent of said OSHA Standard Section 29 CFR 1910.12 and acceptable to Owner and Engineer. Contractor shall be responsible for coordinating any such required exchange of documents or information between or among Owner and any other

employers at the site, or any of them. Contractor shall include the provisions of this paragraph in any subcontract for any part of the Work at the site.

ARTICLE 5 – BONDS AND INSURANCE

5.01 Performance, Payment, and Other Bonds

- A. Contractor agrees to include in its subcontracts with major Subcontractors a requirement for such Subcontractors to furnish a Performance Bond and a Labor and Material Payment Bond, each in an amount equal to the Subcontract price and each naming the Owner and Contractor as co-obligees, as security for the faithful performance and payment of all such Subcontractors' obligations under their respective subcontract documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, except as otherwise provided by Laws or Regulations. All bonds furnished in compliance with the above shall be executed by sureties having a rating of "A" by the most recent Best's Key Rating Guide and as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.
- B. Contractor is not required to furnish a Performance or Labor and Material Payment Bond at the time of award. If Owner requests at a later date that such bonds be furnished, Contractor will provide the bonds from a surety meeting the requirements of Paragraph 5.01A above. In this case Contractor's Fee will be increased in an amount equal to the premium paid for the bonds requested by Owner.

5.02 Licensed Sureties and Insurers

- A. All bonds and insurance required by the Contract Documents to be purchased and maintained by Owner or Contractor shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

5.03 Certificates of Insurance

- A. Contractor shall deliver to Owner, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Owner or any other additional insured) which Contractor is required to purchase and maintain.
- B. Owner shall deliver to Contractor, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Contractor or any other additional insured) which Owner is required to purchase and maintain.

- C. Failure of Owner to demand such certificates or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- D. Owner does not represent that coverage and limits will necessarily be adequate to protect Contractor
- E. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner in the Contract Documents.

5.04 *Contractor's Insurance*

- A. Contractor shall purchase and maintain such insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:
 - 1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;
 - 2. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
 - 3. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
 - 4. claims for damages insured by reasonably available personal injury liability coverage which are sustained:
 - a. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or
 - b. by any other person for any other reason;
 - 5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and
 - 6. claims for damages because of bodily injury or death of any person or property damage arising out of the Ownership, maintenance or use of any motor vehicle.
- B. The policies of insurance required by this Paragraph 5.04 shall:

1. with respect to insurance required by Paragraphs 5.04.A.3 through 5.04.A.6 inclusive, be written on an occurrence basis, include as additional insureds (subject to any customary exclusion regarding professional liability) Owner and Engineer, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;
2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;
3. include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 6.11 and 6.20;
4. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 5.03 will so provide);
5. remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.07; and
6. include completed operations coverage:
 - a. Such insurance shall remain in effect for three years after final payment.
 - b. Contractor shall furnish Owner and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

5.05 *Owner's Liability Insurance*

- A. In addition to the insurance required to be provided by Contractor under Paragraph 5.04, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.

5.06 *Property Insurance*

- A. Unless otherwise provided in the Supplementary Conditions, Owner shall purchase and maintain property insurance upon the Work at the Site in the amount of the replacement cost thereof (subject to such deductible amounts as may be provided in

- the Supplementary Conditions or required by Laws and Regulations). This insurance shall:
1. include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee;
 2. be written on a Builder's Risk "all-risk" policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit ;
 3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of Engineers and architects);
 4. cover materials and equipment stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer;
 5. allow for partial utilization of the Work by Owner;
 6. include testing and startup; and
 7. be maintained in effect until final payment is made unless otherwise agreed to in writing by Owner, Contractor, and Engineer with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.
- B. Owner shall purchase and maintain such equipment breakdown insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee.
- C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with Paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other loss payee to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with Paragraph 5.07.
- D. Owner shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 5.06 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if

any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

- E. If Contractor requests in writing that other special insurance be included in the property insurance policies provided under Paragraph 5.06, Owner shall, if possible, include such insurance, and the cost thereof will be charged to Contractor by appropriate Change Order. Prior to commencement of the Work at the Site, Owner shall in writing advise Contractor whether or not such other insurance has been procured by Owner.

5.07 *Waiver of Rights*

- A. Owner and Contractor intend that all policies purchased in accordance with Paragraph 5.06 will protect Owner, Contractor, Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as loss payees (and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or loss payees thereunder. Owner and Contractor waive all rights against each other and their respective officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as loss payees (and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by Owner as trustee or otherwise payable under any policy so issued.

5.08 *Receipt and Application of Insurance Proceeds*

- A. Any insured loss under the policies of insurance required by Paragraph 5.06 will be adjusted with Owner and made payable to Owner as fiduciary for the loss payees, as their interests may appear, subject to the requirements of any applicable mortgage clause and of Paragraph 5.08.B. Owner shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order.
- B. Owner as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to Owner's exercise of this power. If such objection be made, Owner as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, Owner as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, Owner as fiduciary shall give bond for the proper performance of such duties.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

- A. If either Owner or Contractor has any objection to the coverage afforded by or other provisions of the bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by Paragraph 2.01.B. Owner and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

5.10 *Partial Utilization, Acknowledgment of Property Insurer*

- A. If Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to Paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 6 – CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

- A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent, acceptable to Owner, who shall not be replaced without written authorization from Owner except under extraordinary circumstances.

6.02 *Labor; Working Hours*

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.

- B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld) given after prior written notice to Engineer.

6.03 *Services, Materials, and Equipment*

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.
- B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.
- C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 *Progress Schedule*

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.07 as it may be adjusted from time to time as provided below.
 - 1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.07) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the General Requirements applicable thereto.
 - 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 12. Adjustments in Contract Times may only be made by a Change Order.

6.05 *Substitutes and "Or-Equals"*

- A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, no like, equivalent, or "or-equal" item, and no substitution, is permitted.

6.06 *Concerning Subcontractors, Suppliers, and Others*

- A. Contractor shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to Owner as indicated in Paragraph 6.06.B), whether

- initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.
- B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to Owner in advance for acceptance by Owner by a specified date prior to the Effective Date of the Agreement, and if Contractor has submitted a list thereof in accordance with the Supplementary Conditions, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked by Owner on the basis of reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of any right of Owner or Engineer to reject defective Work.
- C. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents:
1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier or other individual or entity, nor
 2. shall create any obligation on the part of Owner or Engineer to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.
- D. Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.
- E. Contractor shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with Engineer through Contractor.
- F. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.
- G. All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an

additional insured on the property insurance provided in Paragraph 5.06, the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

- H. Owner or Engineer may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor on account of Work performed for Contractor by a particular Subcontractor or Supplier.

6.07 *Patent Fees and Royalties*

- A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of Owner or Engineer its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.
- B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor and Engineer, and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them from and against all claims, costs, losses, and damages, including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.
- C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

6.08 *Permits*

- A. Unless otherwise provided in the Supplementary Conditions, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. Owner shall pay all charges of utility Owners for connections for providing permanent service to the Work.

6.09 *Laws and Regulations*

- A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.
- B. If Contractor performs any Work knowing or having reason to know that is contrary to Laws or Regulations, Contractor shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work. However, it shall not be Contractor's responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.
- C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

6.10 *Taxes*

- A. Unless otherwise provided in the Supplementary Conditions, Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.11 *Use of Site and Other Areas*

- A. Limitation on Use of Site and Other Areas
 1. Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the Owner

or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

2. Should any claim be made by any such Owner or occupant because of the performance of the Work, Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.
 3. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and Subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such Owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused by or based upon Contractor's performance of the Work.
- B. *Removal of Debris During Performance of the Work:* During the progress of the Work Contractor shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.
- C. *Cleaning:* Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.
- D. *Loading Structures:* Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 *Record Documents*

- A. Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to Engineer for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to Engineer for Owner.

6.13 *Safety and Protection*

- A. Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. all persons on the Site or who may be affected by the Work;
 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
- B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owners of adjacent property and of Underground Facilities and other utility Owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.
- C. All damage, injury, or loss to any property referred to in Paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- D. Contractor's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 *Safety Representative*

- A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 *Hazard Communication Programs*

See Paragraph 4.07.B.

6.16 *Emergencies*

- A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If

Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

6.17 *Shop Drawings and Samples*

A. Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the acceptable Schedule of Submittals (as required by Paragraph 2.07). Each submittal will be identified as Engineer may require.

1. *Shop Drawings*

a. Submit number of copies specified in the General Requirements.

b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 6.17.D.

2. *Samples*: Contractor shall also submit Samples to Engineer for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals.

a. Submit number of Samples specified in the Specifications.

b. Clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 6.17.D.

B. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.

C. Submittal Procedures

1. Before submitting each Shop Drawing or Sample, Contractor shall have:

a. reviewed and coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

b. determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

c. determined and verified the suitability of all materials offered with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

- d. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review and approval of that submittal.
3. With each submittal, Contractor shall give Engineer specific written notice of any variations, that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be both a written communication separate from the Shop Drawings or Sample submittal; and, in addition, by a specific notation made on each Shop Drawing or Sample submitted to Engineer for review and approval of each such variation.

D. Engineer's Review

1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.
2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
3. Engineer's review and approval shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 6.17.C.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer's review and approval shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 6.17.C.1.

E. Resubmittal Procedures

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.
2. Contractor shall furnish required submittals with sufficient information and accuracy in order to obtain required approval of an item with no more than three submittals. Engineer will record Engineer's time for reviewing subsequent submittals of Shop

Drawings, samples or other items requiring approval and Contractor shall reimburse Owner for Engineer's charges for such time.

6.18 *Continuing the Work*

- A. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by Paragraph 15.04 or as Owner and Contractor may otherwise agree in writing.

6.19 *Contractor's General Warranty and Guarantee*

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its Related Entities shall be entitled to rely on Contractor's warranty and guarantee.
- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
 2. normal wear and tear under normal usage.
- C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:
1. observations by Engineer;
 2. recommendation by Engineer or payment by Owner of any progress or final payment;
 3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;
 4. use or occupancy of the Work or any part thereof by Owner;
 5. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by Engineer;
 6. any inspection, test, or approval by others; or
 7. any correction of defective Work by Owner.

6.20 *Indemnification*

- A. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners,

- employees, agents, consultants and Subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable .
- B. In any and all claims against Owner or Engineer or any of their respective consultants, agents, officers, directors, partners, or employees by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- C. The indemnification obligations of Contractor under Paragraph 6.20.A shall not extend to the liability of Engineer and Engineer's officers, directors, partners, employees, agents, consultants and Subcontractors arising out of:
1. the preparation or approval of, or the failure to prepare or approve, maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
 2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

6.21 *Delegation of Professional Design Services*

- A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. Contractor shall not be required to provide professional services in violation of applicable law.
- B. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.

- C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.
- D. Pursuant to this Paragraph 6.21, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 6.17.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

ARTICLE 7 – OTHER WORK AT THE SITE

7.01 *Related Work at Site*

- A. Owner may perform other work related to the Project at the Site with Owner's employees, or via other direct contracts therefor, or have other work performed by utility Owners. If such other work is not noted in the Contract Documents, then:
 - 1. written notice thereof will be given to Contractor prior to starting any such other work; and
 - 2. if Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in Paragraph 10.05.
- B. Contractor shall afford each other Contractor who is a party to such a direct contract, each utility Owner and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work, and shall properly coordinate the Work with theirs. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility Owners and other Contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between Owner and such utility Owners and other Contractors.
- C. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 7, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of

such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

7.02 *Coordination*

- A. If Owner intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:
1. the individual or entity who will have authority and responsibility for coordination of the activities among the various Contractors will be identified;
 2. the specific matters to be covered by such authority and responsibility will be itemized; and
 3. the extent of such authority and responsibilities will be provided.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

ARTICLE 8 – OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

- A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

8.02 *Replacement of Engineer*

- A. In case of termination of the employment of Engineer, Owner shall appoint an Engineer whose status under the Contract Documents shall be that of the former Engineer.

8.03 *Furnish Data*

- A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

8.04 *Pay When Due*

- A. Owner shall make payments to Contractor when they are due as provided in Paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

- A. Owner's duties in respect of providing lands and easements and providing Engineering surveys to establish reference points are set forth in Paragraphs 4.01 and 4.05. Paragraph 4.02 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site that have been utilized by Engineer in preparing the Contract Documents.

8.06 *Insurance*

- A. Owner's responsibilities, if any, in respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

8.07 *Change Orders*

- A. Owner is obligated to execute Change Orders as indicated in Paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

- A. Owner's responsibility in respect to certain inspections, tests, and approvals is set forth in Paragraph 13.03.B.

8.09 *Limitations on Owner's Responsibilities*

- A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

8.10 *Undisclosed Hazardous Environmental Condition*

- A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

- A. If and to the extent Owner has agreed to furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents, Owner's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

8.12 *Compliance with Safety Program*

- A. While at the Site, Owner and its employees and representatives shall become familiar with Contractor's safety programs as initiated and maintained under Paragraph 6.13 and shall comply with the requirements of such programs while at the Site.

ARTICLE 9 – ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *Owner's Representative*

- A. Engineer will be Owner's representative during the construction period.
- B. Owner reserves the right to at any time, and in Owner's sole discretion; 1) designate an employee or Owner or an Owner-affiliated entity as Engineer, 2) directly undertake or perform some or all Engineer's authority, duties, or responsibilities, and 3) retain Owner-affiliated entities or independent Engineers, consultants, or managers to

undertake some or all of Engineer's or Owner's authority, duties or responsibilities under the Contract Documents.

- C. The assignment of any authority, duties or responsibilities to Engineer or others under the Contract Documents, or any undertaking, exercise or performance thereof by Engineer, Owner, or others is intended to be for the sole and exclusive benefit of Owner and not for the benefit of Contractor, Subcontractor, Supplier, or any other person or organization.

9.02 *Visits to Site*

- A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.
- B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 9.09. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

9.03 *Project Representative*

- A. If Owner and Engineer agree, Engineer will furnish a Resident Project Representative to assist Engineer in providing more extensive observation of the Work. The authority and responsibilities of any such Resident Project Representative and assistants will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 9.09. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

9.04 *Authorized Variations in Work*

- A. Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if

any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

9.05 *Rejecting Defective Work*

- A. Engineer will have authority to reject Work which Engineer believes to be defective, or that Engineer believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Engineer will also have authority to require special inspection or testing of the Work as provided in Paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

9.06 *Shop Drawings, Change Orders and Payments*

- A. In connection with Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, see Paragraph 6.17.
- B. In connection with Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, see Paragraph 6.21.
- C. In connection with Engineer's authority as to Change Orders, see Articles 10, 11, and 12.
- D. In connection with Engineer's authority as to Applications for Payment, see Article 14.

9.07 *Determinations for Unit Price Work*

- A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of Paragraph 10.05.

9.08 *Decisions on Requirements of Contract Documents and Acceptability of Work*

- A. Engineer will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. All matters in question and other matters between Owner and Contractor arising prior to the date final payment is due relating to the acceptability of the Work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, will be referred initially to Engineer in writing within 30 days of the event giving rise to the question.
- B. Engineer will, with reasonable promptness, render a written decision on the issue referred. If Owner or Contractor believes that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a Claim may be made under Paragraph 10.05. The date of Engineer's decision shall be the date of the event giving rise to the issues referenced for the purposes of Paragraph 10.05.B.

- C. Engineer's written decision on the issue referred will be final and binding on Owner and Contractor, subject to the provisions of Paragraph 10.05.
- D. When functioning as interpreter and judge under this Paragraph 9.08, Engineer will not show partiality to Owner or Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

9.09 *Limitations on Engineer's Authority and Responsibilities*

- A. Neither Engineer's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.
- B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.
- D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 14.07.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with the Contract Documents.
- E. The limitations upon authority and responsibility set forth in this Paragraph 9.09 shall also apply to the Resident Project Representative, if any, and assistants, if any.

ARTICLE 10 – CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Change Order, or a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

- B. If Owner and Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in Paragraph 10.05.

10.02 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in Paragraph 3.04, except in the case of an emergency as provided in Paragraph 6.16 or in the case of uncovering Work as provided in Paragraph 13.04.B.

10.03 *Execution of Change Orders*

- A. Owner and Contractor shall execute appropriate Change Orders recommended by Engineer covering:
 - 1. changes in the Work which are: (i) ordered by Owner pursuant to Paragraph 10.01.A, (ii) required because of acceptance of defective Work under Paragraph 13.08.A or Owner's correction of defective Work under Paragraph 13.09, or (iii) agreed to by the parties;
 - 2. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and
 - 3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Engineer pursuant to Paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, Contractor shall carry on the Work and adhere to the Progress Schedule as provided in Paragraph 6.18.A.

10.04 *Notification to Surety*

- A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

10.05 *Claims*

- A. [Reserved]
- B. *Notice:* Written notice stating the general nature of each Claim shall be delivered by the claimant to Engineer and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. The responsibility to substantiate a Claim shall rest with the party making the Claim. Notice of the amount

- or extent of the Claim, with supporting data shall be delivered to the Engineer and the other party to the Contract within 60 days after the start of such event. A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 12.01.B. A Claim for an adjustment in Contract Times shall be prepared in accordance with the provisions of Paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to Engineer and the claimant within 30 days after receipt of the claimant's last submittal.
- C. *Other Party's Action:* The other party will review each Claim and, within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one of the following actions in writing:
1. deny the Claim in whole or in part, or
 2. approve the Claim.
- D. In the event that the other party does not take action on a Claim within said 30 days, the Claim shall be deemed denied.
- E. The other party's written action under Paragraph 10.05.C or denial pursuant to Paragraph 10.05.D will be final and binding upon the claimant, Owner and Contractor, unless claimant invokes the dispute resolution procedure set forth in Article 16 within 30 days of such action or denial.
- F. No Claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with this Paragraph 10.05.

ARTICLE 11 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

- A. *Costs Included:* The term Cost of the Work means the sum of all costs, except those excluded in Paragraph 11.01.B, necessarily incurred and paid by Contractor in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to Contractor will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by Owner, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the costs itemized in Paragraph 11.01.B.
1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social

security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.
3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from Subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 11.01.
4. Costs of special consultants (including but not limited to Engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.
5. Supplemental costs including the following:
 - a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
 - c. Rentals of all construction equipment and machinery, and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, imposed by Laws and Regulations.

- e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

- f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 5.06.D), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.
 - g. The cost of utilities, fuel, and sanitary facilities at the Site.
 - h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expresses, and similar petty cash items in connection with the Work.
 - i. The costs of premiums for all bonds and insurance Contractor is required by the Contract Documents to purchase and maintain.
- B. *Costs Excluded.* The term Cost of the Work shall not include any of the following items:
- 1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, Engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the Contractor's fee.
 - 2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
 - 3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
 - 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
 - 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraphs 11.01.A and 11.01.B.
- C. *Contractor's Fee:* When all the Work is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract

Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 12.01.C.

- D. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to Paragraphs 11.01.A and 11.01.B, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

11.02 *Allowances*

- A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

B. Cash Allowances

1. Contractor agrees that:

- a. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
- b. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

C. Contingency Allowance

1. Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

11.03 *Unit Price Work*

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by Contractor will be made by Engineer subject to the provisions of Paragraph 9.07.

- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Owner or Contractor may make a Claim for an adjustment in the Contract Price in accordance with Paragraph 10.05 if:
 - 1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and
 - 2. there is no corresponding adjustment with respect any other item of Work; and
 - 3. Contractor believes that Contractor is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 12 – CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

12.01 Change of Contract Price

- A. The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.
- B. The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:
 - 1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 11.03); or
 - 2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 12.01.C.2); or
 - 3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in Paragraph 11.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 12.01.C).
- C. *Contractor's Fee:* The Contractor's fee for overhead and profit shall be determined as follows:
 - 1. a mutually acceptable fixed fee; or
 - 2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

- a. for costs incurred under Paragraphs 11.01.A.1 and 11.01.A.2, the Contractor's fee shall be 15 percent;
- b. for costs incurred under Paragraph 11.01.A.3, the Contractor's fee shall be five percent;
- c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraph 12.01.C.2.a is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under Paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and Contractor will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;
- d. no fee shall be payable on the basis of costs itemized under Paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;
- e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost; and
- f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

12.02 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order. Any Claim for an adjustment in the Contract Times shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.
- B. Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

12.03 *Delays*

- A. Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility Owners or other Contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.
- B. If Owner, Engineer, or other Contractors or utility Owners performing other work for Owner as contemplated by Article 7, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the

- Contract Times, or both. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- C. If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility Owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays described in this Paragraph 12.03.C.
- D. Owner, Engineer and the Related Entities of each of them shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.
- E. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

ARTICLE 13 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

13.01 Notice of Defects

- A. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 Access to Work

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 Tests and Inspections

- A. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- B. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;
 2. that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in said Paragraph 13.04.C; and
 3. as otherwise specifically provided in the Contract Documents.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.
- D. Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.
- E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, it must, if requested by Engineer, be uncovered for observation.
- F. Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.
- G. No observations, inspections, tests, or approvals by Engineer, Owner, or others shall relieve Contractor of its obligation to perform the Work in accordance with the Contract Documents.

13.04 *Uncovering Work*

- A. If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.
- B. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment.
- C. If it is found that the uncovered Work is defective, Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure,

observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.

- D. If, the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

13.05 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

- A. Promptly after receipt of written notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).
- B. When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

13.07 *Correction Period*

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
1. repair such defective land or areas; or
 2. correct such defective Work; or

3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.
- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this Paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- E. Contractor's obligations under this Paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by Contractor pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

13.09 *Owner May Correct Defective Work*

- A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work or to remove and replace rejected Work as required by Engineer in accordance with Paragraph 13.06.A, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.
- B. In exercising the rights and remedies under this Paragraph 13.09, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other Contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this Paragraph.
- C. All claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.
- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 13.09.

ARTICLE 14 – PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

- A. The Schedule of Values established as provided in Paragraph 2.07.A will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

- A. Applications for Payments
 - 1. At least 20 days before the date for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application

for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Each Application for Payment shall be accompanied by complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work, to the date of the Application for Payment.
3. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.
4. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

B. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations on the Site of the executed Work as an experienced and qualified design professional and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:
 - a. the Work has progressed to the point indicated;
 - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under Paragraph 9.07, and to any other qualifications stated in the recommendation); and
 - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

- a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract Documents; or
 - b. that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.
4. Neither Engineer's nor Owner's review of Contractor's Work for the purposes of recommending payments or determining to make payments, nor Engineer's recommendation of any payment, including final payment, nor Owner's decision to make any payment, including final payment, will impose responsibility on Engineer or Owner:
- a. to supervise, direct, or control the Work, or
 - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
 - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
 - d. to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or
 - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 14.02.B.2. Engineer may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:
- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
 - b. the Contract Price has been reduced by Change Orders;
 - c. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
 - d. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

C. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

D. Reduction in Payment

1. Owner may refuse to make payment of the full amount recommended by Engineer because:
 - a. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
 - b. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
 - c. there are other items entitling Owner to a set-off against the amount recommended; or
 - d. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.
2. If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, when Contractor remedies the reasons for such action.
3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 14.02.C.1 and subject to interest as provided in the Agreement.

14.03 *Contractor's Warranty of Title*

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

14.04 *Substantial Completion*

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not

- consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will within 14 days after submission of the tentative certificate to Owner notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will within said 14 days execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.
- E. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the tentative list.

14.05 *Partial Utilization*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions.
1. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner and Engineer will follow the procedures of paragraph 14.04 A.-D. for that part of the Work.

2. Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

A. Application for Payment

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.
2. The final Application for Payment shall be accompanied (except as previously delivered) by:
 - a. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.7;
 - b. consent of the surety, if any, to final payment;
 - c. a list of all Claims against Owner that Contractor believes are unsettled; and
 - d. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work.

3. Contractor shall defend, indemnify, and hold Owner harmless against any Lien filed in connection with the Work by any Subcontractor, Supplier, or other lien claimant. At Owner's request, Contractor shall furnish a bond or other collateral satisfactory to Owner to protect and indemnify Owner against any Lien.

B. Engineer's Review of Application and Acceptance

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable subject to the provisions of Paragraph 14.09. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

C. Payment Becomes Due

1. Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and will be paid by Owner to Contractor.

14.08 *Final Completion Delayed*

- A. If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 *Waiver of Claims*

- A. The making and acceptance of final payment will constitute:
 1. a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms

of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by Contractor against Owner and a release of all liens other than those previously made in accordance with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

ARTICLE 15 – SUSPENSION OF WORK AND TERMINATION

15.01 Owner May Suspend Work

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

15.02 Owner May Terminate for Cause

- A. The occurrence of any one or more of the following events will justify termination for cause:
 1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);
 2. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;
 3. Contractor's repeated disregard of the authority of Engineer; or
 4. Contractor's violation in any substantial way of any provisions of the Contract Documents.
- B. If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:
 1. exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion),
 2. incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and
 3. complete the Work as Owner may deem expedient.

- C. If Owner proceeds as provided in Paragraph 15.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph Owner shall not be required to obtain the lowest price for the Work performed.
- D. Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.
- E. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.
- F. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01.A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B, and 15.02.C.

15.03 *Owner May Terminate For Convenience*

- A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
 - 1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 - 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;
 - 3. all claims, costs, losses, and damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and
 - 4. reasonable expenses directly attributable to termination.
- B. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner payment on the same terms as provided in Paragraph 15.03.
- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this Paragraph 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this Paragraph.

ARTICLE 16 – DISPUTE RESOLUTION

16.01 *Methods and Procedures*

- A. At any time after submitting notice of a claim under Paragraph 10.05.B and prior to the expiration of the 30-day time period set forth in Paragraph 10.05.E, Owner or Contractor may give to the other party written notice of intent to submit the Claim to a process of bilateral negotiations as set forth below.
- B. Within 30 days of delivery of such notice, Owner and Contractor shall meet and confer regarding the Claim. A good-faith effort to negotiate resolution shall be made by both parties.
- C. If the negotiations contemplated by Paragraph 16.01.B are unsuccessful, management representatives of Owner and Contractor at least one tier above the individuals who met under 16.01.B shall meet, confer, and negotiate within 30 days of the closure of the unsuccessful negotiations.
- D. If the Claim is not resolved by negotiation, the Claim shall be deemed denied and shall become final and binding 30 days after termination of the negotiations unless, within that time period, Claimant:
 - 1. elects in writing to invoke any further dispute resolution process provided for in the Supplementary Conditions, or
 - 2. agrees with the other party to submit the Claim to another dispute resolution process, or
 - 3. gives written notice to the other party of the intent to submit the Claim to a court of competent jurisdiction.

- E. All other disputes arising under the Contract shall be resolved through submittal of the dispute to a court of competent jurisdiction, unless another dispute resolution process is provided for in the Supplementary Conditions.

ARTICLE 17 – MISCELLANEOUS

17.01 Giving Notice

- A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:
1. delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or
 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice, or by facsimile transmission.

17.02 Computation of Times

- A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 Cumulative Remedies

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 Survival of Obligations

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

17.05 Controlling Law

- A. This Contract is to be governed by the law of the state in which the Project is located.

17.06 Headings

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the **Standard General Conditions of the Construction Contract, 2008 American Water System Edition**, and other provisions of the Contract Documents as indicated below. All provisions that are not so amended or supplemented remain in full force and effect.

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Appendices:

Appendix A – Insurance Requirements and Sample Insurance Certificates (2 pages)

Appendix B - Release of Liens forms (Contractor, 2 pgs., Subcontractor, 1 pgs.)

Appendix C - Sales Tax Guidelines (2 pages)

Appendix D - Geotechnical Baseline Report

SUPPLEMENTARY CONDITIONS

SC-1.01 Definitions

The terms used in these Supplementary Conditions have the meanings stated in the General Conditions. Additional terms used in these Supplementary Conditions have the meanings stated below, which are applicable to both the singular and plural thereof.

Conceptual Documents – The drawings and specifications and/or other graphic or written materials, criteria and information concerning Owner's requirements for the Project, such as design objectives and constraints, space, capacity and performance requirements, flexibility and expandability, including those items enumerated in the design memorandum which show or describe the character and scope of, or relate to, the Work to be performed or furnished and which have been prepared by or for Owner.

Construction – The performing or furnishing of labor, the furnishing and incorporating of materials and equipment into the Work and the furnishing of services and documents, all as required by the Contract Documents.

Target Cost – The estimated cost derived upon completion of 60% design, including incorporation of Owner's comments, the contractor shall develop and present a final detailed estimate of the cost of the construction activities. To the owner, the Supplemental conditions, SC-6.00 Final Design Phase and SC-11.01 Cost of Work, provides a detailed description of this requirement.

SC-1.02 Terminology

Whenever the term "Water Company" is used in these Contract Documents it shall have the same meaning as Owner or Engineer, whichever is applicable.

SC-2.02 Copies of Documents

Delete paragraph 2.02 in its entirety and insert the following:

- A. Owner shall furnish to Contractor up to **TWO (2) sets** of hard copy reproducible Contract Drawings and one unbound set of the Project Manual along with **ONE (1) set in electronic format (.PDF version)**. Additional copies will be furnished upon request at a cost of reproduction.

SC-2.03 Commencement of Contract Times; Notice to Proceed

Add the following immediately after paragraph 2.03.A.

Owner will issue two (2) Notices to Proceed. The first will be the Final Design Phase Notice to Proceed, and the second will be the Construction Phase Notice to Proceed.

Final Design Phase: Work under the Final Design Phase of the Contract will commence on the day indicated in the Final Design Notice to Proceed. Refer to Article 6 – Contractor's Responsibilities, of the General Conditions, as amended by these

Supplementary Conditions for Contractor's Duties and Limitations during this phase of the Project.

Construction Phase: Work under the Construction Phase of the Contract will commence on the day indicated in the Construction Phase Notice to Proceed. Upon commencement of the Construction Phase, Contractor shall start to perform Contractor's obligations under the Contract Documents without the Final Design Phase limitations set forth in these Supplementary Conditions. The Construction Phase is anticipated to begin when the following conditions have been satisfied:

1. Design has been completed sufficiently to begin construction and the preliminary cost estimate has been approved by the Engineer. At the time for developing this contract documents, it is anticipated that the design will be completed by **October 26, 2018**.
2. All construction permits have been issued. At the time for developing this contract documents, it is anticipated that all permits will be received by **October 26, 2018**.

SC-2.06 Preconstruction Conference

Delete the title of subparagraph 2.06 of the General Conditions in its entirety and substitute in its place a new title headed "*Preconstruction Conference to establish Partnering Relationship; Designation of Authorized Representatives*"

Delete Paragraph 2.06.A in its entirety and insert the following in its place:

- A. Before any Work at the site is started, a conference attended by Owner, Contractor, Engineer, major subcontractor's and others as appropriate will be held with the assistance of a Facilitator in order to establish a Partnering relationship among the parties as to the Work and to discuss the schedules and procedures referred to in paragraph 2.05.A of the General Conditions. At such conference, the parties shall develop common Project objectives in the form of a partnering charter and shall develop working arrangements for periodic meetings among the parties, including subsequent partnering meetings, and for the rapid resolution of issues that may develop. Owner and Contractor shall mutually agree on the selection of the Facilitator. The cost of the Facilitator and the cost of the meeting facilities for all partnering sessions will be paid by the Owner. Each party will be responsible for the payroll, travel and living expenses of their employees and their subcontractors or consultants designated to attend the meeting. **Four** formal partnering sessions are anticipated, an initial **FULL** day workshop session followed by **1** separate follow-up meeting. All three sessions shall be scheduled in conjunction with design review meetings and/or project meetings to minimize travel expense.

SC-4.02 Subsurface and Physical Conditions

Add the following new paragraph(s) immediately after Paragraph 4.02.B:

C. The following Geotechnical Baseline Report is included as a Contract Document and indicates the subsurface conditions (except Underground Facilities and Hazardous Environmental Conditions) at the Site:

1. Geotechnical Report (to be included as an Addendum)

D. No other reports of explorations or tests of subsurface conditions at or contiguous to the Site were used in the preparation of the Drawings and Specifications.

SC-4.06 Hazardous Environmental Conditions

Delete Paragraphs 4.06.A and 4.06.B in their entirety and insert the following:

A. No reports or drawings related to Hazardous Environmental Conditions are known to Owner or Engineer.

B. Not Used.

SC-4.07 Chemicals Used or Stored

Add the following new paragraph immediately after Paragraph 4.07.B.

C. Chemicals known to be used or stored by the Owner at the Site and required to be disclosed under OSHA Standard Section 29 CFR 1910.12 are the following:

Chlorine, Caustic Soda, PACI, Anhydrous Ammonia, Hydrofluosilicic Acid, Zinc Orthophosphate

SC-5.01 Performance, Payment and Other Bonds

[Note to User: If Performance and Payment Bonds are being used, add the following paragraph. Attach the Labor and Payment Material Bond and Performance Bond as Exhibit A and B, respectively to the Agreement]

Delete Paragraph 5.01 in its entirety and insert the following:

A. Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all of Contractor's obligations under the Contract Documents. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 13.07, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.

B. All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All bonds signed by an agent or attorney-in-fact must be

accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority shall show that it is effective on the date the agent or attorney-in-fact signed each bond.

- C. If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of Paragraph 5.01.B, Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the requirements of Paragraphs 5.01.B and 5.02.

SC-5.04 Contractor's Insurance

Add the following new paragraphs immediately after Paragraph 5.04.B:

- C. The limits of liability for the insurance required by Paragraph 5.04 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations:

1. At no expense to Owner, Contractor and subcontractors shall (1) obtain and keep in force during the term of this Agreement, and any renewals or extensions hereof; and (2) require its subcontractors to obtain and keep in force during the terms of their respective engagements or contracts, the minimum insurance limits and coverage set forth below. The insurance coverage limits stated below are minimum coverage requirements, not limitations of liability, and shall not be construed in any way as Owner's acceptance of the responsibility of Contractor.

a. Commercial General Liability:

- **\$(See Appendix A)** per occurrence Combined Single Limits.
- **\$(See Appendix A)** General Aggregate.
- **\$(See Appendix A)** Products and Completed Operations Aggregate.
- **\$(See Appendix A)** Completed Operation-Products Liability

CGL ISO 1996 or later occurrence form including premises and operations coverage, products and completed operations, coverage for independent contractors, personal injury coverage and blanket contractual liability, contractors protective liability if Contractor subcontracts all or any portion of the work to be performed hereunder. Completed operations shall be maintained for a period of three (3) years following final completion for any construction, renovation, repair and maintenance service.

b. Workers' Compensation:

- Coverage A: Applicable federal or state requirements: statutory minimum.
- Coverage B: Employer's Liability:
 - Each accident: **\$(See Appendix A).**
 - Each employee – disease: **\$(See Appendix A).**
 - Policy limit - disease: **\$(See Appendix A).**

- Coverage C: Voluntary workers compensation insurance coverage for all employees not subject to the applicable workers compensation act or acts.

The workers' compensation policy shall also include U.S. longshoreman and harbors workers' compensation act coverage if any work to be performed hereunder shall be done over or within one hundred (100) feet of any body of water, or otherwise at the sole discretion of Owner. Contractor shall provide maritime (Jones Act) coverage if a boat or vessel of any type is used.

c. **Automotive Liability (including owned, hired, borrowed and non-ownership liability)**

- Bodily injury and property damage **\$(See Appendix A)** each occurrence Combined Single Limits.

d. **Umbrella Liability**

- **\$(See Appendix A)** each occurrence and annual aggregate in excess of employer's liability, General liability and Automotive liability (no more restrictive than underlying insurance).

e. **State Highway:** See Appendix A

2. The minimum liability limits required may be satisfied through the combination of the primary general liability, employers' liability, and automotive liability limits with an umbrella liability policy (with coverage no more restrictive than the underlying insurance) providing excess limits at least equal to or greater than the combined primary limits.
3. All commercial general liability including completed operations-products liability coverage and automotive liability insurance shall designate Owner, its parent, affiliates and subsidiaries, its directors, officers and employees as an additional insured. All such insurance should be primary and non-contributory, and is required to respond and pay prior to any other insurance or self-insurance available to Owner. In addition to the liability limits available, such insurance will pay on behalf of or will indemnify Owner for defense costs. Any other coverage available to Owner applies on a contingent and excess basis. Such insurance shall include appropriate clauses pursuant to which the insurance companies shall wave its rights of subrogation against Owner.
4. Contractor and any of its subcontractors shall furnish, prior to the start of work, certificates or adequate proof of the foregoing insurance including, if specifically requested by Owner, copies of the endorsements and insurance policies naming Owner as an additional insured, as provided herein. Current certificates of insurance shall be provided prior to the commencement of work and shall be maintained until termination of this Agreement. Contractor shall notify Owner in writing, at least thirty (30) calendar days prior to cancellation, or of a material change in any policy.

5. The certificate holder is included as an additional insured with respect to liability arising out of the named insured's operations performed on behalf of such certificate holder. A waiver of any subrogation endorsement must accompany a certificate of insurance and must include workers' compensation policies.
 6. Carriers providing coverage will be rated by A.M. Best with at least an A-rating and a financial size category of at least Class VII. Such cancellation or material alteration shall not relieve Contractor of its continuing obligation to maintain insurance coverage in accordance with this contract. Carriers shall be licensed in the state(s) where work is performed.
 7. If Contractor shall fail to procure and maintain such insurance, Owner, upon written notice, may, but shall not be required to, procure and maintain same, but at the expense of Contractor. In the alternative, Owner may declare a default hereunder and, unless such default is timely cured, terminate the Agreement. Unless and until the default is cured, neither Contractor nor its servants, employees or agents will be allowed to enter upon the Owner's premises.
- D. The policies of insurance so required by Paragraph 5.4 shall include as additional insureds the following parties:
1. **Kentucky American Water Company**
 2. **American Water Works Service Company, Inc.**
 3. **Hazen and Sawyer**

SC-5.06 Property Insurance – Builder's Risk Insurance

The Contractor shall bear all risks of all loss or damage to the materials and Work until the Work is finally accepted by the Owner, except that the Contractor may claim reimbursement under the Owner's builder's risk insurance policy as herein provided and limited. Owner will carry "All Risk" Builders Risk Insurance subject to deductibles, terms and conditions as stated in the policy and below. It is the obligation and responsibility of the Contractor to make appropriate claim to the insurance company for all losses claimed under the policy. Should any loss not be covered under this policy, in whole in or parts, the Contractor shall bear the loss. Any questions regarding coverages, limitation, exclusion, etc. contained in the policy shall be addressed by bidders prior to submittal of bids, to **Director, Risk Management, American Water, 1025 Laurel Oak Road, Voorhees, NJ 08043.**

Such insurance shall cover the full value of the cost of replacement to the Owner, less applicable deductibles, of all completed portions of the work to be performed throughout the entire time of construction. The deductibles on each separate and unrelated loss are: (1) \$25,000 on loss; (2) \$250,000 on loss caused by flood; (3) 5% of total insurable value for loss caused by earthquake. Owner will furnish to the Contractor evidence of the insurance coverage provided.

Such insurance shall not cover (1) damage to or loss of material or equipment furnished by either party which are damaged or lost due to carelessness or negligence on the part of the Contractor, or (2) damage to or loss of machinery, tools, equipment, or other property furnished by the Contractor whether or not used by the Contractor in

carrying out the terms of the Contract unless such machinery, tools, equipment or other property are specifically intended for permanent incorporation into the Contract work and are included in an approved application for payment.

SC-6 Contractor's Responsibilities

Add the following language immediately before paragraph 6.01 of the General Conditions:

SC-6.00 Final Design Phase

Final Design Phase: After the Contract Times commence to run, Contractor shall:

1. Consult with Engineer to understand Engineer's requirements for the Project and review available data.
2. Advise Engineer as to the necessity of Owner's providing or obtaining from others additional reports, data or services of the types provided in paragraph 8.05 and assist Engineer in obtaining such reports, data, or services. This shall include, but not be limited to, furnishing assistance to Engineer and Engineer's Consultant in preparation of the Geotechnical Baseline Report.
3. Obtain such additional geotechnical and related information, which it deems necessary for performance of the Work.
4. Upon completion of the Final Design Phase (60% design completion), including reconciliation of Owner comments, the Contractor shall present a detailed estimate of the Cost of the Work to the Engineer. The estimate shall be prepared and presented in general conformance with the Sixteen (16) Division Format of the Construction Specifications Institute (CSI). The estimate shall identify the following costs as applicable for each area of Work.
 - Direct Labor
 - Permanent Materials
 - Permanent Equipment
 - Subcontract Work
 - Allowances or Contingencies
 - Temporary Construction
 - Construction Equipment, Small Tools, Expenditures, etc.
 - Permits, Inspections & Testing
 - Utility Connections and Utility Usage
 - Miscellaneous

Upon review, comment and approval by Owner, this estimate will form the basis for the Target Cost for the project. With the exception of the purchase of long lead equipment or materials as recommended by Contractor and approved by Owner, Contractor shall not proceed with construction on the project until such time that the approved Target Cost is established and Owner has issued Construction Phase Notice to Proceed. At the completion of the Final Design Phase and upon issuance of purchase orders and subcontracts for all major materials, equipment and subcontracts the construction estimate shall be updated and submitted as the final construction cost estimate.

Throughout the Construction Phase the construction estimate shall be updated monthly to reflect the latest estimate or actual cost as applicable.

6.00.1 Contractor's Representatives on Design Team

Contractor shall appoint the same project manager to represent the Contractor from the Final Design Phase of the Project and through the Construction Phase. This individual shall have the authority to act on behalf of the Contractor, shall attend monthly meetings scheduled by Engineer and shall be an experienced employee of the Contractor having recent and direct experience in the construction of water treatment and distribution facilities of the type and size of this project.

The Engineer, with Owner's approval, shall have the right to reject or demand replacement of Contractor's representative at any time, with or without cause, solely at Engineer's discretion for objective or subjective reasons which Engineer may, but is not required to, disclose to the Contractor and Contractor shall not be entitled to an adjustment of the Contract Price or Contract Times for such replacement.

6.00.2 Contractor's Duties

Contractor shall perform the following duties:

- (a) Prepare and update the initial CPM Schedule as described in Division 1 -General Requirements, monitor the schedule and notify Engineer of any delays or schedule conflicts.
- (b) Make recommendations on construction feasibility, technology and economies. Propose construction alternatives to be studied by the Engineer and accurately predict the effects of those alternatives on the Project cost and schedule. Engineer must approve all proposed changes to the Contract Documents.
- (c) Carefully review, study and compare the Preliminary Contract Drawings and Specifications and report to the Engineer any errors, conflicts, ambiguities or discrepancies which Contractor may discover.
- (d) Continuously review the development of the Contract Drawings and Specifications and immediately notify Engineer of any impacts on the Contract Price and Contract Times and report to Engineer any errors, conflicts, ambiguities or discrepancies, which Contractor may discover.
- (e) Based on the CPM, recommend to the Engineer and Owner the purchase of long lead items and expedite their procurement to ensure their delivery by the required scheduled dates.
- (f) Attendance at design review meetings.

6.00.3 Documentation of Contractor's Duties

Within 20 days of the Notice to Proceed for the Final Design Phase, Contractor shall submit to Engineer, an initial report containing Contractor's findings resulting from the performance of Contractor's duties discussed in Section 6.01.2. This report shall be supplemented, revised and amended monthly to reflect Contractor's continued findings

and recommendations as well as Engineer's approval/rejection of recommendations. A final version of the report shall be issued by Contractor at least 30 days prior to Owner's issuance of a Notice to Proceed for the Construction Phase.

SC-6.01 Supervision and Superintendence

[Note to User: If the Project requires a project manager from the Contractor that should not be replaced except under extraordinary circumstances, the following may be used]:

Add the following paragraph immediately at the end of Paragraph 6.01.B.

The Contractor shall assign a project manager, acceptable to the Owner, who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

SC-6.03 Services, Materials and Equipment

Add the following after paragraph 6.03C of the General Conditions:

- D. Contractor shall direct purchase the major materials and equipment for the project. Materials and equipment to be furnished by subcontractors shall be submitted by Contractor to Owner and Engineer for review/comment prior to completion of the Final Design Phase.

SC-6.06 Concerning Subcontractors, Suppliers, and Others

Add the following paragraphs after Paragraph 6.06H.

- I. Contractor shall include a provision in all Subcontracts, Procurement contracts and Purchase Orders stating that by acceptance of the Subcontract, Procurement Contract or Purchase Order the Subcontractor or Supplier provides advanced consent to the assignment of the Subcontract, Procurement Contract or Purchase Order from the Contractor to the Owner if desired by the Owner. Under such assignment Owner will assume all benefits, rights and responsibilities of the Contractor.
- J. Bids for the SCADA system will only be accepted from vendors pre-qualified by the Owner.

Owner and Engineer reserve the right to review proposed bidders for the trades listed below before Contractor solicits pricing for Subcontracts, Procurement contracts and Purchase Orders:

- 1. Electrical Subcontractor**
- 2. Concrete Supplier**
- 3. Mechanical Subcontractor**

- K. Owner encourages Contractors to seek diverse subcontractors and suppliers (including but not limited to Women Business Enterprises (WBE's), Minority Business Enterprises (MBE's), and Disabled Veteran Business Enterprises (DVBE's)), while at the same time ensuring that the best combination of quality, service and price is provided in accordance with the highest ethical and

professional standards. The Owner recognizes the value of subcontractor and supplier diversity as a strategic business decision, and is committed to offer them an equal opportunity to compete for subcontracts to supply materials and services with all other suppliers and contractors in the competitive marketplace.

SC-6.08 Permits

A listing of the permit(s) known at the time of preparation of the Bid Documents to be required for the Project and the identification of the party responsible for obtaining such permit(s) is set forth in the attached Schedule SC 6.08. The Owner and Engineer will assist the Contractor as required by the Permitting Agency in obtaining all permits required to be obtained by the Contractor. The Contractor will assist the Owner as required by the Permitting Agency in obtaining the permits required to be obtained by the Owner. Owner will obtain and pay for all necessary permits which by Laws or Regulations must be obtained by the Owner. The Contractor will obtain and pay for all other permits, licenses and certificates of inspection. The Contractor will pay for all inspection costs and fees.

The Contractor and/or his Subcontractor(s) shall obtain, complete, seal and sign all applications required to obtain construction permits required by state and local government agencies. A copy of the electrician and plumber's current state and/or local license shall be delivered to the Owner.

When required by the local governing body, the electrician and plumber will execute a mechanical bond in the form approved by the local government.

All bonds, application forms and copies of licenses shall be delivered to the Owner so these documents may be submitted with the Owner's application for a building permit. The Contractor shall assist the Owner in preparing the building permit. The Owner will pay for the building permit.

**SCHEDULE SC-6.08
RICHMOND ROAD STATION FILTER BUILDING
Permits and Approvals**

Description	Approving Agency	Date Submitted	Status	Responsible Party	
				Owner	Contractor*
Division of Water Construction Permit	Kentucky Division of Water			X	
Site Plan Approval	LFUCG			X	
Building Permit	LFUCG			X	
Final Development Plan Approval	LFUCG			X	
Land Disturbance	LFUCG			X	
Demolition Permit	LFUCG			X	
Floodway Permitting	FEMA			X	
Stormwater and Sediment Control	KDOW			X	

*(Contractor to obtain, Owner to pay for permit fees)

SC-6.10 Sales Taxes

Add the following language after Paragraph 6.10.A of the General Conditions:

- B. Contractor's responsibility under Paragraph 6.10 and this Paragraph SC-6.10 to pay all such taxes shall: (i) include the obligations to pay any interest or penalties that may be assessed as a result of Contractor's late payment or failure to pay such taxes, and (ii) survive final payment, completion and acceptance of the Work and termination or completion of the Agreement.
- C. Owner may be exempt from **KENTUCKY** sales and use taxes on certain services, machinery, equipment, material, and apparatus, tools or supplies in connection with the Work.
- D. Without altering Contractor's full responsibility to properly determine and pay such taxes, the Owner will provide the Contractor, for use at Contractor's risk, a copy of any Guidelines developed by the Owner with respect to sales and use tax exemptions that may be available in whole or in part in the state in which the Project is located. A copy of the Guidelines for the state in which the Project is located is included in **Appendix C** attached to the Supplementary Conditions. Such Guidelines are not Contract Documents. They may not necessarily reflect the current status of state tax exemptions or current status interpretations of these exemptions.
- E. Contractor shall indemnify and hold harmless and defend Owner from and against all claims, losses, expenses, damages and liability relating to: (i) Contractor's nonpayment of any sales, consumer, use and other similar taxes or interest or penalties required to be paid by Contractor, or (ii) Contractor's failure to utilize or implement any available sales and use tax exemption or Contractor's failure to obtain any necessary exemption certificate or other required exemption evidence.

- F. Contractor shall furnish evidence satisfactory to Owner that Contractor has paid all sales, consumer, use and other similar taxes required to be paid by Contractor. Contractor shall also furnish to Owner with Contractor's applications for final payment a schedule of all items incorporated in the Work that Contractor has determined are entitled to sales and use taxes exemption and for which no sales and use taxes were paid by Contractor. Owner reserves the right to audit the Contractor's compliance with applicable sales and use taxes requirements prior to release of retainage and final payment. If Owner disagrees with any of Contractor's determinations or exemptions or otherwise has reason to believe that Contractor has not paid all applicable sales and use taxes, Owner shall be entitled to withhold the amount of sales and use taxes Owner believes Owner may be potentially liable for as a result of Contractor's nonpayment until: (i) Contractor presents evidence satisfactory to Owner that Contractor has paid the taxes in question or that the items in question are exempt and (ii) all statutes of limitation for the applicable taxing authority to bring an action against Owner for payment of the taxes in question have expired, whichever first occurs.
- G. In addition to Owner's other rights and remedies under this Paragraph SC-6.10, Owner shall be entitled to set off against monies otherwise due Contractor hereunder the amount of any sales and use tax, or any other tax, which Owner is required to pay be reason of Contractor's failure to comply with Paragraph 6.10 of the General Conditions.

SC-9.01 Engineer's Status During Construction

Add a new paragraph immediately after Paragraph 9.01C

- D. Owner hereby identifies the following, subject to a full reservation of Owner's rights under GC-9.01:
1. Engineer: **Hazen and Sawyer**
 2. Owner-affiliated entities or independent engineers, consultants, or managers retained by Owner to undertake some of all of Engineer's or Owner's authority, duties, or responsibilities under the Contract Documents:
 - **Engineer's Consultant: Hazen and Sawyer
4011 Westchase Boulevard, Suite 500
Raleigh, NC 27607**

SC-9.03 Project Representative

Add a new paragraph immediately after Paragraph 9.03.A

- B. The duties, responsibilities and limitations of authority of the Resident Project Representative shall be as follows:
1. General

The Resident Project Representative (RPR) is Engineer's agent at the site, will act as directed by and under the supervision of Engineer

2. Duties and Responsibilities of RPR

- a. Conferences and Meetings: Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings.
- b. Liaison: Serve as Engineer's liaison with Contractor, working principally through Contractor's superintendent and assist in understanding the intent of the Contract Documents; and assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-site operations.
- c. Shop Drawings and Samples: Advise Engineer and Contractor of the commencement of any Work requiring a Shop Drawing or sample if the submittal has not been approved by Engineer.
- d. Review of Work, Rejection of Defective Work, Inspections and Tests:
 - (1) Conduct on-site observations of the Work in progress to assist Engineer in determining if the Work is in general proceeding in accordance with the Contract Documents.
 - (2) Report to Engineer whenever RPR believes that any Work is unsatisfactory, faulty or defective or does not conform to the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made.
 - (3) Verify that tests, equipment and systems startups and operating and maintenance training are conducted in the presence of appropriate personnel, and that Contractor maintains adequate records thereof.
- e. Interpretation of Contract Documents: Report to Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to Contractor clarifications and interpretations as issued by Engineer.
- f. Modifications: Consider and evaluate Contractor's suggestions for modifications in Drawings or Specifications and report with RPR's recommendations to Engineer. Transmit to Contractor decisions as issued by Engineer.
- g. Payment Requests: Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the schedule of values, Work completed and materials and equipment delivered at the site but not incorporated in the Work.
- h. Completion:
 - (1) Before Engineer issues a Certificate of Substantial Completion, submit to Contractor a list of observed items requiring completion or correction.

- (2) Conduct final inspection in the company of Engineer, Owner and Contractor and prepare a final list of items to be completed or corrected.
- (3) Observe that all items on final list have been completed or corrected and make recommendations to Engineer concerning acceptance.

3. Limitations of Authority

Resident Project Representative:

- a. Shall not authorize any deviation from the Contract Documents or substitution of materials or equipment, unless authorized by Engineer.
- b. Shall not exceed limitations of Engineer's authority as set forth in the Agreement or the Contract Documents.
- c. Shall not undertake any of the responsibilities of Contractor, subcontractors or Contractor's superintendent.
- e. Shall not issue directions relative to, or assume control over, any aspect of the means, methods or techniques of construction unless such directions or control are specifically required by the Contract Documents.

SC-11.01 Cost of the Work

Add the following language immediately after paragraph 11.01 of the General Conditions:

The Cost of the Work shall include lump sum amounts for Supervision and Superintendence of Construction (including temporary facilities).

The lump sum amount for Supervision and Superintendence of Construction shall include the responsibilities described in General Conditions Article 6.00, 6.01.A and 6.01.B as amended by the supplemental conditions, and the duties described in General Requirements, Section 1000, Part 3.02 and Section 1500, Temporary Construction Facilities paragraphs 1.01 Water Supply; 1.02 Temporary Heat/Air Conditioning, 1.03 Electrical Supply - to include temporary electric for site office facilities and that needed to perform construction but not to include permanent power supply and use for testing and start-up of plant facilities and equipment; 1.04 Temporary Lighting-to include temporary lighting of site offices and exterior security lighting but not to include temporary lighting of construction areas; 1.07 Parking - to include parking for supervisory personnel at the site offices but not to include parking areas for construction personnel; 1.09 Sanitary Facilities and 1.10 Field Offices. This lump sum shall cover all project supervisory, administrative and engineering personnel costs including salary, payroll labor burden, vehicles, relocation, travel and living expenses. Also included is field office facility complex costs including trailers, office supplies, office equipment, telephone, postage, blueprinting, utilities and miscellaneous. General site facilities furnished by Contractor for use by all contractors and subcontractors shall also be included in this lump sum.

Contractor Self Performed Work: The Contractor is eligible to perform Work with its own forces either through a negotiated lump sum price or through successful bidding

in competition with qualified subcontractors. No later than completion of the Final Design Phase, the Contractor shall notify Owner and Engineer of specific Work they desire to perform with their own forces either through a negotiated price or as the result of competitive bidding. Contractor shall provide justification for Work desired to be performed through a negotiated price. If Owner and Engineer agree with the justification, Contractor shall provide a firm Lump Sum Bid with a detailed cost breakdown as backup.

If Owner accepts the bid, the agreed to price will constitute a lump sum cost to be included in the Cost of the Work. The Contractor is responsible for completion of the specified Work in accordance with the Contract Documents including warranty provisions for the price submitted. If Owner rejects the Contractor's bid to self perform specific Work, this Work shall be competitively bid to qualified Subcontractors including the Contractor if desired and approved by Owner.

Add the following language at the end of paragraph 11.01.A.2:

To the fullest extent practical, the Contractor shall purchase all permanent materials and equipment through documented competitive bidding. Materials and equipment not purchased through competitive bidding shall have prior approval from the Owner.

Add the following language at the end of paragraph 11.01.A.3:

To the fullest extent practical, the Contractor shall award all subcontracts through documented competitive bidding. Subcontracts not awarded through competitive bidding shall have prior approval from the Owner.

Add the following language at the end of paragraph 11.01.A.4:

The cost of special consultants shall only be included in the Cost of the Work if they have been authorized by the Owner prior to the furnishing of service.

Add the following language at the end of paragraph 11.01.A.5.c:

The Equipment rental rates to be paid for under a Cost of the Work basis are to be no higher than those prevailing in the locality of the project and shall not exceed 80% of the monthly rental rate determined through proper application of the Equipment Rental Rate Blue Book published by K-III Directory. Monthly operating costs shall be determined by multiplying the Blue Book estimated hourly operations cost by 120 hours. Prior to using construction equipment owned by Contractor or any subsidiary company, provide to Owner and Engineer a comparison of equipment rental costs between using Contractor's equipment versus equipment rented from others.

SC-12.01 Change of Contract Price

Add the following language immediately before paragraph 12.01 of the General Conditions:

Contractor's Fee and provisions for adjustment are provided in the Agreement. In Article 12.01 of the General Conditions, delete all references to the Contractor's fee or allowances for overhead and profit. Fee provisions of Article 12 of the General

Conditions are applicable to subcontractors performing Work on a Cost of the Work basis per Paragraph 12.01.C.2.

SC-14.07 Final Application for Payment

Add the following new paragraph immediately after Paragraph 14.07.A.2:

Contractor, Subcontractors and Suppliers shall execute and deliver to Owner their release of liens on forms supplied by Owner. Blank forms are included in **Appendix B** of these Supplementary Conditions.

SC-16.01 Dispute Resolution

Add the following new paragraph immediately after Paragraph 16.01.E:

F. Covenant of Good Faith and Fair Dealing:

1. This contract imposes an obligation of good faith and fair dealing in its performance and enforcement. The Contractor, Engineer and Owner, with a positive commitment to honesty and integrity, agree to the following mutual duties:
 - a. Each will function within the laws and statues applicable to their duties and responsibilities.
 - b. Each will assist in the other's performance.
 - c. Each will avoid hindering the other's performance.
 - d. Each will proceed to fulfill its obligations diligently.
 - e. Each will cooperate in the common endeavor of the contract.

G. Voluntary Partnering:

1. The Owner intends to encourage the foundation of a cohesive partnership process with the Contractor and its principal subcontractors and suppliers. The partnership process will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals. The objectives of the process will be to achieve effective and efficient performance of the Work within the Contract Price and Contract Times, all in accordance with the contract requirements.
2. This partnership will be bilateral in make-up and participation will be totally voluntary. To implement this partner initiative after the Contract Times start to run, the Contractor and Owner will initiate a partnering development seminar/team building conference in accordance with paragraph 2.06 of the General Conditions.
3. The establishment of a partnering charter on the project will not change the legal relationship of the parties to the Contract nor relieve either party from any of the terms of the contract.

Limits of Liability Insurance

SC-5.04 Contractor's Liability Insurance is hereby supplemented to include the following:

The limits of liability for insurance required by paragraph GC-5.04 and paragraph SC-5.04 are shown on the attached ACORD sample Certificate of Insurance and as follows:

Insurance Requirements.

1. Commercial General Liability:

- \$1,000,000 per occurrence Combined Single Limits
- \$1,000,000 General Aggregate
- \$1,000,000 Products and Completed Operations Aggregate
- \$1,000,000 Completed Operations-Product Liability

2. Workers Compensation:

- Coverage A: Applicable federal or state requirements: statutory minimum
- Coverage B: Employer's Liability:
 - Each Accident: \$1,000,000
 - Each Employee-disease: \$1,000,000
 - Policy Limit-disease: \$1,000,000

3. Automotive Liability

- Bodily injury and property damage \$1,000,000 each occurrence combined single limits

4. Umbrella Liability

- \$9,000,000 each occurrence and annual aggregate in excess of Employer's Liability, General Liability and Automotive Liability.

Article I.	A	CERTIFICATE OF INSURANCE	ISSUE DATE:		
PRODUCER		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. COMPANIES AFFORDING COVERAGE			
VENDOR'S INSURANCE BROKER AND ADDRESS					
INSURED		COMPANY LETTER A. ABC INSURANCE COMPANY			
VENDOR/Contractor/TRADE I.C, II.A. Address		COMPANY LETTER B. XXX INSURANCE COMPANY			
		COMPANY LETTER C. YYY INSURANCE COMPANY			
		COMPANY LETTER D.			
		COMPANY LETTER E			
COVERAGES					
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.					
CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A.	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR. <input type="checkbox"/> Owner'S & Contractor'S PROT. <input checked="" type="checkbox"/> PER PROJECT AGG. <input checked="" type="checkbox"/> CGL FORM #	CGL1234	1/1/2006	1/1/2007	GENERAL AGGREGATE PRODUCTS-COMP/OP AGG. \$ 1,000,000 PERSONAL & ADV. INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one Fire) \$ 1,000,000 MED. EXPENSE (Any one person) \$ 300,000 \$ 10,000
A.	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> COMP DED \$500 <input checked="" type="checkbox"/> NON-OWNED AUTOS	AL5678	1/1/2006	1/1/2007	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per Person) \$ BODILY INJURY (Per Accident) \$ PROPERTY DAMAGE \$
B.	EXCESS LIABILITY <input checked="" type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM	XS 9876	1/1/2006	1/1/2007	EACH OCCURRENCE AGGREGATE \$9,000,000 \$9,000,000
A	WORKER'S COMPENSATION AND EMPLOYERS LIABILITY	WC 5432	1/1/2006	1/1/2007	<input checked="" type="checkbox"/> STATUTORY LIMITS EACH ACCIDENT \$1,000,000 DISEASE-POLICY LIMIT \$1,000,000 DISEASE-EACH EMPLOYEE \$1,000,000
	OTHER				Personal Property: \$250,000 Deductible:
DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS (Reference Project Location or Contract No.) Certificate holder is included as Additional Insured, except for workers compensation, with respect to liability arising out of the named insured's operations as required by written contract. Any coverage afforded to the Additional Insured shall apply as primary and not excess to any other insurance or self insurance available to Additional Insured. Waiver of Subrogation shall apply to all insurance.					
CERTIFICATE HOLDER			CANCELLATION		
New Jersey American Water 1025 Laurel Oak Road Voorhess, NJ 08043			SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, _____ AUTHORIZED REPRESENTATIVE		
ACORD 25-S (7/90)			ACORD CORPORATION 1990		

RELEASE OF LIENS

WHEREAS, we, the undersigned, have installed or furnished labor, materials and/or equipment for the installation of the Project entitled **Jacobson Reservoir, Richmond Road Station, and Kentucky River Station 1 Chemical Improvements Project**, installed pursuant to a written agreement dated **Day and Month, Year**, between the **Kentucky American Water Company**, having an office at **2300 Richmond Road, Lexington, Kentucky 40502**, hereinafter called Owner and _____, having an office at _____, hereinafter called Contractor, which said facilities are owned by the Owner and described and located as follows:

Kentucky American Water Company	
Richmond Road Station 2300 Richmond Road Lexington, KY 40502	Kentucky River Station No. 1 6300 Cedar Creek Lane Lexington, KY 40515
Jacobson Reservoir 314 Buckhorn Drive Lexington, KY 40515	

WHEREAS, we, the undersigned, have agreed to release any and all claims and liens which we have, or might have, against the Owner, or said facilities by reason of the labor, materials and equipment furnished by us in connection with said installation;

NOW THESE PRESENTS WITNESS that we the undersigned, in consideration of the premises, and of the sum of One Dollar (\$1.00) in hand paid by the said Owner, at and before the sealing and delivery hereof, the receipt whereof we do hereby acknowledge, have remised, released and forever quitclaimed, and by these presents do remise, release and forever quitclaim, unto the said Owner, its successors and assigns, any and all manner of liens, claims and demands whatsoever which we now have, or might or could have, on or against the said facilities, or the owner thereof, for work done, or for equipment or materials furnished in connection with the installation thereof. It is the intent of this release that the Owner, its successors and assigns shall and may hold, have, use and enjoy the said facilities free and discharged from all liens and demands whatsoever which we now have, or might or could have against the same if these presents had not been made.

IN WITNESS WHEREOF, we have hereunto set our hand and seal the day written opposite our signature.

Company Name _____ (SEAL)
By _____
Title _____
Dated _____, 20____

Sworn to and subscribed before me, a Notary Public,
this _____ day of _____, 20____.

Notary Public (SEAL)

I, _____, duly authorized representative of
_____, designated as Contractor, do hereby state that
the parties whose names are signed to the attached releases, pages 1 through _____, are all of the parties
who have furnished labor, materials or equipment in connection with the construction of the facilities
mentioned above; excepting only such materials as may have been furnished by the Owner.

Dated: _____, 20____

Representative's Signature

Sworn to and subscribed before me, a Notary Public,
this _____ day of _____, 20____.

Notary Public (SEAL)

RELEASE OF LIENS

WHEREAS, we, the undersigned, have installed or furnished labor, materials and/or equipment for the installation of the Project entitled **Richmond Road Station Filter Building**, installed pursuant to a written agreement dated **Day and Month, Year**, between the **Kentucky American Water Company**, having an office at **2300 Richmond Road, Lexington, KY 40502**, hereinafter called Owner and _____, having an office at _____, hereinafter called Contractor, which said facilities are owned by the Owner and described and located as follows:

Kentucky American Water Company	
Richmond Road Station	Kentucky River Station No. 1
2300 Richmond Road	6300 Cedar Creek Lane
Lexington, KY 40502	Lexington, KY 40515
Jacobson Reservoir	
314 Buckhorn Drive	
Lexington, KY 40515	

WHEREAS, we, the undersigned, have agreed to release any and all claims and liens which we have, or might have, against the Owner or said facilities by reason of the labor, materials and equipment furnished by us in connection with said installation;

NOW THESE PRESENTS WITNESS that we, the undersigned, in consideration of the premises, and of the sum of One Dollar (\$1.00) in hand paid by the said Owner, at and before the sealing and delivery hereof, the receipt whereof we, do hereby acknowledge, have remised, released and forever quitclaimed, and by these presents do remise, release and forever quitclaim, unto the said Owner, its successors and assigns, any and all manner of liens, claims and demand whatsoever which we now have, or might or could have, on or against the said facilities, or the owner thereof, for work done, or for equipment or materials furnished in connection with the installation thereof. It is the intent of this release that the Owner, its successors and assigns shall and may hold, have, use and enjoy the said facilities free and discharged from all liens and demands whatsoever which we now have, or might or could have against the same if these presents had not been made. And we do further certify and acknowledge, that we have received of and from the said Contractor, payment in full on account of labor done or materials or equipment furnished for or in connection with said facilities.

IN WITNESS WHEREOF, we have hereunto set our hand and seal the day written opposite our signature.

Company Name _____ (SEAL)
By _____
Title _____
Dated _____, 20__

Sworn to and subscribed before me, a Notary Public,
this _____ day of _____, 20__.

(SEAL)
Notary Public
(Subcontractors and Suppliers)

GUIDELINES FOR KENTUCKY CONTRACTORS

USE OF THIS GUIDELINE:

This guideline may not be complete or current as of the date of the Contract or Contractor's performance of the Contract. State laws are subject to change. This guideline does not alter the Contractor's obligations under the Contract to properly determine and pay applicable taxes.

GENERAL RULE:

Contractors' purchases of machinery, apparatus or equipment used or consumed directly and primarily in the production, generation, transmission or distribution of water for sale are not taxable.

INTERPRETATION OF GENERAL RULE:

The machinery, apparatus or equipment must be "used or consumed directly and primarily" in the production, generation, or distribution of water to be exempt from tax. Machinery, apparatus or equipment is considered to be "used directly" in production only when it is used to initiate, sustain or terminate the transformation of raw materials into the finished product. In determining whether something is used directly, consideration is given to the physical proximity of the property in question to the production process, the proximity of time of the property's use to the time and use of other property used before and after it in the production process, and the active causal relationship between the use of the property in question and the production of the water. Property is considered to be "used primarily" when it is used more that 50% of the time directly in the exempt activity.

SPECIFIC ITEMS:

Real Estate and Installations: Machinery, apparatus or equipment which is installed to become a part of real estate qualifies for the exemption if it is used or consumed directly and primarily in the production, generation or distribution of water.

Maintenance Items: Generally, maintenance charges are taxable. Tools or supplies used, but not installed, are always taxable whether or not they are used in connection with exempt machinery, equipment or apparatus.

Space Heating, Cooling, Ventilation, and Illumination: Property, including machinery and equipment, fuel or power used to ventilate buildings, lighting for general illumination, air conditioning and other space cooling, space heating and similar property, is subject to tax unless it can be proved that the use of such property bears an active causal relationship to the production, delivery or rendition of the utility service and its other uses are incidental.

Safety and Fire Prevention: Property used to prevent or fight fires, and equipment and supplies used for such programs as safety, accident prevention, or fire prevention, are subject to tax even though such equipment or property is required by law.

Non-Operational Activities: Property used in managerial, sales or other non-operational activities is not directly used in the production, delivery or rendition of the public utility service and, therefore, is taxable.

Repair Parts: Repair and replacement parts for exempt machinery and equipment are not taxable if they have a useful life of more than one year. Parts with a useful life of one year or less always are taxable.

PROCEDURE FOR CLAIMING EXEMPTION:

In order to claim the exemption, a contractor should provide the seller with an Exempt Use Certificate (ST-4).

SECTION 01090REFERENCE STANDARDSPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. Wherever reference is made to any published standards, codes, or standard specifications, it shall mean the latest standard code, specification, or tentative specification of the technical society, organization, or body referred to, which is in effect at the date of invitation for Bids.
- B. All materials, products, and procedures used or incorporated in the work shall be in strict conformance with applicable codes, regulations, specifications, and standards.
- C. A partial listing of codes, regulations, specifications, and standards includes the following:

Air Conditioning and Refrigeration Institute (ARI)

Air Diffusion Council (ADC)

Air Moving and Conditioning Association (AMCA)

The Aluminum Association (AA)

American Architectural Manufacturers Association (AAMA)

American Concrete Institute (ACI)

American Gear Manufacturers Association (AGMA)

American Hot Dip Galvanizers Association (AHDGA)

American Institute of Steel Construction, Inc. (AISC)

American Iron and Steel Institute (AISI)

American National Standards Institute (ANSI)

American Society of Civil Engineers (ASCE)

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)

American Society of Mechanical Engineers (ASME)

American Society for Testing and Materials (ASTM)

American Standards Association (ASA)

American Water Works Association (AWWA)
American Welding Society (AWS)
American Wood-Preserver's Association (AWPA)
Anti-Friction Bearing Manufacturers Association (AFBMA)
Building Officials and Code Administrators (BOCA)
Conveyor Equipment Manufacturers Association (CEMA)
Consumer Product Safety Commission (CPSC)
Factory Mutual (FM)
Federal Specifications
Instrument Society of America (ISA)
Institute of Electrical and Electronics Engineers (IEEE)
National and Local Fire Codes
Lightning Protection Institute (LPI)
National Electrical Code (NEC)
National Electrical Manufacturer's Association (NEMA)
National Electrical Safety Code (NESC)
National Electrical Testing Association (NETA)
National Fire Protection Association (NFPA)
Regulations and Standards of the Occupational Safety and Health Act (OSHA)
Southern Building Code Congress International, Inc. (SBCCI)
Sheet Metal & Air Conditioning Contractors National Association (SMACNA)
Standard Building Code
Standard Mechanical Code
Standard Plumbing Code
Uniform Building Code (UBC)
Underwriters Laboratories Inc. (UL)

- D. Construction Manager at Risk shall, when required, furnish evidence satisfactory to the Engineer that materials and methods are in accordance with such standards where so specified.
- E. In the event any questions arise as to the application of these standards or codes, copies shall be supplied on-site by the Construction Manager at Risk.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01200PROJECT MEETINGSPART 1 -- GENERAL

1.01 PRE-BID MEETING

- A. A pre-bid meeting will be held at the time and place to be designated in the Instructions to Bidders.
- B. The Engineer will be available to discuss the project and answer pertinent questions. No oral interpretation will be made as to the meaning of the Documents. Interpretation, if deemed necessary by the Engineer, will be in the form of an Addendum to the Contract Documents.

1.02 PRECONSTRUCTION MEETING

- A. A preconstruction meeting will be held after Award of Contract, but prior to starting work at the site.
- B. Attendance:
 - 1. Owner
 - 2. Engineer
 - 3. Construction Manager at Risk
 - 4. Major subcontractors
 - 5. Safety representative
 - 6. Representatives of governmental or other regulatory agencies.
- C. Minimum Agenda:
 - 1. Tentative construction schedule
 - 2. Critical work sequencing
 - 3. Designation of responsible personnel
 - 4. Processing of Field Decisions and Change Orders
 - 5. Adequacy of distribution of Contract Documents
 - 6. Submittal of Shop Drawings and samples

7. Procedures for maintaining record documents
8. Use of site and Owner's requirements
9. Major equipment deliveries and priorities
10. Safety and first aid procedures
11. Security procedures
12. Housekeeping procedures
13. Processing of Partial Payment Requests
14. General regard for community relations

1.03 PROGRESS MEETING

- A. Progress meetings will be held monthly at the Engineer's Field Office during the performance of the work of this Contract. Additional meetings may be called as progress of work dictates.
- B. Engineer will preside at meetings and record minutes of proceedings and decisions. Engineer will distribute copies of minutes to participants.
- C. Attendance:
 1. Engineer
 2. Construction Manager at Risk
 3. Subcontractors, only with Engineer's approval or request, as pertinent to the agenda
- D. Minimum Agenda:
 1. Review and approve minutes of previous meetings.
 2. Review progress of Work since last meeting.
 3. Review proposed 30-60 day construction schedule.
 4. Note and identify problems which impede planned progress.
 5. Develop corrective measures and procedures to regain planned schedule.
 6. Revise construction schedule as indicated and plan progress during next work period.
 7. Maintaining of quality and work standards.
 8. Complete other current business.

9. Schedule next progress meeting.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01300SUBMITTALSPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Progress Schedule

1. Within thirty (30) days after issuance of the Notice to Proceed, the Construction Manager at Risk shall prepare and submit five (5) copies of his proposed progress schedule to the Engineer for review and approval.
2. If so required, the schedule shall be revised until it is approved by the Engineer.
3. Schedule shall be updated monthly, depicting progress to the last day of the month and five (5) copies submitted to the Engineer not later than the fifth day of the month, and prior to the application for progress payment. Failure to provide monthly schedule updates will be grounds for the Engineer or Owner to withhold progress payment approval.
4. Schedule shall be prepared in the form of a horizontal bar chart showing in detail the proposed sequence of the work and identifying construction activities for each structure and for each portion of work.
5. Schedule shall be time scaled, identifying the first day of each week. The Schedule shall be provided with estimated dates for Early Start, Early Finish, Late Start and Late Finish. The work shall be scheduled to complete the Project within the Contract time. The Late Finish date shall equal the Contract Completion Date.
6. Schedule shall show duration (number of days) and float for each activity. Float shall be defined as the measure of leeway in starting or completing a scheduled activity without adversely affecting the project completion date established by the Contract Documents.
7. Updated schedule shall show all changes since the previous submittal.
8. All revisions to the schedule must have the prior approval of the Engineer.

B. Equipment and Material Orders Schedule

1. Construction Manager at Risk shall prepare and submit five (5) copies of his schedule of principal items of equipment and materials to be purchased to the Engineer for review and approval.
2. If so required, the schedule shall be revised until it is approved by the Engineer.
3. Schedule shall be updated monthly and five (5) copies submitted to the Engineer not later than the fifth day of every month with the application for progress payment.

4. The updated schedule shall be based on the Progress Schedule developed under the requirements of Paragraph 1.01(A) of this Section.
5. Schedule shall be in tabular form with appropriate spaces to insert the following information for principal items of equipment and materials:
 - a. Dates on which Shop Drawings are requested and received from the manufacturer.
 - b. Dates on which certification is received from the manufacturer and transmitted to the Engineer.
 - c. Dates on which Shop Drawings are submitted to the Engineer and returned by the Engineer for revision.
 - d. Dates on which Shop Drawings are revised by manufacturer and resubmitted to the Engineer.
 - e. Date on which Shop Drawings are returned by Engineer annotated either "Furnish as Submitted" or "Furnish as Corrected".
 - f. Date on which accepted Shop Drawings are transmitted to manufacturer.
 - g. Date of manufacturer's scheduled delivery.
 - h. Date on which delivery is actually made.

C. Working Drawings

1. Within thirty (30) days after the Notice to Proceed, each prime Contractor shall prepare and submit five (5) copies of his preliminary schedule of Working Drawing submittals to the Engineer for review and approval. If so required, the schedule shall be revised until it is approved by the Engineer.
2. Working Drawings include, but are not limited to, Shop Drawings, layout drawings in plan and elevation, installation drawings, elementary wiring diagrams, interconnecting wiring diagrams, manufacturer's data, etc. Construction Manager at Risk shall be responsible for securing all of the information, details, dimensions, Drawings, etc., necessary to prepare the Working Drawings required and necessary under this Contract and to fulfill all other requirements of his Contract. Construction Manager at Risk shall secure such information, details, Drawings, etc., from all possible sources including the Drawings, Working Drawings prepared by subcontractors, Engineers, suppliers, etc.
3. Working Drawings shall accurately and clearly present the following:
 - a. All working and installation dimensions.
 - b. Arrangement and sectional views.

- c. Units of equipment in the proposed positions for installation, details of required attachments and connections, and dimensioned locations between units and in relation to the structures.
 - d. Necessary details and information for making connections between the various trades including, but not limited to, power supplies and interconnecting wiring between units, accessories, appurtenances, etc.
4. In the event that the Engineer is required to provide additional engineering services as a result of a substitution of materials or equipment by the Construction Manager at Risk, the additional services will be provided in accordance with Section 01010 - Summary of Work, and will be covered in supplementary or revised Drawings which will be issued to the Construction Manager at Risk. All changes indicated that are necessary to accommodate the equipment and appurtenances shall be incorporated into the Working Drawings submitted to the Engineer.
5. Working Drawings specifically prepared for this Project shall be on approved reproducible material sheets of the same size as the Drawings. Working Drawings shall conform to recognized drafting standards and be neat, legible and drawn to a large enough scale to show in detail the required information.
6. The Drawings are used for engineering and general arrangement purposes only and are not to be used for Working Drawings.
7. Shop Drawings
 - a. Construction Manager at Risk shall submit for review by the Engineer Shop Drawings for all fabricated work and for all manufactured items required to be furnished by the Contract Documents.
 - b. Structural and all other layout Drawings prepared specifically for the Project shall have a plan scale of not less than 1/4-inch = 1 foot.
 - c. Where manufacturer's publications in the form of catalogs, brochures, illustrations or other data sheets are submitted in lieu of prepared Shop Drawings, such submittals shall specifically indicate the item for which approval is requested. Identification of items shall be made in ink, and submittals showing only general information are not acceptable.
8. Layout and Installation Drawings
 - a. Construction Manager at Risk shall prepare and submit for review by the Engineer layout and installation drawings for all pipes, valves, fittings, sewers, drains, heating and ventilation ducts, all electrical, heating, ventilating and other conduits, plumbing lines, electrical cable trays, lighting fixture layouts, and circuiting, instrumentation, interconnection wiring diagrams, communications, power supply, alarm circuits, etc., under this Contract. The final dimensions, elevation, location, etc., of pipe, valves, fittings, sewers, ducts, conduits, electrical cable trays, equipment, etc., may depend upon the dimensions of equipment and valves to be furnished by the Construction Manager at Risk.

- b. Layout and installation drawings are required for both interior and exterior piping, valves, fittings, sewers, drains, heating and ventilation ducts, conduits, plumbing lines, electrical cable trays, etc.
 - c. Layout and installation Drawings shall show connections to structures, equipment, sleeves, valves, fittings, etc.
 - d. Drawings shall show the location and type of all supports, hangers, foundations, etc., and the required clearances to operate valves, equipment, etc.
 - e. The Drawings for pipes, ducts, conduits, etc., shall show all 3-inch and larger electrical conduits and pressure piping, electrical cable trays, heating and ventilation ducts or pipes, structure, manholes or any other feature within four (4) feet (measured as the clear dimension) from the pipe duct, conduit, etc., for which the profile is drawn.
9. Construction Manager at Risk Responsibilities
- a. All submittals from subcontractors, manufacturers or suppliers shall be sent directly to the Construction Manager at Risk for checking. Construction Manager at Risk shall thoroughly check all Drawings for accuracy and conformance to the intent of the Contract Documents. Drawings found to be inaccurate or otherwise in error shall be returned to the subcontractors, manufacturers, or suppliers by the Construction Manager at Risk for correction before submitting them to the Engineer.
 - b. All submittals shall be bound, dated, properly labeled and consecutively numbered. Information on the label shall indicate Specification Section, Drawing number, subcontractor's, manufacturer's or supplier's name and the name or type of item the submittal covers. Each part of a submittal shall be marked and tabulated.
 - c. Working Drawings shall be submitted as a single complete package including all associated drawings relating to a complete assembly of the various parts necessary for a complete unit or system.
 - d. Shop Drawings shall be submitted as a single complete package for any operating system and shall include all items of equipment and any mechanical units involved or necessary for the functioning of such system. Where applicable, the submittal shall include elementary wiring diagrams showing circuit functioning and necessary interconnection wiring diagrams for construction.
 - e. ALL SUBMITTALS SHALL BE THOROUGHLY CHECKED BY THE CONSTRUCTION MANAGER AT RISK FOR ACCURACY AND CONFORMANCE TO THE INTENT OF THE CONTRACT DOCUMENTS BEFORE BEING SUBMITTED TO THE ENGINEER AND SHALL BEAR THE CONSTRUCTION MANAGER AT RISK'S STAMP OF APPROVAL CERTIFYING THAT THEY HAVE BEEN SO CHECKED. SUBMITTALS WITHOUT THE CONSTRUCTION MANAGER AT RISK'S STAMP OF

APPROVAL WILL NOT BE REVIEWED BY THE ENGINEER AND WILL BE RETURNED TO THE CONSTRUCTION MANAGER AT RISK.

- f. If the submittals contain any departures from the Contract Documents, specific mention thereof shall be made in the Construction Manager at Risk's letter of transmittal. Otherwise, the review of such submittals shall not constitute approval of the departure.
- g. No materials or equipment shall be ordered, fabricated, shipped or any work performed until the Engineer returns to the Construction Manager at Risk the submittals, herein required, annotated "Furnish as Submitted", "Furnish as Corrected", or "Furnish as Corrected – Confirm." If a submittal is returned "Furnish as Corrected – Confirm" the portions of work covered by the submittal that require confirmation by the Engineer shall not be ordered, fabricated, shipped, or any work performed until those portions are approved in a subsequent submittal either "Furnish as Submitted" or "Furnish as Corrected".
- h. Where errors, deviations, and/or omissions are discovered at a later date in any of the submittals, the Engineer's prior review of the submittals does not relieve the Construction Manager at Risk of the responsibility for correcting all errors, deviations, and/or omissions.

10. Procedure for Review

- a. Submittals shall be transmitted in sufficient time to allow the Engineer at least thirty (30) working days for review and processing.
- b. Construction Manager at Risk shall transmit five (5) copies of all technical data or drawing to be reviewed.
- c. Submittal shall be accompanied by a letter of transmittal containing date, project title, Construction Manager at Risk's name, number and titles of submittals, a list of relevant specification sections, notification of departures from any Contract requirement, and any other pertinent data to facilitate review.
- d. Submittals will be annotated by the Engineer in one of the following ways:
 - "Furnish as Submitted" (FAS) - no exceptions are taken
 - "Furnish as Corrected" (FAC) - minor corrections are noted and shall be made.
 - "Furnish as Corrected – Confirm" (FACC) - some corrections are noted and a partial resubmittal or additional information are required as specifically requested.
 - "Revise and Resubmit" (R&R) - major corrections are noted and a full resubmittal is required.
 - "For Information Only – Not Reviewed" (FIO) – submittal was received and was distributed for record purposes without review.

- e. If a submittal is satisfactory to the Engineer in full or in part, the Engineer will annotate the submittal "Furnish as Submitted", "Furnish as Corrected", or "Furnish as Corrected – Confirm", retain four (4) copies and return remaining copies to the Construction Manager at Risk. If reproducible transparencies are submitted, the Engineer will retain the copies and return the reproducible transparencies to the Construction Manager at Risk. In the case of "Furnish as Corrected – Confirm" a partial resubmittal or additional information are required as specifically requested.
- f. If a full resubmittal is required, the Engineer will annotate the submittal "Revise and Resubmit" and transmit three (3) copies to the Construction Manager at Risk for appropriate action. If reproducible transparencies are submitted, the Engineer will retain the copies and return the reproducible transparencies to the Construction Manager at Risk.
- g. Construction Manager at Risk shall continue to resubmit submittals in part if they are returned "Furnish as Corrected – Confirm" or in full if they are returned "Revise and Resubmit" as required by the Engineer until submittals are acceptable to the Engineer. It is understood by the Construction Manager at Risk that Owner may charge the Construction Manager at Risk the Engineer's charges for review in the event a submittal is not approved (either "Furnish as Submitted" or "Furnish as Corrected") by the third submittal for a system or piece of equipment. These charges shall be for all costs associated with engineering review, meetings with the Construction Manager at Risk or manufacturer, etc., commencing with the fourth submittal of a system or type of equipment submitted for a particular Specification Section.
- h. Acceptance of a Working Drawing by the Engineer will constitute acceptance of the subject matter for which the Drawing was submitted and not for any other structure, material, equipment or appurtenances indicated or shown.

11. Engineer's Review

- a. Engineer's review of the Construction Manager at Risk's submittals shall in no way relieve the Construction Manager at Risk of any of his responsibilities under the Contract. An acceptance of a submittal shall be interpreted to mean that the Engineer has no specific objections to the submitted material, subject to conformance with the Contract Drawings and Specifications.
- b. Engineer's review will be confined to general arrangement and compliance with the Contract Drawings and Specifications only, and will not be for the purpose of checking dimensions, weights, clearances, fittings, tolerances, interferences, coordination of trades, etc.

12. Record Working Drawings

- a. Construction Manager at Risk shall maintain current record drawings onsite for the Engineer's review. Record drawings shall be updated monthly at a minimum.

- b. Prior to final payment, the Construction Manager at Risk shall furnish the Engineer one complete set of all accepted Working Drawings, including Shop Drawings, for equipment, piping, electrical work, heating system, ventilating system, air conditioning system, instrumentation system, plumbing system, structural, interconnection wiring diagrams, etc.
- c. Working Drawings furnished shall be corrected to include any departures from previously accepted Drawings.

D. Operation and Maintenance Manuals

1. Two (2) preliminary copies of Operation and Maintenance Manuals, prepared specifically for this Project, shall be furnished for each item of equipment furnished under this Contract. The preliminary manuals shall be provided to the Engineer not less than 60 days prior to the start-up of the respective equipment.
2. The preliminary manuals shall be reviewed by the Engineer prior to the Construction Manager at Risk submitting final copies for distribution to the Owner. Following review of the preliminary copies of the Operation and Maintenance Manuals, one (1) copy will be returned to the Construction Manager at Risk with required revisions noted, or the acceptance of the Engineer noted.
3. Manuals shall contain complete information in connection with assembly, operation, lubrication, adjustment, wiring diagrams and schematics, maintenance, and repair, including detailed parts lists with drawings or photographs identifying the parts.
4. Manuals furnished shall be assembled and bound in separate volumes, by major equipment items or trades, and properly indexed to facilitate locating any required information. In addition, manuals should be labeled in the front cover with the project, name, equipment description, and manufacturer contact information.
5. Engineer and the Owner shall be the sole judge of the acceptability and completeness of the manuals and may reject any submittal for insufficient information included, incorrect references and/or the manner in which the material is assembled.
6. Following the Engineer's review of the preliminary manuals, the Construction Manager at Risk shall submit five (5) paper copies and two (2) electronic copies of the final Operation and Maintenance Manuals to the Engineer. The manuals shall reflect the required revisions noted during the Engineer's review of the preliminary documents. Failure of the final manuals to reflect the required revisions noted by the Engineer during a review of the Preliminary documents will result in the manuals being returned to the Construction Manager at Risk. Acceptable final Operation and Maintenance Manuals shall be provided not less than two week prior to equipment start-up.

E. Certified Shop Test Reports

1. Each piece of equipment for which pressure, head, capacity, rating, efficiency, performance, function or special requirements are specified or implied shall be tested in the shop of the manufacturer in a manner which shall conclusively prove that its characteristics comply fully with the requirements of the Contract Documents

and applicable test codes and standards. Construction Manager at Risk shall keep the Engineer advised of the scheduling of shop tests so that the Engineer may arrange for the witnessing or inspection at the proper time and place.

2. The Construction Manager at Risk shall secure from the manufacturers five (5) copies of the actual test data, the interpreted results and a complete description of the testing facilities and testing setup, all accompanied by a certificate of authenticity sworn to by a responsible official of the manufacturing company and notarized. These reports shall be forwarded to the Engineer for review.
3. In the event any equipment fails to meet the test requirements, the manufacturer shall make all necessary changes, adjustments or replacements and the tests shall be repeated, at no additional cost to the Owner or Engineer, until the equipment test requirements are acceptable to the Engineer.
4. No equipment shall be shipped to the Project until the Engineer notifies the Construction Manager at Risk, in writing, that the shop test reports are acceptable.

F. Samples

1. Construction Manager at Risk shall furnish for review all samples as required by the Contract Documents or requested by the Engineer.
2. Samples shall be of sufficient size or quantity to clearly illustrate the quality, type, range of color, finish or texture and shall be properly labeled to show the nature of the material, trade name of manufacturer and location of the work where the material represented by the sample will be used.
3. Samples shall be checked by the Construction Manager at Risk for conformance to the Contract Documents before being submitted to the Engineer and shall bear the Construction Manager at Risk's stamp of approval certifying that they have been so checked. Transportation charges on samples submitted to the Engineer shall be prepaid by the Construction Manager at Risk.
4. Engineer's review will be for compliance with the Contract Documents and his comments will be transmitted to the Construction Manager at Risk with reasonable promptness.
5. Accepted samples will establish the standards by which the completed work will be judged.

G. Construction Photographs

1. The Construction Manager at Risk shall engage a competent photographer to take photographs at the locations and at such stages of the construction as directed by the Engineer. Digital photography shall be used and image files shall be submitted to the Engineer monthly.
2. Provide the equivalent of 36 different exposures per month for the duration of the Contract time. When directed by the Engineer, frequency of photographs may be increased to weekly sessions provided that the equivalent number of exposures is not exceeded. Engineer may waive requirements for photographs during inactive

construction periods in favor of increased photographs during active construction sequences.

3. Aerial photograph sessions are required prior to the start of construction, once (1) during construction, and upon construction completion. Three (3) separate aerial photograph sessions (at different times) shall be required for this contract with 24 different exposures per session.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01400QUALITY CONTROLPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Testing Laboratory Services

1. Laboratory testing and checking required by the Specifications, including the cost of transporting all samples and test specimens, shall be provided and paid for by the Owner unless otherwise indicated in the Specifications.
2. Materials to be tested include, but are not necessarily limited to the following: cement, concrete aggregate, concrete, bituminous paving materials, structural and reinforcing steel, waterproofing, select backfill, crushed stone or gravel and sand.
3. Tests required by the Owner shall not relieve the Construction Manager at Risk from the responsibility of supplying test results and certificates from manufacturers or suppliers to demonstrate conformance with the Specifications.
4. Procedure
 - a. The Construction Manager at Risk shall plan and conduct his operations to permit taking of field samples and test specimens, as required, and to allow adequate time for laboratory tests.
 - b. The collection, field preparation and storage of field samples and test specimens shall be as directed by the Engineer with the cooperation of the Construction Manager at Risk.
5. Significance of Tests
 - a. Test results shall be binding on both the Construction Manager at Risk and the Owner, and shall be considered irrefutable evidence of compliance or noncompliance with the Specification requirements, unless supplementary testing shall prove, to the satisfaction of the Owner, that the initial samples were not representative of actual conditions.
6. Supplementary and Other Testing
 - a. Nothing shall restrict the Construction Manager at Risk from conducting tests he may require. Should the Construction Manager at Risk at any time request the Owner to consider such test results, the test reports shall be certified by an independent testing laboratory acceptable to the Owner. Testing of this nature shall be conducted at the Construction Manager at Risk's expense.

1.02 FIELD TESTING OF EQUIPMENT

- A. All equipment shall be set, aligned and assembled in conformance with the manufacturer's drawings and instructions.
- B. Preliminary Field Tests, Yellow Tag
 1. As soon as conditions permit, after the equipment has been secured in its permanent position, the Construction Manager at Risk shall check the equipment for alignment, direction of rotation and that it is free from defects.
 2. Construction Manager at Risk shall flush all bearings, gear housings, etc., in accordance with the manufacturer's recommendations, to remove any foreign matter accumulated during shipment, storage or erection. Lubricants shall be added as required by the manufacturer's instructions.
 3. When the Construction Manager at Risk has demonstrated to the Engineer that the equipment is ready for operation, a yellow tag will be issued. The tag will be signed by the Engineer, or his assigned representative and attached to the equipment. The tag shall not be removed.
 4. Preliminary field tests, yellow tag, must be completed before equipment is subjected to final field tests, blue tag.
- C. Final Field Tests, Blue Tag
 1. Upon completion of the installation, and at a time approved by the Engineer, equipment will be tested by operating it as a unit with all related piping, ducting, electrical controls and mechanical operations.
 2. The equipment will be placed in continuous operation as prescribed or required and witnessed by the Engineer or his assigned representative and the Owner or his assigned representative.
 3. The tests shall prove that the equipment and appurtenances are properly installed, meet their operating cycles and are free from defects such as overheating, overloading, and undue vibration and noise. Equipment shall be tested for the characteristics as specified for the item.
 4. Each pump shall be tested at maximum rated speed for at least four points on the pump curve for capacity, head and electric power input. The rated motor nameplate current and power shall not be exceeded at any point within the specified range. Vibrometer readings shall be taken when directed by the Engineer and the results recorded. Additional tests shall be performed as prescribed in other sections of the Specifications.

5. Pumps with drive motors rated at less than five horsepower shall only be tested for excess current or power when overheating or other malfunction becomes evident in general testing.
6. Until final field tests are acceptable to the Engineer, the Construction Manager at Risk shall make all necessary changes, readjustments and replacements at no additional cost to the Owner.
7. Defects which cannot be corrected by installation adjustments will be sufficient grounds for rejection of any equipment.
8. Upon acceptance of the field tests, a blue tag will be issued. The tag will be signed by the Engineer and attached to the unit. The tag shall not be removed and no further construction work will be performed on the unit, except as required during start-up operations and directed by the Engineer.
9. All costs in connection with such tests including all materials, equipment, instruments, labor, etc., shall be borne by the Construction Manager at Risk.

1.03 IMPERFECT WORK, EQUIPMENT, OR MATERIALS

- A. Any defective or imperfect work, equipment, or materials furnished by the Construction Manager at Risk which is discovered before the final acceptance of the work, as established by the Certificate of Substantial Completion, or during the subsequent guarantee period, shall be removed immediately even though it may have been overlooked by the Engineer and estimated for payment. Any equipment or materials condemned or rejected by the Engineer shall be tagged as such and shall be immediately removed from the site. Satisfactory work or materials shall be substituted for that rejected.
- B. The Engineer may order tests of imperfect or damaged work, equipment, or materials to determine the required functional capability for possible acceptance, if there is no other reason for rejection. The cost of such tests shall be borne by the Construction Manager at Risk; and the nature, tester, extent and supervision of the tests will be as determined by the Engineer. If the results of the tests indicate that the required functional capability of the work, equipment, or material was not impaired, consistent with the final general appearance of same, the work, equipment, or materials may be deemed acceptable. If the results of such tests reveal that the required functional capability of the questionable work, equipment, or materials has been impaired, then such work, equipment, or materials shall be deemed imperfect and shall be replaced. The Construction Manager at Risk may elect to replace the imperfect work, equipment, or material in lieu of performing the tests.

1.04 INSPECTION AND TESTS

- A. The Construction Manager at Risk shall allow the Engineer ample time and opportunity for testing materials and equipment to be used in the work. He shall advise the Engineer promptly upon placing orders for material and equipment so that arrangements may be made, if desired, for inspection before shipment from the place of manufacture. The Construction Manager at Risk shall at all times furnish the Engineer and his representatives, facilities including labor, and allow proper time for inspecting and testing materials, equipment, and workmanship. The Construction Manager at Risk must anticipate possible delays that may be caused in the execution of his work due to the necessity of materials and equipment being inspected and accepted for use. The Construction Manager at Risk shall furnish, at his own expense, all samples of materials required by the Engineer for testing,

and shall make his own arrangements for providing water, electric power, or fuel for the various inspections and tests of structures and equipment.

- B. Construction Manager at Risk shall furnish the services of representatives of the manufacturers of certain equipment, as prescribed in other Sections of the Specifications. The Construction Manager at Risk shall also place his orders for such equipment on the basis that, after the equipment has been tested prior to final acceptance of the work, the manufacturer will furnish the Owner with certified statements that the equipment has been installed properly and is ready to be placed in functional operation. Tests and analyses required of equipment shall be paid for by the Construction Manager at Risk, unless specified otherwise in the Section which covers a particular piece of equipment.
- C. Where other tests or analyses are specifically required in other Sections of these Specifications, the cost thereof shall be borne by the party (Owner or Construction Manager at Risk) so designated in such Sections. The Owner will bear the cost of all tests, inspections, or investigations undertaken by the order of the Engineer for the purpose of determining conformance with the Contract Documents if such tests, inspection, or investigations are not specifically required by the Contract Documents, and if conformance is ascertained thereby. Whenever nonconformance is determined by the Engineer as a result of such tests, inspections, or investigations, the Construction Manager at Risk shall bear the full cost thereof or shall reimburse the Owner for said cost. In this connection, the cost of any additional tests and investigations, which are ordered by the Engineer to ascertain subsequent conformance with the Contract Documents, shall be borne by the Construction Manager at Risk.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01450SPECIAL INSPECTIONSPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. This section defines the requirements for Special Inspections as required by Section 1704 of the International Building Code (IBC) and any State or local amendments.
- B. The Engineer will prepare a Statement of Special Inspections, which identifies the type and extent of required Special Inspections. The Owner will retain one or more Special Inspections Agencies to perform Special Inspection services. These Agencies shall be independent from the Construction Manager at Risk and approved by the Building Official.
- C. The Construction Manager at Risk shall plan and conduct his operations as to schedule and allow Special Inspections, providing adequate time and safe access for inspections. The Construction Manager at Risk shall coordinate requirements for Special Inspections with the Special Inspections Agency.
- D. Special Inspections shall be in addition to inspections performed by Building Officials that are specified in IBC Section 109.
- E. Special Inspections shall be in addition to any Structural Observations required by IBC Section 1710.
- F. Special Inspections do not supersede other inspections and testing required by the Contract Documents to satisfy the Construction Manager at Risk's quality control responsibility. Construction Manager at Risk shall be responsible for all costs associated with quality control requirements as required by other sections of the Specifications.
- G. Special Inspections shall not relieve Construction Manager at Risk's obligation to perform and complete work in accordance with Contract Documents. Results of Special Inspections activities, including any discrepancies that are noted or not noted, shall never constitute an acceptance of work that is not in accordance with the Contract Documents.
- H. This section does not apply to construction equipment, shoring, earth retention systems, and temporary structures used by the Construction Manager at Risk in construction and not detailed in the Contract Documents. The Construction Manager at Risk shall be solely responsible for means, methods, techniques, sequences, or procedures of construction and any associated building code requirements.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Special Inspections requirements apply to work detailed in other sections of the Specifications. Special Inspections requirements shall be in addition to any other inspection or quality control requirements detailed in other sections of the Specifications. See individual specification sections for type of work in question.

1.03 DEFINITIONS

- A. Periodic Special Inspections: The part-time or intermittent observation of work requiring Special Inspection by a Special Inspector who is present in the area where the work has been or is being performed and at the completion of the work.
- B. Continuous Special Inspections: The full-time observation of work requiring Special Inspection by a Special Inspector who is present in the area where the work is being performed.
- C. Engineer: The Registered Design Professional in Responsible Charge of each building system. These systems include structural, mechanical, electrical, and architectural components.
- D. Special Inspections Agency: An established and recognized agency regularly engaged in conducting tests or furnishing inspection services, which has been approved by the Building Official and is retained by the Owner.
- E. Special Inspector: Individual employed by or retained by the Special Inspections Agency who is qualified in inspection of a particular type of construction and conducts inspection activities in that type of construction, as required by this section.
- F. Statement of Special Inspections: Document prepared by the Engineer and submitted to the Building Official which identifies the type and extent of required Special Inspections.
- G. Approved Fabricator: Fabricator who has been registered and approved by the Building Official to perform a particular type of work without Special Inspections.

1.04 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A. Without limiting the generality of the other requirements of the specifications, all work herein shall conform to the applicable requirements of the following documents and all other documents referenced in the specifications. All referenced specifications, codes, and standards refer to the most current issue available at the time of Bid.

1. International Building Code
2. ACI 318 Building Code Requirements for Structural Concrete
3. ACI 530.1/ASCE 6 Specifications for Masonry Structures
4. AISC "Code of Standard Practice."
5. AISC "Specification for Structural Steel Buildings".
6. AISC 348 "The 2009 RCSC Specification for Structural Joints".

7. AWS "Structural Welding Code".
8. Aluminum Association Specifications for Aluminum Structures

1.05 SUBMITTALS

- A. The Construction Manager at Risk shall submit the following in accordance with Section 01300, Submittals.
 1. The Construction Manager at Risk shall submit a written statement of responsibility to the Building Official and Engineer using the attached form entitled "Construction Manager at Risk's Statement of Responsibility" prior to beginning work. A statement is required from each subcontractor who has responsibility for construction or fabrication of a main wind- or seismic-force-resisting system, designated seismic system, or a wind- or seismic-resisting-component listed in the Statement of Special Inspections.
 2. The Construction Manager at Risk shall submit qualifications of any fabricators they intend to use that may qualify as Approved Fabricators to the Special Inspections Agency for review.
- B. The Special Inspections Agency shall submit the following in accordance with Section 01300, Submittals.
 1. The Special Inspections Agency shall provide a statement of qualifications showing relative experience, training, and certification(s) for each Special Inspector to the Building Official, if requested.
 2. The Special Inspections Agency shall review fabricator qualifications and submit them to the Building Official for approval as an Approved Fabricator if requested.
 3. Special Inspectors shall keep detailed inspection records, including all inspections, tests, similar services, and any discrepancies and corrections. Any discrepancies and corrections shall be reported to the Building Official and the Engineer in all required reports, unless otherwise required by the Building Official.
 4. The Special Inspections Agency shall submit Interim Reports to the Building Official and the Engineer documenting required Special Inspections and correction of any discrepancies using the attached form entitled "Interim Report of Special Inspections" at the frequency specified in the Statement of Special Inspections.
 5. The Special Inspections Agency shall submit to the Building Official and the Engineer a Final Report documenting required Special Inspections and correction of any discrepancies using the attached form entitled "Final Report of Special Inspections." The Final Report shall be submitted at a point in time agreed upon by the Owner and the Building Official at the Pre-inspection Meeting.

6. Where work is done by Approved Fabricators, the Special Inspections Agency shall coordinate the submittal of a certificate of compliance to the Building Official and Engineer using the attached form entitled "Fabricator's Certificate of Compliance."

1.06 SPECIAL INSPECTOR QUALIFICATIONS

Special Inspectors shall meet minimum qualifications established by the Building Official and shall be approved by the Building Official.

1.07 OFF-SITE FABRICATIONS

- A. When structural elements or assemblies are fabricated off site, Special Inspections are required to be performed in the fabricator's shop unless the fabricator is an Approved Fabricator. Special Inspections are not required if work is done on the premises of an Approved Fabricator.
- B. Fabricators shall maintain detailed fabrication and quality control procedures to ensure workmanship and conformance with Contract Documents and reference standards. The Special Inspections Agency shall review the fabricator's quality control procedures and coordinate required Special Inspections with the fabricator and the Construction Manager at Risk.
- C. The Construction Manager at Risk shall submit qualifications of fabricators seeking Approved Fabricator status to the Special Inspections Agency for review. Approval as an Approved Fabricator shall be given by the Building Official upon the recommendation of the Special Inspections Agency or upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.01 PRE-INSPECTION MEETING

At least two weeks prior to beginning work, a Pre-inspection Meeting shall be held to discuss the Special Inspection procedures and submittals. The following parties shall participate: the Engineer, a Special Inspections Agency representative, subcontractor, Testing Agencies, and the Building Official. The type of meeting (in-person or teleconference) and location of meeting shall be determined by the Building Official.

3.02 STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS

The Special Inspections Agency and all Special Inspectors are required to comply with all requirements of the Statement of Special Inspections and the Schedule of Special Inspections. Together, these documents identify materials, systems, components, and work that are required to have Special Inspections, the type and extent of Special Inspections, and whether they will be continuous or periodic.

3.03 SPECIAL INSPECTIONS AGENCY REQUIREMENTS AND RESPONSIBILITIES

- A. The Special Inspections Agency shall be an established and recognized agency regularly engaged in conducting tests or furnishing inspection services, which has been approved by the Building Official and is retained by the Owner. The Agency shall demonstrate competence, to the satisfaction of the Building Official, for the inspection of the particular type of construction or operation requiring Special Inspection.
- B. The Special Inspections Agency shall maintain detailed inspection records, including a copy at the jobsite, and all records shall be available upon request by the Engineer or the Building Official. The Agency shall submit all required reports to the Engineer and Building Official. Where Engineer approval is required for corrections, the Special Inspector shall maintain copies of all related correspondence and submit with all required reports. The Agency shall coordinate all required Special Inspection activities with the Special Inspectors, the Construction Manager at Risk, and any fabricators and shall coordinate designation of fabricators as Approved Fabricators when requested.

3.04 SPECIAL INSPECTORS' REQUIREMENTS AND RESPONSIBILITIES

- A. All Special Inspectors shall meet the qualification requirements determined by the Building Official for the particular type of inspection services they will be providing and shall be approved by the Building Official. Special Inspectors shall submit written documentation demonstrating their competence and experience or training to the Building Official for approval of their qualifications.
- B. Special Inspections shall be performed in accordance with all requirements of the Statement of Special Inspections, the Schedule of Special Inspections, the IBC, and any State or local amendments. Special Inspectors shall maintain detailed inspection records, including a copy at the jobsite, and all records shall be available upon request by the Engineer or the Building Official. Special Inspectors shall submit all required reports to the Engineer and the Building Official. Where Engineer approval is required for corrections, the Special Inspector shall maintain copies of all related correspondence and submit with all required reports. Special Inspectors shall coordinate inspection requirements and timing with the Construction Manager at Risk.
- C. Any discrepancies in work noted by the Special Inspector shall be brought to the immediate attention of the Construction Manager at Risk for correction. Special Inspectors shall coordinate correction of discrepancies with the Construction Manager at Risk. Any corrections of discrepancies that result in changes to the work as shown on the Contract Documents shall be approved by the Engineer. If noted discrepancies are not corrected, the Special Inspector shall notify the Construction Manager at Risk, the Engineer, and the Building Official. All noted discrepancies and corrections shall be documented in all inspection records and all required reports.

3.05 CONSTRUCTION MANAGER AT RISK RESPONSIBILITIES

- A. Construction Manager at Risk is responsible for the construction or fabrication of a main wind- or seismic-force-resisting system, designated seismic system, or a wind- or seismic-resisting-component listed in the Statement of Special Inspections shall submit a Statement of Responsibility to the Building Official and Engineer prior to the commencement of work. The Statement of Responsibility shall contain acknowledgement of the special requirements contained in the Statement of Special Inspections.
- B. The Construction Manager at Risk shall coordinate requirements of Special Inspections with the Special Inspections Agency and the Special Inspectors and shall provide adequate time and access to conduct inspections. The Construction Manager at Risk is solely responsible for providing safe access and any necessary safety equipment required to conduct inspections. The Special Inspector shall not supervise, direct, control, or have authority over or be responsible for the Construction Manager at Risk's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of the Construction Manager at Risk to comply with Laws and Regulations applicable to the performance of the Work.
- C. Special Inspections shall not relieve the Construction Manager at Risk's obligation to perform and complete work in accordance with the Contract Documents. Results of Special Inspections activities, including any discrepancies that are noted or not noted, shall never constitute an acceptance of work that is not in accordance with the Contract Documents.
- D. The Construction Manager at Risk shall provide advance notice of work to be conducted that will require Special Inspections. If the Special Inspector is delayed in inspecting the work due to inadequate notice or completion of the work, the Construction Manager at Risk shall reimburse the Owner for the cost of additional subsequent Special Inspections.
- E. The Construction Manager at Risk shall promptly correct any discrepancies noted by the Special Inspectors. Any corrections of discrepancies that result in changes to the work as shown on the Contract Documents shall be approved by the Engineer. Where Engineer approval is required, the Construction Manager at Risk shall report the discrepancy to the Engineer in accordance with provisions of the General Conditions. The Engineer will authorize any changes to the Contract Documents required for the correction in accordance with provisions of the General Conditions. Copies of all correspondence related to the correction shall be submitted concurrently to the Special Inspections Agency.

3.06 BUILDING OFFICIAL OR AUTHORITY RESPONSIBILITIES

The Building Official will approve qualifications of the Special Inspections Agency, all Special Inspectors, and any Approved Fabricators. The Building Official will approve all forms submitted by the Construction Manager at Risk, any Approved Fabricators, the Engineer, the Special Inspections Agency, and the Special Inspectors. The Building

Official and the Special Inspections Agency shall agree to the frequency of Interim Reports and the submittal deadline for the Final Report.

3.07 ENGINEER RESPONSIBILITIES

The Engineer shall complete the Statement of Special Inspections and the Schedule of Special Inspections. The Engineer shall respond to discrepancies noted by the Special Inspector, if required.

3.08 OWNER RESPONSIBILITIES

The Owner will retain a Special Inspections Agency to perform Special Inspections during construction.

3.09 MINIMUM INSPECTION REQUIREMENTS

Detailed requirements for Special Inspections are shown in the Statement of Special Inspections and the Schedule of Special Inspections, which references the IBC, applicable code standards, and any State or local amendments. Special Inspections shall be performed in accordance with all requirements of the Statement of Special Inspections, the Schedule of Special Inspections, the IBC, and any State or local amendments. Additional requirements for specific materials listed in other sections of these specifications shall also be satisfied. The frequency of inspections shall be continuous or periodic as indicated in the Schedule of Special Inspections and in accordance with applicable building codes.

3.10 DISCREPANCIES AND CORRECTIVE MEASURES

- A. The Special Inspector shall bring any discrepancies to the immediate attention of the Construction Manager at Risk for correction. The Construction Manager at Risk shall promptly correct any discrepancies noted by the Special Inspectors. Special Inspectors shall coordinate correction of discrepancies with the Construction Manager at Risk. Discrepancies and their correction shall be noted in inspection records and in all required reports. Any corrections that result in changes to the work as shown on the Contract Documents shall be approved by the Engineer. Where Engineer approval is required, the Construction Manager at Risk shall report the discrepancy to the Engineer in accordance with provisions of the General Conditions. The Engineer will authorize any changes to the Contract Documents required for the correction in accordance with provisions of the General Conditions. Copies of all correspondence related to the correction shall be submitted concurrently to the Special Inspections Agency.
- B. If discrepancies are not corrected promptly, the Special Inspector shall notify the Construction Manager at Risk, the Engineer, and the Building Official using the attached form "Notification of Failure to Correct Discrepancies."

3.11 REPORTS

Special Inspectors shall maintain detailed inspection records, including a copy at the jobsite, and all records shall be available upon request by the Engineer or the Building Official. The Special Inspections Agency shall submit all required reports to the Building Official and Engineer as agreed upon with the Building Official. Reports shall indicate

Statement of Special Inspections Requirements for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements.

Seismic Design Category: _

Statement of Special Inspection for Seismic Resistance Required (Yes/No): _____

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:

(Required for Seismic Design Categories C, D, E or F)

Description of designated seismic systems subject to special inspection and testing for seismic resistance:

(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, I_p , greater than one and are in Seismic Design Categories D, E or F.)

Description of additional seismic systems and components requiring special inspections and testing:

(Required for systems noted in IBC Section 1705.3, cases 3, 4 & 5 in Seismic Design Categories C, D, E or F.)

Statement of Responsibility:

Each Construction Manager at Risk responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

Statement of Special Inspections Requirements for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Basic Wind Speed (3 second gust): _____ m.p.h.

Wind Exposure Category: _

Statement of Special Inspection for Wind Resistance Required (Yes/No): _____

*(Required in wind exposure Category B, where the basic wind speed is 120 miles per hour or greater.
Required in wind exposure Category C or D, where the basic wind speed is 110 miles per hour or greater)*

Description of main wind force-resisting system subject to special inspection for wind resistance:

Description of wind force-resisting components subject to special inspection for wind resistance:

Statement of Responsibility:

Each Construction Manager at Risk responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

INTERIM REPORT OF SPECIAL INSPECTIONS

City/County of:							
Project Name/Address:				Inspection Type(s) Coverage:			
				<input type="checkbox"/> Continuous		<input type="checkbox"/> Periodic	
Describe Inspections Made, Including Locations:							
Tests Made:							
Total Inspection	Date:						
Time Each Day	Hours:						
List items requiring Special Inspection, and any discrepancies and corrections. If Engineer approval is required for any corrections, note this, and indicate that approval was obtained. Attach copies of all related correspondence.							
Comments:							

To the best of my knowledge, work inspected was in accordance with the Contract Documents and applicable standards except as noted above.

Signed: _____

Date: _____

Print Full Name: _____

I.D. _____

Phone Number: _____

This report is to be submitted to the Building Official and the Engineer. A copy shall be maintained at the jobsite.

FINAL REPORT OF SPECIAL INSPECTIONS

PROJECT: _____

LOCATION: _____

PERMIT APPLICANT: _____

APPLICANT'S ADDRESS: _____

ARCHITECT OF RECORD: _____

STRUCTURAL ENGINEER OF RECORD: _____

MECHANICAL ENGINEER OF RECORD: _____

ELECTRICAL ENGINEER OF RECORD: _____

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: _____

To the best of my information, knowledge, and belief, Special Inspections required for this Project in accordance with Section 1705 of the 2009 International Building Code and any State or local amendments have been performed, and all work has been completed in accordance with the Contract Documents and all applicable standards, except as indicated.

The Special Inspection program does not relieve the Construction Manager at Risk of the obligation to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Construction Manager at Risk.

This Final Report includes information submitted in previous Interim Reports numbered ____ to _____, as well as any Special Inspections, discrepancies, and corrections occurring since the last Interim Report, dated _____.

All items requiring Special Inspection are listed below. All inspections, tests, and similar services that were performed are listed and any discrepancies and corrections are indicated. If Engineer approval was required for any corrections, this is noted, and copies of all related correspondence are attached.

(Attach 8 1/2"x11" continuation sheet(s) if required to complete the description of corrections)

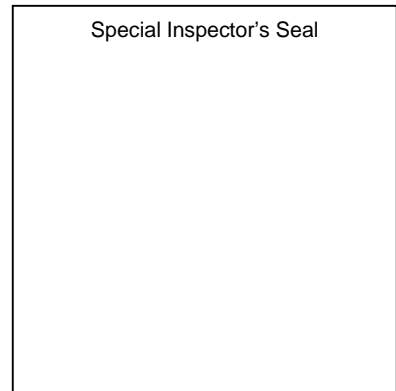
Prepared By:

Special Inspection Agency

Type or print name

Signature

Date



CONSTRUCTION MANAGER AT RISK'S STATEMENT OF RESPONSIBILITY

Each Construction Manager at Risk responsible for the construction or fabrication of a main-wind- or seismic-force-resisting system, designated seismic system, or a wind- or seismic-resisting-component listed in the Statement of Special Inspections must submit this Statement of Responsibility prior to commencement of work on the system or component.

Project: _____

Construction Manager at Risk's Name: _____

Address: _____

License No.: _____

Description of building systems and components included in Statement of Responsibility:

Construction Manager at Risk's Acknowledgement of Special Requirements

I hereby acknowledge that I have received, read, and understand the Statement of Special Inspections and its requirements.

Name and Title (type or print)

Signature

Date

FABRICATOR’S CERTIFICATE OF COMPLIANCE

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2.2 of the 2009 International Building Code must submit this Fabricator’s Certificate of Compliance at the completion of fabrication.

Project: _____

Fabricator’s Name: _____

Address: _____

Description of structural members and assemblies that have been fabricated:

I hereby certify that items described above were fabricated on my premises in strict accordance with the Contract Documents and applicable standards.

Name and Title (type or print)

Signature

Date

Attach copy of Building Official’s approval of fabricator as an Approved Fabricator.

NOTIFICATION OF FAILURE TO CORRECT DISCREPANCY

City/County of:
Project name/Address:
List discrepancies, proposed correction, and Construction Manager at Risk response. If Engineer approval is required for any corrections, note this, and indicate whether approval was obtained. Attach copies of all related correspondence.
Comments:

Signed: _____

Date: _____

Print Full Name: _____

I.D. _____

Phone Number: _____

This report is to be submitted to the Building Official, the Construction Manager at Risk, and the Engineer.

SECTION 01510TEMPORARY UTILITIESPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. The Construction Manager at Risk shall provide temporary light and power, heating, water service and sanitary facilities for his operations, for the construction operations of the other Construction Manager at Risks of this Project at the site. The temporary services shall be provided for use throughout the construction period.
- B. The Construction Manager at Risk shall coordinate and install all temporary services in accordance with the requirements of the utility companies having jurisdiction and as required by applicable codes and regulations.
- C. At the completion of the work, or when the temporary services are no longer required, the facilities shall be restored to their original conditions.
- D. All costs in connection with the temporary services including, but not limited to, installation, utility company service charges, maintenance, relocation and removal shall be borne by the Construction Manager at Risk at no additional cost to the Owner.
- E. Some temporary facilities that may be required may be indicated on the Drawings; however, the Drawings do not necessarily show any or all of the temporary facilities that the Construction Manager at Risk ultimately uses to complete the work.
- F. Temporary Light and Power
 - 1. The temporary general lighting and small power requirements shall be serviced by 120/240 V, 1 phase, 3 wire temporary systems furnished and installed by the Construction Manager at Risk. This service shall be furnished complete with main disconnect, overcurrent protection, meter outlet, branch circuit breakers, and wiring as required; including branch circuit breakers and wiring as required for furnishing temporary power to the various subcontractors field office service connections, all in accordance with the requirements of the servicing power company and applicable standards and codes. The meter for the temporary 120/240 V service for construction purposes shall be registered in the name of the subcontractor and all energy charges for furnishing this temporary electric power shall be borne by the Construction Manager at Risk. Any subcontractor at Risk with a need for power other than the 120/240 V, 1 phase, 3 wire shall provide such power at his own expense.
 - 2. The Construction Manager at Risk shall make all necessary arrangements, and pay for all permits, inspections, and power company charges for all temporary service installations. All temporary systems shall comply with and meet the approval of the local authorities having jurisdiction. All temporary electrical systems shall consist of wiring, switches, necessary insulated supports, poles, fixtures, sockets, receptacles, lamps, guards, cutouts, and fuses as required to complete such installations. The Construction Manager at Risk shall furnish lamps and fuses for all temporary

systems furnished by him and shall replace broken and burned out lamps, blown fuses, damaged wiring and as required to maintain these systems in adequate and safe operating condition. All such temporary light and power system shall be installed without interfering with the work of the other Construction Manager at Risks.

When it is necessary during the progress of construction that a temporary electrical facility installed under this Division interferes with construction operations, the Construction Manager at Risk shall relocate the temporary electrical facilities to maintain temporary power as required at no additional cost to the Owner. The Construction Manager at Risk shall be responsible at all times for any damage or injury to equipment, materials, or personnel caused by improperly protected or installed temporary installations and equipment.

3. The various subcontractors doing the work at the site shall be permitted to connect into the temporary general lighting system small hand tools, such as drills, hammers, and grinders, provided that:
 - a. Equipment and tools are suitable for 120 V, single phase, 60 Hz operation and operating input does not exceed 1,500 volt-amperes.
 - b. Tools are connected to outlets of the system with only one (1) unit connected to a single outlet.
 - c. In case of overloading of circuits, the Construction Manager at Risk will restrict use of equipment and tools as required for correct loading.
4. The Construction Manager at Risk shall keep the temporary general lighting and power systems energized fifteen minutes before the time that the earliest trade starts in the morning and de-energized fifteen minutes after the time the latest trade stops. This applies to all weekdays, Monday through Friday, inclusive, which are established as regular working days.

Any Contractor requiring temporary light and power before or after the hours set forth hereinbefore, or on a Saturday, Sunday, or holiday, shall pay for the additional cost of keeping the system energized and repaired. If more than one Contractor is involved, the charges shall be prorated, such amounts to be determined from the meter readings or other acceptable means previously agreed upon by the Contractors involved. If it is necessary for any Construction Manager at Risk or his employees to be in any structure after regular working hours and the temporary general lighting system is not required for illumination, that Construction Manager at Risk shall provide such illumination required by means of flashlights, electric lanterns, or other devices not requiring use of electricity from the temporary general lighting system.

5. Each Contractor requiring additional power and lighting other than that specified herein (including power for temporary heating equipment to be provided by the Construction Manager at Risk) shall furnish his own service complete with all fuses, cutouts, wiring and other material and equipment necessary for a complete system between the service point and the additional power consumers and shall install his own metering equipment in accordance with the requirements of the servicing power company.

6. The temporary general lighting system shall be installed progressively in structures as the various areas are enclosed or as lighting becomes necessary because of partial enclosure. Lighting intensities shall be not less than 10 foot candles.
7. The Construction Manager at Risk shall provide a separate temporary night lighting circuit for construction security. This system shall be energized at the end of each normal working day and de-energized at the start of each normal working day by the Construction Manager at Risk. The system is to be left energized over Saturdays, Sundays, and all holidays. Lighting intensities shall be not less than 2 foot candles.
8. Electrical welders provided by each trade used in the erection and fabrication of the buildings, structures and equipment shall be provided with an independent grounding cable connected directly to the structure on which the weld is being made rather than adjacent conduit piping, etc.

Electricians and other tradesmen necessary for the required connections and operation of welding equipment and generator, standby generators and similar equipment shall be furnished by the individual Contractors. All costs for such labor and equipment shall be borne by the individual Contractors.

9. Upon completion of the work, but prior to acceptance by the Owner, the Construction Manager at Risk shall remove all temporary services, security lighting systems, temporary general lighting systems and all temporary electrical work from the premises.

G. Temporary Heating

1. The Construction Manager at Risk shall provide temporary heating, ventilation coverings and enclosures necessary to properly protect all work and materials against damage by dampness and cold, to dry out the work and to facilitate work in all structures.
2. The equipment, fuel, materials, operating personnel and methods used shall be at all times satisfactory and adequate to maintain critical installation temperatures and ventilation for all work in those areas where the same is required.
3. After any structure is enclosed, the minimum temperature to be maintained is 50°F, unless otherwise specified, where work is actually being performed.
4. Before and during the application of interior finishing, painting, etc., the Construction Manager at Risk shall provide sufficient heat to maintain a temperature of not less than 65°F.
5. Any work damaged by dampness or insufficient or abnormal heating shall be replaced by the Construction Manager at Risk at no additional cost to the Owner.

H. Temporary Sanitary Service

1. Sanitary conveniences, in sufficient numbers, for the use of all persons employed on the work and properly screened from public observation, shall be provided and maintained at suitable locations by the Construction Manager at Risk, all as prescribed by State Labor Regulations and local ordinances. The contents of same shall be removed and disposed of in a manner consistent with local and state regulations, as the occasion requires. Each subcontractor shall rigorously prohibit

the committing of nuisances within, on, or about the work. Sanitary facilities shall be removed from the site when no longer required.

I. Temporary Water

1. The Construction Manager at Risk shall provide temporary water service for construction purposes, sanitary facilities, fire protection, field offices and for cleaning. The Construction Manager at Risk shall make all arrangements for connections to the potable water at the plant site.

The Construction Manager at Risk shall pay all charges associated with the connection and all charges for potable water used under this Contract.

2. Each subcontractor shall supply potable water for his employees either by portable containers or drinking fountains.
3. An adequate number of hose bibbs, hoses, and watertight barrels shall be provided for the distribution of water.
4. Water service shall be protected from freezing and the service shall be extended and relocated as necessary to meet temporary water requirements.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01520MAINTENANCE OF UTILITY OPERATIONS DURING CONSTRUCTIONPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. The Richmond Road Station (RRS) and Kentucky River Station No. 1 (KRS-1) WTP's and Jacobson Reservoir (JRes) Pump Station will be maintained in continuous operation by the Owner during the entire construction period of all Contracts as hereinafter specified. The intent of this section is to outline the minimum requirements necessary to allow the Owner to continuously operate and maintain the treatment facility in order to remain in compliance with all permit requirements.
- B. Work under each Contract shall be scheduled and conducted by each Construction Manager at Risk so as not to impede any treatment process, reduce the quality of the plant effluent or cause odor or other nuisance except as explicitly permitted hereinafter. In performing the work shown and specified, the Construction Manager at Risk shall plan and schedule his work to meet the treatment plants, pump station, and collection system operating requirements, and the constraints and construction requirements as outlined in this Section. No discharge of raw or inadequately treated water shall be allowed. The Construction Manager at Risk shall pay all civil penalties, costs, assessments, etc., associated with any discharge of raw or inadequately treated water associated with the Construction Manager at Risk's work.
- C. The Construction Manager at Risk shall be responsible for coordinating the general construction and electrical, HVAC and plumbing construction schedules and for ensuring that permanent or temporary power is available for all existing, proposed, and temporary facilities that are required to be on line at any given time.
- D. The Construction Manager at Risk has the option of providing additional temporary facilities that can eliminate a constraint, provided it is done without cost to the Owner and provided that all requirements of these Specifications are fulfilled. The Construction Manager at Risk shall submit any such plan for providing additional temporary facilities to eliminate a constraint to the PM for review. Such plans must be approved by the Engineer and Owner prior to the Construction Manager at Risk proceeding. Work not specifically covered in the following paragraphs may, in general, be done at any time during the contract period, subject to the operating requirements and constraints and construction requirements outlined hereinafter. All references to days in this Section shall be consecutive calendar days.

1.02 GENERAL CONSTRAINTS

- A. The Construction Manager at Risk shall schedule the Work so that the treatment plants and pump station are maintained in continuous operation. All treatment processes shall be maintained in continuous operation during the construction period except during approved process interruptions. All short-term system or partial systems shutdowns and diversions shall be approved by the Engineer. Long-term process shutdowns and diversions shall conform to the requirements hereinafter specified and shall be minimized by the

Construction Manager at Risk as much as possible. If in the judgement of the Engineer a requested shutdown is not required for the Construction Manager at Risk to perform the Work, the Construction Manager at Risk shall utilize approved alternative methods to accomplish the Work. All shutdowns shall be coordinated with and scheduled at times suitable to the Owner. Shutdowns shall not begin until all required materials are on hand and ready for installation. Each shutdown period shall commence at a time approved by the Owner, and the Construction Manager at Risk shall proceed with the Work continuously, start to finish, until the Work is completed and normal treatment plant / pump station operation is restored. If the Construction Manager at Risk completes all required Work before the specified shutdown period has ended, the Owner may immediately place the existing system back into service.

- B. The Construction Manager at Risk shall schedule short-term and long-term shutdowns in advance and shall present all desired shutdowns in the 30 and 60-day schedules at the progress meetings (see Section 01200). Shutdowns shall be fully coordinated with the Plant Superintendent at least 48 hours before the scheduled shutdown. Owner personnel shall operate Owner's facilities involved in the short-term and long-term shutdowns and diversions.
- C. Short term shutdowns in treatment plant / pump station flow will be allowed for tie-ins to existing facilities, installation of temporary bulkheads, etc. All such shutdowns shall be scheduled for week-end low-flow periods and shall be limited to less than two (2) hours depending on incoming flow rate and storage volume in the collection and treatment system. Any shutdown of two (2) hours or longer duration shall be defined as a long-term shutdown. The Construction Manager at Risk shall provide appropriate diversion facilities to be approved by the Owner, and at no additional cost to the Owner, when the treatment plant / pump station cannot be shut down for a sufficient long time to accomplish the required work. The Construction Manager at Risk may be allowed additional time for short-term interruptions if he can demonstrate to the Owner and Engineer that the collection system will not surcharge or overflow during the requested shutdown period. Duration of short-term interruptions allowed will depend on incoming water flow rate and prevention of any discharge of raw water from the collection system. The schedule and duration of short-term shutdowns shall be at the discretion of the Owner.
- D. Any temporary work, facilities, roads, walks, protection of existing structures, piping, blind flanges, valves, equipment, etc. that may be required within the Construction Manager at Risk's work limits to maintain continuous and dependable treatment plant / pump station operation shall be furnished by the Construction Manager at Risk at the direction of the Engineer at no extra cost to the Owner.
- E. The Owner shall have the authority to order Work stopped or prohibited that would, in his opinion, unreasonably result in interrupting the necessary functions of the treatment plant / pump station operations.
- F. If the Construction Manager at Risk impairs performance or operation of the treatment plant / pump station as a result of not complying with specified provisions for maintaining plant operations, then the Construction Manager at Risk shall immediately make all repairs or replacements and do all work necessary to restore the treatment plant / pump station to operation to the satisfaction of the Engineer. Such work shall progress continuously to completion on a 24-hours per day, seven work day's per week basis.

- G. The Construction Manager at Risk shall provide the services of emergency repair crews on call 24-hours per day to affect repairs to portions of the treatment plant / pump station affected by the Construction Manager at Risk's operations.

1.03 GENERAL OPERATING REQUIREMENTS, CONSTRAINTS, AND CONSTRUCTION REQUIREMENTS

A. Access to Construction Sites, Roadways, and Parking Areas

1. An unobstructed traffic route through the Main Gate shall be maintained at all times for the Owner's operations personnel and maintenance equipment. Parking for personal vehicles of construction personnel shall not be allowed within the fence of the treatment plants and reservoir pump station. Construction personnel may park on City property outside the fence in areas approved by the Engineer. The Construction Manager at Risk shall be responsible for providing access to and for preparing and maintaining/approved parking areas.
2. An unobstructed traffic route around the sites shall be maintained at all times for the Owner's operations personnel and maintenance equipment. Vehicular access to the treatment units and buildings for Owner personnel shall be maintained at all times by the Construction Manager at Risk.
3. The Construction Manager at Risk shall provide temporary measures to protect the existing pavement by filling over with earthen material or supplying other measures acceptable to the Engineer, and he shall repair any damage to existing paved surfaces that occurs during the construction period. Any areas disturbed along the shoulders of the access road and interior roads and elsewhere inside and outside of the sites shall be repaired, graded, seeded, etc. as necessary to match pre-existing conditions.
4. The Construction Manager at Risk shall not undertake the restoration/construction of new roadway (paved, gravel, or asphalt overlay) shown on the Contract Drawings, until all other work on the treatment plant / pump station improvements has been completed.
5. It shall be the responsibility of the Construction Manager at Risk to obtain any permits required from the Kentucky Transportation Cabinet and pay all associated fees.

B. Personnel Access

1. Kentucky American Water (KAW) personnel shall have access to all areas which remain in operation throughout the construction period. The Construction Manager at Risk shall locate stored material, dispose of construction debris and trash, provide temporary walkways, provide temporary lighting, and other such work as directed by the Engineer to maintain personnel access to areas in operation. Access and adequate parking areas for KAW personnel must be maintained throughout construction.

C. Plumbing Facilities

1. Unless otherwise allowed by the Engineer, sanitary facilities in the existing structures shall be operational at all times for plant operating personnel. All other building plumbing systems such as roof and floor drains, pumping, etc., shall be maintained for all structures.

D. Building Heating and Ventilating

1. Building heating and ventilating for the existing treatment plant / pump station structures shall be in service for the entire construction period. Additional temporary heating and ventilation shall be provided as required to maintain facilities under construction adequately heated and vented. The temperatures to be maintained in any areas occupied by plant operating personnel such as offices, lunchrooms, locker rooms, bathrooms, etc., shall be at least 65°F. The temperatures to be maintained in all other interior treatment plant / pump station areas, whether new, existing or temporary, shall be maintained at a minimum of 55°F.

E. Power, Light and Communications Systems (General)

1. Electric power, lighting service and communications systems shall be maintained in uninterrupted operation in all areas which remain in operation. Individual units may be disconnected as required for replacement, but service shall be available at all times including periods when treatment plant / pump station elements are out of service. Shutdown of electrical facilities shall be limited to not more than five (5) hours. The Owner may allow longer outages under conditions determined by the Owner by making use of the existing and/or the proposed engine-generator at the treatment plant / pump station. All costs associated with operation of the engine-generators shall be paid by the Construction Manager at Risk. The Electrical Construction Manager at Risk shall coordinate shutdowns required with the Construction Manager at Risk to minimize the total number of shutdowns required to complete construction. Owner's phone service to the treatment plant / pump station shall be maintained in continuous operation during construction.

F. Draining Process Pipes and Conduits (General)

1. The contents of all pipes and conduits to be removed, replaced or relocated (or dewatered for a specific purpose) shall be transferred to a suitable facility in a manner approved by the Owner through hoses or piping, or by using pumps if hydraulic conditions so require them. The Construction Manager at Risk shall provide the pumps, piping and hoses at no additional cost to the Owner. No uncontrolled spillage of a pipe or conduit shall be permitted. Any spillage, other than potable water, shall be immediately washed down and flushed into the appropriate process flow train.

G. Potable Water System

1. Potable water service shall be maintained in continuous service at all times during construction except for short term interruptions required for tie-ins. Shutdown of the potable water system shall be fully planned and coordinated with the Plant Superintendent and shall be limited to not more than two (2) hours. Existing fire hydrants within the treatment plant / pump station site shall be operational at all times, unless otherwise approved by the Owner.

H. Non-potable Water System

1. The existing non-potable water service shall be maintained in continuous operation during construction except for short term tie-ins of new or temporary facilities to existing facilities, until the new system is brought into service. Temporary non-potable service for the chlorine and pump seal water systems shall be provided by the Construction Manager at Risk as necessary to insure continuous, uninterrupted service of these critical systems. The Construction Manager at Risk shall furnish any required temporary non-potable water systems at no additional cost to the Owner. The Construction Manager at Risk may require temporary support or relocation or demolition of existing non-potable water facilities to proceed with construction. The Construction Manager at Risk shall provide all temporary supports, relocation of existing piping, or demolition of existing non-potable water piping including placement with temporary or permanent non-potable water piping as required at no additional cost to the Owner. Shutdown of the non-potable water system shall be fully coordinated with the Plant Superintendent and shall be limited to not more than five (5) hours.

I. Sump Pumps and Sumps

1. All existing sumps shall be maintained in an operable condition with either existing pumps or temporary pumps. Interim piping, power and controls shall be provided as required by the staged construction sequence.

J. Seal Water and Service Water Piping

1. A supply of service and seal water and the necessary connections to existing equipment shall be maintained during construction. Interim piping shall be provided as required.

1.04 SPECIFIC OPERATIONAL CONSTRAINTS

- A. The respective Construction Manager at Risks shall schedule the work for the following based on the constraints given in such a manner as to maintain the treatment plant / pump station in continuous operation.

At RRS, Chemical Building 1 will be provided to house liquid lime, polyaluminum chloride, polymer, and sodium permanganate storage and feed systems, and a separate Chemical Building 2 will be provided to house sodium hypochlorite, aqua ammonia, fluoride, and corrosion inhibitor storage and feed systems, as shown in the Drawings. The construction sequence would be as follows:

1. Construct the new powdered activated carbon (PAC) storage and feed system at JRes.
2. Construct the new Chemical Building 1 in the previous filter building location. During the construction of the new chemical building, the existing chemical systems would operate without interruption.

3. Once the building is constructed and operational, the existing sodium permanganate storage and feed system at JRes would be decommissioned.
4. Construct the eastern portion of the new Chemical Building 2, containing chemical feed systems for aqua ammonia, fluoride, and corrosion inhibitor.
5. Demolish the existing Chemical Building Number 2 housing powdered activated carbon (PAC), gaseous ammonia, polymer, polyaluminum chloride (PACl), fluoride, and corrosion inhibitor (phosphate).
6. Construct the western portion of the new Chemical Building 2.
7. Once the building is constructed and operational, the existing Chemical Building Number 1 housing gaseous chlorine and caustic would be decommissioned and demolished.

At KRS-1, Chemical Building 2 will be provided to house sodium permanganate, ferric chloride, liquid lime, sodium hypochlorite, and aqua ammonia, as shown in the Drawings. The construction sequence would be as follows:

1. Construct the new Chemical Building 2.
2. Once the building is constructed and operational, the existing sodium permanganate, ferric chloride, caustic, chlorine gas, and ammonia gas storage and feed systems would be decommissioned and demolished.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01530PROTECTION OF EXISTING FACILITIESPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. Construction Manager at Risk shall be responsible for the preservation and protection of property adjacent to the work site against damage or injury as a result of his operations under this Contract. Any damage or injury occurring on account of any act, omission or neglect on the part of the Construction Manager at Risk shall be restored in a proper and satisfactory manner or replaced by and at the expense of the Construction Manager at Risk to an equal or superior condition than previously existed.
- B. Construction Manager at Risk shall comply promptly with such safety regulations as may be prescribed by the Owner or the local authorities having jurisdiction and shall, when so directed, properly correct any unsafe conditions created by, or unsafe practices on the part of, his employees. In the event of the Construction Manager at Risk's failure to comply, the Owner may take the necessary measures to correct the conditions or practices complained of, and all costs thereof will be deducted from any monies due the Construction Manager at Risk. Failure of the Engineer to direct the correction of unsafe conditions or practices shall not relieve the Construction Manager at Risk of his responsibility hereunder.
- C. In the event of any claims for damage or alleged damage to property as a result of work under this Contract, the Construction Manager at Risk shall be responsible for all costs in connection with the settlement of or defense against such claims. Prior to commencement of work in the vicinity of property adjacent to the work site, the Construction Manager at Risk, at his own expense, shall take such surveys as may be necessary to establish the existing condition of the property. Before final payment can be made, the Construction Manager at Risk shall furnish satisfactory evidence that all claims for damage have been legally settled or sufficient funds to cover such claims have been placed in escrow, or that an adequate bond to cover such claims has been obtained.

1.02 PROTECTION OF WORK AND MATERIAL

- A. During the progress of the work and up to the date of final payment, the Construction Manager at Risk shall be solely responsible for the care and protection of all work and materials covered by the Contract, except as provided for in Article 14.05 of the Supplementary Conditions.
- B. All work and materials shall be protected against damage, injury or loss from any cause whatsoever, and the Construction Manager at Risk shall make good any such damage or loss at his own expense. Protection measures shall be subject to the approval of the Engineer.

1.03 BARRICADES, WARNING SIGNS AND LIGHTS

- A. The Construction Manager at Risk shall provide, erect and maintain as necessary, strong and suitable barricades, danger signs and warning lights along all roads accessible to the

public, as required by the authority having jurisdiction, to insure safety to the public. All barricades and obstructions along public roads shall be illuminated at night and all lights for this purpose shall be kept burning from sunset to sunrise.

- B. Each Contractor shall provide and maintain such other warning signs and barricades in areas of and around their respective work as may be required for the safety of all those employed in the work, the Owner's operating personnel, or those visiting the site.

1.04 EXISTING UTILITIES AND STRUCTURES

- A. The term existing utilities shall be deemed to refer to both publicly-owned and privately-owned utilities such as electric power and lighting, telephone, water, gas, storm drains, process lines, sanitary sewers and all appurtenant structures.
- B. Where existing utilities and structures are indicated on the Drawings, it shall be understood that all of the existing utilities and structures affecting the work may not be shown and that the locations of those shown are approximate only. It shall be the responsibility of the Construction Manager at Risk to ascertain the actual extent and exact location of existing utilities and structures. In every instance, the Construction Manager at Risk shall notify the proper authority having jurisdiction and obtain all necessary directions and approvals before performing any work in the vicinity of existing utilities.
- C. Prior to beginning any excavation work, the Construction Manager at Risk shall, through field investigations, determine any conflicts or interferences between existing utilities and new utilities to be constructed under this project. This determination shall be based on the actual locations, elevations, slopes, etc., of existing utilities as determined in the field investigations, and locations, elevation, slope, etc. of new utilities as shown on the Drawings. If an interference exists, the Construction Manager at Risk shall bring it to the attention of the Engineer as soon as possible. If the Engineer agrees that an interference exists, he shall modify the design as required. Additional costs to the Construction Manager at Risk for this change shall be processed through a Change Order as detailed elsewhere in these Contract Documents. In the event the Construction Manager at Risk fails to bring a potential conflict or interference to the attention of the Engineer prior to beginning excavation work, any actual conflict or interference which does arise during the Project shall be corrected by the Construction Manager at Risk, as directed by the Engineer, at no additional expense to the Owner.
- D. The work shall be carried out in a manner to prevent disruption of existing services and to avoid damage to the existing utilities. Temporary connections shall be provided, as required, to insure uninterrupted of existing services. Any damage resulting from the work of this Contract shall be promptly repaired by the Construction Manager at Risk at his own expense in a manner approved by the Engineer and further subject to the requirements of any authority having jurisdiction. Where it is required by the authority having jurisdiction that they perform their own repairs or have them done by others, the Construction Manager at Risk shall be responsible for all costs thereof.
- E. Where excavations by the Construction Manager at Risk require any utility lines or appurtenant structures to be temporarily supported and otherwise protected during the construction work, such support and protection shall be provided by the Construction Manager at Risk. All such work shall be performed in a manner satisfactory to the Engineer and the respective authority having jurisdiction over such work. In the event the Construction Manager at Risk fails to provide proper support or protection to any existing

utility, the Engineer may, at his discretion, have the respective authority to provide such support or protection as may be necessary to insure the safety of such utility, and the costs of such measures shall be paid by the Construction Manager at Risk.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01540DEMOLITION AND REMOVAL OF EXISTING STRUCTURES AND EQUIPMENTPART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. This Section covers the demolition, removal, and disposal of existing buildings, structures, pavement, curbs, and sidewalk, removal and disposal of asbestos materials, and any existing equipment including electrical, plumbing, heating and ventilating equipment and piping not required for the operation of the rehabilitated plant as indicated on the Drawings and as specified hereinafter. The Construction Manager at Risk shall furnish all labor, materials and equipment to demolish buildings and structures and to remove fixtures, anchors, supports, piping and accessories designated to be removed on the Drawings.

1.02 TITLE TO EQUIPMENT AND MATERIALS

- A. Construction Manager at Risk shall have no right or title to any of the equipment, materials or other items to be removed from the existing buildings or structures unless and until said equipment, materials and other items have been removed from the premises. The Construction Manager at Risk shall not sell or assign, or attempt to sell or assign any interest in the said equipment, materials or other items until the said equipment, materials or other items have been removed.
- B. Construction Manager at Risk shall have no claim against the Owner because of the absence of such fixtures and materials.

1.03 CONDITION OF STRUCTURES AND EQUIPMENT

- A. The Owner does not assume responsibility for the actual condition of structures and equipment to be demolished and removed.
- B. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner so far as practicable.
- C. The information regarding the existing structures and equipment shown on the Drawings is based on visual inspection and a walk-through survey only. Neither the Engineer nor the Owner will be responsible for interpretations or conclusions drawn therefrom by the Construction Manager at Risk.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

3.01 DEMOLITION AND REMOVALS

- A. The removal of all equipment and piping, and all materials from the demolition of buildings and structure shall, when released by the Owner and Engineer, shall be done by the Construction Manager at Risk and shall become the Construction Manager at Risk's property, unless otherwise noted, for disposition in any manner not contrary to the Contract requirements and shall be removed from the site to the Construction Manager at Risk's own place of disposal.
- B. The Electrical Contractor (Subcontractor) specifically, shall de-energize all panelboards, lighting fixtures, switches, circuit breakers, electrical conduits, motors, limit switches, pressure switches, instrumentation such as flow, level and/or other meters, wiring, and similar power equipments prior to removal. Any electric panels or equipment which are to be retained shall be relocated or isolated by the Electrical Contractor (Subcontractor) specifically, prior to the removal of the equipment specified herein.
- C. The Construction Manager at Risk shall proceed with the removal of the equipment, piping and appurtenances in a sequence designed to maintain the plant in continuous operation as described in Section 01520, Maintenance of Utility Operations during Construction, and shall proceed only after approval of the Engineer.
- D. Any equipment piping and appurtenances removed without proper authorization, which are necessary for the operation of the existing facilities shall be replaced to the satisfaction of the Engineer at no cost to the Owner.
- E. Excavation caused by demolitions shall be backfilled with fill free from rubbish and debris.

3.02 PROTECTION

- A. Demolition and removal work shall be performed by competent experienced workmen for the various type of demolition and removal work and shall be carried out through to completion with due regard to the safety of Owner employees, workmen on-site and the public. The work shall be performed with as little nuisance as possible.
- B. The work shall comply with the applicable provisions and recommendation of ANSI A10.2, Safety Code for Building Construction, all governing codes, and as hereinafter specified.
- C. The Construction Manager at Risk shall make such investigations, explorations and probes as are necessary to ascertain any required protective measures before proceeding with demolition and removal. The Construction Manager at Risk shall give particular attention to shoring and bracing requirements so as to prevent any damage to new or existing construction.
- D. The Construction Manager at Risk shall provide, erect, and maintain catch platforms, lights, barriers, weather protection, warning signs and other items as required for proper protection of the public, occupants of the building, workmen engaged in demolition operations, and adjacent construction.

- E. The Construction Manager at Risk shall provide and maintain weather protection at exterior openings so as to fully protect the interior premises against damage from the elements until such openings are closed by new construction.
- F. The Construction Manager at Risk shall provide and maintain temporary protection of the existing structure designated to remain where demolition, removal and new work is being done, connections made, materials handled or equipment moved.
- G. The Construction Manager at Risk shall take necessary precautions to prevent dust from rising by wetting demolished masonry, concrete, plaster and similar debris. Unaltered portions of the existing buildings affected by the operations under this Section shall be protected by dust-proof partitions and other adequate means.
- H. The Construction Manager at Risk shall provide adequate fire protection in accordance with local Fire Department requirements.
- I. The Construction Manager at Risk shall not close or obstruct walkways, passageways, or stairways and shall not store or place materials in passageways, stairs or other means of egress. The Construction Manager at Risk shall conduct operations with minimum traffic interference.
- J. The Construction Manager at Risk shall be responsible for any damage to the existing structure or contents by reason of the insufficiency of protection provided.

3.03 WORKMANSHIP

- A. The demolition and removal work shall be performed as described in the Contract Documents. The work required shall be done with care, and shall include all required shoring, bracing, etc. The Construction Manager at Risk shall be responsible for any damage which may be caused by demolition and removal work to any part or parts of existing structures or items designated for reuse or to remain. The Construction Manager at Risk shall perform patching, restoration and new work in accordance with applicable Technical Sections of the Specifications and in accordance with the details shown on the Drawings. Prior to starting of work, the Construction Manager at Risk shall provide a detailed description of methods and equipment to be used for each operation and the sequence thereof for review by the Engineer.
- B. All supports, pedestals and anchors shall be removed with the equipment and piping unless otherwise specified or required. Concrete bases, anchor bolts and other supports shall be removed to approximately 1-inch below the surrounding finished area and the recesses shall be patched to match the adjacent areas. Superstructure wall and roof openings shall be closed, and damaged surfaces shall be patched to match the adjacent areas, as specified under applicable Sections of these Specifications, as shown on the Drawings, or as directed by the Engineer. Wall sleeves and castings shall be plugged or blanked off, all openings in concrete shall be closed in a manner meeting the requirements of the appropriate Sections of these Specifications, as shown on the Drawings, and as directed and approved by the Engineer.
- C. Materials or items designated to remain the property of the Owner shall be as hereinafter tabulated. Such items shall be removed with care and stored at a location at the site to be designated by the Owner.

- D. Where equipment is shown or specified to be removed and relocated, the Construction Manager at Risk shall not proceed with removal of this equipment without specific prior approval of the Engineer. Upon approval, and prior to commencing removal operations, the equipment shall be operated in the presence of representatives of the Construction Manager at Risk, Owner and Engineer. Such items shall be removed with care, under the supervision of the trade responsible for reinstallation and protected and stored until required. Material or items damaged during removal shall be replaced with similar new material or item. Any equipment that is removed without proper authorization and is required for plant operation shall be replaced at no cost to the Owner.
- E. Wherever piping is to be removed for disposition, the piping shall be drained by the Construction Manager at Risk and adjacent pipe and headers that are to remain in service shall be blanked off or plugged and then anchored in an approved manner.
- F. Materials or items demolished and not designated to become the property of the Owner or to be reinstalled shall become the property of the Construction Manager at Risk and shall be removed from the property and legally disposed of.
- G. The Construction Manager at Risk shall execute the work in a careful and orderly manner, with the least possible disturbance to the public and to the occupants of the building.
- H. In general, masonry shall be demolished in small sections, and where necessary to prevent collapse of any construction, the Construction Manager at Risk shall install temporary shores, struts, and bracing.
- I. Where alterations occur, or new and old work join, the Construction Manager at Risk shall cut, remove, patch, repair or refinish the adjacent surfaces to the extent required by the construction conditions, so as to leave the altered work in as good a condition as existed prior to the start of the work. The materials and workmanship employed in the alterations, unless otherwise shown on the Drawing or specified, shall comply with that of the various respective trades which normally perform the particular items or work.
- J. The Construction Manager at Risk shall finish adjacent existing surfaces to new work to match the specified finish for new work. The Construction Manager at Risk shall clean existing surfaces of dirt, grease, loose paint, etc., before refinishing.
- K. The Construction Manager at Risk shall cut out embedded anchorage and attachment items as required to properly provide for patching and repair of the respective finishes.
- L. The Construction Manager at Risk shall confine cutting of existing roof areas designated to remain to the limits required for the proper installation of the new work. The Construction Manager at Risk shall cut and remove insulation, etc., and provide temporary weather tight protection as required until new roofing and flashings are installed.
- M. The Construction Manager at Risk shall remove temporary work, such as enclosures, signs, guards, and the like when such temporary work is no longer required or when directed at the completion of the work.

3.04 MAINTENANCE

- A. The Construction Manager at Risk shall maintain the buildings, structures and public properties free from accumulations of waste, debris and rubbish, caused by the demolition and removal operations.
- B. The Construction Manager at Risk shall provide on-site dump containers for collection of waste materials, debris and rubbish, and he shall wet down dry materials to lay down and prevent blowing dust.
- C. At reasonable intervals during the progress of the demolition and removal work or as directed by the Engineer, the Construction Manager at Risk shall clean the site and properties, and dispose of waste materials, debris and rubbish.

3.05 EQUIPMENT AND MATERIALS RETAINED BY OWNER

- A. The following equipment and materials will be retained by the Owner:

This list will be added during the 90% submission of documents.

- B. The equipment and materials shall be moved by the Construction Manager at Risk to storage areas, on the site, to be designated by the Owner.

- END OF SECTION -

SECTION 01550SITE ACCESS AND STORAGEPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Access Roads

1. The Construction Manager at Risk shall construct and maintain such temporary access roads as required to perform the work of this Contract.
2. Access roads, where possible, shall be located over the areas of the future road system.
3. Access roads shall be located within the property lines of the Owner unless the Construction Manager at Risk independently secures easements for his use and convenience. Construction Manager at Risk shall submit written documentation to the Engineer for any Construction Manager at Risk secured easements across privately held property. Easement agreement shall specify terms and conditions of use and provisions for site restoration. A written release from the property owner certifying that all terms of the easement agreement have been complied by the Construction Manager at Risk shall be furnished to the Engineer prior to final payment.
4. Existing access roads used by the Construction Manager at Risk shall be suitably maintained by the Construction Manager at Risk at his expense during construction. Construction Manager at Risk shall not be permitted to restrict Owner access to existing facilities. Engineer may direct Construction Manager at Risk to perform maintenance of existing access roads when Engineer determines that such work is required to insure all weather access by the Owner.
5. Construction Manager at Risk shall obtain and pay all cost associated with any bonds required by the Kentucky Department of Transportation for the use of State maintained roads.

B. Parking Areas

1. Construction Manager at Risk shall construct and maintain suitable parking areas for his construction personnel on the project site where approved by the Engineer and the Owner.

C. Restoration

1. At the completion of the work, the surfaces of land used for access roads and parking areas shall be restored by each Construction Manager at Risk to its original condition and to the satisfaction of the Engineer. At a minimum, such restoration shall include establishment of a permanent ground cover adequate to restrain erosion for all disturbed areas.

D. Traffic Regulations

1. Construction Manager at Risk shall obey all traffic laws and comply with all the requirements, rules and regulations of the (KYDOT, etc.) and other local authorities having jurisdiction to maintain adequate warning signs, lights, barriers, etc., for the protection of traffic on public roadways.

E. Storage of Equipment and Materials

1. Construction Manager at Risk shall store his equipment and materials at the job site in accordance with the requirements of the General Conditions, the Supplemental Conditions, and as hereinafter specified. All equipment and materials shall be stored in accordance with manufacturer's recommendations and as directed by the Owner or Engineer, and in conformity to applicable statutes, ordinances, regulations and rulings of the public authority having jurisdiction. Where space or strip heaters are provided within the enclosure for motors, valve operators, motor starters, panels, instruments, or other electrical equipment, the Construction Manager at Risk shall make connections to these heaters from an appropriate power source and operate the heaters with temperature control as necessary until the equipment is installed and being operated according to its intended use.
2. Construction Manager at Risk shall enforce the instructions of Owner and Engineer regarding the posting of regulatory signs for loadings on structures, fire safety, and smoking areas.
3. Construction Manager at Risk shall not store materials or encroach upon private property without the written consent of the owners of such private property.
4. Construction Manager at Risk shall not store unnecessary materials or equipment on the job site, and shall take care to prevent any structure from being loaded with a weight which will endanger its security or the safety of persons.
5. Materials shall not be placed within ten (10) feet of fire hydrants. Gutters, drainage channels and inlets shall be kept unobstructed at all times.
6. Construction Manager at Risk shall provide adequate temporary storage buildings/facilities, if required, to protect materials or equipment on the job site.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01560TEMPORARY ENVIRONMENTAL CONTROLSPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Dust Control

1. Construction Manager at Risk shall take all necessary measures to control dust from his operations, and to prevent spillage of excavated materials on public roads.
2. Construction Manager at Risk shall remove all spillage of excavated materials, debris or dust from public roads by methods approved by the Engineer.
3. Construction Manager at Risk shall sprinkle water at locations and in such quantities and at such frequencies as may be required by the Engineer to control dust and prevent it from becoming a nuisance to the surrounding area.
4. Dust control and cleaning measures shall be provided at no additional cost to the Owner.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01590FIELD OFFICE, EQUIPMENT AND SERVICESPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Resident Representative's Field Office

1. The Construction Manager at Risk shall provide and maintain a field office for the exclusive use of the Engineer. The facilities shall be available for his use during the entire life of the Project, and shall not be disturbed, moved, or interrupted without the Engineer's approval. The office shall be a separate structure containing at least 720 square feet of floor area, sealed from the weather, completed and ready for occupancy within thirty (30) days following the Notice to Proceed with the Project. The office shall be erected on a location approved by the Engineer. The Construction Manager at Risk shall arrange for the office to be cleaned at least three (3) times every week in a manner satisfactory to the Engineer. a mobile field office trailer a minimum of 12 feet wide and 60 feet long is acceptable if it contains the required facilities.
2. All doors and windows shall be equipped with locking devices to prevent unauthorized entry, and all keys to the door locks shall be loaned to the Engineer for his use during the life of the project. Main entrance to office shall have a 72 square foot minimum covered porch with a separate roof and rainproof seal to the main structure. The office shall contain adequate heating, air conditioning, and ventilating facilities. Adequate electric lights shall be provided with a wall receptacle on each of the four walls. Functional, totally enclosed water closet and lavatory shall be provided.
3. An individual, direct-line telephone service with outside bell shall be located as directed for the exclusive use of the Engineer. High speed internet service shall be provided for the duration of the contract. Telephone service for all calls relation to the work including long distance and internet service, all heat, light, water and sanitary facilities shall be furnished and paid for by the Construction Manager at Risk.
4. A 24-inch by 36-inch plywood sign shall be erected on the outside wall of the field office in a location determined by the Engineer. The sign shall be painted white with green, 3-inch high lettering, neatly arranged, as indicated herein.

Field Office
HAZEN, P.C.

5. The following office furniture and equipment shall be furnished:
 - 2 Flat top desks, 2-1/2 x 5 feet, with drawers at each end
 - 1 Plywood drawing table, 3 feet x 6 feet tilt top with drafting stool
 - 10 Straight chairs
 - 2 Four-drawer, legal size steel filing cabinets with lock and key

- 2 Large metal waste baskets
- 1 Rack from which to hang drawings, including related appurtenances
- 2 Wall-mounted fire extinguishers
- 1 Electric water cooler with bottle water supply and disposable drink cups
- 2 Metal office folding tables 30 inches x 60 inches (minimum)
- 2 Bookcases with 3 shelves, 3 feet long
- 1 First Aid Cabinet
- 3 Tilt/swivel type desk chairs
- 1 Copying machine, with fax and printer capabilities and with local service contract

5. On completion of the project, the field office shall be removed from the site.

B. The copy machine shall be Hewlett Packard Office Jet T45 Color All-in-One Machine, or equal.

C. First Aid Cabinet shall conform to the OSHA requirements for an office of up to 15 persons or a construction site of up to 5 persons.

D. Construction Manager at Risk Field Office

- 1. Construction Manager at Risk shall furnish, equip and maintain a field office at the site of a size required for his operations. Each Contractor shall provide his own telephone service and shall have readily accessible at the field office, copies of the Contract Documents, latest approved Shop Drawings and all field Project related correspondence, Change Order, etc.

E. Project Sign and Sign Panel

- 1. The Construction Manager at Risk shall erect a sign at the Project site identifying the Project. **The sign shall be erected within twenty-one (21) days after the Notice to Proceed**, and shall be in accordance with the Specifications and details included in this Section. The project sign and sign panel shall be furnished, erected, and maintained by the Construction Manager at Risk at the location designated by the Engineer. Wording and colors shall be as shown on the detail after the end of this Section.
- 2. The project sign shall be fabricated, erected and maintained by the Construction Manager at Risk in accordance with the following specifications:
 - a) Sign Panel: The sign panel shall be constructed of 3/4 inch minimum thickness marine plywood rabbeted into a 2 inch x 4 inch wood frame. All fasteners used in the construction of the sign shall be of a rustproof nature.
 - b) Painting: All supports, trim and back of the sign panel shall be painted with at least two (2) coats of the same paint used for the sign face. All paint used shall be exterior grade paint, suitable for use on wood signs.
 - c) Sign Supports: The supports for the project sign shall be at least two 4" by 4" treated wood posts. The sign panel shall be securely fastened to the sign supports with at least six (6) 3/8 ϕ galvanized bolts, nuts and washers. The positioning and alignment of the sign shall be as determined by the Engineer.

- d) Maintenance: The project sign shall be maintained by the Construction Manager at Risk, in good condition, at all times, for the duration of construction.
- e) Removal of Sign from Project Site: The removal of the project sign from the construction site by the Construction Manager at Risk shall be at the completion of construction, when ordered by the Engineer.
- f) Payment: The cost of the fabrication, erection, maintenance, and removal of the project sign, including all labor and materials, shall be included in the Construction Manager at Risk. No extra payment will be made for obliterating certain names and offices and replacement thereof of others because of administrative changes during the course of this Contract.

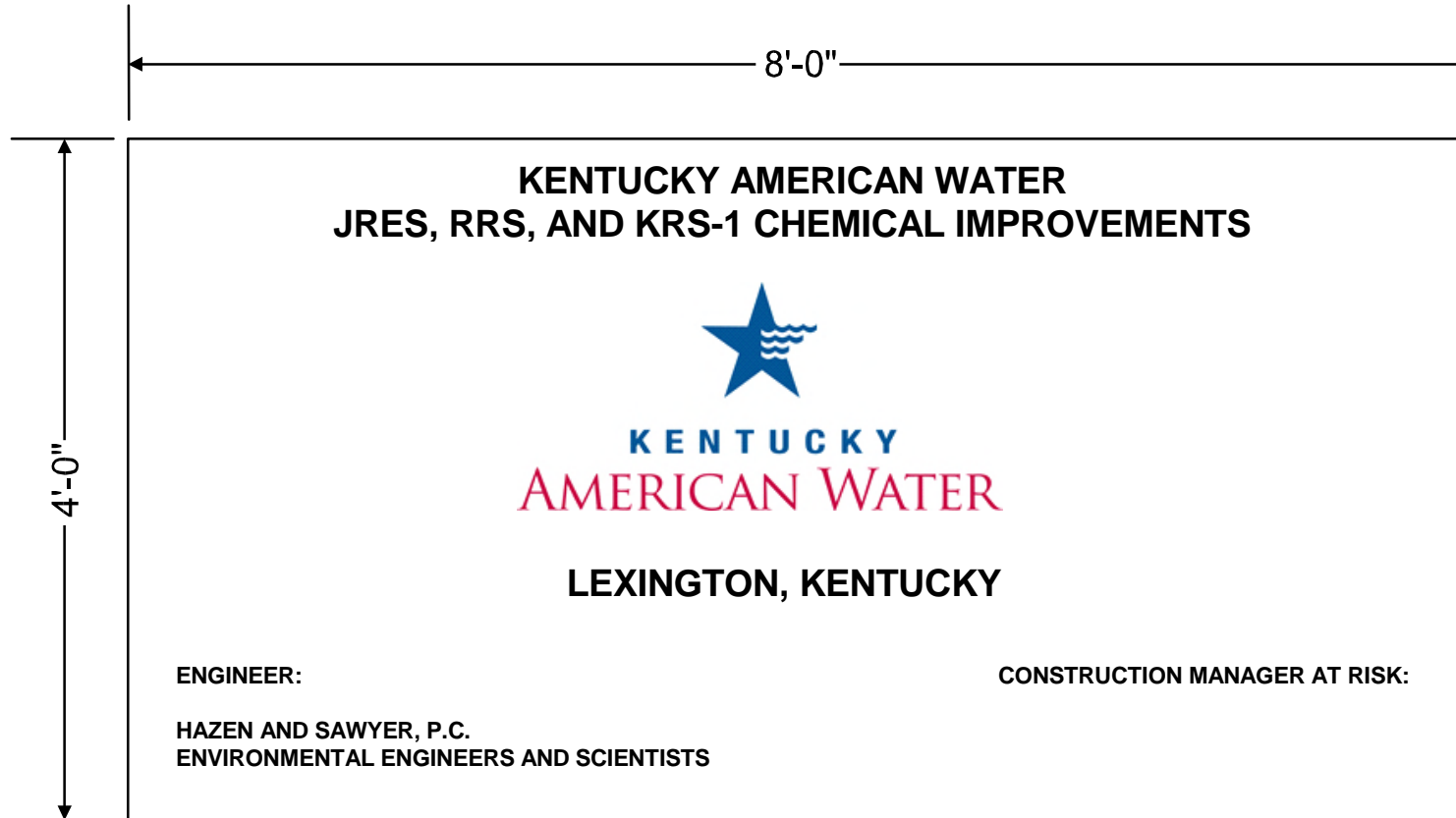
PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -



1. Provide black letters on white background.
2. Use of 1/2" duraply signboard with vinyl lettering will be acceptable as an alternate to plywood and painted letters.

SECTION 01600MATERIALS AND EQUIPMENTPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Furnish and Install

1. Where the words "furnish", "provide", "supply", "replace", or "install" are used, whether singularly or in combination, they shall mean to furnish and install, unless specifically stated otherwise.
2. In the interest of brevity, the explicit direction "to furnish and install" has sometimes been omitted in specifying materials and/or equipment herein. Unless specifically noted otherwise, it shall be understood that all equipment and/or materials specified or shown on the Drawings shall be furnished and installed under the Contract as designated on the Drawings.

B. Concrete Foundations for Equipment

1. Construction Manager at Risk shall provide all concrete foundations shown, specified or required for all equipment furnished under their respective Contract.
2. Anchor bolts and templates for equipment foundations shall be furnished under the respective Contracts for installation by the respective Contractor. The Construction Manager at Risk shall cooperate with the respective Contractors to secure a satisfactory installation and to maintain the schedule of construction.
3. All concrete foundations for equipment shall be treated, by the respective Contractor, with an approved sealer to prevent oil from seeping into the concrete.

1.02 EQUIPMENT AND MATERIALS

- A. All equipment, materials, instruments or devices incorporated in this project shall be new and unused, unless indicated otherwise in the Contract Documents. Equipment and materials to be incorporated into the work shall be delivered sufficiently in advance of their installation and use to prevent delay in the execution of the work, and they shall be delivered as nearly as feasible in the order required for executing the work.
- B. Construction Manager at Risk shall protect all equipment and materials from deterioration and damage, including provisions for temporary storage buildings as needed and as specified in Section 01550, Site Access and Storage. Storage of equipment and materials shall be in locations completely protected from flooding, standing water, excessive dust, falling rock, brush fire, etc. Storage areas shall be located sufficiently distant from all construction activities and the movement of construction vehicles to minimize the potential for accidental damage. Any equipment or materials of whatever kind which may have become damaged or deteriorated from any cause shall be removed and replaced by good

and satisfactory items at the Construction Manager at Risk's expense for both labor and materials.

1.03 INSTALLATION OF EQUIPMENT

- A. Equipment and materials shall be installed in accordance with the requirements of the General Conditions, Supplemental Conditions and the respective Specification Sections.
- B. Concrete foundations for equipment shall be of approved design and shall be adequate in size, suitable for the equipment erected thereon, properly reinforced, and tied into floor slabs by means of reinforcing bars or dowels. Foundation bolts of ample size and strength shall be provided and properly positioned by means of suitable templates and secured during placement of concrete. Foundations shall be built and bolts installed in accordance with the manufacturer's certified drawings.
- C. Before mounting equipment on a foundation, the Construction Manager at Risk shall clean the top surface; if necessary, rough it with a star chisel and clean again; and clean out all foundation bolt sleeves. The Construction Manager at Risk shall provide a sufficient number of steel plate shims about 2-inches wide and 4-inches long, and of a varying thickness from 1/8 to 1/2-inch. A combination of these shims shall be placed next to each foundation bolt to bring the bottom of the bedplate or frame about 1/8-inch above the final setting. The equipment shall be lowered by changing the combination of shims. Using brass shim stock of various thicknesses, continue to level the equipment a little at a time and in rotation until it is at the correct elevation in both directions. When the equipment is level, tighten down on the foundation bolts a little at a time in rotation to make certain the equipment remains level and does not shift on the shims. A preliminary alignment check shall be made before grout is placed.
- D. Equipment shall be set, aligned and assembled in conformance with manufacturer's drawings or instructions. Run out tolerances by dial indicator method of alignment shall be plus or minus .002-inches, unless otherwise approved by the Engineer.
- E. All blocking and wedging required for the proper support and leveling of equipment during installation shall be furnished by the Construction Manager at Risk. All temporary supports shall be removed, except steel wedges and shims, which may be left in place with the approval of the Engineer.
- F. Each piece of equipment or supporting base, bearing on concrete foundations, shall be bedded in grout. The Construction Manager at Risk shall provide a minimum of 1-1/2-inch thick grouting under the entire baseplate supporting each pump, motor drive unit and other equipment. Grout shall be non-shrink grout, as specified under Section 03600, Grout.
- G. When motors are shipped separately from driven equipment, the motors shall be received, stored, meggered once a month, and the reports submitted to the Engineer. After driven equipment is set, the motors shall be set, mounted, shimmed, millrighted, coupled and connected complete.

1.04 CONNECTIONS TO EQUIPMENT

- A. Connections to equipment shall follow manufacturer's recommendations as to size and arrangement of connections and/or as shown in detail on the Drawings or approved Shop Drawings. Piping connections shall be made to permit ready disconnection of equipment with minimum disturbance of adjoining piping and equipment.

- B. The Electrical Contractor or Construction Manager at Risk if no electrical contract exists shall be responsible for bringing proper electrical service to each item of equipment requiring electrical service as shown on the Drawings or approved Shop Drawings. Electrical connections to equipment requiring electrical service shall be made by the Electrical Contractor, unless otherwise indicated on the Drawings or in the Technical Specifications.
- C. The HVAC Contractor or Construction Manager at Risk if no HVAC Contract exists shall bring and connect HVAC service to all equipment items requiring same as shown on the Drawings. Electrical connections to equipment requiring electrical service shall be made by the Electrical Contractor, unless otherwise indicated on the Drawings or in the Technical Specifications.
- D. The Plumbing Contractor or Construction Manager at Risk if no plumbing contract exists shall bring and connect plumbing service to all equipment items requiring same as shown on the Drawings.

1.05 SUBSTITUTIONS

- A. Requests for substitutions of equipment or materials shall conform to the requirements of the General Conditions, Supplemental Conditions, and as hereinafter specified.
 - 1. Construction Manager at Risk shall submit for each proposed substitution sufficient details, complete descriptive literature and performance data together with samples of the materials, where feasible, to enable the Owner and Engineer to determine if the proposed substitution is equal.
 - 2. Construction Manager at Risk shall submit certified tests, where applicable, by an independent laboratory attesting that the proposed substitution is equal.
 - 3. A list of installations where the proposed substitution is equal.
 - 4. Requests for substitutions shall include full information concerning differences in cost, and any savings in cost resulting from such substitutions shall be passed on to the Owner.
- B. Where the approval of a substitution requires revision or redesign of any part of the work, including that of other Contracts, all such revision and redesign, and all new drawings and details therefore, shall be provided by the Construction Manager at Risk at his own cost and expense, and shall be subject to the approval of the Owner and Engineer.
- C. In the event that the Engineer is required to provide additional engineering services, then the Engineer's charges for such additional services shall be charged to the Construction Manager at Risk by the Owner in accordance with the requirements of the General Conditions, and the Supplemental Conditions.
- D. In all cases the Owner and Engineer shall be the judge as to whether a proposed substitution is to be approved. Construction Manager at Risk shall abide by their decision when proposed substitute items are judged to be unacceptable and shall in such instances furnish the item specified or indicated. No substitute items shall be used in the work without written approval of the Owner and Engineer.

- E. Construction Manager at Risk shall have and make no claim for an extension of time or for damages by reason of the time taken by the Engineer in considering a substitution proposed by the Construction Manager at Risk or by reason of the failure of the Engineer to approve a substitution proposed by the Construction Manager at Risk.
- F. Acceptance of any proposed substitution shall in no way release the Construction Manager at Risk from any of the provisions of the Contract Documents.

PART 2 -- PRODUCTS

(NOT USED)

PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -

SECTION 01700PROJECT CLOSEOUTPART 1 -- GENERAL

1.01 THE REQUIREMENT

A. Final Cleaning

1. At the completion of the work, the Construction Manager at Risk shall remove all rubbish from and about the site of the work, and all temporary structures, construction signs, tools, scaffolding, materials, supplies and equipment which he or any of his Subcontractors may have used in the performance of the work. Construction Manager at Risk shall broom clean paved surfaces and rake clean other surfaces of grounds.
2. Construction Manager at Risk shall thoroughly clean all materials, equipment and structures; all marred surfaces shall be touched up to match adjacent surfaces; dirty filters and burned out lights replaced as required; all glass surfaces cleaned and floors cleaned and polished so as to leave work in a clean and new appearing condition.
3. Construction Manager at Risk shall maintain cleaning until project, or portion thereof, is occupied by the Owner.

B. Lubrication Survey

1. A lubrication survey, made by a lubricant supply firm, subject to the approval of the Owner shall be provided and paid for by the Construction Manager at Risk.
2. The lubrication survey shall list all equipment, the equipment manufacturer's lubrication recommendations, and an interchangeable lubricants tabulation standardizing and consolidating lubricants whenever possible.
3. The Construction Manager at Risk shall supply all lubricants, applicators and labor for lubricating the equipment, in accordance with manufacturer's recommendations, for field testing and prior to final acceptance. A supply of required lubricants sufficient for start-up and one year of operation shall also be supplied by the Construction Manager at Risk.
4. Five (5) copies and one electronic copy of the approved lubrication survey shall be furnished to the Engineer prior to final acceptance.

C. Spare Parts and Special Tools

1. As soon as practicable after approval of the list of equipment, the Construction Manager at Risk shall furnish spare parts data for each different item of equipment listed. The data shall include a complete list of parts and supplies, with current unit prices and source or sources of supply.

2. Construction Manager at Risk shall also furnish a list of parts, and supplies that are either normally furnished at no extra cost with the purchase of the equipment or specified to be furnished as part of the Contract and a list of additional items recommended by the manufacturer to assure efficient operation for a period of one-hundred and twenty (120) days for the particular installation.
3. All parts shall be securely boxed and tagged, and clearly marked on the box and individually for identification as to the name of manufacturer or supplier, applicable equipment, part number, description and location in the equipment. All parts shall be protected and packaged for a shelf life of at least ten (10) years.
4. Construction Manager at Risk shall furnish at no additional cost to the Owner with each piece of equipment as a minimum, one (1) complete set, or the number of sets called for in the Technical Specifications, of suitably marked special tools and appliances which may be needed to adjust, operate, maintain, or repair the equipment.
5. Construction Manager at Risk shall submit, for approval by the Engineer, a complete list of the special tools and appliances to be furnished. Such tools and appliances shall be furnished in approved painted steel cases properly labeled and equipped with good grade cylinder locks and duplicate keys.

D. Equipment Start-Up Services

1. Equipment start-up period, for the training of plant personnel, shall begin after satisfactory completion and acceptance of the field tests and coincidentally with the certified date of substantial completion for the part of the work for which the equipment is included. If the equipment is not covered by a certificate of substantial completion for a part of the work, the period shall begin upon substantial completion of the project.
2. During the equipment start-up period the Construction Manager at Risk shall furnish, at no additional cost to the Owner the services of factory trained representatives of the equipment manufacturers for the equipment designated in the Specifications to:
 - a. Assist in the start-up and operations of the equipment.
 - b. Assist in the training of plant personnel, designated by the Owner in the proper operation and maintenance of the equipment.
3. The Owner shall:
 - a. Provide the necessary plant personnel to be instructed in the operation and maintenance of the equipment. The Owner's personnel shall operate all equipment.
 - b. Pay for all fuel, power and chemicals consumed beyond quantities specified in the Contract Documents. The Construction Manager at Risk shall pay for fuel, power, and chemicals consumed up to the date of "certified substantial completion" except as otherwise specified herein.

4. Construction Manager at Risk shall be available to promptly repair all work during the start-up period so as to cause minimum disruption to the total plant operation.
5. Upon completion of a minimum of ten (10) consecutive and continuous days of satisfactory operation, or the number of days called for in the Technical Specifications, the Owner will assume operation and operating cost of the equipment. If the equipment malfunctions during this start-up period, the start-up period will be repeated until satisfactory operation is achieved.
6. In the event a system, equipment or component proves defective or is unable to meet specified performance criteria, the Construction Manager at Risk shall replace the defective item and the minimum one (1) year guarantee period, or the guarantee period called for in the Technical Specifications for the item shall start after satisfactory replacement and testing of the item.

E. Final Cleanup; Site Rehabilitation

1. Before finally leaving the site, the Construction Manager at Risk shall wash and clean all exposed surfaces which have become soiled or marked, and shall remove from the site of work all accumulated debris and surplus materials of any kind which result from his operation, including construction equipment, tools, sheds, sanitary enclosures, etc. The Construction Manager at Risk shall leave all equipment, fixtures, and work, which he has installed, in a clean condition. The completed project shall be turned over to the Owner in a neat and orderly condition.
2. The site of the work shall be rehabilitated or developed in accordance with other sections of the Specifications and the Drawings. In the absence of any portion of these requirements, the Construction Manager at Risk shall completely rehabilitate the site to a condition and appearance equal or superior to that which existed just prior to construction, except for those items whose permanent removal or relocation was required in the Contract Documents or ordered by the Owner.

F. Final Inspection

1. Final cleaning and repairing shall be so arranged as to be finished upon completion of the construction work. The Construction Manager at Risk will make his final cleaning and repairing, and any portion of the work finally inspected and accepted by the Engineer shall be kept clean by the Construction Manager at Risk, until the final acceptance of the entire work.
2. When the Construction Manager at Risk has finally cleaned and repaired the whole or any portion of the work, he shall notify the Engineer that he is ready for final inspection of the whole or a portion of the work, and the Engineer will thereupon inspect the work. If the work is not found satisfactory, the Engineer will order further cleaning, repairs, or replacement.
3. When such further cleaning or repairing is completed, the Engineer, upon further notice, will again inspect the work. The "Final Payment" will not be processed until the Construction Manager at Risk has complied with the requirements set forth, and the Engineer has made his final inspection of the entire work and is satisfied that the entire work is properly and satisfactorily constructed in accordance with the requirements of the Contract Documents.

G. Project Close Out

1. As construction of the project enters the final stages of completion, the Construction Manager at Risk shall, in concert with accomplishing the requirements set forth in the Contract Documents, attend to or have already completed the following items as they apply to his contract:
 - a. Scheduling equipment manufacturers' visits to site.
 - b. Required testing of project components.
 - c. Scheduling start-up and initial operation.
 - d. Scheduling and furnishing skilled personnel during initial operation.
 - e. Correcting or replacing defective work, including completion of items previously overlooked or work which remains incomplete, all as evidenced by the Engineer's "Punch" Lists.
 - f. Attend to any other items listed herein or brought to the Construction Manager at Risk's attention by the Engineer.
2. Just before the Engineer's Certificate of Substantial Completion is issued, the Construction Manager at Risk shall accomplish the cleaning and final adjustment of the various building components as specified in the Specifications and as follows:
 - a. Clean all glass and adjust all windows and doors for proper operation.
 - b. Clean all finish hardware after adjustment for proper operation.
 - c. Touch up marks or defects in painted surfaces and touch up any similar defects in factory finished surfaces.
 - d. Wax all resilient flooring materials.
 - e. Remove bitumen from gravel stops, fascias, and other exposed surfaces.
 - f. Remove all stains, marks, fingerprints, soil, spots, and blemishes from all finished surfaces, tile, stone, brick, and similar surfaces.
3. In addition, and before the Certificate of Substantial Completion is issued, the Construction Manager at Risk shall submit to the Engineer (or to the Owner if indicated) certain records, certifications, etc., which are specified elsewhere in the Contract Documents. A partial list of such items appears below, but it shall be the Construction Manager at Risk's responsibility to submit any other items which are required in the Contract Documents:
 - a. Test results of project components.
 - b. Performance Affidavits for equipment.

- c. Certification of equipment or materials in compliance with Contract Documents.
 - d. Operation and maintenance instructions or manuals for equipment.
 - e. One set of neatly marked-up record drawings showing as-built changes and additions to the work under his Contract.
 - f. Any special guarantees or bonds (Submit to Owner).
 - g. Licensed surveyor's report showing elevations of weirs specified in the Contract Drawings and the final surveyed elevation.
4. The Construction Manager at Risk's attention is directed to the fact that required certifications and information under Item 3 above, must actually be submitted earlier in accordance with other Sections of the Specifications.

PART 2 -- PRODUCTS

(NOT USED)

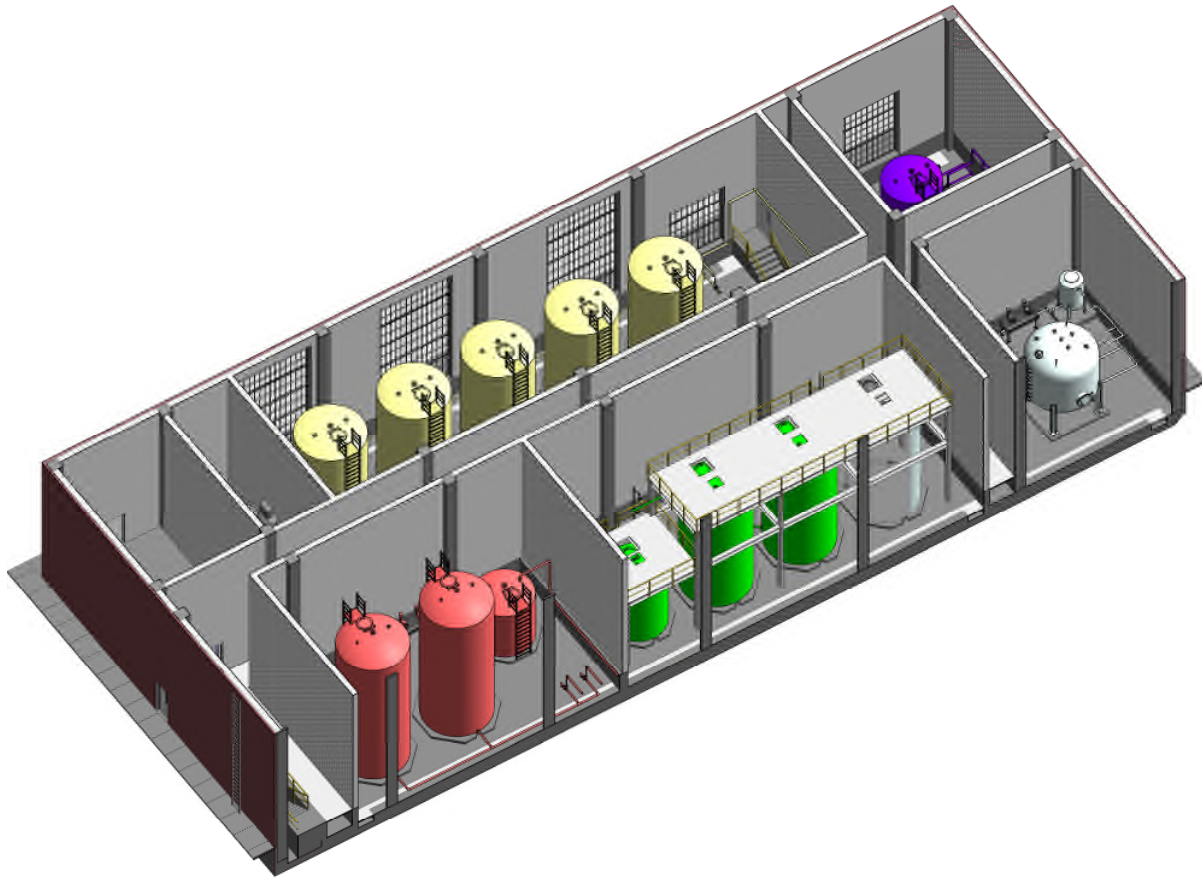
PART 3 -- EXECUTION

(NOT USED)

- END OF SECTION -



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Kentucky American Water RRS and KRS-1 Chemical Improvements Project Basis of Design Memorandum

December 2017

Hazen *Memorandum*

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Section 8	HVAC and Plumbing Requirements
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Section 12	Maintenance of Plant Operation During Construction
Section 13	Acceptable Equipment Manufacturers
Section 14	Design Drawings

Hazen *Memorandum*

Section 1. Overview

1.1 Existing Treatment Facilities

Kentucky American Water (KAW) owns and operates the Richmond Road Station Water Treatment Plant (RRS), a 25-mgd plant with facilities up to 90 years old, and the Kentucky River Station 1 Water Treatment Plant (KRS-1), a 45-mgd plant built in the late 1950s. These two plants along with the Kentucky River Station 2 plant provide drinking water to half a million customers in the central Kentucky service area.

RRS can draw raw water either directly from the Kentucky River “Pool 9” or from Jacobson Reservoir, and both are served from the transfer pump station at the KRS-1 plant. The operation of RRS, including chemical feed strategies and chemical application points, is dictated by the raw water source. KRS-1 low service pumps provide raw water from Kentucky River “Pool 9” directly to the KRS-1 plant.

The Jacobson Reservoir Pump Station currently has chemical storage and feed facilities for sodium permanganate. RRS has two chemical buildings that house their chemicals. Chemical Building Number 1 houses gaseous chlorine and sodium hydroxide (caustic). Chemical Building Number 2 houses powdered activated carbon (PAC), gaseous ammonia, polymer, polyaluminum chloride (PACl), fluoride, and corrosion inhibitor (phosphate). Similarly, KRS-1’s existing chemical facilities are located in two main areas. A chemical building constructed in 1994 houses ferric chloride, PACl, fluoride, caustic, phosphate, polymer, PAC, and sodium permanganate systems. The distribution pumping building houses gaseous chlorine and ammonia systems.

Several of the existing chemical storage and feed systems present operational challenges because the systems are aging, present safety concerns, and/or application points are not at the optimal treatment location. KAW has therefore contracted with Hazen and Sawyer to provide chemical systems improvements.

1.2 Chemical Systems Improvements Project

The current challenges faced by KAW include aging chemical storage and feed equipment, limited chemical storage and feed capacity, safety concerns for certain chemicals, and lack of optimized application points. The Chemical Improvements Project will provide solutions to these challenges.

The RRS and KRS-1 Chemical Improvements project includes upgrades to the storage and feed equipment for several of the plants’ chemical systems, including:

- Sodium permanganate relocation from Jacobson Reservoir to RRS
- Polyaluminum chloride, polymer, fluoride, and phosphate at RRS
- Powdered activated carbon relocation from RRS to Jacobson Reservoir
- Ferric chloride and sodium permanganate at KRS-1

Hazen Memorandum

Additionally, the project will include the conversion of several chemicals applied at both RRS and KRS-1, including:

- Gaseous chlorine to sodium hypochlorite
- Gaseous ammonia to ammonium hydroxide (aqua ammonia)
- Caustic to liquid lime

However, the application points for each new chemical will remain the same as the existing chemical.

Chemical systems will be provided at the locations as shown in [Table 1.1](#). The primary application point(s) for each chemical is shown in bold, and auxiliary application points are also listed.

Table 1.1 New Chemical Systems

Chemical	Purpose	Application Points
Jacobson Reservoir		
Powdered Activated Carbon	Taste and Odor Removal	Raw Water
Richmond Road Station WTP		
Sodium Permanganate	Fe and Mn, Taste and Odor, TOC Removal	Rapid Mix
Polyaluminum Chloride	Coagulation	Rapid Mix
Liquid Lime	pH Adjustment	Rapid Mix, Chlorine Contact Basin Effluent
Polymer	Coagulant Aid	Rapid Mix
Sodium Hypochlorite	Disinfection	Raw Water Control Vaults, Filter Inlet Box, Filter Effluent Structure , Chlorine Contact Basin Effluent
Aqua Ammonia	Disinfection	Chlorine Contact Basin Effluent
Fluoride	Fluoridation	Chlorine Contact Basin Effluent
Phosphate	Corrosion Inhibitor	Chlorine Contact Basin Effluent
Kentucky River Station 1 WTP		
Sodium Permanganate	Fe and Mn, Taste and Odor, TOC Removal	Low Service Pump Station Discharge, Rapid Mix
Ferric Chloride	Coagulation	Rapid Mix
Liquid Lime	pH Adjustment	Rapid Mix, N/S Filter Effluent
Sodium Hypochlorite	Disinfection	Rapid Mix, Filter Influent , N/S Filter Effluent
Aqua Ammonia	Disinfection	N/S Filter Effluent

A process schematic for Jacobson Reservoir and RRS, including chemical application points, is shown on [Drawing G20](#). A process schematic for KRS-1, including chemical application points, is shown on [Drawing G30](#).

Hazen *Memorandum*

The Jacobson Reservoir Pump Station, RRS, and KRS-1 will all remain in service during all phases of construction. Any individual system shutdowns for connection of chemical piping or similar modifications will be minimized and completed in the timeframe pre-arranged and approved by KAW. Details of the plan to maintain plant operations during construction are outlined in [Section 12](#).

Equipment will be sized according to the plant flow rates and chemical doses provided by KAW and with consultation of American Water T-2 Standards. Equipment will be sized and laid out assuming design around the manufacturers listed in the Acceptable Equipment Manufacturers List in [Section 13](#).

Details of these improvements are provided in [Section 4](#) of the Basis of Design Memorandum.

DRAFT

Hazen *Memorandum*

Section 2. Project Schedule

The KAW RRS and KRS-1 Chemical Improvements project will merge all phases of project design, equipment procurement, and construction to expedite the overall project schedule.

Preliminary design for the project began immediately following the Award of Contract. Hazen and Sawyer (Hazen) prepared a design critique based on alternatives discussed in the Proposal for review by KAW, and a project Kickoff Meeting took place on July 5, 2017.

The draft Basis of Design Memorandum was submitted for review by KAW. After KAW had the opportunity to review the draft Memorandum, the Draft Basis of Design Review Meeting took place in November 2017.

Hazen has incorporated KAW's design review comments into the Design Memorandum and has prepared preliminary drawings. The Design Memorandum and drawings are being sent to KAW for review in late December 2017. After KAW has had the opportunity to review the Design Memorandum and drawings, the 30% design review meeting will be held in January 2018. Planning for the Construction Manager at Risk (CMAR) will also be discussed at the time of the 30% design review meeting. A final Design Memorandum incorporating review comments shall be submitted to KAW after the meeting.

Following the meeting, Hazen will assist KAW with the solicitation for a CMAR. A CMAR selection meeting will be held in February 2017.

Hazen will then prepare 60% Drawings and Specifications for review by KAW in late April 2018. A 60% Design Review Meeting will take place in early May 2018, including I&C discussions. A constructability and value engineering review will be performed after the 60% Design Review Meeting, and the selected CMAR will provide a preliminary guaranteed maximum price (GMP) to KAW.

At this point in design, the CMAR will produce procurement packages with Hazen for the long-lead equipment items for review by KAW. Procurement packages will be required for the carbon slurry mixers, chemical tanks, transfer pumps, and metering pumps. After approval, these packages will be released for procurement.

90% design documents will be prepared and provided to KAW for review in late September 2018. At this time, the CMAR will provide a final GMP to KAW. The permitting process will be carried out as detailed in Section 3 after the 90% design submittal. The schedule shows a submittal review time of approximately three months for all permit applications.

A 90% Design Review Meeting will be held in September 2018. Based on discussions at this review meeting, 100% drawings and specifications will be prepared and submitted to KAW by the end of October 2018.

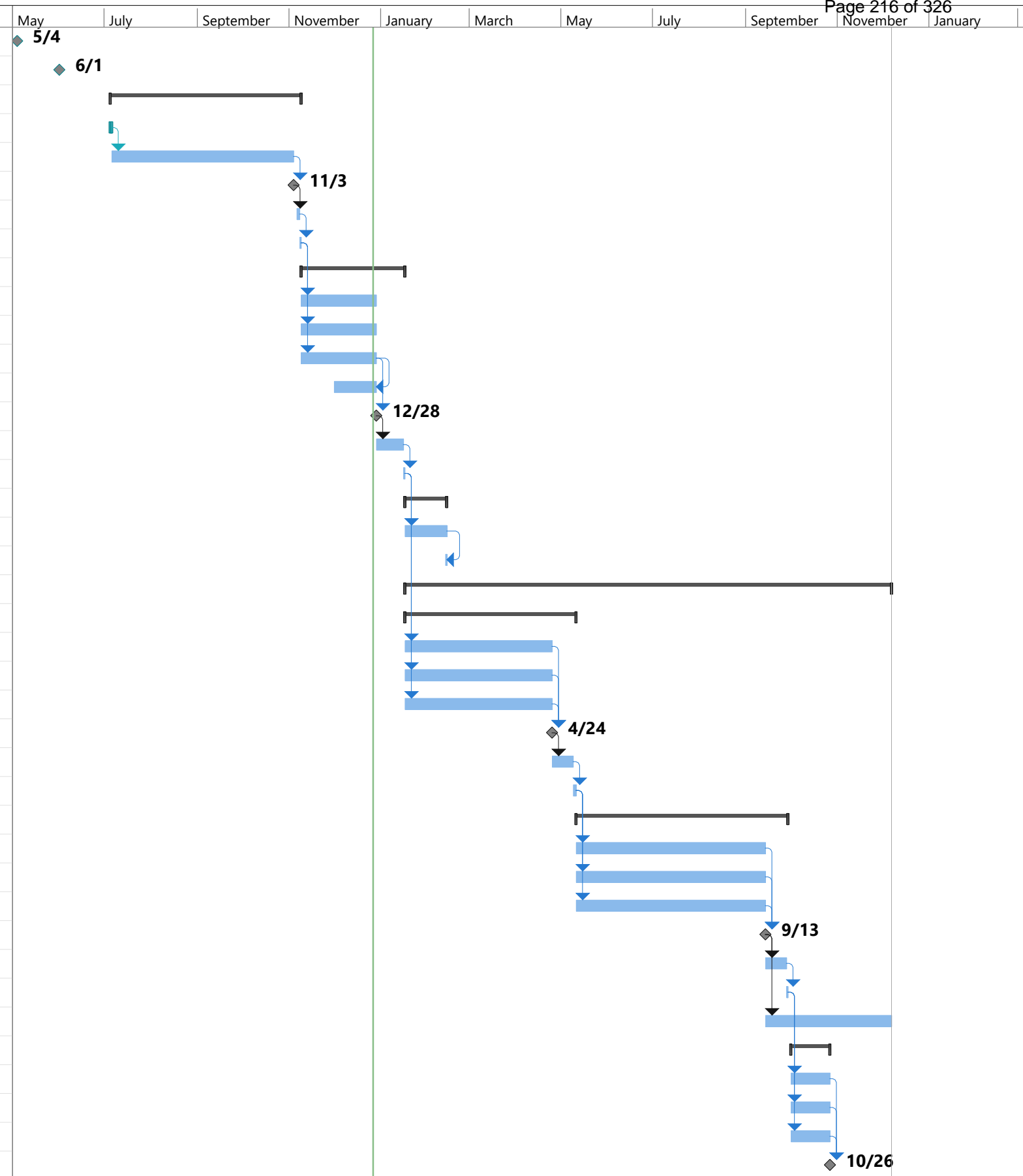
The construction phase of the project is expected to commence before the end of 2018 with priority – as permitting approval allows - towards RRS and Jacobson Reservoir, followed by KRS-1.

Hazen *Memorandum*

Figure 2.1 shows the project schedule from the date of award through final design. The schedule will be updated with each design phase submittal.

DRAFT

ID	Task Name	Duration	Start	Finish	May	July	September	November	January	March	May	July	September	November	January
1	Proposals for Engineering Services Due	0 days	Thu 5/4/17	Thu 5/4/17	◆ 5/4										
2	Design Notice to Proceed	0 days	Thu 6/1/17	Thu 6/1/17		◆ 6/1									
3	Phase I: Scoping Meeting and Basis of Design Development	91 days	Wed 7/5/17	Wed 11/8/17											
4	Kickoff/Scoping Meeting	1 day	Wed 7/5/17	Wed 7/5/17											
5	Design Memorandum Draft Preparation	4.35 mons	Thu 7/6/17	Fri 11/3/17											
6	Design Concept and Draft Submittal to KAW	0 days	Fri 11/3/17	Fri 11/3/17											
7	KAW Review	2 days	Mon 11/6/17	Tue 11/7/17											
8	Draft Basis of Design Workshop	1 day	Wed 11/8/17	Wed 11/8/17											
9	Phase II: Prepare 30% Design	49 days	Thu 11/9/17	Tue 1/16/18											
10	Jacobson Reservoir: 30% Design Preparation	36 days	Thu 11/9/17	Thu 12/28/17											
11	RRS: 30% Design Preparation	36 days	Thu 11/9/17	Thu 12/28/17											
12	KRS-1: 30% Design Preparation	36 days	Thu 11/9/17	Thu 12/28/17											
13	Development of Construction Cost Estimates	4 wks	Fri 12/1/17	Thu 12/28/17											
14	Design Memorandum and 30% Design Submittal to KAW	0 days	Thu 12/28/17	Thu 12/28/17											
15	KAW Review	12 days	Fri 12/29/17	Mon 1/15/18											
16	30% Design and Memo Review Meeting	1 day	Tue 1/16/18	Tue 1/16/18											
17	Phase III: Assistance with CMAR Selection	20 days	Wed 1/17/18	Tue 2/13/18											
18	Assistance with Solicitation of CMAR	1 mon	Wed 1/17/18	Tue 2/13/18											
19	CMAR Selection Meeting	1 day	Tue 2/13/18	Tue 2/13/18											
20	Phase IV: Prepare 60-100% Design with CMAR Involvement	232 days	Wed 1/17/18	Thu 12/6/18											
21	Prepare 60% Design	82 days	Wed 1/17/18	Thu 5/10/18											
22	Jacobson Reservoir: 60% Design Preparation	3.5 mons	Wed 1/17/18	Tue 4/24/18											
23	RRS: 60% Design Preparation	3.5 mons	Wed 1/17/18	Tue 4/24/18											
24	KRS-1: 60% Design Preparation	3.5 mons	Wed 1/17/18	Tue 4/24/18											
25	60% Design Submittal to KAW	0 days	Tue 4/24/18	Tue 4/24/18											
26	KAW Review	10 days	Wed 4/25/18	Tue 5/8/18											
27	60% Design and I&C Review Meeting	2 days	Wed 5/9/18	Thu 5/10/18											
28	Prepare 90% Design	101 days	Fri 5/11/18	Fri 9/28/18											
29	Jacobson Reservoir: 90% Design Preparation	4.5 mons	Fri 5/11/18	Thu 9/13/18											
30	RRS: 90% Design Preparation	4.5 mons	Fri 5/11/18	Thu 9/13/18											
31	KRS-1: 90% Design Preparation	4.5 mons	Fri 5/11/18	Thu 9/13/18											
32	90% Design Submittal to KAW	0 days	Thu 9/13/18	Thu 9/13/18											
33	KAW Review	10 days	Fri 9/14/18	Thu 9/27/18											
34	90% Design Review Meeting	1 day	Fri 9/28/18	Fri 9/28/18											
35	Permitting Submittal, Review, and Approval	3 mons	Fri 9/14/18	Thu 12/6/18											
36	Prepare 100% Design	20 days	Mon 10/1/18	Fri 10/26/18											
37	Jacobson Reservoir: 100% Design Preparation	1 mon	Mon 10/1/18	Fri 10/26/18											
38	RRS: 100% Design Preparation	1 mon	Mon 10/1/18	Fri 10/26/18											
39	KRS-1: 100% Design Preparation	1 mon	Mon 10/1/18	Fri 10/26/18											
40	100% Design Submittal to KAW	0 days	Fri 10/26/18	Fri 10/26/18											



Task Milestone Summary

2.1 Kentucky American Water RRS and KRS-1 Chemical Improvements Project Schedule

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Section 3. Project Permits

This section outlines the permitting requirements for the RRS and KRS-1 Chemical Improvements project. Consultation with regulatory agencies early in the design phase of the project will familiarize them with the project prior to receipt of permit applications, and will ensure timely access of required permits.

3.1 State Stormwater and Sediment Control Permitting

The Kentucky KPDES General Permit for Stormwater Discharges associated with Construction Activities (KYR10) regulates the erosion and sediment control on construction sites greater than one acre. Requirements for this permit include the submission of a notice of intent (NOI) to the Kentucky Department for Environmental Protection (KDOW), developing a Stormwater Pollution Prevention Plan (SWPPP), and filing a notice of termination with KDOW once the site has reached final stabilization. This permit shall be acquired by the contractor a minimum of thirty (30) days prior to the commencement of construction activities.

New development requires watershed studies to be performed to evaluate the impacts on the public drainage system and receiving streams. Detention may not be required if the detailed watershed study shows no significant impacts on the drainage system. Should the new development increase the peak flow and volume of runoff due to additional impervious surface, detention facilities will be required. Stormwater controls shall reduce post-development peak flows to pre-development levels to meet water quantity design criteria. Water quality criteria requires runoff to be mitigated by managing the water quality volume (WQV) runoff from the 90th percentile storm. Green infrastructure may also be used in runoff reduction and shall be designed to retain a runoff volume equal to 0.8 inches of the total impervious area.

3.2 Local Site Plan Review and Permitting

Lexington's Division of Engineering (DOE) requires a land disturbance permit for any disturbance greater than 5,000 square feet. Prior to submitting the permit application, Improvement Plans must be prepared and submitted to the DOE for review. Once these plans and all other associated documents have been reviewed and accepted by the DOE, the contractor may submit an application for a Land Disturbance Permit to the DOE. An Erosion and Sediment Control plan, Stormwater Pollution Prevention Plan (SWPPP), and a copy of the KYR10 permit are required for permit approval. A pre-construction meeting will occur prior to the commencement of construction to make all associated Lexington agencies and utility companies aware of the project schedule.

3.3 Floodway Permitting

FEMA flood maps indicate all three sites are located outside floodplain limits. Therefore, floodway permitting will not be required for construction at Jacobsen Reservoir, RRS, and KRS-1.

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3.4 Public Water System Construction Permitting

Under Title 401, Chapter 8 of the Kentucky Administrative Regulations, KDOW will first review the Preliminary Engineering Report. Upon approval and completion of design, the Form DW-2 application, final plans, specifications, and other supporting documents will be submitted for review. KDOW will issue a Construction Permit for the construction of the new facilities at Jacobson Reservoir, RRS, and KRS-1.

3.5 State Code Official Review and Permitting

Sections 104.15 and 104.16 of the 2013 Kentucky Building Code identifies buildings that fall under the review jurisdiction of the local building department versus the Kentucky Department of Housing, Buildings, & Construction, Division of Building Codes Enforcement. If a portion of the project has a High Hazard Group H Occupancy Classification, the review will be done at the state level. The RRS and KRS-1 Chemical Improvements project is anticipated to have several buildings with the H classification. The Division of Building Codes Enforcement currently applies the following code:

- 2013 Kentucky Building Code (2012 International Building Code with Kentucky amendments)

The Division of Building Codes Enforcement and the Division of Plumbing will complete their review and issue a letter stating that the project is released for construction.

3.6 Local Code Official Review and Permitting

Upon completion of the state-level reviews as detailed above, the Lexington-Fayette Urban County Government (LFUCG) Department of Planning, Preservation, and Development, Division of Building Inspection will complete any necessary reviews and issue construction permits as needed. The LFUCG currently applies the following codes:

- 2013 Kentucky Building Code (2012 International Building Code with Kentucky amendments)
- 2012 International Mechanical Code
- 2009 National Fuel Gas Code
- 2012 International Energy Conservation Code
- 2017 Kentucky Plumbing Code
- 2014 National Electrical Code
- Americans with Disability Act Standards for Accessible Design Guidelines for Accessible Public Rights-of-Way
- 2009 International Code Council A117.1 Accessible and Usable Buildings and Facilities

The LFUCG will coordinate with the Kentucky Department of Housing, Buildings, and Construction, Division of Building Codes Enforcement for inspections.

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3.7 Wrecking Permitting

Before demolishing any part of a building, the law requires a wrecking permit from the LFUCG Department of Planning, Preservation, and Development, Division of Building Inspection. Demolition of existing facilities is anticipated at RRS; the necessary information will be provided to the Division for approval.

3.8 Other Permits

It is anticipated that no other engineering or environmental permits from other federal, state or local agencies will be necessary.

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Section 4. Process/Mechanical Requirements

4.0 General

The RRS and KRS-1 Chemical Improvements Project will include new storage and feed facilities for several chemicals at both RRS and KRS-1 treatment plants as well as at the Jacobson Reservoir. Chemical facilities will be provided as shown in Table 4.1 below.

Table 4.1 New Chemical Systems

Chemical	Purpose	Application Points
Jacobson Reservoir		
Powdered Activated Carbon	Taste and Odor Removal	Raw Water
Richmond Road Station WTP		
Sodium Permanganate	Fe and Mn, Taste and Odor, TOC Removal	Rapid Mix
Polyaluminum Chloride	Coagulation	Rapid Mix
Liquid Lime	pH Adjustment	Rapid Mix, Chlorine Contact Basin Effluent
Polymer	Coagulant Aid	Rapid Mix
Sodium Hypochlorite	Disinfection	Raw Water Control Vaults, Filter Inlet Box, Filter Effluent Structure , Chlorine Contact Basin Effluent
Aqua Ammonia	Disinfection	Chlorine Contact Basin Effluent
Fluoride	Fluoridation	Chlorine Contact Basin Effluent
Phosphate	Corrosion Inhibitor	Chlorine Contact Basin Effluent
Kentucky River Station 1 WTP		
Sodium Permanganate	Fe and Mn, Taste and Odor, TOC Removal	Low Service Pump Station Discharge, Rapid Mix
Ferric Chloride	Coagulation	Rapid Mix
Liquid Lime	pH Adjustment	Rapid Mix, N/S Filter Effluent
Sodium Hypochlorite	Disinfection	Rapid Mix, Filter Influent , N/S Filter Effluent
Aqua Ammonia	Disinfection	N/S Filter Effluent

The liquid chemical storage and feed systems will be designed to meet the requirements of American Water Engineering Standard T-2, Liquid Chemical Storage, Feed and Containment. Chemical system design is based on the following criteria:

- Bulk Storage - For liquid chemicals, bulk storage tank sizing is typically based on 30 days of storage. T-2 Standards indicate that sizing is generally provided for 30 days at the maximum dose and average treated water flow, or the average dose and maximum treated water flow, and that tanks should also be sized for 150% of a full bulk shipment of chemical. An exception is made

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for sodium hypochlorite; 15-day storage is recommended as the chemical degrades quickly during warm weather. T-2 Standards also allow for sizing of bulk storage at larger treatment plants to consider delivery quantity and local time required for delivery. Bulk storage tanks will be constructed of fiberglass reinforced plastic (FRP), high-density polyethylene (HDPE), or carbon steel, and will be provided with overfill protection. Electrically-actuated ball valves will be provided on the bulk tank outlet connections, and valves will remain closed except during transfer from bulk to day tanks. Tank appurtenances will be provided as shown in the liquid chemical schematic provided with American Water's T-2 Standard.

- **Transfer Pumps** - Transfer pumps used to convey liquid chemicals from bulk storage tanks to day tanks generally will be designed for a transfer time of approximately two minutes to allow an operator to accomplish transfer using a hold-to-run switch. For day tanks larger than 100 gallons, however, longer fill times are recommended to limit the capacity of the transfer pumps. Automatic pump shutoff will be provided based on day tank level and containment area spill detection; however, automatic start of transfer pumps will not be provided. Magnetic-drive centrifugal pumps will be specified for chemical transfer. A redundant transfer pump will be provided for each chemical system.
- **Day Tanks** - T-2 Standards recommend that day tanks for liquid chemicals be designed to hold 125% of the daily requirement at the maximum dose and average treated water flow, or the average dose and maximum treated water flow. Day tanks will be constructed of FRP, HDPE, or carbon steel, and will be provided with overfill protection, and smaller tanks may be upsized to allow enough space on the top of the tank for necessary fill, vent, and level instrument connections.
- **Metering Pumps** - Chemical metering pumps will be sized for the current design capacity and maximum chemical dose, and equipment will have adequate turndown capability for the minimum capacity and minimum chemical dose. Diaphragm and peristaltic metering pumps will be specified for chemical feed, depending on characteristics of the chemical being pumped and required turndown. Redundant metering pumps and accessories will be provided for each chemical system, and a spare chemical feed line will be provided for each chemical in its respective feed conduit. All chemical feed system controls will provide for flow pacing.

Liquid chemical storage and feed equipment will be located in a new chemical facility at each site. A separate enclosed room will be provided for each chemical. Each chemical room will be provided with secondary containment sized to hold 110% of the contents of the largest bulk storage tank, plus 20 minutes of sprinkler water, if a sprinkler system is required. Secondary containment will be provided for chemical piping, and redundant chemical feed lines will be provided in the containment piping. Secondary containment will also be provided for the chemical delivery areas. The floor of each chemical room will slope down to a sump, provided with a level switch, for pumping out spills or washdown water. Chemical rooms and fill stations will be provided with tempered emergency shower/eyewash stations, and continuous ventilation at a rate of at least 1 cfm/square foot will also be provided. A translucent panel will be installed in the outside wall of each chemical room to allow for removal and replacement of bulk storage and day tanks. Drawings M10, M20, and M30 provide site plan views showing the new chemical facilities at Jacobson Reservoir, RRS, and KRS-1.

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Several of the liquid chemicals to be stored and fed at the treatment plants are classified as corrosive chemicals or oxidizers. Quantities of these classifications of chemicals stored inside the building will exceed the allowable volumes for a non-hazardous building. A building classified as hazardous is required to have a sprinkler system; however, there are exceptions within the building code that may apply. Discussions with the local authority having jurisdiction will be required to agree on an approach.

Details of chemical facilities to be provided at Jacobson Reservoir, RRS, and KRS-1 are provided in the following sections.

4.1 Jacobson Reservoir Powdered Activated Carbon Facility

Equipment for storing and feeding powdered activated carbon (PAC) at Jacobson Reservoir will be sized according to the flow rates and chemical doses shown in [Table 4.2](#) below. Doses for two different PAC products were determined based on bench-scale testing performed by Hazen.

Table 4.2 Design Criteria for Jacobson Reservoir Chemical Storage and Feed Equipment

	Maximum	Average	Minimum
Design Flow, mgd	30	15	6
Powdered Activated Carbon Dose, mg/L			
NuChar	50	30	20
WaterCarb 800	50	40	20

PAC will be delivered to Jacobson Reservoir in dry form in bulk tanker trucks holding 30,000 to 40,000 pounds. The carbon will be blown into one of two slurry mixing tanks, and the slurry will be fed using metering pumps. The following equipment is proposed for PAC storage and feed:

- Two (2) 60,000-gallon rectangular concrete bulk slurry storage tanks, each sized to hold a full truckload of PAC with slurry water to provide for 1 gallon of water per pound of carbon. Each tank will be provided with a vertical mechanical mixer, dust control tower, and misting grid.
- Four (4) 475-gph peristaltic metering pumps, three provided for feed to the 16-inch, 20-inch, and 30-inch reservoir water pump effluent lines, with an installed spare pump, all with controls for flow pacing

A schematic of the PAC system is provided on [Drawing M150](#).

4.2 Richmond Road Station Chemical Improvements

Equipment for storing and feeding chemicals at RRS will be sized according to the flow rates and chemical doses shown in [Table 4.3](#) below.

Table 4.3 Design Criteria for RRS Chemical Storage and Feed Equipment

	Maximum	Average	Minimum
Design Plant Flow, mgd	30	15	6

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	Maximum	Average	Minimum
Sodium Permanganate Dose ¹ , mg/L as NaMnO ₄	1.2	0.62	0.032
Polyaluminum Chloride ² , mg/L as total product	200	62	15
Liquid Lime Dose ³ , mg/L as Ca(OH) ₂			
Rapid Mix	51	9.3	0.46
Chlorine Contact Basin Effluent	51	9.3	0.46
Coagulant-Aid Polymer ⁴ , mg/L as total product	6.0	1.8	0.20
Sodium Hypochlorite Dose ⁵ , mg/L as Cl			
Raw Water Control Vaults	6.6	4.1	1.0
Settled Water	6.6	4.1	1.0
Filter Effluent	6.6	4.1	1.0
Chlorine Contact Basin Effluent	6.6	4.1	1.0
Ammonium Hydroxide Dose, mg/L as NH ₃	1.7	1.1	0.31
Fluoride ⁶ , mg/L as fluoride ion	1.6	0.82	0.076
Phosphate Corrosion Inhibitor, mg/L as total product	12	4.8	1.2

¹2014 – 2017 MORs; maximum is 95th percentile dose

²2014 – 2017 MORs; maximum historical dose of 200 mg/L, minimum is 1st percentile dose

³Average dose based on target pH of 7.8. Maximum and minimum doses based on historical caustic dosing.

⁴2014 – 2017 MORs

⁵Average dose based on September 2016 worst condition after chlorine contact tank installation. Maximum and minimum doses based on cold and warm months for 2015 and 2016.

⁶2014 – 2017 MORs; maximum is 99th percentile dose

At RRS, Chemical Building 1 will be provided to house liquid lime, polyaluminum chloride, polymer, and sodium permanganate storage and feed systems. Chemical Building 2 will be provided to house sodium hypochlorite, aqua ammonia, fluoride, and corrosion inhibitor storage and feed systems.

4.2.1 Sodium Permanganate

Sodium permanganate will be delivered to the plant at a concentration of 20% and with an effective density of 1.92 lb/gallon. The permanganate solution will be stored in a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for sodium permanganate storage and feed:

- One (1) 7,000-gallon HDPE bulk storage tank, sized to hold full deliveries of 4,700 gallons of permanganate
- Two (2) 50-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank

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- One (1) 100-gallon HDPE day tank
- Three (3) 3.4-gph diaphragm metering pumps provided for feed to the two rapid mix/flocculation/sedimentation trains, with an installed spare pump, with controls for flow pacing

A schematic of the permanganate system is provided on [Drawing M250](#).

4.2.2 Polyaluminum Chloride

Polyaluminum chloride (PACl) will be delivered to the plant with a specific gravity of 1.23 and a total product density of 10.26 lb/gal. The PACl solution will be stored in bulk storage tanks, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for PACl storage and feed:

- Two (2) 22,000-gallon FRP bulk storage tanks, sized to hold 30 days of PACl at maximum plant flow and average dose (45,220 gallons)
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 3,000-gallon HDPE day tank
- Three (3) 110-gph diaphragm metering pumps provided for feed to the two rapid mix/flocculation/sedimentation trains, with an installed spare pump, with controls for flow pacing

A schematic of the polyaluminum chloride system is provided on [Drawing M251](#).

4.2.3 Liquid Lime

Liquid lime will be delivered to the plant at a concentration of 30% and with an effective density of 3.03 lb/gallon. The liquid lime will be stored in bulk storage tanks, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for liquid lime storage and feed:

- Two (2) 12,000-gallon carbon steel bulk storage tanks, each provided with a vertical mixer, sized to hold 30 days of liquid lime at maximum plant flow and average dose (22,920 gallons)
- Two (2) 90-gpm peristaltic pumps used for transfer of the chemical from the bulk tanks to the day tank
- One (1) 2,700-gallon carbon steel day tank, provided with a vertical mixer
- Four (4) 175-gph peristaltic metering pumps provided for feed to the two rapid mix/flocculation/sedimentation trains and the chlorine contact basin effluent, with an installed spare pump, all provided with controls for flow pacing and pH adjustment

The room footprint, height, and containment will be sized for future installation of 17,500-gallon tanks. A schematic of the liquid lime system is provided on [Drawings M252](#) and [M253](#).

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4.2.4 Coagulant-Aid Polymer

Coagulant-aid polymer will be delivered to the plant with a specific gravity of 1.04 and a total product density of 8.67 lb/gallon. The polymer will be stored a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for coagulant-aid polymer storage and feed:

- One (1) 7,000-gallon HDPE bulk storage tank, sized to hold full deliveries of 5,000 gallons of polymer
- Two (2) 55-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 110-gallon HDPE day tank
- Three (3) 4-gph diaphragm metering pumps provided for feed to the two rapid mix/flocculation/sedimentation trains, with an installed spare pump, with controls for flow pacing

A schematic of the coagulant-aid polymer system is provided on [Drawing M254](#).

4.2.5 Sodium Hypochlorite

Sodium hypochlorite will be delivered to the plant at a concentration of 15% (trade) and immediately diluted to a concentration of 5%, which has an effective density of 0.42 pounds of chlorine per gallon of solution. Hypochlorite will be stored in bulk storage tanks, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for sodium hypochlorite storage and feed:

- Four (4) 15,000-gallon FRP bulk storage tanks, sized to hold full deliveries of 4,500 gallons of hypochlorite diluted to 5% and 15 days at average plant flow and maximum dose (46,490 gallons)
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tanks to the day tank
- One (1) 5,300-gallon FRP day tank
- Six (6) 164-gph diaphragm metering pumps provided for feed to the two raw water vaults, the filter inlet box, the filter effluent structure, the chlorine contact basin effluent, and an installed spare pump, all provided with controls for flow pacing and residual control

A schematic of the sodium hypochlorite system is provided on [Drawings M255](#) and [M256](#).

The footprint of the sodium hypochlorite room will be sized for the potential future installation of an on-site generation system. The footprint of the room will allow for the following:

- Two (2) 2,400-pound per day (ppd) generator skids, sized to meet maximum day demands of 2,590 ppd
- Three (3) 15,000-gallon FRP bulk storage tanks, sized to hold 3 days of 0.8% on-site generated sodium hypochlorite at average plant flow and average dose (37,690 gallons)

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- One (1) 60-ton brine storage tank (located outside to the northeast of Chemical Building 2), sized to hold 31 days at average plant flow and maximum dose (60 tons)

4.2.6 Ammonium Hydroxide

Ammonium hydroxide (aqua ammonia) will be delivered to the plant at a concentration of 19% and with an effective density of 1.47 lb NH₃/gallon (1.21 lb N/gal). The ammonia solution will be stored in a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for aqua ammonia storage and feed:

- One (1) 10,000-gallon pressurized carbon steel bulk storage tank, sized to hold full deliveries of 6,500 gallons of aqua ammonia
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 250-gallon pressurized carbon steel day tank
- Two (2) 13-gph diaphragm metering pumps provided for feed to the Chlorine Contact Basin Effluent, one duty and one installed spare, with controls for flow pacing
- Softened carrier water on the metering pump discharge

A schematic of the aqua ammonia system is provided on [Drawing M257](#).

4.2.7 Hydrofluosilicic Acid

Hydrofluosilicic acid (fluoride) will be delivered to the plant at a concentration of 24% and with an effective density of 1.95 lb F ion/gallon. The fluoride will be stored a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for fluoride storage and feed:

- One (1) 7,000-gallon HDPE bulk storage tank, sized to hold full deliveries of 4,500 gallons of polymer
- Two (2) 60-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 120-gallon HDPE day tank
- Two (2) 9-gph diaphragm metering pumps provided for feed to the Chlorine Contact Basin Effluent, one duty and one installed spare, with controls for flow pacing

A schematic of the fluoride system is provided on [Drawing M258](#).

4.2.8 Corrosion Inhibitor

Phosphate corrosion inhibitor (Carus 8500) will be delivered to the plant with a specific gravity of 1.34 and a total product density of 11.2 lb/gallon. The corrosion inhibitor will be stored a bulk storage tank,

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transferred to a day tank, and fed using metering pumps. The following equipment is proposed for corrosion inhibitor storage and feed:

- One (1) 7,000-gallon HDPE bulk storage tank, sized to hold full deliveries of 4,000 gallons of corrosion inhibitor
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 200-gallon HDPE day tank
- Two (2) 12-gph diaphragm metering pumps provided for feed to the Chlorine Contact Basin Effluent, one duty and one installed spare, with controls for flow pacing

A schematic of the corrosion inhibitor system is provided on [Drawing M259](#).

4.3 Kentucky River Station 1 Chemical Improvements

Equipment for storing and feeding chemicals at KRS-1 will be sized according to the flow rates and chemical doses shown in [Table 4.4](#) below.

Table 4.4 Design Criteria for KRS-1 Chemical Storage and Feed Equipment

	Maximum	Average	Minimum
Design Plant Flow, mgd	45	30	15
Sodium Permanganate Dose ¹ , mg/L as NaMnO ₄	1.2	0.62	0.032
Ferric Chloride Dose ² , mg/L as FeCl ₃	56	15	0.17
Liquid Lime Dose ³ , mg/L as Ca(OH) ₂			
Rapid Mix	25	9.3	0.24
Filter Effluent	25	9.3	0.24
Sodium Hypochlorite Dose ⁴ , mg/L as Cl			
Rapid Mix	10	4.9	0.08
Settled Water	10	4.9	0.08
Filter Effluent	10	4.9	0.08
Ammonium Hydroxide Dose ⁵ , mg/L as NH ₃	1.6	1.0	0.22

¹RRS 2014 – 2017 MORs; maximum is 95th percentile dose

²2014 – 2017 MORs; maximum is 99th percentile dose

³Average dose based on target pH of 7.8. Maximum and minimum doses based on historical caustic dosing.

⁴Doses based on cold and warm months for 2015 and 2016.

⁵2014 – 2017 MORs

One new building, Chemical Building 2, will house the storage and feed systems for sodium permanganate, ferric chloride, liquid lime, sodium hypochlorite, and aqua ammonia. The sodium

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permanganate system will also have a second day tank / metering pumps housed within the low service pump station.

4.3.1 *Sodium Permanganate*

Sodium permanganate will be delivered to the plant at a concentration of 20% and with an effective density of 1.93 lb/gallon. The permanganate solution will be stored in a bulk storage tank, transferred to two day tanks, and fed using metering pumps. The following equipment is proposed for sodium permanganate storage and feed:

- One (1) 7,000-gallon HDPE bulk storage tank, sized to hold full deliveries of 4,700 gallons of permanganate
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tanks
- One (1) 200-gallon HDPE day tank for feed to rapid mix
- Two (2) 10-gph diaphragm metering pumps provided for feed to rapid mix, one duty and one installed spare pump, with controls for flow pacing
- One (1) 500-gallon HDPE day tank, located in the raw water pump station, for feed to the raw water pump discharge
- Two (2) 10-gph diaphragm metering pumps provided for feed to the raw water pump discharge, one duty and one installed spare pump, with controls for flow pacing

The day tank and metering pumps for the raw water pump discharge will require a separate room within the pump station due to building code requirements. Consultation with state fire code enforcement will verify if a sprinkling system is also necessary. A schematic of the permanganate system is provided on Drawings M350 and M351.

4.3.2 *Ferric Chloride*

Ferric chloride will be delivered to the plant at a concentration of 35% and with an effective density of 4.09 lb/gallon. The ferric will be stored in a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for ferric chloride storage and feed:

- Two (2) 22,000-gallon FRP bulk storage tanks, sized to hold 30 days of ferric chloride at maximum plant flow and average dose (40,750 gallons)
- Two (2) 90-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 2,500-gallon HDPE day tank
- Three (3) 110-gph diaphragm metering pumps provided for feed to rapid mix, two duty and one installed spare pump, with controls for flow pacing; two pumps will be required for maximum dose and maximum plant flow conditions

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The ferric chloride room footprint will be sized for future installation of an additional 22,000-gallon bulk storage tank. A schematic of the ferric chloride system is provided on [Drawings M352](#).

4.3.3 *Liquid Lime*

Liquid lime will be delivered to the plant at a concentration of 30% and with an effective density of 3.03 lb/gallon. The liquid lime will be stored in bulk storage tanks, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for liquid lime storage and feed:

- Two (2) 17,500-gallon carbon steel bulk storage tanks, each provided with a vertical mixer, sized to hold 15 days of liquid lime at maximum plant flow and average dose (34,380 gallons)
- Two (2) 90-gpm peristaltic pumps used for transfer of the chemical from the bulk tanks to the day tank
- One (1) 2,700-gallon carbon steel day tank, provided with a vertical mixer
- Three (3) 130-gph peristaltic metering pump provided for feed to rapid mix and the north and south 30" filter effluent lines, all provided with controls for flow pacing and pH adjustment (Note: The plant feeds to only one of the filter effluent lines at a time, so the other pump will serve as a backup to rapid mix and the duty filter effluent pump)

The footprint of the liquid lime room will allow for future installation of an additional bulk storage tank. A schematic of the liquid lime system is provided on [Drawings M353](#) and [M354](#).

4.3.4 *Sodium Hypochlorite*

Sodium hypochlorite will be delivered to the plant at a concentration of 15% (trade) and immediately diluted to a concentration of 5%, which has an effective density of 0.42 pounds of chlorine per gallon of solution. Hypochlorite will be stored in bulk storage tanks, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for sodium hypochlorite storage and feed:

- Five (5) 16,000-gallon FRP bulk storage tanks, sized to hold full deliveries of 4,500 gallons of hypochlorite diluted to 5% and 15 days at maximum plant flow and average dose (78,040 gallons)
- Two (2) 100-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tanks to the day tank
- One (1) 4,500-gallon FRP day tank
- Three (3) 190-gph pumps provided for feed to rapid mix and the north and south 30" filter effluent lines (Note: The plant feeds to only one of the filter effluent lines at a time, so the other pump will serve as a backup to rapid mix and the duty filter effluent pump, and will also be required to feed maximum dose and maximum plant flow at the filter effluent)
- Eleven (11) 38-gph pumps provided for feed to the filter influent, ten duty and one installed spare, all provided with controls for flow pacing and residual control

A schematic of the sodium hypochlorite system is provided on [Drawings M355](#), [M356](#), and [M357](#).

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The footprint of the sodium hypochlorite room will be sized for the potential future installation of an on-site generation system. The footprint of the room will allow for the following:

- Four (4) 2,400-pound per day (ppd) generator skids, sized to meet maximum day demands of 5,260 ppd
- Three (3) 22,000-gallon FRP bulk storage tanks, sized to hold 3 days of 0.8% on-site generated sodium hypochlorite at average plant flow and average dose (65,070 gallons)
- Two (2) 50-ton brine storage tanks (located outside to the southeast of Chemical Building 2), sized to hold 31 days at average plant flow and maximum dose (100 tons)

4.3.5 Ammonium Hydroxide

Ammonium hydroxide (aqua ammonia) will be delivered to the plant at a concentration of 19% and with an effective density of 1.47 lb NH₃/gallon (1.21 lb N/gal). The ammonia solution will be stored in a bulk storage tank, transferred to a day tank, and fed using metering pumps. The following equipment is proposed for aqua ammonia storage and feed:

- One (1) 10,000-gallon pressurized carbon steel bulk storage tank, sized to hold full deliveries of 6,500 gallons of aqua ammonia
- Two (2) 70-gpm magnetic drive centrifugal pumps used for transfer of the chemical from the bulk tank to the day tank
- One (1) 350-gallon pressurized carbon steel day tank
- Two (2) 17-gph diaphragm metering pumps provided for feed to the north and south 30" filter effluent lines, with controls for flow pacing (Note: The plant feeds to only one of the filter effluent lines at a time, so the other pump will serve as a backup to the duty filter effluent pump.).
- Softened carrier water on the metering pump discharge

A schematic of the aqua ammonia system is provided on [Drawing M358](#).

4.4 Piping

A schedule of the proposed process piping for the Kentucky American Water Chemical Improvements is presented in [Table 4.5](#).

Table 4.5 Piping Materials

Pipe Service	Location	Material	Joint Type	Thickness Class/ Schedule
Potable Water, Non-Potable Water	< 4" Buried	PVC	Solvent Welded	Schedule 80
	< 4" Exposed	Copper (Interior PW)	Soldered	150 psi

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Pipe Service	Location	Material	Joint Type	Thickness Class/ Schedule
		PVC (Interior NPW)	Solvent Welded / Flanged	Schedule 80
		CPVC (Exterior PW/NPW)		
Aqua Ammonia	Buried	HDPE in PVC Casing Pipe	Butt Welded	150 psi
	Exposed	Carbon Steel	Welded / Flanged / Threaded	Schedule 80
Ferric Chloride, Powdered Activated Carbon, Sodium Hypochlorite	Buried	HDPE in PVC Casing Pipe	Butt Welded	150 psi
	Exposed	PVC/CPVC	Solvent Welded / Flanged	Schedule 80
Liquid Lime	Buried	HDPE in PVC Casing Pipe	Butt Welded	150 psi
	Exposed	Carbon Steel	Welded / Flanged	Schedule 40
Sodium Permanganate	Buried	HDPE in PVC Casing Pipe	Butt Welded	150 psi
	Exposed	HDPE, PVC Valves	Solvent Welded	Schedule 80
Casing Pipe for Chemical and Sample Service	Buried	PVC	Solvent Welded	Schedule 40
Drains	< 4"	PVC	Solvent Welded	Schedule 80
	>= 4" Buried	Ductile Iron	Push-On	Pressure Class 350

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Section 5. Site/Civil Requirements

5.1 Site Access

5.1.1 Jacobson Reservoir Powdered Activated Carbon Facility

The Jacobson Reservoir Pump Station is located at the base of the Jacobson Reservoir and accessed via a driveway located off Buckhorn Drive in the southeast quadrant of Lexington, Kentucky. An addition to the existing access road is proposed for the new development, however, it is not anticipated any other significant changes to the existing access road will be required.

The Jacobson Reservoir is enclosed with fencing around the entire perimeter, with public access limited to several marina locations. The proposed Powdered Activated Carbon (PAC) Facility will be constructed to the southwest of the existing Pump Station and entirely within the currently secured area. No additional perimeter fencing or construction entrance is anticipated for this project, as the existing site access road will be used. If necessary due to damage from construction vehicles, the existing access road may be repaved following construction activities.

Construction traffic will use the existing site entrance off Buckhorn Drive, turning left approximately 400 feet into the site and then passing through the gate along the road leading to the Pump Station.

5.1.2 Richmond Road Station Chemical Improvements

The RRS site is currently accessed off Richmond Road (US 25/421) via Water Company Drive and then through the administration building's main entrance. Development of the proposed Chemical Treatment Buildings will not require any additional, permanent site accesses.

The existing perimeter of the RRS site, including the adjacent reservoir, is surrounded by security fencing. The proposed Chemical Building 1 will be located in place of the former Filters and Clearwell No. 2, and Chemical Building 2 will be adjacent to the Chlorine Contact Basin, within the secure area. All construction will be inside of the perimeter of the property and no disturbance of the surrounded security fencing is expected.

No additional entrances will be required for this project, although vehicular and pedestrian access to each of the new facilities will be provided through minor pavement addition and/or improvements to the existing roadways.

Construction traffic will use the main plant entrance, Water Company Drive, to access the proposed facility construction sites.

5.1.3 Kentucky River Station 1 Chemical Improvements

The Kentucky River Station 1 (KRS-1) site is located southeast of downtown Lexington along the northern bank of the Kentucky River and is accessed off Kentucky American Road. The road enters the plant site from the west and provides access to the Administration Building and treatment facilities to the

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north and the existing Chemical Building to the south. Development of the proposed Chemical Building 2 is planned on the west side of the plant site, with the new Chemical Building straddling the existing western property line. It will be necessary for Kentucky American to purchase a portion of the western adjacent property, as well as an expansion of the existing perimeter fencing and a relocated gate for site entrance, to accommodate the proposed facilities.

No additional entrances will be required for this project, although vehicular and pedestrian access to each of the new facilities will be provided through minor pavement addition and/or improvements to the existing roadways.

Construction traffic will use the main plant entrance, Kentucky American Road, to access the proposed facility construction site.

5.2 Site Work, Grading, and Drainage

5.2.1 Jacobson Reservoir Powdered Activated Carbon Facility

The proposed PAC Facility will be constructed approximately 200 feet to the southwest of the existing Pump Station, below the toe of road the Jacobson Reservoir Dam and immediately to the west of the existing access road.

The proposed grading plan is to provide a level base for the new facilities slightly higher than existing grade in the vicinity in order to provide sufficient positive drainage away from the proposed structures. Finished grades outside the proposed facilities will be closely coordinated to allow access to the new structures for both personnel and vehicles as required by sidewalk or pavement, respectively.

The existing access road will be altered to add a new section of access road around the west and north side of the proposed facilities, to provide access around all sides of the new Pump Station. The entire existing roadway from Buckhorn Drive to the Pump Station will be inspected for damage upon completion of construction activities and be resurfaced or replaced to full-depth depending on the extent of damage.

5.2.2 Richmond Road Station Chemical Improvements

As noted previously, the proposed Chemical Building 1 will be located in place of the former Filters and Clearwell No. 2 structure, which will be demolished. The proposed Chemical Building 2 will be located to the east and immediately adjacent to the existing Chlorine Contact Basin.

Grading at each building will be slightly higher than existing grade in the vicinity to provide sufficient positive drainage away from the proposed structures and to allow access to the new structures for both personnel and vehicles as required by sidewalk or pavement, respectively.

Concrete spill containment areas will be constructed within the roadway in front of each new building to capture any potential chemical spills during unloading. The containment areas will normally collect runoff and direct it to a stormwater outlet point. A valve in the drain line will be closed by plant personnel as part of the standard operation procedure when chemicals are being unloaded in the containment areas, causing any chemical spill to be contained within the containment storage area.

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If there is sufficient grade between the two structures, a spill containment pad will be constructed in front of the Chemical Building 2 which will convey the spill by pipe to the second spill containment and holding system in front of the Chemical Building 1. The holding system will be sized to contain the spill volume from either location.

If grade between the two buildings is not sufficient, or underground interferences make it impossible to run a pipe between the two collection systems, the system in front of each building will be designed to contain the required spill volume independently, as well as collect and discharge stormwater as needed.

The entire existing roadway in the area of construction and along the construction access route will be inspected for damage upon completion of construction activities and be resurfaced or replaced to full-depth depending on the extent of damage.

5.2.3 *Kentucky River Station 1 Chemical Improvements*

The proposed Chemical Building 2 will be constructed approximately 200 feet to the southwest of the existing Administration Building and 180 feet west of the existing Chemical Facility. As noted earlier, the new construction will straddle the existing western property line of the plant site and require the purchase of additional land from the adjoining landowner.

As with the other sites, the proposed grading plan is to provide a level base for the new Chemical Building 2 slightly higher than existing grade in the vicinity in order to provide sufficient positive drainage away from the proposed structures. Finished grades outside the proposed facilities will be closely coordinated to allow access to the new structures for both personnel and vehicles as required by sidewalk or pavement, respectively. New pavement will be added between the existing access road and the new structure to allow vehicular access. This new pavement will also be sloped away from the new structure.

Additional pavement will be added to create a truck turn-around area to the southeast of the existing Administration Building to allow chemical delivery trucks easy ingress-egress to the new facilities. All existing pavement impacted by construction activities will be inspected for damage upon completion of construction activities and be resurfaced or replaced to full-depth depending on the extent of damage.

5.3 **Storm Drainage**

5.3.1 *Jacobson Reservoir Powdered Activated Carbon Facility*

Construction of the proposed PAC Facility at Jacobson Reservoir will increase impervious surface on the site by approximately 8,000 ft², and so will create an increase in stormwater runoff from the site.

As per the requirements of the *LFUCG Stormwater Manual*, a watershed study will be conducted during design to determine if runoff volume reduction and water quality improvement will be necessary due to increase in impervious surface on site. If post-construction stormwater quantity and stormwater quality standards are to be met, and soil conditions allow, a BMP based on green infrastructure practices appropriate to the site and requirements will be designed.

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Surface drainage for this project will be accommodated with minimal infrastructure, likely involving grassed swales to direct flow away from the existing and proposed facilities. Roof drains shall discharge to the swales via downspouts with outlet protection to minimize erosion. Flow from the proposed impervious areas will be routed to a stormwater BMP for treatment before discharge off-site, if necessary.

The Contractor's staging area, parking area, and temporary excavated material stockpile area will be located on site in an area to be designated by the Owner. Erosion control measures shall be employed around all staging and stockpile areas. No trees should be impacted by construction, as they are located to the south of the proposed construction area, but tree protection will be provided by construction fencing if found to be necessary. All excess excavated material will be wasted on-site.

5.3.2 *Richmond Road Station Chemical Improvements*

Construction of the two proposed chemical buildings, each with a footprint of approximately 5,400 ft², and associated roadway improvements will result in an increase in impervious surface and therefore stormwater runoff from the site.

As per the requirements of the *LFUCG Stormwater Manual*, a watershed study will be conducted during design to determine if runoff volume reduction and water quality improvement will be necessary due to increase in impervious surface on site. If post-construction stormwater quantity and stormwater quality standards are to be met, a BMP based on green infrastructure practices appropriate to the site and requirements will be designed. KAW has noted in the past it may be possible to use green infrastructure practices to reduce the site's stormwater user fee billings.

In general, grading will be designed to direct flow away from the existing and proposed facilities. Roadway drainage will be directed to grass swales along the road, as possible, and roof drains shall be discharged via downspout boots to the storm sewer, or discharged to grade in a non-erosive manner. Surface drainage will be accommodated with minimal storm sewer piping consistent with the existing adjacent facilities, and sheet flow wherever possible. The existing stormwater infrastructure will be re-used as conditions allow. Flow from the proposed impervious areas will be routed to a stormwater BMP for treatment before discharge off-site.

The Contractor's staging area, parking area, and temporary excavated material stockpile area will be located on site in an area to be designated by KAW. Erosion control measures shall be employed around all staging and stockpile areas, and tree protection will be provided by construction fencing as necessary. All excess excavated material will be wasted on-site.

5.3.3 *Kentucky River Station 1 Chemical Improvements*

Construction of the proposed Chemical Building 2 and associated pavement improvements for the KRS-1 site will increase impervious surface by approximately 22,000 ft², and so will create an increase in stormwater runoff from the site.

As per the requirements of the *LFUCG Stormwater Manual*, a watershed study will be conducted during design to determine if runoff volume reduction and water quality improvement will be necessary due to increase in impervious surface on site. If post-construction stormwater quantity and stormwater quality

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standards are to be met, and soil conditions allow, a BMP based on green infrastructure practices appropriate to the site and requirements will be designed.

Surface drainage for this project will be accommodated using existing storm drainage infrastructure as possible and otherwise directed flows to grassed swales to convey flow away from the existing and proposed facilities. Roof drains shall discharge to the swales via downspouts with outlet protection to minimize erosion. Flow from the proposed impervious areas will be routed to a stormwater BMP for treatment before discharge off-site, if necessary.

The Contractor's staging area, parking area, and temporary excavated material stockpile area will be located on site in an area to be designated by the Owner. Erosion control measures shall be employed around all staging and stockpile areas. An area of trees outside of the existing plant perimeter of approximately 30,000 ft² will be impacted by construction. Tree protection fencing will be provided around the perimeter of the cleared area to protect trees outside of the construction areas from damage. All excess excavated material will be wasted on-site.

5.4 Landscaping and Signage

All sites are set in moderately wooded areas, and efforts will be made to specify and/or preserve existing trees wherever possible. It is anticipated only construction at the KRS-1 site will require the removal of existing trees. The landscape plan for each site will include plantings around the perimeter of the structures consistent with local ordinances and adjacent to existing planted areas.

If grade separation is required at the Richmond Road Station to achieve the desired grade of the Chemical Building 2 relative to the existing Chlorine Contact Building, a stone retaining wall consistent with other walls on site will be constructed between the structures. Similarly, the new pavement to be added at the KRS-1 site to allow for chemical truck access may require a retaining structure to adequately address grade changes.

Signage on all sites will likely be minimal, and would include directional signs for deliveries and any warning or information signage as may be necessary for plant operations. All signage will be consistent with existing plant signage, especially building identifiers.

5.5 Utilities and Exterior Lighting

5.5.1 Jacobson Reservoir Powdered Activated Carbon Facility

Floor drains will be necessary for the proposed PAC pump room at Jacobson Reservoir, as well as a requirement for a potable water connection for operations and maintenance.

Construction of the proposed PAC Facility is immediately adjacent to numerous existing utilities, primarily underground water piping, which cross beneath the proposed construction site. Conflicts with these existing lines will need to be considered, with relocation of some lines as an option. If line relocation is required, maintaining operations during construction will be an important consideration.

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Exterior lighting will be installed at locations determined for safe access and as required for proper site security. All site lighting shall be in conformance with the local requirements and consistent with existing plant lighting as possible.

5.5.2 *Richmond Road Station Chemical Improvements*

Sanitary connections for floor drains, at a minimum, will be necessary for each of the chemical buildings at the RRS site, as well as connections for potable water as required for operations and maintenance.

The proposed Chemical Building 1 and Chemical Building 2 are located within the RRS site, and are adjacent to several existing buildings. There are also numerous existing utilities, primarily underground water piping and electrical conduit, which cross beneath the proposed construction sites. Conflicts with these existing lines will need to be considered during design, with relocation of some lines as an option.

If existing piping needs to be relocated, maintaining plant operations during construction will be an important consideration during design and construction. KAW staff will confirm the location of existing water mains in the project area, but existing mapping indicates that lines up to 24 inches in diameter may be impacted. If possible, proposed facilities will be relocated to eliminate major utility conflicts. There are also existing underground electric lines in the proposed construction area, so relocation and/or preservation of power supply during construction will have to also be considered.

Exterior lighting will be installed by Kentucky Utilities at locations determined for safe access and as required for proper site security. All site lighting shall be in conformance with the local requirements and consistent with existing plant fixtures wherever possible.

5.5.3 *Kentucky River Station 1 Chemical Improvements*

Construction of the proposed Chemical Building 2 various utilities, including chemical liens, water, sewer, power, and communications to be coordinated with existing utilities on site. Conflicts between these new utilities and existing lines will need to be considered, with relocation of some lines as an option. If line relocation is required, maintaining operations during construction will be an important consideration.

Exterior lighting will be installed at locations determined for safe access and as required for proper site security, likely including new lighting for the relocated site access gate required for this project. All site lighting shall be in conformance with the local requirements and consistent with existing plant lighting as possible.

5.6 **Site Security**

Existing security fencing around all sites consists of a perimeter of chain-link fencing to provide deterrence from intruders. It is not anticipated there will be any revisions to the existing perimeter fence as part of each project. The RRS site includes an existing video surveillance system. KAW and the Project Team will work with KAW's internal security personnel as well as their security consultant, ADT, on details for additional active security measures.

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The construction at KRS-1 will require the extension of the existing site perimeter fencing to encompass the area of the new Chemical Building 2 and any other necessary appurtenances. Temporary perimeter security fencing will have to be provided throughout construction activities, and a new entrance gate for the site located. It is expected the new entrance gate will be automatically operated, and so will require power and control wiring to be provided.

Passive security measures at each site will include ensuring unrestricted sight lines to all portions of the structures and provisions for security lighting at important locations on each site and at the site entrances.

5.7 Erosion Control

The Kentucky KPDES General Permit for Stormwater Discharges associated with Construction Activities (KYR10) regulates the erosion and sediment control on construction sites greater than one acre. Requirements for this permit include the submission of a notice of intent (NOI) to the Kentucky Department for Environmental Protection Division of Water (KDOW), developing a Stormwater Pollution Prevention Plan (SWPPP), and filing a notice of termination with KDOW once the site has reached final stabilization. This permit shall be acquired by the contractor a minimum of thirty (30) days prior to the commencement of construction activities.

Erosion control measures will be employed on each site throughout construction activities to prevent sediment transport to the reservoir or nearby of waterways. In general, erosion control will be achieved through the use of erosion control measures on the site and the preparation and implementation of the SWPPP. Associated erosion control plans prepared for each site shall clearly indicate the location and maintenance of all temporary and permanent erosion control measures. The erosion control plan sheets shall be combined with the grading plan to show temporary and permanent erosion control measures.

All erosion and sediment control measures shall be inspected, maintained, and remain in place on each site until construction activities have been completed and the vegetation or other permanent stabilization measures sufficient to control erosion and sediment transport have been completely established and local regulatory approval given for their removal.

Section 6. Structural and Geotechnical Requirements

6.1 Overview

Structural design of the RRS and KRS-1 Chemical Improvements project in Fayette County, Kentucky, shall be performed in accordance with the requirements of the 2013 Kentucky Building Code, 4th Edition (2012 IBC with Kentucky Amendments as adopted in April, 2017). The structural components of the design that qualify as process concrete structures used for treatment of water will also be designed in accordance with the requirements of ACI 350 - Code Requirements for Environmental Engineering Concrete Structures. This design approach will ensure these structures are designed as watertight and impermeable with considerations during design and construction to limit the potential for cracking. Loading conditions shall be based on the worst case operating scenario with design water surface elevations being based on the maximum water level possible, not just the hydraulic profile.

A comprehensive geotechnical investigation will be required prior to design of the proposed facilities. Geotechnical borings will be required in the proposed footprint of all new structures and in areas where pavement will be installed as well as locations for other features such as piping locations, etc. The geotechnical investigation will determine the necessary means of foundation support for the structures as well as provide necessary design parameters and information such as lateral earth pressures, subgrade moduli, CBR values for pavement design, elevation of static groundwater, elevations of solid bedrock and weathered rock, suitability of existing materials for use as subgrade support and backfill, and compaction requirements, among others. Previous construction at each of the sites has been exclusively supported on shallow foundations such as isolated and continuous footings for buildings and mat foundations for tanks and other structures. Therefore, this shallow foundation approach will be assumed for the proposed construction until the geotechnical investigation is completed and the recommendations are received.

6.2 Codes, Standards, References

6.2.1 Governing Code

The strength, serviceability, and quality standards shall not be less than stipulations required by the governing code. The governing code used for the proposed design is the 2013 Kentucky Building Code, 4th Edition (2012 IBC with Kentucky Amendments as adopted in April, 2017).

6.2.2 Supplemental Design Codes

Selected provisions from the following codes may also be used for the project.

- Standard Specifications for Highway Bridges, American Association of the State Highway and Transportation Officials, Latest Edition
- American Society of Civil Engineers — ASCE 7 Minimum Design Loads for Buildings and Other Structures

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- American Society of Civil Engineers — ASCE 24 Flood Resistant Design and Construction

6.2.3 Codes and Standards for Specific Materials

Design of specific materials will be performed in accordance with the standards, codes, and specifications adopted by the governing code as listed below.

6.2.3.1 All Materials

- The American Society for Testing and Materials (ASTM) standards, as referenced by the governing code or the other codes, standards, or specifications listed herein.

6.2.3.2 Concrete

- Building Code Requirements for Structural Concrete, Publication No. 318, Latest Edition, American Concrete Institute.
- Specifications for Structural Concrete, Publication No. 301, Latest Edition, American Concrete Institute.
- Code Requirements for Environmental Engineering Structures, Publication No. 350 and Commentary, Publication No. 350R, Latest Editions, American Concrete Institute.
- ACI 350.3, Seismic Design of Liquid-Containing Concrete Structures, American Concrete Institute

6.2.3.3 Masonry

- Building Code Requirements for Masonry Structures, Publication No. ACI 530, Latest Edition, American Concrete Institute.
- Specifications for Masonry Structures, Publication No. ACI 530.1, Latest Edition, American Concrete Institute.

6.2.3.4 Steel

- AISC 360, Specification for Structural Steel Buildings, American Institute of Steel Construction.
- AISC 341, Seismic Provisions for Structural Steel Buildings, including Supplement No. 1, American Institute of Steel Construction.
- AISC 303, Code of Standard Practice for Structural Steel Buildings and Bridges, American Institute of Steel Construction.
- RCSC 2014, Specification for Structural Joints Using High-Strength Bolts, Research Council on Structural Connections.

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- AWS D1.1, Structural Welding Code – Steel, American Welding Society.
- AWS D1.3, Structural Welding Code – Sheet Steel, American Welding Society.
- S100 North American Specification for the Design of Cold-Formed Steel Structural Members, American Iron and Steel Institute.

6.2.3.5 Stainless Steel

- ASCE 8, Standard Specification for the Design of Cold-formed Stainless Steel Structural Members, American Society of Civil Engineers.
- AISC Design Guide 27, Structural Stainless Steel, American Institute of Steel Construction.

6.2.3.6 Aluminum

- Aluminum Design Manual (ADM) Specifications & Guidelines for Aluminum Structures, Aluminum Association.
- AWS D1.2, Structural Welding Code – Aluminum, American Welding Society.

6.2.3.7 Fiberglass Reinforced Plastic (FRP)

There are no nationally recognized codes, standards, or specifications for the design of FRP. Proprietary design manuals that have been referenced are listed in the section below, Section 6.2.4, References.

6.2.4 References

Engineering manuals, handbooks, textbooks, articles, and technical publications that may be used in design on this project are as follows:

- Reinforced Concrete Design Handbook, Working Stress Method, Publication SP-3, American Concrete Institute.
- Design Handbook in accordance with the Strength Design Method, Publications SP-17 and SP-17A, American Concrete Institute.
- Detailing Manual, Publication SP-66, American Concrete Institute.
- Moments and Reactions for Rectangular Plates, Engineering Monograph No. 27, U.S. Department of the Interior, Bureau of Reclamation, W.T. Moody.
- Circular Concrete Tanks Without Prestressing, Publication ST-57, Portland Cement Association
- Rectangular Concrete Tanks, Fifth Edition, Portland Cement Association
- MSP-1-86 Manual of Standard Practice, Concrete Reinforcing Steel Institute.
- PCI Design Handbook, Precast/Prestressed Concrete Institute.

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- Masonry Designer's Guide, American Concrete Institute/Masonry Society.
- Reinforced Masonry Engineering Handbook, James E. Amrhein, Masonry Institute of America.
- Steel Construction Manual, American Institute of Steel Construction.
- Structural Steel Detailing Manual, American Institute of Steel Construction.
- Design Manual for Composite Decks, Form Decks, Roof Decks and Cellular Floor Deck with Electrical Distribution, Publication No. 28, Steel Deck Institute.
- Diaphragm Design Manual, Larry Luttrell, Publication NO. DDM02, Steel Deck Institute.
- Standard Specifications, Load Tables, and Weight Tables for Steel Joists and Joist Girders, Steel Joist Institute.
- Design Manual for Structural Stainless Steel, Nickel Development Institute.
- Guidelines for the Use of Stainless Steel in Municipal Wastewater Treatment Plants, Arthur H. Tuthill, Nickel Development Institute.
- Extren Fiberglass Structural Shapes – Design Manual, Strongwell Corporation.
- Dynaform FRP Structural Shapes Design Guide, Fibergrate Composite Structures.

6.3 Design Loads

6.3.1 Dead Loads

Dead loads are those resulting from the weight of all permanent non-removable stationary construction, such as walls, floors, roofs, permanent partitions, framing, ceilings, cladding, and equipment bases. Loads from process liquids within the structure and from soil and groundwater outside the structure will not be considered as dead loads. Unless deemed otherwise by the Governing Building Code, Dead Loads will be as detailed in [Table 6.1](#).

Table 6.1 Dead Loads

Area	Dead Load
Concrete	150 pcf
Steel and Stainless Steel	490 pcf
Aluminum	169 pcf
Fiberglass Reinforced Plastic (FRP)	120 pcf
Concrete Masonry, CMU, 8" Lightweight	77 psf (grouted solid) 50 psf (grouted at 32" oc) 38 psf (hollow)
Concrete Masonry, CMU, 12" Lightweight	118 psf (grouted solid) 73 psf (grouted @32" oc) 55 psf (hollow)

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Area	Dead Load
Wood	30 to 40 pcf
Select Fill	130 pcf
Aggregate Base	135 pcf
Equipment Loads	See Section 6.3.3
Piping Loads	See Section 6.3.4

6.3.2 Live Loads

Live loads technically include all nonpermanent loadings that can occur, in addition to the dead loads. Live loads are those resulting from occupancy, furnishings, and equipment. Except in administrative areas, live load reductions stated in the Governing Code will not be used due to the relatively high probability of simultaneous live loads in all areas. Unless deemed otherwise by the Governing Building Code, Live Loads will be as detailed in Table 6.2.

Table 6.2 Live Loads

Area	Live Load
Working Roofs	100 psf
Non-working Roof Loads	As per Governing Code, including wind
Office Floors	80 psf
Corridors and Stairways (Process Areas)	150 psf
Electrical Control Rooms	250 psf
Light Storage	150 psf
Heavy Storage	300 psf
Grated Access Platforms and Walkways	150 psf
Catwalks and Stairs at Grated Access Platforms	100 psf
Forklift Loads	Wheel loads based on manufacturer's data for the maximum forklift capacity designated for each location
Equipment Loads	See Section 6.3.3
Pipe Loads	See Section 6.3.4
Truck Accessible Areas	HS-20 loading per AASHTO
Elevators	As per ANSI 17.1
Lifting Points	Vertical Load = 2 * (Heaviest Piece of Equipment Lifted) Horizontal Load = 0.20 * (Vertical Load)
Monorail and Bridge Crane Loads	Vertical Load = Hoist System DL + (1.25*Hoist Rated Capacity)

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Area	Live Load
	<p>Horizontal Lateral Load = $0.20 * (\text{Hoist Trolley DL} + \text{Hoist Rated Capacity})$</p> <p>Horizontal Longitudinal load = $0.10 * (\text{Hoist Trolley DL} + \text{Hoist Rated Capacity})$</p>

6.3.3 Equipment Loads

Process area operating floors are designed for the load case resulting in the maximum stresses from the following live load conditions:

- 300 psf on the entire floor area, with no additional load from equipment included.
- 150 psf on the areas not directly under equipment, plus actual equipment loads.

Equipment loads obtained from manufacturers will be used when available, and other equipment loads will be assumed for the preliminary design. These loads will be confirmed prior to completion of design. In addition to the equipment's operating weight (including any fluids contained), other loads due to moving parts, malfunction, and maintenance will be considered. Examples of these other loads include but are not limited to the following:

- Loads from rotating equipment will include moment, torque, and lateral thrust.
- Loads from vertical turbine pumps will include dynamic suction loads and weight of water contained in the riser column.
- Loads from all equipment will include those loads induced for required maintenance, such as the removal of large components that may be temporarily placed on the adjacent floor.
- Loads from hoisting equipment such as monorails, bridge cranes, and elevators will be as shown in Section 6.3.2.

The load option, which creates the highest stress conditions, shall control the design. The weight of equipment components, which could be placed on or transported across the floor, shall be located to create maximum stress conditions.

6.3.4 Piping Loads

For purposes of preliminary design, the live loads listed above will be considered to include the loads from process piping that are supported by the floor below the piping. On floors and roofs that will support process piping suspended below, an additional live load allowance will be included for the preliminary design. This allowance ranges from 25 psf to 100 psf, depending on the size and quantity of piping, anticipated to be suspended below the floor or roof.

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Upon completion of piping layout, these allowances will be reviewed for accuracy with the actual pipe configurations for pipes less than 18 inches in diameter, and the actual concentrated loads from pipes 18 inches and larger will be considered.

6.3.5 HVAC, Ducts, Plumbing, and Electrical Raceway Loads

Loads from HVAC ducts, plumbing, and electrical raceways that are suspended from floors and roofs above are typically relatively light and included within the live loads listed above. However, if they do get significant at selected locations, they will be considered prior to completion of design.

6.3.6 Process Liquid Loads

Process liquid loads are based on a density of 63 pcf for water. For liquids in chemical storage tanks the actual density of the stored chemical will be used.

Static loads from process liquids and from chemicals are determined for the worst case of the following two conditions:

- Liquid surface at normal maximum operating level, or, where applicable, at the design overflow level where overflow is controlled (such as at overflow pipes or weirs). For this condition, normal allowable stresses are used when design is done by the working stress method, or the load factor for dead loads (including the environmental durability factor of ACI 350 for concrete structures) is used if design is done by the ultimate strength method.
- Liquid surface at the maximum level possible before liquid spills out of the structure (uncontrolled overflow conditions). For this condition, a 33 percent increase in allowable stresses is used, or the load factor for dead loads (excluding the environmental durability factor of ACI 350 for concrete structures) is used if design is done by the ultimate strength method.

Seismic loads from process liquids are determined as stated in Section 3.10, using a liquid surface at normal operating level. Seismic loads for liquid surface at maximum levels possible (uncontrolled overflow) are not considered.

6.3.7 External Soil and Groundwater Loads

External soil and groundwater loads shall be based on data and recommendations to be furnished by the geotechnical engineer. For preliminary design prior to receiving geotechnical information, density of soils will be assumed to be 130 pcf and density of aggregate fills will be assumed to be 135 pcf.

Static Loads from external soil and groundwater include the following:

- Soil Pressure "At-Rest" - The Soil Pressure "At-Rest" on the external walls is the static distribution of the soil based on the soil parameters and ground water levels.
- Surcharge Pressure Live Load - The Surcharge Pressure is based upon 300 psf live load on top of final grade.

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- Surcharge Pressure of Soil/Foundations - The surcharge pressure of soil/foundations is based upon soil cover over tanks and spread footings of adjacent structures, where applicable.
- Hydrostatic Pressure - The Hydrostatic Pressure on external walls is the static pressure distribution that the ground water level produces.

Seismic loads from external soil and groundwater are determined as stated in Section 6.3.10.

6.3.8 Wind Loads

Wind loads on any above grade structures will be in accordance with the Governing Code and ASCE 7.

6.3.9 Snow Loads

Snow loads will be in accordance with the Governing Code and ASCE 7.

6.3.10 Seismic Loads

Seismic loads resulting from seismic acceleration of the structure dead and live loads, including permanent fixed equipment and piping, will be determined in accordance with the Governing Code and ASCE 7.

The structure shall also be analyzed and designed to resist seismic loads from internal liquid and exterior soil. The procedures used for the analysis of these conditions are summarized below.

6.3.10.1 Internal Liquid Loads

Walls subject to internal liquid loads shall be analyzed and designed to resist seismic loads in accordance with ACI 350.3, "Seismic Design of Liquid-Containing Concrete Structures", in addition to the static loads indicated in Section 6.3.6. The seismic design loads are:

- Wall Inertia - The Wall Inertia - Seismic pressure is the lateral inertia force due to the weight of the tank wall per unit height of the tank wall, acting at any given height, y , above the base of the wall.
- Impulsive Forces - The Impulsive Force - Seismic load is the force of the effective mass of liquid that moves rigidly with the tank.
- Convective Forces - The Convective Force - Seismic load is the force of the effective mass of the sloshing liquid that is in motion during an earthquake.

6.3.10.2 External Soil Loads

Walls subject to external soil loads shall be analyzed and designed to resist seismic loads in accordance with ACI 350.3, "Seismic Design of Liquid-Containing Structures" and data to be furnished by the

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Geotechnical Engineer, in addition to the static loads indicated in Section 6.3.7. The seismic design loads include:

- Seismic Pressure of soil (including the effects of the soil, surcharge and ground water level) - Seismic loads resulting from seismic acceleration of soil and groundwater will be in accordance with recommendations established in the geotechnical report. If groundwater will be drained with a permanent free draining or pumped underdrain system, then groundwater loads will not be applicable.
- Wall Inertia - The Wall Inertia - Seismic force is the lateral inertia force due to the weight of the tank wall per unit height of the tank wall, acting at any given height, y , above the base of the wall.

6.4 General Basis for Design

6.4.1 Loading Combinations

The load combinations in [Table 6.3](#) shall be used in the design of structures. Additional load combinations, which may produce a maximum stress condition, are also to be considered, as appropriate. Note that combinations, which clearly do not govern, will not need to be fully analyzed.

Table 6.3 Load Combinations

Dead Load + Construction (if unusual construction loads occur)
Dead Load + Live Load + Permanent Equipment Load
Dead Load + Normal Operating Equipment Load + Seismic
Dead Load + Normal Operating Equipment Load + Flood
Dead Load + Normal Operating Equipment Load + Wind

In addition to the load combinations above, exterior tank walls shall be designed with tanks full and without any beneficial soil pressure on the exterior face of the tank. Interior tank walls shall be designed for all possible combinations of full and empty tanks. Walls that separate cells within a tank but do not hydraulically isolate the cells from each other shall not be designed for liquid on one side only. To account for flow lag and minor dynamic effects, however, these walls shall be designed for a 12-inch maximum water level differential on either side of the wall, unless hydraulic analyses determine a greater differential is possible. Internal tank walls, which do not hydraulically isolate cells from each other, shall be designed to resist hydrodynamic loads produced by seismic events. All structure walls retaining water or soil will consist of reinforced concrete using both vertical expansion joints and vertical contraction joints spaced as necessary to assist in control of shrinkage crack formation.

Closed liquid containing structures which have the possibility of becoming pressurized or depressurized due to mechanical or process systems shall be designed for the maximum and minimum pressures as determined by the process engineer.

Lateral loads from soil, rock and groundwater shall be in accordance with the recommendations provided in the geotechnical report. Structures shall be designed for these loads with no benefit from internal liquid loads or live loads.

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6.4.2 Safety Factors

Structures are designed on the basis of determining the service loads and obtaining a suitable ratio of material or soil strength to these loads termed a safety factor. Either the service loads are multiplied by a suitable set of load factors and compared with the ultimate strength or the structural material or yield strength is divided by a suitable safety factor detailed in Table 6.4 below.

Table 6.4 Safety Factors

Type	Safety Factor
Overturning	1.5 1.10 (If seismic loads are included)
Sliding	1.5 1.10 (If seismic loads are included)
Buoyancy for Groundwater, Design Elevation	1.25
Buoyancy for Groundwater, 100-yr Flood Elev.	1.10
Buoyancy for Flood for structures in Flood Hazard Areas	1.50

Forces resisting buoyancy shall be a combination of structure dead load (not including partitions and equipment), weight of soil directly over footings (considering buoyant soil weight), and the tensile resistance of anchors and/or tension piles (based on allowable load values provided by the geotechnical investigation), if applicable. Where there are superstructures above grade, the drawings shall clearly indicate at what level of completion dewatering operations can be terminated.

6.5 Serviceability Considerations

6.5.1 Introduction

In addition to the design requirements in the Governing Code and specific material codes, additional design requirements to ensure serviceability of the structures will be considered. Serviceability of a structure is defined as its ability to behave under load in a manner which does not adversely affect the intended use of the structure or provide discomfort to its occupants. Harsh chemical environments may require a special coating to protect the concrete. Some processes may also require more concrete cover over the reinforcement than typically provided for the structure as a whole to limit possible structural deterioration. Deflections and vibrations are behaviors of a structure that do not necessarily cause damage to the structure itself, but if excessive can cause minor damage or wear to equipment or discomfort and annoyance to occupants. Structures shall be designed to limit deflections and vibrations as stated below such that the intended use and performance of the structures are not adversely affected.

6.5.2 Deflection

Maximum allowable deflections used for design are shown below in Table 6.5. An asterisk (*) indicates the deflection limit applies to live loads only.

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Table 6.5 Maximum Allowable Deflection

Structures	Deflections
Floors, Concrete	Per ACI 318
Floors, Structural Metal Framed *	L/360
Grated Access Platforms *	L/240
Roofs *	L/240
Beams, Lintels, or Slabs Supporting Masonry	L/720

6.5.3 Vibration

The design should provide appropriate protection against structural or mechanical deterioration and occupant discomfort from the effects of vibrations. The guidelines stated below will be used to mitigate the effects of vibration.

- The operating frequencies, unbalanced loads, and specific design recommendations from equipment manufacturers will be considered in the design.
- To minimize resonant vibrations, the structure supporting the equipment shall be designed such that the ratio of its natural frequency to the operating frequency of the equipment is less than 0.50 or more than 1.50.
- Equipment shall be mounted on concrete foundations rather than metal support systems whenever possible and appropriate.
- Concrete pads or foundations shall be provided with a mass equal to ten times the rotating mass of the equipment or three times the gross mass of the equipment, whichever is greater.
- Vibration isolators or dampeners shall be used on equipment foundations where appropriate.

6.5.4 Joints

Expansion and contraction joints will be used in accordance with the requirements of ACI 318 and ACI 350 to minimize stresses from concrete drying shrinkage and thermal loads. Construction joints will be provided as required for constructability. Waterstops will be provided in all joints which are in contact with soil, rock, process liquid or chemicals. All waterstops in construction and contraction joints will be polyvinyl chloride (PVC) flat-ribbed type, 3/8-inch thick by 6-inch wide. PVC waterstops in expansion joints will be flat-ribbed type, 3/8-inch thick by 9-inch wide, with a center bulb. Waterstops in chemical and fuel storage containment areas will be a thermoplastic elastomeric rubber material verified for compatibility with the contained liquid.

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6.6 Seismic Design

The basis for determining acceleration values and corresponding factors for design are given in the section presenting load criteria. Structures shall be designed according to the Governing Code and ASCE 7 requirements using the values given in the appropriate code formulas.

Seismic forces due to vertical acceleration result from all dead loads, including the total mass of water above slabs (especially suspended slabs). The direction of force (up or down) shall be selected to create maximum stresses when combined with horizontal seismic forces. The design of foundations resisting overturning must assume that balancing dead loads are reduced by vertical accelerations.

Transitory live loads are not to be used to produce seismic loading nor combined with seismic with the following exceptions. In storage areas, the loading which is anticipated to be in place the majority of the time shall be used but not less than 25% of the total live load. Equipment, partition walls, and other fixed items shall be considered as dead loads for determining seismic forces. Seismic loads shall be combined with 25% of the snow load.

Because the performance of non-structural components (e.g. equipment, pipe supports, etc) and non-building structures (vessels, tanks, etc) can adversely impact the cost & recovery time associated with earthquakes, non-building structures and non-structural components will be restrained and braced for earthquake forces such that displacements shall not impede component functionality or containment immediately following a seismic event where required by the Governing Code. Seismic resistant elements and supports will be designed to minimize damage to building contents during a seismic event, thereby limiting disruption of service.

6.7 Concrete Design

All portions of the structure in contact with soil or containing process liquids (including slabs over process liquids) will be designed by one of the following two design methods:

- Working Stress Design, per the Alternate Design Method in ACI 318 revised in accordance with ACI 350R recommendations.
- Ultimate Strength Design, per ACI 318 with revised load factors and durability coefficients recommended in ACI 350R.

Portions of the structure not included above may be designed per ACI 318 without including the ACI 350R recommendations.

Materials for use in concrete design will be specified to have the minimum properties detailed in Table 6.6 below.

Table 6.6 Minimum Properties for Concrete Design

Concrete Class A1 – Structural: (Environmental Concrete Structures-ACI 350))	
28 day compressive strength (f'c)	4500 psi
Cementitious Materials	ASTM C150 Type II plus mandatory addition of pozzolan such as Class F fly ash or Slag Cement

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Maximum water/cementitious materials ratio	0.42
Air content	4.5% to 7.0%
Concrete Class A2 – Structural: (All other structures, sidewalks, pavement)	
28-day compressive strength (f'c)	4000 psi
Cementitious Materials	ASTM C150 Type II plus mandatory addition of pozzolan such as Class F fly ash or Slag Cement
Maximum water/cementitious materials ratio	0.45
Air content	4.5% to 7.5%
Concrete Class B: (encasements, catch basins, concrete fill)	
28-day compressive strength (f'c)	3000 psi
Cementitious Materials	ASTM C150 Type II plus mandatory addition of pozzolan such as Class F fly ash or Slag Cement
Maximum water/cementitious materials ratio	0.50
Reinforcing Steel:	
Deformed reinforcing bars	ASTM A615 Grade 60

Minimum required amounts of reinforcing shall be determined per ACI 318 and ACI 350 recommendations depending on the spacing of joints. Amounts of reinforcing used will be as required for structural strength, but not less than these minimum amounts. Maximum spacing of reinforcing bars will be 18 inches on-center.

Finishes on concrete surfaces will be provided in accordance with ACI 301, and as appropriate for their use and exposure. Interior exposed walls, columns, ceilings, and beams in habitable spaces will receive a smooth rubbed finish. Interior walls above the water surface of open tanks and any exterior exposed walls above grade will receive a grout-cleaned finish. Floors of tanks and floors in areas likely to be intermittently wet due to washdown or maintenance of equipment will receive a floated finish. Floors in habitable areas intended to be dry at all times will receive a steel troweled finish.

Waterproof coatings will be provided on all walls and slabs in contact with liquid on one side and dry habitable or exposed spaces on the other. Concrete sealers will be provided on all floors that are exposed, not intended to be immersed, and not scheduled to receive any other type of coating.

6.8 Masonry Design

Masonry will be designed in accordance with ACI 530 and ACI 530.1. Materials for use in masonry design will be specified to have the minimum properties detailed in Table 6.7 below.

Table 6.7 Minimum Properties for Masonry Design

Compressive strength of masonry (f'm)	2000 psi
Concrete masonry units	ASTM C90 Type I

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Compressive strength of masonry units	2000 psi
Mortar	ASTM C270 Type S
Grout	ASTM C476
Compressive strength of grout	2000 psi
Deformed reinforcing bars	ASTM A615, Grade 60
Horizontal joint reinforcing	ASTM A82

Minimum required amounts of reinforcing for seismic loads shall be provided in accordance with ACI 530 and ACI 530.1. Amounts of reinforcing used will be as required for structural strength, but not less than these minimum amounts. All cells containing reinforcing will be grouted. Maximum spacing of horizontal joint reinforcing will be 16 inches on-center vertically.

6.9 Structural Metals Design

Structural steel will be designed in accordance with AISC Specification for Structural Steel Buildings – Allowable Stress Design or Load Resistance Factor Design, with modifications as stated in the Governing Code.

Steel joists will be designed in accordance with the Steel Joist Institute (SJI) Standard Specifications, Load Tables, and Weight Tables for Steel Joists and Joist Girders with the modifications as stated in the Governing Code.

Steel decking will be designed in accordance with the Steel Deck Institute (SDI) Design Manual for Composite Decks, Form Decks, Roof Decks, and Cellular Deck Floor Systems with Electrical Distribution. Diaphragm action of steel decks will be designed in accordance with the SDI Diaphragm Design Manual.

Cold-formed steel structural members will be designed in accordance with the American Iron and Steel Institute (AISI) Specification for the Design of Cold-Formed Steel Structural Members, with modifications as stated in the governing code.

Cold-formed stainless steel structural members will be designed in accordance with ASCE 8 - Specification for the Design of Cold-Formed Stainless Steel Structural Members.

Aluminum members will be designed in accordance with the Aluminum Association's Specifications for Aluminum Structures.

Materials for use as structural metals will be specified to have the minimum properties detailed in Table 6.8 below.

Table 6.8 Minimum Properties for Structural Metals

Structural steel W shapes	ASTM A992
Structural steel HP shapes	ASTM A572, Grade 50
Structural steel M, S, C and MC shapes, angles, plates, and bars	ASTM A36

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Structural steel tubing	ASTM A500, Grade B
Structural steel pipe	ASTM A53, Type E or S, Grade B
High strength steel bolts	ASTM A325 or ASTM A490
Steel anchor bolts and threaded rods	ASTM F1554 Grade 36
Stainless steel shapes	ASTM A276, Type 304 or 316
Stainless steel plates and sheet	ASTM A167 or A666 Grade A, Type 304 or 316
Stainless steel bolts	ASTM F593, Type 304 or 316
Aluminum structural shapes	ASTM B308, 6061-T6
Aluminum extruded rods, shapes, and tubes	ASTM B221, 6063-T6
Aluminum plates	ASTM B209, 6061-T6
Aluminum sheet	ASTM B221, 3003

6.10 General Description of Structural Systems

6.10.1 Jacobson Reservoir Powder Activated Carbon (PAC) Storage and Feed Building

The proposed improvements at the Jacobson Reservoir Pump Station site include the addition of two slurry mixing tanks located west of the existing pump station building. East of the two tanks will be a pump room and electrical room. The tanks and building addition comprise the PAC Storage and Feed Building.

The two slurry mixing tanks will consist of cast in place reinforced concrete walls supported on a cast in place reinforced concrete mat foundation. The foundation of the tanks will bear near existing grade. The walls will be approximately twenty feet in height. These tanks will be covered with a cast in place concrete slab designed to support the mixers for the tanks as well as the required live loads. Access hatches will be provided for accessing the interior of the tanks. The top slab over the slurry tanks will be sloped as necessary to provide drainage off the structure.

The pump room and electrical room east of the tanks will share a common wall with the tanks. This wall will be waterproofed to minimize exfiltration of moisture from the tanks into the inhabited portions of the structure. This building area will be founded on a cast in place reinforced mat foundation placed monolithic with the slurry tank foundation slab. The superstructure walls will consist of load bearing reinforced concrete masonry with an exterior brick veneer. The roof of the building will consist of prestressed hollow core slabs spanning between the concrete wall of the slurry tanks and the east concrete masonry wall. The roof will be designed as a rigid diaphragm to assist in providing lateral stability to the masonry walls of the building, as well as to transfer lateral loads to the masonry shear walls. The roof of the building structure will slope as necessary for drainage. Roof drains and scuppers with downspouts will collect and remove the drainage from the building.

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6.10.2 Richmond Road Station Chemical Improvements

Two new Chemical Buildings will be constructed at the Richmond Road Station Water Treatment Plant. One building will be constructed on the south side of the plant site within the footprint of the previously demolished Filters and Clearwell No. 2 (Chemical Building 1). This facility will contain liquid lime, polyaluminum chloride, polymer, and sodium permanganate along with mechanical and electrical rooms needed for the new facility. The other building will be constructed east of the Chlorine Contact Basin (Chemical Building 2). This facility will contain sodium hypochlorite, ammonia, fluoride, corrosion inhibitor, and associated mechanical and electrical rooms. The buildings will be designed to match the aesthetics of existing structures on the site including the recently constructed Filter Building.

Both chemical facilities shall consist of cast in place reinforced concrete containment areas supported on a cast in place reinforced concrete mat foundation. The mat will bear approximately five feet below the finished grade elevation. The cast in place reinforced concrete walls surrounding the containment areas will extend from the foundation slab to the finished floor elevation slightly above finished grade. The individual containment areas will be totally isolated for each chemical being contained. As the chemicals being contained are corrosive, the concrete will be protected with coatings appropriate for withstanding the different chemicals. Chemically resistant waterstops and other material will also be used as appropriate for the different chemical exposures. Access into the containment areas will be provided via fiberglass reinforced plastic (FRP) stairs and grated platforms, as appropriate. FRP handrail will also be used for these applications.

The superstructures above the containment areas will likely consist of reinforced rigid concrete frames supporting prestressed hollow core slab roof panels. The concrete columns will extend from the concrete containment walls. The superstructure walls will consist of a two wythe system consisting of an interior wythe of reinforced concrete masonry and an exterior wythe of brick veneer. If the height requirements allow, load bearing masonry walls may be considered in lieu of the concrete frame, but the height of the chemical tanks will likely mandate the use of the concrete frame. The concrete masonry walls will transfer all lateral loads to the reinforced concrete framing members (beams and columns). The exposed superstructure walls, framing members, and roof members will be coated as needed to resist the chemicals contained in the facilities. Means of removal of the containment tanks will be provided either by large wall openings or removable areas of the roof. If wall openings are used, a prefabricated translucent system such as Kalwall will possibly be used to conceal the opening. The roof of the building structures will slope as necessary for drainage. Roof drains and scuppers with downspouts will collect and remove the drainage from the buildings.

6.10.3 Kentucky River Station 1 Chemical Improvements

A new Chemical Building will also be constructed at Kentucky River Station 1 Water Treatment Plant. This facility (Chemical Building 2) will be constructed on the west side of the plant site. This facility will contain sodium hypochlorite, ammonia, sodium permanganate, liquid lime, ferric, and associated mechanical and electrical rooms. The building will be designed to match the aesthetics of existing structures on the site.

This large Chemical Building will consist of cast in place reinforced concrete containment areas supported on a cast in place reinforced concrete mat foundation. The containment areas will exist on both

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the north and south sides of the buildings with an access walkway area between the containment areas. The mat will bear approximately five feet below the finished grade elevation. The cast in place reinforced concrete walls surrounding the containment areas will extend from the foundation slab to the finished floor elevation slightly above finished grade. The individual containment areas will be totally isolated for each chemical being contained. As the chemicals being contained are corrosive, the concrete will be protected with coatings appropriate for withstanding the different chemicals. Chemically resistant waterstops and other material will also be used as appropriate for the different chemical exposures. Access into the containment areas will be provided via fiberglass reinforced plastic (FRP) stairs and grated platforms, as appropriate. FRP handrail will also be used for these applications.

The superstructure above the containment areas will consist of reinforced rigid concrete frames supporting prestressed hollow core slab roof panels. At least one interior column line will be needed for this structure. The concrete columns will extend from the concrete containment walls. The superstructure walls will consist of a two wythe system consisting of an interior wythe of reinforced concrete masonry and an exterior wythe of brick veneer. The concrete masonry walls will transfer all lateral loads to the reinforced concrete framing members (beams and columns). The exposed superstructure walls, framing members, and roof members will be coated as needed to resist the chemicals contained in the facilities. Means of removal of the containment tanks will be provided either by large wall openings or removable areas of the roof. If wall openings are used, a prefabricated translucent system such as Kalwall will possibly be used to conceal the opening. The roof of the building structure will slope as necessary for drainage. Roof drains and scuppers with downspouts will collect and remove the drainage from the building.

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Section 7. Architectural Requirements

7.1 General

The following section outlines approaches to the architectural design for the RRS and KRS-1 Chemical Improvements project in Fayette County, Kentucky. The section will include code compliance issues related to occupancy, type of construction, fire resistance of materials and separation requirements, interior finishes, fire prevention and separation, fire protective systems, means of egress, accessibility, interior environment, exterior wall construction, roof construction, and exterior appearance.

7.2 Architectural Code Requirements

Codes, standards, and references will provide the minimum standard for fire resistance, serviceability and quality of materials used for construction. The 2013 Kentucky Building Code, which references and modifies the 2012 International Building Code (IBC) as adopted and amended by the State of Kentucky, will act as the governing building code. Accessibility issues will be governed by Chapter 11 of the Kentucky Building Code. Provisions of Kentucky Plumbing Code, the International Mechanical Code, 2012 International Energy Conservation Code and NFPA 70 - National Electrical Code will be applied. Additional federal, state and local codes, standards and references will be coordinated and applied in accordance with the Kentucky Building Code. A partial list of these codes and standards follow.

- ACI 530/ASCE 5/TMS 402 – Building Code Requirements for Masonry
- ACI 530.1/ASCE 6/TMS 602 – Specification for Masonry Structures
- American with Disabilities Act
- NFPA 10 – Portable Fire Extinguishers
- NFPA 13 – Installation of Sprinkler Systems
- NFPA 80 – Fire Doors and Fire Windows
- NFPA 704 – Identification of Fire Hazards of Materials
- UL Fire Resistance Directory

In addition to the State and Federal codes, local regulations additionally impact the design of the buildings and include the local Zoning Regulations. The impact of these regulations includes developed area, parking, landscaping, signage and noise.

7.3 General Code Compliance Provisions

The primary occupancy and use of the pump stations and electrical rooms will be Low Hazard Factory Industrial (F-2). The chemical buildings will be classified as Health Hazard Occupancies (H-4). The buildings will be occupied by employees and escorted visitors. The Accessibility Code requires access to

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buildings by people with physical limitations except where exempt by the Code. The building types being designed are exempt from the accessibility requirements of the building code in accordance with the provisions of paragraph 1103.2.9 of the Kentucky Building Code.

The buildings will be designed to provide adequate egress from the building and each room. Exits will open directly to the exterior, exit passageway or stairwell. Exits will be located as remote from each other as possible. Illuminated exit signage and emergency lighting shall be placed throughout the buildings. Fire extinguishers will be located throughout the building and will be compatible with the contents of the room and located a maximum of 75 feet from any point in a building. Generally, the fire extinguishers will be located adjacent to exit doors.

The travel distance within a space or floor having one exit shall not exceed 75 feet. Travel distance to the nearest exit from any point in the building shall not exceed 175 feet with the chemical buildings and 300 feet for other buildings. Travel distance shall take into account travel around fixed pieces of equipment. Equipment and rooms shall not create common path of travel in excess of 75 feet. Paths of travel shall not proceed from a room of low hazard to a room of higher hazard.

Interior finishes will include painted concrete masonry units and concrete. Concrete floors will be sealed except for secondary containment floors will be coated with an impervious secondary containment coating. Ceilings will remain open to the structure above and may be painted within the chemical rooms. Ceilings in narrow corridors and rooms will include a moisture and sag resistant suspended acoustical ceiling system. Fiberglass doors and frames will be utilized.

Exterior walls will be loadbearing or infill masonry and utilize an insulated cavity wall design. The cavity wall design will consist of an interior wythe of concrete masonry, and an outer wythe of brick. A continuous insulation and drainage cavity will be formed between the wythes to enhance energy performance. The cavity will include an air barrier applied to the exterior face of the concrete masonry, 1 ½ to 2 inches of rigid insulation, and a 1" airspace. The cavity will drain through a series of weep vents above the through-wall flashing. A mortar net will be used at the base of the wall to ensure open drainage. The walls will be reinforced to resist loads as required by the 2012 IBC.

Roof shall have a minimal slope of 1/4" per 12" and drain to scuppers along the outside edges of the roof. The slope will be obtained with tapered insulation or sloped structural members where possible. Rigid roof insulation shall be placed above the structural substrate. The roof covering shall consist of a single ply membrane or where design allows a standing seam metal roof system with a self-adhered membrane below the metal roofing system. The roof will be detailed in accordance with the manufacturer's recommendations for a 25-year total system weathertightness warranty.

7.4 Jacobson Reservoir Powdered Activated Carbon Storage and Feed Facility

The site of the Jacobson Reservoir Powdered Activated Carbon Facility is at the base of the Reservoir's dam. The buildings on site represent several different architectural styles. The pump station design will be adjacent to water-containing concrete basins. The concrete basin walls will form one wall of the pump station and electrical room. The common wall between the basin and electrical room will be waterproofed. The roof will slope to one side and discharge through scuppers and downspouts. A roof ladder will be provided to the roof surface and a parapet wall located on three sides. A false wall will be

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considered between the electrical room and concrete basins to prevent moisture moving through the concrete wall. The exterior of the building will be brick and with an expansion joint located adjacent to the concrete tanks.

7.5 Richmond Road Station Chemical Improvements

This site will include two new chemical buildings. The buildings will be designed to complement the new filter building. The buildings will have exterior brick walls with cast stone accents. The ends of the building will include a false façade and hide the standing seam metal roof between the two end walls. The roof will drain to gutters and downspouts. Large openings for removal of chemical storage tanks will be infilled with translucent wall panels.

7.6 Kentucky River Station 1 Chemical Improvements

This site will include one new chemical building. The building will have exterior brick walls to complement the existing Chemical Building. Large openings for removal of chemical storage tanks will be infilled with translucent wall panels.

Section 8. HVAC and Plumbing Requirements

The following section outlines approaches to the HVAC design for the RRS and KRS-1 Chemical Improvements Project. American Water HVAC Standards as well as other applicable codes and standards will be observed.

8.1 HVAC – Chemical Buildings

The HVAC design will be based on the 2013 Kentucky Building Code and 2012 International Mechanical Code. Weather data and design conditions will be based upon the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) 99% winter and 1% summer conditions for Lexington, Kentucky. The primary heating fuel will be coordinated with the local utilities.

The chemical buildings will house chemicals above the exempt amounts according to the Kentucky Building Code, thus will need to meet the minimum ventilation rates for a H-4 Occupancy. Chemical rooms will have a minimum ventilation of 1 cfm per foot or 6 (six) air changes per hour continuously within chemical storage and feed rooms. Exhaust air shall be interlocked with a make-up air system. The rooms will be kept under a slight negative pressure in relation to non-chemical and electrical room spaces. There will be separate exhaust fan systems for each chemical and a common make-up air handling unit with integral heat for make-up air system. Additional redundant unit heaters may be provided as deemed necessary. All ductwork, and equipment will be corrosion resistant materials and compatible with the chemicals being stored. Heating will be designed to maintain a minimum temperature of 65 degrees F.

The electrical rooms in the Chemical Buildings will be kept below the maximum rated temperature of the electrical gear and control panels through a filtered outside air intake, to draw air in, and exhaust ventilation to remove air. Air conditioning of the room is not anticipated since none of the proposed equipment inside is heat sensitive.

8.2 Plumbing – Chemical Buildings

The plumbing design will be based on the Kentucky Building Code and Kentucky State Plumbing Law, Regulations and Code Book.

Corrosive chemicals are required to have an emergency eyewash/shower system. The emergency eyewash/shower system will be in view of the hazards and accessed without encountering obstacles. To comply with ANSI Z 358.1 a tempered water system will be required to deliver water to each emergency eyewash/shower systems. The tempered water system will be designed to feed two emergency showers operating simultaneously.

H-4 occupancies require the inclusion of a fire suppression system, typically a NFPA 13 compliant fire sprinkler system. Where the number of heads are less than 20, a limited area fire suppression system will be utilized. Where the installation is required within a space that is considered wholly non-combustible, a conversation will be held with the local fire official to determine if a fire detection system can be installed in lieu of the fire sprinkler system.

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Section 9. Electrical Requirements

Electrical improvements will be required for all sites related to the RRS and KRS-1 Chemical Improvements project in order to accommodate the treatment process improvements proposed under this contract.

9.1 General Electrical Design Criteria

Outdoor, exposed conduit will be specified as PVC-coated rigid steel conduit. Schedule 80 PVC conduit will be utilized in all indoor chemical transfer and storage areas. Non-chemical areas will be provided with rigid galvanized steel conduits. Underground conduit will be concrete-encased PVC schedule 40. All underground power conductors will be XHHW-2. THHN/THWN building wire will be used for lighting, receptacle, control, and other miscellaneous power wiring within buildings. All analog signaling will utilize twisted, shielded pairs or triads as required by the application. No wire nut-type splices will be allowed for conductors with the exception of lighting and receptacle circuits. Splicing in all other wiring applications shall be at terminal blocks, power blocks, or for motor housing leads, crimp-type connectors.

Lighting will be provided as needed at levels recommended by IES for the proposed buildings. Moist areas will dictate corrosion-resistant material be specified for fixtures. All indoor fixtures will be placed at serviceable heights and locations whenever possible. Wall pack type lighting will be utilized over exterior doors. Outdoor pole mounted site lighting (if required) will be contracted through Kentucky Utilities. All lighting specified for installation under this contract will be based on LED technology.

Ground grids will be provided around the perimeter of the proposed buildings. Ground rods with inspection wells will be provided at evenly-spaced intervals and exothermically welded to a bare #4/0 buried copper conductor. The need for lightning protection for the structures will be discussed with KAW personnel during design and, if implemented, will be connected to the ground grid.

KAW will contract with ADT security company directly for security cameras and building access. Scope of ADT work is yet to be determined. Hazen and Sawyer will coordinate with ADT once scope is established to facilitate installation of security equipment.

American Water Company Corporate Electrical Standards as well as other applicable codes and standards will be observed during design of the project.

9.2 Jacobson Reservoir Powdered Activated Carbon Storage and Feed Building

An electrical room will be provided as part of the Powdered Activated Carbon Storage and Feed Building. The room will be isolated from the pump room and slurry mixing tanks, and allow electrical equipment to be located outside of the Class II hazardous areas that are associated with powdered activated carbon. The electrical room will be ventilated with a fan and louver system to control the heat gain in the space. Air conditioning of the room is not anticipated since none of the proposed equipment inside is heat sensitive. The electrical room will be provided with redundant sources of power from the nearby pump station. An automatic transfer switch (ATS) to automatically transfer to the available source of power, a power panel, a lighting panel, and motor control units will be provided in the electrical room to serve the small loads

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associated with the facility. The proposed one-line diagram for the Jacobson Reservoir is provided on Drawing E101.

9.3 Richmond Road Station Chemical Improvements

Two chemical buildings are proposed, each in a different location on the plant site. Each chemical building will be provided with an integral electrical room that is isolated from the chemical storage and feed spaces. The electrical rooms will be ventilated with a fan and louver system to control the heat gain in the space. Air conditioning of the rooms is not anticipated since none of the proposed equipment inside is heat sensitive. Each electrical room will contain a main-tie-main motor control center, an automatic transfer switch to provide redundant sources of power to the low voltage panel boards, power panels and lighting panels, to serve the various loads of each building.

The redundant power supplies for the new Chemical Building No.2 will be obtained from the nearby existing Chemical Building No.2. Under a recently completed project, a new 500kW standby generator and new electrical distribution was installed at this building. The feeders from these existing sources will be rerouted to the new electrical distribution equipment in the new Chemical Building No.2. Since the new electrical loads at the new Chemical Building No.2 are relatively small, adequate electrical capacity is available at the existing Chemical Building No.2 source. The proposed one-line diagram for the new Chemical Building No.2 is provided in Drawing E221.

Redundant power supplies for the Chemical Building No.1 are not available at any nearby buildings. Therefore, the Engineer will contact Kentucky Utilities to set up a new electrical service drop for the building. Prior to the recent demolition of the existing filters in the same area, there was a service drop from Kentucky Utilities. For a second, independent source of power to this building, a standby generator receptacle will be provided on the exterior of the building. This receptacle will allow KAW to quickly connect one of the portable standby generators in their fleet. The proposed one-line diagram for Chemical Building No.1 is provided in Drawing E201.

9.4 Kentucky River Station 1 Chemical Improvements

An electrical room will be provided as part of the new Chemical Building No.2 at KRS1. The electrical room will be physically separated from the chemical storage and feed spaces. Similar to the other chemical buildings, the electrical room will be ventilated to control the heat gain in the space. No air conditioning of the rooms is anticipated since none of the proposed equipment inside is heat sensitive. The primary source of power for the new Chemical Building No.2 will either be supplied from one of the existing Substations (Substations "A" or "B") in the Control Building or Substation "E" located near the existing Switchgear Room. The existing sources will be further evaluated during detailed design to provide the most cost effective and reliable power supply to Chemical Building No.2. A redundant/standby source of power will be provided by installing a generator receptacle on the exterior of the building. The electrical room will contain a new main-tie-main motor control center, automatic transfer switch, power panels and lighting panels to serve the various building loads. The proposed one-line diagram for Chemical Building No.2 is provided in Drawing E301.

Additionally, a day tank and metering pumps will be furnished at the Low Service Pump Station. It is anticipated that existing low voltage panelboards can be used to supply the metering pumps.

Section 10. Instrumentation and Controls Requirements

10.1 Jacobson Reservoir Powdered Activated Carbon Storage and Feed Facility

There are two (2) Remote Telemetry Units (RTU) located at the facility. One RTU is located in the pump building (RTU-JRES) and a second is located in the Switchgear Building (RTU-JRES-A). RTU-JRES houses the connections from the sodium permanganate storage and feed system, the pumps intake tower structure, metering structure and other devices. RTU-JRES-A contains the connections from the pumps variable speed drives, automatic transfer switch, generator and other devices. RTU-JRES and RTU-JRES-A are connected using fiber optic cable. The RTUs utilize serial (RS232) communication. RTU-JRES uses a Microwave Data Systems (MDS SD9) radio to send and receive data to the Richmond Road Station (RRS) Water Treatment Plant utilizing the Tates Creek repeater.

The new Powder Activated Carbon Storage and Feed Facility will contain a plant PLC (RTU) in the electrical room. The new RTU will be connected using fiber optic cable to RTU-JRES. The Emerson ControlWave CPU has four (4) serial communication ports. There is one spare serial port that could be used to connect the new building RTU to RTU-JRES. The current MOXA media converter within the RTU-JRES enclosure would need to be replaced with a model that could convert two separate fiber optic cable inputs to two separate serial outputs or an additional media converter added. Another option to be evaluated during design would be to convert this facility to Ethernet protocol. Each existing RTU ControlWave CPU has an Ethernet port currently available. Managed Ethernet switches at each RTU would be required in lieu of the MOXA media converters.

The PLC and Operator Interface Terminals (OIT) configuration for both existing RTUs will be modified, as required, to accommodate the addition of the new carbon system. Radio communication will be modified to include the transmission of appropriate signals to RRS.

10.2 Richmond Road Station Chemical Improvements

The RRS control system is arranged in a ring configuration with strategically located Emerson ControlWave series Programmable Automation Controllers (PAC) throughout the site. The PACs are connected using fiber optic or Cat 5/6E cable utilizing Ethernet TCP/IP protocol. Each new chemical building shall each have an electrical room that will contain a plant PAC in their respective electrical rooms. The new PACs will be connected into the existing fiber ring network utilizing the closest PAC unit to each chemical building. During design the option of providing remote I/O (I/O modules only, no processor) will be evaluated for potential cost savings.

Each new plant PAC will contain a processor, input and output modules, Ethernet switch, OIT, 24 VDC power supplies, and uninterruptable power supplies (UPS). All PAC components will be compatible with the existing system for ease of integration and maintenance. The PAC and OITs configuration for both existing and new PACs will be modified, as required, to accommodate the addition of the new chemical systems and the removal/relocation of others.

Each new chemical system will have the ability to be operated in a Remote-Automatic or Remote-Manual mode. In Remote-Automatic mode, the control systems will turn on and off equipment, modulate valves

Hazen *Memorandum*

and control the speed of the metering pumps to meet the process set points entered at the operator system interfaces. In Remote-Manual mode, the operators will have the ability to turn on or off equipment or enter the speed rates for the metering pumps. Both modes of operation will be accessible from the Plant Control Room located in the Pump Station and through the OITs located on face of the new plant PAC enclosures. Operations will have the ability to respond to alarms, set control parameters and monitor the process from the OITs.

The SCADA Human Machine Interface (HMI) for the operator workstations will utilize the existing Iconics HMI software. HMI screens will be created for the new sodium hypochlorite, liquid lime, aqueous ammonia, and sodium permanganate systems. Existing HMI screens will be modified as needed for polyaluminum chloride, polymer, fluoride, and corrosion inhibitor. The powder activated carbon system that is being relocated to the Jacobson Reservoir will be removed from the area PAC that the carbon system is currently hardwired to as well as any PAC programming, OIT and HMI configuration as required. Existing Iconics alarm management software will be utilized to provide real time alarm information to off-site personnel. The existing SCADA servers will gather data on the new chemical systems equipment as well as any new power monitoring. Modification of existing reports or the creation of new reports that are required by KAW will be included in this project. During design the HMI software and database capacity will be evaluated and updated or expanded as required.

10.3 Kentucky River Station 1 Chemical Improvements

The Kentucky River Station 1 (KRS-1) control system is arranged in a ring configuration with strategically located Emerson ControlWave series Programmable Automation Controllers (PAC) throughout the site. The PACs are connected using fiber optic or Cat 5/6E cable utilizing Ethernet TCP/IP protocol. The new chemical building shall each have an electrical room that will contain a plant PAC in the electrical room. The new PAC will be connected into the existing fiber ring network utilizing the closest PAC unit in either the Transfer Station (RTU D) or the Plant Control Room (RTUDC) to each chemical building. During design the option of providing remote I/O (I/O modules only, no processor) will be evaluated for potential cost savings.

As stated above for the RRS chemical improvements, the chemical systems will be able to be run in Remote-Automatic and Remote-Manual modes, existing Iconics HMI and alarm software will be updated to reflect the new chemical systems. HMI screens will be created for the new sodium hypochlorite, liquid lime, aqueous ammonia, and sodium permanganate systems. The existing HMI screen for ferric chloride will be modified as needed.

For all three facilities, any PAC, communication, and appurtenant hardware or software that would be required on this project will be coordinated with and, where applicable, purchased through American Water's ITS group.

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Section 11. Preliminary Cost Estimate

The preliminary cost estimate for the RRS and KRS-1 Chemical Improvements project can be found below in Table 11.1.

Table 11.1 Preliminary Cost Estimate

CSI Division	Description of Work	Jacobson Reservoir	Richmond Road Station	Kentucky River Station 1
Division 1	General Requirements	\$165,000	\$385,000	\$315,000
Division 2	Sitework	\$104,000	\$561,000	\$498,000
Division 3	Concrete	\$441,000	\$885,000	\$1,092,000
Division 4	Masonry	\$52,000	\$1,129,000	\$935,000
Division 5	Metals	\$32,000	\$185,000	\$167,000
Division 6	Wood and Plastics	\$8,000	\$32,000	\$26,000
Division 7	Thermal and Moisture Protection	\$29,000	\$319,000	\$245,000
Division 8	Doors and Windows	\$11,000	\$317,000	\$224,500
Division 9	Finishes	\$18,000	\$226,000	\$210,000
Division 10	Specialties	\$3,000	\$20,000	\$11,000
Division 11	Equipment General Provision	\$325,000	\$587,000	\$529,000
Division 12	Furnishings	--	--	--
Division 13	Special Construction	--	\$761,000	\$744,000
Division 14	Conveying Systems	--	--	--
Division 15	Mechanical	\$166,000	\$1,493,000	\$1,102,000
Division 16	Electrical	\$185,000	\$1,043,000	\$875,000
Division 17	Control and Information Systems	\$105,000	\$540,000	\$455,000
Subtotal		\$1,644,000	\$8,483,000	\$7,428,500
Contingency 25%		\$411,000	\$2,120,750	\$1,857,125
Estimated Total		\$2,055,000	\$10,603,750	\$9,285,625

Section 12. Maintenance of Plant Operation During Construction

12.1 General

The intent of this section is to outline the minimum requirements necessary to provide continuous water treatment throughout the construction period.

Existing facility operation will be continuously maintained by KAW at RRS, KRS-1, and Jacobson Reservoir during the entire construction period. Construction work will be scheduled so as not to impede any treatment process, reduce the quality of the finished water, or result in any other nuisances.

The Construction Manager at Risk (CMAR) and Hazen team will coordinate the design and construction as well as the mechanical, electrical and instrumentation construction schedules. The CMAR will ensure the availability of permanent or temporary power for all existing, proposed, and temporary facilities that are required to be on-line at any given time. All treatment processes will be maintained in continuous operation during the construction period except during approved process interruptions.

No major or critical shutdowns are anticipated during the construction of the chemical systems improvements. All system or partial system shutdowns and diversions will be approved, coordinated, and scheduled at times suitable to KAW. Any shutdowns required will be fully coordinated with KAW at least 7 days before the scheduled shutdown. Shutdowns will typically be scheduled for weekend or midnight low flow periods and will be limited depending on distribution system flow rate demand and storage volume in the distribution and treatment systems. KAW will have the authority to order work stopped or prohibited that would, in its opinion, unreasonably result in interrupting the necessary functions of the plant operations. Shutdowns will not begin until all required materials are on hand and ready for installation. The CMAR team shall proceed with the work continuously, from start to finish, until the work is completed and normal plant operation is restored.

12.2 Specific Construction Constraints

Listed in this section are specific construction constraints and shutdowns required for the different project components. Work not specifically covered in the following paragraphs may, in general, be done at any time during the contract period, subject to the operating requirements and constraints, and construction requirements. Section 2 presents the proposed construction schedule for this project, taking into account continuous plant operation, and the construction constraints, KAW's scheduled treatment process train shutdowns and minor shutdowns identified in this section.

At RRS, Chemical Building 1 will be provided to house liquid lime, polyaluminum chloride, polymer, and sodium permanganate storage and feed systems, and a separate Chemical Building 2 will be provided to house sodium hypochlorite, aqua ammonia, fluoride, and corrosion inhibitor storage and feed systems, as shown in the Drawings. The construction sequence would be as follows:

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1. Construct the new powdered activated carbon (PAC) storage and feed system at Jacobson Reservoir.
2. Construct the new Chemical Building 1 in the previous filter building location. During the construction of the new chemical building, the existing chemical systems would operate without interruption.
3. Once the building is constructed and operational, the existing sodium permanganate storage and feed system at Jacobson Reservoir would be decommissioned.
4. Implement temporary chemical feed systems for aqua ammonia, fluoride, and corrosion inhibitor.
5. Demolish the existing Chemical Building Number 2 housing powdered activated carbon (PAC), gaseous ammonia, polymer, polyaluminum chloride (PACl), fluoride, and corrosion inhibitor (phosphate).
6. Construct the new Chemical Building 2.
7. Once the building is constructed and operational, the existing Chemical Building Number 1 housing gaseous chlorine and caustic would be decommissioned and demolished.

At KRS-1, Chemical Building 2 will be provided to house sodium permanganate, ferric chloride, liquid lime, sodium hypochlorite, and aqua ammonia, as shown in the Drawings. The construction sequence would be as follows:

1. Construct the new Chemical Building 2.
2. Once the building is constructed and operational, the existing sodium permanganate, ferric chloride, caustic, chlorine gas, and ammonia gas storage and feed systems would be decommissioned and demolished.

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Section 13. Acceptable Equipment Manufacturers

13.1 Equipment Manufacturers

The following is a list of manufacturers around which equipment will be specified for the KAW RRS and KRS-1 Chemical Improvements project. Table 13.1 details chemical storage and feed equipment while Table 13.2 details instrumentation equipment.

Table 13.1 Chemical Storage and Feed

Equipment Description	Manufacturers
XLHDPE Chemical Storage Tanks	Poly Processing or Equal
FRP Chemical Storage Tanks	Justin Tank Belco Ershigs Plas-Tanks
Steel Chemical Storage Tanks	General Industries Modern Welding Company Dominion Tank & Vessel Highland Tank
Tank Mixers	Philadelphia Mixing Solutions Lightnin – SPX Flow Chemineer
Dust Collector	Coperion K-Tron or Equal
Magnetic Drive Centrifugal Transfer Pumps	March Manufacturing Inc. Iwaki Walchem
Hydraulic Diaphragm Metering Pumps	Lutz-JESCO Pulsafeeder Pulsa Series or Equal
Mechanical Diaphragm Metering Pumps	Grundfos DME Series ProMinent Sigma Series UGSI Encore 700 or Equal
Peristaltic Hose or Tube Pumps	Verder Watson Marlow or Equal
Chemical Sump Pumps	BJM Corporation or Equal
PVC and CPVC Piping and Fittings	CertainTeed IPEX Georg Fischer Chemtrol/NIBCO or Equal
HDPE Pipe	Asahi/America Chem Proline or Equal

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Equipment Description	Manufacturers
PVC / CPVC Valves	Chemtrol/NIBCO IPEX Georg Fischer Colonial Engineering
Solenoid Valves	ASCO or Equal
Emergency Shower / Eyewash	Bradley Corporation Haws Corporation
Softening System	Evoqua or Equal

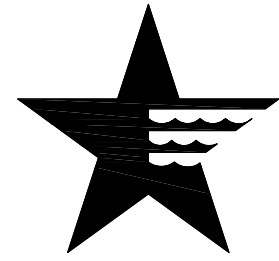
Table 13.2 Instrumentation

Equipment Description	Manufacturers
Point Level Switch – RF Admittance	Drexelbrook ABB Endress Hauser
Ultrasonic Level Transmitters	Endress Hauser Drexelbrook Siemens
Radar Level Transmitters	Endress Hauser Ohmart-Vega Siemens Magnetrol
Pressure Transmitters	Emerson (Rosemount)
Chlorine Analyzers	HACH
ORP Analyzers	HACH
Float Level Switches	Madison Company Flygt or Equal
Flow Switches	Dwyer Instruments FlowTech KOBOLD
Turbine Flowmeters	Sensus Schlumberger McCrometer
Pressure Gauges	Ashcroft or Equal
Diaphragm Seals	Red Valve
Rotameters	King Instruments or Equal
Pressure Switches	Ashcroft Dwyer or Equal
RTU	Emerson ControlWave
Operator Interface Terminals	Maple

Section 14. Design Drawings

The KAW RRS and KRS-1 Chemical Improvements project drawings are included at the end of this section. An index of the drawings is listed on [Drawing G1](#).

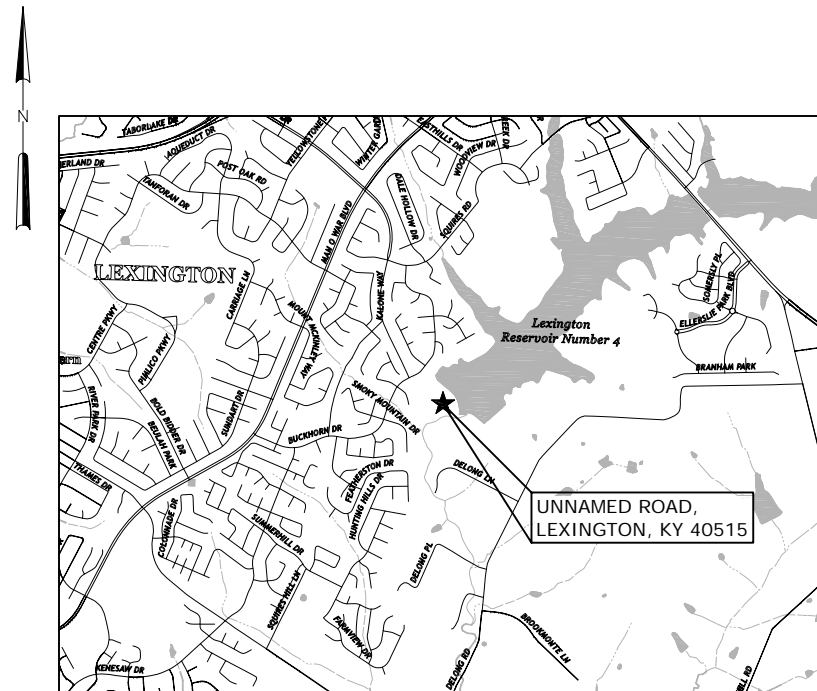
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KENTUCKY AMERICAN WATER

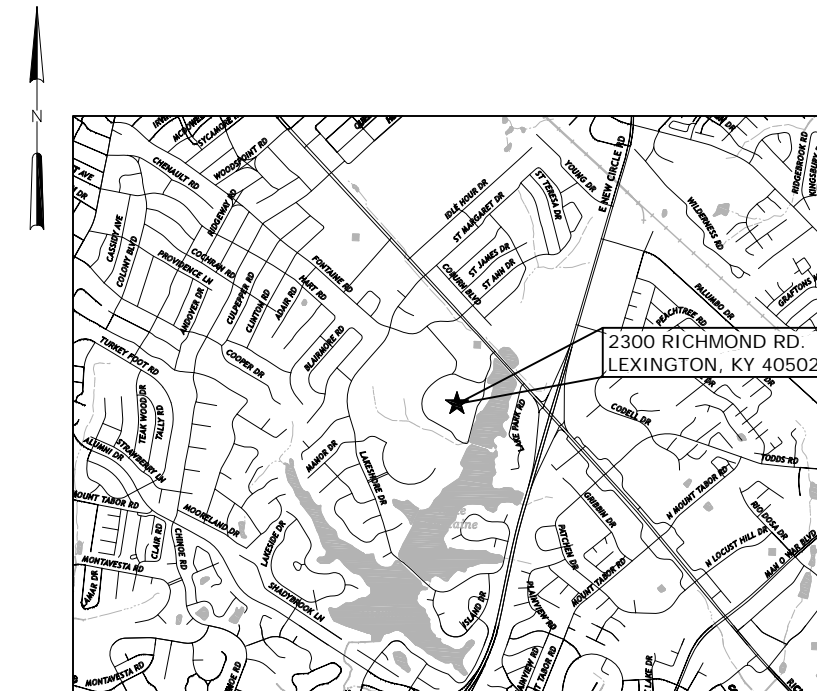
RRS AND KRS-1 CHEMICAL IMPROVEMENTS PROJECT

DECEMBER 2017



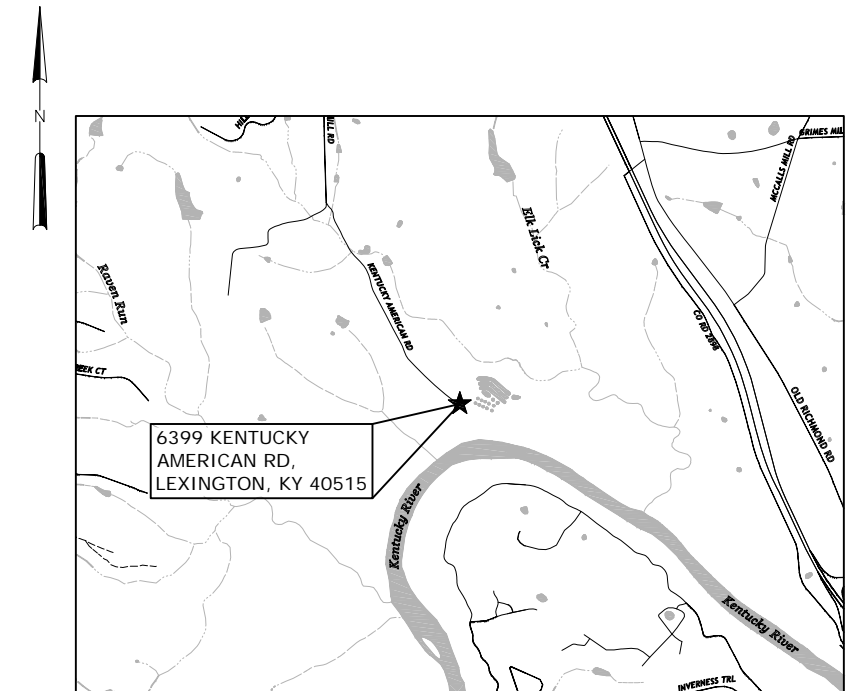
JACOBSON RESERVOIR PUMP STATION

LOCATION MAP
NOT TO SCALE



RICHMOND ROAD STATION

LOCATION MAP
NOT TO SCALE



KENTUCKY RIVER STATION 1

LOCATION MAP
NOT TO SCALE



HAZEN AND SAWYER
230 LEXINGTON GREEN CIRCLE, SUITE 520
LEXINGTON, KY 40503

GENERAL

DWG NO	DWG TITLE
	COVER
G1	DRAWING INDEX
G2	ABBREVIATIONS, SYMBOLS, AND LEGEND
G20	PROCESS FLOW DIAGRAM
G30	PROCESS FLOW DIAGRAM

MECHANICAL

DWG NO	DWG TITLE
JACOBSON RESERVOIR PUMP STATION	
SITE WORK	
M10	SITE PLAN
M11	CHEMICAL INJECTION VAULT #1
M12	CHEMICAL INJECTION VAULT #2
M13	CHEMICAL INJECTION VAULT #3
CARBON SLURRY TANKS	
M100	BOTTOM PLAN
M101	TOP PLAN
M102	SECTIONS
M103	SECTIONS
M104	3D VIEWS
SCHEMATICS	
M150	POWDERED ACTIVATED CARBON STORAGE AND FEED SYSTEM

RICHMOND ROAD STATION

SITE WORK	
M20	SITE PLAN
CHEMICAL BUILDING 1	
M200	OVERALL PLAN AND SECTION
M201	3D VIEW
CHEMICAL BUILDING 2	
M220	OVERALL PLAN AND SECTION
M221	3D VIEW
SCHEMATICS	
M250	SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC
M251	POLYALUMINUM CHLORIDE STORAGE AND FEED SYSTEM SCHEMATIC
M252	LIQUID LIME STORAGE SYSTEM SCHEMATIC
M253	LIQUID LIME FEED SYSTEM SCHEMATIC
M254	COAGULANT-AID POLYMER STORAGE AND FEED SYSTEM SCHEMATIC
M255	SODIUM HYPOCHLORITE STORAGE SYSTEM SCHEMATIC
M256	SODIUM HYPOCHLORITE FEED SYSTEM SCHEMATIC
M257	AMMONIUM HYDROXIDE STORAGE AND FEED SYSTEM SCHEMATIC
M258	HYDROFLUOSILICIC ACID STORAGE AND FEED SYSTEM SCHEMATIC
M259	CORROSION INHIBITOR STORAGE AND FEED SYSTEM SCHEMATIC

KENTUCKY RIVER STATION 1

SITE WORK	
M30	SITE PLAN
CHEMICAL BUILDING 2	
M300	PLAN AT EL 894.00
M301	PLAN AT EL 914.00
M302	SECTIONS
M303	SECTIONS
M304	3D VIEWS
M305	3D VIEWS
SCHEMATICS	
M350	SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC 1 OF 2
M351	SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC 2 OF 2
M352	FERRIC CHLORIDE STORAGE AND FEED SYSTEM SCHEMATIC
M353	LIQUID LIME STORAGE SYSTEM SCHEMATIC
M354	LIQUID LIME FEED SYSTEM SCHEMATIC
M355	SODIUM HYPOCHLORITE STORAGE SYSTEM SCHEMATIC
M356	SODIUM HYPOCHLORITE FEED SYSTEM SCHEMATIC
M357	SODIUM HYPOCHLORITE STORAGE SYSTEM SCHEMATIC
M358	AMMONIUM HYDROXIDE STORAGE AND FEED SYSTEM SCHEMATIC
LOW SERVICE PUMP STATION	
M400	PLAN

ELECTRICAL

DWG NO	DWG TITLE
ALL SITES	
E1	LEGENDS AND SYMBOLS
E2	ABBREVIATIONS AND GENERAL NOTES
JACOBSON RESERVOIR PUMP STATION	
CARBON SLURRY TANKS	
E100	TOP PLAN - POWER
E101	SINGLE LINE DIAGRAM
RICHMOND ROAD STATION	
CHEMICAL BUILDING 1	
E200	TOP PLAN - POWER
E201	SINGLE LINE DIAGRAM
CHEMICAL BUILDING 2	
E220	TOP PLAN - POWER
E221	SINGLE LINE DIAGRAM
KENTUCKY RIVER STATION 1	
CHEMICAL BUILDING 2	
E300	TOP PLAN - POWER
E301	SINGLE LINE DIAGRAM

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PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

**BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION**



**KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY**

**RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT**

ALL SITES

**GENERAL
DRAWING INDEX**

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	G1

ABBREVIATIONS

A	ANCHOR BOLT ALTERNATING CURRENT ACOUSTIC TILE AREA DRAIN ADDITIONAL ADJUSTABLE ABOVE FINISHED FLOOR AGGREGATE ALUMINUM ALLOWANCE OR ALLOWABLE ALTERNATE APPROXIMATE ARCHITECTURAL AIR RELEASE VALVE ASBESTOS ASPHALT ASPHALT TILE	E	EAST OR EASEMENT EACH ECCENTRIC EACH FACE EFFLUENT EXIST IRON PIPE ELEVATION ELECTRIC OR ELECTRICAL ELBOW ENGINEER ENTRANCE EDGE OF GRAVEL EDGE OF PAVEMENT EQUAL EQUIPMENT EACH WAY EXISTING EXCAVATE EXHAUST EXPANSION EXTERIOR	I	IRON INSIDE DIAMETER INSIDE FACE INCH INCLUDED INFLUENT INSULATION INTERIOR INVERT	J	JOIST JUNCTION BOX JUNCTION JOINT	L	LENGTH OR ANGLE LINE AHEAD LABORATORY LAMINATED LATERAL LAVATORY POUND OR LINE BACK LINEAR FEET LONG LIVE LOAD LEAD / LAG LONG LEG HORIZONTAL LONG LEG VERTICAL LIGHT POLE LOW POINT LONG RADIUS LIGHT LIGHTING LOUVER LOW WATER LEVEL	M	MAINTENANCE MATERIAL MAXIMUM MECHANICAL MEMBRANE METAL MANUFACTURER MILLION GALLONS MILLION GALLONS PER DAY MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT MECHANICAL JOINT BY FLANGE MECHANICAL JOINT BY MECHANICAL JOINT MECHANICAL JOINT BY PLAIN END MECHANICAL JOINT BY RESTRAINED JOINT	P	PARALLEL POINT OF CURVE OR PIECE POINT OF COMPOUND CURVE POUNDS PER CUBIC FOOT PULSATION DAMPENER POLYETHYLENE LINING PERFORATED PERPENDICULAR POINT OF INTERSECTION PROPERTY LINE OR PLATE PANEL POWER POLE PREFABRICATED PRESSURE RELIEF VALVE PUMPING STATION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT OF TANGENT, POINT OR PAINT PARTITION PLUG VALVE POLYVINYL CHLORIDE PAVEMENT POTABLE WATER	Q	QUANTITY	R	RADIUS OR RISER REINFORCED CONCRETE PIPE ROAD OR ROOF DRAIN RECIRCULATION RECEPTACLE RECTANGULAR REDUCER REFERENCE REGISTER REINFORCING REMOVE REQUIRED RESTRAINED REVISE ROOF ROOFING RESTRAINED JOINT RESTRAINED JOINT BY FLANGE RESTRAINED JOINT BY PLAIN END RESTRAINED JOINT BY RESTRAINED JOINT ROOM ROUND ROUGH OPENING REVOLUTIONS PER MINUTE RAILROAD RIGHT REMOTE TERMINAL UNIT RAW WATER RIGHT OF WAY	S	SOUTH OR SLOPE SANITARY SURVEY BASELINE SCHEDULE STORM OR SITE DRAIN SECTION SERVICE SEWER SQUARE FEET SHEET SQUARE INCH SIMILAR STEEL JOIST SPECIFICATION SQUARE SANITARY SEWER STAINLESS STEEL STREET STATION STANDARD STORAGE STIRRUP STEEL STRUCTURAL SUBSTITUTE SUPPLY SUPERINTENDENT SURFACE SUSPENDED SWITCH SWITCHBOARD SIDE WATER DEPTH SYMMETRICAL	T	TREAD TRAIN 1 TRAIN 2 TOP AND BOTTOM TONGUE AND GROOVE TANGENT TEMPORARY BENCH MARK TOP OF CURB TOTAL DYNAMIC HEAD TECHNICAL TELEPHONE TEMPERATURE TERRAZZO THERMOSTAT THICK THROUGH TOP OF DECK TOP OF FOOTING TOP OF MASONRY OR MANHOLE TOP OF SLAB/STEEL TOP OF WALL TOLERANCE TWISTED PAIR SHIELDED TRANSFORMER TYPICAL	U	UNDERGROUND UNIT HEATER UNFINISHED UNLESS NOTED OTHERWISE URINAL UTILITY	V	VACUUM VINYL ASBESTOS TILE VITRIFIED CLAY PIPE VELOCITY VENTILATING OR VENTILATION VERTICAL VOLUME VENT PIPE VINYL WALL COVERING	W	WEST, WIDTH OR WIDE FLANGE WITH WATER CLOSET WIDE FLANGE WALL HYDRANT WROUGHT IRON WATER LEVEL WATER LINE WINDOW OPENING WITHOUT WATERPROOF WATER PROOFING WALL PENETRATING TYPE WATER SURFACE ELEVATION WEATHERSTRIP WEIGHT WATER VALVE WELDED WIRE FABRIC	Y	YARD YEAR
B	BORING BOARD BOTTOM OF FITTING ELEVATION BUTTERFLY VALVE BITUMINOUS BASELINE OR BUILDING LINE BUILDING BLOCK BENCH MARK BACK OF CURB BOTTOM BEARING BRICK BRONZE BASEMENT BOLT BUILT-UP ROOFING BALL VALVE	F	FABRICATE FLAT BAR FRAME AND COVER FRAME AND GRATE FLUSHING CONNECTION FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FINISH FLOOR FIRE HYDRANT FINISH FIXTURE FLASHING OR FLOOR FLEXIBLE FLANGE FLANGE BY FLANGE FLANGE BY PLAIN END FLUORESCENT FLEXIBLE CONNECTION FORCE MAIN FIREPROOF FIBERGLASS REINFORCED POLYESTER LAMINATE FEET FOOTING OR FITTING FURRING OR FURRED	G	GAS OR GAS LINE GAUGE GRANULAR ACTIVATED CARBON GALLON GALVANIZED GENERAL CONTRACTOR GENERATOR GALVANIZED IRON GLASS GALLONS PER MINUTE GRADE GATE VALVE GUY WIRE GYPSUM WALL BOARD GLAZED WALL FINISH GYPSUM	N	NORTH NOT APPLICABLE NEAR FACE NOT IN CONTRACT NUMBER NOMINAL NON POTABLE WATER NOT TO SCALE	O	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OFFICE OPERATOR OPENING OPPOSITE ORIGINAL OPEN TRUSS OVERHEAD OVERSIZE	C	CLOSET/CARPET/CHANNEL CABINET COMBINATION AIR/VACUUM RELIEF CATCH BASIN CENTER TO CENTER CONSTRUCTION EASEMENT CEMENT CERAMIC CUBIC FEET CUBIC FEET PER MINUTE CAST IRON OR CUBIC INCHES CAST IRON PIPE CENTER LINE CHLORINE CEILING CAULKING CLEAR CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONSTRUCTION CONTINUOUS CONTRACTOR CORPORATION CORRIDOR CONCRETE PLANK COURSE CERAMIC TILE CONTROL JOINT COPPER CHECK VALVE COLD WATER CUBIC YARD	H	HEIGHT HARDWARE HEXAGONAL HOLLOW METAL HORIZONTAL HORSEPOWER HIGH POINT HOLLOW STRUCTURAL SECTION HEATER HEATING, VENTILATION AND AIR CONDITIONING HOT WATER HIGH WATER LEVEL HIGHWAY HYDRAULIC, HYDRANT	D	DIRECT CURRENT DETAIL DRINKING FOUNTAIN DIAMETER DIAGONAL DIMENSION DUCTILE IRON PIPE DISCHARGE DISTRIBUTION DOUBLE JOIST DEAD LOAD DOWN DISSOLVED OXYGEN DOZEN DOOR DRAWING DOWEL														

PROCESS PIPE DESIGNATIONS

AH	AMMONIUM HYDROXIDE
AMM	AMMONIA
BWS	BACKWASH SUPPLY
BWW	BACKWASH WASTE
CAP	COAGULANT-AID POLYMER
CI	CORROSION INHIBITOR
D	DRAIN
FC	FERRIC CHLORIDE
FLW	FILTERED WATER
FTW	FILTER TO WASTE
FW	FINISHED WATER
HF	HYDROFLUOSILICIC ACID
LL	LIQUID LIME
PAC	POWDERED ACTIVATED CARBON
PACI	POLYALUMINUM CHLORIDE
POLY	POLYMER
SH	SODIUM HYPOCHLORITE
SP	SODIUM PERMANGANATE
SW	SETTLED WATER

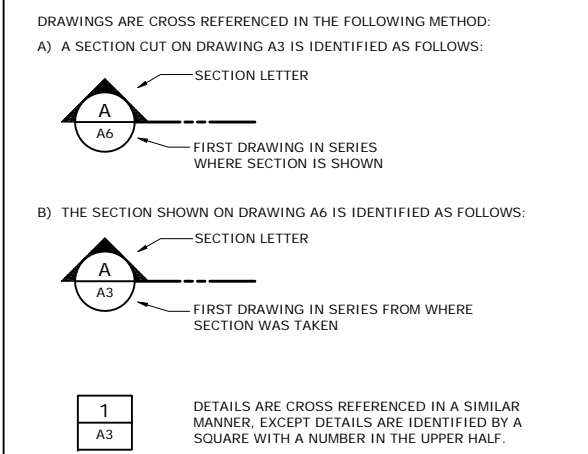
MATERIALS

	GRADE OR EARTH		ROCK
	ASPHALT PAVING		STEEL
	SAND		INSULATION
	GRAVEL		WATER SURFACE
	CONCRETE		GRATING
	CONC FILL OR GROUT		CHECKED PLATE
	CONC MASONRY UNIT		GLASS
	BRICK		WOOD BLOCKING

SYMBOLS

	GATE VALVE		WALL PENETRATION
	BUTTERFLY VALVE		MECHANICAL COUPLING
	PLUG VALVE (NORMALLY OPEN)		WELDED JOINT
	PLUG VALVE (NORMALLY CLOSED)		FLANGED JOINT
	SWING CHECK VALVE		MECHANICAL, PUSH ON OR RESTRAINED JOINT
	GLOBE VALVE		SLUICE GATE
	PINCH VALVE		SLIDE GATE OR STOP GATE
	DIAPHRAGM VALVE		FLUSHING CONNECTION
	BALL VALVE		HOSE BIBB
	BALL CHECK VALVE		QUICK DISCONNECT FITTING
	HARNESSED FLANGED ADAPTER		YARD HYDRANT
	HARNESSED SLEEVE TYPE COUPLING		FIRE HYDRANT
	SLEEVE TYPE COUPLING		SOIL BORING
	HARNESSED FLEXIBLE COUPLING		

SECTION AND DETAIL KEYING



LINE TYPES

	PROPOSED ITEMS
	EXISTING ITEMS
	HIDDEN ITEMS
	DEMOLITION ITEMS
	CENTER LINE
	MATCH LINE

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PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
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KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT

ALL SITES

GENERAL
 ABBREVIATIONS,
 SYMBOLS, AND LEGEND

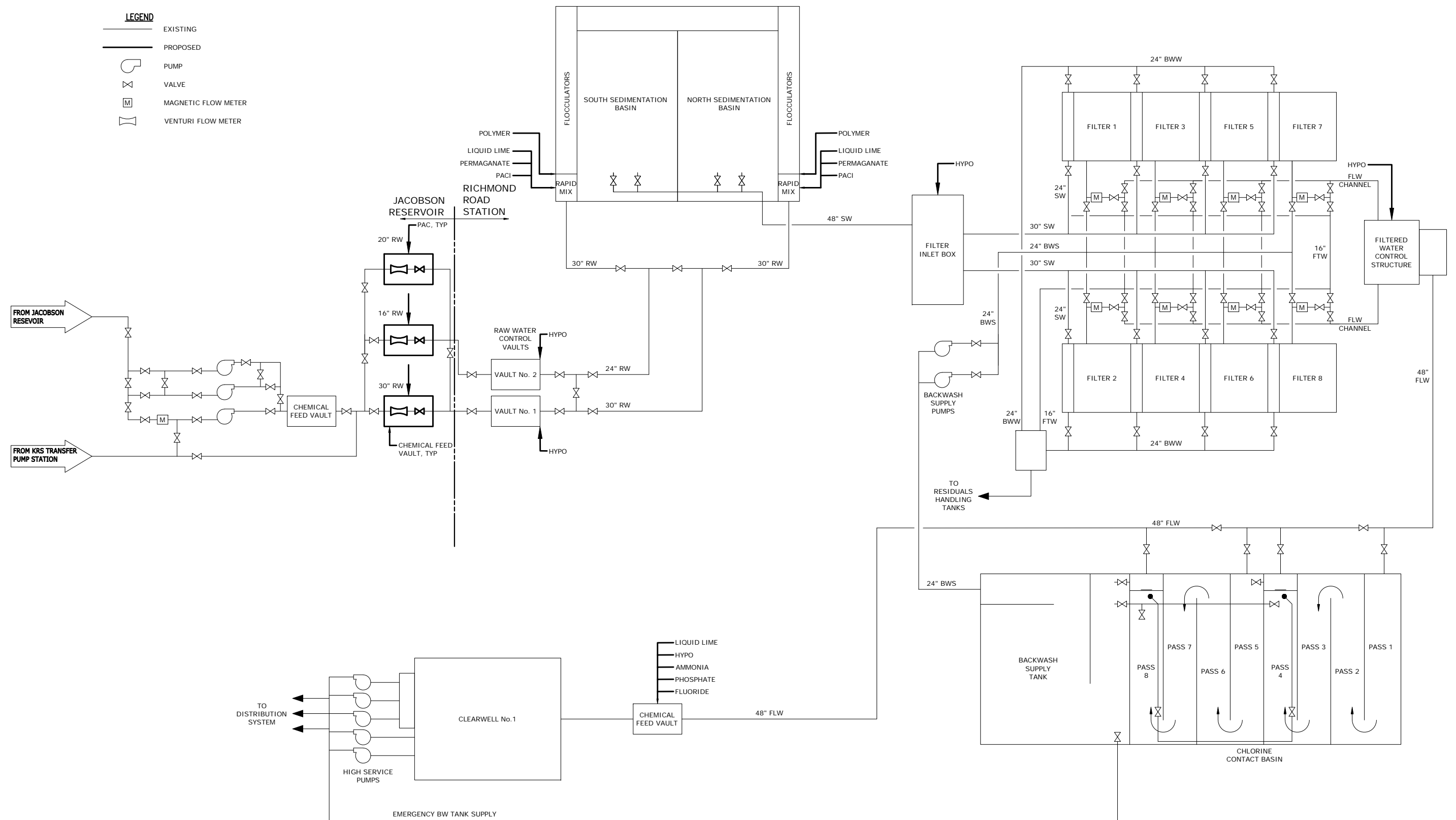
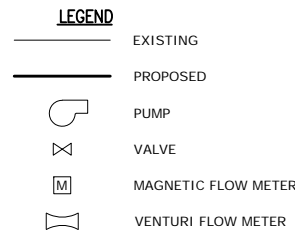
DATE: DECEMBER 2017

HAZEN NO.: 50084-009

CONTRACT NO.: 01

KYAW NO.: 123456-7890

DRAWING NUMBER: G2



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CHECKED BY:	S. GIBSON		
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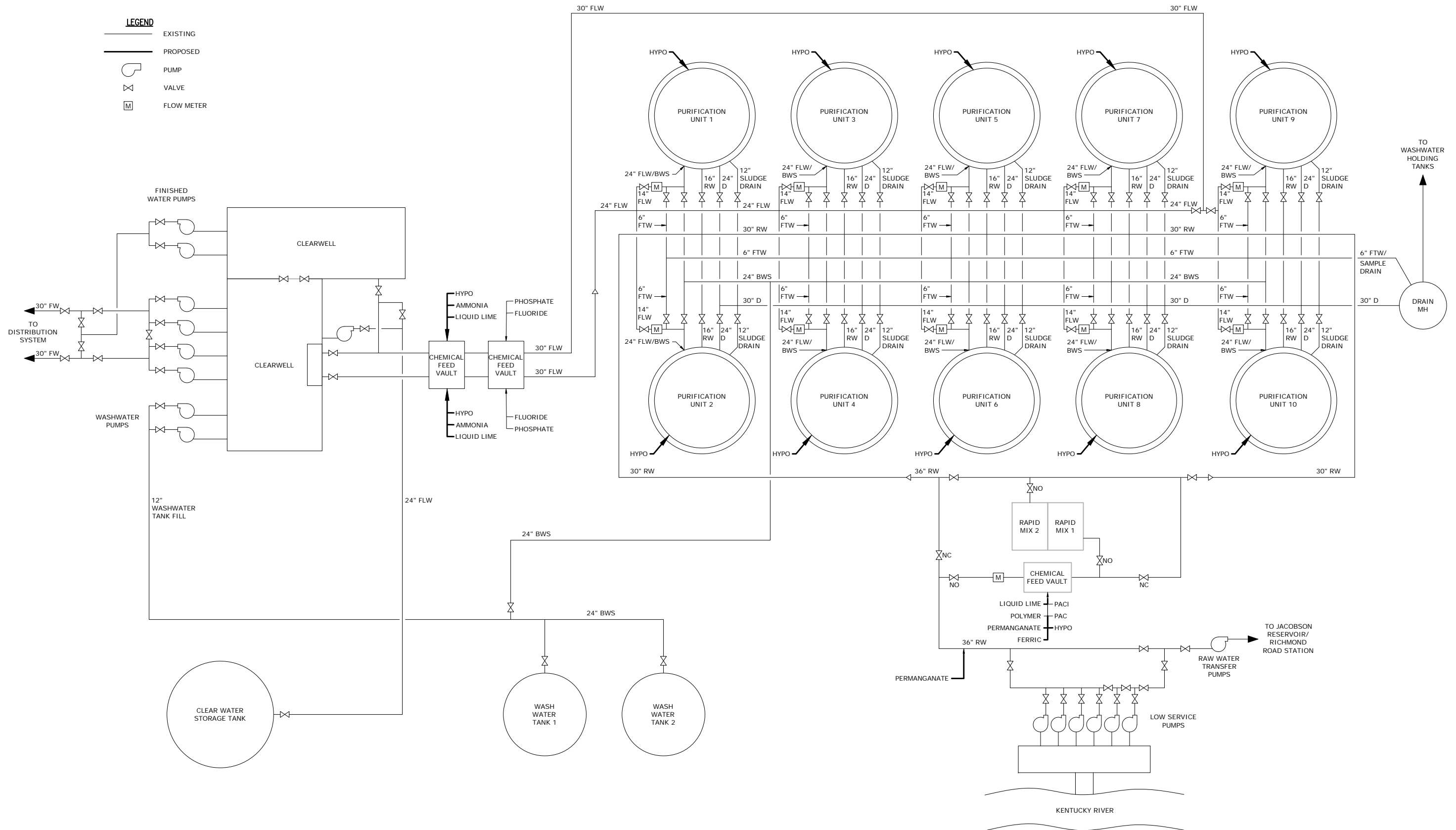
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LEXINGTON, KENTUCKY
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IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

GENERAL
PROCESS FLOW DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	G20

LEGEND

- EXISTING
- PROPOSED
- PUMP
- VALVE
- FLOW METER



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DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
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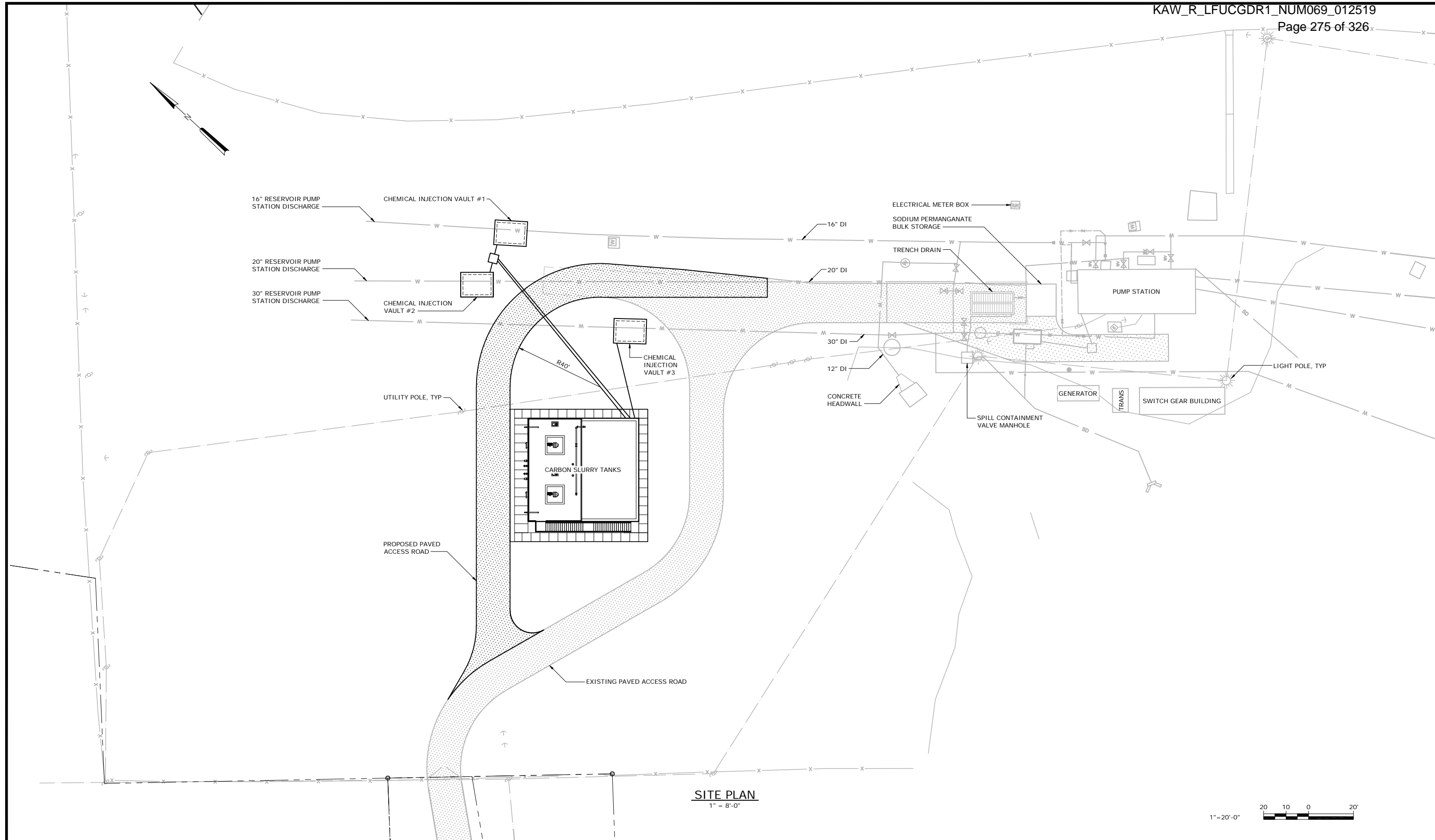
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 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 KENTUCKY RIVER STATION 1

GENERAL
 PROCESS FLOW DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	G30



SITE PLAN
1" = 8'-0"

1" = 20'-0"
20 10 0 20'

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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

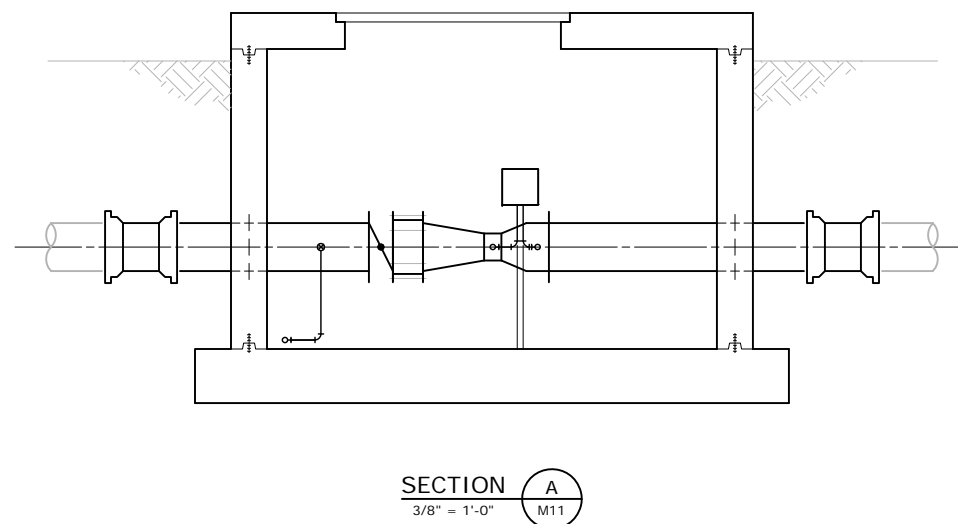
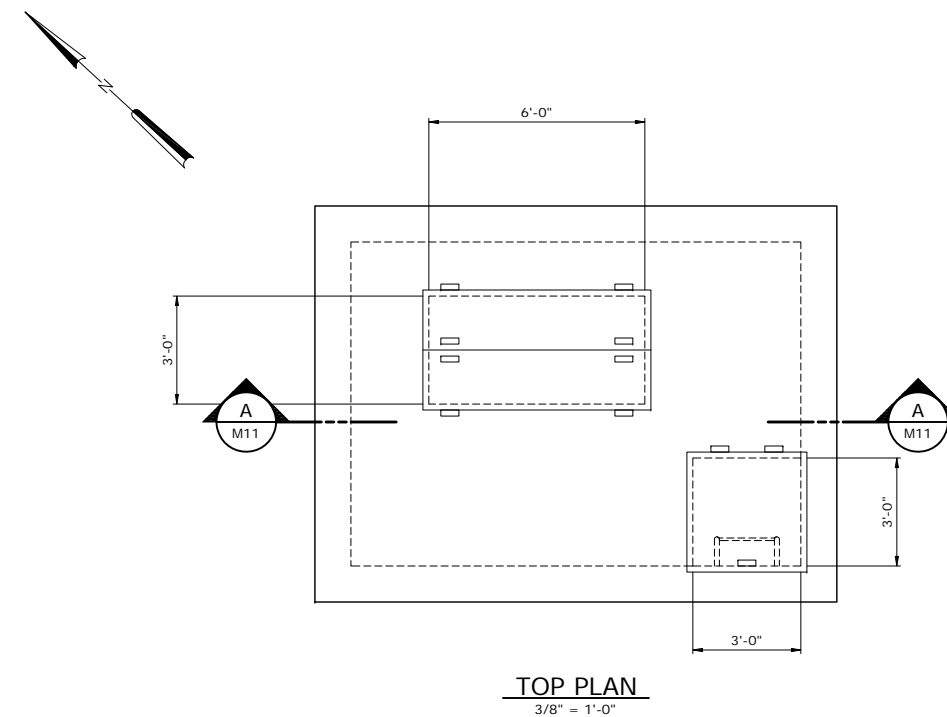
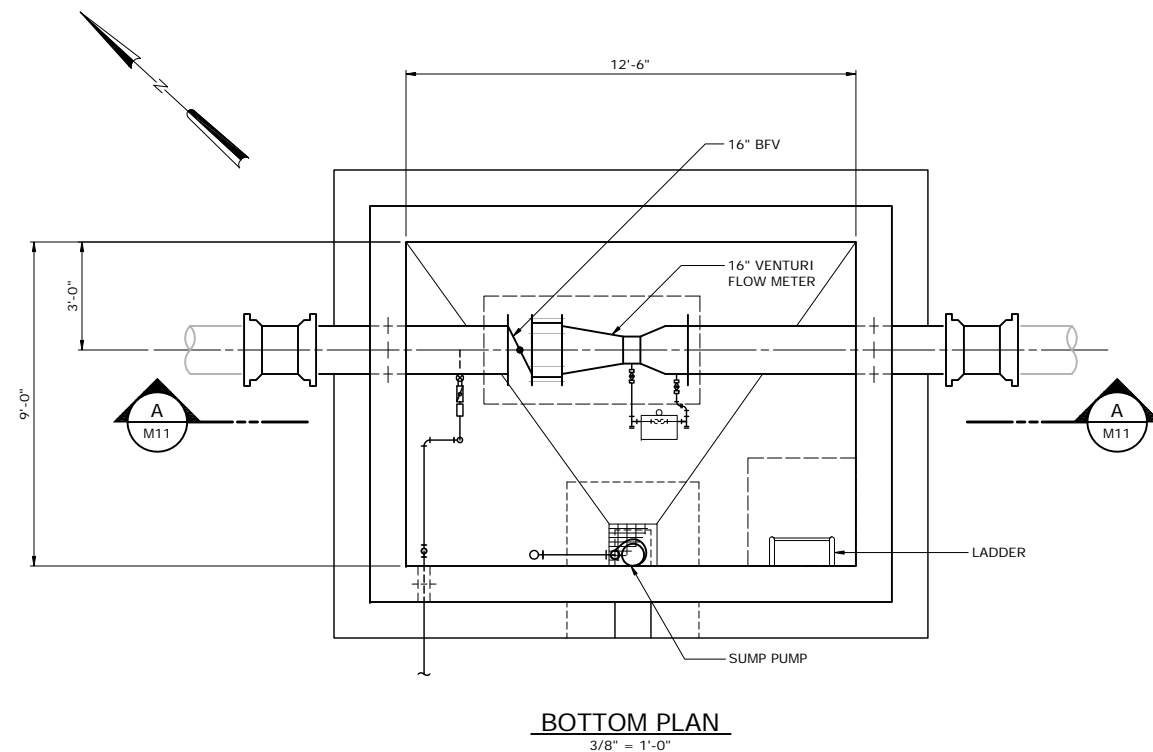
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SITE WORK
MECHANICAL
SITE PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M10



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DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
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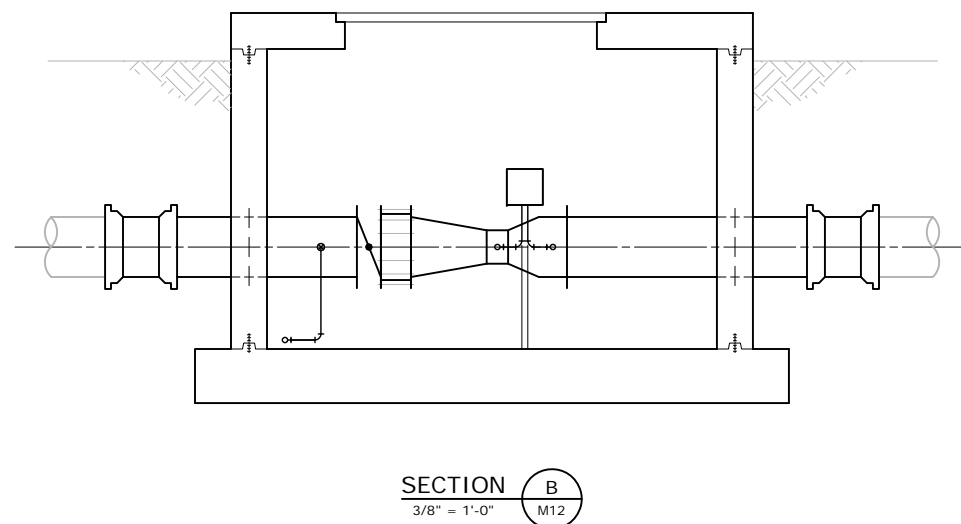
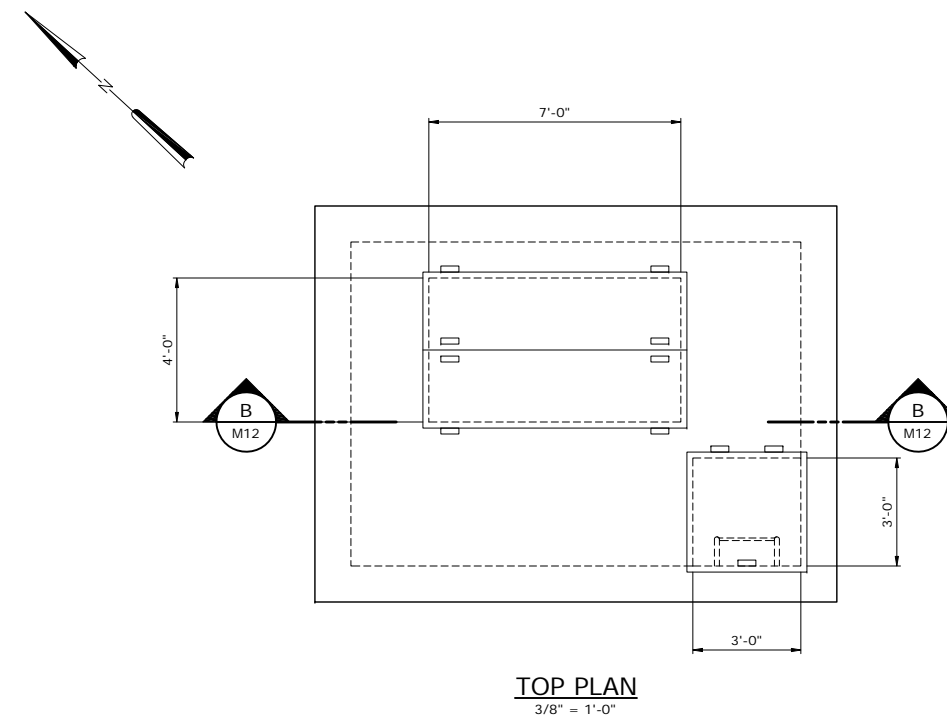
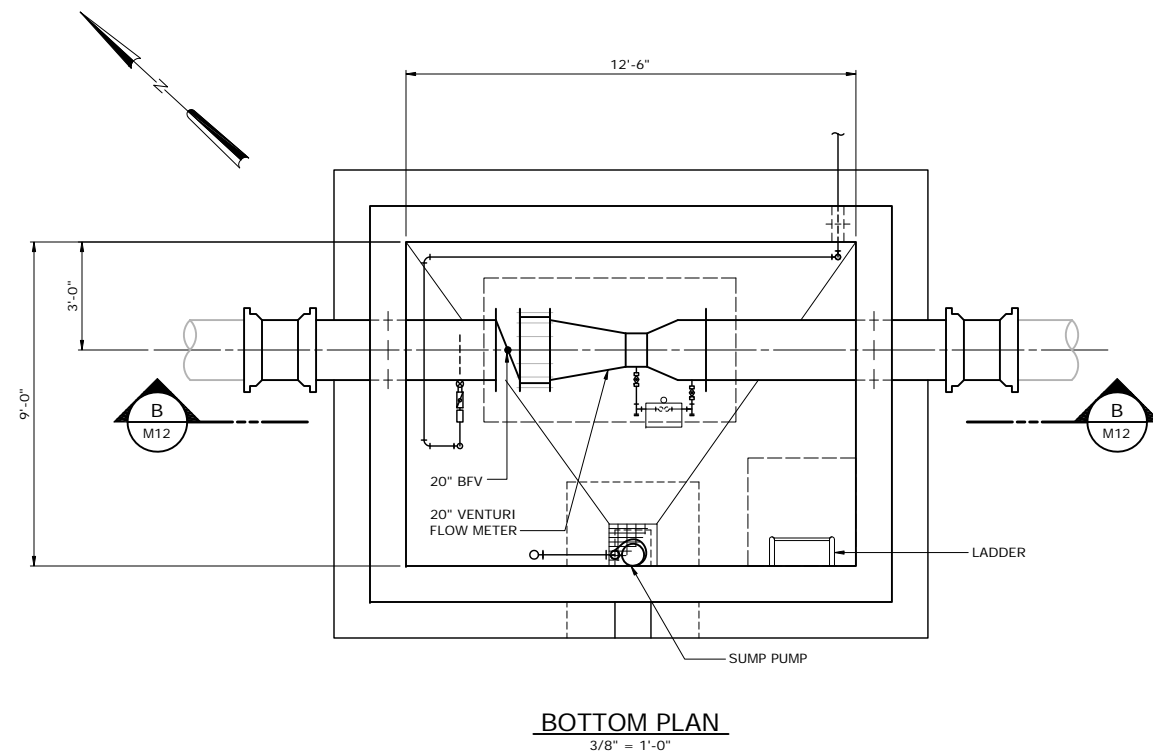
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KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
JACOBSON RESERVOIR PUMP STATION

SITE WORK
MECHANICAL
CHEMICAL INJECTION
VAULT #1

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M11



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DRAWN BY:	K. OVERBY
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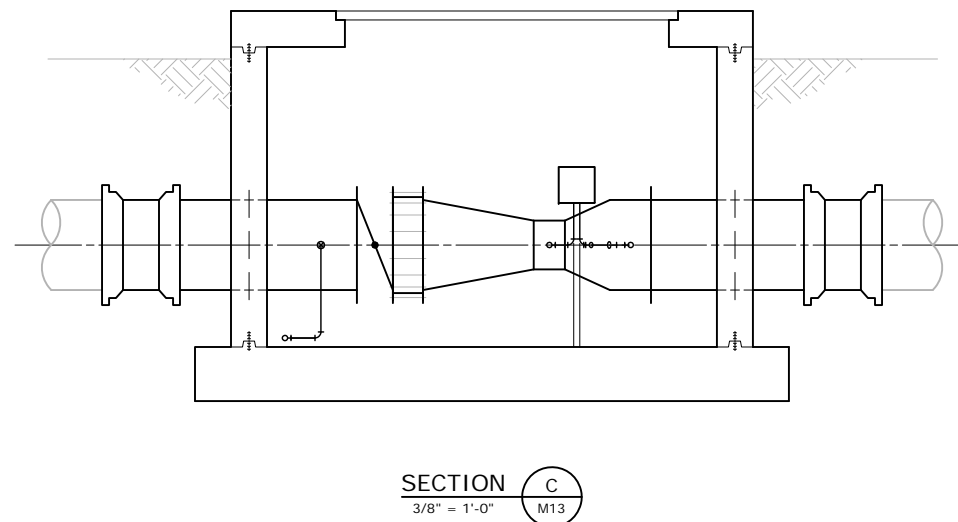
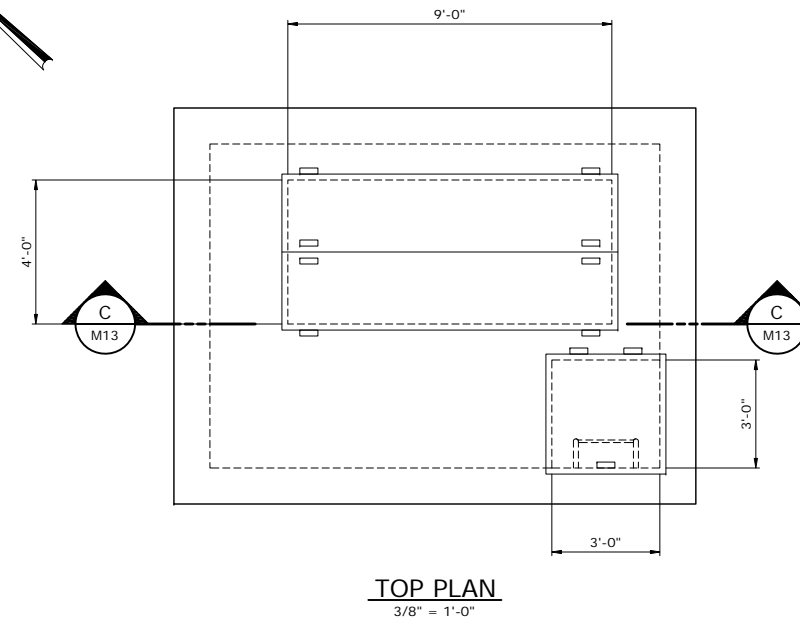
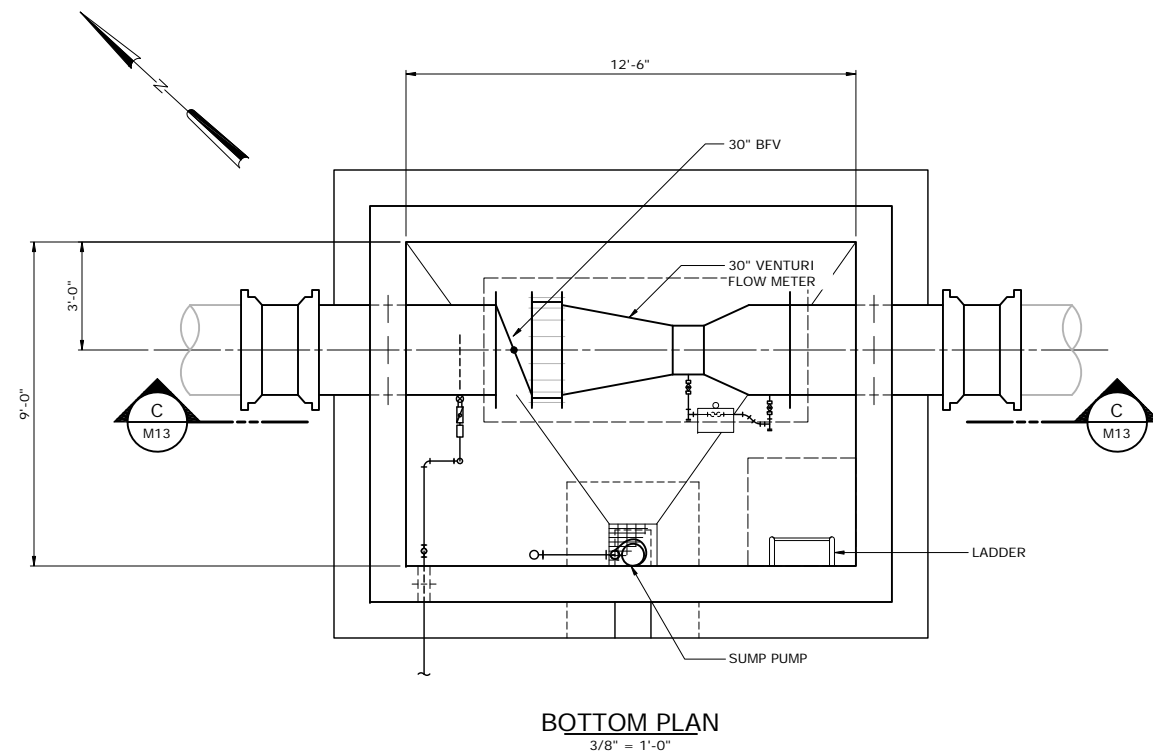
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SITE WORK
MECHANICAL
CHEMICAL INJECTION
VAULT #2

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M12



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DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
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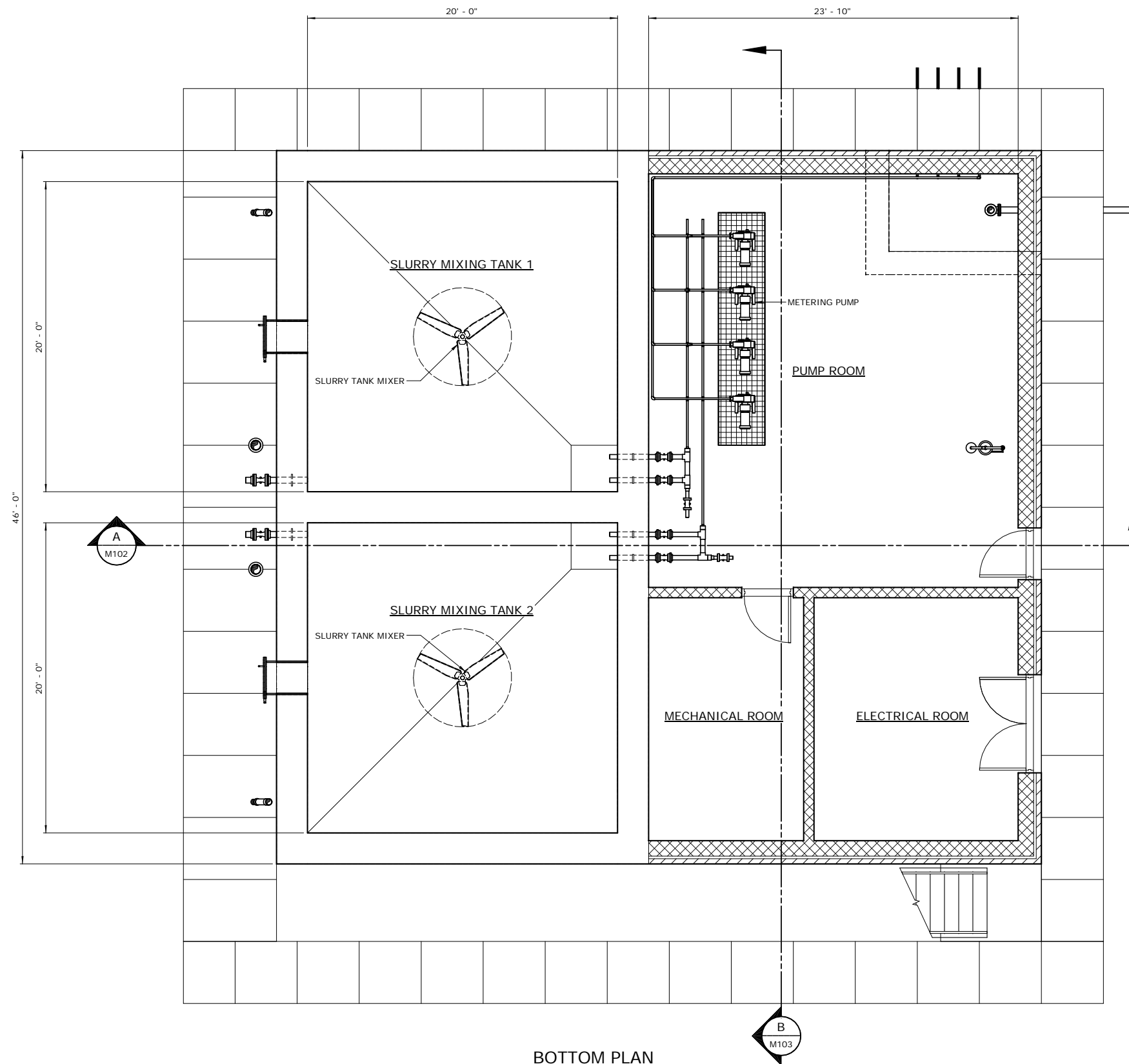
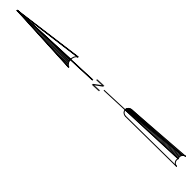
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JACOBSON RESERVOIR PUMP STATION

SITE WORK
MECHANICAL
CHEMICAL INJECTION
VAULT #3

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M13



BOTTOM PLAN
1/4" = 1'-0"

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DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
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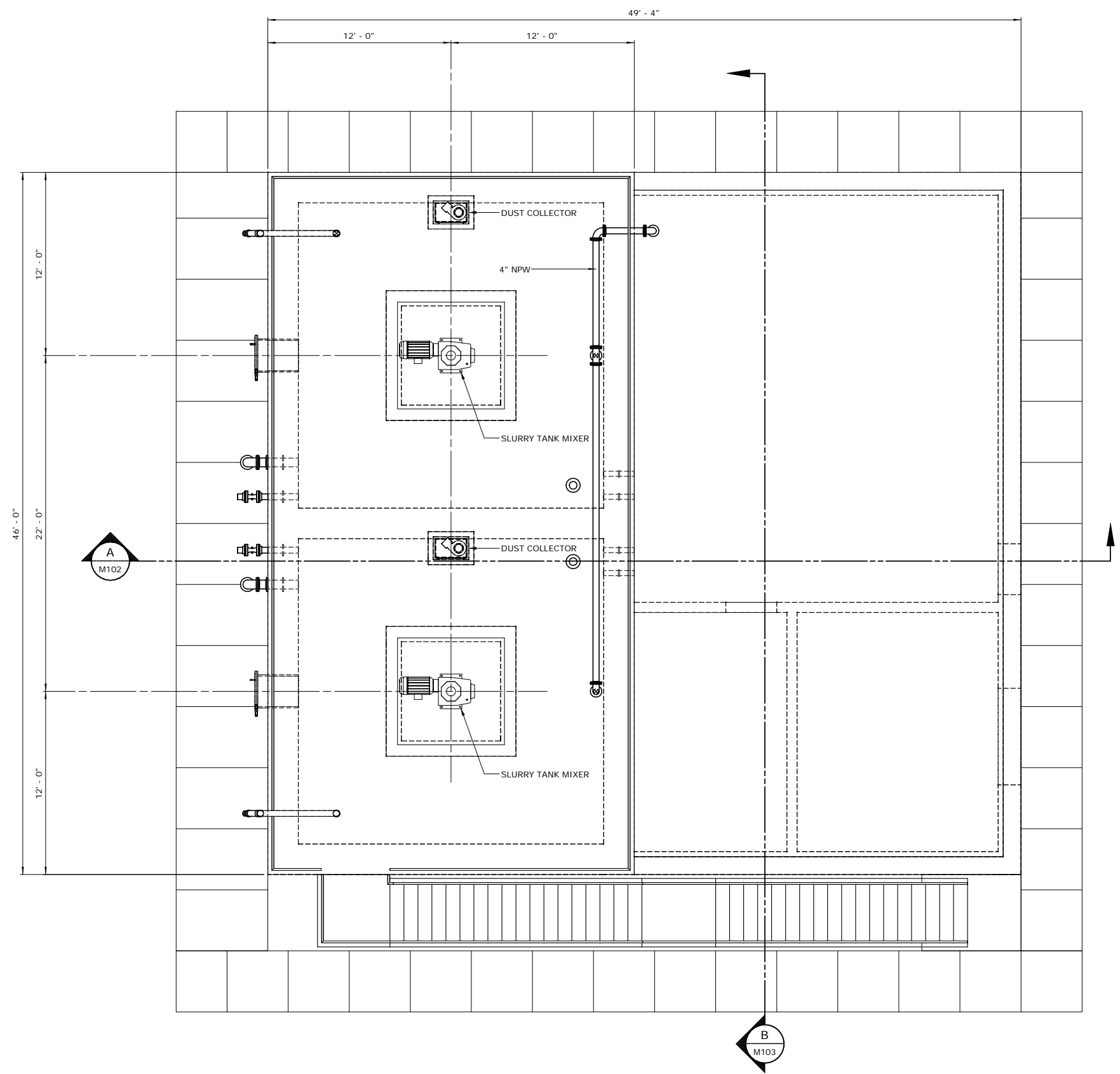
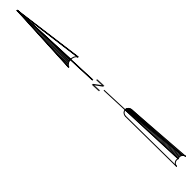
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CARBON SLURRY TANKS
MECHANICAL
BOTTOM PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M100



TOP PLAN
1/4" = 1'-0"

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PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
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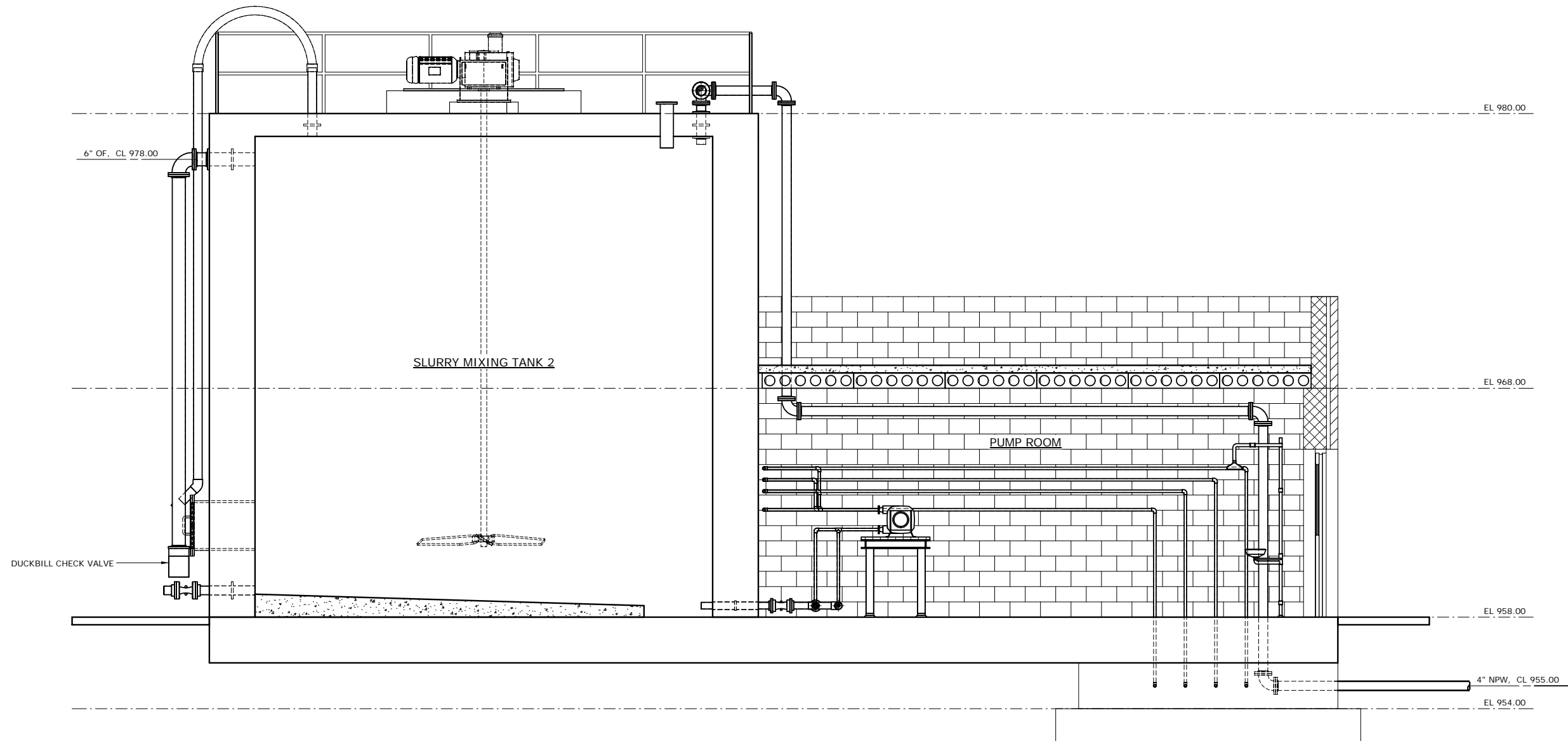
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IMPROVEMENTS PROJECT
JACOBSON RESERVOIR PUMP STATION

CARBON SLURRY TANKS
MECHANICAL
TOP PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M101



SECTION A
3/8" = 1'-0" M100

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PROJECT ENGINEER:	D. LALIBERTE		
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DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
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LICENSE NO.: C-0381

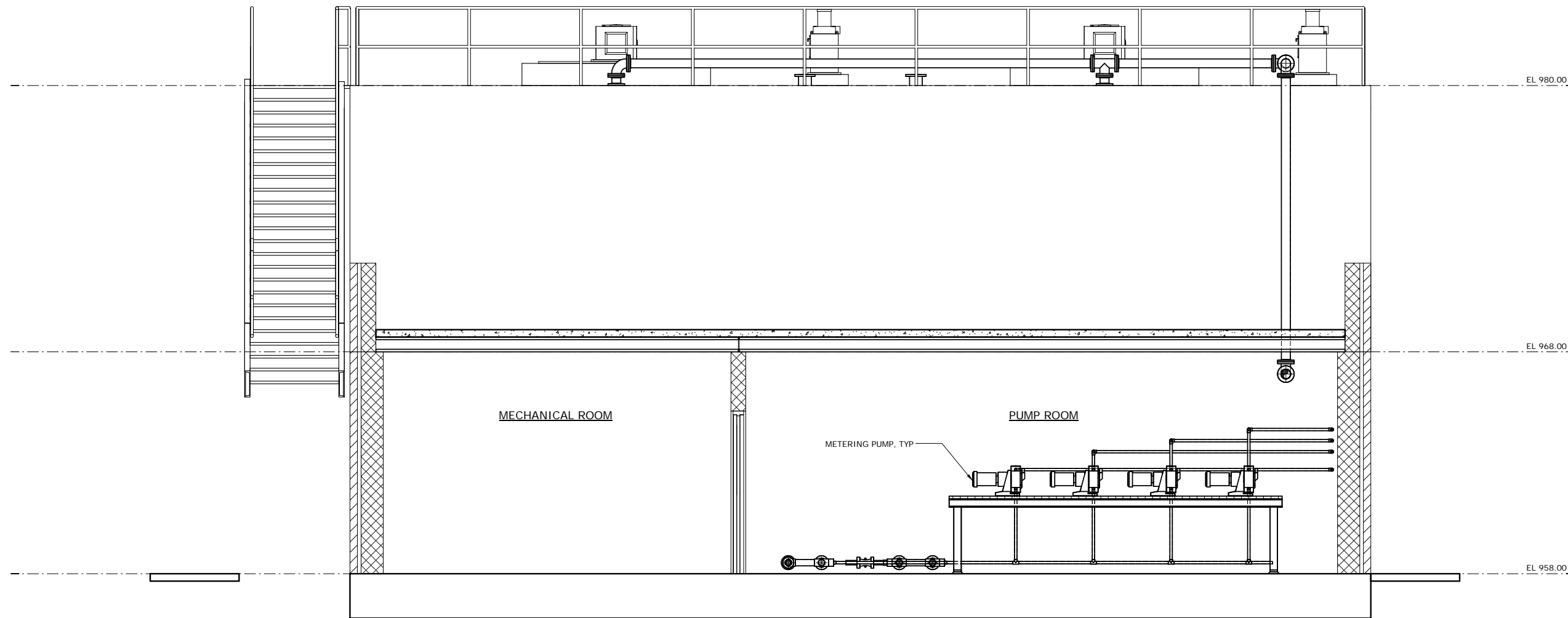
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IMPROVEMENTS PROJECT

JACOBSON RESERVOIR PUMP STATION

CARBON SLURRY TANKS
MECHANICAL
SECTIONS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M102



SECTION B
3/8" = 1'-0" M100

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PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
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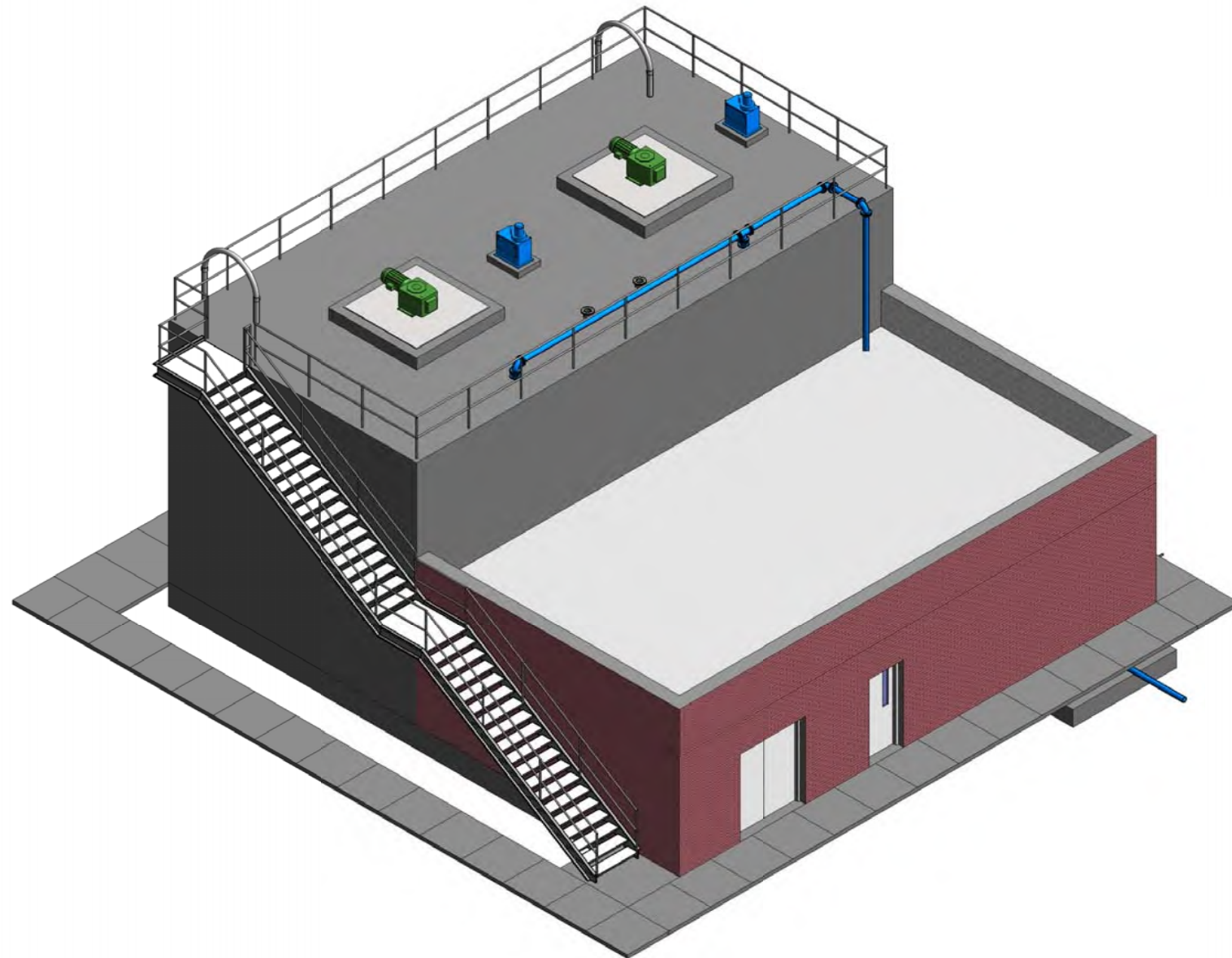
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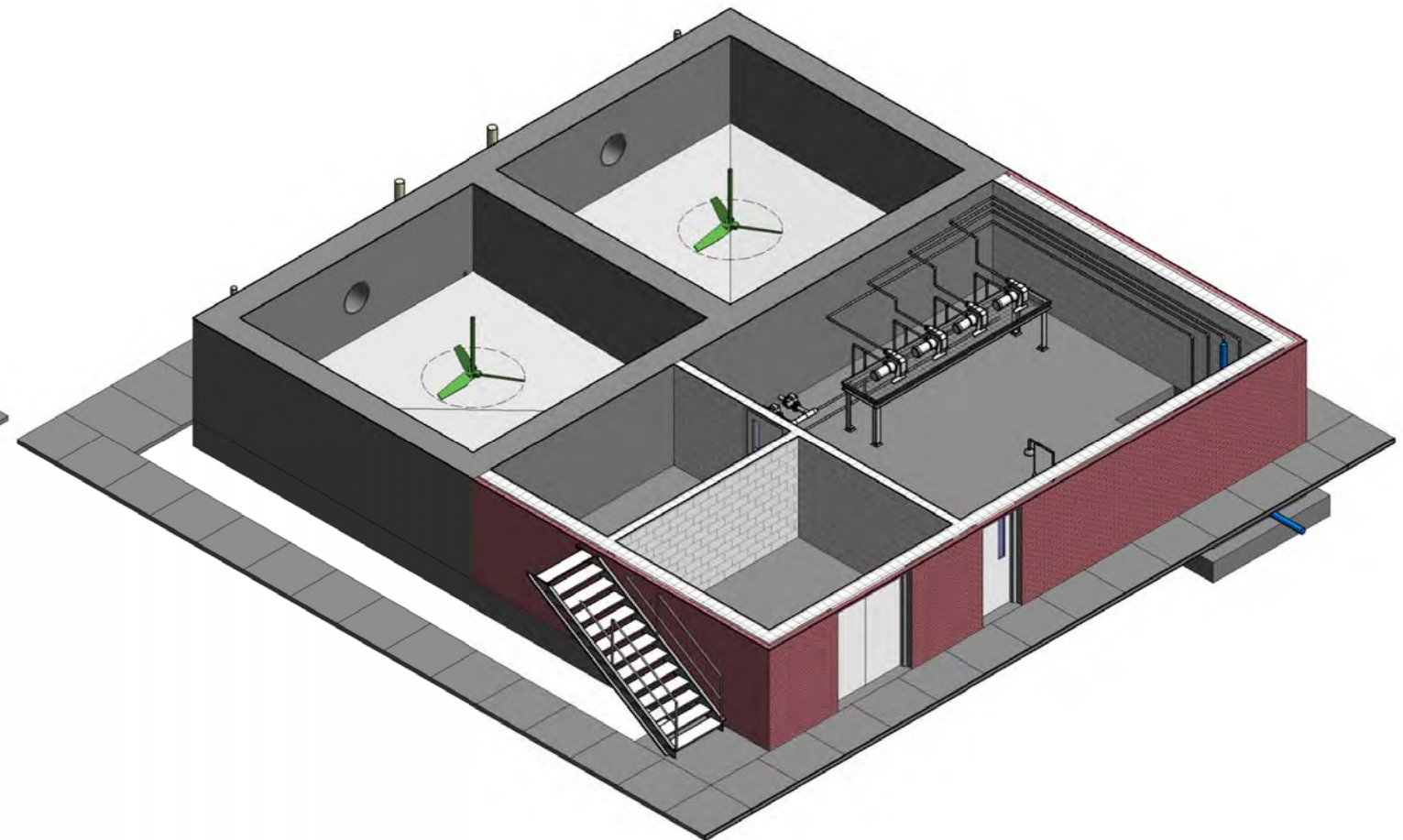
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
JACOBSON RESERVOIR PUMP STATION

CARBON SLURRY TANKS
MECHANICAL
SECTIONS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M103



3D VIEW



3D VIEW AT EL 958.00

C:\WORK\CHAS\50084_009\Design\Drawings\100-CST-MECH\009-100-CST-MECH.rvt 12/22/2017 9:21:25 AM

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	K. OVERBY
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

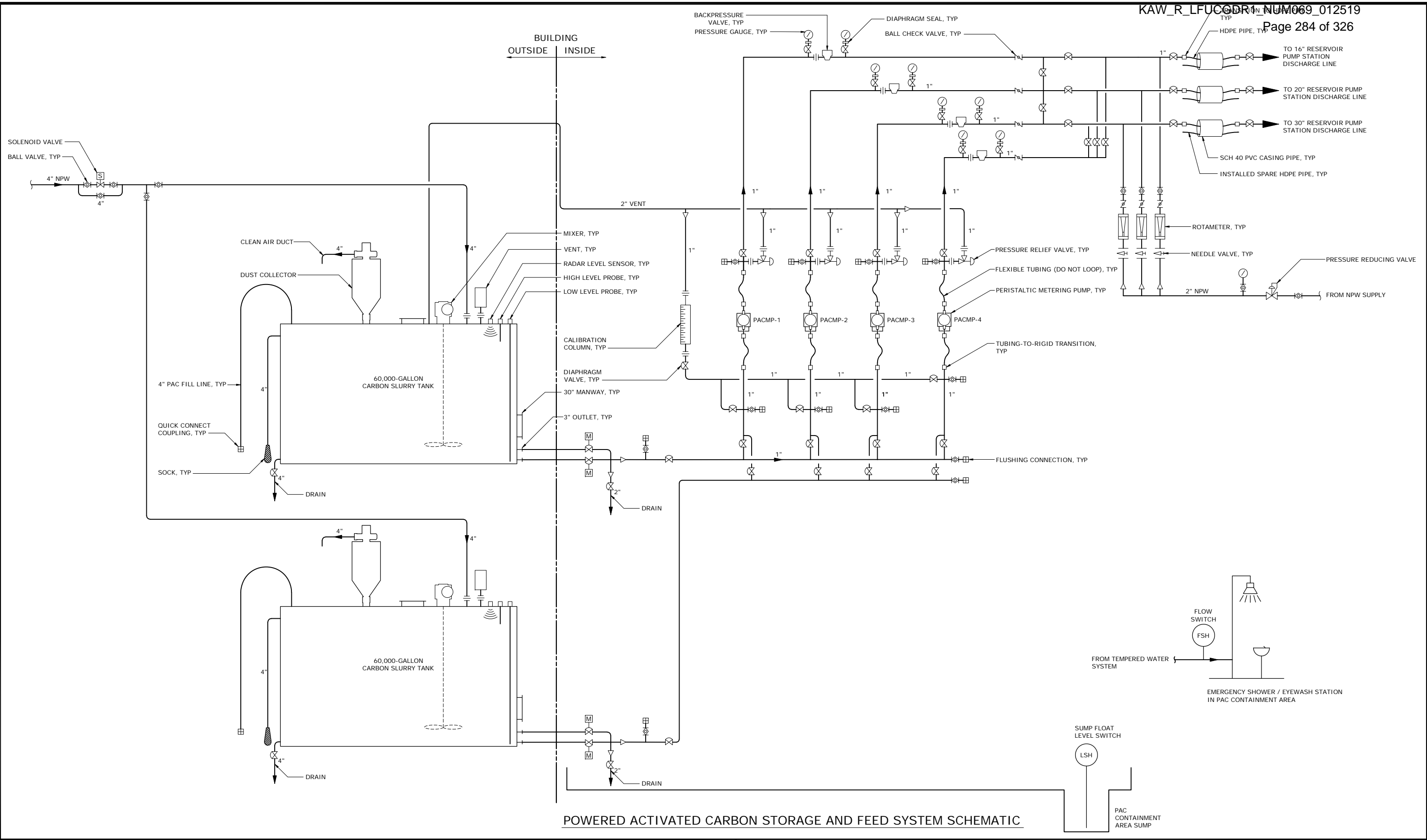
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

JACOBSON RESERVOIR PUMP STATION

CARBON SLURRY TANKS
MECHANICAL
3D VIEWS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M104



POWERED ACTIVATED CARBON STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\0904-0000\09040000\DRAWINGS\MECH\RESL150 Saved by: DCARR Save date: 12/22/17 11:46AM
 PLOT DATE: 12/22/17 4:49 PM BY: KOLBERY

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	D. CARR		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

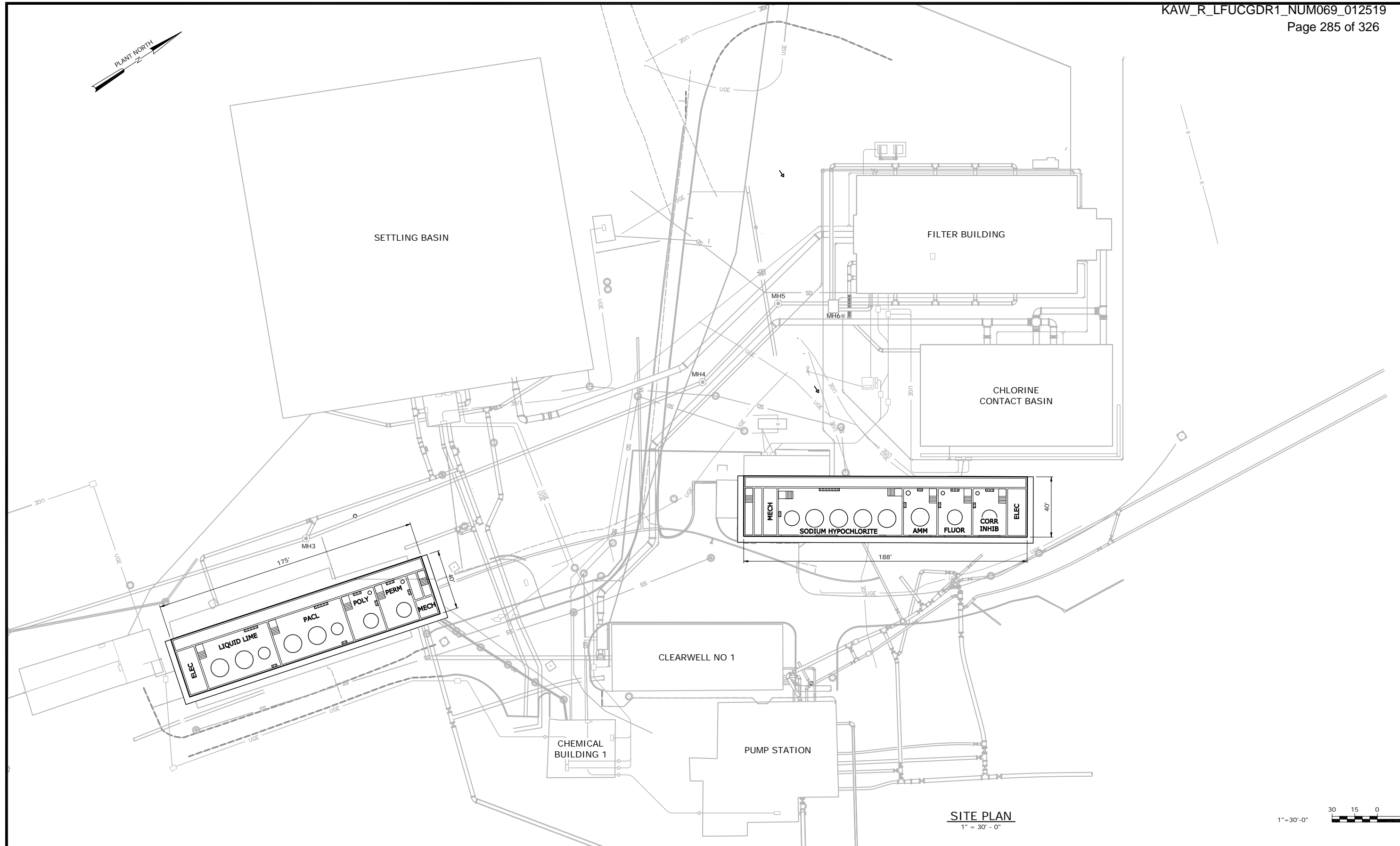
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HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO. : C-0381

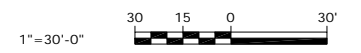
KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 JACOBSON RESERVOIR PUMP STATION

MECHANICAL
 POWDERED ACTIVATED
 CARBON STORAGE AND
 FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M150



SITE PLAN
1" = 30' - 0"



File: O:\0604-0009\06040009\DRAWINGS\MECH\RRS-M20.dwg Saved by: KOVERBY, S. Date: 12/22/2017 10:55 AM PLOT DATE: 12/27/2017 4:49 PM BY: KOVERBY

REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
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CONSTRUCTION

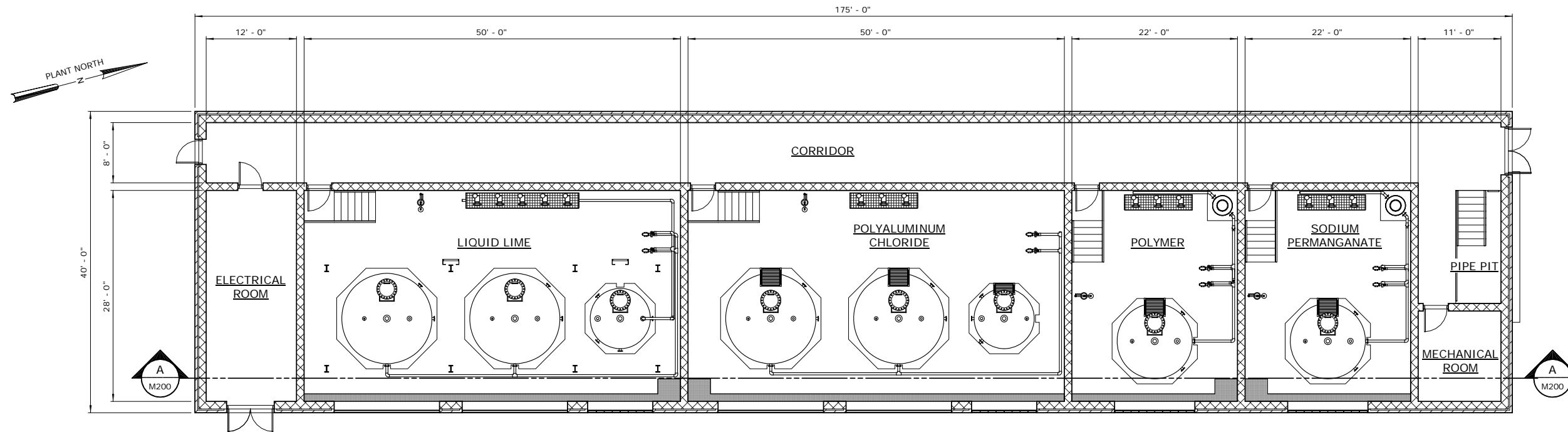


HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

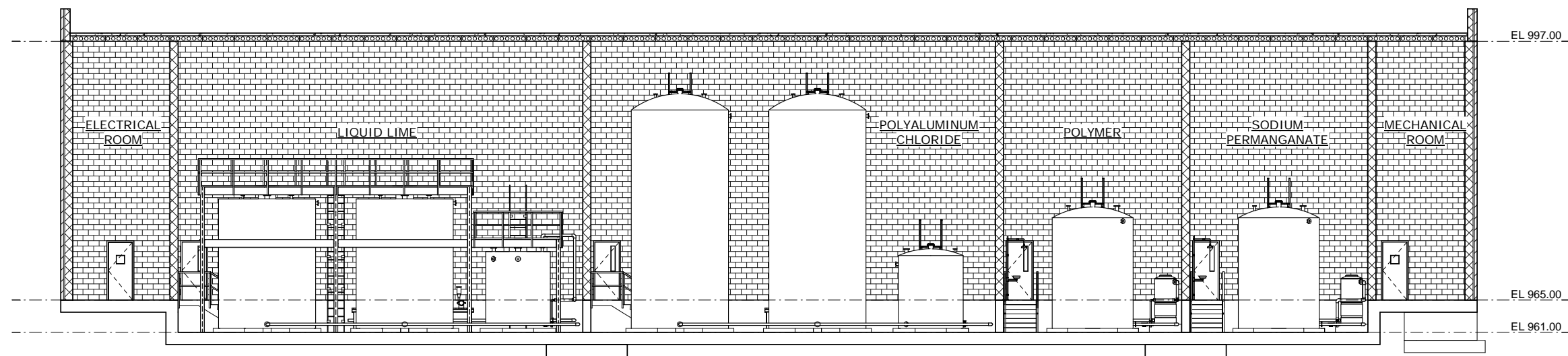
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

SITE WORK
MECHANICAL
SITE PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M20



OVERALL PLAN
1/8" = 1'-0"



SECTION A
1/8" = 1'-0"

O:\50084-009\50084-009\Design\Drawings\200-CB-RRS\50084-009-200-CB1-MECH-14 12/22/2017 11:03:27 AM

PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
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CONSTRUCTION

Hazen

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4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

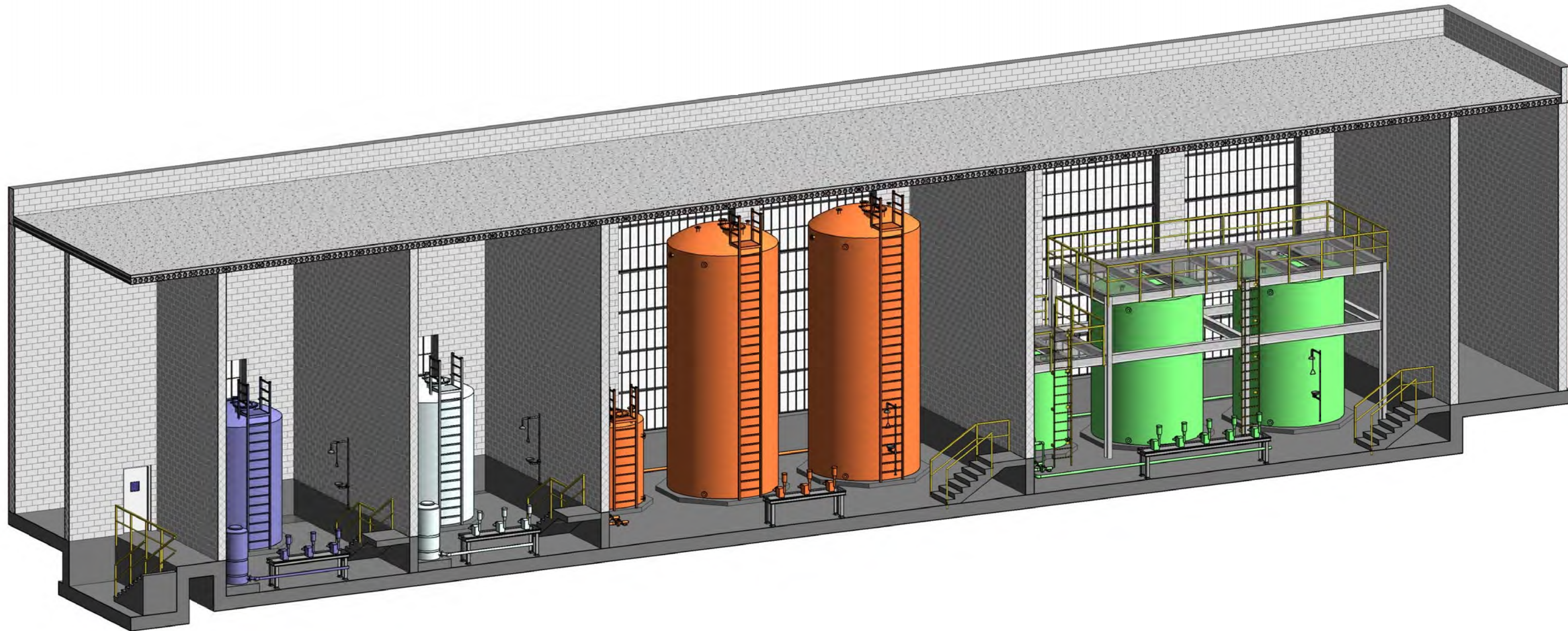
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

RICHMOND ROAD STATION

CHEMICAL BUILDING 1
MECHANICAL
OVERALL PLAN AND SECTION

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M200



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PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	K. OVERBY
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

BASIS OF DESIGN REPORT
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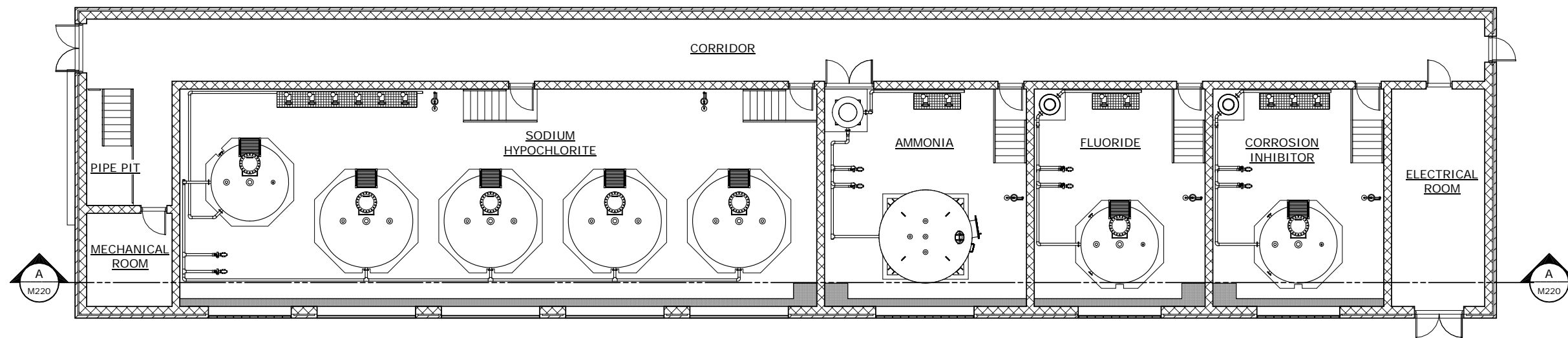
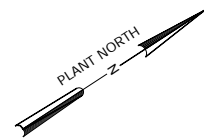
Hazen

HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO.: C-0381

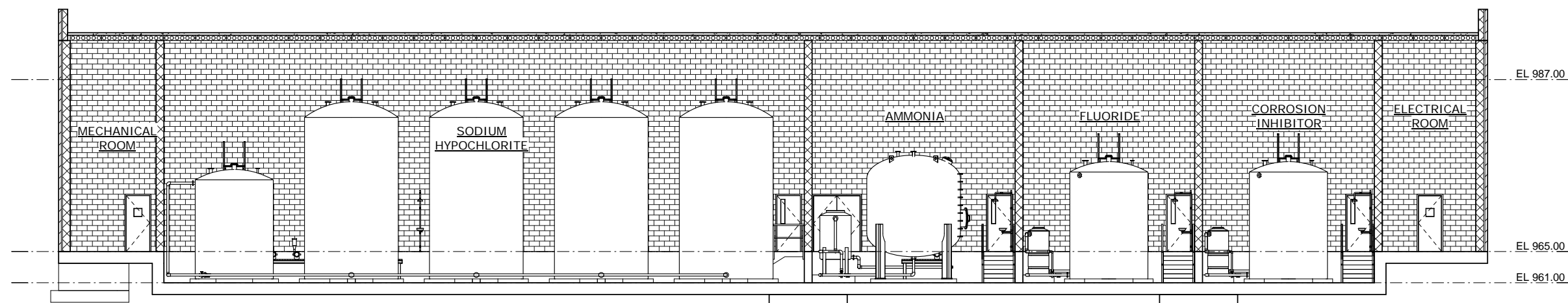
KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

CHEMICAL BUILDING 1
 MECHANICAL
 3D VIEW

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M201



OVERALL PLAN
1/8" = 1'-0"



SECTION A
1/8" = 1'-0"

O:\150904-01\150904-001\Design\Drawings\200-CB-RRS\008-4-009-200-CB2-MECH-14 12/22/2017 11:04:31 AM

PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

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CONSTRUCTION

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4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

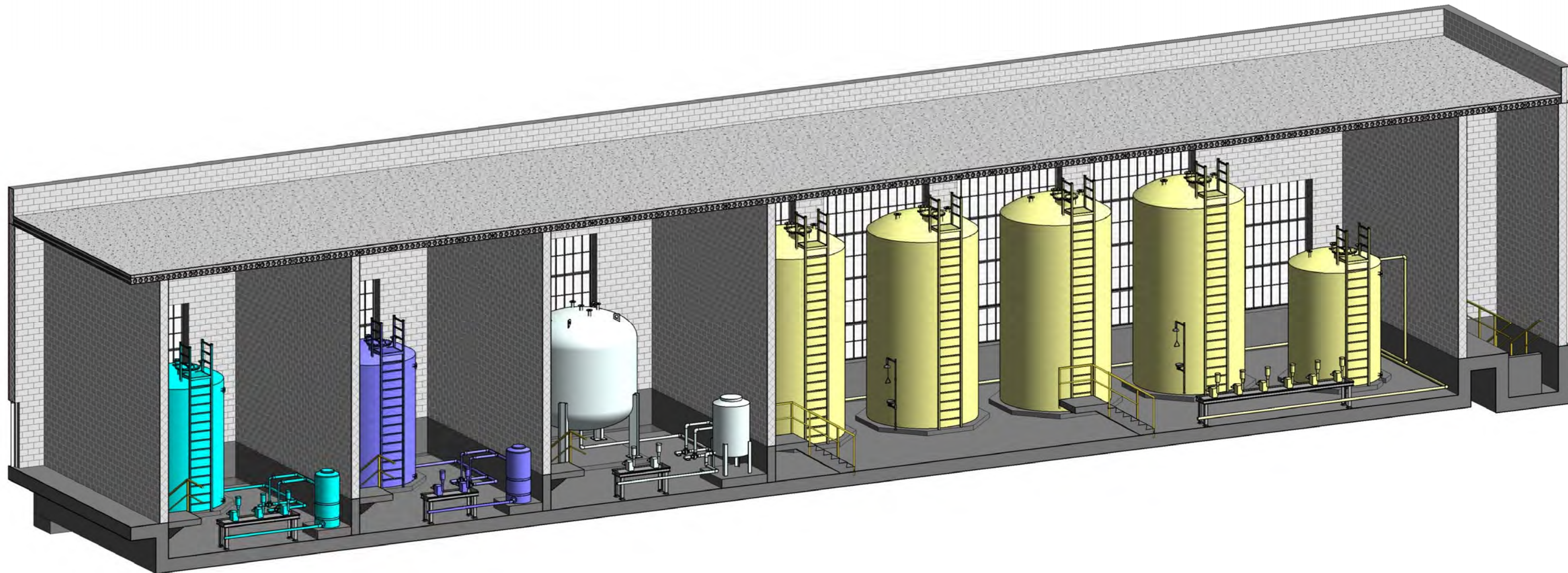
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

RICHMOND ROAD STATION

CHEMICAL BUILDING 2
MECHANICAL
OVERALL PLAN AND SECTION

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M220



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PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	K. OVERBY		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
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 CONSTRUCTION

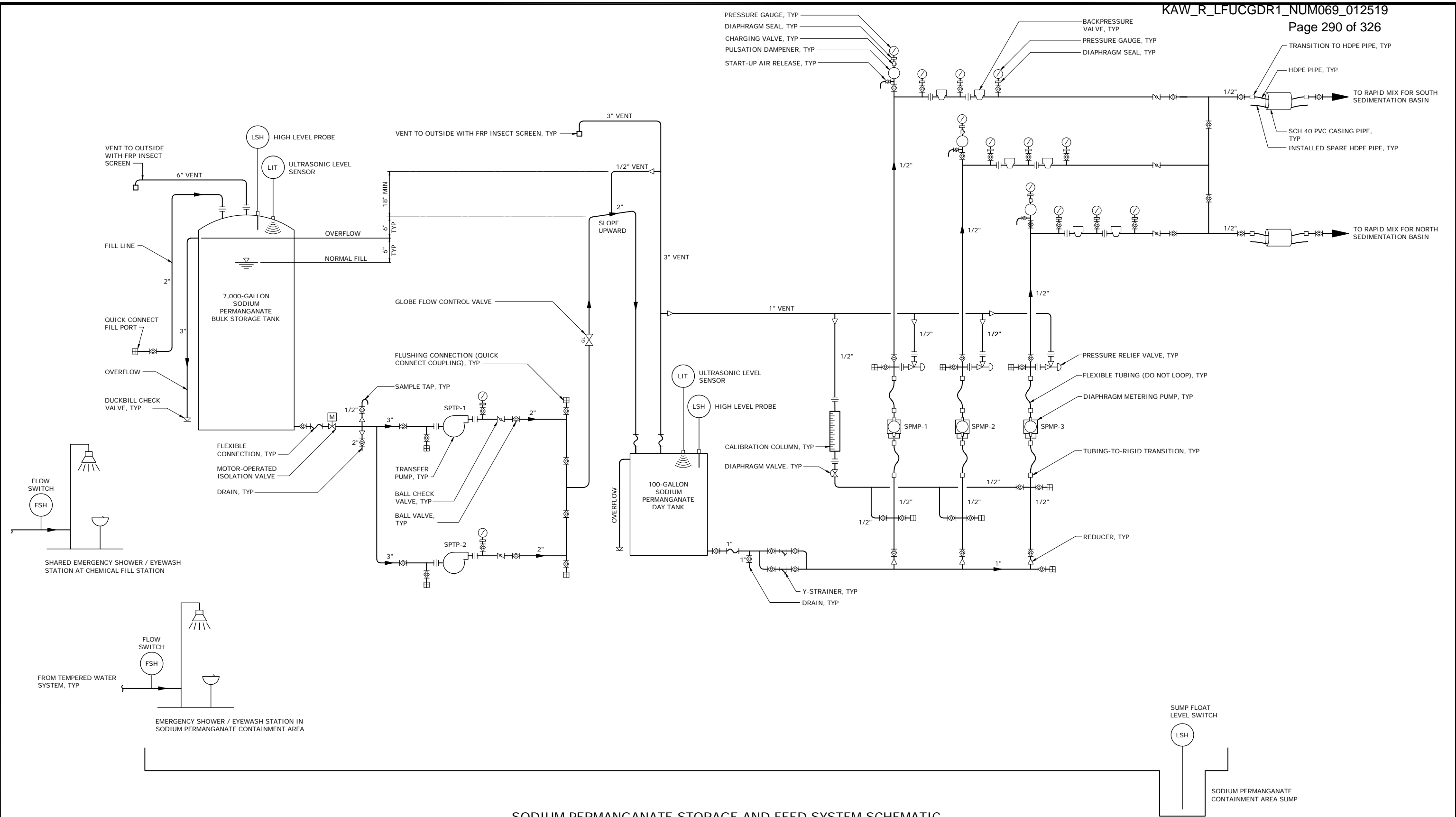
Hazen

HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

CHEMICAL BUILDING 2
 MECHANICAL
 3D VIEW

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M221



SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC

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PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	D. CARR		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

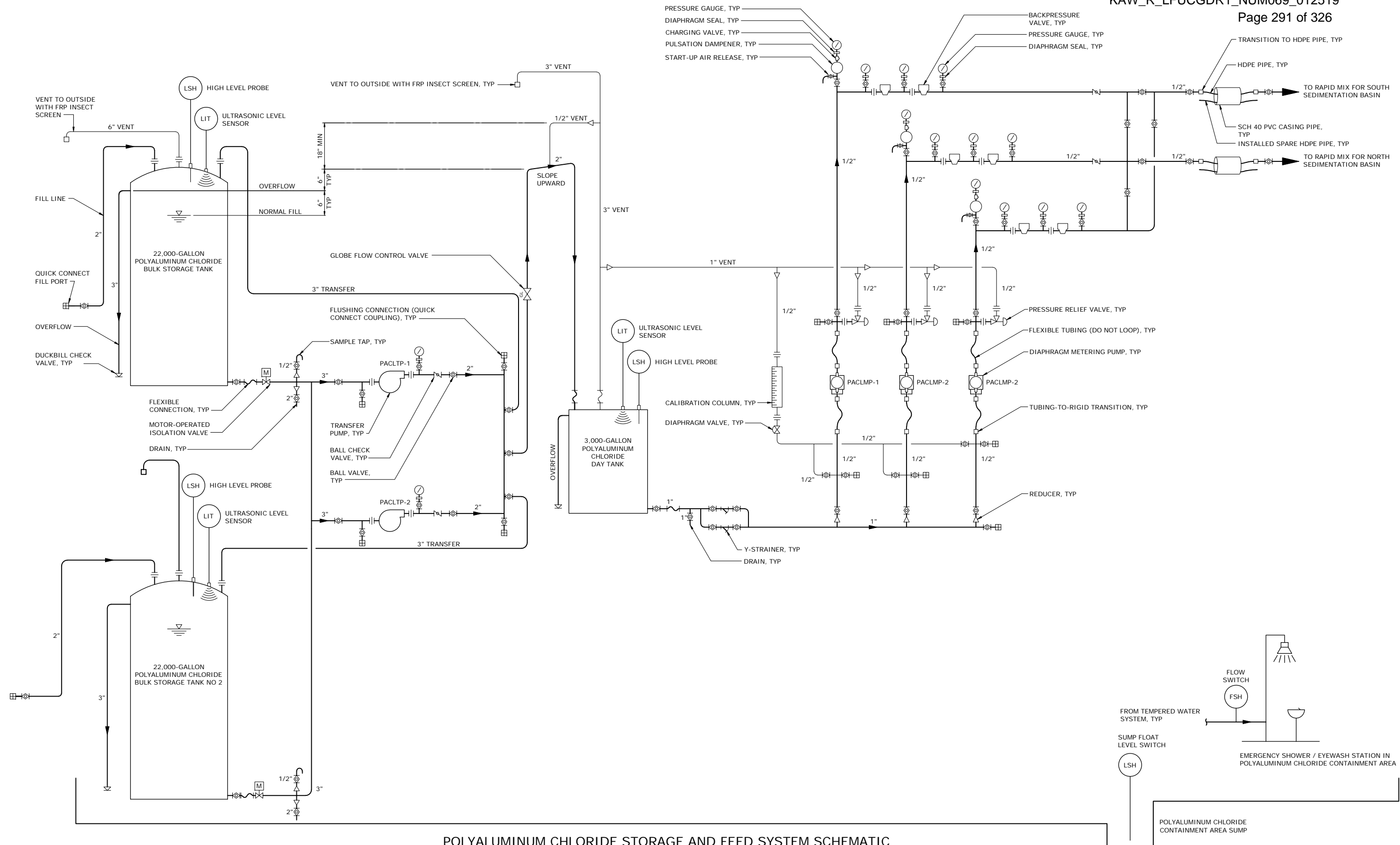
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RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
SODIUM PERMANGANATE STORAGE
AND FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M250



POLYALUMINUM CHLORIDE STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\004-CON\004-000\DESIGN\DRAWINGS\MECH\RRS-1\2171146.dwg
 PLOT DATE: 12/27/2017 4:49 PM BY: MCVERRY

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	D. CARR		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

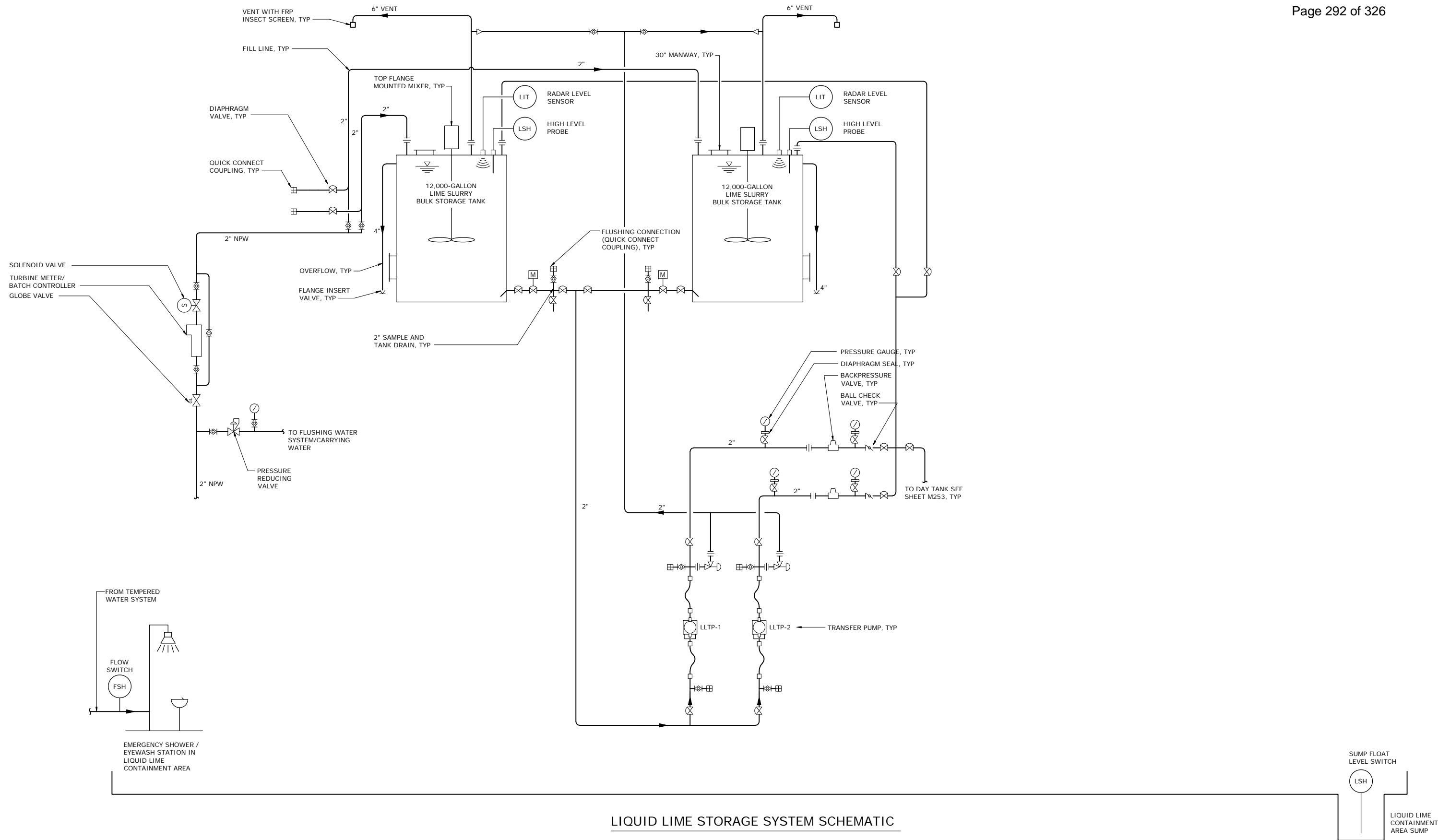
BASIS OF DESIGN REPORT
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CONSTRUCTION

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RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
POLYALUMINUM CHLORIDE STORAGE
AND FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M251



LIQUID LIME STORAGE SYSTEM SCHEMATIC

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 PLOT DATE: 12/27/2017 4:49 PM BY: K0188BY

REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

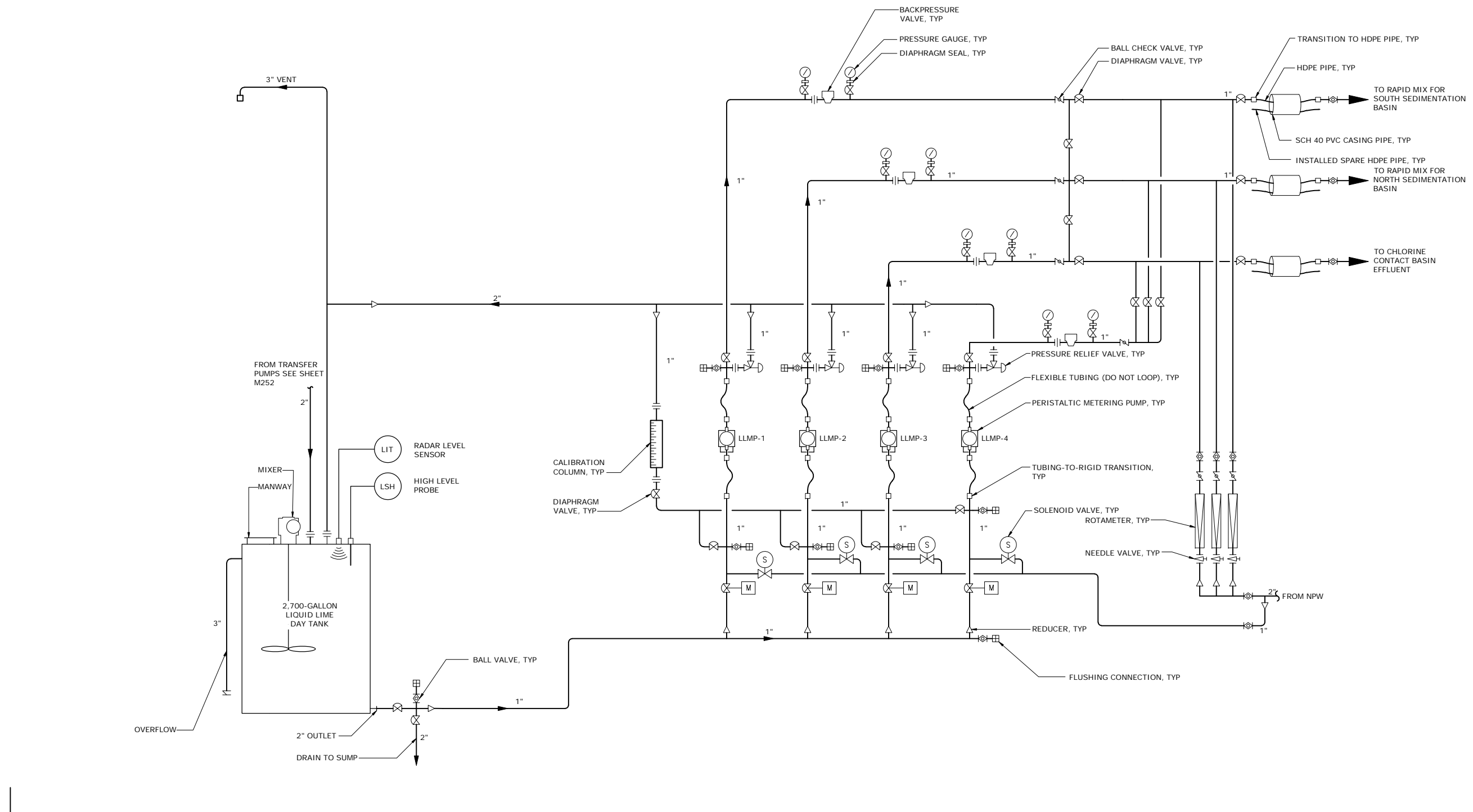
BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

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 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

MECHANICAL
 LIQUID LIME STORAGE
 SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M252



LIQUID LIME FEED SYSTEM SCHEMATIC

File: O:\9084-000\9084-000\DRAWINGS\MECH\RRS-1\2519.dwg, 12/27/2017 11:47 AM
 PLOT DATE: 12/27/2017 4:49 PM BY: KOVE8BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

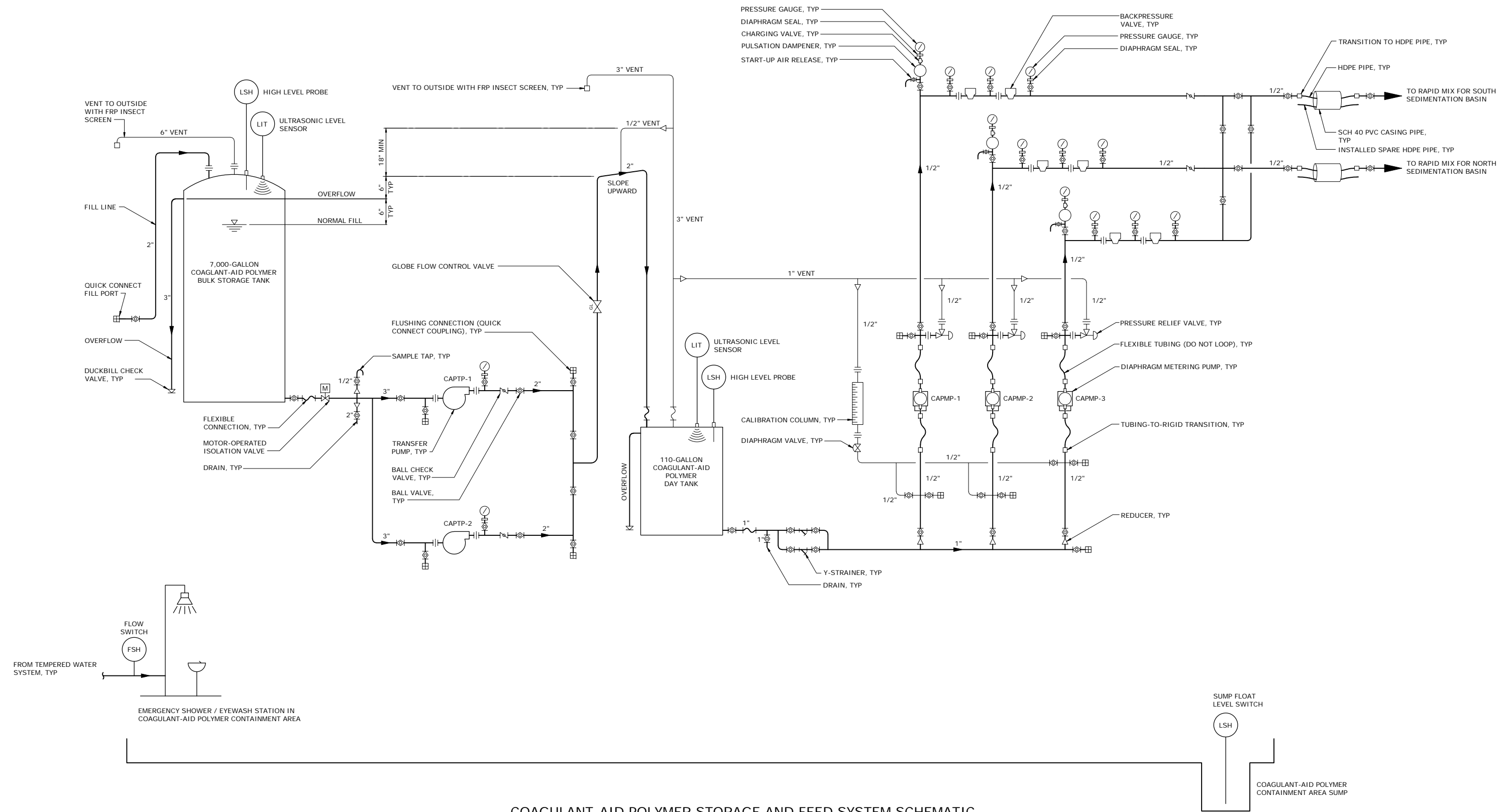
BASIS OF DESIGN REPORT
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 CONSTRUCTION

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 HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

MECHANICAL
 LIQUID LIME FEED SYSTEM
 SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M253



COAGULANT-AID POLYMER STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\0604-COAGULANT-AID POLYMER STORAGE AND FEED SYSTEM SCHEMATIC.dwg, 12/26/2017 9:15 AM
 PLOT DATE: 12/27/2017 4:49 PM BY: KOVEBY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
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	DATE
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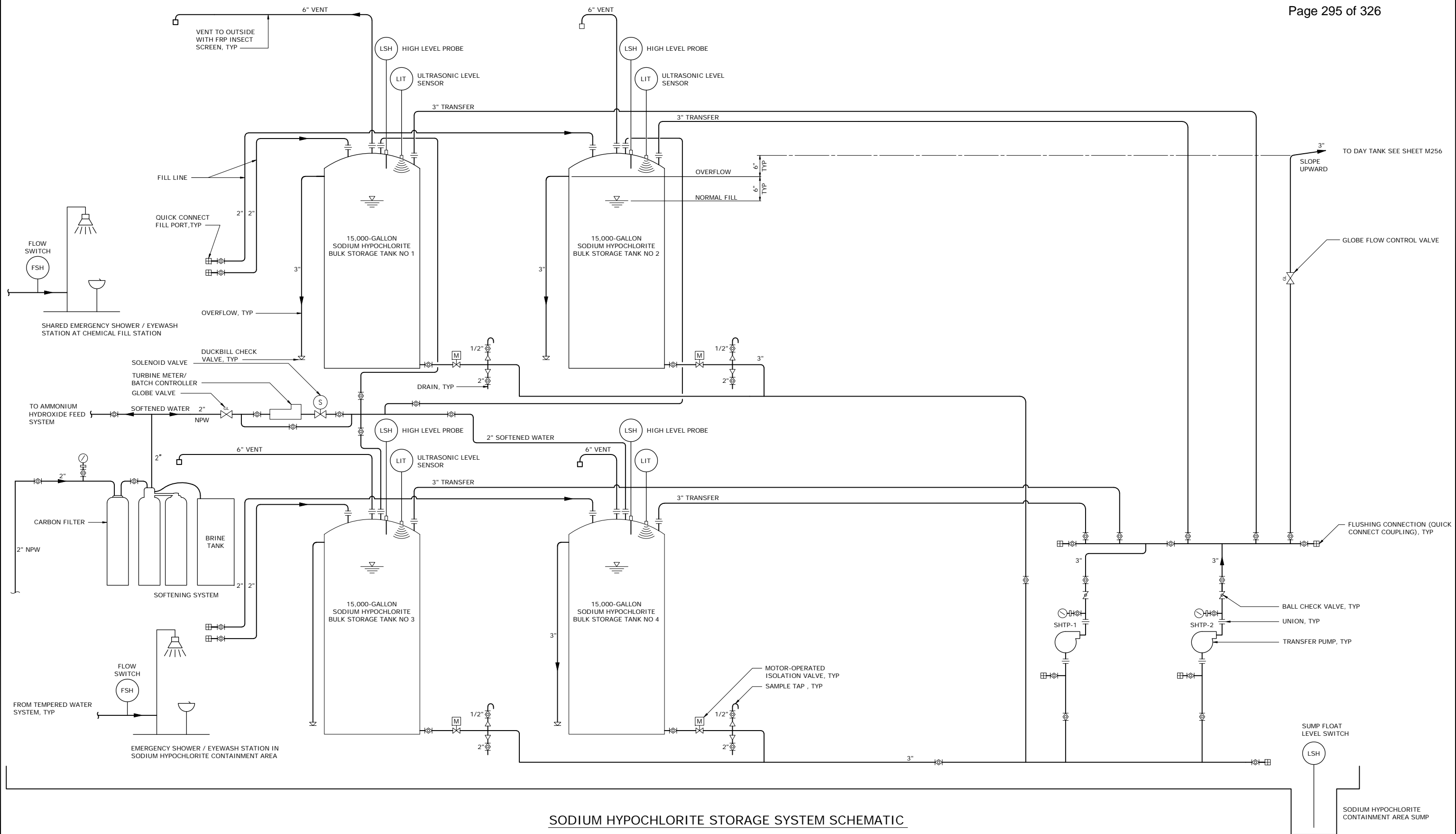
BASIS OF DESIGN REPORT
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CONSTRUCTION

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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
COAGULANT-AID POLYMER STORAGE
AND FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M254



SODIUM HYPOCHLORITE STORAGE SYSTEM SCHEMATIC

File: O:\0604\06040000\DRAWINGS\MCH\RRS-M255_Schem.dwg, 12/26/2017 9:18 AM
 PLOT DATE: 12/27/2017 4:50 PM BY: MCVB/RY

REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

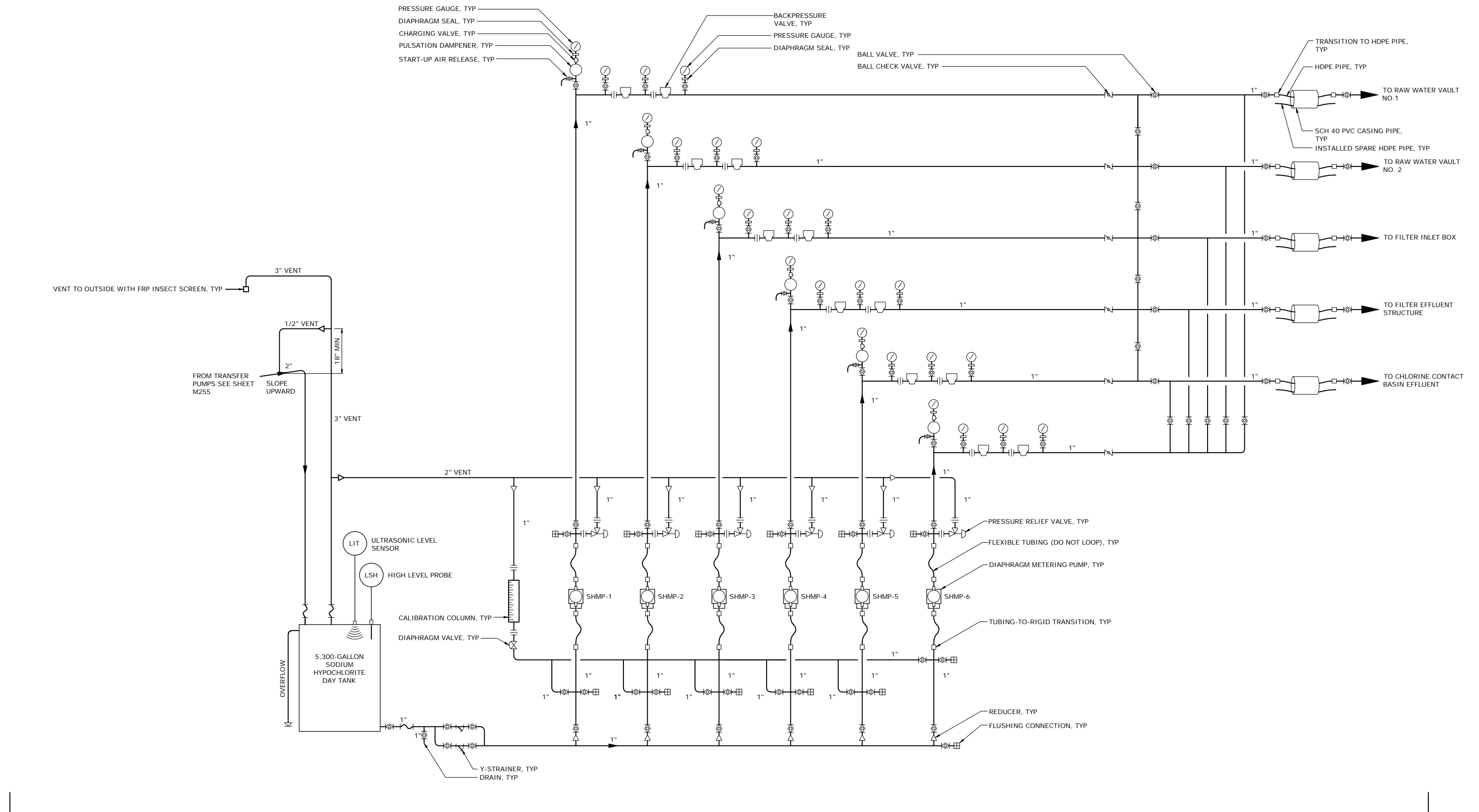
BASIS OF DESIGN REPORT
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KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
SODIUM HYPOCHLORITE STORAGE
SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M255



SODIUM HYPOCHLORITE FEED SYSTEM SCHEMATIC

File: O:\0604-0000\06040000\DRAWINGS\MECH\RRS-M256_Schematics\DCARR_Schematic_12272017_1155.dwg
 PLOT DATE: 12/27/2017 4:50 PM BY: MCVERRY

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	D. CARR		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

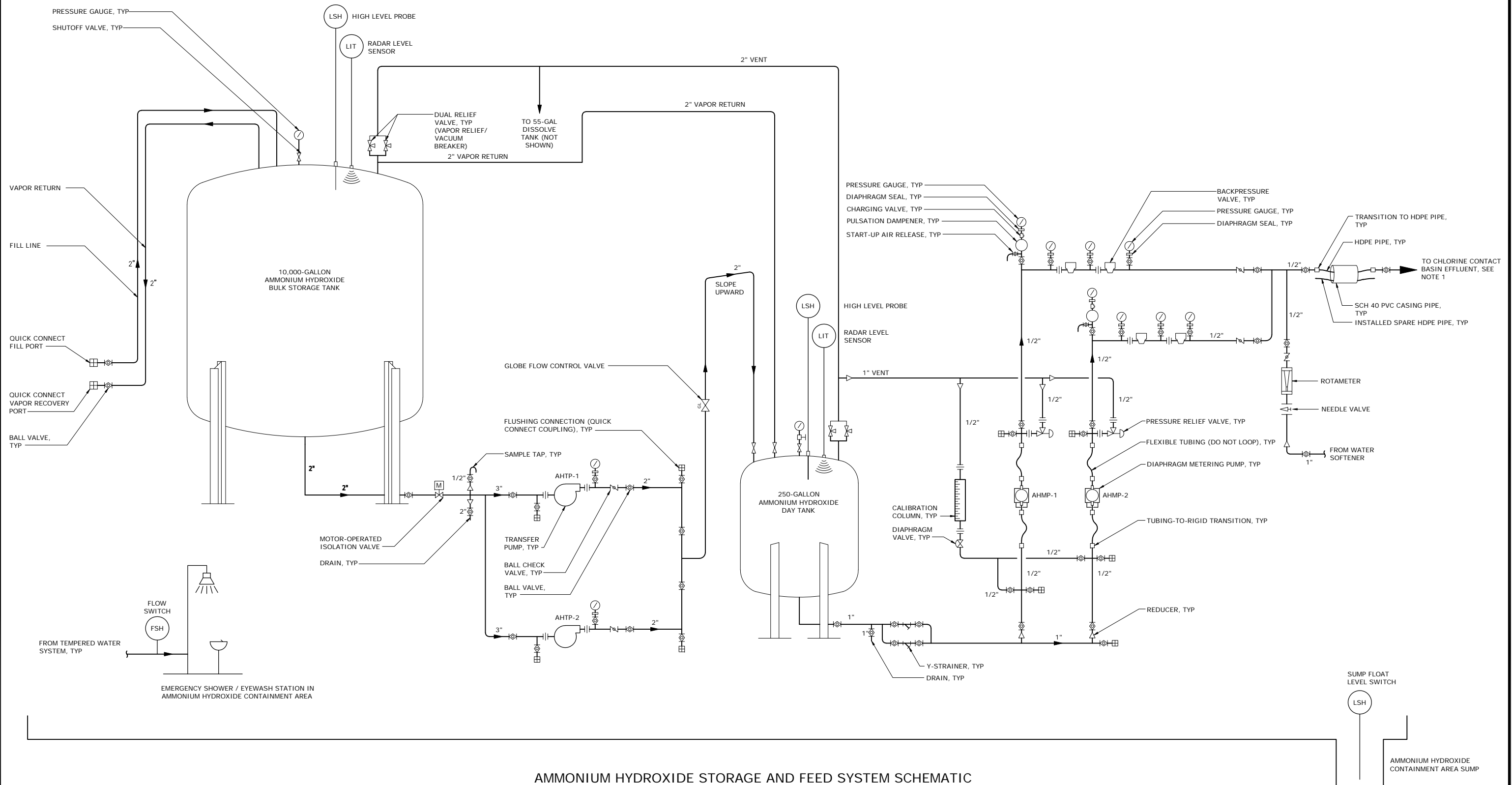
BASIS OF DESIGN REPORT
 DO NOT USE FOR
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Hazen
 HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
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KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

MECHANICAL
 SODIUM HYPOCHLORITE FEED
 SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M256



AMMONIUM HYDROXIDE STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\004-CON\004-000\DRAWINGS\MECH\RRS-1\257.dwg, 12/29/17 9:31 AM
 PLOT DATE: 12/27/17 4:50 PM BY: M0188BY

REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

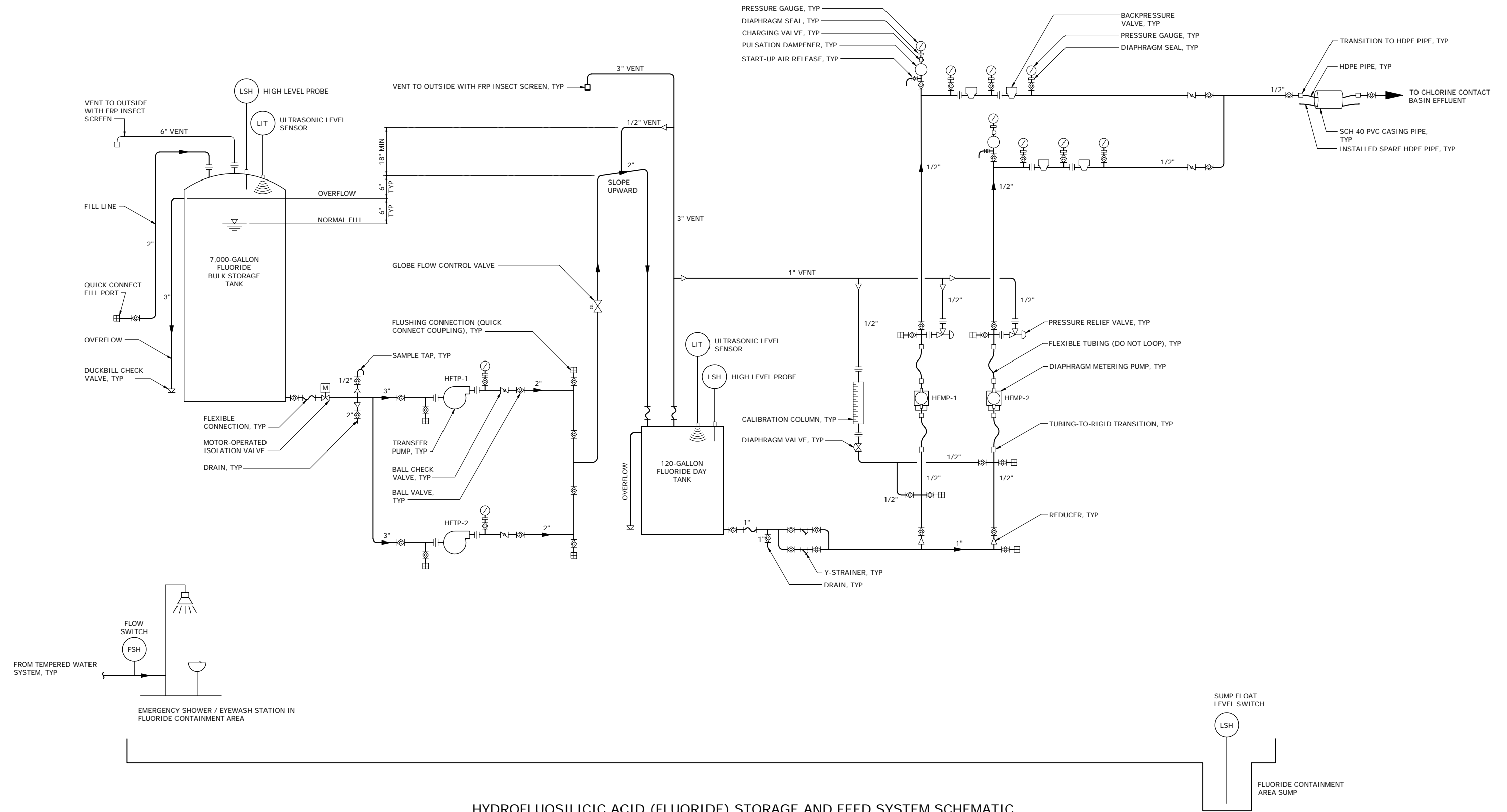
BASIS OF DESIGN REPORT
DO NOT USE FOR
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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
AMMONIUM HYDROXIDE STORAGE
AND FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M257



HYDROFLUOSILICIC ACID (FLUORIDE) STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\0604\CONTRACTS\0604\DRAWINGS\Mech\RRS-K258_Schematics\220917_1130.AM
 PLOT DATE: 12/27/2017 4:50 PM BY: KOVERBY

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

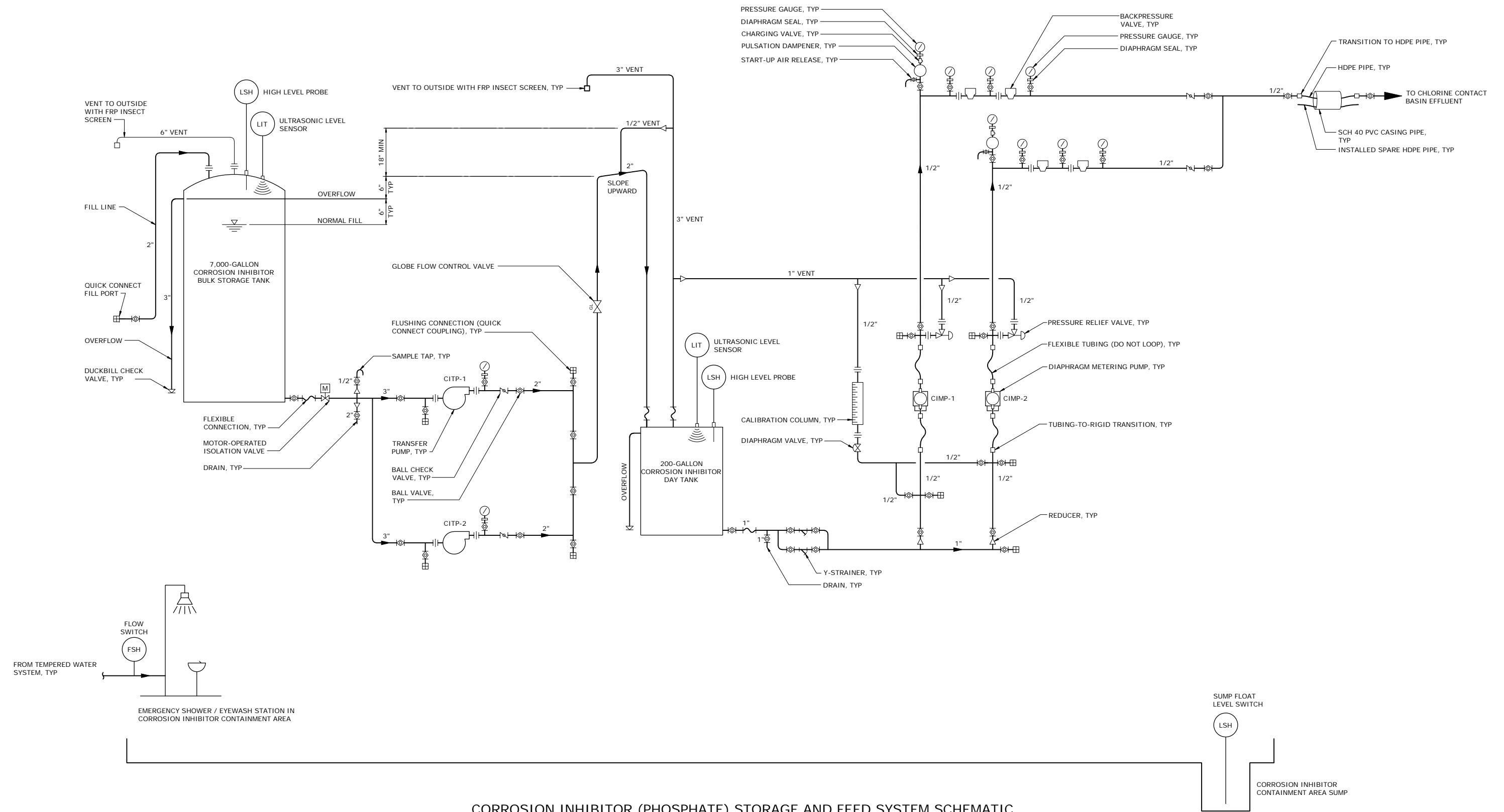
BASIS OF DESIGN REPORT
DO NOT USE FOR
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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
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KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

MECHANICAL
HYDROFLUOSILICIC ACID
STORAGE AND FEED SYSTEM
SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M258



CORROSION INHIBITOR (PHOSPHATE) STORAGE AND FEED SYSTEM SCHEMATIC

File: O:\0604\CONTR\0604\CONTR\DRAWING\MCH\RRS-1\2519.dwg, 12/27/2017 11:59 AM
 PLOT DATE: 12/27/2017 4:50 PM BY: KOVEBY

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

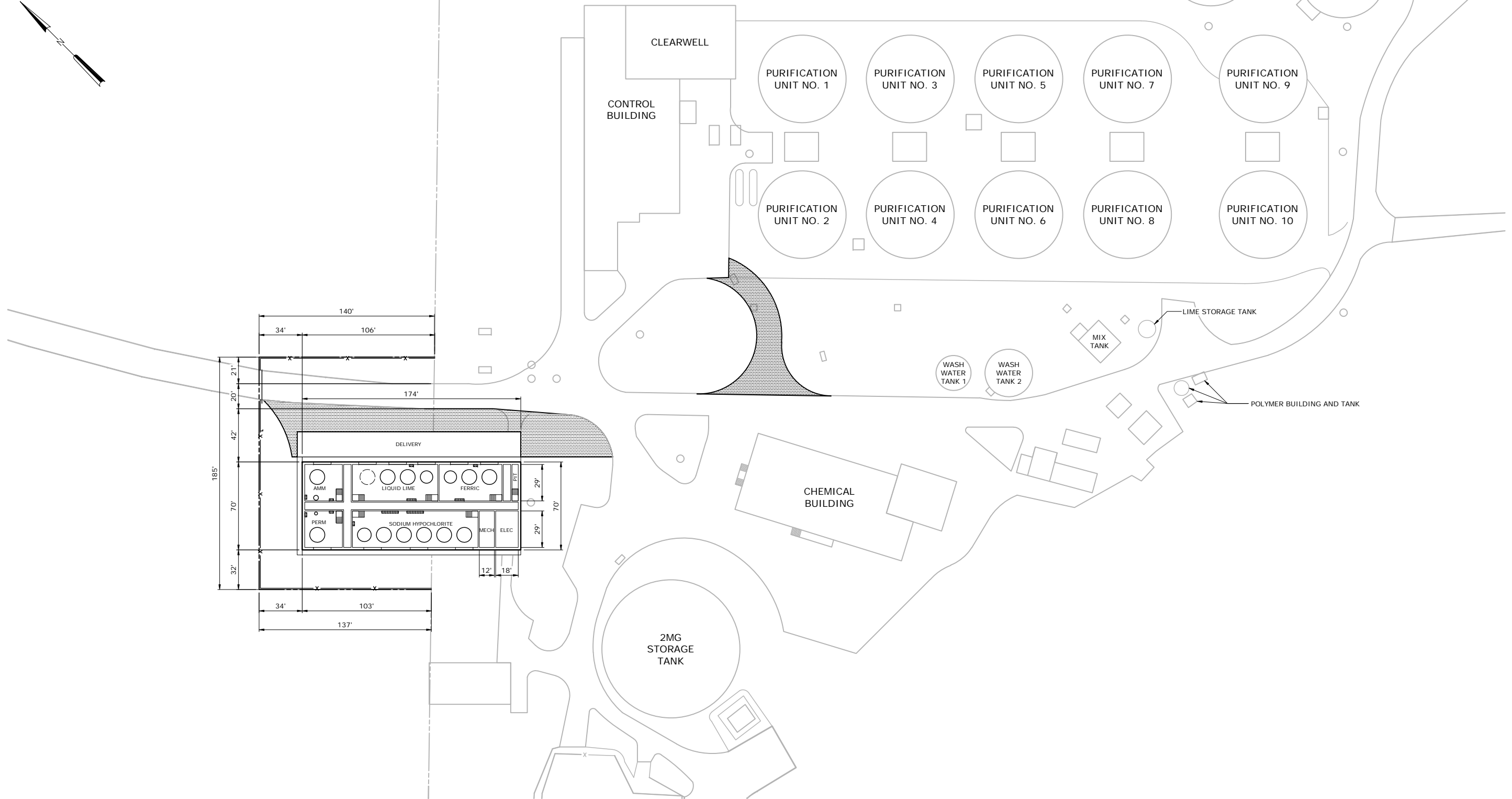
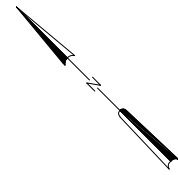
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

RICHMOND ROAD STATION

MECHANICAL
CORROSION INHIBITOR STORAGE
AND FEED SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M259



SITE PLAN

1" = 40' - 0"

1" = 40' - 0"



File: C:\0604\KAW_R_LFUCGDR1_NUM069_012519\DRAWINGS\MCH\RRS-M30.dwg, Sheet: M30, Date: 12/22/2017 10:05 AM, Plot Date: 12/22/2017 4:50 PM, By: K. OVERBY

REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
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CONSTRUCTION



HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

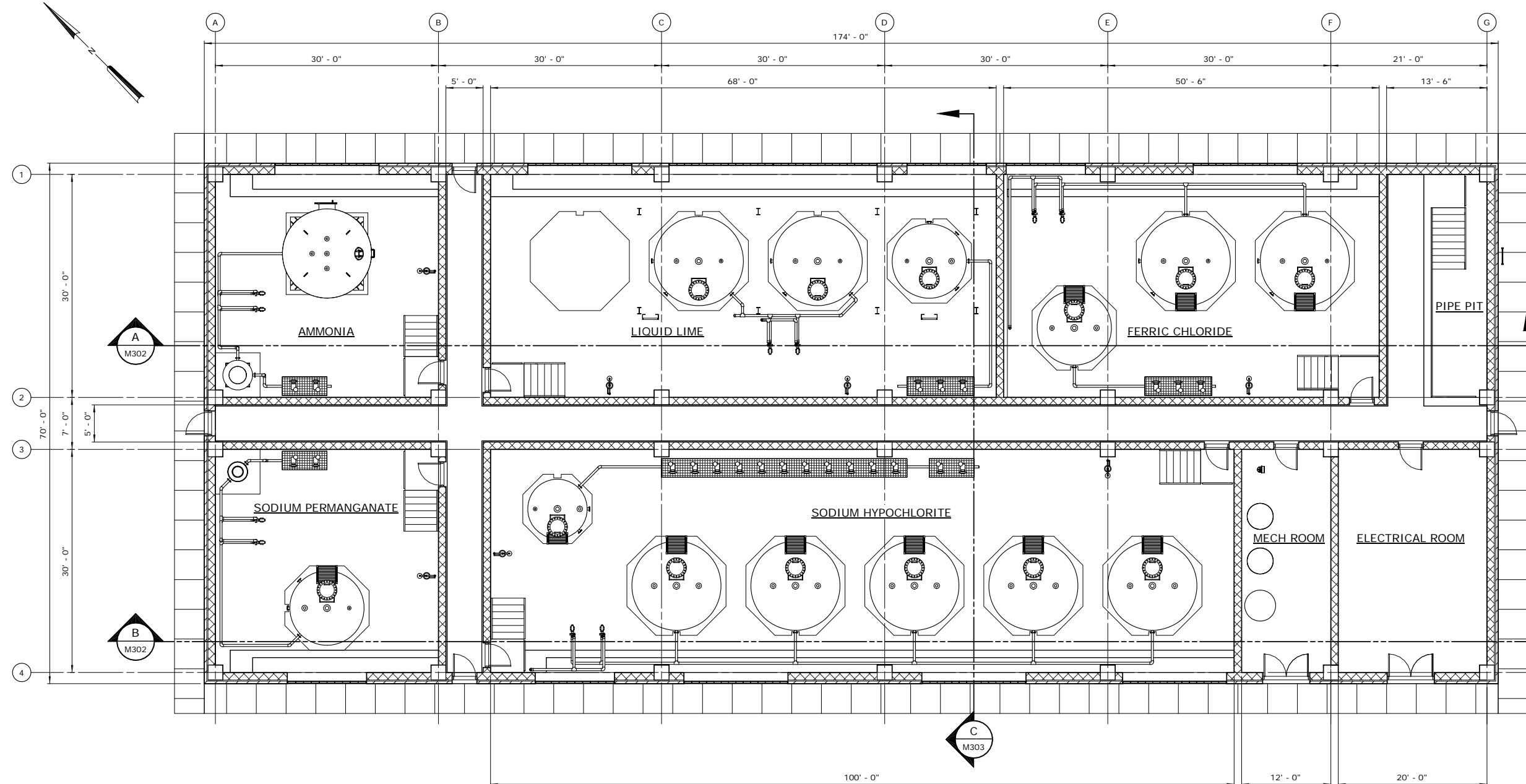
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

SITE WORK
MECHANICAL
SITE PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M30



PLAN AT EL 894.00
1/8" = 1'-0"

O:\00004-01\00004-000\Design\Drawings\300-CB-KRS1\00004-009-300-CB-MECH-1.dwg 12/22/2017 11:05:23 AM

PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

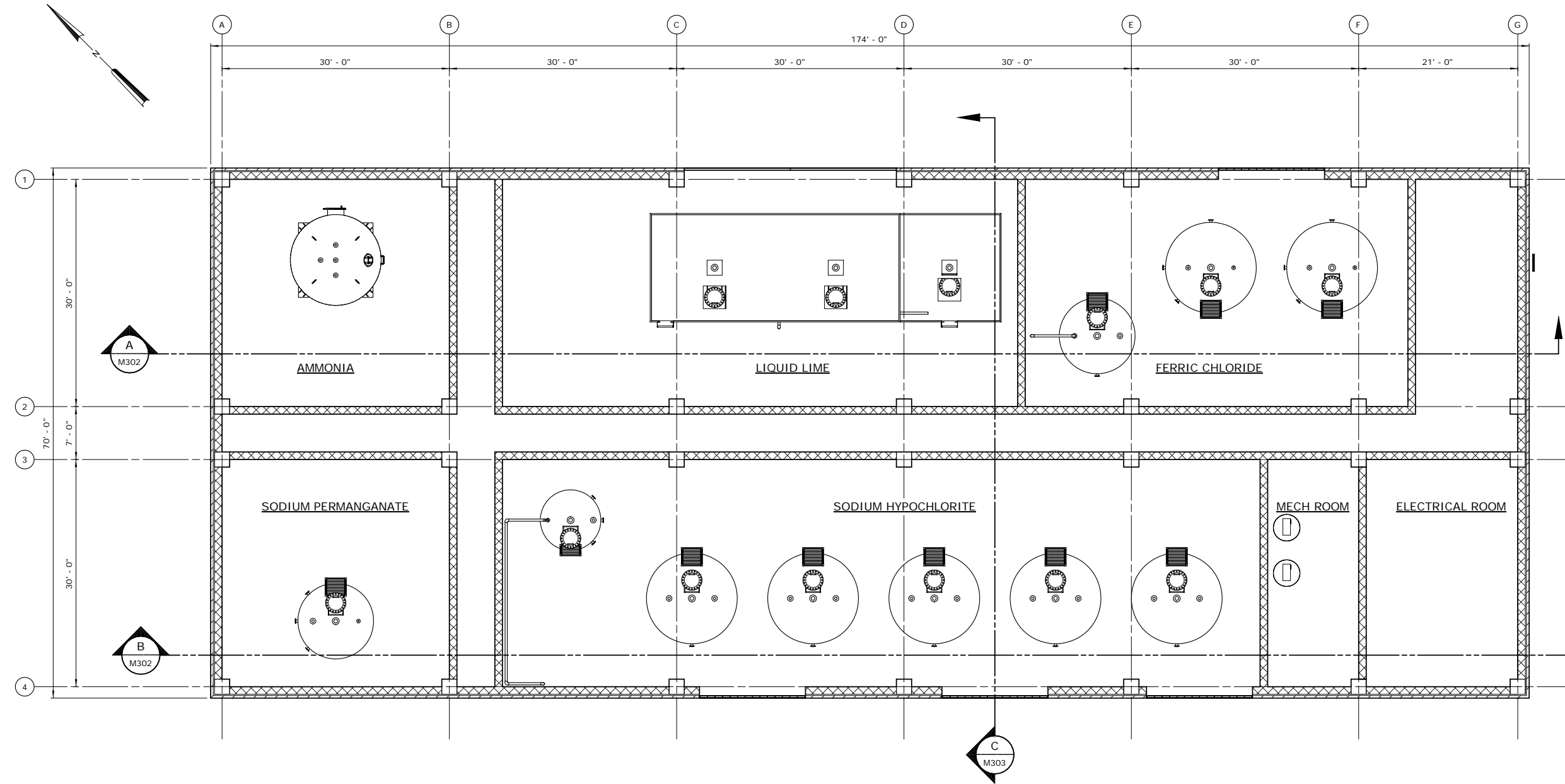
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

CHEMICAL BUILDING 2
MECHANICAL
PLAN AT EL 894.00

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M300



PLAN AT EL 914.00

1/8" = 1'-0"

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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

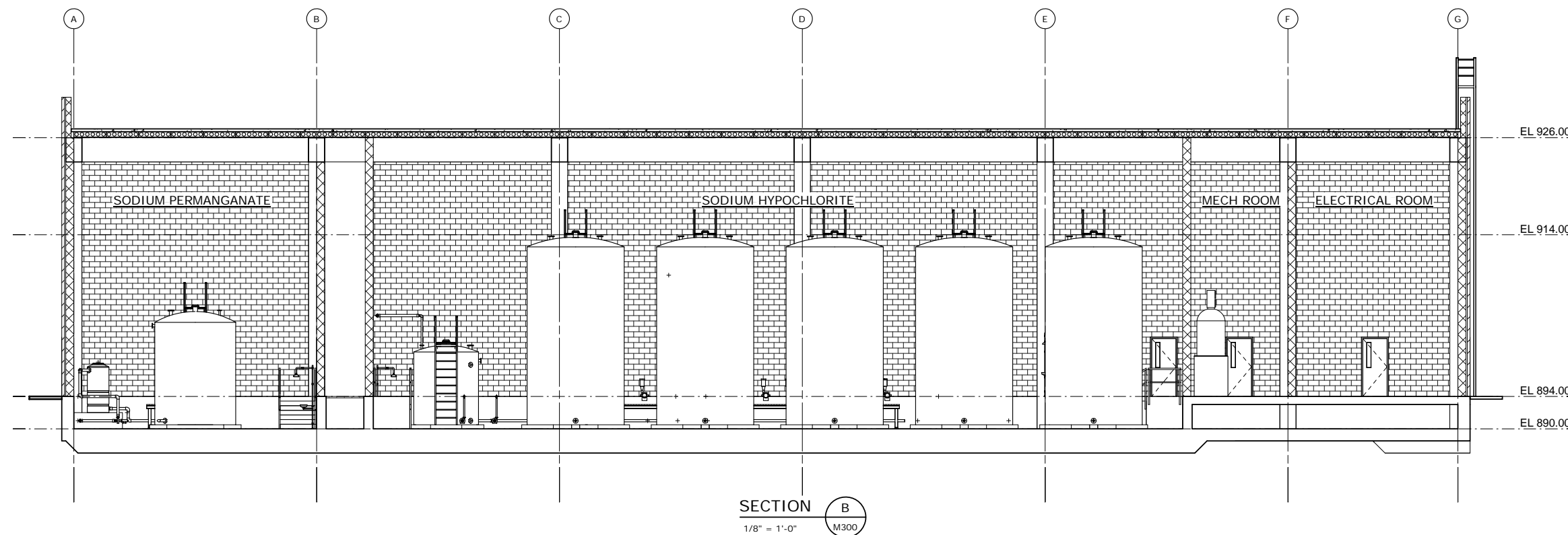
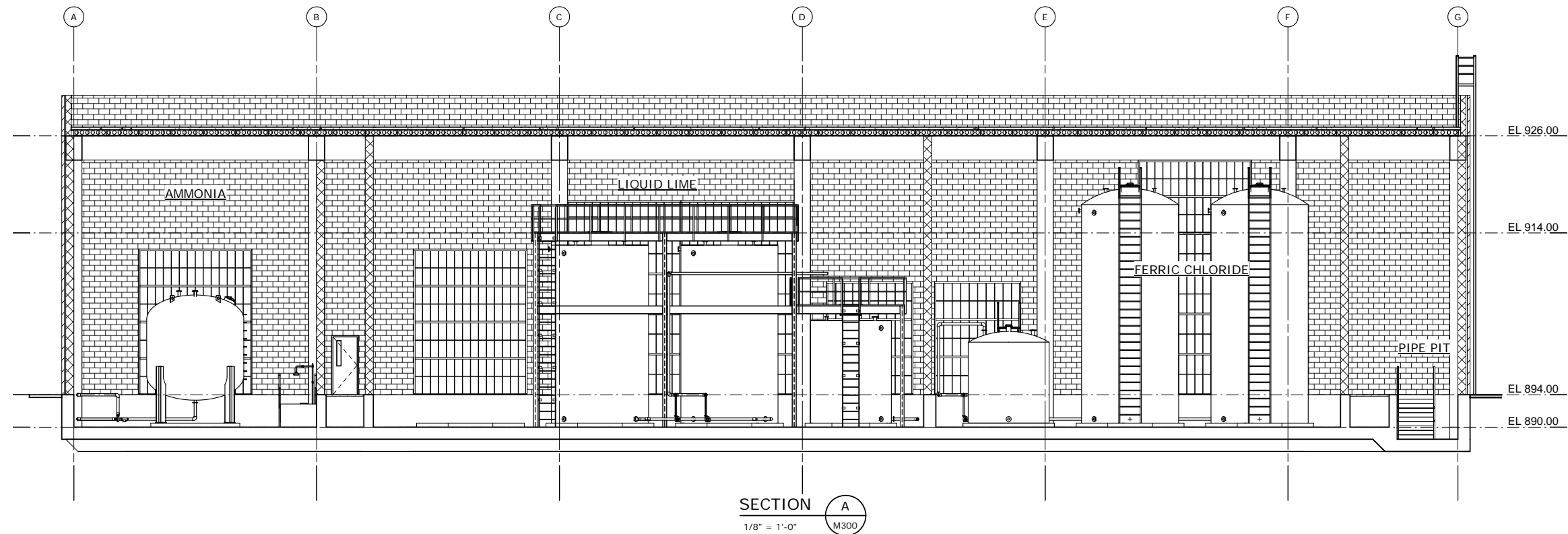
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

CHEMICAL BUILDING 2
MECHANICAL
PLAN AT EL 914.00

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M301



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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

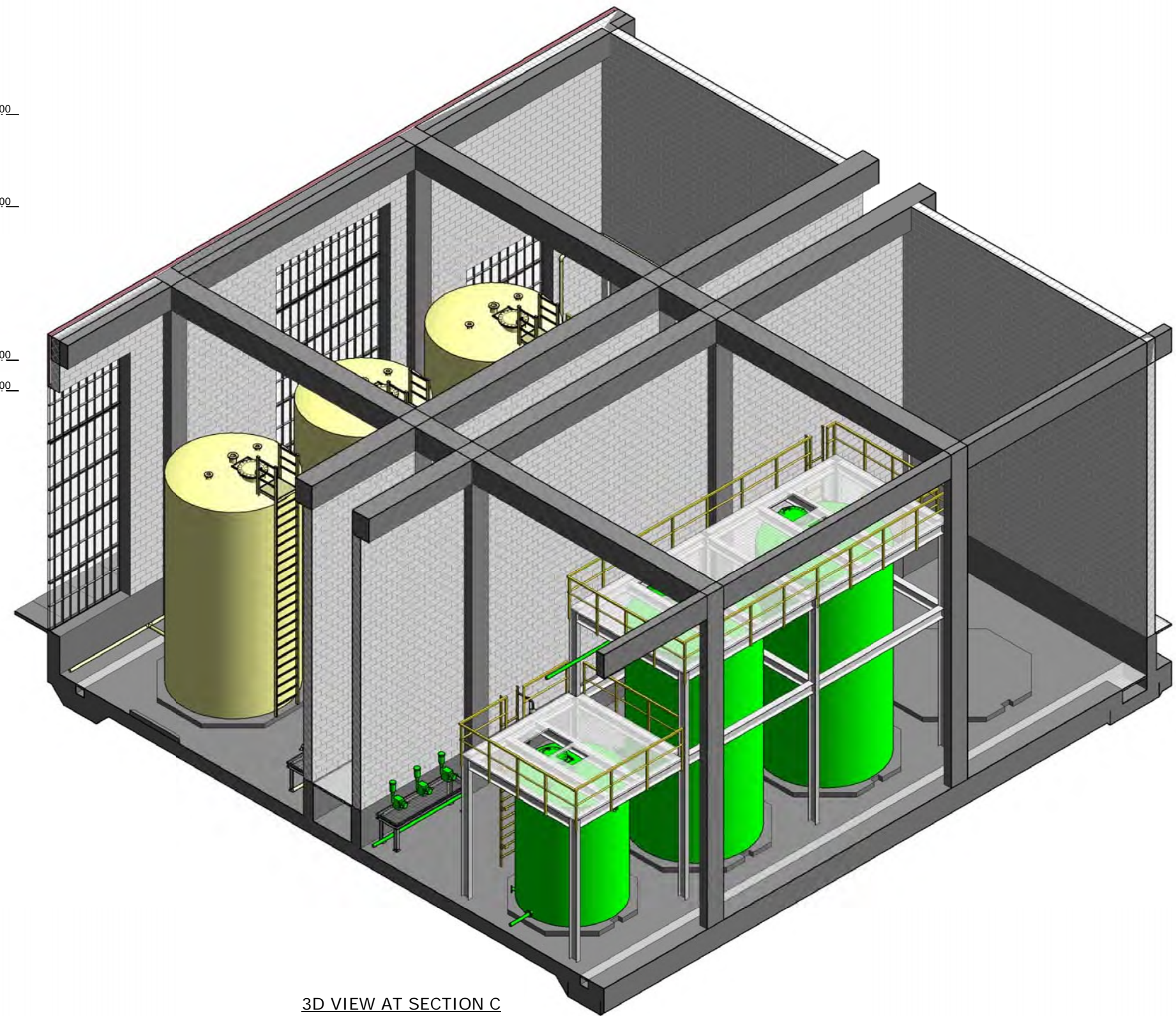
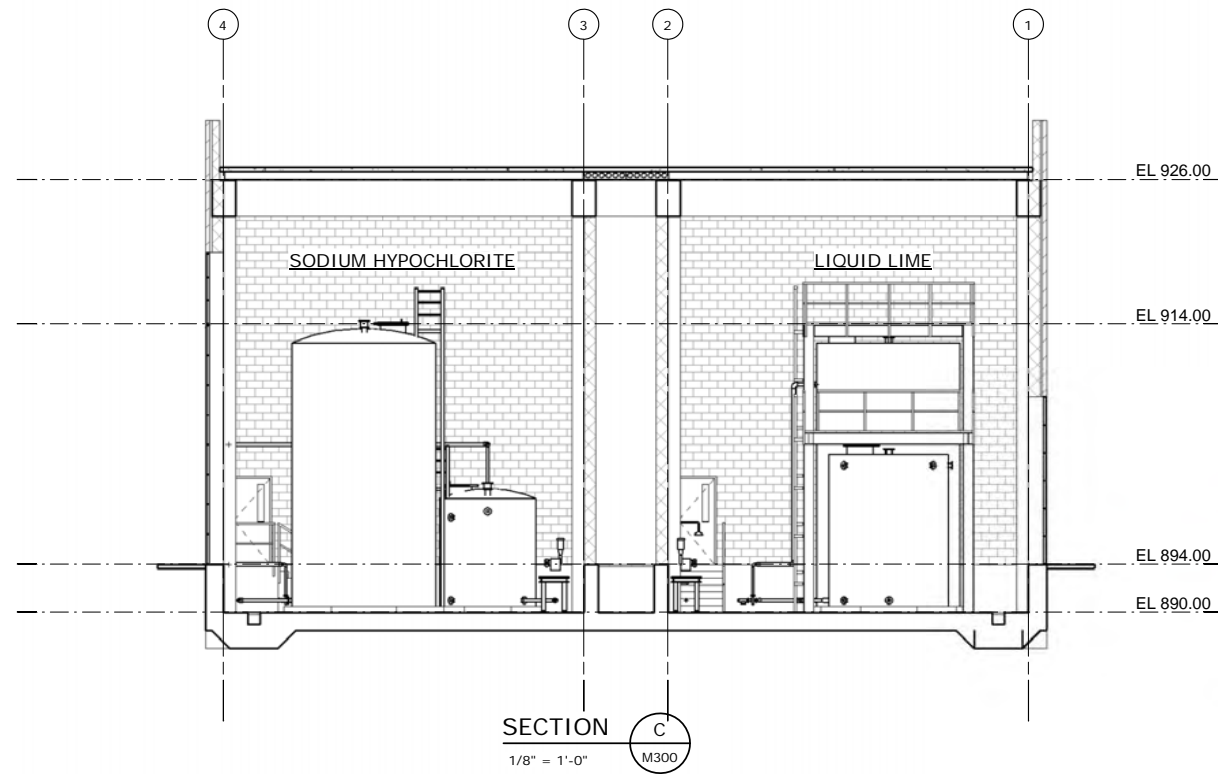
BASIS OF DESIGN REPORT
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CONSTRUCTION

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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

CHEMICAL BUILDING 2
MECHANICAL
SECTIONS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M302



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12/22/2017 11:05:30 AM

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

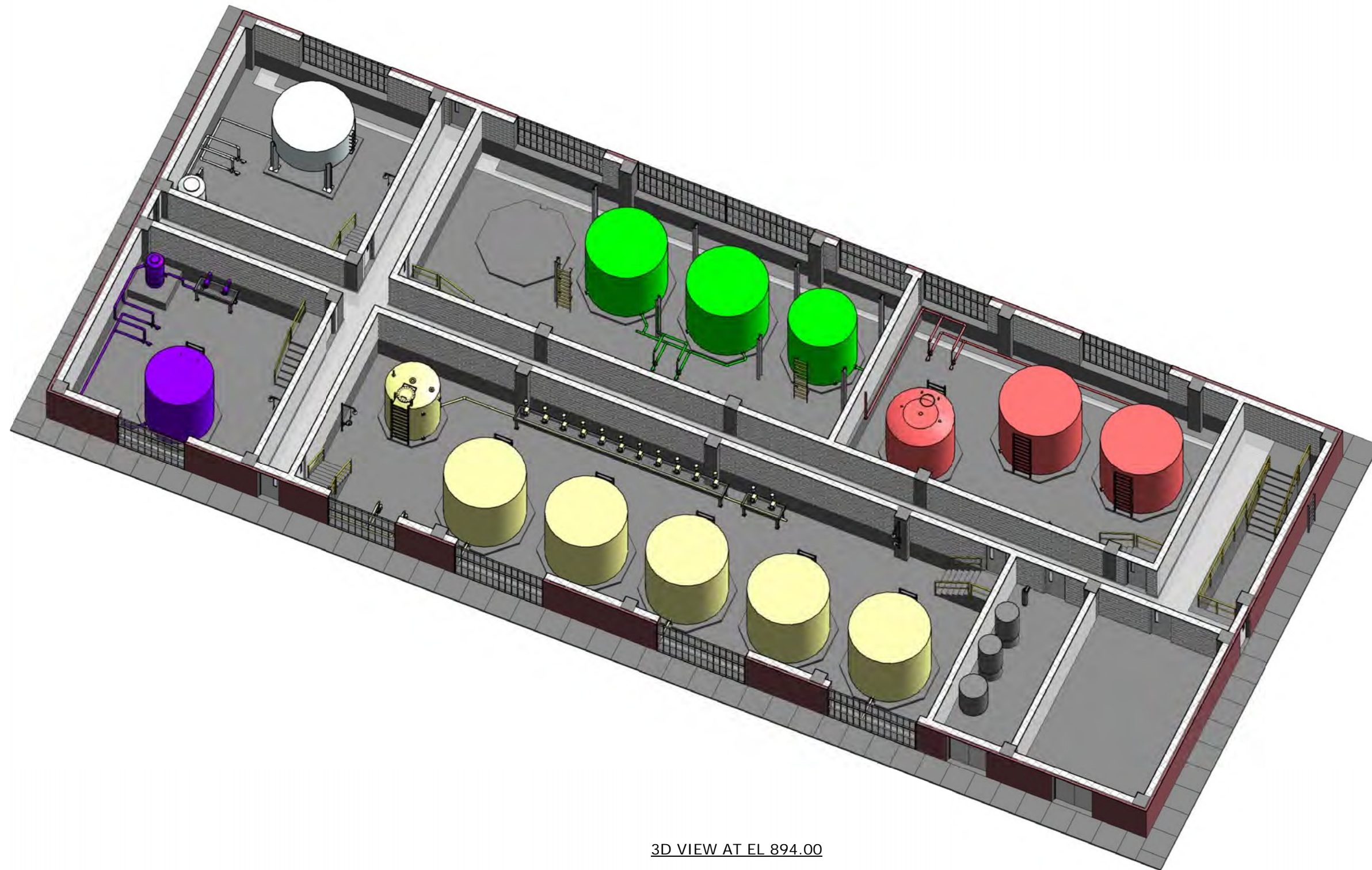
BASIS OF DESIGN REPORT
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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

CHEMICAL BUILDING 2
MECHANICAL
SECTIONS

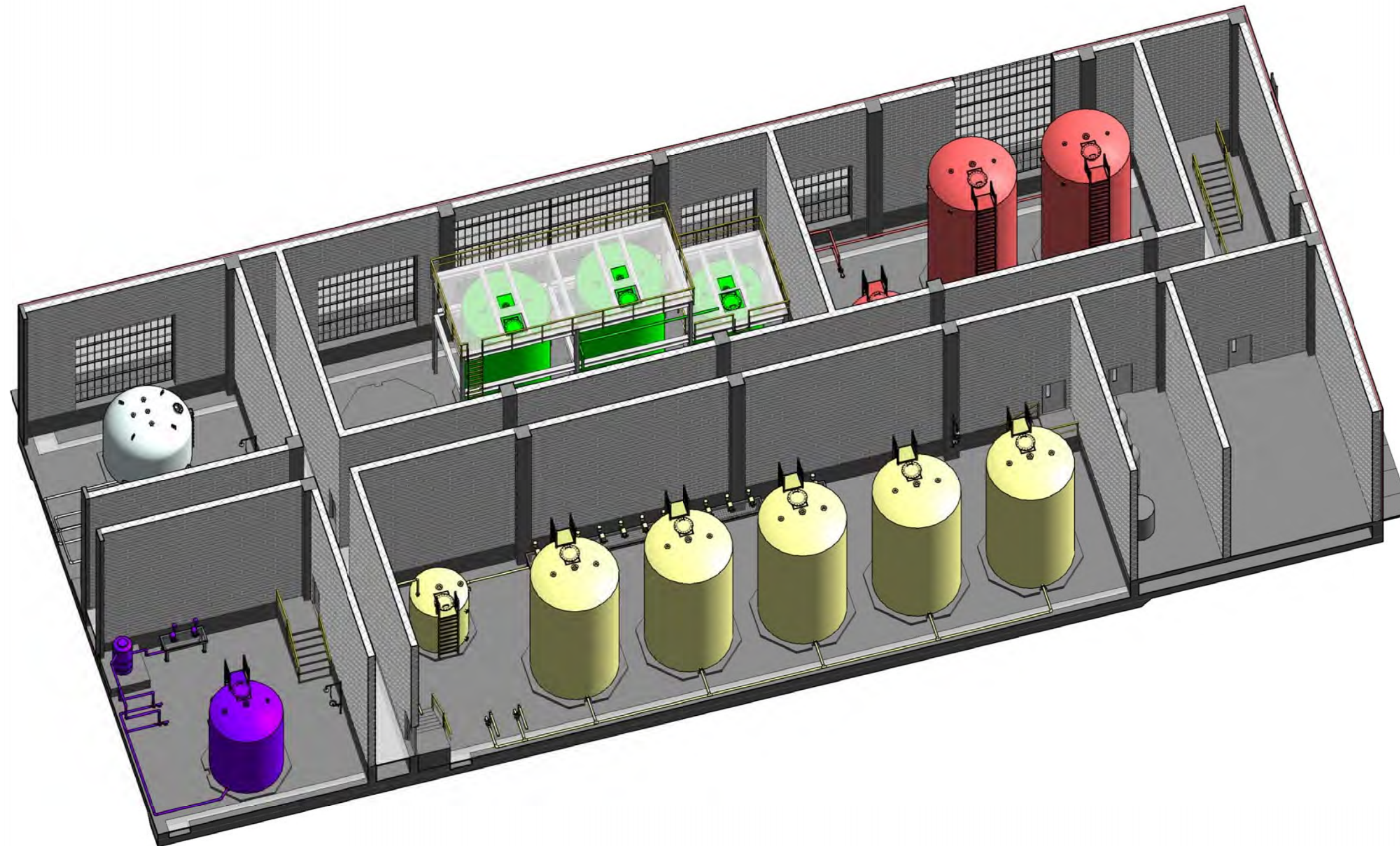
DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M303



3D VIEW AT EL 894.00

O:\50084-009\50084-009\Design\Drawings\300-CB-KRS1\50084-009-300-CB-MECH114 12/22/2017 11:08:32 AM

				PROJECT ENGINEER: D. LALIBERTE DESIGNED BY: S. GIBSON DRAWN BY: K. OVERBY CHECKED BY: A. LOUGHLIN	BASIS OF DESIGN REPORT DO NOT USE FOR CONSTRUCTION	HAZEN AND SAWYER 4011 WESTCHASE BOULEVARD, SUITE 500 RALEIGH, NORTH CAROLINA 27607 LICENSE NO.: C-0381	KENTUCKY AMERICAN WATER LEXINGTON, KENTUCKY RRS AND KRS-1 CHEMICAL IMPROVEMENTS PROJECT KENTUCKY RIVER STATION 1	CHEMICAL BUILDING 2 MECHANICAL 3D VIEWS	DATE: DECEMBER 2017
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE					HAZEN NO.: 50084-009 CONTRACT NO.: 1 KYAW NO.: 123456-7890 DRAWING NUMBER: M304
REV	ISSUED FOR	DATE	BY						



3D VIEW AT EL 914.00

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PROJECT ENGINEER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

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RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

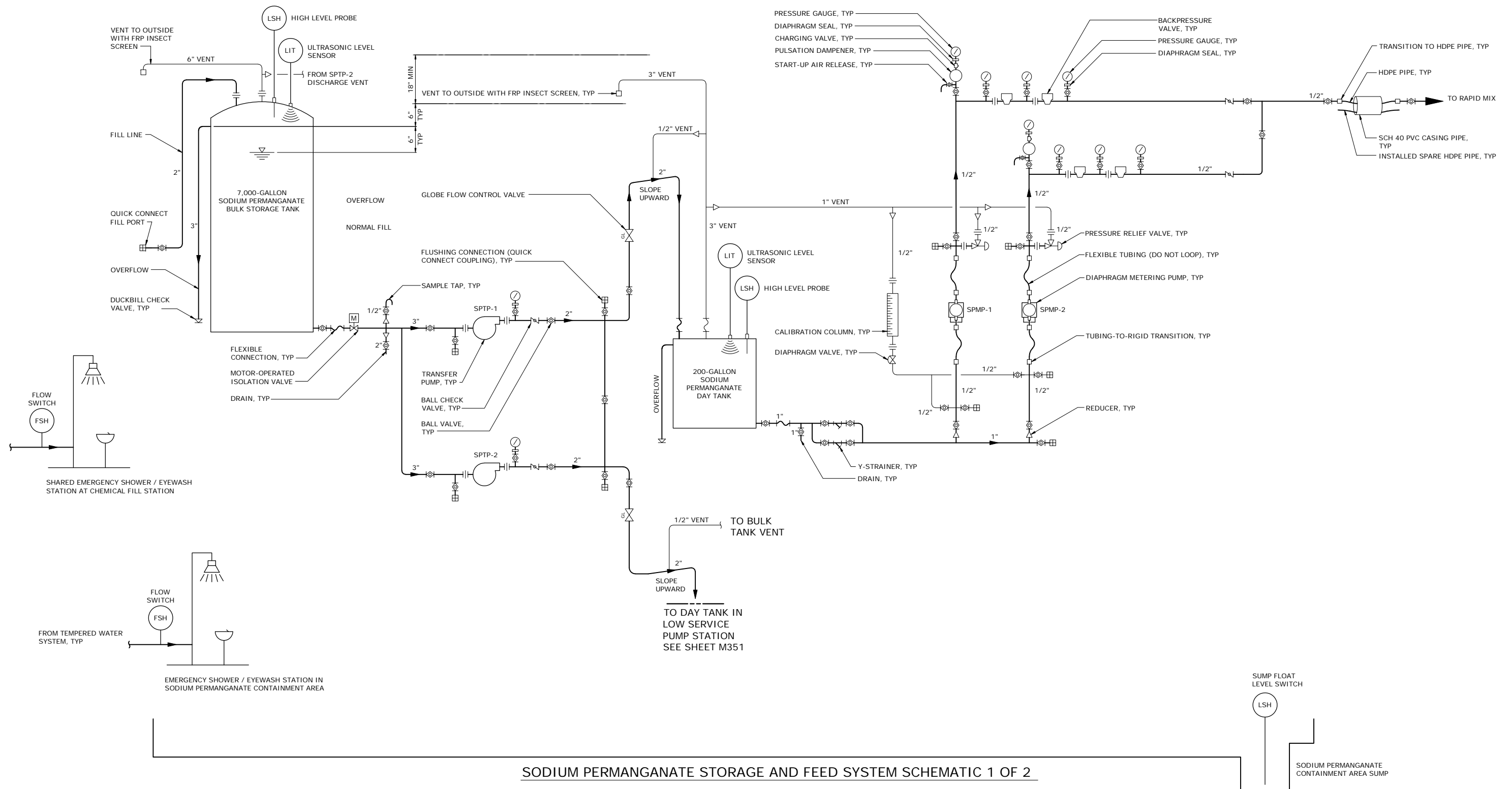
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

CHEMICAL BUILDING 2
MECHANICAL
3D VIEWS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	M305



SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC 1 OF 2

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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

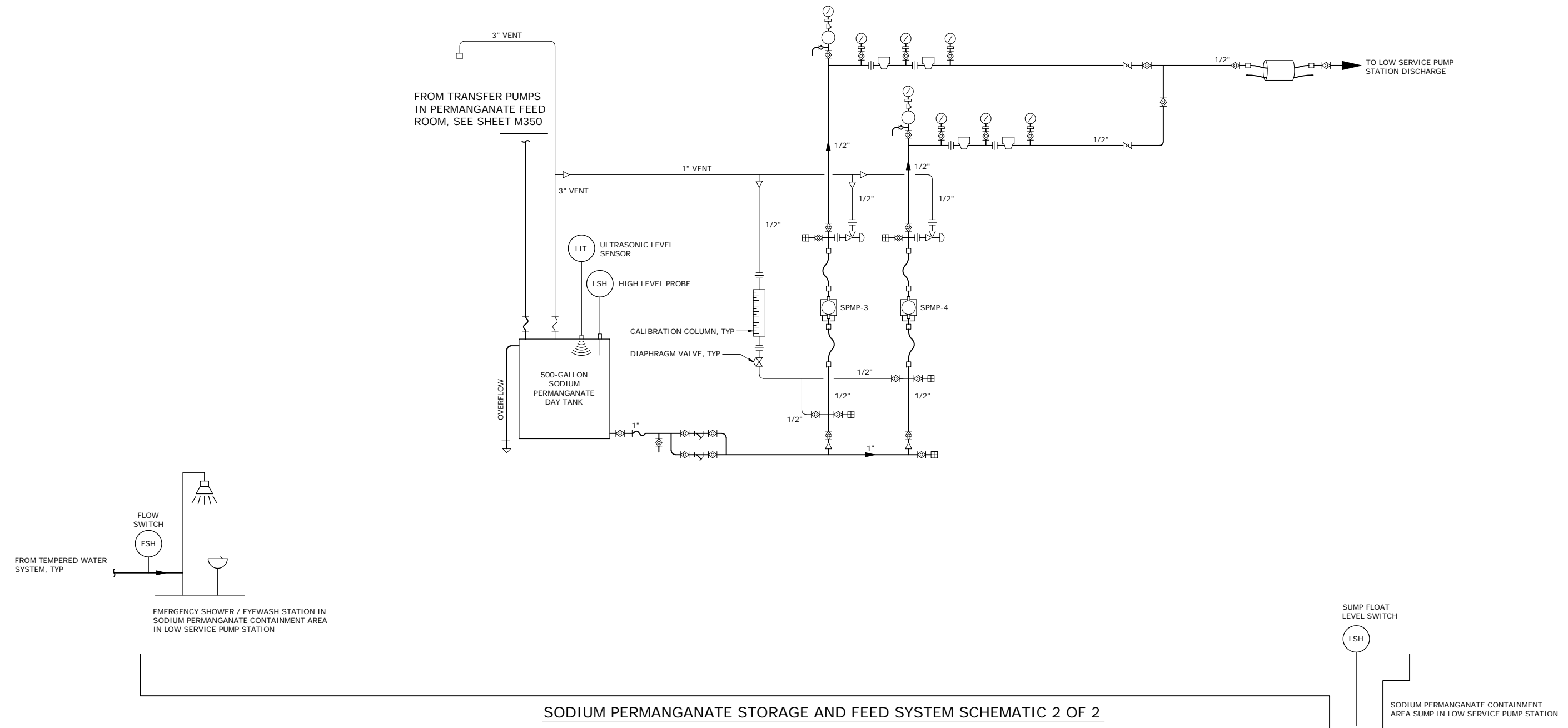
BASIS OF DESIGN REPORT
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LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

MECHANICAL
SODIUM PERMANGANATE STORAGE
AND FEED SYSTEM SCHEMATIC 1 OF 2

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M350



SODIUM PERMANGANATE STORAGE AND FEED SYSTEM SCHEMATIC 2 OF 2

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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	S. GIBSON
DRAWN BY:	K. OVERBY
CHECKED BY:	A. LOUGHLIN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

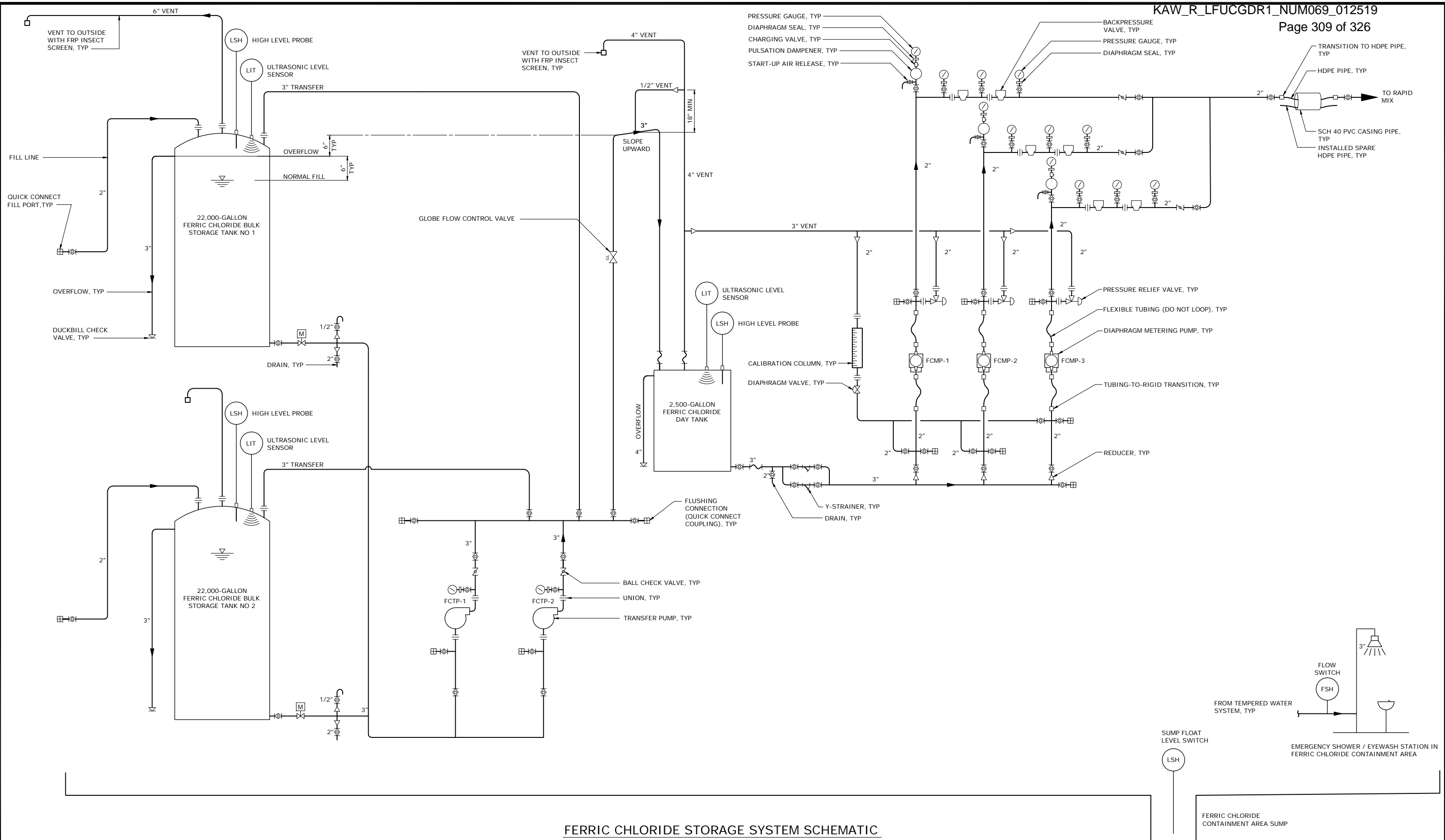
BASIS OF DESIGN REPORT
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CONSTRUCTION

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RALEIGH, NORTH CAROLINA 27607
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KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

MECHANICAL
SODIUM PERMANGANATE STORAGE
AND FEED SYSTEM SCHEMATIC 2 OF
2

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M351



FERRIC CHLORIDE STORAGE SYSTEM SCHEMATIC

PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	A. LOUGHLIN		
DRAWN BY:	D. CARR		
CHECKED BY:	S. GIBSON		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

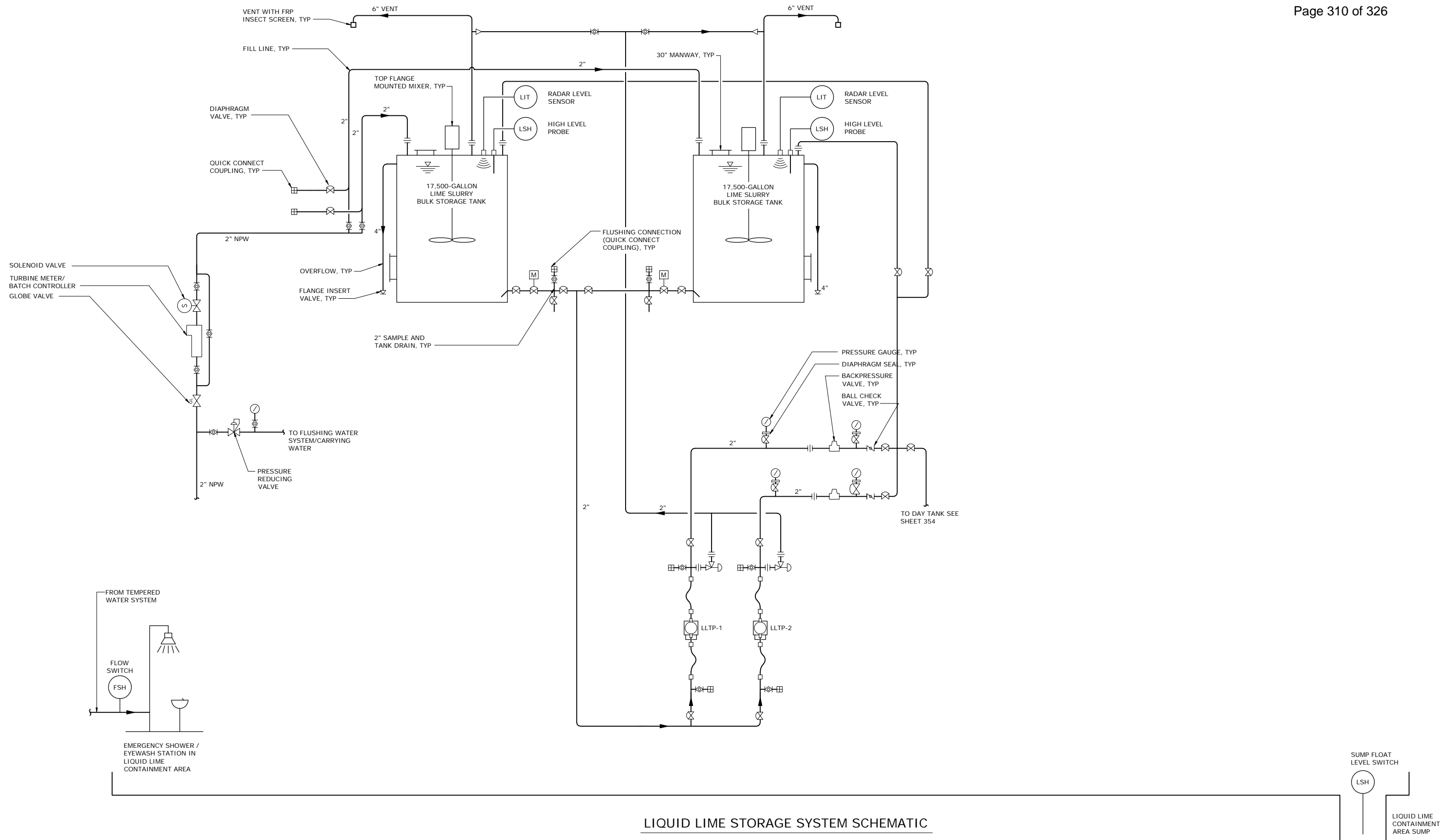


KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M352

MECHANICAL
FERRIC CHLORIDE STORAGE AND
FEED SYSTEM SCHEMATIC

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LIQUID LIME STORAGE SYSTEM SCHEMATIC

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REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

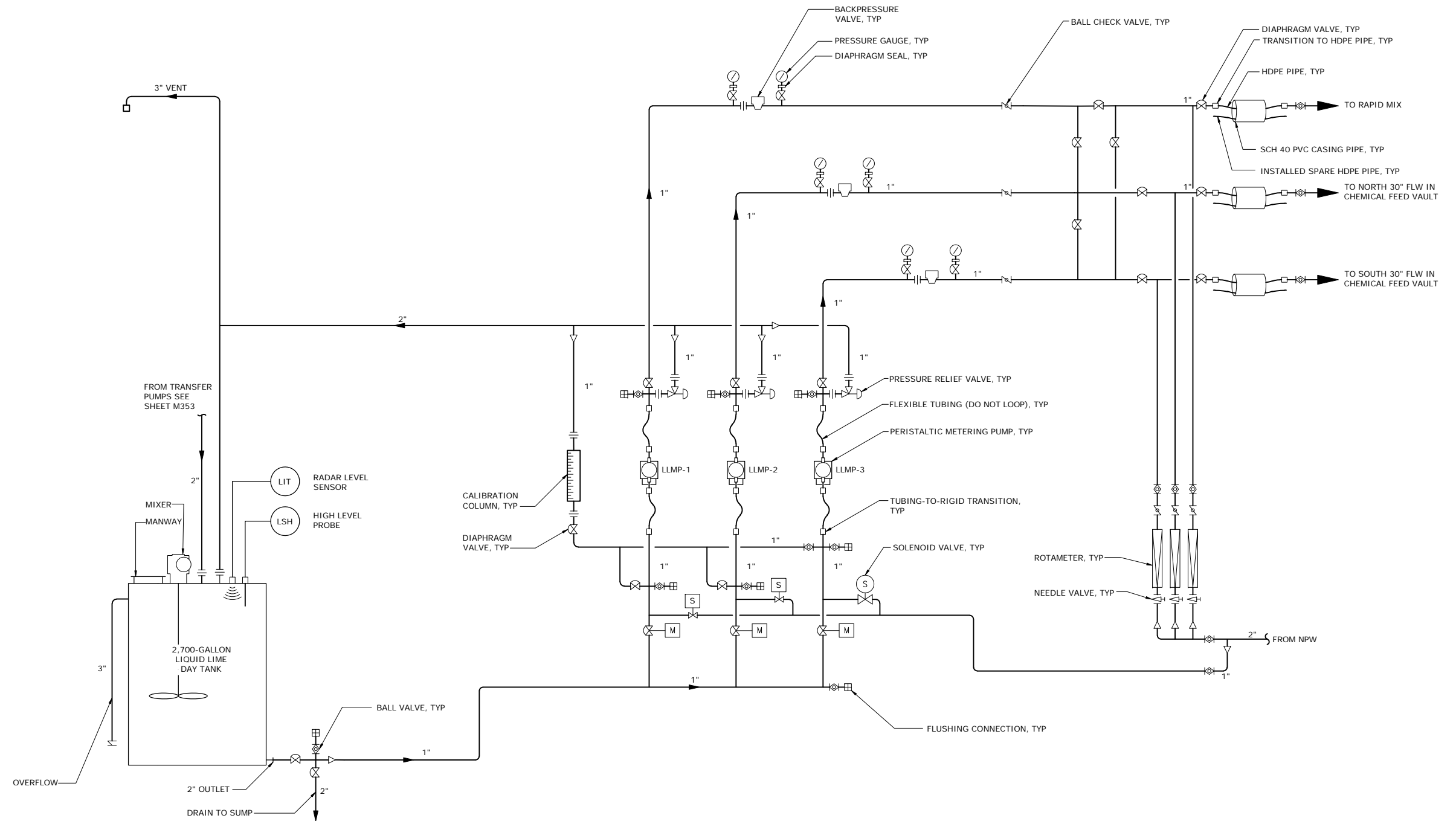
BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

Hazen
HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

MECHANICAL
LIQUID LIME STORAGE
SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M353



LIQUID LIME FEED SYSTEM SCHEMATIC

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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR
	DATE
	BY

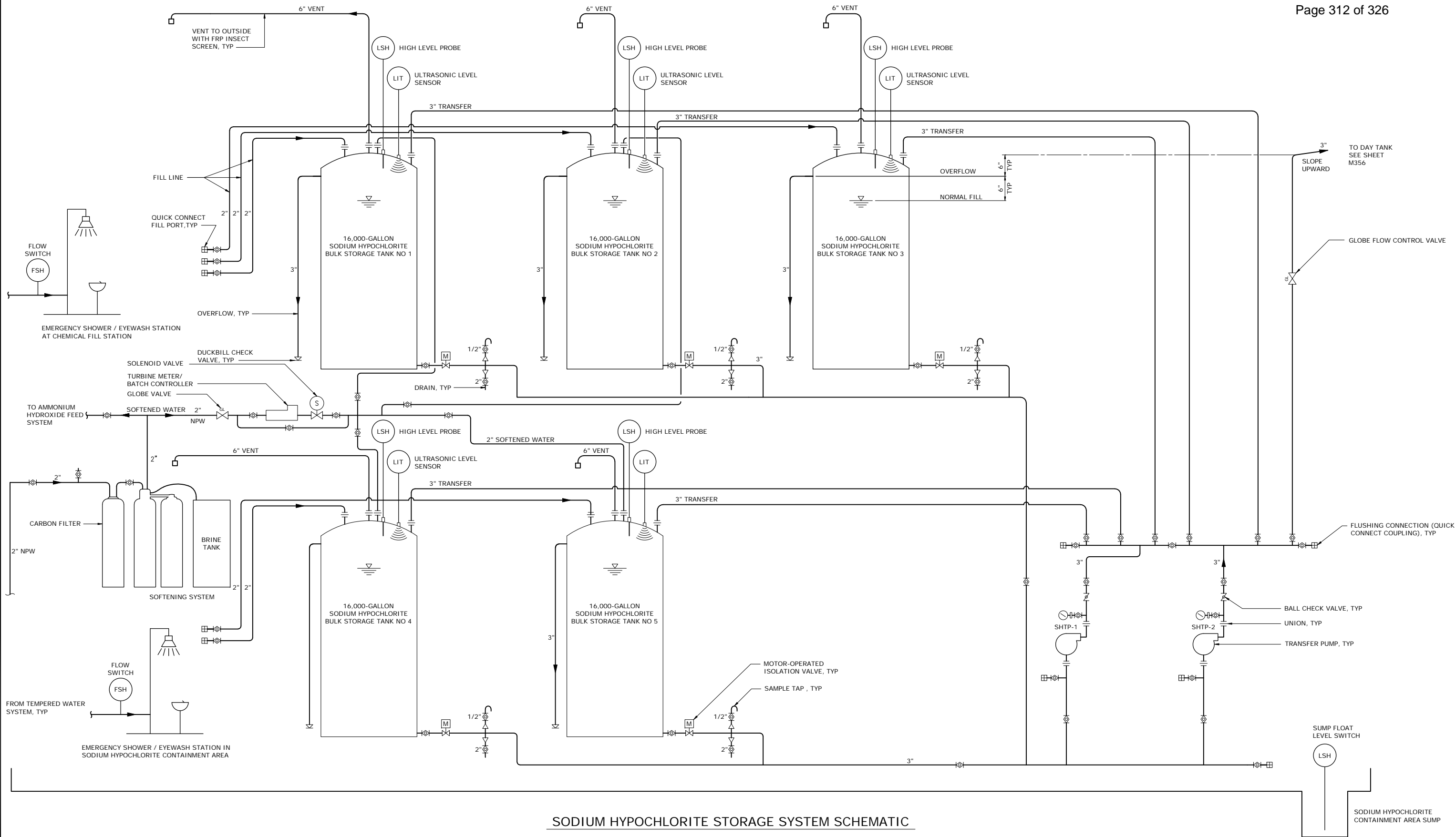
BASIS OF DESIGN REPORT
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CONSTRUCTION



KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

MECHANICAL
LIQUID LIME FEED
SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M354



SODIUM HYPOCHLORITE STORAGE SYSTEM SCHEMATIC

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REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

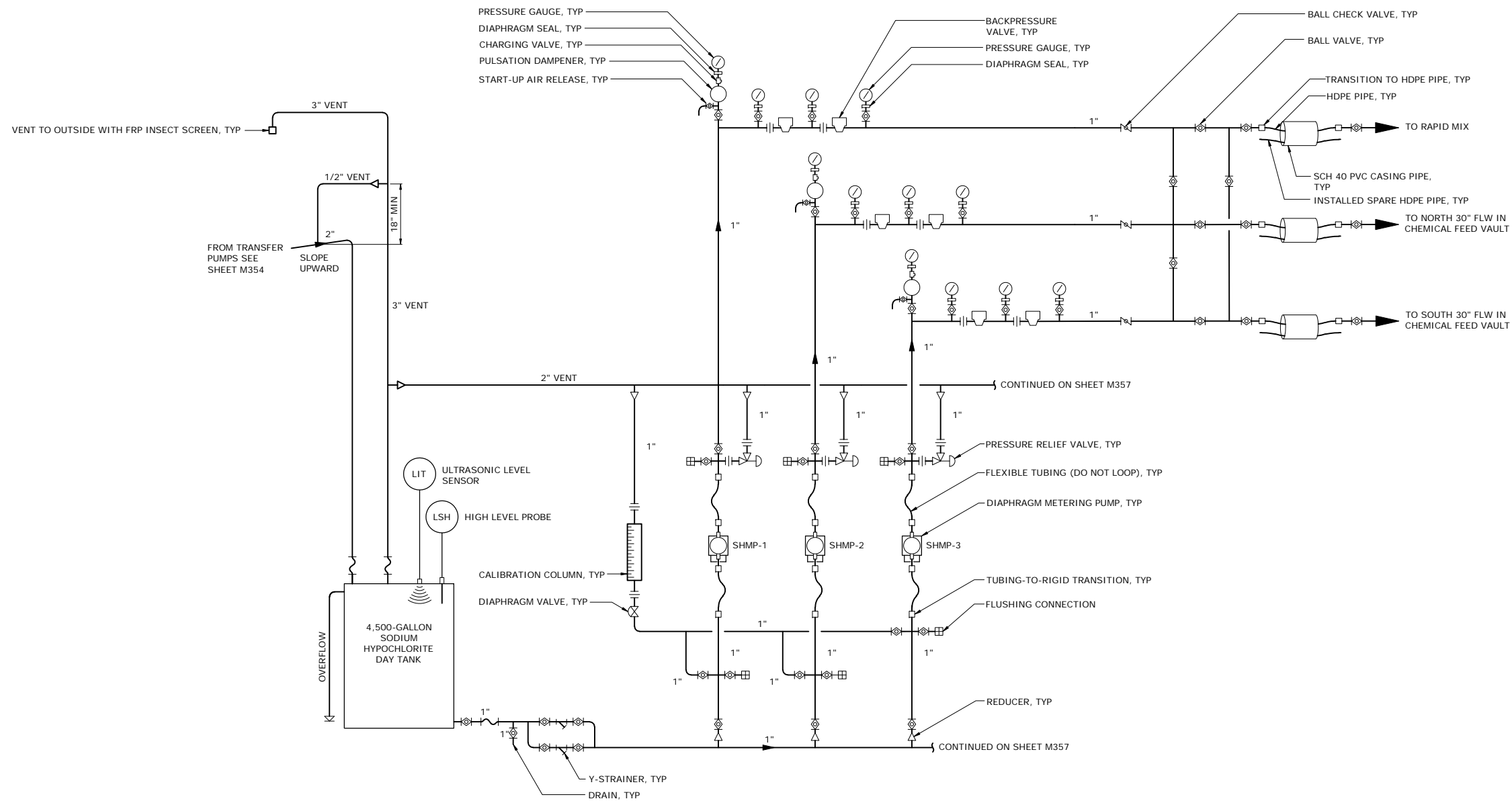
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KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
KENTUCKY RIVER STATION 1

MECHANICAL
SODIUM HYPOCHLORITE
STORAGE SYSTEM SCHEMATIC

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M355



SODIUM HYPOCHLORITE FEED SYSTEM SCHEMATIC 1 OF 2

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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION



HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

MECHANICAL
SODIUM HYPOCHLORITE FEED
SYSTEM SCHEMATIC 1 OF 2

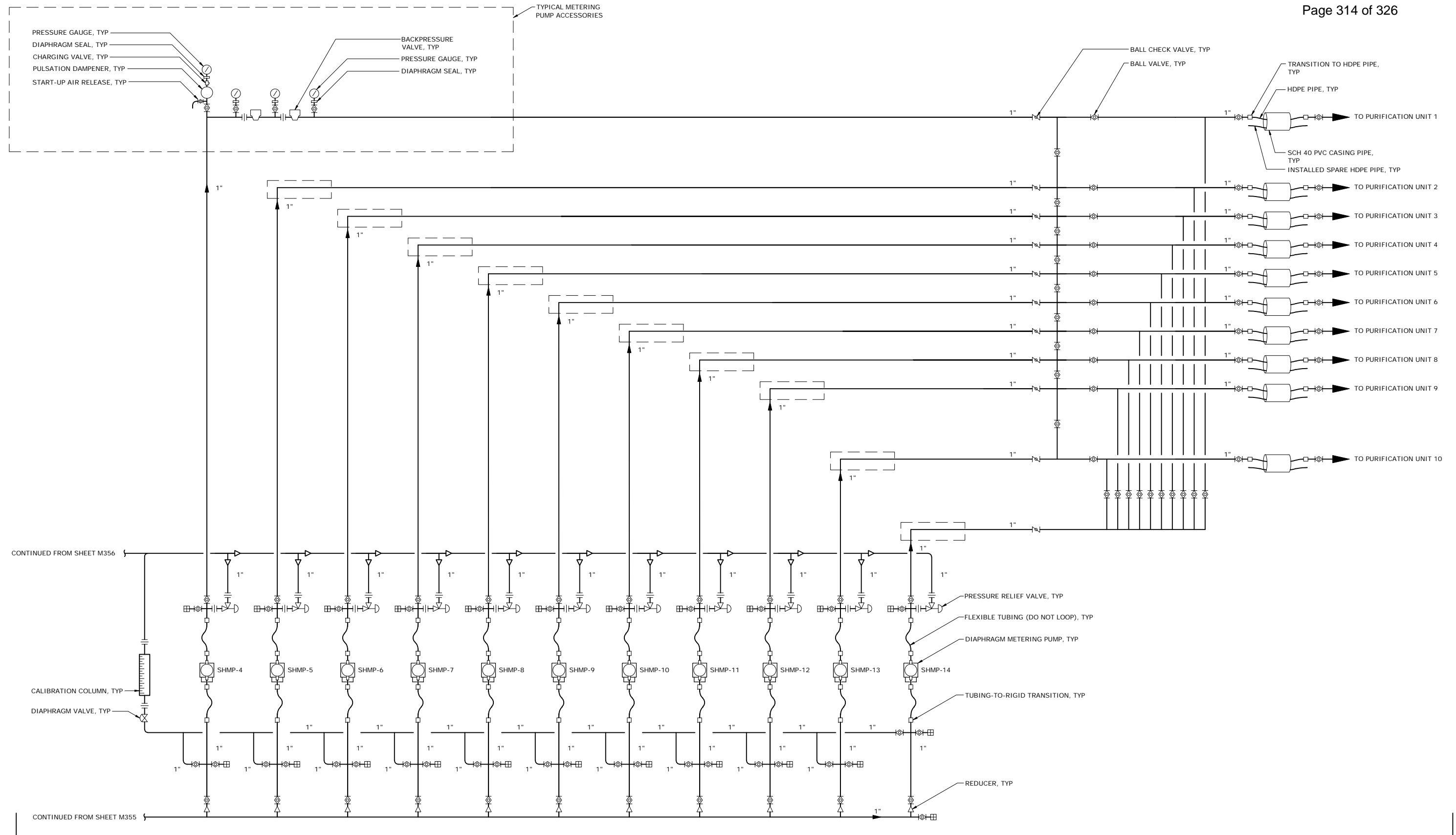
DATE: DECEMBER 2017

HAZEN NO.: 50084-009

CONTRACT NO.: 01

KYAW NO.: 123456-7890

DRAWING NUMBER: M356



SODIUM HYPOCHLORITE FEED SYSTEM SCHEMATIC 2 OF 2

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REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	A. LOUGHLIN
DRAWN BY:	D. CARR
CHECKED BY:	S. GIBSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

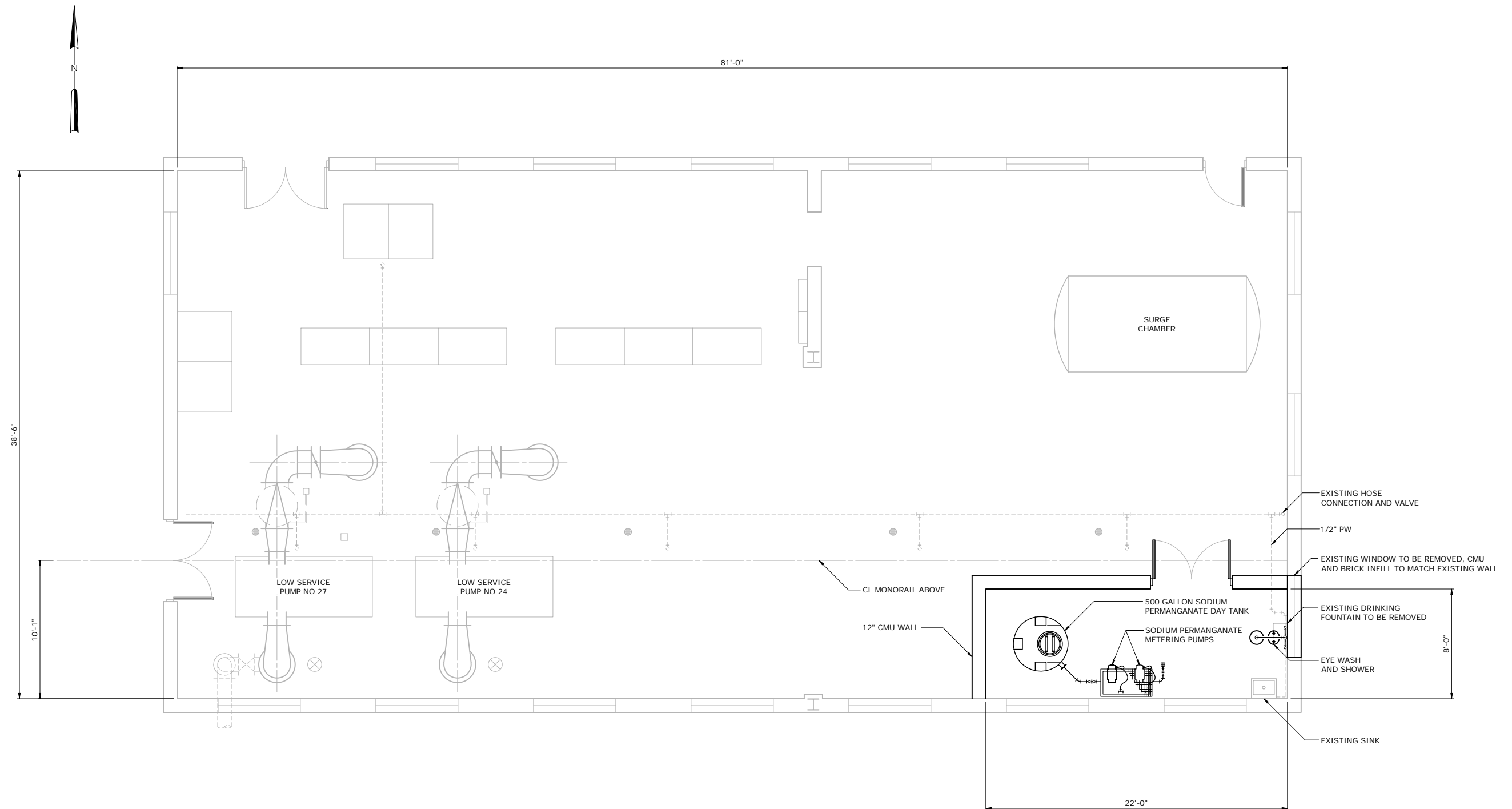
BASIS OF DESIGN REPORT
 DO NOT USE FOR
 CONSTRUCTION



KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 KENTUCKY RIVER STATION 1

MECHANICAL
 SODIUM HYPOCHLORITE FEED
 SYSTEM SCHEMATIC 2 OF 2

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M357



PLAN AT PUMP ROOM
1/4" = 1'-0"

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PROJECT MANAGER:	D. LALIBERTE		
DESIGNED BY:	S. GIBSON		
DRAWN BY:	K. OVERBY		
CHECKED BY:	A. LOUGHLIN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

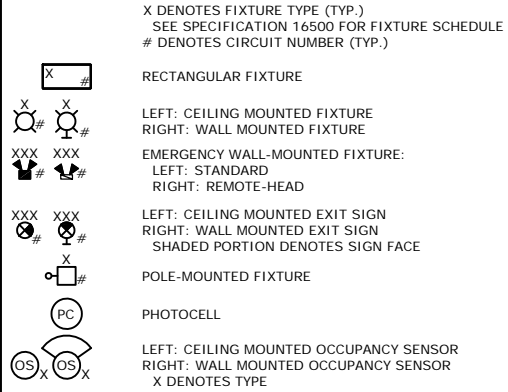
Hazen
 HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 KENTUCKY RIVER STATION 1

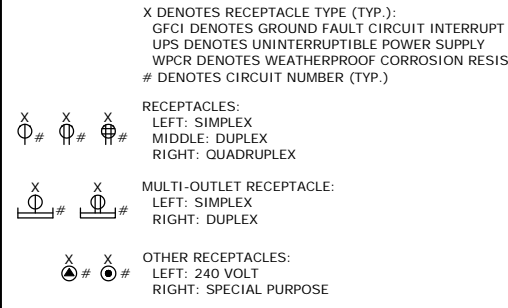
LOW SERVICE PUMP STATION
 MECHANICAL
 PLAN

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	M400

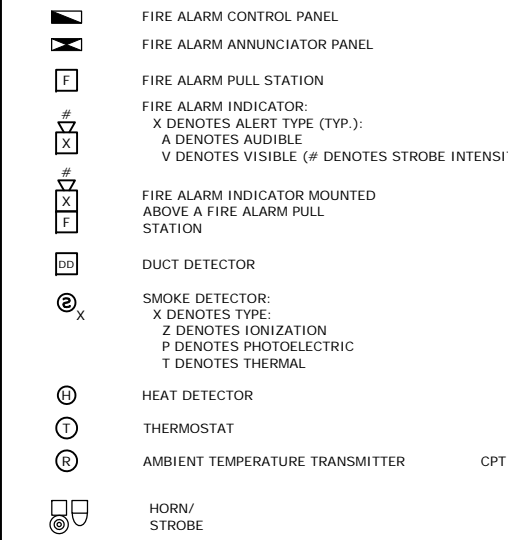
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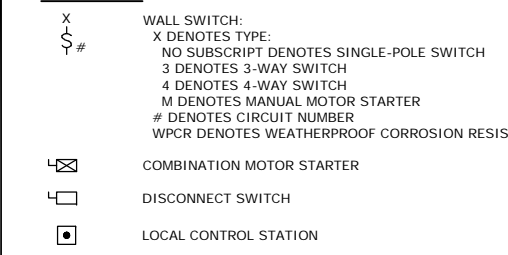
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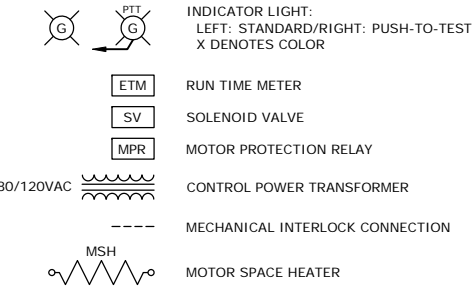
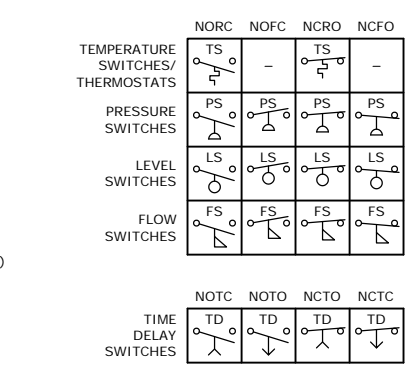
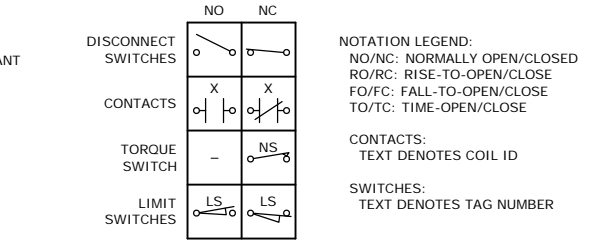
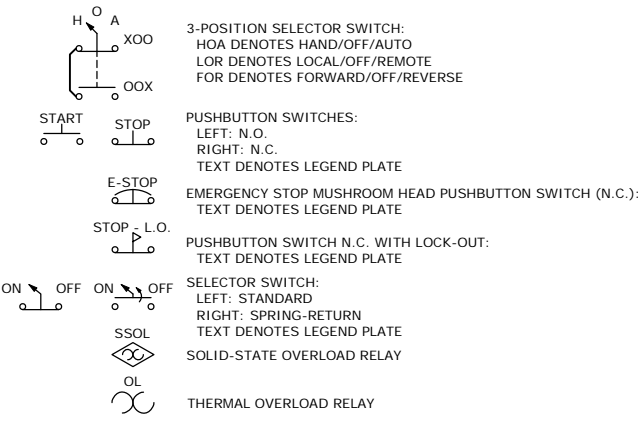
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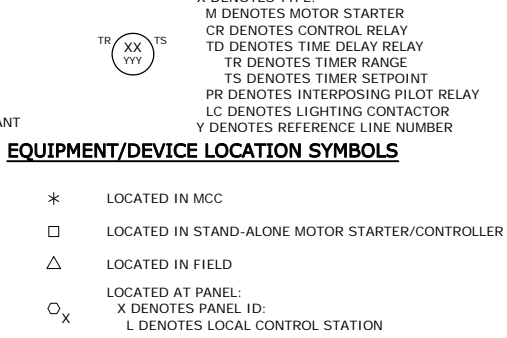
SWITCHES



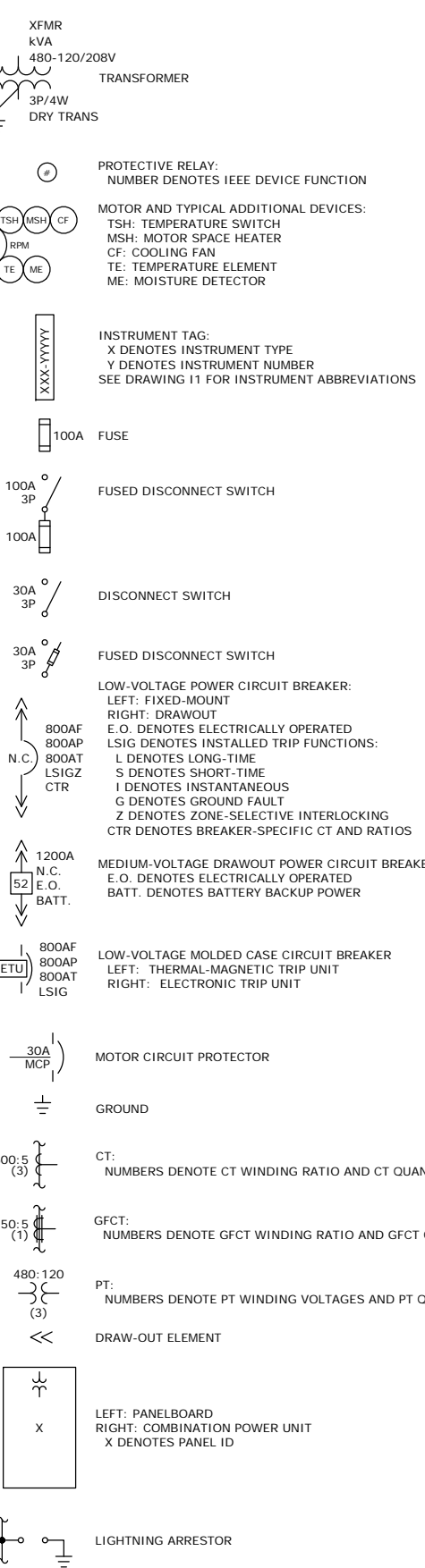
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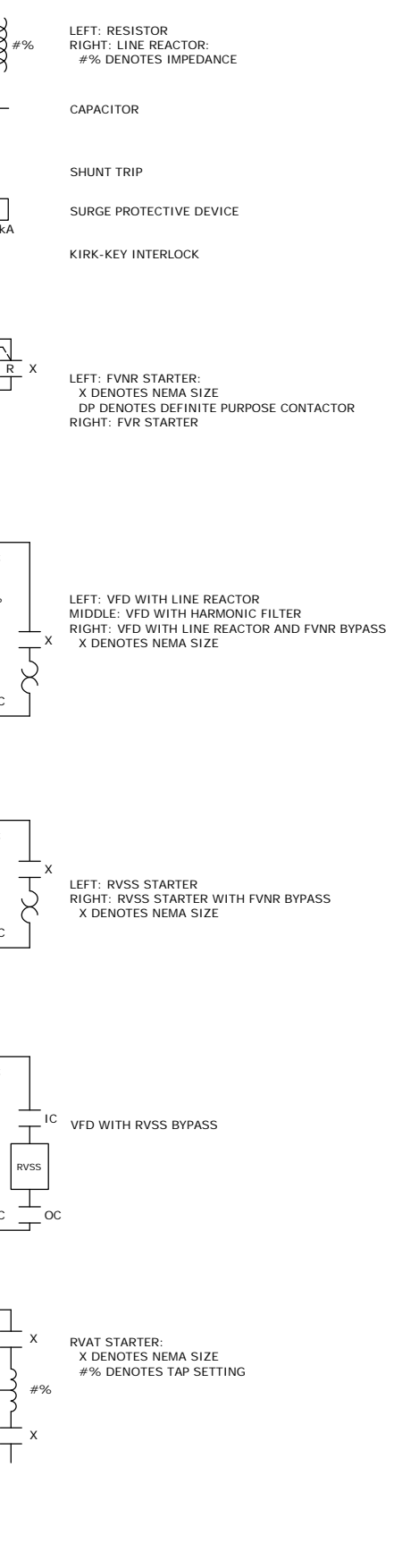
EQUIPMENT/DEVICE LOCATION SYMBOLS



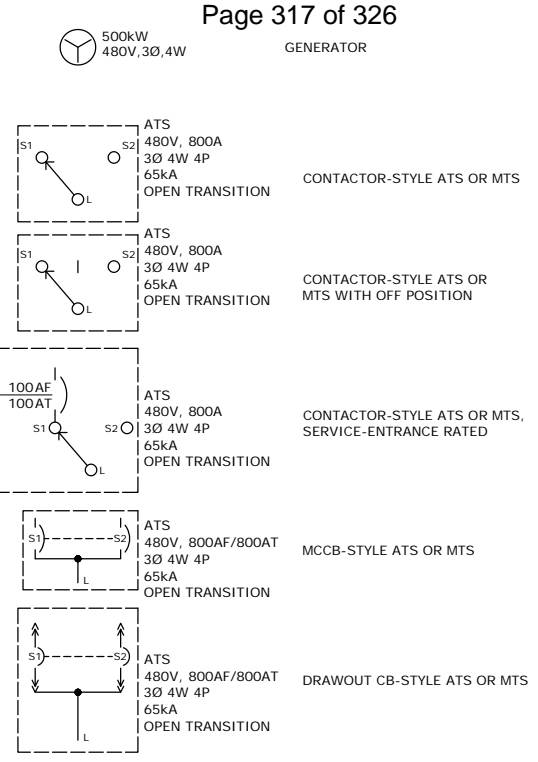
SINGLE-LINE DIAGRAMS



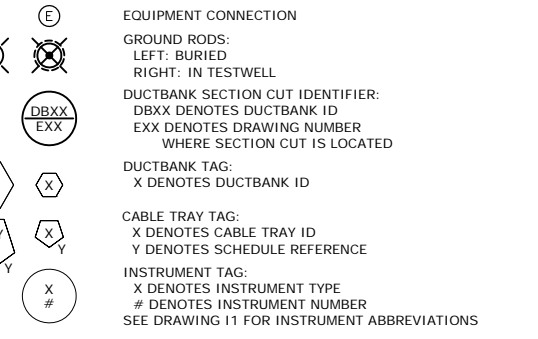
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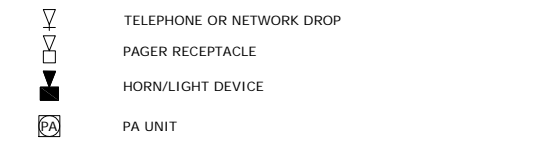
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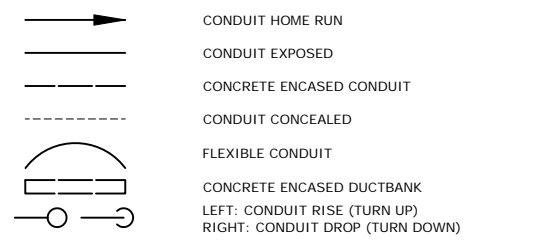
MISC PLAN VIEW SYMBOLS



COMMUNICATIONS



WIRING



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 Date: 12/22/2017 9:55 AM
 Scale: 1:1
 Date: 12/22/2017 9:55 AM

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	B. BUELTEL
DRAWN BY:	S. CHAVEZ
CHECKED BY:	Hazen
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV	ISSUED FOR

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

ELEC SEAL

Hazen

Hazen and Sawyer
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

ALL SITES

ELECTRICAL
LEGENDS AND SYMBOLS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E1

ABBREVIATIONS

AE	ANALYSIS ELEMENT
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATING TRANSMITTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AF	AMPERE FRAME
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BC	BYPASS CONTACTOR
BKR	BREAKER
(L/V)CP	(LOCAL/VENDOR) CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DUCTBANK
DSW	DISCONNECT SWITCH
EHH	ELECTRIC HAND HOLE
EMH	ELECTRIC MANHOLE
EO	ELECTRICALLY OPERATED
ETM	ELAPSED TIME METER
ETU	ELECTRONIC TRIP UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCT	GROUND FAULT CURRENT TRANSFORMER
GNG	GO-NO GO
GND	GROUND
HOA	HAND-OFF-AUTO
HPU	HYDRAULIC POWER UNIT
IC	INPUT CONTACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
JB	JUNCTION BOX
LCS	LOCAL CONTROL STATION
LP	LIGHTING PANEL
LS	LEVEL SWITCH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW-LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH-HIGH
LT	LEVEL TRANSMITTER
MFR	MULTI-FUNCTION RELAY
MH	MANHOLE
MOD	MOTOR OPERATED DAMPER
MOG	MOTOR OPERATED GATE
MOL	MOTOR OPERATED LOUVER
MOV	MOTOR OPERATED VALVE
MPR	MOTOR PROTECTION RELAY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MWTS	MOTOR WINDING TEMPERATURE SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OUTPUT CONTACTOR
OL	OVERLOAD

ABBREVIATIONS, CONT.

PB	PULLBOX
PC	PHOTOCELL
PCC	POINT OF COMMON COUPLING
PE	PRESSURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PP	POWER PANEL
PST	PHASE SHIFTING TRANSFORMER
PT	POTENTIAL TRANSFORMER
PTT	PUSH TO TEST
RCS	REMOTE CONTROL STATION
RECP	RECEPTACLE
RIO	REMOTE I/O
RM	ROOM
RTD	RESISTANCE THERMAL DEVICE
RTU	REMOTE TELEMETRY UNIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
SA	SUPPLY AIR
S.E.	SERVICE ENTRANCE
SP. C.	SPARE CONDUIT
SPD	SURGE PROTECTIVE DEVICE
SST	STAINLESS STEEL
STP	SHIELDED TWISTED PAIR
STT	SHIELDED TWISTED TRIAD
TB	TEST BLOCK
TC	TIMED CLOSE
TO	TIMED OPEN
TSH	TWISTED SHIELDED
TX	TRANSFORMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WPCR	WEATHER PROOF CORROSION RESISTANT
WT	WALK THROUGH
XFMR	TRANSFORMER

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE PER STANDARD DETAIL 1611801.
2. THE INSTALLATION OF ALL CONCRETE ENCASED ELECTRICAL CONDUITS SHALL COMPLY WITH ACI 318, SECTION 6.3. CONTRACTOR SHALL SUPPLY EXPANSION JOINT FITTINGS AS REQUIRED FOR THERMAL EXPANSION AND DEFLECTION.
3. BOND ALL NEW CONCRETE ENCASED GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS IN ALL MANHOLES, PULL BOXES, CABLE TRAYS, AND SIMILAR LOCATIONS WHERE APPLICABLE.
4. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
5. UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR, SLAB, OR GRADE.
6. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL, OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
7. ELECTRICAL SYSTEMS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ART. 500 OF THE LATEST EDITION OF THE NEC. CONTRACTOR SHALL SEAL ALL CONDUITS LEAVING HAZARDOUS AREAS. WALL AND FLOOR OPENINGS SHALL BE SEALED WITH FIREPROOF COMPOUND.
8. ALL EQUIPMENT LOCATED IN HAZARDOUS AREAS SHALL BE SUITABLE FOR THE CLASS, DIVISION, AND GROUP RATING OF THE LOCATION.
9. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED TO ALLOW FOR THE INSTALLATION OF NEW ELECTRICAL DUCTBANKS. AFTER INSTALLATION, REPLACE PAVEMENT WITH NEW TO MATCH ORIGINAL CONDITIONS.
10. LIGHTNING PROTECTION SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 16670.
11. FIRE ALARM SYSTEMS SHALL BE PROVIDED FOR THE STRUCTURES INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SECTION 16721.
12. REFERENCE SECTION 01520 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
13. CONDUIT HOMERUNS ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REFER TO CONDUIT AND WIRE SCHEDULES, RISER DIAGRAMS, SINGLE LINE DIAGRAMS, AND OTHER DRAWINGS FOR CONDUIT AND WIRE REQUIREMENTS.

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DESIGNED BY:	B. BUELTEL		
DRAWN BY:	S. CHAVEZ		
CHECKED BY:	HAZEN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

Hazen
HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

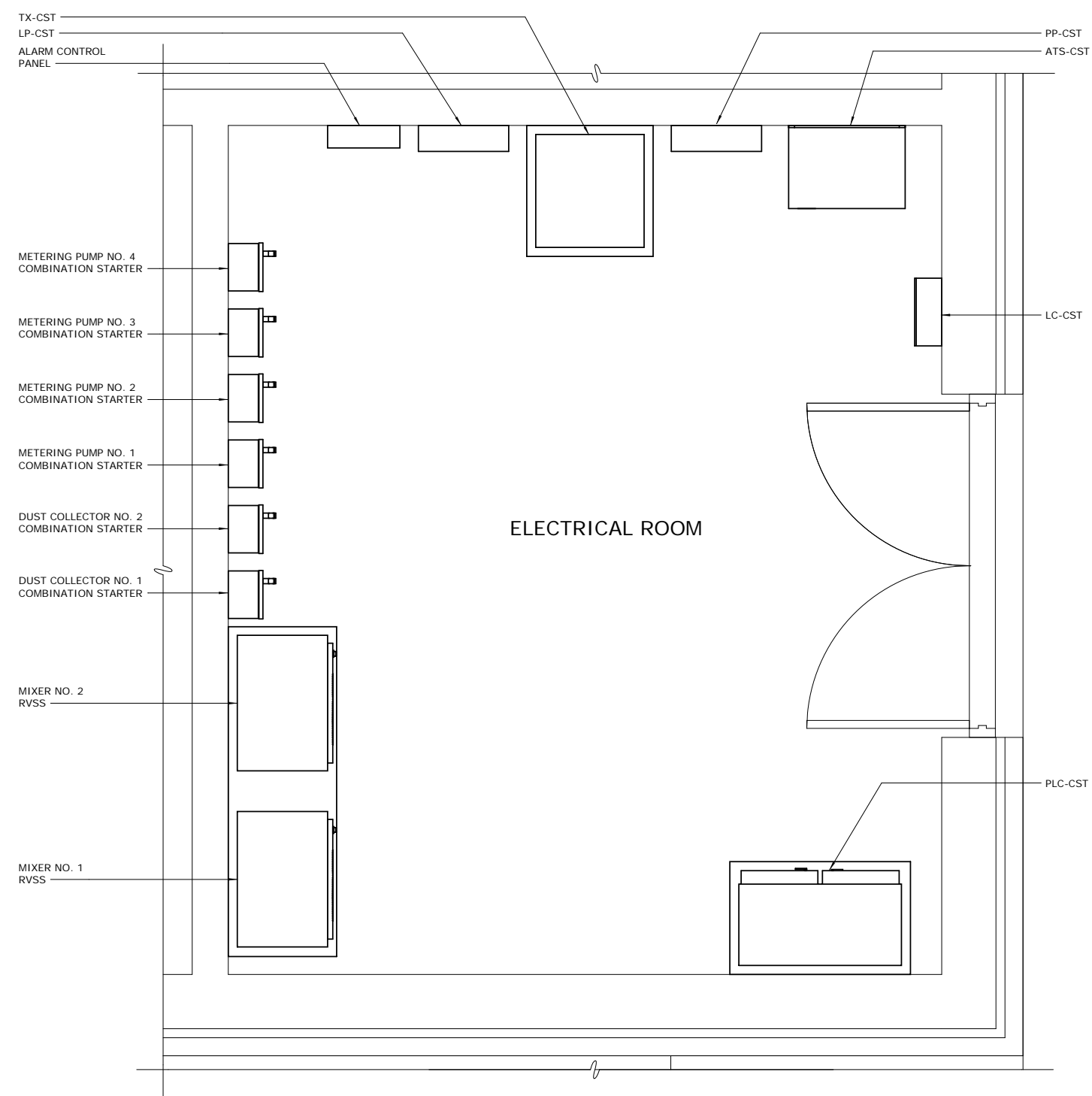
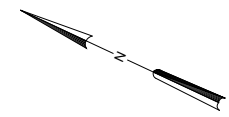
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

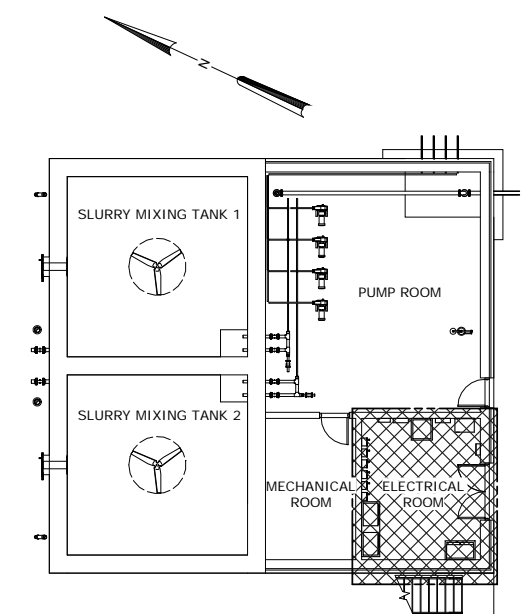
ALL SITES

ELECTRICAL
GENERAL NOTES AND
ABBREVIATIONS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E2



TOP PLAN - POWER
3/4" = 1'-0"



KEY PLAN

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DESIGNED BY:	B. BUELTEL		
DRAWN BY:	S. CHAVEZ		
CHECKED BY:	HAZEN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
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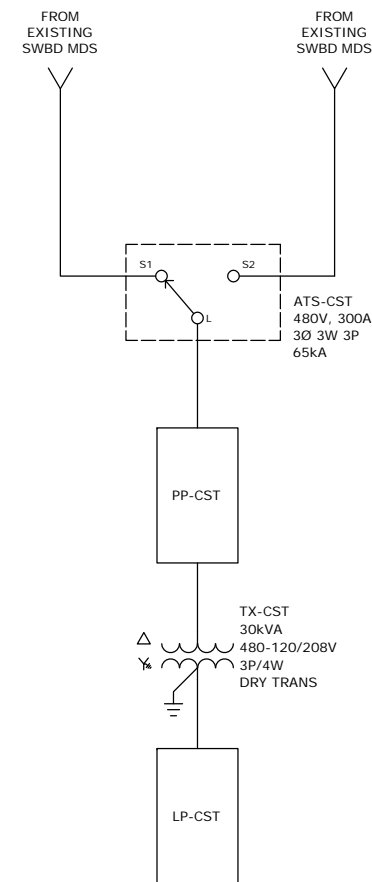
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CONSTRUCTION

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RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
JACOBSON RESERVOIR PUMP STATION

JACOBSON RESERVOIR PUMP
STATION
ELECTRICAL
CARBON SLURRY TANKS

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	E100



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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	B. BUELTEL
DRAWN BY:	S. CHAVEZ
CHECKED BY:	HAZEN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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CONSTRUCTION

ELEC SEAL

Hazen

HAZEN AND SAWYER
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RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

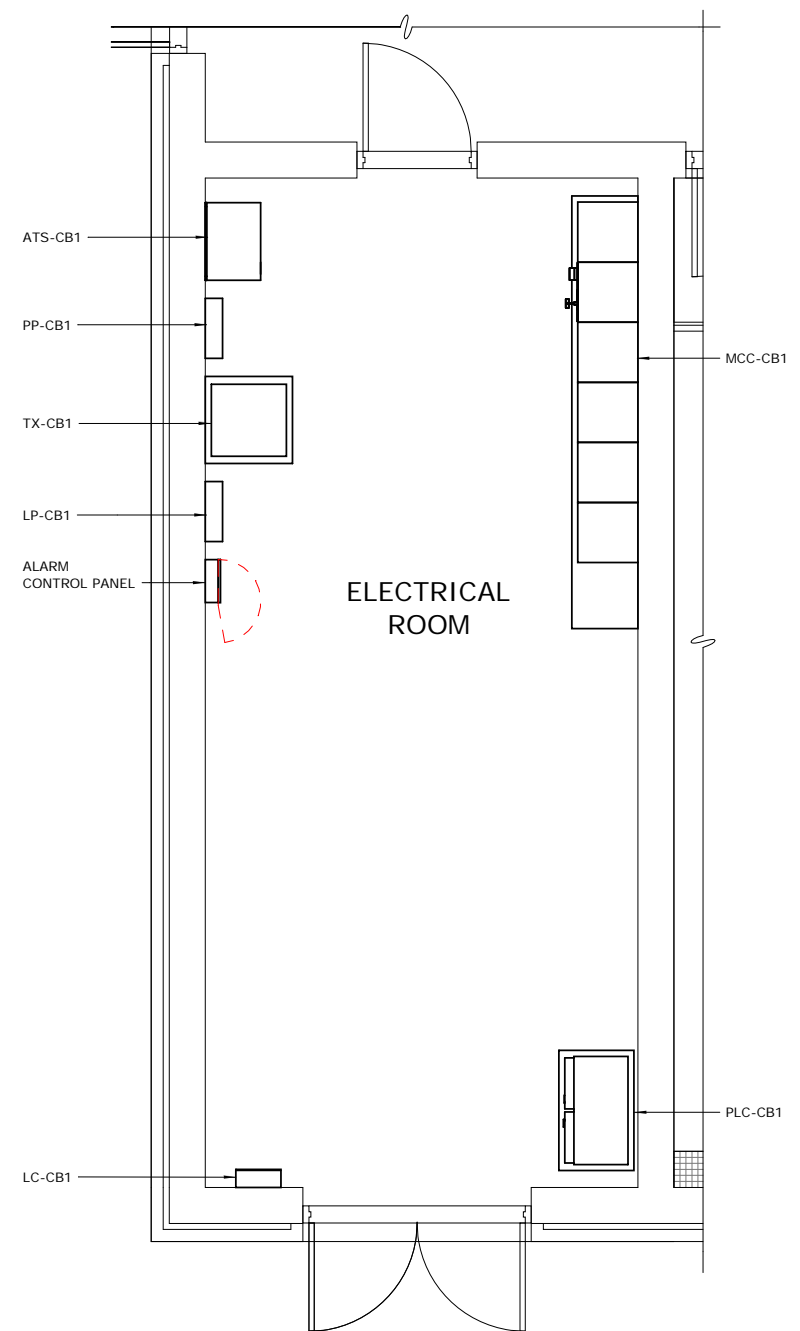
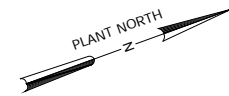
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

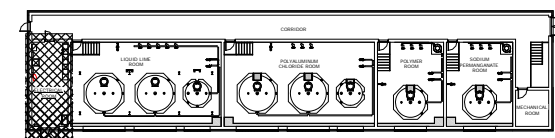
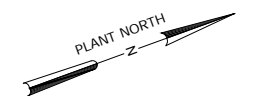
JACOBSON RESERVOIR PUMP STATION

CHEMICAL BUILDING
ELECTRICAL
SINGLE LINE DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E101



TOP PLAN - POWER
3/8" = 1'-0"



KEY PLAN

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DESIGNED BY:	B. BUELTEL		
DRAWN BY:	S. CHAVEZ		
CHECKED BY:	HAZEN		
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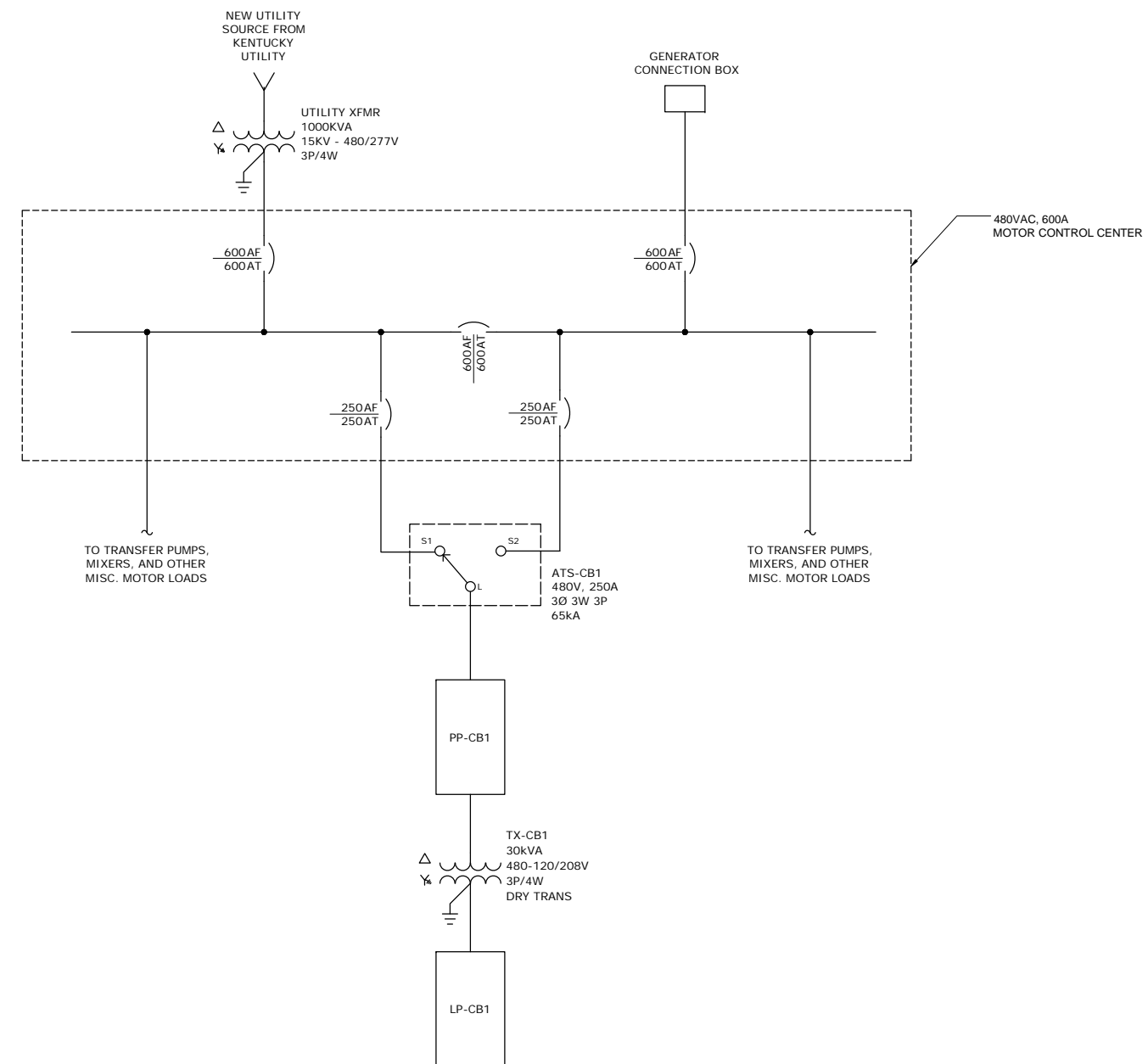
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CONSTRUCTION

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HAZEN AND SAWYER
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RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

RICHMOND ROAD STATION
ELECTRICAL
CHEMICAL BUILDING No. 1

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	E200



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PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	B. BUELTEL
DRAWN BY:	S. CHAVEZ
CHECKED BY:	HAZEN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	
REV	ISSUED FOR
	DATE
	BY

BASIS OF DESIGN REPORT
 DO NOT USE FOR
 CONSTRUCTION

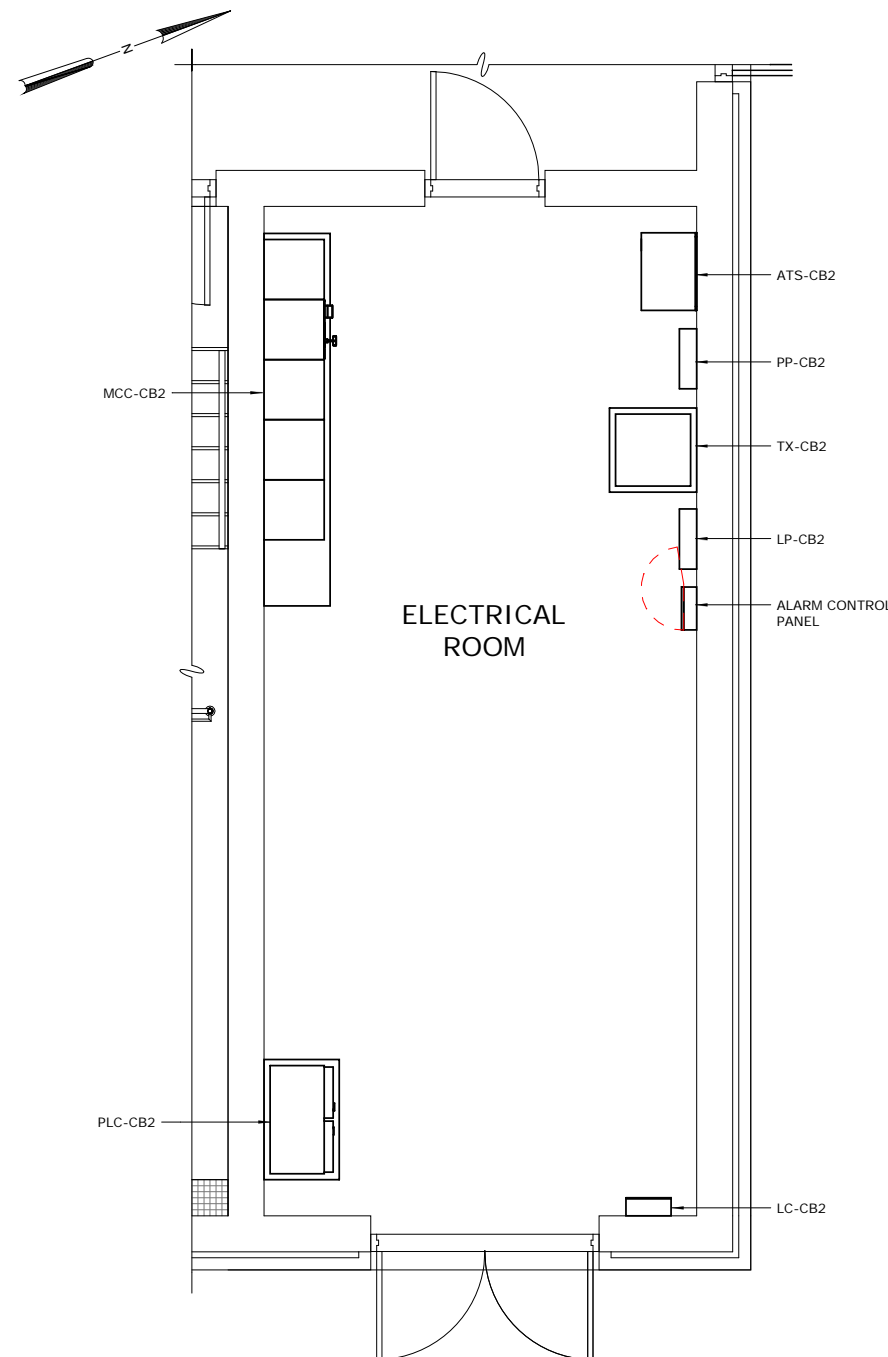
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HAZEN AND SAWYER
 4011 WESTCHASE BOULEVARD, SUITE 500
 RALEIGH, NORTH CAROLINA 27607
 LICENSE NO. : C-0381

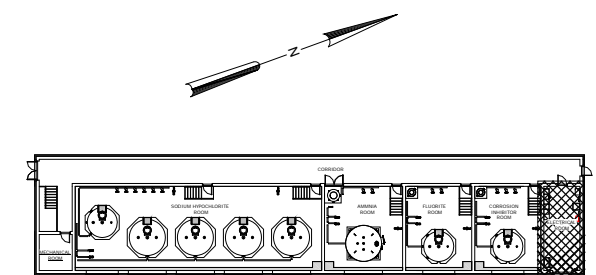
KENTUCKY AMERICAN WATER
 LEXINGTON, KENTUCKY
 RRS AND KRS-1 CHEMICAL
 IMPROVEMENTS PROJECT
 RICHMOND ROAD STATION

CHEMICAL BUILDING NO. 1
 ELECTRICAL
 SINGLE LINE DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E201



TOP PLAN - POWER
3/8" = 1'-0"



KEY PLAN

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PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	B. BUELTEL		
DRAWN BY:	S. CHAVEZ		
CHECKED BY:	HAZEN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
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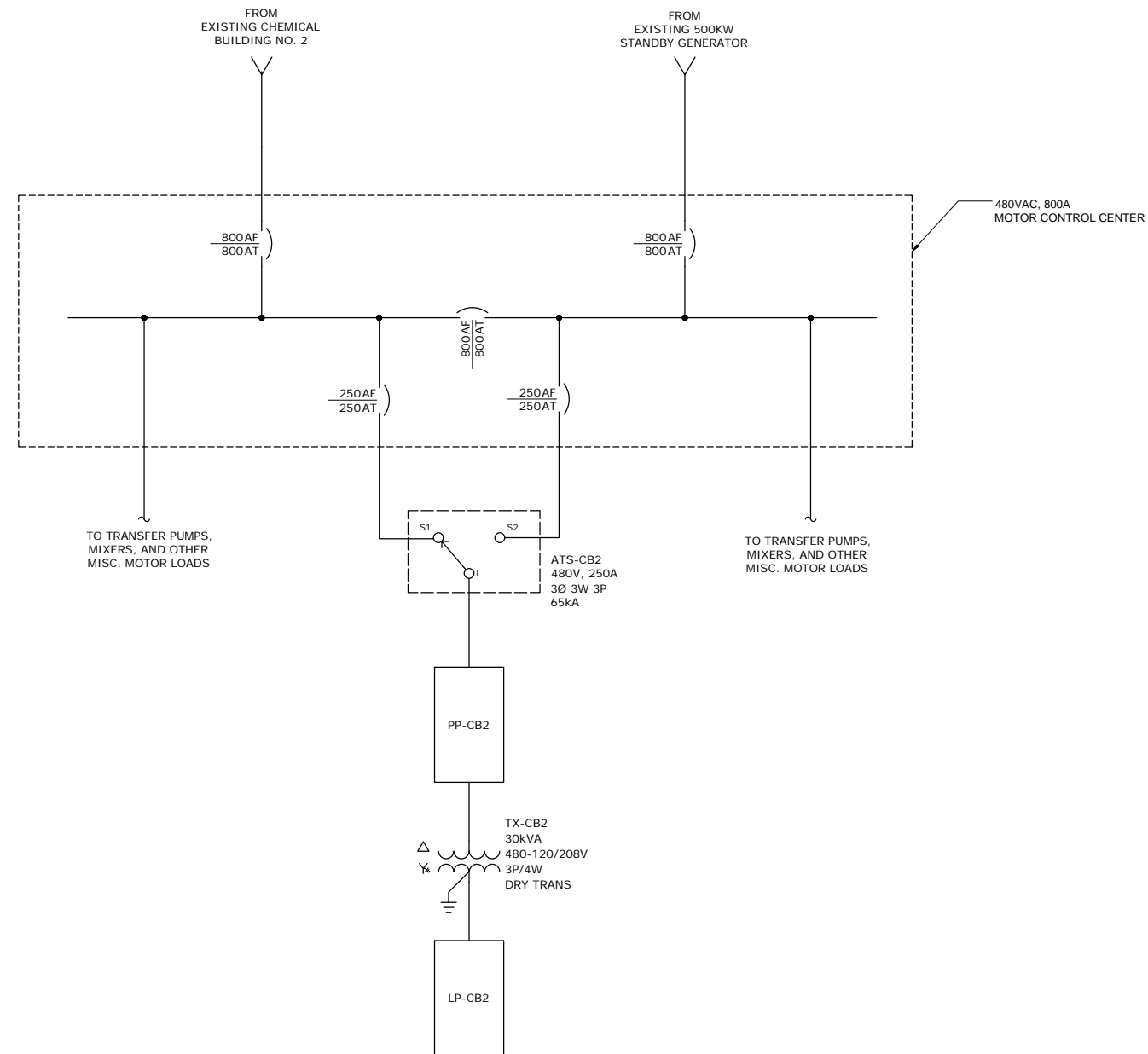
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HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY
RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT
RICHMOND ROAD STATION

RICHMOND ROAD STATION
ELECTRICAL
CHEMICAL BUILDING No. 2

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	E220



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REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	B. BUELTEL
DRAWN BY:	S. CHAVEZ
CHECKED BY:	HAZEN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

ELEC SEAL

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

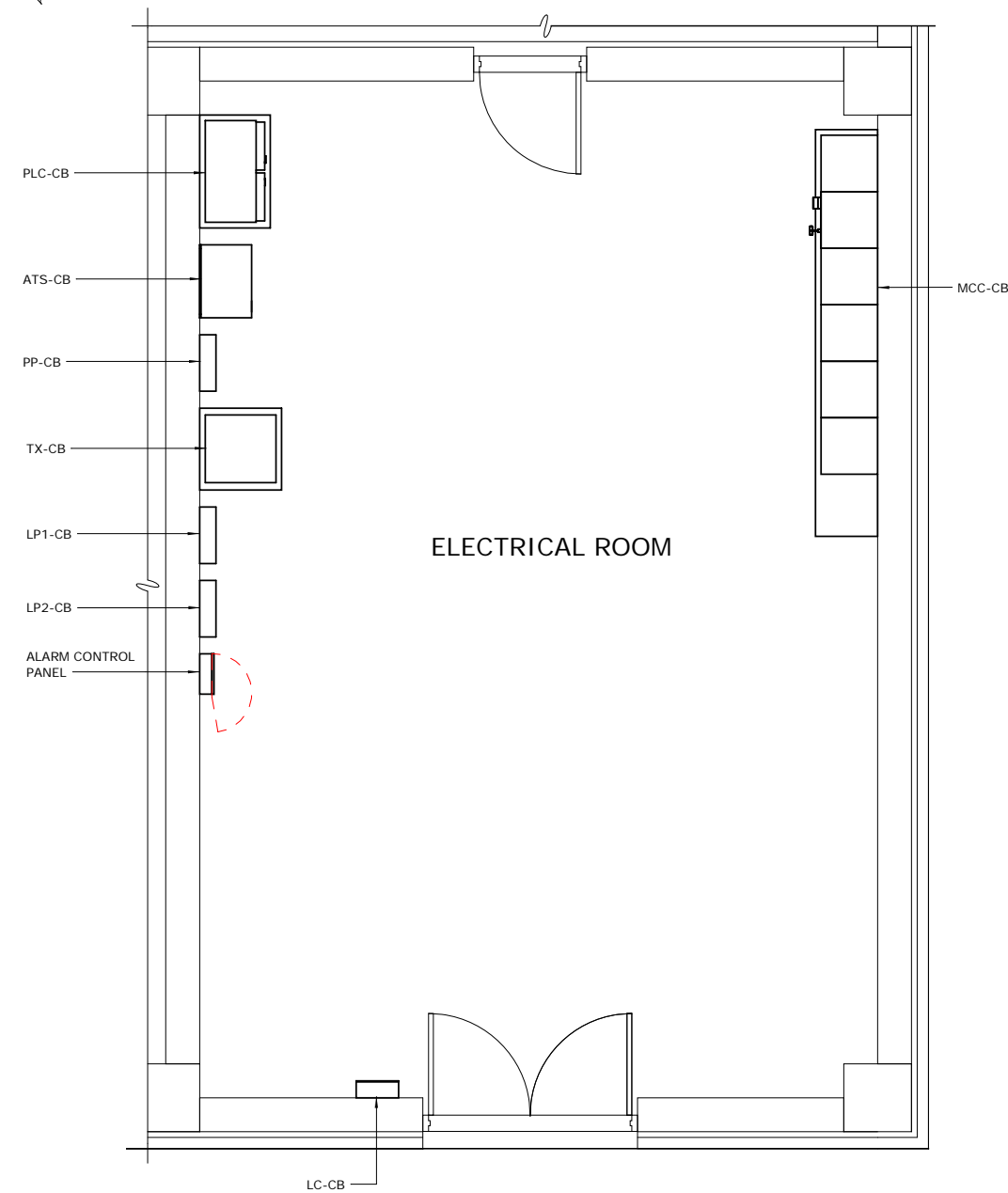
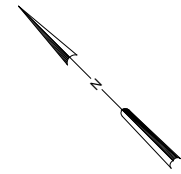
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

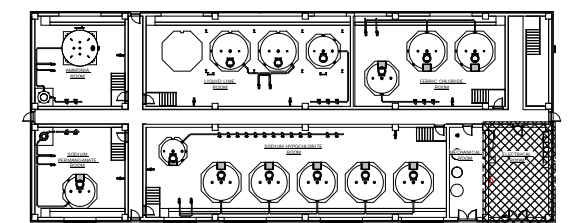
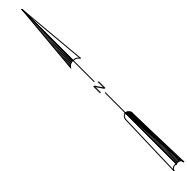
RICHMOND ROAD STATION

CHEMICAL BUILDING NO. 2
ELECTRICAL
SINGLE LINE DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E221



TOP PLAN - POWER
3/8" = 1'-0"



KEY PLAN

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PROJECT ENGINEER:	D. LALIBERTE		
DESIGNED BY:	B. BUELTEL		
DRAWN BY:	S. CHAVEZ		
CHECKED BY:	HAZEN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE			
REV	ISSUED FOR	DATE	BY

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

Hazen

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4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

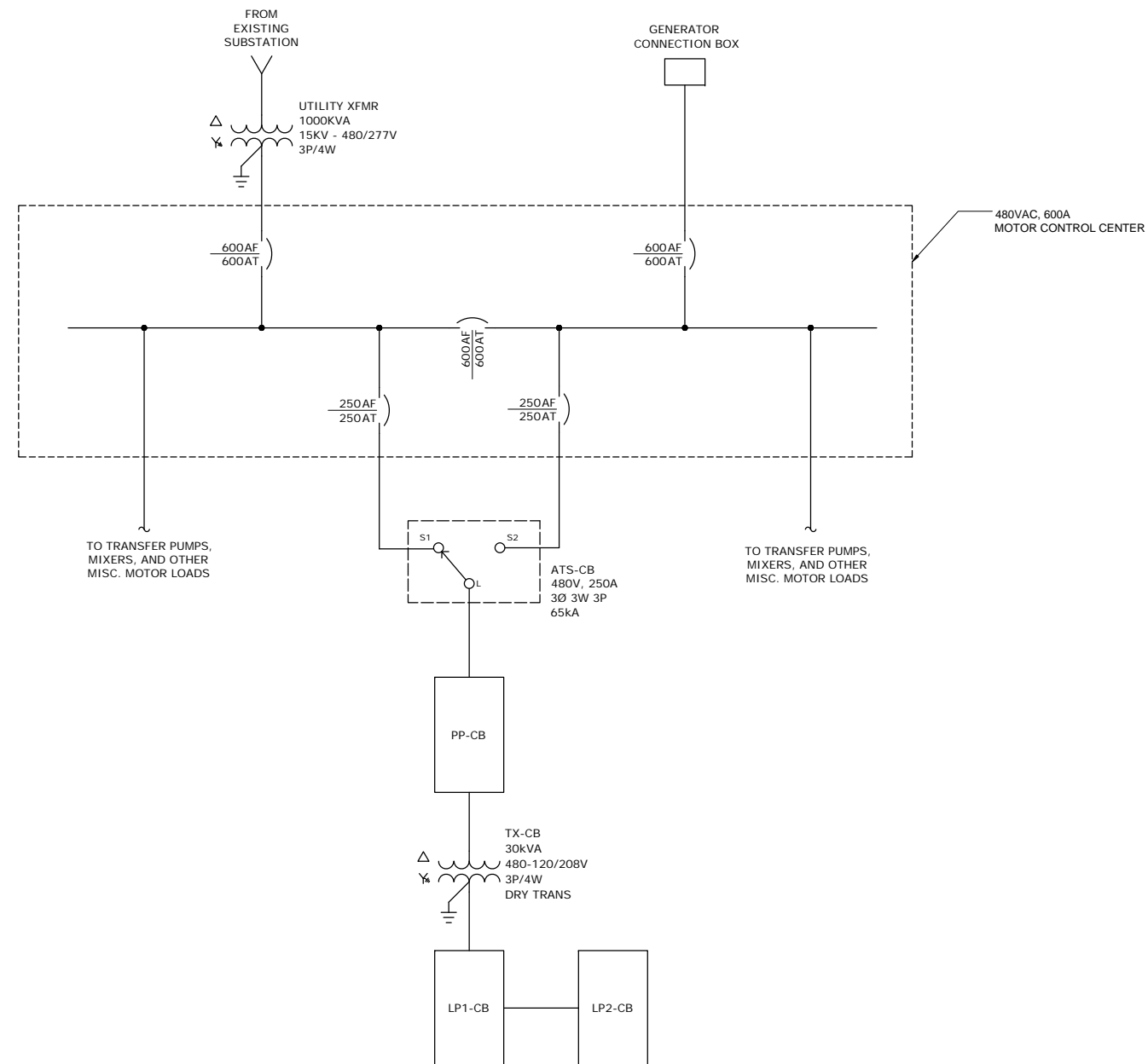
KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

KENTUCKY RIVER STATION 1
ELECTRICAL
CHEMICAL BUILDING

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	1
KYAW NO.:	123456-7890
DRAWING NUMBER:	E300



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REV	ISSUED FOR	DATE	BY

PROJECT MANAGER:	D. LALIBERTE
DESIGNED BY:	B. BUELTEL
DRAWN BY:	S. CHAVEZ
CHECKED BY:	HAZEN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

BASIS OF DESIGN REPORT
DO NOT USE FOR
CONSTRUCTION

ELEC SEAL

Hazen

HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD, SUITE 500
RALEIGH, NORTH CAROLINA 27607
LICENSE NO. : C-0381

KENTUCKY AMERICAN WATER
LEXINGTON, KENTUCKY

RRS AND KRS-1 CHEMICAL
IMPROVEMENTS PROJECT

KENTUCKY RIVER STATION 1

CHEMICAL BUILDING
ELECTRICAL
SINGLE LINE DIAGRAM

DATE:	DECEMBER 2017
HAZEN NO.:	50084-009
CONTRACT NO.:	01
KYAW NO.:	123456-7890
DRAWING NUMBER:	E301

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

- 70.** Please refer to the testimony of Paul R. Herbert in Case No. 2015-00418 dated January 29, 2016 and the testimony of Constance F. Happenstall in the case at hand, No. 2018-00358 dated November 28, 2018.
- (a) Explain in detail how and why the sum of the monthly costs for a 5/8-inch meter increased from \$14.85 to \$19.67, a nearly 33% increase.'
 - (b) Did you use any different methodology in preparing your cost-of-service study than was used in preparing the cost-of-service study prepared by Paul R. Herbert, referenced above?

Response:

- (a) Please see the attached comparison of customer costs from the prior cost of service to the present cost of service. There are differences between the cases in each account which make up customer costs. In addition, in this case, the Company has included costs related to readiness-to-service in the calculation of the monthly service charge which were not included in the calculation in Case No. 2015-00418.
- (b) Please see the Company's response to Commission Staff's Second Request for Information, item 79.

KENTUCKY-AMERICAN WATER COMPANY

COMPARISON OF CUSTOMER COSTS

Cost Function (1)	Case No. 2018-00358 Cost of Service* (2)	Case No. 2015-00418 Cost of Service* (3)	Difference (4)
Meters	\$ 11,802,094	9,796,558	2,005,536
Services	2,865,763	4,448,795	(1,583,032)
Billing & Collecting	8,638,779	9,362,059	(723,280)
Unrecovered Public Fire	374,952	242,851	132,101
Readiness to Service - Mains	8,899,394	-	8,899,394
Total	\$ 32,580,982	\$ 23,850,263	\$ 8,730,719

* Schedule F of Exhibit 36.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

71. Please refer to the testimony of Constance E. Heppenstall in this matter. Please refer to line 4, page 3. What is the meaning of "income available for return?"

Response:

Income available for Return is another term for Utility Operating Income as found on Company Schedule C-1.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

72. Please refer to the cost-of-service study located in Exhibit 36 to the application.

- (a) Please provide the definition of "Public Authority."
- (b) Has the definition changed between 2015 and the present?
- (c) Please list all entities which take service under the category "Public Authority."

Response:

- (a) Sales to municipal, county, state or federal agencies (other than sales of water for resale) whether or not such sales are at special contract rates. Examples under this category are: city buildings, public schools, libraries and hospitals, fire stations, county, state and federal buildings and agencies, and public housing developments.
- (b) No.
- (c) See (a).

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
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FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

73. Why does LFUCG take service from the Class designation “private fire” in addition to “public fire?”

Response:

LFUCG takes public fire service for public fire hydrants. LFUCG also takes private fire service for fire service lines. The private fire service designation is applicable to both private and public entities who have fire service lines with hose connections or sprinkler systems and these are charged by the size of the line. Please see the attachment to Lexington-Fayette Urban County Government’s First Request for Information, item 2, for a listing of LFUCG’s private fire service premises. Please also see Exhibit 1 of the Company’s application in this proceeding, which shows the Company’s current tariff. The definitions of various fire services are shown on First Sheet No. 5.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

74. What is the difference between the private fire and public fire classes?

Response:

See response to LFUCG 1-73.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

75. Please provide the authority to support KAWC's position that all fire hydrants are only billed a demand charge?

Response:

Fire hydrants do not have metering capability, and thus are billed on a flat rate.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall / Melissa L. Schwarzell

76. Who made the decision to increase the demand charges on public fire hydrants a greater percentage than private fire hydrants and when was that decision made?

Response:

It was a Company decision. As is shown on Schedule A of Exhibit 36 column 3, the cost of service for the Private Fire class is 2.8% of the total cost of service. Revenue from present rates for this class currently make up 3.1% of total revenue, more than its share of cost of service (column 5). Therefore, Ms. Heppenstall recommended a lower increase (13%) than the overall increase for the Private Fire class so that this class' revenue under proposed rates moves toward cost of service. The revenue under proposed rates is 2.9% of total revenue, closer to this class' total cost of service of 2.8% (column 7).

For the Public Fire class, the opposite is true. The cost of service for the Public Fire class is 4.6% of the total cost of service (column 3). Revenue for this class under present rates equals 4.2% of total revenue (column 5), or less than cost of service of 4.6% (column 3). In order not to move away from cost of service, the Public Fire class rates were increased based on the total increase or 23.2%.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

77. Please state why on Schedule C, Page 20 of 22 of the Cost-of-Service Study, account 335.0, Fire Hydrants, there is no allocation of rate base to Private Fire Protection but \$16,374,383 to Public Fire Protection?

Response:

Account 335.0, Fire Hydrants, is allocated to Public Fire Protection only, because these hydrants were paid for by the Company. Whereas, Private Fire Hydrants are paid for by the customer through CIAC and the cost of service model reduces the value of Account 335.0 by CIAC.

**KENTUCKY-AMERICAN WATER COMPANY
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LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

78. Please refer to Schedule E, Page 1 of 1, on Page 42 of 47 of the Cost-of-Service Study. Why are the diameters of the water lines squared?

Response:

The diameter of the lines is squared in order to calculate the relative flow through each fire service line or hydrant.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Constance E. Heppenstall

- 79.** Please state why the increase in rates for Public Authorities exceeded the system's average proposed increase by 24.9% to 22.4% for the system average? In answering this DR, please refer to the specific pages and exhibits of the Cost of Service study.

Response:

As is shown on Schedule A of Exhibit 36 column 3, the cost of service for the Public Authorities class is 6.8% of the total cost of service. Revenue from present rates for this class currently make up 6.7% of total revenue (column 5), less than its share of cost of service. Therefore, Ms. Heppenstall recommended a higher increase (24.9%) than the overall increase for the Public Authorities class so that this class' revenue under proposed rates moves toward cost of service. The revenue under proposed rates is 6.8% of total revenue (column 7), equal to this class' total cost of service of 6.8%.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Patrick L. Bayrenbruch

80. Refer to the testimony of Patrick Baryenbruch at page 3, line 18. Did Mr. Baryenbruch compare KAWCs cost-per-customer for its Service Company in relation to any other water utilities? If not, why not?

Response:

No, Mr. Baryenbruch does not compare service company charges to water utility affiliates in his cost comparison because there is no publicly available source of data for water service companies. Few water companies have a centralized service company arrangement. Those that do are not overseen by a single regulatory authority that requires standard informational filings as does the FERC for the electric utility industry. If a similar source existed for water service companies, Mr. Baryenbruch would have included them in his cost-per-customer comparison.

The vast majority of test year Service Company charges to KAWC are for administrative and general (A&G)-related services. These are the expenses that are benchmarked by Mr. Baryenbruch. His experience has shown that A&G services involve similar process across different types of utilities. A&G functions include the following:

- Executive Management
- Legal
- Human Resources
- Audit Services
- Finance
- Accounting
- Taxes
- Budgeting and Reporting
- Information Technology
- Supply Chain
- Rates and Regulatory
- External Affairs/Corporate Communications
- Customer Services

Utility service companies provide these services in a similar way and, therefore, valid cost comparisons can be made across utility industry types.

Take, for instance, accounting services. Regardless of utility type, the work of accountants revolves around their assigned set of general ledger accounts; they ensure

transactions have been processed and properly posted to their accounts, reconcile accounts to subsidiary ledgers, prepare journal entries, compile budget versus actual data, research variances and prepare cost performance reports for operating managers. These activities take place in water utilities in the same way as in electric utilities.

Investor-owned utilities of any type have similar processes for tax accounting and compliance. They all have to deal with federal and state income, property, sales and use taxes. In general, tax personnel are responsible for determining tax provisions and preparing and filing various tax returns.

Information technology services cover a broad range of activities that are also generally quite similar among utilities. Employees are provided with workstations, email, Microsoft Office, phone service, internet connections and access to financial, human resources and various other corporate applications. Many of the same applications are used by different utilities. For example, American Water uses the enterprise resource planning system called SAP. My electric utility clients Dominion Energy and Southern California Edison use the same system. Another similar system is PowerPlant, a project and asset accounting system used by American Water and by my electric utility client Duke Energy.

Information technology hardware and software is operated and maintained in the same way regardless of utility type. Application systems run on the utility's own data center or on a cloud service provider. They are operated and maintained by the utility's IT organization or by an outside service provider. Thus, American Water's data center provides the same type of services as the data centers of electric service companies.

The processes and activities associated with delivering other A&G services, such as legal, procurement, human resources, customer services and executive management are likewise similar among different types of utilities.

For all these reasons, Mr. Baryenbruch believes his comparison provides a valid and useful way to put into perspective the A&G-related charges from American Water's service company compared to the cost of other utility service companies.

**KENTUCKY-AMERICAN WATER COMPANY
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LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Patrick L. Bayrenbruch

- 81.** Refer to the testimony of Patrick Baryenbruch at page 6, line 8 at which Mr. Baryenbruch refers to neighboring utilities. Please identify what neighboring utilities this references.

Response:

Mr. Baryenbruch refers to neighboring utilities on page 7 of his testimony in connection with his comparison of KAWC's customer accounts services costs to certain utilities in Kentucky and surrounding states. The comparison group, shown in the table below, consists of electric and combination electric/gas utilities that file a Form 1 with the Federal Energy Regulatory Commission. The FERC Form 1 provides detailed cost information necessary to calculate customer accounts services costs per customer which can be compared to those of KAWC. Customer accounts services include activities such as customer contact, billing and payment processing. They are similar regardless of utility type.

Kentucky	<ul style="list-style-type: none"> • Duke Energy Kentucky • Kentucky Power 	<ul style="list-style-type: none"> • Kentucky Utilities • Louisville Gas & Electric
Virginia	<ul style="list-style-type: none"> • Appalachian Power 	<ul style="list-style-type: none"> • Virginia Electric Power
Ohio	<ul style="list-style-type: none"> • Cleveland Elect Illuminating • Dayton Power & Light • Duke Energy Ohio 	<ul style="list-style-type: none"> • Ohio Edison • Ohio Power • Toledo Edison
Indiana	<ul style="list-style-type: none"> • Duke Energy Indiana • Indiana Michigan Power • Indianapolis Power & Light 	<ul style="list-style-type: none"> • No. Indiana Public Service • Vectren
Tennessee	<ul style="list-style-type: none"> • Kingsport Power 	
Illinois	<ul style="list-style-type: none"> • Ameren Illinois • Commonwealth Edison 	<ul style="list-style-type: none"> • MidAmerica Energy
Missouri	<ul style="list-style-type: none"> • Ameren Missouri • Empire District Electric 	<ul style="list-style-type: none"> • Kansas City Power & Light
West Virginia	<ul style="list-style-type: none"> • Appalachian Power • Monongahela Power 	<ul style="list-style-type: none"> • Potomac Edison • Wheeling Power

**KENTUCKY-AMERICAN WATER COMPANY
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LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Patrick L. Bayrenbruch

82. Refer to the testimony of Patrick Baryenbruch and the related study. Explain how Mr. Baryenbruch can verify that the services provided by comparison utilities' Services Companies are similar to the services provided by American Water's Service Company?

Response:

Some services provided by comparison group service companies are different than those provided by American Water Works Service Company to KAWC. Many of the comparison group service companies provide operations and maintenance services related to electric generation, transmission and distribution. The cost of these services is excluded from Mr. Baryenbruch's comparison because they relate to activities completely different from water utility operations and maintenance.

Mr. Baryenbruch only benchmarks administrative and general (A&G) expenses. He compares the cost of American Water's Service Company A&G services to those of electric and electric/gas utility service companies. A&G services include the following:

- Executive Management
- Legal
- Human Resources
- Audit Services
- Finance
- Accounting
- Taxes
- Budgeting and Reporting
- Information Technology
- Supply Chain
- Rates and Regulatory
- External Affairs
- Customer Services

These are the services American Water's Service Company provides to KAWC. They are commonly provided by other utility service companies to their regulated affiliates for many reasons including economies of scale, continuity of service, maintenance of enterprise-wide guidance, improved support and employee retention. Mr. Baryenbruch knows this based on the following factors:

- Experience with Utility Service Companies – Many of the comparison group utility companies have been past clients of Mr. Baryenbruch. Of the 24 utility companies in the A&G cost comparison, the service company and/or regulated utilities of 13 (AEP, Avangrid, CenterPoint, Dominion, Duke, Entergy, Eversource, Exelon, FirstEnergy, National Grid, NiSource, PPL and WEC) have been clients of Mr. Baryenbruch over the course of his career.

In the past, Mr. Baryenbruch has compared services provided by utility service companies. The table below shows such an analysis prepared from information in the 2017 FERC Form 60 for several comparison group utility companies. It is evident from this table that the great majority of A&G services are provided by these utility service companies. Again, these are the same A&G services that American Water's Service Company provides to KAWC.

		Service Company Provides						
		AEP	Duke	Entergy	Eversource	Exelon	FirstEnergy	PPL
Service Company Services								
Excluded from Baryenbruch's Cost Comparison	Utility System Operations							
	Generation	X	X	X	X		X	
	Transmission	X	X	X	X	X	X	
	Distribution	X	X	X	X		X	
Included in Baryenbruch's Cost Comparison	Executive/Management	X	X	X	X	X	X	X
	Legal	X	X	X	X	X	X	X
	Human Resources	X	X	X	X	X	X	X
	Audit Services	X	X	X	X	X	X	X
	Financial Services							
	Finance	X	X	X	X	X	X	X
	Accounting	X	X	X	X	X	X	X
	Taxes	X	X	X	X	X	X	X
	Information Technology	X	X	X	X	X	X	X
	Supply Chain	X	X	X	X	X	X	X
	Rates and Regulatory	X	X	X	X	X	X	
	External Affairs	X	X	X	X	X	X	
	Customer Services	X	X	X	X		X	

Source: FERC Form 60 (2017); Baryenbruch & Company, LLC, analysis

- Experience with Affiliate Transactions – Mr. Baryenbruch has performed over 100 assignments related to utility affiliate transactions for 37 regulated utility clients doing business in 17 states. Most of these engagements involved service company charges to regulated utility clients for whom Mr. Baryenbruch acted as an expert witness in a rate case proceeding. This work required him to understand the nature of services provided by affiliate service companies to his regulated clients. Based on this experience, Mr. Baryenbruch is able to conclude that there is a similar core set of A&G services that are provided by services companies to utilities of different types.

- Knowledge of Utility Industry Information Systems – For nearly 20 years, Mr. Baryenbruch provided consulting assistance to utility clients on IT-related matters. For one utility client, Mr. Baryenbruch was a member of the management team for 20 major information technology projects totaling over 800,000 hours of work involving hundreds of client employees and contractors. He holds two IT-related certifications: Certified Information Technology Professional and Certification in Information Security.

His work in IT has shown that different types of utilities use the same systems for A&G functions such as accounting, human resources, taxes and supply chain. For instance, Mr. Baryenbruch's client Dominion Energy, a utility holding company with regulated electric and gas businesses, uses SAP, the same enterprise resources planning system used by American Water. His clients AEP, Duke Energy and Nova Scotia Power use PowerPlant, the asset management system also used by American Water. These IT systems have standard workflows that result in uniform business processes for A&G services provided by service companies. This uniformity translates into comparability of A&G services from one service company to another.

- General Utility Industry Experience – For almost 40 years, Mr. Baryenbruch has served the utility industry either as a public accounting or management consulting professional. His assignments covered every functional area and every type of utility—water, electric, gas and telephone. His utility assignments range from independent evaluations such as commission-ordered management audits to the implementation of improvement initiatives. This significant experience provides Mr. Baryenbruch with in-depth knowledge of the utility industry with which to recognize the comparability of A&G services provided by service companies.

**KENTUCKY-AMERICAN WATER COMPANY
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LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Patrick L. Bayrenbruch

83. Refer to the testimony of Patrick Baryenbruch and page 2 of his study. Why would it be difficult for KAWC to find local service provides with the same specialized experience?

Response:

The Service Company has over 1,200 employees who serve American Water's regulated utilities with over 3.3 million customers and operations in 15 states. This is a considerable source of water industry expertise upon which KAWC is able to draw.

There is generally not such a concentration of similar water industry expertise available to operating utilities from local outside service providers. This can be demonstrated by looking at the number of Service Company employees for larger functional areas, as listed below. These employees work exclusively on water industry matters and are available to support American Water's operating utilities.

- Finance – 183
- IT – 123
- Human Resources – 106
- Legal – 53

An added benefit in KAWC using the Service Company is that the Service Company staff is exclusively dedicated to supporting American Water operating utilities. Local outside professionals generally have multiple clients they serve at any one time.

Service companies are commonplace within utility holding companies that operate in multiple states because the arrangement is the lowest cost alternative for utility customers. On page 3 of his report, Mr. Baryenbruch indicates that by consolidating executive and professional services into a single service company, utility holding companies are abler to realize the following benefits for customers:

- Purchasing Economies – Common expenses (e.g., insurance, chemicals, piping) can be procured on a much larger scale, thereby providing greater bargaining power for the combined entity compared to individual utility operating companies. A service company facilitates enterprise-wide purchasing programs through its procurement and contract administration functions.
- Operating Economies of Scale – A service company is able to deliver services more efficiently because workloads can be balanced across more persons and facilities. For instance, American Water's Service Company is able to maintain one principal data center for the entire organization. This is much more cost-efficient than each

operating utility funding its own data center with large fixed hardware, software and staffing costs.

- Continuity of Service – Centralizing service company personnel who perform similar services facilitates job cross-training and sharing of knowledge and expertise. This makes it easier to deal with staff turnover and absences and to sustain high levels of service to operating utilities. An individual operating utility might experience considerable disruption if a key professional left and it were necessary to hire outside to fill the vacancy.
- Maintenance of Enterprise-Wide Guidance – Personnel in American Water’s Service Company establish guidance for many functions (e.g., engineering designs, operating procedures and maintenance practices). It is easier to align operating utility operations because their implementation is supported by the Service Company.
- Improved Support and Guidance – American Water’s Service Company provides another dimension of management and financial support and guidance that supplements local operating utility management. The Service Company facilitates standard planning and reporting, which helps ensure that operating utilities meet the requirements of their customers in a cost-effective manner.
- Retention of Personnel – A service company organization provides operating utility personnel with another career path beyond what may be available on a local level. These opportunities tend to improve employee retention.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell/Kevin N. Rogers

84. Refer to the testimony of Melissa Schwarzell at page 28-29.

- (a) Provide a copy of the asset purchase agreement between KAWC and North Middletown.
- (b) Identify the purchase price of the North Middletown system.
- (c) Identify the net book value of the North Middletown system and the date of valuation.
- (d) Explain how the net book value of the North Middletown system identified above was determined.
- (e) What inadequate facilities that must be restored to required standards has KAWC identified for the North Middletown system, what will be the cost to restore each facility, and when does KAWC plan to perform that restoration work?

Response:

- a. Please see the attachment.
- b. The purchase price for the water assets of North Middletown is \$1,175,509. This includes net book value adjusted for an EPA off-books project, plus payback of grants to Rural Development and the EPA as follows:

Water Asset Portion of APA Purchase Price	Rural Development Grant Payback	Estimated EPA Grant Payback	Total Purchase Price with Grant Payback
\$985,553	\$159,190	\$30,766	\$1,175,509

- c. The net book value of the water assets for the North Middletown water system that is being purchased by KAWC is \$929,841, inclusive of a 2007 off-books project and grant paybacks (which adjust the amount of CIAC). The date of the valuation is 12/31/18.

Net Book	Adjustment for 2007 Off-Books Project	Estimated Grant Payback (Rural Development and EPA)	Total Net Book Value
\$657,285	\$82,601	\$189,956	\$929,841

- d. The valuation of the water assets identified in part (c) above were provided to KAWC by North Middletown. The details provided include utility plant assets, accumulated depreciation and net CIAC. The estimated grant paybacks are based on discussions with Rural Development and the EPA.
- e. At this time, KAW has not identified any significant expenditures necessary to restore facilities to required standards. Current expected improvements are ones for efficiencies, integration, and to meet our own internal standards. The cost for these improvements is expected to be approximately \$150,000 in total. This is comprised of approximately \$75,000 for new meters to be installed in February 2019 and approximately \$75,000 for SCADA communication equipment to be complete by the end of 2019.

ASSET PURCHASE AGREEMENT

This **Asset Purchase Agreement** ("Agreement") is made and entered into this 30th day of October, 2018 ("Effective Date") by and between **Kentucky-American Water Company**, a Kentucky public utility corporation ("Buyer"), and **the City of North Middletown**, ("Seller"). Hereinafter, the Buyer and Seller may be individually referred to as a "party" or jointly as the "parties".

RECITALS:

A. Seller owns and operates a water and sewer system which provides potable water and sewer services to customers located within its service area (the "Service Area") (collectively referred to as the "Business").

B. Buyer currently provides professional water treatment plant and distribution guidance services to Seller.

C. Buyer desires to acquire and Seller desires to sell the Assets of Seller relating to the Business pursuant to the terms and conditions of this Agreement.

D. Seller recognizes the need to access quality technical expertise which is necessary to upgrade, maintain, and operate its water and wastewater systems; and

E. Seller cannot make the substantial investment necessary to maintain compliance with current and future water quality regulations and to meet increasing customer demands without an unreasonable increase in water rates; and

F. Seller believes that its costs to effectively address these water quality and supply problems would be far greater than Buyer's costs.

G. Buyer possesses the financial, technical and operational resources to direct investments and manage operations to minimize costs and maximize quality of service by meeting all water quality regulations; and

H. Seller's customer's will immediately benefit from Buyer's ownership of Seller's water and wastewater system as experienced water quality, distribution system operations, engineering, and management will direct personnel and investment to address supply and water quality issues, a level of expertise not available to Seller;

I. Seller has considered its alternatives and has concluded that a long-term partnership arrangement with Buyer is the most logical, least costly approach to delivering water and wastewater service.

NOW, THEREFORE, in consideration of the foregoing recitals and the covenants contained herein and in exchange for other consideration the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ARTICLE 1
Definitions and Related Matters

For purposes of this Agreement and all documents executed in connection with this Agreement, the capitalized terms shall have the meanings assigned to them herein or in Schedule 1 and the rules of construction set forth in Schedule 1 shall govern.

ARTICLE 2
Purchase and Sale of Assets; Closing

2.1 Transfer and Description of Assets. Subject to and upon all other terms and conditions of this Agreement, effective as of the Effective Time on the Closing Date, Seller shall sell, convey, transfer, assign and deliver to Buyer free and clear of all Encumbrances, and Buyer shall acquire from Seller, all of Seller's right, title and interest in and to all of Seller's assets, other than the Excluded Assets, regardless of where located, which are, could be, or in the future would be part of the treatment, transmission and distribution systems utilized to provide water service to Seller's water customers and the treatment, transmission and distribution systems used to provide sewer service to Seller's sewers customers, including but not limited to the following:

(a) all Real Property including any easements, rights-of-way or rights granted to the Seller in furtherance of the operation of the Business including but not limited to that described in Schedule 3.4;

(b) all Tangible Personal Property, as defined in Schedule 1 Definitions.

(c) all data and Records related to Seller's operation of the Business, including, but not limited to, the customer list which shall include the service and billing address of all customers of the Seller and, subject to applicable Law, copies of all Records described in Section 2.2(b);

(d) all Permits and all pending applications therefore, renewals thereof or exemptions therefrom which are necessary or advisable in the operation of Seller's Business, including but not limited to those listed in Schedule 3.8; and

(e) all of the intangible rights and property of Seller utilized by Seller in the operation of the Business.

All of the foregoing shall be hereinafter referred to collectively as the "Assets".

2.2 Excluded Assets. Notwithstanding anything to the contrary contained in Section 2.1 or elsewhere in this Agreement, the following Assets of Seller are not part of the sale and purchase contemplated hereunder, are excluded from the Assets, and shall remain the property of Seller after the Closing:

(a) all insurance policies and rights thereunder;

(b) all personnel Records and other Records that Seller is required by Law to retain in its possession;

(c) all office furniture and equipment, including computers, used in the operation of the Business;

(d) all rights in connection with and assets of the employee benefit plans and employment or independent contractor Contracts;

(e) all rights of Seller under the Transaction Documents;

(f) cash, cash equivalents and short-term investments;

(i) the assets listed on Schedule 2.2;

(j) accounts receivable arising prior to the Effective Time; and

(k) Customer Service Connections, which shall remain the property of the customer.

(l) all trucks, tractors, and mowers.

All of the foregoing shall be hereinafter referred to collectively as the "Excluded Assets".

2.3 Consideration. The consideration for the Assets (the "Purchase Price") will be the sum of **One Million Three Hundred Thousand Three Hundred Two Dollars (\$1,300,302)**. The Assets shall be in substantially the same condition, absent normal wear and tear, and fully able to perform the functions they are intended to at the time of Closing. If any of the Assets are not able to perform the function they are intended to, the Buyer, at its option, may request an adjustment to the purchase price to compensate for the deterioration or loss of said Asset. In the event the parties are not able to agree to the amount of the adjustment, the adjustment amount shall be the amount necessary to return the Asset to the condition it was in on the Effective Date of this Agreement.

2.4 Liabilities. The Buyer shall not be responsible for any of the Liabilities of Seller, including any that may arise after Closing, and any such Liabilities shall remain the sole responsibility of and shall be retained, paid, performed and discharged solely by Seller.

2.5 Closing. The purchase and sale provided for in this Agreement will take place at a location and time of day agreed upon by the parties (the "Closing"). The date of the Closing shall be no earlier than February 1, 2019 or at such later date as is agreed upon by the parties. Closing shall be effective as of 5:00 pm local time (the "Effective Time") on the actual date of Closing (the "Closing Date").

2.6 Closing Obligations.

(a) At or prior to Closing, Seller shall deliver to Buyer the following documents, duly executed:

(i) a Bill of Sale for all of the Assets that are Tangible Personal Property in a form reasonably acceptable to Buyer;

(ii) an assignment of all of the Assets that are intangible personal property in a form reasonably acceptable to Buyer;

(iii) for each interest in Real Property identified on Schedule 3.4, a recordable general warranty deed or such other appropriate document or instrument of transfer or approval, as the case may require, each in form and substance satisfactory to Buyer and its legal counsel. Notwithstanding the fact that the same may not be listed on Schedule 3.4, Seller must provide easements or other transferable property rights to Buyer for all mains used in the Business, which are not located on or in public rights-of-way, and must provide assignments of public rights-of-way Permits with only those conditions acceptable to Buyer for all mains located in municipal, county or state owned public rights-of-way;

(iv) such other deeds, bills of sale, assignments, certificates of title, documents and other instruments of transfer and conveyance as may be reasonably requested by Buyer, each in form and substance satisfactory to Buyer;

(v) a certificate as to the accuracy of Seller's representations and warranties as of the Effective Date of this Agreement and as of Closing in accordance with Section 5.1(a) and as to its compliance with and performance of its covenants and obligations to be performed or complied with at or before Closing in accordance with Section 5.1(b);

(vi) a certificate of the Clerk-Treasurer of Seller, dated as of the Closing, certifying: (A) that attached are true copies of the duly adopted resolutions of the Seller's governing body authorizing the execution of this Agreement and the sale of all Assets; and (B) the incumbency, signatures and authority of the governing body members of Seller executing this Agreement or any agreement contemplated hereby on behalf of Seller;

(vii) a general release in a form reasonably acceptable to Buyer;

(viii) a legal opinion of Seller's legal counsel, affirmatively opining to such matters as Buyer or its legal counsel may reasonably request, including but not limited to the due authorization and execution of this Agreement by Seller and the enforceability thereof; and the Seller's compliance with any applicable Kentucky statutes or regulations applicable to its sale of its municipally owned water and sewer utility systems;

(ix) a Non-Foreign Seller's Affidavit as required by Section 1445 of the Internal Revenue Code of 1986;

(x) affidavits or certificates as may be reasonably required by the title insurance company for purposes of issuing the policy of title insurance to be provided to Buyer for the Real Property including, but not limited to, an affidavit stating that there are no parties in possession of the Real Property other than Seller and that there is no sum owing to any person(s) or entity for work done or material furnished on the Real Property, and that there are no materialmans or mechanics liens that exist or that have been filed against the Real Property that have not been paid in full.

(b) At or prior to Closing, Buyer shall deliver to Seller, the following documents, duly executed, or funds:

(i) The Purchase Price, by wire transfer or other immediately available funds, to an account specified by the Seller;

(ii) a certificate as to the accuracy of Buyer's representations and warranties as of the Effective Date of this Agreement and as of Closing in accordance with Section 5.2(a) and as to its compliance with and performance of its covenants and obligations to be performed or complied with at or before Closing in accordance with Section 5.2(b);

(iii) a certificate of the company secretary of Buyer, dated as of the Closing, certifying: (A) that attached are true copies of the duly adopted resolutions of the Buyer's board of directors authorizing this Agreement and the purchase of all Assets; and (B) the incumbency, signatures and authority of the officer or officers of Buyer executing this Agreement or any agreement contemplated hereby on behalf of Buyer; and

(iv) a certificate of existence issued by the Secretary of State of Kentucky with respect to Buyer, dated not earlier than thirty (30) days prior to Closing.

ARTICLE 3 Representations and Warranties of Seller

Seller hereby makes the following representations and warranties to Buyer:

3.1 Organization. Seller is a municipal corporation duly organized and validly existing under the Laws of the State of Kentucky, with full power and authority to conduct the Business as it is now being conducted and to own and operate its Assets.

3.2 Enforcement; Authority; No Conflict.

(a) This Agreement constitutes, and the Transaction Documents (when executed and delivered) will constitute, a legal, valid and binding obligation of Seller, enforceable against Seller in accordance with its terms. Seller has the absolute and unrestricted right, power and authority to execute and deliver this Agreement and the Transaction Documents to which it is a party and to perform its obligations hereunder and thereunder, and such action has been duly authorized by all necessary action by Seller's governing body;

(b) Neither the execution and delivery of this Agreement nor the consummation of the Contemplated Transaction will, directly or indirectly (with or without notice or lapse of time):

(i) contravene, conflict with, or result in a violation of: (A) any ordinance of Seller; or (B) any resolution adopted by the governing body of Seller;

(ii) contravene, conflict with, or result in a violation of or give any Governmental Authority or other Person the right to challenge any of the Contemplated Transaction or to exercise any remedy or obtain any relief under any Laws or any Order to which Seller or any of the Assets may be subject;

(iii) contravene, conflict with or result in a violation of any of the terms or requirements of or give any Governmental Authority the right to revoke, withdraw, suspend, cancel, terminate or modify any Permit or other authorization by a Governmental Authority that is held by Seller or that otherwise relates to the Business or any of the Assets;

(iv) contravene, conflict with or result in a violation or breach of any provision of, require the Consent of any Person, or give any Person the right to declare a default or exercise any remedy under or to accelerate the maturity or performance of or to cancel, terminate or modify any Contract, indenture, mortgage, note, lease, bond, grant, or other instrument or document of which Seller is a party or by which any of the Assets are bound; or

(v) result in the imposition or creation of any Encumbrance upon or with respect to any of the Assets, except as contemplated by this Agreement.

3.3 Assets. Seller has good and marketable title to all of the Assets. The Assets are free and clear of any and all Encumbrances whatsoever, including any liens, loans, bonds or grants from any federal or state agency for the purchase or construction of the Assets. None of the Assets are leased or on loan by Seller to any third party. The Assets constitute all property necessary for the operation of the Business in the manner Seller currently operates.

3.4 Real Property; Easements. To Seller's best knowledge and belief, Seller has good and marketable title to, or a valid and binding leasehold interest in, those parcels and tracts of land and those leases, licenses, easements or rights-of-way used in the operation of the Business, together with all fixtures, fittings, buildings, structures and other improvements erected therein or thereon and all appurtenances thereto (the "Real Property"). The Real Property includes but is not necessarily limited to the property described in Schedule 3.4.

3.5 Tangible Personal Property. Tangible Personal Property is all such property as defined in Schedule 1, Definition of Tangible Personal Property.

3.6 Contracts. Set forth on Schedule 3.6 is a complete and correct list of all Contracts related to the Business to which Seller is a party. Seller has delivered or caused to be delivered to Buyer correct and complete copies of each Contract (including all amendments thereto), a description of the terms of each Contract which is not in writing, and all documents affecting the rights or obligations of any party thereto. The Contracts have not been modified or amended except as disclosed on Schedule 3.6. Each Contract is valid and enforceable against Seller in accordance with its terms and is in full force and effect, and each Contract constitutes a legal, valid and binding obligation of the other parties thereto, enforceable against them in accordance with its terms. No default and no event which, with the giving of notice, lapse of time, or both, would be a default has occurred under any Contract. There are no setoffs, counterclaims or disputes existing or asserted with respect to such Contracts, and Seller has not made any agreement with any other party thereto for any deduction from or increase to any amount payable thereunder. There are no facts, events or occurrences which in any way impair the validity or enforcement of any Contract or tend to reduce or increase the amounts payable thereunder. Seller has not, directly or indirectly, by operation of Law or otherwise, transferred or assigned all or any part of its right, title or interest in and to any Contract to any other Person. There are no Proceedings pending nor threatened against any party to any of the Contracts which relate to the subject matter of the Contracts.

3.7 Environmental Matters.

Except as set forth on Schedule 3.7(a):

(a) Seller is and at all times has been in full compliance with and has not been and is not in violation of or liable under any applicable Environmental Law. Seller has no basis to expect nor has it received any actual or threatened Order, notice or other communication from any Governmental Authority or private citizen acting in the public interest of any actual or potential violation or failure to comply with any Environmental Law or of any actual or threatened obligation to undertake or bear the cost of any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest or with respect to the Real Property or any other real property at or to which Hazardous Materials were generated, manufactured, refined, transferred, imported, used or processed by Seller or any other Person for whose conduct it is or may be held responsible, or from which Hazardous Materials have been transported, treated, stored, handled, transferred, disposed, recycled or received.

(b) There are no pending or threatened claims, Encumbrances or other restrictions of any nature, resulting from any Environmental, Health and Safety Liabilities or arising under or pursuant to any Environmental Law with respect to or affecting the Assets or any other properties (whether real, personal or mixed) in which Seller has or had an interest.

(c) Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has received any citation, directive, inquiry, notice, Order, summons, warning or other communication that relates to Hazardous Activity, Hazardous Materials or any alleged, actual or potential violation or failure to comply with any Environmental Law or of any alleged, actual or potential obligation to undertake or bear the cost of any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest or with respect to any other real property to which Hazardous Materials generated, manufactured, refined, transferred, imported, used or processed by Seller or any other Person for whose conduct it is or may be held responsible, have been transported, treated, stored, handled, transferred, disposed, recycled or received.

(d) Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller (or any predecessor) has or has had an interest or at any property geologically or hydrologically adjoining the Assets or any other properties (whether real, personal or mixed).

(e) There are no Hazardous Materials present on or in the Environment at the Real Property or at any geologically or hydrologically adjoining property, including any Hazardous Materials contained in barrels, above or underground storage tanks, landfills, land deposits, dumps, equipment (whether moveable or fixed) or other containers, either temporary or permanent and deposited or located in land, water, sumps or any other part of the Real Property or such adjoining property or incorporated into any structure therein or thereon. Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has permitted or conducted, or is aware of, any Hazardous Activity conducted with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest except in material compliance with all applicable Environmental Laws.

(f) There has been no Release or threat of Release, of any Hazardous Materials at or from the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest, or any geologically or hydrologically adjoining property, whether by Seller or any other Person.

(g) Seller has delivered to Buyer true and complete copies and results of any reports, studies, analyses, tests or monitoring possessed or initiated by Seller pertaining to Hazardous Materials or Hazardous Activities in, on or under the Real Property, or concerning compliance by Seller or any other Person for whose conduct it is or may be held to be responsible, with Environmental Laws, said reports, studies, etc. to include without limitation, any and all Phase I environmental reports now or hereafter in the possession or control of Seller.

3.8 Permits. Set forth on Schedule 3.8 is a complete and correct list of all Permits used by Seller in the operation of the Business. Such Permits constitute all Permits necessary for the operation of the Business and all such Permits are valid and subsisting and in full force and effect. There exists no fact or circumstance which is reasonably likely to cause any Permit to be revoked or materially altered after the Closing Date.

3.9 Insurance. Seller maintains and has maintained appropriate insurance necessary for the full protection of all of its Assets, Business, operations, products and services. All such policies are in full force and effect and Seller will use commercially reasonable efforts to cause such policies to be outstanding and in full force and effect up to the Effective Time on the Closing Date and the premiums therefor have been paid in full as they become due and payable. There are no pending Proceedings arising out of, based upon or with respect to any of such policies of insurance and no basis for any such Proceedings exists which will result in an Encumbrance against the Assets, Business, operations, products or services. Seller is not in default with respect to any provisions contained in any such insurance policies and no insurance provider is in default with respect to such insurance policies.

3.10 No Material Adverse Change. There have been no material adverse changes in the Business or Assets nor has there been any material adverse change in the relationships Seller maintains with its customers, employees and Governmental Authorities nor are there any events, transactions or other facts which exist or have occurred and which are likely to have an adverse effect on the foregoing.

3.11 Conduct of Business In Ordinary Course. Seller has operated the Business only in the ordinary course of business. Without limitation of the foregoing, since such date, Seller has not entered into, amended, terminated or received notice of termination of any Contract or Permit.

3.12 Proceedings. Other than as set forth on Schedule 3.12, there are no Proceedings pending or threatened against Seller or directly affecting any of the Assets or the Business by or on account of any Person or before any Governmental Authority and there is no valid basis for any such Proceeding. Seller has not been charged with, nor is it under investigation with respect to any charge which has not been resolved to their favor concerning any violation of any applicable Law with respect to any of the Assets or the Business and there is no valid basis for any such charge or investigation. No judgment, Order, writ, injunction, decree, assessment or other command of any Governmental Authority affecting Seller or any of the Assets or the Business has been entered which is presently in effect. There is no Proceeding pending or threatened which challenges the validity of this Agreement or the Contemplated Transaction or otherwise seeks to prevent, directly or indirectly, the consummation of the Contemplated Transaction, nor is there any valid basis for any such Proceeding.

3.13 Compliance with Laws. Seller is in compliance with all Laws applicable to the Assets and the operation of the Business and has not committed any violation of any Law applicable to the Assets and/or operation of the Business. Seller has not received any notice or other communication (whether oral or written) from any Governmental Authority or any other Person regarding (i) any actual, alleged, possible or potential violation of, or failure to comply with, any Law or (ii) any actual, alleged, possible or potential obligation on the part of Seller to undertake, or to bear all or any portion of the cost of, any remedial action of any nature. The Assets, in their current condition, are capable of complying with all Laws.

3.14 Material Omissions. Independent of and in addition to the foregoing representations and warranties contained in this Article 3, neither this Agreement nor any written statement, list, certificate or other information furnished by or on behalf of Seller in response to specific written requests made by Buyer or Buyer's representatives or attorneys contains an untrue statement of a material fact or omits to state a material fact necessary to make the statements contained herein or therein not misleading.

ARTICLE 4

Representations and Warranties of Buyer

Buyer hereby makes the following representations and warranties to Seller:

4.1 Organization. Buyer is a duly organized and validly existing public utility corporation under the Laws of the State of Kentucky and at Closing has the power and authority to own, lease and operate its assets and to conduct this Business as it is now being conducted.

4.2 Enforcement; Authority; No Conflict.

(a) This Agreement constitutes the legal, valid and binding obligation of Buyer, enforceable against Buyer in accordance with its terms. Buyer has the absolute and unrestricted right, power and authority to execute and deliver this Agreement and the Transaction Documents to which it is a party and to perform its obligations hereunder and thereunder, and such action has been duly authorized by all necessary action by Buyer's board of directors.

(b) Neither the execution and delivery of this Agreement, nor the consummation of the Contemplated Transaction nor compliance by Buyer with any of the provisions hereof will result in: (i) a violation of or a conflict with any provision of the Organizational Documents of Buyer; (ii) a material breach of or default under any term, condition or provision of any Contract to which Buyer is a party, or an event which, with the giving of notice, lapse of time, or both, would result in any such breach or default; (iii) a material violation of any applicable Law, Order, judgment, writ, injunction, decree or award or any event which, with the giving of notice, lapse of time, or both, would result in any such violation; or (iv) any Person having the right to enjoin, rescind or otherwise prevent or impede the Contemplated Transaction or to obtain Damages from Seller or to obtain any other judicial or administrative relief.

4.3 Proceedings. There is no Proceeding pending nor, to the Knowledge of Buyer, threatened which challenges the validity of this Agreement or the Contemplated Transaction or otherwise seeks to prevent, directly or indirectly, the consummation of such transactions, nor, to the Knowledge of Buyer, is there a valid basis for any such Proceeding.

ARTICLE 5
Conditions Precedent to Closing

5.1 Conditions Precedent to the Obligations of Buyer. Buyer's obligations to consummate the Contemplated Transaction are subject to the satisfaction in full, unless expressly waived in writing by Buyer, of each of the following conditions:

(a) Representations and Warranties. Each of the representations and warranties of Seller contained in Article 3 is true, correct and accurate from the Effective Date of this Agreement and as of the Closing Date shall be true, correct and accurate as though restated on and as of such date (except in the case of any representation and warranty that by its terms is made as of a date specified therein, which shall be accurate as of such date);

~~(b) Covenants. Seller shall have performed and complied with all covenants required by this Agreement to be performed or complied with by them prior to or at the Closing;~~

(c) Proceedings. No Order shall be in effect and no Proceeding by any Person shall be threatened or pending before any Governmental Authority, or before any arbitrator, wherein an unfavorable Order would: (i) prevent consummation of the Contemplated Transaction; (ii) have a likelihood of causing the Contemplated Transaction to be rescinded following consummation; (iii) adversely affect the right of Buyer to own any of the Assets; or (iv) adversely affect the Business prospects, value or condition of any of the Assets or the Business;

(d) Approvals. Buyer shall have received prior to Closing: (i) an Order from the Public Service Commission (PSC) allowing the adoption of Seller's water rates for the provision of water service to North Middletown's customers existing at the time of Closing and allowing the adoption of Seller's wastewater rates existing at the time of Closing for the provision of wastewater service to North Middletown's customers; and ii) all other regulatory approvals required by any Governmental Authority to operate the Business within the Service Area.

(e) Sale for Resale Agreement. Buyer shall assume North Middletown's existing sale for resale agreement with Judy Water or Buyer shall have obtained a new executed sale for resale agreement with Judy Water Association to be effective upon Closing.

(f) Easements. Seller shall provide Buyer all necessary easements as required by Section 2.6(a)(iii) and Section 3.4.

(g) Grants. Seller shall obtain all necessary permissions from the applicable grant agencies for the transfer of Seller's assets to Buyer.

(h) Closing Deliveries. Seller shall have delivered to Buyer the Closing requirements set forth in Section 2.6(a);

(i) Due Diligence. Buyer shall be satisfied, in its sole and absolute discretion, with the results of its due diligence review of the Business, the Assets and the Seller, including without limitation, satisfaction with the results of any title examination, surveys, property inspections, zoning review, appraisals and environmental assessment performed with respect to the Assets.

(j) No Adverse Change. Buyer has determined that there has not been any adverse change in the Business, the Assets, financial condition or Business prospects of Seller and that there is no adverse change in the relationships maintained by Seller with its employees, suppliers, customers or Governmental Authorities as of Closing;

(k) Board Approval. Buyer shall have obtained approval of the Contemplated Transaction by Buyer's board of directors.

5.2 Conditions Precedent to Obligations of Seller. The Seller's obligation to consummate the Contemplated Transaction is subject to the satisfaction in full, unless expressly waived in writing by Seller, of each of the following conditions:

(a) Representations and Warranties. Each of the representations and warranties of Buyer contained in Article 4 is true, correct and accurate as of the date of this Agreement and, as of the Closing Date, shall be true, correct and accurate as though restated on and as of such date (except in the case of any representation and warranty that by its terms is made as of a date specified therein, which shall be accurate as of such date);

(b) Covenants. Buyer shall have performed and complied with all covenants required by this Agreement to be performed and complied with by Buyer prior to or at Closing;

(c) Buyer's Service Obligations. Within 30 days after execution of this Agreement, Seller shall be satisfied that, based on: (i) Buyer's tariff on file with the Kentucky Public Service Commission; (ii) Buyer's statutory obligations under Kentucky Revised Statutes Chapter 278; and (iii) Buyer's regulatory obligations under Chapter 5 of Title 807 of the Kentucky Administrative Regulations, that Buyer's service obligations to North Middletown water and wastewater customers, including the continuity, reliability and extension of service, will be satisfactory; and

(d) Closing Deliveries. The Buyer shall have delivered to Seller the Closing requirements set forth in Section 2.6(b).

(e) Annexation Of Wastewater Treatment Plant Land. If prior to Closing, Seller has not yet annexed the land containing the wastewater treatment plant, Buyer shall allow Seller to annex that property pursuant to KRS Chapter 81A.

(f) Early Payment of Loans. Buyer shall pay any fees that may arise from early payment of Kentucky League of Cities (US Bank notes), and from Department of Local Government (KIA loan).

ARTICLE 6

Covenants and Special Agreements

6.1 Covenants of Seller Prior to Closing. Seller covenants and agrees that during the period from the Effective Date hereof until Closing:

(a) Non-Solicitation. Unless and until such time as this Agreement is terminated pursuant to Article 8, Seller shall not, and will cause each employee, officer, governing body, and agent not to, directly or indirectly: (i) submit, solicit, initiate, encourage or discuss any proposal or offer from any Person relating to any sale of all or any portion of the Assets or a sublease or assignment of any lease or any similar transaction involving Seller and the Business or the Assets; (ii) enter into any agreement or commitment related to any such transaction; or (iii) furnish any information with respect to or assist or participate in or facilitate in any other manner any effort or attempt by any Person to do or seek any of the foregoing. Seller shall notify Buyer immediately if any Person makes any proposal, offer, inquiry or contact with respect to any of the foregoing.

(b) Access. Upon reasonable prior notice by Buyer, Seller shall: (i) furnish Buyer and its financial and legal advisors with copies of all such Contracts, books and Records and other existing documents and data as Buyer may reasonably request; (ii) furnish Buyer and its financial and legal advisors with such additional financial, operating and other data and information as Buyer may reasonably request; (iii) permit Buyer or its representatives to conduct such physical inspections and environmental audits of the Real Property, as requested by Buyer; and (iv) permit Buyer or its representatives to conduct interviews of employees of Seller.

(c) Ordinary Course. Seller shall carry on the operation of the Business in the ordinary course of business, consistent with prior practice, not introduce any materially new method of management or operation, and use reasonable efforts to preserve the Business and conserve the goodwill and relationships of Seller's customers, suppliers, Governmental Authorities and others having business relations with it. Seller shall not engage in any activity or transaction which is inconsistent with the terms of this Agreement.

(d) Liens; Encumbrances. Seller shall not enter into or assume any mortgage, pledge, security agreement or other title retention agreement or permit any Encumbrance to attach to any of the Assets, whether now owned or hereafter acquired.

(e) All Reasonable Efforts. Seller will use commercially reasonable efforts to satisfy each of the conditions for Closing of the Buyer set forth in Section 5.1 above.

(f) Further Covenants.

(i) Reports. Seller shall duly and timely file all reports required to be filed with any Governmental Authority and will promptly pay when due all Taxes, assessments and governmental charges including interest and penalties levied or assessed, unless diligently contested in good faith by appropriate Proceedings;

(ii) Condition of Property. Consistent with past practice, Seller shall maintain and keep the Assets in substantially the same condition as of the date hereof, normal wear and tear excepted;

(iii) Insurance. Seller shall maintain in full force and effect all policies of insurance now in effect up and through the Effective Time on the Closing Date, but not thereafter;

(iv) No Breach or Default of Contracts. Seller shall not do any act or omit any act or permit any omission to act which will cause a breach or default by Seller of any Contract;

(v) Supplies. Seller shall keep supplies at a level sufficient to operate the Business in accordance with past practice;

(vi) Contracts. Seller shall not enter into any Contract other than in the ordinary course of business; and

(vii) Related Person Transactions. Seller shall not enter into any transaction with any Related Person.

6.2 Environmental Assessment. Buyer, in its sole discretion and at its sole expense, may conduct a Phase I environmental analysis of any or all of the Real Property, and the Seller shall cooperate and provide access for same. In the event that a Phase I study detects any actual or possible violation of any Environmental Law, the Buyer may, in its sole discretion, terminate this Agreement the effect of which is described in Section 8.2 herein.

6.3 Certain Post-Closing Covenants of Seller.

(a) Seller:

(i) shall pay in a timely manner all Taxes resulting from or payable in connection with the sale of the Assets pursuant to this Agreement, regardless of the Person on whom such Taxes are imposed.

(ii) shall pay, or make adequate provisions for the payment, in full, of all of the retained Liabilities and other Liabilities of Seller under this Agreement.

(iii) hereby agrees to cooperate with Buyer to ensure a proper transition of all customers with respect to billing and customer service activities.

(iv) hereby acknowledges that Buyer must comply with all provisions of its tariffs as filed with and approved by the PSC.

ARTICLE 7 Indemnification

7.1 Survival; Right to Indemnification Not Affected by Knowledge. All representations, warranties, covenants and obligations of Seller given in this Agreement and/or any Transaction Document delivered pursuant to this Agreement shall survive Closing. The right to indemnification, payment of Damages or other remedy based on such representations, warranties, covenants and obligations will not

be affected by any investigation conducted with respect to or any Knowledge acquired (or capable of being acquired) at any time, whether before or after the execution and delivery of this Agreement or the Closing Date, with respect to the accuracy or inaccuracy of or compliance with, any such representation, warranty, covenant or obligation. The waiver of any condition based on the accuracy of any representation or warranty or on the performance of or compliance with any covenant or obligation will not affect the right to indemnification, payment of Damages or other remedy based on such representations, warranties, covenants and obligations.

7.2 Indemnification and Payment of Damages by Seller. Seller hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless Buyer and Buyer's past, present and future officers, directors, shareholders, employees, agents, attorneys, representatives, successors and assigns (collectively, the "Indemnified Persons"), from any and all manner of actions, suits, debts, sums of money, interest owed, accounts, controversies, agreements, charges, damages, judgments, executions, and reasonably incurred costs, expenses, fees (including reasonable attorneys' fees and court costs), counterclaims, claims, demands, causes of action, liabilities and losses and award all other Liabilities incurred, paid or sustained by any of the foregoing (hereinafter referred to in this Agreement as "Damages"), in each case, arising out of, or caused by: (i) the misrepresentation, breach of warranty or nonfulfillment of any provision of this Agreement by Seller or; (ii) all Liabilities and/or duties of Seller, whether accruing prior to or after the Effective Time on the Closing Date, and any Encumbrance affecting the Assets; (iii) assessments, charges and other similar claims due or owing, directly or indirectly, by Seller or otherwise as a result of or on account of the Assets or the Business at any time prior to the Effective Time on the Closing Date; (iv) the ownership and/or operation of any of the Assets or the Business prior to the Effective Time on the Closing Date; (v) any claim or Proceeding now existing or hereafter arising and relating to the Assets or the Business of Seller and arising from events or matters occurring prior to the Effective Time on the Closing Date; and (vi) any claim by an employee of Seller for any severance payment or arising out of such employee's employment with Seller or under the Worker Adjustment and Retraining Notification Act, COBRA (Sections 601 through 608 of the Employee Retirement Income Security Act of 1974), or under any employee benefit plan or employment Contract to which Seller is a party.

7.3 Indemnification and Payment of Damages by Seller - Environmental Matters. In addition to the provisions of Section 7.2, Seller hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless the Indemnified Persons, and will pay to the Indemnified Persons the amount of any Damages (including costs of cleanup, containment or other remediation) arising, directly or indirectly, from or in connection with:

(a) Any Environmental, Health and Safety Liabilities arising out of or relating to: (i) (A) the ownership, operation or condition at any time on or prior to the Effective Time on the Closing Date of the Assets or any other properties (whether real, personal or mixed and whether tangible or intangible) in which Seller has or had an interest; or (B) any Hazardous Materials or other contaminants that were present on or in the Assets or any other properties at any time on or prior to the Effective Time on the Closing Date; or (ii) (A) any Hazardous Materials or other contaminants, wherever located, that were, or were allegedly, generated, transported, stored, treated, Released or otherwise handled by Seller or by any other Person for whose conduct it is or may be held responsible at any time on or prior to the Effective Time on the Closing Date; or (B) any Hazardous Activities that were, or were allegedly, conducted by Seller or by any other Person for whose conduct it is or may be held responsible on or prior to the Effective Time on the Closing Date; or

(b) Any bodily injury (including illness, disability and death), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any Person, including any employee or former employee of Seller or any other Person for whose conduct it is or may be held responsible, in any way arising from or allegedly arising from any Hazardous Activity conducted or allegedly conducted with respect to the Assets or the Real Property by Seller prior to the Effective Time on the Closing Date, or from Hazardous Material that was: (i) present or suspected to be present on or before the Effective Time on the Closing Date on or at the Real Property (or present or suspected to be present on any other property, if such Hazardous Material

emanated or allegedly emanated from any of the Real Property and was present or suspected to be present on any of the Real Property on or prior to the Effective Time on the Closing Date); or (ii) Released or allegedly Released by Seller or any other Person for whose conduct it is or may be held responsible, at any time on or prior to the Effective Time on the Closing Date.

Buyer shall control any Cleanup, any related Proceeding and, except as provided in the following sentence, any other Proceeding with respect to which indemnity may be sought under this Section 7.3. The procedure described in Section 7.5 will apply to any claim solely for monetary Damages relating to a matter covered by this Section 7.3.

7.4 Indemnification By Buyer. Buyer hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless Seller and Seller's past, present and future officers, governing body, employees, agents, attorneys, representatives, successors and assigns from any and all Damages arising out of, or caused by: (i) Buyer's misrepresentation, breach of warranty or nonfulfillment of any provision of this Agreement; (ii) any claim or Proceeding arising after the Effective Time on the Closing Date and relating to events or matters occurring subsequent to the Effective Time on the Closing Date; and (iii) any claim by an employee of Buyer arising out of such employee's employment with Buyer after the Effective Time on the Closing Date.

7.5 Procedure for Indemnification. The procedure for indemnification shall be as follows:

(a) The party claiming indemnification (the "Claimant") shall promptly give notice to the party from whom indemnification is claimed (the "Indemnifying Party") of any claim, whether between the parties or brought by a third party, specifying: (i) the factual basis for such claim; and (ii) the amount of the claim. If the claim relates to a Proceeding filed by a third party against Claimant, Claimant shall give such notice within ten (10) Business Days after written notice of such Proceeding was given to Claimant. Claimant's failure to give the Indemnifying Party such notice shall not preclude Claimant from obtaining indemnification from the Indemnifying Party unless Claimant's failure has materially prejudiced the Indemnifying Party's ability to defend the claim or litigation, and then the Indemnifying Party's obligation shall be reduced to the extent of such prejudice.

(b) Following receipt of notice from the Claimant of a claim, the Indemnifying Party shall have thirty (30) days to make such investigation of the claim as the Indemnifying Party deems necessary or desirable. For the purposes of such investigation, the Claimant agrees to make available to the Indemnifying Party and/or its authorized representatives the information relied upon by the Claimant to substantiate the claim. If the Claimant and the Indemnifying Party agree at or prior to the expiration of said thirty (30)-day period (or any mutually agreed upon extension thereof) to the validity and amount of such claim, the Indemnifying Party shall immediately pay to the Claimant the full amount of the claim. If the Claimant and the Indemnifying Party do not agree within said period (or any mutually agreed upon extension thereof), the Claimant may seek appropriate legal remedy.

(c) (i) With respect to any claim by a third party as to which the Claimant asserts it is entitled to indemnification hereunder, the Indemnifying Party shall have the right, at its own expense, to participate in or at its election to assume control of the defense of such claim, with counsel reasonably satisfactory to Claimant, subject to reimbursement of Claimant for actual out-of-pocket expenses incurred by Claimant as the result of request by the Indemnifying Party, subject to the following;

(A) The Claimant may retain separate co-counsel at its sole cost and expense and participate in the defense of any such claim by a third party; and

(B) The Indemnifying Party shall conduct the defense of the third party claim actively and diligently thereafter.

(ii) If the Indemnifying Party elects to assume control of the defense of any third party claim pursuant to Section 7.5(c)(i), the Indemnifying Party may nevertheless reserve the right to dispute the amount of indemnification claimed or dispute Claimant's right to be indemnified with respect to all or any portion of the claim. Except with the written Consent of the Claimant, the Indemnifying Party

shall not, in defending any claim or any litigation resulting therefrom, consent to entry of any judgment or enter into any settlement which does not release the Claimant from all Liability in respect of such claim or litigation. In the event the Claimant fails to consent to any settlement or compromise which such failure results in Damages in excess of the amount for which Consent was requested, the limitation of the Indemnifying Party's obligations to indemnify the Claimant with respect to the subject matter of the claim shall be the amount of the proposed settlement or compromise rejected by Claimant and the Claimant shall be responsible for, and shall hold harmless the Indemnifying Party from, all Damages (including, without limitation, reasonable attorneys' fees incurred with respect to matters subsequent to the rejection of the settlement by Claimant) in excess of the amount of the proposed settlement or compromise rejected by Claimant.

(d) If a claim, whether between the parties or by a third party, requires immediate action, the parties will make every effort to reach a decision with respect thereto as expeditiously as possible.

7.6 Means of Indemnification and Right to Setoff. In addition to any other right or means Buyer may have to enforce the indemnities provided for in Sections 7.2 and 7.3 hereof, Buyer shall be entitled to set off any amount to which it may be entitled under this Agreement or Damages which Buyer may incur as a result of any breach of this Agreement or any covenant, guaranty or other provision contained within this Agreement against any payments of the Purchase Price and/or any indebtedness or obligation owed to Seller whether under this Agreement or any agreement or document related hereto. Buyer's right to setoff or its exercise thereof shall not prejudice the right of Buyer to pursue, in addition or as an alternative to such right, any other right or means Buyer may have to enforce the indemnification provided for in Sections 7.2 and 7.3 hereof and in no event shall the amount actually setoff limit Buyer's right to indemnification under Sections 7.2 and 7.3 hereof.

ARTICLE 8 Termination

8.1 Termination and Abandonment. This Agreement may be terminated and abandoned at any time prior to the Closing Date:

- (a) by mutual written Consent of Buyer and Seller;
- (b) by Buyer, if the PSC does not approve the adoption or approval of water and wastewater rates prior to the Closing Date or such other later date as agreed upon in writing; or
- (c) by Buyer in the event of the failure of any conditions precedent set forth in this Agreement.

8.2 Effect of Termination. The right of each party to terminate this Agreement under Section 8.1 is in addition to any other rights such party may have under this Agreement or otherwise, and the exercise of a right of termination will not be an election of remedies. If this Agreement is terminated pursuant to Section 8.1, all further obligations of the parties under this Agreement will terminate, except that the obligations set forth in Sections 9.9 ("Legal Fees; Costs") and 9.15 ("Publicity; Announcements"); and all other covenants and agreements which by their terms continue after the termination of this Agreement will survive; provided, however, that if this Agreement is terminated by a party because of the breach of the Agreement by another party or because one (1) or more of the conditions to the terminating party's obligations under this Agreement is not satisfied as a result of the other party's failure to comply with its obligations under this Agreement, the terminating party's right to pursue all legal remedies will survive such termination unimpaired.

ARTICLE 9 General Provisions

9.1 Amendment and Modification. No amendment, modification, supplement, termination, Consent or waiver of any section or provision of this Agreement, nor any Consent for departure therefrom, will in any event be effective unless the same is in writing and is signed by the parties. Any waiver of any provision of this Agreement and any Consent to any departure from the terms of any provision of this Agreement is to be effective only in the specific instance and for the specific purpose for which given.

9.2 Assignments. Seller may not assign or transfer any of its rights or obligations under this Agreement to any other Person without the prior written Consent of Buyer. Buyer may assign its rights and obligations under this Agreement to any Related Person or successor in interest without the Consent of Seller.

9.3 Captions. Captions contained in this Agreement and any table of contents preceding this Agreement have been inserted herein only as a matter of convenience and in no way define, limit, extend or describe the scope of this Agreement or the intent of any provision hereof.

9.4 Counterparts; Electronic Mail. This Agreement may be executed by the parties hereto on any number of separate counterparts, and all such counterparts so executed constitute one agreement binding on all the parties hereto notwithstanding that all the parties hereto are not signatories to the same counterpart. For purposes of this Agreement, a document (or signature page thereto) signed and transmitted in .pdf format by electronic mail is to be treated as an original document. The signature of any party thereon is to be considered as an original signature, and the document transmitted is to be considered to have the same binding effect as an original signature on an original document. At the request of any party hereto, the .pdf copy is to be re-executed in original form by the parties who executed the .pdf copy. No party hereto may raise the use of a .pdf copy or the fact that any signature was transmitted through the use of electronic mail as a defense to the enforcement of this Agreement or any amendment or other document executed in compliance with this section.

9.5 Entire Agreement. This Agreement and the other Transaction Documents constitute the entire agreement among the parties hereto pertaining to the subject matter hereof and supersede all prior agreements, letters of intent, understandings, negotiations and discussions of the parties hereto, whether oral or written.

9.6 Exhibits and Schedules. All of the Exhibits and Schedules attached to this Agreement are deemed incorporated herein by reference.

9.7 Failure or Delay. Except as otherwise provided by this Agreement, no failure on the part of any party hereto to exercise, and no delay in exercising, any right, power or privilege hereunder operates as a waiver thereof, nor does any single or partial exercise of any right, power or privilege hereunder preclude any other or further exercise thereof, or the exercise of any other right, power or privilege. No notice to or demand on any party hereto in any case entitles such party to any other or further notice or demand in similar or other circumstances.

9.8 Governing Law. This Agreement and the rights and obligations of the parties hereunder are to be governed by and construed and interpreted in accordance with the Laws of the State of Kentucky applicable to Contracts made and to be performed wholly within Kentucky, without regard to choice or conflict of Laws rules. In the event of any litigation or claim regarding this Agreement, the parties agree that the PSC has jurisdiction to govern all matters involving the Contemplated Transaction and the provision of water service by Buyer to the residents located within the Service Area.

9.9 Legal Fees, Costs. All legal, consulting and advisory fees and other costs and expenses incurred in connection with this Agreement and the Contemplated Transaction are to be paid by the party incurring such costs and expenses; provided, however, in the event litigation is instituted by either party to enforce or remedy a breach of any provision of this Agreement, in addition to any other

relief therein awarded, the prevailing party shall be entitled to judgment for reasonable attorney's fees and litigation expenses. The term "prevailing party" shall include, but not be limited to, a party who obtains legal counsel or brings an action against the other by reason of the other's breach or default and obtains substantially the relief sought whether by compromise, mediation, settlement, judgment or otherwise.

9.10 Notices. All notices, Consents, requests, demands and other communications hereunder are to be in writing and are deemed to have been duly given, made or delivered: (i) when delivered in person, (ii) three (3) days after deposited in the United States mail, first class postage prepaid, (iii) in the case of telegraph or overnight courier services, one (1) Business Day after delivery to the telegraph company or overnight courier service with payment provided, or (iv) in the case of electronic mail, when sent, verification received, in each case addressed as follows:

if to Seller:

Office of the Mayor
North Middletown City Hall
3287 N. Middletown Road North Middletown, Kentucky 40357

with a copy to (which will not constitute notice):

Attn: Henry Watson
525 High Street, Suite 325
Paris, Kentucky 40361

if to Buyer:

Attn: President
Kentucky-American Water Company
2300 Richmond Road
Lexington, Kentucky 40502

with a copy to (which shall not constitute notice):

Attn: Corporate Counsel
Kentucky-American Water Company
2300 Richmond Road
Lexington, Kentucky 40502

or to such other address as any party hereto may designate by notice to the other parties in accordance with the terms of this Section. For e-mail, a Party shall contact the other Party to receive the then-applicable e-mail for the person in the position stated above.

9.11 Severability. Any provision of this Agreement which is prohibited, unenforceable or not authorized in any jurisdiction is, as to such jurisdiction, ineffective to the extent of any such prohibition, unenforceability or non-authorization without invalidating the remaining provisions hereof, or affecting the validity, enforceability or legality of such provision in any other jurisdiction, unless the ineffectiveness of such provision would result in such a material change as to cause completion of the Contemplated Transaction to be unreasonable.

9.12 Specific Performance and Injunctive Relief. The parties hereto recognize that if any or all of them fail to perform, observe or discharge any of their respective obligations under this Agreement, a remedy at Law may not provide adequate relief to the other parties hereto. Therefore, in addition to any other remedy provided for in this Agreement or under applicable Law, any party hereto may demand

specific performance of this Agreement, and such party shall be entitled to temporary and permanent injunctive relief, in a court of competent jurisdiction at any time when any of the other parties hereto fail to comply with any of the provisions of this Agreement applicable to such party. To the extent permitted by applicable Law, all parties hereto hereby irrevocably waive any defense based on the adequacy of a remedy at Law which might be asserted as a bar to such party's remedy of specific performance or injunctive relief.

9.13 Successors and Assigns. Subject to Section 9.2, all provisions of this Agreement are binding upon, inure to the benefit of and are enforceable by or against the parties hereto and their respective heirs, executors, administrators or other legal representatives and permitted successors and assigns.

9.14 No Third-Party Beneficiary. This Agreement is solely for the benefit of the parties hereto and their respective successors and permitted assigns, and no other Person has any right, benefit, priority or interest under, or because of the existence of, this Agreement.

9.15 Publicity; Announcements. From the date hereof through and including Closing, no party hereto shall issue, cause or permit the publication by any of their respective Related Persons, agents or representatives, any press release or other public announcement with respect to this Agreement or the Contemplated Transaction except: (i) with the Consent of the other parties hereto (which shall not be unreasonably withheld); or (ii) as required by applicable Law (including, without limitation, any applicable securities Law). Seller will not, without the prior Consent of Buyer, make any announcements to employees of Seller with respect to the Contemplated Transaction and, at such time as an announcement to the employees is made, Buyer shall be allowed to participate in such announcement.

9.16 Cooperation. Any notices or certifications given under this Agreement or any related agreement shall be given in good faith without any intention to unfairly impede or delay the other party. Buyer and Seller shall cooperate fully with each other and their respective counsel and accountants in connection with any actions required to be taken as part of their respective obligations under this Agreement including, without limitation, actions required to be taken with respect to obtaining any applicable regulatory approval of the Contemplated Transaction. Buyer and Seller shall execute such other documents as may be necessary and desirable to the implementation and consummation of this Agreement. Each party agrees to use all reasonable efforts to consummate the Contemplated Transaction including, without limitation, doing all things reasonably necessary to obtain the requisite regulatory approval.

9.17 Seller's Current Employees. Buyer shall give Seller's one current employee priority employment consideration subject to Buyer's standard hiring practices and procedures applicable to prospective employees. Those standard hiring practices and procedures include, but are not limited to, interviews, examinations, background checks and other screening tests routinely required of Buyer's prospective employees. Seller's employee meeting such requirements will be employed on an at-will basis.

9.18 Possession. Buyer shall receive possession of the Assets at the time of Closing free and clear of all leases, tenancies and rights of others.

9.19 Risk of Loss. Seller shall bear all risk of loss of any nature whatsoever to the Assets between the date of this Agreement and the delivery of the deed of the Assets. In the event of any casualty loss to the Assets between the date of this Agreement and the Closing, Buyer shall be entitled to elect whether to close in accordance with the terms hereof and to receive at Closing any insurance proceeds payable in connection therewith, or to terminate this Agreement, whereupon this Agreement shall be null and void and of no further force or effect.

9.20 Condemnation. In the event of the institution of any Proceedings which relate to the taking or the proposed taking of all or any portion of the Assets by eminent domain or other public taking prior to Closing, Buyer shall be entitled to elect whether to close in accordance with the terms

hereof and to receive at Closing an assignment of all condemnation awards and/or payments in connection therewith, which shall be the sole property of Buyer, or to terminate this Agreement, whereupon this Agreement shall be null and void and of no further force or effect.

9.21. Commissions. Buyer and Seller each covenant with the other that neither has dealt with any Realtor, broker or agent in the sale of the Assets and each will indemnify and hold the other harmless from any commission claimed to be due by any Realtor, broker or agent with whom the indemnifying party has allegedly dealt or contracted for a commission.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

Buyer

KENTUCKY-AMERICAN WATER COMPANY, a
Kentucky public utility corporation

By: 

Nick Rowe, President

Seller

CITY OF NORTH MIDDLETOWN, KY

By: 

Name: Jeff McFarland

Title: Mayor, City of North Middletown

Schedule 1 Definitions

"Assets" as defined in Section 2.1.

"Agreement" as defined in the introductory paragraph.

"Assignment and Assumption Agreement" as defined in Section 2.7(a)(ii).

"Bill of Sale" as defined in Section 2.7(a)(i).

"Business" as defined in the Recitals.

"Business Days" means any day other than (i) Saturday or Sunday, or (ii) any other day on which governmental offices in the State of Indiana are permitted or required to be closed.

"Buyer" as defined in the introductory paragraph.

"Claimant" as defined in Section 7.5(a).

"Closing" as defined in Section 2.6.

"Closing Date" as defined in Section 2.6.

"Confidential Information" means (i) information not available to the general public concerning the Business and financial affairs with respect to a party hereto, and (ii) analyses, compilations, forecasts, studies and other documents prepared on the basis of such information by the parties or their agents, representatives, any Related Person, employees or consultants.

"Consent" means any approval, consent, ratification, waiver or other authorization.

"Contemplated Transaction" means all of the transactions contemplated by this Agreement and the Transaction Documents.

"Contract" means any agreement, contract, obligation, promise or undertaking (whether written or oral and whether express or implied), whether or not legally binding.

"Customer Premises" means a dwelling, building, structure or parcel of real estate which is supplied with water or sewer service.

"Customer Service Connection" means that portion of water pipe extending from the Customer Premises to the curb box containing the curb service stop which Customer Service Connection shall be owned and maintained by the customer and that portion of water pipe extending from the Customer Premises to the company owned collection system which Customer Service Connection shall be owned and maintained by the customer.

"Damages" as defined in Section 7.2.

"Effective Time" as defined in Section 2.6.

"Encumbrance" means any charge, claim, community property interest, condition, easement, equitable interest, lien, mortgage, option, pledge, security interest, right of first refusal, right of way, servitude or restriction of any kind, including any restriction on use, transfer, receipt of income or exercise of any other attribute of ownership, or any repayment obligation under any grant.

"Environment" means soil, land surface or subsurface strata, surface waters (including navigable waters, ocean waters, streams, ponds, drainage basins and wetlands), groundwater, drinking water

supply, stream sediments, ambient air (including indoor air), plant and animal life and any other environmental medium or natural resource.

“Environmental, Health and Safety Liabilities” means any cost, Damages, expense, Liability, obligation or other responsibility arising from or under Environmental Law or Occupational Safety and Health Law and consisting of or relating to:

(a) Any environmental, health or safety matters or conditions (including on-site or off-site contamination, occupational safety and health and regulation of chemical substances or products);

(b) Fines, penalties, judgments, awards, settlements, legal or administrative proceedings, Damages, losses, claims, demands and response, investigative, remedial or inspection costs and expenses arising under Environmental Law or Occupational Safety and Health Law;

(c) Financial responsibility under Environmental Law or Occupational Safety and Health Law for cleanup costs or corrective action, including any investigation, cleanup, removal, containment or other remediation or response actions (“Cleanup”) required by applicable Environmental Law or Occupational Safety and Health Law (whether or not such Cleanup has been required or requested by any Governmental Authority or any other Person) and for any natural resource Damages; or

(d) Any other compliance, corrective, investigative or remedial measures required under Environmental Law or Occupational Safety and Health Law.

The terms “removal,” “remedial,” and “response action,” include the types of activities covered by the United States Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601 et seq., as amended (“CERCLA”).

“Environmental Law” means any Law that requires or relates to:

(a) Advising appropriate authorities, employees and the public of intended or actual Releases of pollutants or hazardous substances or materials, violations of discharge limits or other prohibitions and of the commencements of activities, such as resource extraction or construction, that could have significant impact on the Environment;

(b) Preventing or reducing to acceptable levels the Release of pollutants or hazardous substances or materials into the Environment;

(c) Reducing the quantities, preventing the release or minimizing the hazardous characteristics of wastes that are generated;

(d) Assuring that products are designed, formulated, packaged and used so that they do not present unreasonable risks to human health or the Environment when used or disposed of;

(e) Protecting resources, species or ecological amenities;

(f) Reducing to acceptable levels the risks inherent in the transportation of hazardous substances, pollutants, oil or other potentially harmful substances;

(g) Cleaning up pollutants that have been Released, preventing the threat of Release or paying the costs of such clean up or prevention; or

(h) Making responsible parties pay private parties, or groups of them, for Damages done to their health or the Environment, or permitting self-appointed representatives of the public interest to recover for injuries done to public assets.

“Excluded Assets” as defined in Section 2.2.

“Governmental Authority(ies)” means any:

- (a) Nation, state, county, city, town, village, district or other jurisdiction of any nature;
- (b) Federal, state, local, municipal, foreign or other government;
- (c) Governmental or quasi-governmental authority of any nature (including any governmental agency, branch, department, official or entity and any court or other tribunal);
- (d) Multi-national organization or body; or
- (e) Body exercising, or entitled to exercise, any administrative, executive, judicial, legislative, police, regulatory or taxing authority or power of any nature.

"Hazardous Activity" means the distribution, generation, handling, importing, management, manufacturing, processing, production, refinement, Release, storage, transfer, transportation, treatment or use (including any withdrawal or other use of groundwater) of Hazardous Materials in, on, under, about or from the property or any part thereof into the Environment, and any other act, business, operation or thing that increases the danger or risk of danger, or poses an unreasonable risk of harm to persons or property on or off the property, or that may affect the value of the property or Seller.

"Hazardous Materials" means any waste or other substance that is listed, defined, designated or classified as, or otherwise determined to be, hazardous, radioactive or toxic or a pollutant or a contaminant under or pursuant to any Environmental Law, including any admixture or solution thereof, and specifically including petroleum and all derivatives thereof or synthetic substitutes therefor and asbestos or asbestos-containing materials.

"Indemnifying Party" as defined in Section 7.5(a).

"Knowledge" means an individual will be deemed to have "Knowledge" of a particular fact or other matter if:

- (a) Such individual is actually aware of such fact or other matter; or
- (b) A prudent individual could be expected to discover or otherwise become aware of such fact or other matter in the course of conducting a reasonable investigation concerning the existence of such fact or other matter.

A Person (other than an individual) will be deemed to have "Knowledge" of a particular fact or other matter if any individual who is serving as a director or officer of such Person (or in any similar executive capacity) has, or at any time had, Knowledge of such fact or other matter.

"Law" means any law, rule, regulation or ordinance of any federal, foreign, state or local Governmental Authority.

"Liability" with respect to any Person any liability or obligation of such Person for any kind, character or description, whether known or unknown, absolute or contingent, accrued or unaccrued, disputed or undisputed, liquidated or unliquidated, secured or unsecured, joint or several, due or to become due, vested or unvested, executory, determined, determinable or otherwise and whether or not the same is required to be accrued on the financial statements of such Person.

"Occupational Safety and Health Law" means any Law designed to provide safe and healthful working conditions and to reduce occupational safety and health hazards, and any program, whether governmental or private (including those promulgated or sponsored by industry associations and insurance companies), designed to provide safe and healthful working conditions.

"Order" means any award, decision, injunction, judgment, order, ruling, subpoena or verdict entered, issued, made or rendered by any court, administrative agency or other Governmental Authority or by any arbitrator.

"Organizational Documents" means the articles or certificate of incorporation and the bylaws of a corporation and any amendment thereto.

"Permit" means any approval, Consent, license, permit, waiver or other authorization issued, granted, given or otherwise made available by or under the authority of any Governmental Authority or pursuant to any Law.

"Person" means any individual, corporation (including any non-profit corporation), general or limited partnership, limited liability company, joint venture, estate, trust, association, organization, labor union or other entity or Governmental Authority.

"Proceeding" means any action, arbitration, audit, hearing, investigation, litigation or suit (whether civil, criminal, administrative, investigative or informal) commenced, brought, conducted or heard by or before, or otherwise involving, any Governmental Authority or arbitrator.

"Purchase Price" as defined in Section 2.3.

"Real Property" as defined in Section 3.4.

"Records" means information that is inscribed on a tangible medium or that is stored in an electronic or other medium and is retrievable in perceivable form.

"Related Person" with respect to a particular individual, means:

- (a) Each other member of such individual's Family (as hereinafter defined);
- (b) Any Person that is directly or indirectly controlled by such individual or one or more members of such individual's Family;
- (c) Any Person in which such individual or members of such individual's Family hold (individually or in the aggregate) a Material Interest; and
- (d) Any Person with respect to which such individual or one or more members of such individual's Family serves as a director, officer, partner, executor or trustee (or in a similar capacity).

With respect to a specified Person other than an individual:

- (e) Any Person that directly or indirectly controls, is directly or indirectly controlled by, or is directly or indirectly under common control with such specified Person;
- (f) Any Person that holds a Material Interest in such specified Person;
- (g) ~~Each Person that serves as a director, officer, partner, executor or trustee of such specified Person (or in a similar capacity);~~
- (h) Any Person in which such specified Person holds a Material Interest;
- (i) Any Person with respect to which such specified Person serves as a general partner or a trustee (or in a similar capacity); and
- (j) Any Related Person of any individual described in clause (b) or (c).

For purposes of this definition, (i) the "Family" of an individual includes (A) the individual, (B) the individual's spouse, (C) any other natural person who is related to the individual or the individual's spouse within the second degree, and (D) any other natural person who resides with such individual; and (ii) "Material Interest" means direct or indirect beneficial ownership (as defined in Rule 13d-3 under the Securities Exchange Act of 1934) of voting securities or other voting interests representing at least five percent (5%) of the outstanding equity securities or equity interests in a Person.

"Release" means any spilling, leaking, emitting, discharging, depositing, escaping, leaching, dumping or other releasing into the Environment, whether intentional or unintentional.

"Seller" shall have the meaning given that term in the introductory paragraph.

"Service Area" as defined in the Recitals.

"Service Line" means that portion of water pipe extending from the water main to and including the curb stop and curb box located at or near the property line of a Customer Premises.

"Tangible Personal Property" means all wells, treatment plants, pumps, water transmission and distribution mains, valves and appurtenances, storage tanks, Service Lines, meters, meter installations, hydrants, machinery, equipment, tools, furniture, office equipment, computer hardware, supplies (including chemicals and spare parts), materials, vehicles and other items of tangible personal property of every kind owned or leased by Seller (wherever located and whether or not carried on Seller's books), which are, could be, or in the future would be part of the production, transmission and distribution system utilized to provide water service to Seller's water customers, together with any express or implied warranty by the manufacturers or sellers or lessors of any item or component part thereof, and all maintenance Records and other documents relating thereto.

"Tax" means all taxes, charges, withholdings, fees, levies, penalties, additions, interest or other assessments, including, without limitation, income, gross receipts, excise, property, sales, employment, withholding, social security, occupation, use, service, service use, license, payroll, franchise, transfer and recording taxes, fees and charges, windfall profits, severance, customs, import, export, employment or similar taxes, charges, fees, levies or other assessments, imposed by any Governmental Authority, whether computed on a separate, consolidated, unitary, combined or any other basis.

"Transaction Documents" means this Agreement, the Bill of Sale, and all other documents, certificates, assignments and agreements executed and/or delivered in connection with this Agreement in Order to consummate the Contemplated Transaction, as the same may be amended, restated, modified or otherwise replaced by mutual agreement from time to time.

Rules of Construction

For purposes of this Agreement and the other documents executed in connection herewith, the following rules of construction shall apply, unless specifically indicated to the contrary: (i) wherever from the context it appears appropriate, each term stated in either the singular or plural shall include the singular and the plural, and pronouns stated in the masculine, feminine or neuter gender shall include the masculine, the feminine and the neuter; (ii) the term "or" is not exclusive; (iii) the term "including" (or any form thereof) shall not be limiting or exclusive; (iv) all references to statutes and related regulations shall include any amendments of same and any successor statutes and regulations; (v) all references in this Agreement or in the Schedules to this Agreement to sections, schedules, exhibits and attachments shall refer to the corresponding sections, schedules, exhibits and attachments of or to this Agreement; and (vi) all references to any instruments or agreements, including references to any of the documents executed in connection herewith, shall include any and all modifications or amendments thereto and any and all extensions or renewals thereof.

Schedule 2.2
Excluded Assets

This schedule will be completed to Buyer's satisfaction prior to closing.

Schedule 3.4
Real Property and Easements

This schedule will be completed to Buyer's satisfaction prior to closing.

Schedule 3.6
Contracts

This schedule will be completed to Buyer's satisfaction prior to closing.

Schedule 3.7(a)
Environmental Matters

This schedule will be completed to Buyer's satisfaction prior to closing.

Schedule 3.8
Permits

This schedule will be completed to Buyer's satisfaction prior to closing.

**Schedule 3.12
Proceedings**

This schedule will be completed to Buyer's satisfaction prior to closing.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

85. Provide a list of all assets that Kentucky American will acquire from North Middletown.

Response:

The assets the Company is acquiring from North Middletown were listed in the invitation to bid as shown below. The full invitation to bid is also attached to the Company's response to the Commission Staff's Second Request for Information, Question 72.

INVITATION TO BID CITY OF NORTH MIDDLETOWN, KENTUCKY	
The City of North Middletown, Kentucky is requesting Proposals from interested parties for the purchase of the North Middletown Water and Wastewater facilities.	
The City owns the following facilities:	
1.	<p>Water Facilities:</p> <ol style="list-style-type: none"> 1. Water supply lines of 8", 6", 4", and domestic water service lines totaling approximately 119,143 feet. 2. (2) Two 100,000 gallon elevated water storage tanks. Both tanks have undergone complete rehabilitation and painting as of the fall of 2015 3. SCADA equipment to monitor system 4. 382 customer connections with newly installed radio read meters. 5. Radio read hardware with spare meters and end-points 6. (40) Fire hydrants. 7. Approximate annual average daily metered flow of 175,000 gpd.
2.	<p>Wastewater Facilities:</p> <ol style="list-style-type: none"> 1. Wastewater package plant with a capacity of 88,000 gpd. (current average flow - 45,000 gpd) 2. (3) Wastewater lagoons currently used as overflow storage for system. 3. Gravity fed collection system of approximately 19,560 feet of 8" mains. 4. Approximately 248 customer connections, all within the city limits.
The City is selling all tangible personal property (the facilities) and the intangible property (customers and going concerns, etc) and utility buildings. The City will enter into a franchise agreement for the use of rights of way and other City assets. The City will contractually retain first right of refusal regarding any subsequent transac-	

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 86.** Provide any current notice of violations issued by the Energy and Environment Cabinet or the Kentucky Division of Water to North Middletown. Provide copies of each outstanding violation and state how the violations will be resolved.

Response:

KAW objects to this question on the basis that, to the extent any current notices of violation exist that were issued by the Energy and Environment Cabinet or the Kentucky Division of Water, they are public documents obtainable directly from those agencies by LFUCG. However, without waiving such objection, KAW is aware of the following outstanding notices of violation. First, a Consumer Confidence Rule violation was issued on August 6, 2018. The report that was filed did not include the required language, was incomplete, and a copy of the report was not submitted to the Kentucky Division of Water. Second, a monitoring violation was issued on November 4, 2018 for missing a sampling deadline. The system is required to collect two routine samples per quarter and no samples were received by the deadline.

The first violation will be resolved by discussing in detail the nature of the violation in the next CCR report the City of North Middletown files that is due by July 1, 2019.

The second violation can be resolved by providing notice to consumers in the next CCR report the City of North Middletown files that is due by July 1, 2019.

Once KAW acquires and operates the North Middletown system, KAW will take all reasonable steps to ensure regulatory compliance with the Energy and Environment Cabinet and the Kentucky Division of Water to maintain compliance moving forward.

See attached.

Scanning Batch Sheet

Show Form



SEP 17 2018 - 02:31 PM) REC



**ENERGY AND ENVIRONMENT CABINET**

Matthew G Bevin
Governor

Department for Environmental Protection
Division of Water
300 Sower Boulevard
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G Snavely
Secretary

Anthony R Hatton
Commissioner

September 6, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 1641
RETURN RECEIPT REQUESTED

JEFF MCFARLAND
NORTH MIDDLETOWN WATER DEPT
PO BOX 69
NORTH MIDDLETOWN, KY 40357

Re: **NOTICE OF VIOLATION**
AI ID: 33798
PWSID: KY0090322
PWS NAME: NORTH MIDDLETOWN WATER DEPT
COUNTY: BOURBON

Dear Mr. Mcfarland:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Maggie Mahan at (502)782-6136 or email at Maggie.mahan@ky.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Uliasz".

Joseph Uliasz
Drinking Water CTAB Acting Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

**COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water**

NOTICE OF VIOLATION

To:

NORTH MIDDLETOWN WATER DEPT
PO BOX 69
NORTH MIDDLETOWN, KY 40357

PWSID: KY0090322**PWS Name:** NORTH MIDDLETOWN WATER DEPT **AI ID:** 33798**County:** BOURBON**Violation Number:** 2018 - 9936643**Determination Date:** 08/06/2018**Violation Type:** 72 CCR ADEQUACY/AVAILABILITY/CONTENT**Contaminant:** 7000 CONSUMER CONFIDENCE RULE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]

This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:075, Section 2 CONSUMER CONFIDENCE RULE The public water system failed to prepare and submit to the Department of Environmental Protection a Certification of the distribution of the report that conforms to the requirements of 401 KAR 8:075 for the calendar year. See "Comments" below for details specifying the nature of the violation:

Comments: System failed to submit a completed CCR Certification by the annual deadline of July 1st. The Certification was not filled out with distribution dates, , wholesale or purchaser information, or signed. The copper and lead data were missing the 90th % results, the E. coli row was a non-detect, and violation 2018-9936639 was not listed in the violation statement list. The CCR violation statement for violation 2017-9936637, states that the required proof for the calendar year 2015 CCR violation would be submitted with this CCR package and was not. Submit a corrected CCR Certification, correct all of these items in future CCRs and detail this violation in the calendar year 2018 CCR, due no later than July 1, 2019.

The remedial measure(s) and date(s) to be completed by are as follows:

This Notice of Violation must be discussed, detailing the nature of the violation, in next year's CCR that is due to the customers and the Department of Environmental Protection, Division of Water by July 1st, annually.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>.

If you have questions or need further information, write or call Maggie Mahan at 502-782-6136 or email at Maggie.mahan@ky.gov.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601



Issued By:

Joseph Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: September 6, 2018

How Delivered: Certified/Registered #7010 1870 0000 9173 1641

**ENERGY AND ENVIRONMENT CABINET**

Matthew G. Bevin
Governor

Department for Environmental Protection
300 Sower Boulevard
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G. Snively
Secretary

Anthony R. Hatton
Commissioner

December 7, 2018

CERTIFIED MAIL: 7009 1680 0000 9375 8373
RETURN RECEIPT REQUESTED

JEFF MCFARLAND
NORTH MIDDLETOWN WATER DEPT
PO BOX 69
NORTH MIDDLETOWN, KY 40357

Re: **NOTICE OF VIOLATION**
AI ID: 33798
PWSID: KY0090322
PWS NAME: NORTH MIDDLETOWN WATER DEPT
COUNTY: BOURBON

Dear Mr. McFarland:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Husband at (502)782-6984 or email at kelleem.husband@ky.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Joe Uliasz".

Joe Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
NORTH MIDDLETOWN WATER DEPT
PO BOX 69
NORTH MIDDLETOWN, KY 40357

PWSID: KY0090322
PWS Name: NORTH MIDDLETOWN WATER DEPT **AI ID:** 33798
County: BOURBON
Violation Number: 2019 - 799
Determination Date: 11/04/2018
Compliance Period: 07/01/2018 - 09/30/2018
Violation Type: 27 MONITORING, ROUTINE (DBP), MAJOR **Tier Level:** 3
PWS Facility: IDSE1099 IDSE - NORTH MIDDLETOWN WATER
Contaminant: DBPS TTHM THAA

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:510, Section 1 TTHM THAA The public water system failed to submit an adequate number of DBP samples for the compliance period 07/01/2018 - 09/30/2018. Your system is required to collect 2 Routine Samples per Quarter. No samples were received by DOW.

Comments: Pulled 3rd qtr. samples in incorrect month. Samples should be pulled in July.

The remedial measure(s) and date(s) to be completed by are as follows:

Submit any overdue or unreported sampling analytical results, if available, for the compliance period 07/01/2018 - 09/30/2018

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:075 SECTION 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:075 SECTION 2] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>.

If you have questions or need further information, write or call Kellee Husband at (502)782-6984 or email at kelleem.husband@ky.gov.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601



Issued By:

Joe Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: December 7, 2018

How Delivered: Certified/Registered #7009 1680 0000 9375 8373

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 87.** Provide non-revenue water calculations for the North Middletown system for each of the last 12 months. Please clearly identify each component of the non-revenue water calculation.

Response:

KAW has not done its own calculation for North Middletown's non-revenue water. KAW obtained the attached report from the Kentucky Infrastructure Authority showing what North Middletown reported for their non-revenue water but we have not verified this information.

DOW Permit ID: **KY0090322**

[Link: DOW SDWIS Report](#)

DOW Permit Type: **DRINKING WATER (PWSID)**

DOW Permit Name: **North Middletown Water Dept**

WRIS System Name: **North Middletown Water Department**

System Type: **Community** Water Source Type: **Surface Water Purchaser** ADD WMC Contact: **Karyn Leverenz**
 ADD ID: **BGADD** Primary County: **Bourbon** Dow Field Office: **Frankfort**
 Permit Dates: Issued: **01.01.1973** Expired: Inactivated:

OPERATIONS AND MANAGEMENT INFORMATION

Primary Facility Information:

This is a treatment facility.
 This is a maintenance facility.
 Facility Name: **City Municipal Building**
 Facility Contact: **Betsy Frazier**
 Facility Phone: **859-362-7007**
 Facility Addr 1: **3287 North Middletown Rd**
 Facility Addr 2:
 City, State Zip: **North Middletown, KY 40357**

Date Last Modified: **05.23.2014**

System Management Entity Information:

Entity Name: **North Middletown Water and Gas System**
 Office Phone: **859-362-7007** Fax:
 Office Address 1: **PO Box 69**
 Office Address 2:
 City, State Zip: **North Middletown, KY 40357**

System Management Contact Information:

Contact Type	Contact Name	Title	E-Mail
1 Operations Contact:	Nathan Frazier	Superintendent	PERSONAL IDENTIFIERS REDACTED
2 Business Contact:	Betsy Frazier	City Clerk	
Manager:	Nathan Frazier	Superintendent	

1 Person responsible for physical infrastructure operations.
 2 Person responsible for billing and financial operations.

Date Last Modified: **05.23.2014**

OWNER ENTITY INFORMATION

Entity Type: **Incorporated City** PSC Group ID: **30013640**
 Entity Name: **City of North Middletown**
 Web URL:
 Office EMail: **PERSONAL IDENTIFIERS REDACTED**
 Office Phone: **859-362-7007** Toll Free: Fax: **859-362-7052**

Mail Address Line 1: **PO Box 69 3287 N Middletown Rd** Phys Address Line 1:
 Mail Address Line 2: Phys Address Line 2:
 Mail City, State Zip: **North Middletown, KY 40357** Phys City, State Zip:

Contact: **Betsy Frazier** Financial Contact: Auth Official: **Jeff McFarland**
 Contact Title: **City Clerk** Financial Contact Title: Auth Official Title: **Mayor**
 Contact EMail: **PERSONAL IDENTIFIERS REDACTED** Financial Contact EMail: Auth Official EMail: **PERSONAL IDENTIFIERS REDACTED**
 Contact Phone: **859-362-7007** Financial Contact Phone: Auth Official Phone: **859-707-7244**

Data Source: **Kentucky Department for Local Government**

Date Last Modified: **01.16.2019**

System Respondent

ADD WMP

Date

DOW Permit ID: **KY0090322**

[Link: DOW SDWIS Report](#)

DOW Permit Type: **DRINKING WATER (PWSID)**

DOW Permit Name: **North Middletown Water Dept**

WRIS System Name: **North Middletown Water Department**

System Type: **Community** Water Source Type: **Surface Water Purchaser** ADD WMC Contact: **Karyn Leverenz**
 ADD ID: **BGADD** Primary County: **Bourbon** Dow Field Office: **Frankfort**
 Permit Dates: Issued: **01.01.1973** Expired: Inactivated:

DEMOGRAPHIC INFORMATION

Counties Directly Served: 2			County Served	Connection Count	Serviceable Population	Serviceable Households	Med. HH Income	MHI MOE
Population	Households							
Directly Serviceable: 1,051	450		Bourbon	400	1,045	448	\$50,391	\$14,422
Indirectly Serviceable: 4,623	1,946		Clark		6	2	\$63,500	\$12,899
Total Serviceable: 5,674	2,396		Totals:	400	1,051	450	\$50,449	\$14,415

Note: Population counts are based on KIA census block overlay with WRIS mapped features.

MHI Source: American Community Survey 2012-2016 5Yr Estimates (Table B19013). MHI MOE = Med HH Income Margin of Error.

FISCAL ATTRIBUTES

Date Established: **01.01.1939** Employees: **2**

Does this system: If this is a municipal system, what is the cost per 4,000 gallons of finished water for customers:

(a) Produce Water? **No** (a) inside your municipality:

(b) Have wholesale customers? **Yes** (b) outside your municipality:

(c) Purchase water? **Yes**

If this is a non-municipal system, what is the customer cost per 4,000 gallons of finished water?

Date of Last Rate Adjustment: **07-01-2017**

Comments: **For 4,000 gallons:**
Rate for customers with sewer service \$53.13
Rate for customers without sewer service \$58.80
Rate for farm customers \$71.48

Date Last Modified: **04.18.2018**

Providers that sell water to this system:

Seller DOW Permit ID	Seller Name	Water Type	Ann. Vol. (MG)	Cost		Interconnects		
				Raw	Fin	Perm	Seas	Emer
KY0870147	Judy Water Association	F			\$4.73	1	0	0
KY0340250	Kentucky-American Water Company	F	65.442		\$4.33	1	0	0
Totals and Averages				65.442	\$4.53	2	0	0

Providers that purchase water from this system:

Purchaser DOW Permit ID	Purchaser Name	Water Type	Ann. Vol. (MG)	Cost		Interconnects			Serviceable	
				Raw	Fin	Perm	Seas	Emer	Population	Households
KY0870147	Judy Water Association	F	38.207		\$5.01	2	0	0	4,623	1,946
Totals and Averages				38.207	\$5.01	2	0	0	4,623	1,946

- MG = Million Gallons
- Water Types: R = Raw Water, F = Finished Water, B = Both Raw and Finished Water
- Cost Categories: Raw = Raw Untreated Water, Fin = Finished Treated Water
- Raw and Finished costs are per 1,000 gallons.
- Interconnect Types: Perm = Permanent, Seas = Seasonal, Emer = Emergency

SYSTEM PLANNING

Water Treatment Plants:

Facility Name	Design Capacity (MGD)	Ave. Daily Prod. (MGD)	High. Daily Prod. (MGD)
Totals			

Operational Statistics:

	WRIS	SDWIS MOR		WRIS	SDWIS MOR
Total Annual Vol. Produced (MG):					
Total Annual Vol. Purchased (MG):	65.442	64.112			
Total Annual Vol. Provided (MG):	65.442	64.112			
Estimated Annual Water Loss:	7%	5%			
Wholesale Customers: 1			Wholesale Usage (MG):	38.207	38.207
Residential Customers: 389			Residential Usage (MG):		
Commercial Customers: 11			Commercial Usage (MG):		
Institutional Customers:			Institutional Usage (MG):		
Industrial Customers:			Industrial Usage (MG):		
Other Customers:			Other Cust. Usage (MG):	22.678	
Total Customers: 401					
Flushing, Maintenance and Fire Protection Usage (MG):					
Total Annual Water Usage (MG):				60.885	60.885

Water supply inadequacies during normal operating conditions:

Not provided.

Water supply inadequacies during drought operating conditions:

Not provided.

Comments: **City just bid project wx21017019**

Estimated water loss is closer to 13% - pretty sure problem with some old meters. City is working on list of meters that need to be replaced.

Date Last Modified: 04.16.2018

WMP Site Visit - Survey Information:

Site Visit / Survey Date: **04.16.2018**

Survey Administrator: **Karyn Leverenz**

Principal Respondent: **Nathan Frazier, Betsy Frazier**

Other Respondent(s):

Comments: **Visit completed over the phone.**

Date Last Modified: 04.16.2018

SYSTEM MAINTENANCE

- The management of this system participates in an Area Water Management Planning Council (AWMPC).
- The management of this system participates in regular training activities.
- System operator(s) participate in regular training activities.
- This system has an asset management plan.
Date asset management plan last updated:
- This system as a capital improvement plan.
Date capital improvement plan last updated:
- This system has GIS capabilities.
Date GIS data last submitted to the WRIS:

This system has a policy manual in place containing the following items:

- Personnel Policies
- Line Maintenance Program
- Routine Pressure Checks
- Emergency Operation Procedures
- A Water Shortage Plan
- Standard Operating Procedures
- Meter Testing Program
- Pump Station Maintenance Schedule
- Backup Sources
- A Water Conservation Plan

Date of last DOW Sanitary Survey: Month: **6**, Year: **2015**

- This system has periodic service outages.
Cause(s):
- This system has periodic pump failures.
Cause(s):
- This system has periodic line breaks.
The following components are associated with periodic line breaks:
Typical line size:
Typical line location(s):
Typical cause(s):
Other cause(s):
Est. Water Loss Percentage:
- This system has localized problems.
The following components are associated with localized problems:
Problem location(s):
Problem diameter(s):
Problem pressure(s); **1 household may have a pressure problem**
Problem cause(s):
Other problem characteristics:
- This system has as-built plans (record drawings).
Est. degree of accuracy for as-built plans (%): **85%**
- This system uses an on-staff inspector(s) for construction projects.

Maintenance notes for this system:

Date Last Modified: **04.16.2018**

The following projects are associated with this system (included constructed projects):

PNUM	Applicant	Project Status	Funding Status	Schedule	Project Title	Agreed Order	Profile Modified	GIS Modified
WX21017005	City of North Middletown	Constructed	Fully Funded	0-2 Years	CITY OF NORTH MIDDLETOWN WATERLINE REPLACEMENT PROJECT	N	12.14.2010	07.28.2010
WX21017019	City of North Middletown	Constructed	Partially Funded	0-2 Years	North Middletown Water Tank Rehabilitation & SCADA	N	11.14.2016	03.20.2013

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

88. Provide a copy of the rate schedule North Middletown currently utilizes for its customers.

Response:

Please see the attachment.

City of North Middletown Utility Rates

Water Rates for Customers With Sewer Service (Per 1000 Gallons)

	Rate	Proposed Rate (7/1/17)
First 2000 Gallons	\$ 27.42	\$ 28.79
Next 3000 Gallons (per 1,000)	\$ 11.59	\$ 12.17
Next 5000 Gallons (per 1,000)	\$ 10.39	\$ 10.91
Over 10000 Gallons (per 1,000)	\$ 8.88	\$ 9.32

Water Rates for Customers Without Sewer Service (Per 1000 Gallons)

	Rate	Rate
First 2000 Gallons	\$ 32.23	\$ 33.84
Next 3000 Gallons (per 1,000)	\$ 11.89	\$ 12.48
Next 5000 Gallons (per 1,000)	\$ 10.69	\$ 11.22
Over 10000 Gallons (per 1,000)	\$ 9.18	\$ 9.64

Water Rates for Farm Customers

	Rate	Rate
Per 1000 Gallons	\$ 17.02	\$ 17.87

Sewer Rates (Per 1000 Gallons)

	Rate	Rate
First 2000 Gallons	\$ 22.85	\$ 23.99
Next 3000 Gallons (per 1,000)	\$ 9.64	\$ 10.12
Next 5000 Gallons (per 1,000)	\$ 8.35	\$ 8.77
Over 10000 Gallons (per 1,000)	\$ 6.93	\$ 7.28

Judy Water Rates Wholesale (Per 1000 Gallons) *Rate Set by PSC

	Rate	Rate
Up To 70,000 Gallons per Day	\$ 5.02 / 5.00	\$ 4.52 5.00
All Over 70,000 Gallons per Day	\$ 5.12 / 5.10	\$ 4.62 5.10

new

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 89.** Explain whether the water purchase contract whereby North Middletown sells water to Judy Water Association will be assigned to KAWC after KAWC acquires North Middletown.
- (a) If not, explain how Judy Water Association will obtain a source of supply for its customers.
 - (b) Identify the current wholesale water rates North Middletown sells to Judy Water Association.
 - (c) Identify the rate at which KAWC proposes to sell water to Judy Water Association.
 - (d) Identify the daily amount of water purchased by Judy Water Association for each day of the most recent 365 days on which KAWC has reported information.

Response:

- a. The purchase contract will be assigned to KAW upon closing of the transaction.
- b. The current wholesale rates from North Middletown to Judy Water are as follows:

	Rate per <u>1,000 gallons</u>
Up to 70,000 gallons per day	4.52
Over 70,000 gallons per day	4.62
- c. KAW will assume the rates that are currently in place upon closing of the transaction.
- d. Please see the attached report provided to KAW by Judy Water.

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD		STONEY			PUMP ST.				TOTAL ALL BOUR CO.	WATER	
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS	ACTUAL	PURCHASED			
	READING	READING	READING	READING	ACTUAL	READING	READING	USE			MONTH	
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.	TODATE				
1-Jan	116296000	116187000	325775000	325720000	54000	459947000	459898000	49000	103000	103000		
2-Jan	116427000	116296000	325815000	325775000	91000	459996000	459947000	49000	140000	243000		
3-Jan	116596000	116427000	325865000	325815000	119000	460057000	459996000	61000	180000	423000		
4-Jan	116729000	116596000	325935000	325865000	63000	460149000	460057000	92000	155000	578000		
5-Jan	116837000	116729000	326010000	325935000	33000	460196000	460149000	47000	80000	658000		
6-Jan	116946000	116837000	326085000	326010000	34000	460255000	460196000	59000	93000	751000		
7-Jan	117039000	116946000	326145000	326085000	33000	460304000	460255000	49000	82000	833000		
8-Jan	117141000	117039000	326205000	326145000	42000	460389000	460304000	85000	127000	960000		
9-Jan	117141000	117141000	326205000	326205000	0	460467000	460389000	78000	78000	1038000		
10-Jan	117364000	117141000	326335000	326205000	93000	460521000	460467000	54000	147000	1185000		
11-Jan	117478000	117364000	326405000	326335000	44000	460623000	460521000	102000	146000	1331000		
12-Jan	117591000	117478000	326480000	326405000	38000	460683000	460623000	60000	98000	1429000		
13-Jan	117702000	117591000	326555000	326480000	36000	460741000	460683000	58000	94000	1523000		
14-Jan	117815000	117702000	326625000	326555000	43000	460841000	460741000	100000	143000	1666000		
15-Jan	117934000	117815000	326705000	326625000	39000	460897000	460841000	56000	95000	1761000		
16-Jan	118052000	117934000	326780000	326705000	43000	460963000	460897000	66000	109000	1870000		
17-Jan	118172000	118052000	326860000	326780000	40000	461044000	460963000	81000	121000	1991000		
18-Jan	118293000	118172000	326935000	326860000	46000	461111000	461044000	67000	113000	2104000		
19-Jan	118417000	118293000	327015000	326935000	44000	461172000	461111000	61000	105000	2209000		
20-Jan	118538000	118417000	327090000	327015000	46000	461219000	461172000	47000	93000	2302000		
21-Jan	118655000	118538000	327160000	327090000	47000	461272000	461219000	53000	100000	2402000		
22-Jan	118778000	118655000	327235000	327160000	48000	461325000	461272000	53000	101000	2503000		
23-Jan	118898000	118778000	327310000	327235000	45000	461402000	461325000	77000	122000	2625000		
24-Jan	119015000	118898000	327385000	327310000	42000	461421000	461402000	19000	61000	2686000		
25-Jan	119101000	119015000	327435000	327385000	36000	461468000	461421000	47000	83000	2769000		
26-Jan	119182000	119101000	327475000	327435000	41000	461514000	461468000	46000	87000	2856000		
27-Jan	119266000	119182000	327525000	327475000	34000	461559000	461514000	45000	79000	2935000		
28-Jan	119353000	119266000	327575000	327525000	37000	461611000	461559000	52000	89000	3024000		
29-Jan	119439000	119353000	327625000	327575000	36000	461657000	461611000	46000	82000	3106000		
30-Jan	119528000	119439000	327670000	327625000	44000	461702000	461657000	45000	89000	3195000		
31-Jan	119618000	119528000	327725000	327670000	35000	461748000	461702000	46000	81000	3276000		
2018 TOTALS										1426000	1850000	3276000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	STONEY				PUMP ST.		TOTAL ALL BOUR CO.	WATER		
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS		ACTUAL	PURCHASED	
	READING	READING	READING	READING	ACTUAL	READING	READING		USE	MONTH	
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.		TODATE		
1-Mar	122138000	122054000	329295000	329240000	29000	463141000	463093000	48000	77000	77000	
2-Mar	122214000	122138000	329345000	329295000	26000	463189000	463141000	48000	74000	151000	
3-Mar	122304000	122214000	329405000	329345000	30000	463243000	463189000	54000	84000	235000	
4-Mar	122389000	122304000	329460000	329405000	30000	463295000	463243000	52000	82000	317000	
5-Mar	122474000	122389000	329515000	329460000	30000	463346000	463295000	51000	81000	398000	
6-Mar	122555000	122474000	329570000	329515000	26000	463394000	463346000	48000	74000	472000	
7-Mar	122638000	122555000	329620000	329570000	33000	463444000	463394000	50000	83000	555000	
8-Mar	122715000	122638000	329670000	329620000	27000	463492000	463444000	48000	75000	630000	
9-Mar	122792000	122715000	329720000	329670000	27000	463543000	463492000	51000	78000	708000	
10-Mar	122887000	122792000	329785000	329720000	30000	463589000	463543000	46000	76000	784000	
11-Mar	122961000	122887000	329830000	329785000	29000	463635000	463589000	46000	75000	859000	
12-Mar	123036000	122961000	329875000	329830000	30000	463681000	463635000	46000	76000	935000	
13-Mar	123116000	123036000	329925000	329875000	30000	463730000	463681000	49000	79000	1014000	
14-Mar	123194000	123116000	329975000	329925000	28000	463786000	463730000	56000	84000	1098000	
15-Mar	123272000	123194000	330025000	329975000	28000	463834000	463786000	48000	76000	1174000	
16-Mar	123351000	123272000	330075000	330025000	29000	463886000	463834000	52000	81000	1255000	
17-Mar	123425000	123351000	330120000	330075000	29000	463933000	463886000	47000	76000	1331000	
18-Mar	123508000	123425000	330175000	330120000	28000	463981000	463933000	48000	76000	1407000	
19-Mar	123601000	123508000	330235000	330175000	33000	464029000	463981000	48000	81000	1488000	
20-Mar	123685000	123601000	330290000	330235000	29000	464082000	464029000	53000	82000	1570000	
21-Mar	123765000	123685000	330340000	330290000	30000	464133000	464082000	51000	81000	1651000	
22-Mar	123843000	123765000	330390000	330340000	28000	464184000	464133000	51000	79000	1730000	
23-Mar	123927000	123843000	330445000	330390000	29000	464236000	464184000	52000	81000	1811000	
24-Mar	124006000	123927000	330490000	330445000	34000	464283000	464236000	47000	81000	1892000	
25-Mar	124081000	124006000	330535000	330490000	30000	464333000	464283000	50000	80000	1972000	
26-Mar	124161000	124081000	330585000	330535000	30000	464383000	464333000	50000	80000	2052000	
27-Mar	124246000	124161000	330640000	330585000	30000	464435000	464383000	52000	82000	2134000	
28-Mar	124327000	124246000	330690000	330640000	31000	464484000	464435000	49000	80000	2214000	
29-Mar	124412000	124327000	330740000	330690000	35000	464535000	464484000	51000	86000	2300000	
30-Mar	124492000	124412000	330785000	330740000	35000	464583000	464535000	48000	83000	2383000	
31-Mar	124570000	124492000	330835000	330785000	28000	464631000	464583000	48000	76000	2459000	
2018 TOTALS									921000	1538000	2459000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	STONEY				PUMP ST.			TOTAL ALL BOUR CO.	WATER		
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS	ACTUAL		PURCHASED		
	READING	READING	READING	READING	ACTUAL	READING	READING	USE		MONTH		
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.		TODATE			
1-May	127002000	126925000	332360000	332310000	27000	466209000	466155000	54000	81000	81000		
2-May	127002000	127002000	332360000	332360000	0	466267000	466209000	58000	58000	139000		
3-May	127002000	127002000	332360000	332360000	0	466316000	466267000	49000	49000	188000		
4-May	127221000	127002000	332520000	332360000	59000	466363000	466316000	47000	106000	294000		
5-May	127221000	127221000	332520000	332520000	0	466409000	466363000	46000	46000	340000		
6-May	127221000	127221000	332520000	332520000	0	466463000	466409000	54000	54000	394000		
7-May	127411000	127221000	332665000	332520000	45000	466511000	466463000	48000	93000	487000		
8-May	127411000	127411000	332665000	332665000	0	466557000	466511000	46000	46000	533000		
9-May	127541000	127411000	332770000	332665000	25000	466633000	466557000	76000	101000	634000		
10-May	127541000	127541000	332770000	332770000	0	466708000	466633000	75000	75000	709000		
11-May	127699000	127541000	332890000	332770000	38000	466788000	466708000	80000	118000	827000		
12-May	127699000	127699000	332890000	332890000	0	466864000	466788000	76000	76000	903000		
13-May	127699000	127699000	332890000	332890000	0	466927000	466864000	63000	63000	966000		
14-May	127976000	127699000	333100000	332890000	67000	467002000	466927000	75000	142000	1108000		
15-May	127976000	127976000	333100000	333100000	0	467095000	467002000	93000	93000	1201000		
16-May	128154000	127976000	333230000	333100000	48000	467169000	467095000	74000	122000	1323000		
17-May	128154000	128154000	333230000	333230000	0	467264000	467169000	95000	95000	1418000		
18-May	128323000	128154000	333360000	333230000	39000	467320000	467264000	56000	95000	1513000		
19-May	128323000	128323000	333360000	333360000	0	467439000	467320000	119000	119000	1632000		
20-May	128501000	128323000	333515000	333360000	23000	467554000	467439000	115000	138000	1770000		
21-May	128501000	128501000	333515000	333515000	0	467615000	467554000	61000	61000	1831000		
22-May	128501000	128501000	333515000	333515000	0	467732000	467615000	117000	117000	1948000		
23-May	128812000	128501000	333755000	333515000	71000	467818000	467732000	86000	157000	2105000		
24-May	128812000	128812000	333755000	333755000	0	467911000	467818000	93000	93000	2198000		
25-May	128812000	128812000	333755000	333755000	0	468022000	467911000	111000	111000	2309000		
26-May	129098000	128812000	333965000	333755000	76000	468100000	468022000	78000	154000	2463000		
27-May	129098000	129098000	333965000	333965000	0	468209000	468100000	109000	109000	2572000		
28-May	129098000	129098000	333965000	333965000	0	468323000	468209000	114000	114000	2686000		
29-May	129399000	129098000	334210000	333965000	56000	468419000	468323000	96000	152000	2838000		
30-May	129399000	129399000	334210000	334210000	0	468524000	468419000	105000	105000	2943000		
31-May	129599000	129399000	334355000	334210000	55000	468599000	468524000	75000	130000	3073000		
2018 TOTALS										629000	2444000	3073000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	STONEY				PUMP ST.			TOTAL ALL BOUR CO.	WATER
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS	ACTUAL		PURCHASED
	READING	READING	READING	READING	ACTUAL	READING	READING	USE		MONTH
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.		TODATE	
1-Jun	129684000	129599000	334435000	334355000	5000	468709000	468599000	110000	115000	115000
2-Jun	129684000	129684000	334435000	334435000	0	468805000	468709000	96000	96000	211000
3-Jun	129684000	129684000	334435000	334435000	0	468891000	468805000	86000	86000	297000
4-Jun	129952000	129684000	334635000	334435000	68000	468980000	468891000	89000	157000	454000
5-Jun	129952000	129952000	334635000	334635000	0	469099000	468980000	119000	119000	573000
6-Jun	130164000	129952000	334815000	334635000	32000	469225000	469099000	126000	158000	731000
7-Jun	130164000	130164000	334815000	334815000	0	469323000	469225000	98000	98000	829000
8-Jun	130384000	130164000	334998000	334815000	37000	469447000	469323000	124000	161000	990000
9-Jun	130384000	130384000	334998000	334998000	0	469559000	469447000	112000	112000	1102000
10-Jun	130384000	130384000	334998000	334998000	0	469682000	469559000	123000	123000	1225000
11-Jun	130708000	130384000	335230000	334998000	92000	469771000	469682000	89000	181000	1406000
12-Jun	130708000	130708000	335230000	335230000	0	469909000	469771000	138000	138000	1544000
13-Jun	130930000	130708000	335410000	335230000	42000	470041000	469909000	132000	174000	1718000
14-Jun	130930000	130930000	335410000	335410000	0	470173000	470041000	132000	132000	1850000
15-Jun	131158000	130930000	335610000	335410000	28000	470323000	470173000	150000	178000	2028000
16-Jun	131158000	131158000	335610000	335610000	0	470437000	470323000	114000	114000	2142000
17-Jun	131158000	131158000	335610000	335610000	0	470598000	470437000	161000	161000	2303000
18-Jun	131505000	131158000	335880000	335610000	77000	470728000	470598000	130000	207000	2510000
19-Jun	131505000	131505000	335880000	335880000	0	470858000	470728000	130000	130000	2640000
20-Jun	131746000	131505000	336060000	335880000	61000	471007000	470858000	149000	210000	2850000
21-Jun	131746000	131746000	336060000	336060000	0	471162000	471007000	155000	155000	3005000
22-Jun	131980000	131746000	336270000	336060000	24000	471282000	471162000	120000	144000	3149000
23-Jun	131980000	131980000	336270000	336270000	0	471365000	471282000	83000	83000	3232000
24-Jun	131980000	131980000	336270000	336270000	0	471480000	471365000	115000	115000	3347000
25-Jun	132322000	131980000	336530000	336270000	82000	471597000	471480000	117000	199000	3546000
26-Jun	132322000	132322000	336530000	336530000	0	471703000	471597000	106000	106000	3652000
27-Jun	132322000	132322000	336530000	336530000	0	471783000	471703000	80000	80000	3732000
28-Jun	132610000	132322000	336750000	336530000	68000	471889000	471783000	106000	174000	3906000
29-Jun	132610000	132610000	336750000	336750000	0	472032000	471889000	143000	143000	4049000
30-Jun	132825000	132610000	336910000	336750000	55000	472157000	472032000	125000	180000	4229000
					0			0	0	4229000
2018 TOTALS										
					671000				3558000	4229000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	STONEY				PUMP ST.			TOTAL ALL BOUR CO.	WATER PURCHASED MONTH TODATE		
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS	ACTUAL				
	READING	READING	READING	READING	ACTUAL	READING	READING	USE				
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.					
1-Jul	132944000	132825000	337000000	336910000	29000	472314000	472157000	157000	186000	186000		
2-Jul	133066000	132944000	337100000	337000000	22000	472461000	472314000	147000	169000	355000		
3-Jul	133184000	133066000	337200000	337100000	18000	472570000	472461000	109000	127000	482000		
4-Jul	133302000	133184000	337290000	337200000	28000	472701000	472570000	131000	159000	641000		
5-Jul	133416000	133302000	337380000	337290000	24000	472810000	472701000	109000	133000	774000		
6-Jul	133530000	133416000	337475000	337380000	19000	472943000	472810000	133000	152000	926000		
7-Jul	133641000	133530000	337570000	337475000	16000	473076000	472943000	133000	149000	1075000		
8-Jul	133754000	133641000	337660000	337570000	23000	473229000	473076000	153000	176000	1251000		
9-Jul	133874000	133754000	337755000	337660000	25000	473332000	473229000	103000	128000	1379000		
10-Jul	133995000	133874000	337845000	337755000	31000	473460000	473332000	128000	159000	1538000		
11-Jul	134115000	133995000	337935000	337845000	30000	473581000	473460000	121000	151000	1689000		
12-Jul	134232000	134115000	338030000	337935000	22000	473707000	473581000	126000	148000	1837000		
13-Jul	134232000	134232000	338030000	338030000	0	473809000	473707000	102000	102000	1939000		
14-Jul	134452000	134232000	338200000	338030000	50000	473916000	473809000	107000	157000	2096000		
15-Jul	134546000	134452000	338270000	338200000	24000	473985000	473916000	69000	93000	2189000		
16-Jul	134661000	134546000	338360000	338270000	25000	474088000	473985000	103000	128000	2317000		
17-Jul	134772000	134661000	338450000	338360000	21000	474166000	474088000	78000	99000	2416000		
18-Jul	134867000	134772000	338525000	338450000	20000	474267000	474166000	101000	121000	2537000		
19-Jul	134952000	134867000	338580000	338525000	30000	474327000	474267000	60000	90000	2627000		
20-Jul	135042000	134952000	338650000	338580000	20000	474436000	474327000	109000	129000	2756000		
21-Jul	135130000	135042000	338720000	338650000	18000	474464000	474436000	28000	46000	2802000		
22-Jul	135209000	135130000	338775000	338720000	24000	474464000	474464000	0	24000	2826000		
23-Jul	135287000	135209000	338830000	338775000	23000	474464000	474464000	0	23000	2849000		
24-Jul	135364000	135287000	338885000	338830000	22000	474536000	474464000	72000	94000	2943000		
25-Jul	135459000	135364000	338960000	338885000	20000	474614000	474536000	78000	98000	3041000		
26-Jul	135538000	135459000	339010000	338960000	29000	474670000	474614000	56000	85000	3126000		
27-Jul	135630000	135538000	339080000	339010000	22000	474781000	474670000	111000	133000	3259000		
28-Jul	135739000	135630000	339160000	339080000	29000	474874000	474781000	93000	122000	3381000		
29-Jul	135850000	135739000	339245000	339160000	26000	475014000	474874000	140000	166000	3547000		
30-Jul	135961000	135850000	339330000	339245000	26000	475107000	475014000	93000	119000	3666000		
31-Jul	136071000	135961000	339420000	339330000	20000	475213000	475107000	106000	126000	3792000		
	2018 TOTALS									736000	3056000	3792000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	STONEY			PUMP ST.		TOTAL ALL BOUR CO.	WATER PURCHASED MONTH TODATE			
	PRESENT READING	PREVIOUS READING	PRESENT READING	PREVIOUS READING	STONEY ACTUAL USAGE	PRESENT READING			PREVIOUS READING	ACTUAL USE	
	METER 1	METER 1	METER 2	METER 2	USAGE	PUMP ST.			PUMP ST.	PUMP ST.	
1-Aug	136164000	136071000	339490000	339420000	23000	475295000	475213000	82000	105000	105000	
2-Aug	136250000	136164000	339555000	339490000	21000	475357000	475295000	62000	83000	188000	
3-Aug	136347000	136250000	339630000	339555000	22000	475441000	475357000	84000	106000	294000	
4-Aug	136445000	136347000	339705000	339630000	23000	475538000	475441000	97000	120000	414000	
5-Aug	136557000	136445000	339800000	339705000	17000	475678000	475538000	140000	157000	571000	
6-Aug	136667000	136557000	339885000	339800000	25000	475784000	475678000	106000	131000	702000	
7-Aug	136777000	136667000	339970000	339885000	25000	475888000	475784000	104000	129000	831000	
8-Aug	136892000	136777000	340055000	339970000	30000	475967000	475888000	79000	109000	940000	
9-Aug	137000000	136892000	340135000	340055000	28000	476075000	475967000	108000	136000	1076000	
10-Aug	137101000	137000000	340200000	340135000	36000	476175000	476075000	100000	136000	1212000	
11-Aug	137206000	137101000	340280000	340200000	25000	476295000	476175000	120000	145000	1357000	
12-Aug	137311000	137206000	340365000	340280000	20000	476380000	476295000	85000	105000	1462000	
13-Aug	137424000	137311000	340455000	340365000	23000	476508000	476380000	128000	151000	1613000	
14-Aug	137531000	137424000	340540000	340455000	22000	476606000	476508000	98000	120000	1733000	
15-Aug	137643000	137531000	340625000	340540000	27000	476719000	476606000	113000	140000	1873000	
16-Aug	137748000	137643000	340710000	340625000	20000	476769000	476719000	50000	70000	1943000	
17-Aug	137819000	137748000	340760000	340710000	21000	476829000	476769000	60000	81000	2024000	
18-Aug	137895000	137819000	340815000	340760000	21000	476904000	476829000	75000	96000	2120000	
19-Aug	137962000	137895000	340860000	340815000	22000	476904000	476904000	0	22000	2142000	
20-Aug	138060000	137962000	340935000	340860000	23000	477047000	476904000	143000	166000	2308000	
21-Aug	138175000	138060000	341020000	340935000	30000	477122000	477047000	75000	105000	2413000	
22-Aug	138278000	138175000	341095000	341020000	28000	477177000	477122000	55000	83000	2496000	
23-Aug	138363000	138278000	341155000	341095000	25000	477256000	477177000	79000	104000	2600000	
24-Aug	138454000	138363000	341220000	341155000	26000	477354000	477256000	98000	124000	2724000	
25-Aug	138553000	138454000	341300000	341220000	19000	477439000	477354000	85000	104000	2828000	
26-Aug	138648000	138553000	341370000	341300000	25000	477531000	477439000	92000	117000	2945000	
27-Aug	138749000	138648000	341450000	341370000	21000	477654000	477531000	123000	144000	3089000	
28-Aug	138861000	138749000	341535000	341450000	27000	477779000	477654000	125000	152000	3241000	
29-Aug	138978000	138861000	341620000	341535000	32000	477844000	477779000	65000	97000	3338000	
30-Aug	139096000	138978000	341690000	341620000	48000	477939000	477844000	95000	143000	3481000	
31-Aug	139203000	139096000	341770000	341690000	27000	477996000	477939000	57000	84000	3565000	
2018 TOTALS									782000	2783000	3565000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD	PREVIOUS READING METER 1	STONEY	PREVIOUS READING METER 2	STONEY ACTUAL USAGE	PUMP ST.	PREVIOUS READING PUMP ST.	ACTUAL USE PUMP ST.	TOTAL ALL BOUR CO.	WATER PURCHASED MONTH TODATE
	PRESENT READING		PRESENT READING			PRESENT READING				
	METER 1		METER 2			METER 2				
1-Oct	142257000	142177000	343860000	343800000	20000	480151000	480101000	50000	70000	70000
2-Oct	142341000	142257000	343915000	343860000	29000	480205000	480151000	54000	83000	153000
3-Oct	142417000	142341000	343960000	343915000	31000	480254000	480205000	49000	80000	233000
4-Oct	142496000	142417000	344010000	343960000	29000	480327000	480254000	73000	102000	335000
5-Oct	142591000	142496000	344080000	344010000	25000	480410000	480327000	83000	108000	443000
6-Oct	142667000	142591000	344125000	344080000	31000	480460000	480410000	50000	81000	524000
7-Oct	142740000	142667000	344170000	344125000	28000	480510000	480460000	50000	78000	602000
8-Oct	142827000	142740000	344235000	344170000	22000	480599000	480510000	89000	111000	713000
9-Oct	142911000	142827000	344295000	344235000	24000	480675000	480599000	76000	100000	813000
10-Oct	143007000	142911000	344370000	344295000	21000	480747000	480675000	72000	93000	906000
11-Oct	143082000	143007000	344425000	344370000	20000	480816000	480747000	69000	89000	995000
12-Oct	143156000	143082000	344480000	344425000	19000	480886000	480816000	70000	89000	1084000
13-Oct	143224000	143156000	344530000	344480000	18000	480945000	480886000	59000	77000	1161000
14-Oct	143286000	143224000	344570000	344530000	22000	480993000	480945000	48000	70000	1231000
15-Oct	143350000	143286000	344620000	344570000	14000	481038000	480993000	45000	59000	1290000
16-Oct	143419000	143350000	344665000	344620000	24000	481087000	481038000	49000	73000	1363000
17-Oct	143488000	143419000	344710000	344665000	24000	481135000	481087000	48000	72000	1435000
18-Oct	143554000	143488000	344750000	344710000	26000	481183000	481135000	48000	74000	1509000
19-Oct	143620000	143554000	344800000	344750000	16000	481237000	481183000	54000	70000	1579000
20-Oct	143683000	143620000	344840000	344800000	23000	481289000	481237000	52000	75000	1654000
21-Oct	143746000	143683000	344885000	344840000	18000	481384000	481289000	95000	113000	1767000
22-Oct	143822000	143746000	344940000	344885000	21000	481428000	481384000	44000	65000	1832000
23-Oct	143898000	143822000	345000000	344940000	16000	481480000	481428000	52000	68000	1900000
24-Oct	143964000	143898000	345045000	345000000	21000	481529000	481480000	49000	70000	1970000
25-Oct	144030000	143964000	345090000	345045000	21000	481578000	481529000	49000	70000	2040000
26-Oct	144093000	144030000	345130000	345090000	23000	481628000	481578000	50000	73000	2113000
27-Oct	144151000	144093000	345180000	345130000	8000	481675000	481628000	47000	55000	2168000
28-Oct	144215000	144151000	345225000	345180000	19000	481726000	481675000	51000	70000	2238000
29-Oct	144283000	144215000	345275000	345225000	18000	481776000	481726000	50000	68000	2306000
30-Oct	144351000	144283000	345325000	345275000	18000	481828000	481776000	52000	70000	2376000
31-Oct	144416000	144351000	345365000	345325000	25000	481876000	481828000	48000	73000	2449000
2018 TOTALS										
					674000				1775000	2449000

MASTER METER READINGS BOURBON COUNTY ONLY YEAR 2018

DATE	WIN.ROAD		STONEY			PUMP ST.			TOTAL ALL BOUR CO.	WATER PURCHASED MONTH TODATE		
	PRESENT	PREVIOUS	PRESENT	PREVIOUS	STONEY	PRESENT	PREVIOUS	ACTUAL				
	READING	READING	READING	READING	ACTUAL	READING	READING	USE				
METER 1	METER 1	METER 2	METER 2	USAGE		PUMP ST.	PUMP ST.					
1-Dec	146174000	146116000	346570000	346540000	28000	483196000	483153000	43000	71000	71000		
2-Dec	146232000	146174000	346605000	346570000	23000	483239000	483196000	43000	66000	137000		
3-Dec	146304000	146232000	346650000	346605000	27000	483283000	483239000	44000	71000	208000		
4-Dec	146363000	146304000	346690000	346650000	19000	483327000	483283000	44000	63000	271000		
5-Dec	146421000	146363000	346725000	346690000	23000	483371000	483327000	44000	67000	338000		
6-Dec	146480000	146421000	346765000	346725000	19000	483415000	483371000	44000	63000	401000		
7-Dec	146544000	146480000	346810000	346765000	19000	483466000	483415000	51000	70000	471000		
8-Dec	146608000	146544000	346850000	346810000	24000	483513000	483466000	47000	71000	542000		
9-Dec	146667000	146608000	346890000	346850000	19000	483562000	483513000	49000	68000	610000		
10-Dec	146729000	146667000	346935000	346890000	17000	483613000	483562000	51000	68000	678000		
11-Dec	146795000	146729000	346980000	346935000	21000	483671000	483613000	58000	79000	757000		
12-Dec	146860000	146795000	347025000	346980000	20000	483722000	483671000	51000	71000	828000		
13-Dec	146925000	146860000	347075000	347025000	15000	483781000	483722000	59000	74000	902000		
14-Dec	146992000	146925000	347125000	347075000	17000	483872000	483781000	91000	108000	1010000		
15-Dec	147052000	146992000	347170000	347125000	15000	483917000	483872000	45000	60000	1070000		
16-Dec	147052000	147052000	347170000	347170000	0	483962000	483917000	45000	45000	1115000		
17-Dec	147170000	147052000	347250000	347170000	38000	484010000	483962000	48000	86000	1201000		
18-Dec	147227000	147170000	347290000	347250000	17000	484055000	484010000	45000	62000	1263000		
19-Dec	147286000	147227000	347335000	347290000	14000	484107000	484055000	52000	66000	1329000		
20-Dec	147363000	147286000	347395000	347335000	17000	484154000	484107000	47000	64000	1393000		
21-Dec	147414000	147363000	347425000	347395000	21000	484196000	484154000	42000	63000	1456000		
22-Dec	147450000	147414000	347440000	347425000	21000	484237000	484196000	41000	62000	1518000		
23-Dec	147501000	147450000	347475000	347440000	16000	484237000	484237000	0	16000	1534000		
24-Dec	147559000	147501000	347515000	347475000	18000	484283000	484237000	46000	64000	1598000		
25-Dec	147619000	147559000	347560000	347515000	15000	484333000	484283000	50000	65000	1663000		
26-Dec	147675000	147619000	347600000	347560000	16000	484381000	484333000	48000	64000	1727000		
27-Dec	147731000	147675000	347635000	347600000	21000	484425000	484381000	44000	65000	1792000		
28-Dec	147787000	147731000	347670000	347635000	21000	484466000	484425000	41000	62000	1854000		
29-Dec	147830000	147787000	347690000	347670000	23000	484508000	484466000	42000	65000	1919000		
30-Dec	147874000	147830000	347720000	347690000	14000	484514000	484508000	6000	20000	1939000		
31-Dec	147931000	147874000	347765000	347720000	12000	484551000	484514000	37000	49000	1988000		
2018 TOTALS										590000	1398000	1988000

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 90.** Identify and provide copies of any special contracts North Middletown has for the provision of water service to other customers that is not covered by its general rate schedule or by the water purchase contract with Judy Water Association.

Response:

North Middletown has no additional special contracts for the provision of water service.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell, Brent E. O'Neill

- 91.** Refer to the acquisition of Eastern Rockcastle Water Association.
- (a) Provide a copy of the asset purchase agreement between KAWC and Eastern Rockcastle.
 - (b) Identify the purchase price of the Eastern Rockcastle system.
 - (c) Identify the net book value of the Eastern Rockcastle system as of the date of closing.
 - (d) Explain how the net book value of the Eastern Rockcastle system identified above was determined.
 - (e) Identify all capital improvements KAWC has made to Eastern Rockcastle's system since its acquisition and the cost of those capital improvements.

Response:

- a. Please see the attachment.
- b. The purchase price of the Eastern Rockcastle system was \$831,515.59 which includes \$58,905.19 for grant payback.
- c. The net book value of the water assets for the Eastern Rockcastle system was \$811,028.55 at closing. This book value includes \$58,905.19 for grant payback. The date of the valuation was 12/31/17.
- d. The valuation of the water assets were provided to KAWC by Eastern Rockcastle Water Association. The details provided include utility plant assets, accumulated depreciation and net CIAC.
- e. Capital improvements made to Eastern Rockcastle's system as of December 31, 2018 are shown below:

Category	Amount
GIS conversion	35,070.77
Hydrant, valve, and manhole replacements	11,505.73
Lab equipment	710.48
Main replacements	34,335.37
Meter replacements	66,712.68
Office renovation	16,538.98
Property surveys	20,758.52
Storage facility renovation	20,074.56
Total	205,707.09

ASSET PURCHASE AGREEMENT

This Asset Purchase Agreement ("Agreement") is made and entered into this ^{19th} day of ~~September~~, 2017 ("Effective Date") by and between **Kentucky-American Water Company**, a Kentucky public utility corporation ("Buyer"), and **Eastern Rockcastle Water Association**, ("Seller"). Hereinafter, the Buyer and Seller may be individually referred to as a "party" or jointly as the "parties".

RECITALS:

A. Seller owns and operates a water system which provides water services to customers located within its service area (the "Service Area") (collectively referred to as the "Business").

B. Buyer desires to acquire and Seller desires to sell the Assets of Seller relating to the Business pursuant to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the foregoing recitals and the covenants contained herein and in exchange for other consideration the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ARTICLE 1 **Definitions and Related Matters**

For purposes of this Agreement and all documents executed in connection with this Agreement, the capitalized terms shall have the meanings assigned to them herein or in Schedule 1 and the rules of construction set forth in Schedule 1 shall govern.

ARTICLE 2 **Purchase and Sale of Assets; Closing**

2.1 Transfer and Description of Assets. Subject to and upon all other terms and conditions of this Agreement, effective as of the Effective Time on the Closing Date, Seller shall sell, convey, transfer, assign and deliver to Buyer free and clear of all Encumbrances, and Buyer shall acquire from Seller, all of Seller's right, title and interest in and to all of Seller's assets, other than the Excluded Assets, regardless of where located, which are, could be, or in the future would be part of the transmission and distribution systems used to provide water service to Seller's water customers, including but not limited to the following:

(a) all Real Property including any easements, rights-of-way or rights granted to the Seller in furtherance of the operation of the Business including but not limited to that described in Schedule 3.4;

(b) all Tangible Personal Property, as defined in Schedule 1 Definitions.

(c) all data and Records related to Seller's operation of the Business, including, but not limited to, the customer list which shall include the service and billing address of all customers of the Seller and, subject to applicable Law, copies of all Records described in Section 2.2(b);

(d) all Permits and all pending applications therefore, renewals thereof or exemptions therefrom which are necessary or advisable in the operation of Seller's Business, including but not limited to those listed in Schedule 3.8; and

(e) all of the intangible rights and property of Seller utilized by Seller in the operation of the Business.

All of the foregoing shall be hereinafter referred to collectively as the "Assets".

2.2 Excluded Assets. Notwithstanding anything to the contrary contained in Section 2.1 or elsewhere in this Agreement, the following Assets of Seller are not part of the sale and purchase

contemplated hereunder, are excluded from the Assets, and shall remain the property of Seller after the Closing:

- (a) all insurance policies and rights thereunder;
- (b) all personnel Records and other Records that Seller is required by Law to retain in its possession;
- (c) all rights in connection with and assets of the employee benefit plans and employment or independent contractor Contracts;
- (d) all rights of Seller under the Transaction Documents;
- (e) cash, cash equivalents and short-term investments;
- (f) the assets listed on Schedule 2.2;
- (g) accounts receivable arising prior to the Effective Time; and
- (h) Customer Service Connections, which shall remain the property of the customer.

All of the foregoing shall be hereinafter referred to collectively as the "Excluded Assets".

2.3 Consideration. The consideration for the Assets (the "Purchase Price") will be determined on the day of closing. The final purchase price will be the dollar amount required for the Seller to clear its books and not to exceed \$770,000. The Assets shall be in substantially the same condition, absent normal wear and tear, and fully able to perform the functions they are intended to at the time of Closing. If any of the Assets are not able to perform the function they are intended to, the Buyer, at its option, may request an adjustment to the purchase price to compensate for the deterioration or loss of said Asset. In the event the parties are not able to agree to the amount of the adjustment, the adjustment amount shall be the amount necessary to return the Asset to the condition it was in on the Effective Date of this Agreement.

2.4 Liabilities. The Buyer shall not be responsible for any of the Liabilities of Seller, including any that may arise after Closing, and any such Liabilities shall remain the sole responsibility of and shall be retained, paid, performed and discharged solely by Seller.

2.5 Closing. The purchase and sale provided for in this Agreement will take place at a location and time of day agreed upon by the parties (the "Closing"). The date of the Closing shall be no later than thirty days following approval by the Public Service Commission (PSC) or at such later date as is agreed upon by the parties. Closing shall be effective as of 5:00 pm local time (the "Effective Time") on the actual date of Closing (the "Closing Date").

2.6 Closing Obligations.

(a) At or prior to Closing, Seller shall deliver to Buyer the following documents, duly executed:

(i) a Bill of Sale for all of the Assets that are Tangible Personal Property in a form reasonably acceptable to Buyer;

(ii) an assignment of all of the Assets that are intangible personal property in a form reasonably acceptable to Buyer;

(iii) for each interest in Real Property identified on Schedule 3.4, a recordable warranty deed or such other appropriate document or instrument of transfer or approval, as the case may require, each in form and substance satisfactory to Buyer and its legal counsel. Notwithstanding the fact that the same may not be listed on Schedule 3.4, Seller must provide easements

or other transferable property rights to Buyer for all mains used in the Business, which are not located on or in public rights-of-way, and must provide assignments of public rights-of-way Permits with only those conditions acceptable to Buyer for all mains located in municipal, county or state owned public rights-of-way;

(iv) such other deeds, bills of sale, assignments, certificates of title, documents and other instruments of transfer and conveyance as may be reasonably requested by Buyer, each in form and substance satisfactory to Buyer;

(v) a certificate as to the accuracy of Seller's representations and warranties as of the Effective Date of this Agreement and as of Closing in accordance with Section 5.1(a) and as to its compliance with and performance of its covenants and obligations to be performed or complied with at or before Closing in accordance with Section 5.1(b);

(vi) a certificate of the Secretary of Seller, dated as of the Closing, certifying: (A) that attached are true copies of the duly adopted resolutions of the Seller's governing body authorizing the execution of this Agreement and the sale of all Assets; and (B) the incumbency, signatures and authority of the governing body members of Seller executing this Agreement or any agreement contemplated hereby on behalf of Seller;

(vii) a general release in a form reasonably acceptable to Buyer;

(viii) a legal opinion of Seller's legal counsel, affirmatively opining to such matters as Buyer or its legal counsel may reasonably request, including but not limited to the due authorization and execution of this Agreement by Seller and the enforceability thereof; and the Seller's compliance with any applicable Kentucky statutes or regulations applicable to its sale of its water utility system.

(b) At or prior to Closing, Buyer shall deliver to Seller, the following documents, duly executed, or funds:

(i) The Purchase Price, by wire transfer or other immediately available funds, to an account specified by the Seller;

(ii) a certificate as to the accuracy of Buyer's representations and warranties as of the Effective Date of this Agreement and as of Closing in accordance with Section 5.2(a) and as to its compliance with and performance of its covenants and obligations to be performed or complied with at or before Closing in accordance with Section 5.2(b);

(iii) a certificate of the company secretary of Buyer, dated as of the Closing, certifying: (A) that attached are true copies of the duly adopted resolutions of the Buyer's board of directors authorizing this Agreement and the purchase of all Assets; and (B) the incumbency, signatures and authority of the officer or officers of Buyer executing this Agreement or any agreement contemplated hereby on behalf of Buyer; and

(iv) a certificate of existence issued by the Secretary of State of Kentucky with respect to Buyer, dated not earlier than thirty (30) days prior to Closing.

ARTICLE 3

Representations and Warranties of Seller

Seller hereby makes the following representations and warranties to Buyer:

3.1 Organization. Seller is a water association duly organized and validly existing under the Laws of the State of Kentucky, with full power and authority to conduct the Business as it is now being conducted and to own and operate its Assets.

3.2 Enforcement; Authority; No Conflict.

(a) This Agreement constitutes, and the Transaction Documents (when executed and delivered) will constitute, a legal, valid and binding obligation of Seller, enforceable against Seller in accordance with its terms. Seller has the absolute and unrestricted right, power and authority to execute and deliver this Agreement and the Transaction Documents to which it is a party and to perform its obligations hereunder and thereunder, and such action has been duly authorized by all necessary action by Seller's governing body;

(b) Neither the execution and delivery of this Agreement nor the consummation of the Contemplated Transaction will, directly or indirectly (with or without notice or lapse of time):

(i) contravene, conflict with, or result in a violation of: (A) any other agreements of Seller; or (B) any resolution adopted by the governing body of Seller;

(ii) contravene, conflict with, or result in a violation of or give any Governmental Authority or other Person the right to challenge any of the Contemplated Transaction or to exercise any remedy or obtain any relief under any Laws or any Order to which Seller or any of the Assets may be subject;

(iii) contravene, conflict with or result in a violation of any of the terms or requirements of or give any Governmental Authority the right to revoke, withdraw, suspend, cancel, terminate or modify any Permit or other authorization by a Governmental Authority that is held by Seller or that otherwise relates to the Business or any of the Assets;

(iv) contravene, conflict with or result in a violation or breach of any provision of, require the Consent of any Person, or give any Person the right to declare a default or exercise any remedy under or to accelerate the maturity or performance of or to cancel, terminate or modify any Contract, indenture, mortgage, note, lease, bond, grant, or other instrument or document of which Seller is a party or by which any of the Assets are bound; or

(v) result in the imposition or creation of any Encumbrance upon or with respect to any of the Assets, except as contemplated by this Agreement.

3.3 Assets. Seller has good and marketable title to all of the Assets. The Assets are free and clear of any and all Encumbrances whatsoever, including any liens, loans, bonds or grants from any federal or state agency for the purchase or construction of the Assets. None of the Assets are leased or on loan by Seller to any third party. The Assets constitute all property necessary for the operation of the Business in the manner Seller currently operates.

3.4 Real Property; Easements. To Seller's best knowledge and belief, Seller has good and marketable title to, or a valid and binding leasehold interest in, those parcels and tracts of land and those leases, licenses, easements or rights-of-way used in the operation of the Business, together with all fixtures, fittings, buildings, structures and other improvements erected therein or thereon and all appurtenances thereto (the "Real Property"). The Real Property includes but is not necessarily limited to the property described in Schedule 3.4.

3.5 Tangible Personal Property. Tangible Personal Property is all such property as defined in Schedule 1, Definition of Tangible Personal Property.

3.6 Contracts. Set forth on Schedule 3.6 is a complete and correct list of all Contracts related to the Business to which Seller is a party. Seller has delivered or caused to be delivered to Buyer correct and complete copies of each Contract (including all amendments thereto), a description of the terms of each Contract which is not in writing, and all documents affecting the rights or obligations of any party thereto. The Contracts have not been modified or amended except as disclosed on Schedule 3.6. Each Contract is valid and enforceable against Seller in accordance with its terms and is in full force and effect, and each Contract constitutes a legal, valid and binding obligation of the other parties thereto,

enforceable against them in accordance with its terms. No default and no event which, with the giving of notice, lapse of time, or both, would be a default has occurred under any Contract. There are no setoffs, counterclaims or disputes existing or asserted with respect to such Contracts, and Seller has not made any agreement with any other party thereto for any deduction from or increase to any amount payable thereunder. There are no facts, events or occurrences which in any way impair the validity or enforcement of any Contract or tend to reduce or increase the amounts payable thereunder. Seller has not, directly or indirectly, by operation of Law or otherwise, transferred or assigned all or any part of its right, title or interest in and to any Contract to any other Person. There are no Proceedings pending nor threatened against any party to any of the Contracts which relate to the subject matter of the Contracts.

3.7 Environmental Matters.

Except as set forth on Schedule 3.7(a):

(a) Seller is and at all times has been in full compliance with and has not been and is not in violation of or liable under any applicable Environmental Law. Seller has no basis to expect nor has it received any actual or threatened Order, notice or other communication from any Governmental Authority or private citizen acting in the public interest of any actual or potential violation or failure to comply with any Environmental Law or of any actual or threatened obligation to undertake or bear the cost of any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest or with respect to the Real Property or any other real property at or to which Hazardous Materials were generated, manufactured, refined, transferred, imported, used or processed by Seller or any other Person for whose conduct it is or may be held responsible, or from which Hazardous Materials have been transported, treated, stored, handled, transferred, disposed, recycled or received.

(b) There are no pending or threatened claims, Encumbrances or other restrictions of any nature, resulting from any Environmental, Health and Safety Liabilities or arising under or pursuant to any Environmental Law with respect to or affecting the Assets or any other properties (whether real, personal or mixed) in which Seller has or had an interest.

(c) Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has received any citation, directive, inquiry, notice, Order, summons, warning or other communication that relates to Hazardous Activity, Hazardous Materials or any alleged, actual or potential violation or failure to comply with any Environmental Law or of any alleged, actual or potential obligation to undertake or bear the cost of any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest or with respect to any other real property to which Hazardous Materials generated, manufactured, refined, transferred, imported, used or processed by Seller or any other Person for whose conduct it is or may be held responsible, have been transported, treated, stored, handled, transferred, disposed, recycled or received.

(d) Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has any Environmental, Health and Safety Liabilities with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller (or any predecessor) has or has had an interest or at any property geologically or hydrologically adjoining the Assets or any other properties (whether real, personal or mixed).

(e) There are no Hazardous Materials present on or in the Environment at the Real Property or at any geologically or hydrologically adjoining property, including any Hazardous Materials contained in barrels, above or underground storage tanks, landfills, land deposits, dumps, equipment (whether moveable or fixed) or other containers, either temporary or permanent and deposited or located in land, water, sumps or any other part of the Real Property or such adjoining property or incorporated into any structure therein or thereon. Neither Seller nor any other Person for whose conduct it is or may be held to be responsible has permitted or conducted, or is aware of, any Hazardous Activity conducted with respect to the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest except in material compliance with all applicable Environmental Laws.

(f) There has been no Release or threat of Release, of any Hazardous Materials at or from the Assets or any other properties (whether real, personal or mixed) in which Seller has or has had an interest, or any geologically or hydrologically adjoining property, whether by Seller or any other Person.

(g) Seller has delivered to Buyer true and complete copies and results of any reports, studies, analyses, tests or monitoring possessed or initiated by Seller pertaining to Hazardous Materials or Hazardous Activities in, on or under the Real Property, or concerning compliance by Seller or any other Person for whose conduct it is or may be held to be responsible, with Environmental Laws, said reports, studies, etc. to include without limitation, any and all Phase I environmental reports now or hereafter in the possession or control of Seller.

3.8 Permits. Set forth on Schedule 3.8 is a complete and correct list of all Permits used by Seller in the operation of the Business. Such Permits constitute all Permits necessary for the operation of the Business and all such Permits are valid and subsisting and in full force and effect. There exists no fact or circumstance which is reasonably likely to cause any Permit to be revoked or materially altered after the Closing Date.

3.9 Insurance. Seller maintains and has maintained appropriate insurance necessary for the full protection of all of its Assets, Business, operations, products and services. All such policies are in full force and effect and Seller will use commercially reasonable efforts to cause such policies to be outstanding and in full force and effect up to the Effective Time on the Closing Date and the premiums therefor have been paid in full as they become due and payable. There are no pending Proceedings arising out of, based upon or with respect to any of such policies of insurance and no basis for any such Proceedings exists which will result in an Encumbrance against the Assets, Business, operations, products or services. Seller is not in default with respect to any provisions contained in any such insurance policies and no insurance provider is in default with respect to such insurance policies.

3.10 No Material Adverse Change. There have been no material adverse changes in the Business or Assets nor has there been any material adverse change in the relationships Seller maintains with its customers, employees and Governmental Authorities nor are there any events, transactions or other facts which exist or have occurred and which are likely to have an adverse effect on the foregoing.

3.11 Conduct of Business In Ordinary Course. Seller has operated the Business only in the ordinary course of business. Without limitation of the foregoing, since such date, Seller has not entered into, amended, terminated or received notice of termination of any Contract or Permit.

3.12 Proceedings. Other than as set forth on Schedule 3.12, there are no Proceedings pending or threatened against Seller or directly affecting any of the Assets or the Business by or on account of any Person or before any Governmental Authority and there is no valid basis for any such Proceeding. Seller has not been charged with, nor is it under investigation with respect to any charge which has not been resolved to their favor concerning any violation of any applicable Law with respect to any of the Assets or the Business and there is no valid basis for any such charge or investigation. No judgment, Order, writ, injunction, decree, assessment or other command of any Governmental Authority affecting Seller or any of the Assets or the Business has been entered which is presently in effect. There is no Proceeding pending or threatened which challenges the validity of this Agreement or the Contemplated Transaction or otherwise seeks to prevent, directly or indirectly, the consummation of the Contemplated Transaction, nor is there any valid basis for any such Proceeding.

3.13 Compliance with Laws. Seller is in compliance with all Laws applicable to the Assets and the operation of the Business and has not committed any violation of any Law applicable to the Assets and/or operation of the Business. Seller has not received any notice or other communication (whether oral or written) from any Governmental Authority or any other Person regarding (i) any actual, alleged, possible or potential violation of, or failure to comply with, any Law or (ii) any actual, alleged, possible or potential obligation on the part of Seller to undertake, or to bear all or any portion of the cost of, any remedial action of any nature. The Assets, in their current condition, are capable of complying with all Laws.

3.14 Material Omissions. Independent of and in addition to the foregoing representations and warranties contained in this Article 3, neither this Agreement nor any written statement, list, certificate or other information furnished by or on behalf of Seller in response to specific written requests made by Buyer or Buyer's representatives or attorneys contains an untrue statement of a material fact or omits to state a material fact necessary to make the statements contained herein or therein not misleading.

ARTICLE 4 Representations and Warranties of Buyer

Buyer hereby makes the following representations and warranties to Seller:

4.1 Organization. Buyer is a duly organized and validly existing public utility corporation under the Laws of the State of Kentucky and at Closing has the power and authority to own, lease and operate its assets and to conduct this Business as it is now being conducted.

4.2 Enforcement; Authority; No Conflict.

(a) This Agreement constitutes the legal, valid and binding obligation of Buyer, enforceable against Buyer in accordance with its terms. Buyer has the absolute and unrestricted right, power and authority to execute and deliver this Agreement and the Transaction Documents to which it is a party and to perform its obligations hereunder and thereunder, and such action has been duly authorized by all necessary action by Buyer's board of directors.

(b) Neither the execution and delivery of this Agreement, nor the consummation of the Contemplated Transaction nor compliance by Buyer with any of the provisions hereof will result in: (i) a violation of or a conflict with any provision of the Organizational Documents of Buyer; (ii) a material breach of or default under any term, condition or provision of any Contract to which Buyer is a party, or an event which, with the giving of notice, lapse of time, or both, would result in any such breach or default; (iii) a material violation of any applicable Law, Order, judgment, writ, injunction, decree or award or any event which, with the giving of notice, lapse of time, or both, would result in any such violation; or (iv) any Person having the right to enjoin, rescind or otherwise prevent or impede the Contemplated Transaction or to obtain Damages from Seller or to obtain any other judicial or administrative relief.

4.3 Proceedings. There is no Proceeding pending nor, to the Knowledge of Buyer, threatened which challenges the validity of this Agreement or the Contemplated Transaction or otherwise seeks to prevent, directly or indirectly, the consummation of such transactions, nor, to the Knowledge of Buyer, is there a valid basis for any such Proceeding.

ARTICLE 5 Conditions Precedent to Closing

5.1 Conditions Precedent to the Obligations of Buyer. Buyer's obligations to consummate the Contemplated Transaction are subject to the satisfaction in full, unless expressly waived in writing by Buyer, of each of the following conditions:

(a) Representations and Warranties. Each of the representations and warranties of Seller contained in Article 3 is true, correct and accurate from the Effective Date of this Agreement and as of the Closing Date shall be true, correct and accurate as though restated on and as of such date (except in the case of any representation and warranty that by its terms is made as of a date specified therein, which shall be accurate as of such date);

(b) Covenants. Seller shall have performed and complied with all covenants required by this Agreement to be performed or complied with by them prior to or at the Closing;

(c) Proceedings. No Order shall be in effect and no Proceeding by any Person shall be threatened or pending before any Governmental Authority, or before any arbitrator, wherein an unfavorable Order would: (i) prevent consummation of the Contemplated Transaction; (ii) have a

likelihood of causing the Contemplated Transaction to be rescinded following consummation; (iii) adversely affect the right of Buyer to own any of the Assets; or (iv) adversely affect the Business prospects, value or condition of any of the Assets or the Business;

(d) Approvals. Buyer shall have received prior to Closing; (i) an Order from the Public Service Commission (PSC) approving the requested change of control and allowing the use of Seller's water tariff rates for the provision of water service to Seller's customers and the encumbrance of the Real Property with the lien of its mortgage indenture; and ii) all other regulatory approvals required by any Governmental Authority to operate the Business within the Service Area.

(e) Closing Deliveries. Seller shall have delivered to Buyer the Closing requirements set forth in Section 2.6(a);

(f) Due Diligence. Buyer shall be satisfied, in its sole and absolute discretion, with the results of its due diligence review of the Business, the Assets and the Seller, including without limitation, satisfaction with the results of any environmental assessment performed with respect to the Assets.

(g) No Adverse Change. Buyer has determined that there has not been any adverse change in the Business, the Assets, financial condition or Business prospects of Seller and that there is no adverse change in the relationships maintained by Seller with its employees, suppliers, customers or Governmental Authorities as of Closing;

(h) Board Approval. Buyer shall have obtained approval of the Contemplated Transaction by Buyer's board of directors.

(i) Resolution of Meter Charges Litigation. Seller remains solely responsible for the payment of any judgement or settlement related to the current meter charges litigation (pending in the Rockcastle Circuit Court Division 2 as Civil Action No. 16-CI-00265) including attorneys' fees and shall provide proof of satisfaction of any such judgment or settlement in a form satisfactory to Buyer.

5.2 Conditions Precedent to Obligations of Seller. The Seller's obligation to consummate the Contemplated Transaction is subject to the satisfaction in full, unless expressly waived in writing by Seller, of each of the following conditions:

(a) Representations and Warranties. Each of the representations and warranties of Buyer contained in Article 4 is true, correct and accurate as of the date of this Agreement and, as of the Closing Date, shall be true, correct and accurate as though restated on and as of such date (except in the case of any representation and warranty that by its terms is made as of a date specified therein, which shall be accurate as of such date);

(b) Covenants. Buyer shall have performed and complied with all covenants required by this Agreement to be performed and complied with by Buyer prior to or at Closing;

(c) Buyer's Service Obligations. Seller shall be satisfied that, based on: (i) Buyer's tariff on file with the Kentucky Public Service Commission; (ii) Buyer's statutory obligations under Kentucky Revised Statutes Chapter 278; and (iii) Buyer's regulatory obligations under Chapter 5 of Title 807 of the Kentucky Administrative Regulations, Buyer's service obligations to Seller's water customers, including the continuity, reliability and extension of service, will be satisfactory; and

(d) Closing Deliveries. The Buyer shall have delivered to Seller the Closing requirements set forth in Section 2.6(b).

ARTICLE 6

Covenants and Special Agreements

6.1 Covenants of Seller Prior to Closing. Seller covenants and agrees that during the period from the Effective Date hereof until Closing:

(a) Non-Solicitation. Unless and until such time as this Agreement is terminated pursuant to Article 8, Seller shall not, and will cause each employee, officer, governing body, and agent not to, directly or indirectly: (i) submit, solicit, initiate, encourage or discuss any proposal or offer from any Person relating to any sale of all or any portion of the Assets or a sublease or assignment of any lease or any similar transaction involving Seller and the Business or the Assets; (ii) enter into any agreement or commitment related to any such transaction; or (iii) furnish any information with respect to or assist or participate in or facilitate in any other manner any effort or attempt by any Person to do or seek any of the foregoing. Seller shall notify Buyer immediately if any Person makes any proposal, offer, inquiry or contact with respect to any of the foregoing.

(b) Access. Upon reasonable prior notice by Buyer, Seller shall: (i) furnish Buyer and its financial and legal advisors with copies of all such Contracts, books and Records and other existing documents and data as Buyer may reasonably request; (ii) furnish Buyer and its financial and legal advisors with such additional financial, operating and other data and information as Buyer may reasonably request; (iii) permit Buyer or its representatives to conduct such physical inspections and environmental audits of the Real Property, as requested by Buyer; and (iv) permit Buyer or its representatives to conduct interviews of employees of Seller.

(c) Ordinary Course. Seller shall carry on the operation of the Business in the ordinary course of business, consistent with prior practice, not introduce any materially new method of management or operation, and use reasonable efforts to preserve the Business and conserve the goodwill and relationships of Seller's customers, suppliers, Governmental Authorities and others having business relations with it. Seller shall not engage in any activity or transaction which is inconsistent with the terms of this Agreement.

(d) Liens; Encumbrances. Seller shall not enter into or assume any mortgage, pledge, security agreement or other title retention agreement or permit any Encumbrance to attach to any of the Assets, whether now owned or hereafter acquired.

(e) All Reasonable Efforts. Seller will use commercially reasonable efforts to satisfy each of the conditions for Closing of the Buyer set forth in Section 5.1 above.

(f) Further Covenants.

(i) Reports. Seller shall duly and timely file all reports required to be filed with any Governmental Authority and will promptly pay when due all Taxes, assessments and governmental charges including interest and penalties levied or assessed, unless diligently contested in good faith by appropriate Proceedings;

(ii) Condition of Property. Consistent with past practice, Seller shall maintain and keep the Assets in substantially the same condition as of the date hereof, normal wear and tear excepted;

(iii) Insurance. Seller shall maintain in full force and effect all policies of insurance now in effect up and through the Effective Time on the Closing Date, but not thereafter;

(iv) No Breach or Default of Contracts. Seller shall not do any act or omit any act or permit any omission to act which will cause a breach or default by Seller of any Contract;

(v) Supplies. Seller shall keep supplies at a level sufficient to operate the Business in accordance with past practice;

(vi) Contracts. Seller shall not enter into any Contract other than in the ordinary course of business; and

(vii) Related Person Transactions. Seller shall not enter into any transaction with any Related Person.

6.2 Environmental Assessment. Buyer, in its sole discretion and at its sole expense, may conduct a Phase I environmental analysis of any or all of the Real Property, and the Seller shall cooperate and provide access for same. In the event that a Phase I study detects any actual or possible violation of any Environmental Law, the Buyer may, in its sole discretion, terminate this Agreement the effect of which is described in Section 8.2 herein.

6.3 Certain Post-Closing Covenants of Seller.

(a) Seller:

(i) shall pay in a timely manner all Taxes resulting from or payable in connection with the sale of the Assets pursuant to this Agreement, regardless of the Person on whom such Taxes are imposed.

(ii) shall pay, or make adequate provisions for the payment, in full, of all of the retained Liabilities and other Liabilities of Seller under this Agreement.

(iii) hereby agrees to cooperate with Buyer to ensure a proper transition of all customers with respect to billing and customer service activities.

(iv) hereby acknowledges that Buyer must comply with all provisions of its tariffs as filed with and approved by the PSC.

**ARTICLE 7
Indemnification**

7.1 Survival; Right to Indemnification Not Affected by Knowledge. All representations, warranties, covenants and obligations of Seller given in this Agreement and/or any Transaction Document delivered pursuant to this Agreement shall survive Closing. The right to indemnification, payment of Damages or other remedy based on such representations, warranties, covenants and obligations will not be affected by any investigation conducted with respect to or any Knowledge acquired (or capable of being acquired) at any time, whether before or after the execution and delivery of this Agreement or the Closing Date, with respect to the accuracy or inaccuracy of or compliance with, any such representation, warranty, covenant or obligation. The waiver of any condition based on the accuracy of any representation or warranty or on the performance of or compliance with any covenant or obligation will not affect the right to indemnification, payment of Damages or other remedy based on such representations, warranties, covenants and obligations.

7.2 Indemnification and Payment of Damages by Seller. Seller hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless Buyer and Buyer's past, present and future officers, directors, shareholders, employees, agents, attorneys, representatives, successors and assigns (collectively, the "Indemnified Persons"), from any and all manner of actions, suits, debts, sums of money, interest owed, accounts, controversies, agreements, charges, damages, judgments, executions, and reasonably incurred costs, expenses, fees (including reasonable attorneys' fees and court costs), counterclaims, claims, demands, causes of action, liabilities and losses and award all other Liabilities incurred, paid or sustained by any of the foregoing (hereinafter referred to in this Agreement as "Damages"), in each case, arising out of, or caused by: (i) the misrepresentation, breach of warranty or nonfulfillment of any provision of this Agreement by Seller or; (ii) all Liabilities and/or duties of Seller, whether accruing prior to or after the Effective Time on the Closing Date, and any Encumbrance affecting the Assets; (iii) assessments, charges and other similar claims due or owing, directly or indirectly, by Seller or otherwise as a result of or on account of the Assets or the Business at any time prior to the Effective Time on the Closing Date; (iv) the ownership and/or operation of any of the Assets or the Business prior to the Effective Time on the Closing Date; (v) any claim or Proceeding now existing or hereafter arising and relating to the Assets or the Business of Seller and arising from events or matters occurring prior to the Effective Time on the Closing Date; and (vi) any claim by an employee of Seller for any severance payment or arising out of such employee's employment with Seller or under the Worker Adjustment and Retraining Notification Act, COBRA (Sections 601 through

608 of the Employee Retirement Income Security Act of 1974), or under any employee benefit plan or employment Contract to which Seller is a party.

7.3 Indemnification and Payment of Damages by Seller - Environmental Matters. In addition to the provisions of Section 7.2, Seller hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless the Indemnified Persons, and will pay to the Indemnified Persons the amount of any Damages (including costs of cleanup, containment or other remediation) arising, directly or indirectly, from or in connection with:

(a) Any Environmental, Health and Safety Liabilities arising out of or relating to: (i) (A) the ownership, operation or condition at any time on or prior to the Effective Time on the Closing Date of the Assets or any other properties (whether real, personal or mixed and whether tangible or intangible) in which Seller has or had an interest; or (B) any Hazardous Materials or other contaminants that were present on or in the Assets or any other properties at any time on or prior to the Effective Time on the Closing Date; or (ii) (A) any Hazardous Materials or other contaminants, wherever located, that were, or were allegedly, generated, transported, stored, treated, Released or otherwise handled by Seller or by any other Person for whose conduct it is or may be held responsible at any time on or prior to the Effective Time on the Closing Date; or (B) any Hazardous Activities that were, or were allegedly, conducted by Seller or by any other Person for whose conduct it is or may be held responsible on or prior to the Effective Time on the Closing Date; or

(b) Any bodily injury (including illness, disability and death), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any Person, including any employee or former employee of Seller or any other Person for whose conduct it is or may be held responsible, in any way arising from or allegedly arising from any Hazardous Activity conducted or allegedly conducted with respect to the Assets or the Real Property by Seller prior to the Effective Time on the Closing Date, or from Hazardous Material that was: (i) present or suspected to be present on or before the Effective Time on the Closing Date on or at the Real Property (or present or suspected to be present on any other property, if such Hazardous Material emanated or allegedly emanated from any of the Real Property and was present or suspected to be present on any of the Real Property on or prior to the Effective Time on the Closing Date); or (ii) Released or allegedly Released by Seller or any other Person for whose conduct it is or may be held responsible, at any time on or prior to the Effective Time on the Closing Date.

Buyer shall control any Cleanup, any related Proceeding and, except as provided in the following sentence, any other Proceeding with respect to which indemnity may be sought under this Section 7.3. The procedure described in Section 7.5 will apply to any claim solely for monetary Damages relating to a matter covered by this Section 7.3.

7.4 Indemnification By Buyer. Buyer hereby unconditionally, irrevocably and absolutely agrees to fully pay, protect, defend, indemnify and hold harmless Seller and Seller's past, present and future officers, governing body, employees, agents, attorneys, representatives, successors and assigns from any and all Damages arising out of, or caused by: (i) Buyer's misrepresentation, breach of warranty or nonfulfillment of any provision of this Agreement; (ii) any claim or Proceeding arising after the Effective Time on the Closing Date and relating to events or matters occurring subsequent to the Effective Time on the Closing Date; and (iii) any claim by an employee of Buyer arising out of such employee's employment with Buyer after the Effective Time on the Closing Date.

7.5 Procedure for Indemnification. The procedure for indemnification shall be as follows:

(a) The party claiming indemnification (the "Claimant") shall promptly give notice to the party from whom indemnification is claimed (the "Indemnifying Party") of any claim, whether between the parties or brought by a third party, specifying: (i) the factual basis for such claim; and (ii) the amount of the claim. If the claim relates to a Proceeding filed by a third party against Claimant, Claimant shall give such notice within ten (10) Business Days after written notice of such Proceeding was given to Claimant. Claimant's failure to give the Indemnifying Party such notice shall not preclude Claimant from obtaining indemnification from the Indemnifying Party unless Claimant's failure has materially prejudiced

the Indemnifying Party's ability to defend the claim or litigation, and then the Indemnifying Party's obligation shall be reduced to the extent of such prejudice.

(b) Following receipt of notice from the Claimant of a claim, the Indemnifying Party shall have thirty (30) days to make such investigation of the claim as the Indemnifying Party deems necessary or desirable. For the purposes of such investigation, the Claimant agrees to make available to the Indemnifying Party and/or its authorized representatives the information relied upon by the Claimant to substantiate the claim. If the Claimant and the Indemnifying Party agree at or prior to the expiration of said thirty (30)-day period (or any mutually agreed upon extension thereof) to the validity and amount of such claim, the Indemnifying Party shall immediately pay to the Claimant the full amount of the claim. If the Claimant and the Indemnifying Party do not agree within said period (or any mutually agreed upon extension thereof), the Claimant may seek appropriate legal remedy.

(c) (i) With respect to any claim by a third party as to which the Claimant asserts it is entitled to indemnification hereunder, the Indemnifying Party shall have the right, at its own expense, to participate in or at its election to assume control of the defense of such claim, with counsel reasonably satisfactory to Claimant, subject to reimbursement of Claimant for actual out-of-pocket expenses incurred by Claimant as the result of request by the Indemnifying Party, subject to the following;

(A) The Claimant may retain separate co-counsel at its sole cost and expense and participate in the defense of any such claim by a third party; and

(B) The Indemnifying Party shall conduct the defense of the third party claim actively and diligently thereafter.

(ii) If the Indemnifying Party elects to assume control of the defense of any third party claim pursuant to Section 7.5(c)(i), the Indemnifying Party may nevertheless reserve the right to dispute the amount of indemnification claimed or dispute Claimant's right to be indemnified with respect to all or any portion of the claim. Except with the written Consent of the Claimant, the Indemnifying Party shall not, in defending any claim or any litigation resulting therefrom, consent to entry of any judgment or enter into any settlement which does not release the Claimant from all Liability in respect of such claim or litigation. In the event the Claimant fails to consent to any settlement or compromise which such failure results in Damages in excess of the amount for which Consent was requested, the limitation of the Indemnifying Party's obligations to indemnify the Claimant with respect to the subject matter of the claim shall be the amount of the proposed settlement or compromise rejected by Claimant and the Claimant shall be responsible for, and shall hold harmless the Indemnifying Party from, all Damages (including, without limitation, reasonable attorneys' fees incurred with respect to matters subsequent to the rejection of the settlement by Claimant) in excess of the amount of the proposed settlement or compromise rejected by Claimant.

(d) If a claim, whether between the parties or by a third party, requires immediate action, the parties will make every effort to reach a decision with respect thereto as expeditiously as possible.

7.6 Means of Indemnification and Right to Setoff. In addition to any other right or means Buyer may have to enforce the indemnities provided for in Sections 7.2 and 7.3 hereof, Buyer shall be entitled to set off any amount to which it may be entitled under this Agreement or Damages which Buyer may incur as a result of any breach of this Agreement or any covenant, guaranty or other provision contained within this Agreement against any payments of the Purchase Price and/or any indebtedness or obligation owed to Seller whether under this Agreement or any agreement or document related hereto. Buyer's right to setoff or its exercise thereof shall not prejudice the right of Buyer to pursue, in addition or as an alternative to such right, any other right or means Buyer may have to enforce the indemnification provided for in Sections 7.2 and 7.3 hereof and in no event shall the amount actually setoff limit Buyer's right to indemnification under Sections 7.2 and 7.3 hereof.

ARTICLE 8

Termination

8.1 Termination and Abandonment. This Agreement may be terminated and abandoned at any time prior to the Closing Date:

- (a) by mutual written Consent of Buyer and Seller; or
- (b) by Buyer, if the PSC does not approve the adoption or approval of water rates prior to the Closing Date or such other later date as agreed upon in writing.

8.2 Effect of Termination. The right of each party to terminate this Agreement under Section 8.1 is in addition to any other rights such party may have under this Agreement or otherwise, and the exercise of a right of termination will not be an election of remedies. If this Agreement is terminated pursuant to Section 8.1, all further obligations of the parties under this Agreement will terminate, except that the obligations set forth in Sections 9.9 ("Legal Fees; Costs") and 9.15 ("Publicity; Announcements"); and all other covenants and agreements which by their terms continue after the termination of this Agreement will survive; provided, however, that if this Agreement is terminated by a party because of the breach of the Agreement by another party or because one (1) or more of the conditions to the terminating party's obligations under this Agreement is not satisfied as a result of the other party's failure to comply with its obligations under this Agreement, the terminating party's right to pursue all legal remedies will survive such termination unimpaired.

ARTICLE 9

General Provisions

9.1 Amendment and Modification. No amendment, modification, supplement, termination, Consent or waiver of any section or provision of this Agreement, nor any Consent for departure therefrom, will in any event be effective unless the same is in writing and is signed by the parties. Any waiver of any provision of this Agreement and any Consent to any departure from the terms of any provision of this Agreement is to be effective only in the specific instance and for the specific purpose for which given.

9.2 Assignments. Seller may not assign or transfer any of its rights or obligations under this Agreement to any other Person without the prior written Consent of Buyer. Buyer may assign its rights and obligations under this Agreement to any Related Person or successor in interest without the Consent of Seller.

9.3 Captions. Captions contained in this Agreement and any table of contents preceding this Agreement have been inserted herein only as a matter of convenience and in no way define, limit, extend or describe the scope of this Agreement or the intent of any provision hereof.

9.4 Counterparts; Electronic Mail. This Agreement may be executed by the parties hereto on any number of separate counterparts, and all such counterparts so executed constitute one agreement binding on all the parties hereto notwithstanding that all the parties hereto are not signatories to the same counterpart. For purposes of this Agreement, a document (or signature page thereto) signed and transmitted in .pdf format by electronic mail is to be treated as an original document. The signature of any party thereon is to be considered as an original signature, and the document transmitted is to be considered to have the same binding effect as an original signature on an original document. At the request of any party hereto, the .pdf copy is to be re-executed in original form by the parties who executed the .pdf copy. No party hereto may raise the use of a .pdf copy or the fact that any signature was transmitted through the use of electronic mail as a defense to the enforcement of this Agreement or any amendment or other document executed in compliance with this section.

9.5 Entire Agreement. This Agreement and the other Transaction Documents constitute the entire agreement among the parties hereto pertaining to the subject matter hereof and supersede all prior agreements, letters of intent, understandings, negotiations and discussions of the parties hereto, whether oral or written.

9.6 Exhibits and Schedules. All of the Exhibits and Schedules attached to this Agreement are deemed incorporated herein by reference.

9.7 Failure or Delay. Except as otherwise provided by this Agreement, no failure on the part of any party hereto to exercise, and no delay in exercising, any right, power or privilege hereunder operates as a waiver thereof; nor does any single or partial exercise of any right, power or privilege hereunder preclude any other or further exercise thereof, or the exercise of any other right, power or privilege. No notice to or demand on any party hereto in any case entitles such party to any other or further notice or demand in similar or other circumstances.

9.8 Governing Law. This Agreement and the rights and obligations of the parties hereunder are to be governed by and construed and interpreted in accordance with the Laws of the State of Kentucky applicable to Contracts made and to be performed wholly within Kentucky, without regard to choice or conflict of Laws rules. In the event of any litigation or claim regarding this Agreement, the parties agree that the PSC has jurisdiction to govern all matters involving the Contemplated Transaction and the provision of water service by Buyer to the residents located within the Service Area.

9.9 Legal Fees, Costs. All legal, consulting and advisory fees and other costs and expenses incurred in connection with this Agreement and the Contemplated Transaction are to be paid by the party incurring such costs and expenses; provided, however, in the event litigation is instituted by either party to enforce or remedy a breach of any provision of this Agreement, in addition to any other relief therein awarded, the prevailing party shall be entitled to judgment for reasonable attorney's fees and litigation expenses. The term "prevailing party" shall include, but not be limited to, a party who obtains legal counsel or brings an action against the other by reason of the other's breach or default and obtains substantially the relief sought whether by compromise, mediation, settlement, judgment or otherwise.

9.10 Notices. All notices, Consents, requests, demands and other communications hereunder are to be in writing and are deemed to have been duly given, made or delivered: (i) when delivered in person, (ii) three (3) days after deposited in the United States mail, first class postage prepaid, (iii) in the case of telegraph or overnight courier services, one (1) Business Day after delivery to the telegraph company or overnight courier service with payment provided, or (iv) in the case of electronic mail, when sent, verification received, in each case addressed as follows:

if to Seller:

Attn: President
Eastern Rockcastle Water Association
P.O. Box 540
Mt. Vernon, Kentucky 40456

if to Buyer:

Attn: President
Kentucky-American Water Company
2300 Richmond Road
Lexington, Kentucky 40502

with a copy to (which shall not constitute notice):

Attn: Corporate Counsel
Kentucky-American Water Company
2300 Richmond Road
Lexington, Kentucky 40502

or to such other address as any party hereto may designate by notice to the other parties in accordance with the terms of this Section. For e-mail, a Party shall contact the other Party to receive the then-applicable e-mail for the person in the position stated above.

9.11 Severability. Any provision of this Agreement which is prohibited, unenforceable or not authorized in any jurisdiction is, as to such jurisdiction, ineffective to the extent of any such prohibition, unenforceability or nonauthorization without invalidating the remaining provisions hereof, or affecting the validity, enforceability or legality of such provision in any other jurisdiction, unless the ineffectiveness of such provision would result in such a material change as to cause completion of the Contemplated Transaction to be unreasonable.

9.12 Specific Performance and Injunctive Relief. The parties hereto recognize that if any or all of them fail to perform, observe or discharge any of their respective obligations under this Agreement, a remedy at Law may not provide adequate relief to the other parties hereto. Therefore, in addition to any other remedy provided for in this Agreement or under applicable Law, any party hereto may demand specific performance of this Agreement, and such party shall be entitled to temporary and permanent injunctive relief, in a court of competent jurisdiction at any time when any of the other parties hereto fail to comply with any of the provisions of this Agreement applicable to such party. To the extent permitted by applicable Law, all parties hereto hereby irrevocably waive any defense based on the adequacy of a remedy at Law which might be asserted as a bar to such party's remedy of specific performance or injunctive relief.

9.13 Successors and Assigns. Subject to Section 9.2, all provisions of this Agreement are binding upon, inure to the benefit of and are enforceable by or against the parties hereto and their respective heirs, executors, administrators or other legal representatives and permitted successors and assigns.

9.14 No Third-Party Beneficiary. This Agreement is solely for the benefit of the parties hereto and their respective successors and permitted assigns, and no other Person has any right, benefit, priority or interest under, or because of the existence of, this Agreement.

9.15 Publicity; Announcements. From the date hereof through and including Closing, no party hereto shall issue, cause or permit the publication by any of their respective Related Persons, agents or representatives, any press release or other public announcement with respect to this Agreement or the Contemplated Transaction except: (i) with the Consent of the other parties hereto (which shall not be unreasonably withheld); or (ii) as required by applicable Law (including, without limitation, any applicable securities Law). Seller will not, without the prior Consent of Buyer, make any announcements to employees of Seller with respect to the Contemplated Transaction and, at such time as an announcement to the employees is made, Buyer shall be allowed to participate in such announcement.

9.16 Cooperation. Any notices or certifications given under this Agreement or any related agreement shall be given in good faith without any intention to unfairly impede or delay the other party. Buyer and Seller shall cooperate fully with each other and their respective counsel and accountants in connection with any actions required to be taken as part of their respective obligations under this Agreement including, without limitation, actions required to be taken with respect to obtaining any applicable regulatory approval of the Contemplated Transaction. Buyer and Seller shall execute such other documents as may be necessary and desirable to the implementation and consummation of this Agreement. Each party agrees to use all reasonable efforts to consummate the Contemplated

Transaction including, without limitation, doing all things reasonably necessary to obtain the requisite regulatory approval.

9.17 Seller's Current Employees. Buyer shall give Seller's two current employees priority employment consideration subject to Buyer's standard hiring practices and procedures applicable to prospective employees. Those standard hiring practices and procedures include, but are not limited to, interviews, examinations, background checks and other screening tests routinely required of Buyer's prospective employees. Seller's employees meeting such requirements will be employed on an at-will basis.

9.18 Payment Location. Buyer agrees to maintain a local payment option in the vicinity of Seller's service area as long as, in Buyer's discretion, operationally necessary and economically practical.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

Buyer

Seller

KENTUCKY-AMERICAN WATER COMPANY, a
Kentucky public utility corporation

EASTERN ROCKCASTLE WATER
ASSOCIATION, a Kentucky water association

By: 

Nick Rowe, President

By: 

Name: Russell Barber

Title: Pres.

Schedule 1 Definitions

"Assets" as defined in Section 2.1.

"Agreement" as defined in the introductory paragraph.

"Assignment and Assumption Agreement" as defined in Section 2.7(a)(ii).

"Bill of Sale" as defined in Section 2.7(a)(i).

"Business" as defined in the Recitals.

"Business Days" means any day other than (i) Saturday or Sunday, or (ii) any other day on which governmental offices in the State of Indiana are permitted or required to be closed.

"Buyer" as defined in the introductory paragraph.

"Claimant" as defined in Section 7.5(a).

"Closing" as defined in Section 2.6.

"Closing Date" as defined in Section 2.6.

"Confidential Information" means (i) information not available to the general public concerning the Business and financial affairs with respect to a party hereto, and (ii) analyses, compilations, forecasts, studies and other documents prepared on the basis of such information by the parties or their agents, representatives, any Related Person, employees or consultants.

"Consent" means any approval, consent, ratification, waiver or other authorization.

"Contemplated Transaction" means all of the transactions contemplated by this Agreement and the Transaction Documents.

"Contract" means any agreement, contract, obligation, promise or undertaking (whether written or oral and whether express or implied), whether or not legally binding.

"Customer Premises" means a dwelling, building, structure or parcel of real estate which water service is provided.

"Customer Service Connection" means that portion of water pipe extending from the Customer Premises to the company owned collection system which Customer Service Connection shall be owned and maintained by the customer.

"Damages" as defined in Section 7.2.

"Effective Time" as defined in Section 2.6.

"Encumbrance" means any charge, claim, community property interest, condition, easement, equitable interest, lien, mortgage, option, pledge, security interest, right of first refusal, right of way, servitude or restriction of any kind, including any restriction on use, transfer, receipt of income or exercise of any other attribute of ownership, or any repayment obligation under any grant.

"Environment" means soil, land surface or subsurface strata, surface waters (including navigable waters, ocean waters, streams, ponds, drainage basins and wetlands), groundwater, drinking water supply, stream sediments, ambient air (including indoor air), plant and animal life and any other environmental medium or natural resource.

"Environmental, Health and Safety Liabilities" means any cost, Damages, expense, Liability, obligation or other responsibility arising from or under Environmental Law or Occupational Safety and Health Law and consisting of or relating to:

(a) Any environmental, health or safety matters or conditions (including on-site or off-site contamination, occupational safety and health and regulation of chemical substances or products);

(b) Fines, penalties, judgments, awards, settlements, legal or administrative proceedings, Damages, losses, claims, demands and response, investigative, remedial or inspection costs and expenses arising under Environmental Law or Occupational Safety and Health Law;

(c) Financial responsibility under Environmental Law or Occupational Safety and Health Law for cleanup costs or corrective action, including any investigation, cleanup, removal, containment or other remediation or response actions ("Cleanup") required by applicable Environmental Law or Occupational Safety and Health Law (whether or not such Cleanup has been required or requested by any Governmental Authority or any other Person) and for any natural resource Damages; or

(d) Any other compliance, corrective, investigative or remedial measures required under Environmental Law or Occupational Safety and Health Law.

The terms "removal," "remedial," and "response action," include the types of activities covered by the United States Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601 et seq., as amended ("CERCLA").

"Environmental Law" means any Law that requires or relates to:

(a) Advising appropriate authorities, employees and the public of intended or actual Releases of pollutants or hazardous substances or materials, violations of discharge limits or other prohibitions and of the commencements of activities, such as resource extraction or construction, that could have significant impact on the Environment;

(b) Preventing or reducing to acceptable levels the Release of pollutants or hazardous substances or materials into the Environment;

(c) Reducing the quantities, preventing the release or minimizing the hazardous characteristics of wastes that are generated;

(d) Assuring that products are designed, formulated, packaged and used so that they do not present unreasonable risks to human health or the Environment when used or disposed of;

(e) Protecting resources, species or ecological amenities;

(f) Reducing to acceptable levels the risks inherent in the transportation of hazardous substances, pollutants, oil or other potentially harmful substances;

(g) Cleaning up pollutants that have been Released, preventing the threat of Release or paying the costs of such clean up or prevention; or

(h) Making responsible parties pay private parties, or groups of them, for Damages done to their health or the Environment, or permitting self-appointed representatives of the public interest to recover for injuries done to public assets.

"Excluded Assets" as defined in Section 2.2.

"Governmental Authority(ies)" means any:

(a) Nation, state, county, city, town, village, district or other jurisdiction of any nature;

- (b) Federal, state, local, municipal, foreign or other government;
- (c) Governmental or quasi-governmental authority of any nature (including any governmental agency, branch, department, official or entity and any court or other tribunal);
- (d) Multi-national organization or body; or
- (e) Body exercising, or entitled to exercise, any administrative, executive, judicial, legislative, police, regulatory or taxing authority or power of any nature.

"Hazardous Activity" means the distribution, generation, handling, importing, management, manufacturing, processing, production, refinement, Release, storage, transfer, transportation, treatment or use (including any withdrawal or other use of groundwater) of Hazardous Materials in, on, under, about or from the property or any part thereof into the Environment, and any other act, business, operation or thing that increases the danger or risk of danger, or poses an unreasonable risk of harm to persons or property on or off the property, or that may affect the value of the property or Seller.

"Hazardous Materials" means any waste or other substance that is listed, defined, designated or classified as, or otherwise determined to be, hazardous, radioactive or toxic or a pollutant or a contaminant under or pursuant to any Environmental Law, including any admixture or solution thereof, and specifically including petroleum and all derivatives thereof or synthetic substitutes therefor and asbestos or asbestos-containing materials.

"Indemnifying Party" as defined in Section 7.5(a).

"Knowledge" means an individual will be deemed to have "Knowledge" of a particular fact or other matter if:

- (a) Such individual is actually aware of such fact or other matter; or
- (b) A prudent individual could be expected to discover or otherwise become aware of such fact or other matter in the course of conducting a reasonable investigation concerning the existence of such fact or other matter.

A Person (other than an individual) will be deemed to have "Knowledge" of a particular fact or other matter if any individual who is serving as a director or officer of such Person (or in any similar executive capacity) has, or at any time had, Knowledge of such fact or other matter.

"Law" means any law, rule, regulation or ordinance of any federal, foreign, state or local Governmental Authority.

"Liability" with respect to any Person any liability or obligation of such Person for any kind, character or description, whether known or unknown, absolute or contingent, accrued or unaccrued, disputed or undisputed, liquidated or unliquidated, secured or unsecured, joint or several, due or to become due, vested or unvested, executory, determined, determinable or otherwise and whether or not the same is required to be accrued on the financial statements of such Person.

"Occupational Safety and Health Law" means any Law designed to provide safe and healthful working conditions and to reduce occupational safety and health hazards, and any program, whether governmental or private (including those promulgated or sponsored by industry associations and insurance companies), designed to provide safe and healthful working conditions.

"Order" means any award, decision, injunction, judgment, order, ruling, subpoena or verdict entered, issued, made or rendered by any court, administrative agency or other Governmental Authority or by any arbitrator.

"Organizational Documents" means the articles or certificate of incorporation and the bylaws of a corporation and any amendment thereto.

“Permit” means any approval, Consent, license, permit, waiver or other authorization issued, granted, given or otherwise made available by or under the authority of any Governmental Authority or pursuant to any Law.

“Person” means any individual, corporation (including any non-profit corporation), general or limited partnership, limited liability company, joint venture, estate, trust, association, organization, labor union or other entity or Governmental Authority.

“Proceeding” means any action, arbitration, audit, hearing, investigation, litigation or suit (whether civil, criminal, administrative, investigative or informal) commenced, brought, conducted or heard by or before, or otherwise involving, any Governmental Authority or arbitrator.

“Purchase Price” as defined in Section 2.3.

“Real Property” as defined in Section 3.4.

“Records” means information that is inscribed on a tangible medium or that is stored in an electronic or other medium and is retrievable in perceivable form.

“Related Person” with respect to a particular individual, means:

- (a) Each other member of such individual’s Family (as hereinafter defined);
- (b) Any Person that is directly or indirectly controlled by such individual or one or more members of such individual’s Family;
- (c) Any Person in which such individual or members of such individual’s Family hold (individually or in the aggregate) a Material Interest; and
- (d) Any Person with respect to which such individual or one or more members of such individual’s Family serves as a director, officer, partner, executor or trustee (or in a similar capacity).

With respect to a specified Person other than an individual:

- (e) Any Person that directly or indirectly controls, is directly or indirectly controlled by, or is directly or indirectly under common control with such specified Person;
- (f) Any Person that holds a Material Interest in such specified Person;
- (g) Each Person that serves as a director, officer, partner, executor or trustee of such specified Person (or in a similar capacity);
- (h) Any Person in which such specified Person holds a Material Interest;
- (i) Any Person with respect to which such specified Person serves as a general partner or a trustee (or in a similar capacity); and
- (j) Any Related Person of any individual described in clause (b) or (c).

For purposes of this definition, (i) the “Family” of an individual includes (A) the individual, (B) the individual’s spouse, (C) any other natural person who is related to the individual or the individual’s spouse within the second degree, and (D) any other natural person who resides with such individual; and (ii) “Material Interest” means direct or indirect beneficial ownership (as defined in Rule 13d-3 under the Securities Exchange Act of 1934) of voting securities or other voting interests representing at least five percent (5%) of the outstanding equity securities or equity interests in a Person.

“Release” means any spilling, leaking, emitting, discharging, depositing, escaping, leaching, dumping or other releasing into the Environment, whether intentional or unintentional.

"Seller" shall have the meaning given that term in the introductory paragraph.

"Service Area" as defined in the Recitals.

"Service Line" means that portion of water pipe extending from the water main to and including the curb stop and curb box located at or near the property line of a Customer Premises.

"Tangible Personal Property" means all wells, treatment plants, pumps, water transmission and distribution mains, valves and appurtenances, storage tanks, Service Lines, meters, meter installations, hydrants, machinery, equipment, tools, furniture, office equipment, computer hardware, supplies (including chemicals and spare parts), materials, vehicles and other items of tangible personal property of every kind owned or leased by Seller (wherever located and whether or not carried on Seller's books), which are, could be, or in the future would be part of the production, transmission and distribution system utilized to provide water service to Seller's water customers, together with any express or implied warranty by the manufacturers or sellers or lessors of any item or component part thereof, and all maintenance Records and other documents relating thereto.

"Tax" means all taxes, charges, withholdings, fees, levies, penalties, additions, interest or other assessments, including, without limitation, income, gross receipts, excise, property, sales, employment, withholding, social security, occupation, use, service, service use, license, payroll, franchise, transfer and recording taxes, fees and charges, windfall profits, severance, customs, import, export, employment or similar taxes, charges, fees, levies or other assessments, imposed by any Governmental Authority, whether computed on a separate, consolidated, unitary, combined or any other basis.

"Transaction Documents" means this Agreement, the Bill of Sale, and all other documents, certificates, assignments and agreements executed and/or delivered in connection with this Agreement in Order to consummate the Contemplated Transaction, as the same may be amended, restated, modified or otherwise replaced by mutual agreement from time to time.

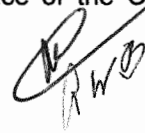
Rules of Construction

For purposes of this Agreement and the other documents executed in connection herewith, the following rules of construction shall apply, unless specifically indicated to the contrary: (i) wherever from the context it appears appropriate, each term stated in either the singular or plural shall include the singular and the plural, and pronouns stated in the masculine, feminine or neuter gender shall include the masculine, the feminine and the neuter; (ii) the term "or" is not exclusive; (iii) the term "including" (or any form thereof) shall not be limiting or exclusive; (iv) all references to statutes and related regulations shall include any amendments of same and any successor statutes and regulations; (v) all references in this Agreement or in the Schedules to this Agreement to sections, schedules, exhibits and attachments shall refer to the corresponding sections, schedules, exhibits and attachments of or to this Agreement; and (vi) all references to any instruments or agreements, including references to any of the documents executed in connection herewith, shall include any and all modifications or amendments thereto and any and all extensions or renewals thereof.

**Schedule 2.2
Excluded Assets**

In addition to the Excluded Assets listed in Section 2.2, the following parcel of land is an Excluded Asset:

0.060 acre tract of land conveyed to Eastern Rockcastle Water Association, a/k/a Eastern Rockcastle Water Association, Inc. by deed recorded in Book 217 Pages 478-482 in the Office of the Clerk of Rockcastle County, Kentucky.



**Schedule 3.4
Real Property and Easements**

Real Property

The land parcels below (described by seller, location, and date of acquisition) are included in the acquisition:

1. Cromer property (Sand Hill), September 16, 1989
2. Arnold property (Sand Hill), March 12, 1998
3. Stanley property (Sand Hill), October 6, 2008
4. Bullock property (Sand Springs), July 23, 2007

Mains	
Up to 2"	11,886
3"	94,543
4"	165,680
6"	20,424
Total	292,533

Valves	70
Hydrants	5
Service Lines	625
Meter settings	625

Pump stations 3 (2 pumps each)

Tanks		
Three Links		80,400 gallons
Sand Springs		15,000 gallons
Sand Springs Hydro Pneumatic Tank		80 gallons
Sand Hill Hydro Pneumatic Tank		600 gallons

Easements

Rockcastle County Rights of Way

For the list of all other fee tracts and easement tracts, see attached Exhibit A and Exhibit B from the Deed between ERWA and KAW.

EXHIBIT "A"**FEE TRACTS****Parcel 1**

0.015 acres of the Eastern Rockcastle Water Association Plat filed of record in Plat Book 4, Page 647, Slide 875, in the Rockcastle County Clerk's office at Mt. Vernon, Kentucky.

Further, there is conveyed a temporary construction easement as set out on the aforementioned plat.

Being the same property conveyed to Eastern Rockcastle Water Association, by deed dated October 6, 2008, of record in Deed Book 223, Page 675, in the office of the Rockcastle County Clerk.

Parcel 2

A certain tract or lot of land southwest of and adjoining KY HWY. 1249 (Sand Springs Road) and southeast of and adjoining Bloss Road in Rockcastle County, Kentucky; more particularly bounded and described as follows (based upon a January 2007 Minor Subdivision Survey performed by Joshua D. Bills, PLS, #3537)

All bearings stated based upon January 22, 2007 observation of magnetic north.

Being all of the property (Lot 1---0.368 acres) as shown on a plat entitled, "MINOR SUBDIVISION EAST ROCKCASTLE WATER ASSOCIATION," said plat being recorded in Plat Book 4, Page 575, Slide 803, in the Office of the Rockcastle County Clerk.

Being the same property conveyed to Eastern Rockcastle Water Association, by deed dated July 24, 2007, of record in Deed Book 217, Page 55, in the office of the Rockcastle County Clerk.

Parcel 3

Beginning at a ½" conduit with a plastic cap stamped RLS #2773 in the West right-of-way of Nicely Road and being a corner to Perry Lee Arnold, said point being S 55 38'21" W, 84.93 feet FROM a P. K. nail in the Center of intersection of the Sand Hill Road and Nicely Road, said point also being S 59 13'11" W, 29.90 feet FROM the Northwest corner of a concrete bridge and also S 66 13'44" W, 19.11 feet FROM the Southwest corner of bridge; thence going with said right-of-way S 04 00'00" W, 30.00 feet to a ½" conduit with a plastic cap stamped RLS #2773 in said right-of-way and a corner to Perry Lee Arnold; thence leaving said right-of-way and going with the line of Arnold the following calls; N 58 00'00" W, 30.00 feet to a ½" conduit with a plastic cap stamped RLS #2773; N 04 00'00" E, 30.00 feet to a ½" conduit with a plastic cap stamped RLS #2773; S 58 00'00" E, 30.00 feet to the point of beginning and containing 0.018 acres.

Being the same property conveyed to The Rockcastle Water Association, Inc. by deed recorded March 20, 1998, in Deed Book 169, Page 378 in the office of the Rockcastle County Clerk.

Parcel 4

Beginning at a ½" conduit with a plastic cap stamped RLS #2773 in the East right-of-way of The Sand Hill Road and being a corner Mark Poynter, said point being N 68 35'00" E,

239.89 feet FROM corner No. 4 of U.S.F.S. Tract No. 1988; thence going with the line of Poynter N 68 35'00" E, 47.11 feet to a ½" conduit with a plastic cap stamped RLS #2773 in the line of Poynter and a corner to Jack E. Hammond "Heirs"; thence going with the line of Hammond S 11 45'00" E, 30.00 feet to a ½" conduit with a plastic cap stamped RLS #2773 in the line of Hammond and a corner to Suann Cromer; thence going with the Corner line S 68 27'40" W, 41.93 feet to a ½" conduit with a plastic cap stamped RLS #2773 in the East right-of-way of The Sand Hill Road and a corner to Cromer; thence going with said right-of-way N 21 41'32" W, 29.66 feet to the point of beginning and containing 0.030 acres.

Being the same property conveyed to The Rockcastle Water Association, Inc. by deed dated February 13, 1998, of record in Deed Book 169, Page 384 in the office of the Rockcastle County Clerk.

EXHIBIT "B"**EASEMENT TRACTS**

- Right-of-Way Easement dated May 11, 2004 and recorded in Deed Book 211 Page 548 in the Rockcastle County Clerk's Office, between Floyd Bullock, a/k/a Floyd M. Bullock (Grantor) and Eastern Rockcastle Water Association, Inc., a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 179 Page 445 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 20, 2002 and recorded in Deed Book 211 Page 557 in the Rockcastle County Clerk's Office, between Martha Allen, a widow, by Berkley Allen (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 52 Page 604 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 20, 2002 and recorded in Deed Book 211 Page 558 in the Rockcastle County Clerk's Office, between Berkley Allen and Sheila Allen (Grantors) and Eastern Rockcastle Water Association, Inc., a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 116 Pages 627-628 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 7, 2005 and recorded in Deed Book 211 Page 559 in the Rockcastle County Clerk's Office, between Gillis Allen, a/k/a Gilles Allen (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc.(Grantee) on a tract of land described in Deed Book 136 Page 82 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 13, 2012 and recorded in Deed Book 242 Page 25 in the Rockcastle County Clerk's Office, between Kenneth Ballinger (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 240 Page 503 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 7, 2005 and recorded in Deed Book 211 Page 552 in the Rockcastle County Clerk's Office, between Cecil R. Bowles and Elaine Bowles (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 197 Page 250 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 11, 2004 and recorded in Deed Book 211 Page 548 in the Rockcastle County Clerk's Office, between Floyd M. Bullock, a/k/a Floyd Bullock (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 179 Page 445 in the Rockcastle County Clerk's Office.
- Deed of Easement dated March 23, 2009 and recorded in Deed Book 225 Pages 493-495 in the Rockcastle County Clerk's Office, between Century Property Development L.L.C. (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 213 Page 74 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement recorded in Deed Book 227 Page 638 in the Rockcastle County Clerk's Office, between Ovie Cromer and Retha Cromer (Grantors) and Eastern Rockcastle Water Association, Inc., a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 177 Page 254 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 20, 2002 and recorded in Deed Book 211 Page 554 in the Rockcastle County Clerk's Office, between James Gibbons and Pauline Gibbons (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 138 Pages 493-495 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 21, 2004 and recorded in Deed Book 211 Page 555 in the Rockcastle County Clerk's Office, between Johnny Rader and Melinda Rader (Grantors) and Eastern Rockcastle Water Association, Inc, a/k/a ERWA Water Association, Inc., a/k/a Eastern Rockcastle Water (Grantee) on a tract of land described in Deed Book 152 Page 251 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 23, 1999 and recorded in Deed Book 175 Page 582 in the Rockcastle County Clerk's Office, between Larry B. Hammond and Rebekah S. Hammond (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 151 Page 447 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 16, 2004 and recorded in Deed Book 211 Page 547 in the Rockcastle County Clerk's Office, between Clinton Hensley and JoAnne Hensley a/k/a JoAnn Hensley (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 201 Page 584 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 20, 2004 and recorded in Deed Book 211 Page 551 in the Rockcastle County Clerk's Office, between Roscoe Himes and Mildred Himes (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water, a/k/a Water Association, Inc. (Grantee) on a tract of land described in Deed Book 200 Page 273 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 2, 2005 and recorded in Deed Book 211 Page 553 in the Rockcastle County Clerk's Office, between James T. Poff, Jr., a/k/a James T. Poff (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water (Grantee) on a tract of land described in Deed Book 146 Page 563 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 20, 2004 and recorded in Deed Book 211 Page 546 in the Rockcastle County Clerk's Office, between Herman Powell (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a ERWA Water Association, Inc. (Grantee) on a tract of land described in Deed Book 204 Page 80 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 22, 2004 and recorded in Deed Book 211 Page 549 in the Rockcastle County Clerk's Office, between F.L. Ruppe and Anna M. Ruppe (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a E.R.W.A. Water Association, Inc. (Grantee) on a tract of land described in Deed Book 147 Page 10 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 22, 2004 and recorded in Deed Book 211 Page 550 in the Rockcastle County Clerk's Office, between Claude Sanders and Linda Sanders (Grantors) and

Eastern Rockcastle Water Association, Inc. a/k/a ERWA Water Association, Inc. (Grantee) on a tract of land described in Deed Book 163 Page 191 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 14, 1996 and recorded in Deed Book 169 Page 268 in the Rockcastle County Clerk's Office, between William H. Smith, Laura Bell Smith and Cromer Smith (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a E.R.W.A. Rockcastle Water (Grantee) on a tract of land described in Deed Book 162 Pages 557-559 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 19, 2011 and recorded in Deed Book 241 Page 546 in the Rockcastle County Clerk's Office, between Talbert J. VanWinkle, a/k/a T.J. VanWinkle and Elaine Marie VanWinkle (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 237 Page 623 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 20, 2011 and recorded in Deed Book 241 Page 545 in the Rockcastle County Clerk's Office, between Geneva VanWinkle (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 157 Page 275 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 25, 2004 and recorded in Deed Book 211 Page 556 in the Rockcastle County Clerk's Office, between Paul Waddles and Pauline Waddles (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a ERWA Water Association, Inc. (Grantee) on a tract of land described in Deed Book 164 Page 59 in the Rockcastle County Clerk's Office.
- Deed of Easement dated September 24, 2008 and recorded in Deed Book 224 Page 432 in the Rockcastle County Clerk's Office, between Everett Wagoner and Sharon Wagoner (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 160 Pages 287-295 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 348 in the Rockcastle County Clerk's Office, between Cecil L. Northern, a/k/a Cecil Louie Northern and Carolyn Northern, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 133 Page 414 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 321 in the Rockcastle County Clerk's Office, between William B. Jones and Ramona Jones, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 121 Page 320 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 327 in the Rockcastle County Clerk's Office, between Michael Bowman and Wilhelmina Bowman, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 115 Page 10 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 333 in the Rockcastle County Clerk's Office, between James Hazelwood and Joyce Hazelwood, a/k/a Joyce A. Hazelwood, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a

Rockcastle County Water Association, Inc.. (Grantee) on a tract of land described in Deed Book 145 Page 202 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 335 in the Rockcastle County Clerk's Office, between James Hazelwood and Joyce Hazelwood, a/k/a Joyce A. Hazelwood, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 145 Page 202 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 341 in the Rockcastle County Clerk's Office, between Lonnie McGuire, a/k/a Lonnie R. McGuire and Pam McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 135 Page 342 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 342 in the Rockcastle County Clerk's Office, between Michael P. McGuire and Melinda McGuire, a/k/a Melinda K. McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 146 Page 341 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 336 in the Rockcastle County Clerk's Office, between Wainwright Hensley and Linda Hensley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 116 Page 616 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 3, 1993 and recorded in Deed Book 152 Page 322 in the Rockcastle County Clerk's Office, between Noah Pigg, Jr., a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 146 Page 382 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 334 in the Rockcastle County Clerk's Office, between James Hazelwood and Joyce Hazelwood, a/k/a Joyce A. Hazelwood, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 145 Page 202 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 330 in the Rockcastle County Clerk's Office, between Brenda Cope, a/k/a Brenda Sue Cope, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 148 Page 621 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 331 in the Rockcastle County Clerk's Office, between Robert Cox, a/k/a Robert B. Cox, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 135 Page 127 and Book 141 Page 615 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 153 Page 641 in the Rockcastle County Clerk's Office, between Travis Sparks, a/k/a Travis E. Sparks, a single

person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 47 Page 536 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 353 in the Rockcastle County Clerk's Office, between James Rice and Kimberly Rice, a/k/a Kimberley Rice, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 116 Page 423 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 21, 1993 and recorded in Deed Book 152 Page 346 in the Rockcastle County Clerk's Office, between Sam Mullins, a/k/a Samuel J. Mullins and Evelyn Mullins, a/k/a Ruth Evelyn Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 128 Page 443 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 21 1993 and recorded in Deed Book 152 Page 347 in the Rockcastle County Clerk's Office, between James Mallicoat and Annetta Mallicoat, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 145 Page 191 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 7, 1993 and recorded in Deed Book 152 Page 332 in the Rockcastle County Clerk's Office, between Charles Durham and Flossie Durham, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 125 Page 124 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 13, 1993 and recorded in Deed Book 152 Page 349 in the Rockcastle County Clerk's Office, between Cecil Northern and Becky Northern, a/k/a Beckie B. Northern, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 133 Page 411 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 350 in the Rockcastle County Clerk's Office, between Aaron F. Pheanis and Helen Pheanis, a/k/a Helen B. Pheanis, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 107 Page 775 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 8, 1993 and recorded in Deed Book 152 Page 351 in the Rockcastle County Clerk's Office, between Mitchell Prater and Eunice Prater, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 106 Page 158 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 354 in the Rockcastle County Clerk's Office, between Arthur Robinson and Sylvania Robinson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 102 Page 170 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated May 8, 1993 and recorded in Deed Book 152 Page 323 in the Rockcastle County Clerk's Office, between Mitchell Abrams and Lucy Abrams, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 87 Page 232 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 8, 1993 and recorded in Deed Book 152 Page 355 in the Rockcastle County Clerk's Office, between Johnny Robinson and Jean Robinson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 102 Page 179 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 21, 1993 and recorded in Deed Book 152 Page 345 in the Rockcastle County Clerk's Office, between Jim Mullins and Thelma Mullins, his wife, and James Mullins and Rhonda Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 136 Page 257 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 352 in the Rockcastle County Clerk's Office, between James Rice and Kimberly Rice, a/k/a Kimberley Rice, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 116 Page 423 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 10, 1993 and recorded in Deed Book 152 Page 320 in the Rockcastle County Clerk's Office, between Robert E. Literal and Cassie Literal, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 140 Page 226 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 21, 1993 and recorded in Deed Book 152 Page 319 in the Rockcastle County Clerk's Office, between Joe Martin and Mary R. Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 82 Page 284 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 356 in the Rockcastle County Clerk's Office, between Myrtle J. Rice, a/k/a Myrtle Rice, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 135 Page 587 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 325 in the Rockcastle County Clerk's Office, between William D. Baker and Judy J. Baker, a/k/a Judy Baker, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 141 Page 698 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 359 in the Rockcastle County Clerk's Office, between Danny Sell, a/k/a Danny Sells, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water

Association, Inc. (Grantee) on a tract of land described in Deed Book 129 Page 65 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 326 in the Rockcastle County Clerk's Office, between Michael Bowman and Wilhelmina Bowman, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 115 Page 10 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 152 Page 358 in the Rockcastle County Clerk's Office, between Clinton Ray Stewart and Regina Stewart, a/k/a Regina L. Stewart, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 108 Page 360 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 361 in the Rockcastle County Clerk's Office, between Alan Van Winkle and Mary Van Winkle, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 118 Page 430 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 21, 1993 and recorded in Deed Book 152 Page 343 in the Rockcastle County Clerk's Office, between Jim Mullins, a/k/a J.W. Mullins and Thelma Mullins, a/ka Thelma C. Mullins, his wife, and James N. Mullins and Rhonda Mullins, a/k/a Ronda Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 126 Page 257 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 10, 1993 and recorded in Deed Book 152 Page 360 in the Rockcastle County Clerk's Office, between Jerry Thomas, a/k/a Jerry D. Thomas and Linda Thomas his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 136 Page 422 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 337 in the Rockcastle County Clerk's Office, between Owen Hensley and Lillie Hensley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 136 Page 531 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1993 and recorded in Deed Book 152 Page 362 in the Rockcastle County Clerk's Office, between William I. Van Winkle and Ruth Van Winkle, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 129 Page 178 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 324 in the Rockcastle County Clerk's Office, between J. B. Alexander, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 144 Page 194 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 328 in the Rockcastle County Clerk's Office, between Magdalene Bowman, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 50 Page 351 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 26, 1993 and recorded in Deed Book 152 Page 357 in the Rockcastle County Clerk's Office, between James E. Russell and Sharon L. Russell, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 131 Page 677 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 20, 1993 and recorded in Deed Book 152 Page 329 in the Rockcastle County Clerk's Office, between Pearl Cox, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 127 Page 508 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 4, 1993 and recorded in Deed Book 152 Page 338 in the Rockcastle County Clerk's Office, between Owen Hensley and Lillie Hensley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 118 Page 715 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 9, 1993 and recorded in Deed Book 152 Page 339 in the Rockcastle County Clerk's Office, between Emory Johnson and Carolyn Johnson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 96 Page 62 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 11, 1993 and recorded in Deed Book 152 Page 340 in the Rockcastle County Clerk's Office, between Elice Johnson, a single person, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 124 Page 231 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 21, 1993 and recorded in Deed Book 152 Page 344 in the Rockcastle County Clerk's Office, between Sam Mullins, a/k/a Samuel J. Mullins and Evelyn Mullins, a/k/a Ruth Evelyn Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 128 Page 443 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 8, 1993 and recorded in Deed Book 153 Page 643 in the Rockcastle County Clerk's Office, between Erman K. Hays and Carolyn Hays, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 80 Page 82 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 23, 1993 and recorded in Deed Book 153 Page 644 in the Rockcastle County Clerk's Office, between Douglas Shearer and Vicky Shearer, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 120 Page 194 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated May 8, 1993 and recorded in Deed Book 153 Page 642 in the Rockcastle County Clerk's Office, between Erman K. Hays and Carolyn Hays, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 33 Page 380 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 23, 1996 and recorded in Deed Book 165 Page 133 in the Rockcastle County Clerk's Office, between John P. Short, a/k/a John Short and Jananee Short, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 146 Pages 498-500 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 6, 1996 and recorded in Deed Book 165 Page 134 in the Rockcastle County Clerk's Office, between Ronald Mink and Flossie Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 143 Pages 381-383 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 165 Page 137 in the Rockcastle County Clerk's Office, between Delmer Mink and Muriel Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 93 Page 171 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 7, 1996 and recorded in Deed Book 165 Page 138 in the Rockcastle County Clerk's Office, between Earl Denver Mize, a/k/a Earl Donner Mize, divorced (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 151 Pages 124-127 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 142 in the Rockcastle County Clerk's Office, between Teddy Lew Mink, a/k/a Teddy Mink and Sharon Mink, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 161 Pages 90-91 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 148 in the Rockcastle County Clerk's Office, between James O. Martin and Brenda Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 123 Pages 464-465 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 26, 1996 and recorded in Deed Book 165 Page 150 in the Rockcastle County Clerk's Office, between Trevor Hensley and Melissa Hensley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 141 Pages 21-23 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 155 in the Rockcastle County Clerk's Office, between Clarence E. Carpenter and Judith L. Carpenter, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 133 Pages 362-364 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 7, 1996 and recorded in Deed Book 165 Page 162 in the Rockcastle County Clerk's Office, between Danny Sell, divorced, and Danny Sell, Jr., a single person, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 151 Pages 639-641 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 166 in the Rockcastle County Clerk's Office, between William McClure and Rena McClure, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 79 Page 204 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 167 in the Rockcastle County Clerk's Office, between Shelia Ann Bullock, a/k/a Sheila Bullock and James Bullock, her husband, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 79 Pages 63-66 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 168 in the Rockcastle County Clerk's Office, between Jimmie Clark, a/k/a Jimmie C. Clark and Eva Clark, a/k/a Eva J. Clark, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 142 Pages 87-90 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 169 in the Rockcastle County Clerk's Office, between Willene McClure, widow, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 130 Pages 8-9 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 23, 1993 and recorded in Deed Book 154 Page 6 in the Rockcastle County Clerk's Office), between Rosetta South Enterprises, Inc. and signed by Liza A. Mullins and Rosamond M. Brown, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 131 Page 699 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 23, 1993 and recorded in Deed Book 154 Page 7 in the Rockcastle County Clerk's Office), between Rosetta South Enterprises, Inc. and signed by Liza A. Mullins and Rosamond M. Brown, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 125 Page 299 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 20, 1996 and recorded in Deed Book 165 Page 130 in the Rockcastle County Clerk's Office, between Bentley Cromer, a/k/a Bentley N. Cromer and Leila D. Cromer, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 116 Pages 121-122 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 21, 1996 and recorded in Deed Book 165 Page 131 in the Rockcastle County Clerk's Office, between Timothy W. Renner, a single person, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 147 Pages 319-321 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 7, 1996 and recorded in Deed Book 165 Page 135 in the Rockcastle County Clerk's Office, between Owen E. Mink and Bonnie Kay Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 117 Pages 88-90 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 6, 1996 and recorded in Deed Book 165 Page 132 in the Rockcastle County Clerk's Office, between Bernard Norton and Ruby Norton, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn., Inc. (Grantee) on a tract of land described in Deed Book 89 Page 551 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 13, 1996 and recorded in Deed Book 165 Page 136 in the Rockcastle County Clerk's Office, between Leo Mink and Eula Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 136 Page 357 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 19, 1996 and recorded in Deed Book 165 Page 139 in the Rockcastle County Clerk's Office, between Zi Graves, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 55 Page 16 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 140 in the Rockcastle County Clerk's Office, between Duke Gibson and Linda Gibson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 159 Pages 441-442 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 141 in the Rockcastle County Clerk's Office, between Sand Hill Baptist Church, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 44 Page 323 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 143 in the Rockcastle County Clerk's Office, between Michael Mason and Mary Mason, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 156 Pages 283-284 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 144 in the Rockcastle County Clerk's Office, between Ricky Taylor and Patricia Taylor, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 156 Pages 268-270 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 145 in the Rockcastle County Clerk's Office, between W.L. Fain and Barbara Fain, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 42 Pages 79-82 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 10, 1996 and recorded in Deed Book 165 Page 146 in the Rockcastle County Clerk's Office, between Billy Wayne Bryant, a/k/a Billy W. Bryant and Aletha Bryant, a/k/a Aletha M. Bryant, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 123 Page 574 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 8, 1996 and recorded in Deed Book 165 Page 147 in the Rockcastle County Clerk's Office, between William Callahan and Brenda Callahan, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 110 Page 412 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 12, 1996 and recorded in Deed Book 165 Page 149 in the Rockcastle County Clerk's Office, between Vivian Singleton, widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 64 Page 10 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 26, 1996 and recorded in Deed Book 165 Page 151 in the Rockcastle County Clerk's Office, between Ruby Wolf, widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 34 Page 164 and Deed Book 42 Page 246 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 26, 1996 and recorded in Deed Book 165 Page 152 in the Rockcastle County Clerk's Office, between William Abney and Marjorie Abney, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 111 Pages 590-591 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 24, 1996 and recorded in Deed Book 165 Page 153 in the Rockcastle County Clerk's Office, between Benny Phillips and Beverly Phillips, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 138 Page 545 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 8, 1996 recorded in Deed Book 165 Page 154 in the Rockcastle County Clerk's Office, between Ernie Smith and Alice Smith, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 116 Page 398 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 156 in the Rockcastle County Clerk's Office, between William H. Morris, a/k/a William Henry Morris and Brenda Morris, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 121 Pages 501-502 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 165 Page 157 in the Rockcastle County Clerk's Office, between Jesse Baker and Hazel Baker, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 104 Pages 217-218 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 158 in the Rockcastle County Clerk's Office, between Robert Allen and Alma Allen, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 54 Page 15 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 159 in the Rockcastle County Clerk's Office, between Steven J. Bolton, a/k/ Steven Bolton and Janet M.

Bolton, a/k/a Janet Bolton, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 160 Pages 197-200 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 15, 1996 and recorded in Deed Book 165 Page 160 in the Rockcastle County Clerk's Office, between Keith Cromer, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 162 Pages 600-606 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 13, 1996 and recorded in Deed Book 165 Page 161 in the Rockcastle County Clerk's Office, between Gilbert Mink and Emma Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 115 Pages 108-109 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 15, 1996 and recorded in Deed Book 165 Page 163 in the Rockcastle County Clerk's Office, between Harold S. Robinson and Rachel C. Robinson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 107 Page 369 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 165 Page 164 in the Rockcastle County Clerk's Office, between Paul Drew, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 161 Pages 262-266 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 165 in the Rockcastle County Clerk's Office, between Marvin Smith and Dora Smith, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle. Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 113 Pages 146-147 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 170 in the Rockcastle County Clerk's Office), between Mary Helen Rice and James D. Rice, her husband, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock. Co. Water Assn. (Grantee) on a tract of land described in Deed Book 122 Pages 549-550 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 186 in the Rockcastle County Clerk's Office, between Vivian Renner, a/k/a Vivian R. Renner, a widow, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 159 Pages 564-566 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 193 in the Rockcastle County Clerk's Office, between George Harris and Margie Harris, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 143 Pages 111-113 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 7, 1996 and recorded in Deed Book 165 Page 197 in the Rockcastle County Clerk's Office, between Ernest Smith, a/k/a Ernie Smith and Alice Smith, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 156 Pages 60-63 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 27, 1996 and recorded in Deed Book 165 Page 203 in the Rockcastle County Clerk's Office, between Donald E. Wyatt and Rosemary Wyatt, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 110 Page 363 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 165 Page 205 in the Rockcastle County Clerk's Office, between Bruce Cook and Edna Jo Cook, a/k/a Edna Jo Baker Cook, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 145 Pages 309-310 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 21, 1996 and recorded in Deed Book 165 Page 206 in the Rockcastle County Clerk's Office, between Victor W. Krahenbuhl, a single person, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 133 Pag 387 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 207 in the Rockcastle County Clerk's Office, between Murphy Martin, Jr. and Eva Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 152 Pages 560-563 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 165 Page 208 in the Rockcastle County Clerk's Office, between Marion Durham and Linda L. Durham, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 154 Pages 681-683 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 14, 1996 and recorded in Deed Book 165 Page 209 in the Rockcastle County Clerk's Office, between George O. Shackelford and Juanita M. Shackelford, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 143 Page 100 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 165 Page 218 in the Rockcastle County Clerk's Office, between Michael Miller and Vickie Miller, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 133 Pages 574-578 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 216 in the Rockcastle County Clerk's Office, between Willmer Robinson and Kathy M. Robinson, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 142 Pages 342-345 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 165 Page 214 in the Rockcastle County Clerk's Office, between Robert D. Owens and Kimberly S. Owens, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 128 Pages 552-553 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 215 in the Rockcastle County Clerk's Office, between Opal Robinson, widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 115 Pages 117-119 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 13, 1996 and recorded in Deed Book 165 Page 213 in the Rockcastle County Clerk's Office, between David Howard, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 159 Page 64 and Book 160 Page 124 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 165 Page 212 in the Rockcastle County Clerk's Office, between Edd Powell and Florence Powell, his wife and also P.O.A. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 65 Pages 216-217 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 211 in the Rockcastle County Clerk's Office, between William G. Holt and Ruth L. Holt, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 133 Pages 696-697 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 210 in the Rockcastle County Clerk's Office, between Tevis Bryant, a widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 97 Pages 341-342 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 165 Page 204 in the Rockcastle County Clerk's Office, between Bruce Cook and Edna Jo Cook, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 155 Pages 149-151 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 165 Page 202 in the Rockcastle County Clerk's Office, between Suann Cromer, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 74 Pages 514-516 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 201 in the Rockcastle County Clerk's Office, between C.J. Carpenter and Mardella Carpenter, a/k/a Mardella D. Carpenter, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 93 Page 319 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 200 in the Rockcastle County Clerk's Office, between Farley Newcomb and Teresa Newcomb, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 149 Pages 474-476 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 165 Page 199 in the Rockcastle County Clerk's Office, between Jim Pheanis and Virginia Arlene Pheanis, a/k/a

Virginia Pheanis, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 72 Pages 655-657 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 15, 1996 and recorded in Deed Book 165 Page 198 in the Rockcastle County Clerk's Office, between Carolyn Sue Northern, a/k/a Carolyn Northern, divorced, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 136 Page 242 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 196 in the Rockcastle County Clerk's Office, between Marvin Smith and Dora Smith, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 131 Pages 216-218 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 7, 1996 and recorded in Deed Book 165 Page 195 in the Rockcastle County Clerk's Office, between John M. Allen and Susan L. Allen, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 160 Page 14 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 3, 1996 and recorded in Deed Book 165 Page 194 in the Rockcastle County Clerk's Office, between Lafey Smith and Elsie Smith, a/k/a Elise Smith, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 105 Page 476 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 192 in the Rockcastle County Clerk's Office, between Willene McClure, a widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 109 Pages 588-589 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 191 in the Rockcastle County Clerk's Office, between Bernard McCreary and Alma McCreary, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 139 Pages 151-154 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 190 in the Rockcastle County Clerk's Office, between William E. Phelps and Rita L. Phelps, a/k/a Rita Phelps, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 85 Page 527 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 189 in the Rockcastle County Clerk's Office, between Gerald Renner, a widower, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 139 Pages 19-21 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 188 in the Rockcastle County Clerk's Office, between Sherman Mize and Anna Mae Mize, a/k/a Anna Mize, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc.

(Grantee) on a tract of land described in Deed Book 100 Pages 597-598 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 187 in the Rockcastle County Clerk's Office, between Sherman Mize and Anna Mae Mize, a/k/a Anna Mize, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 114 Pages 503-504 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 185 in the Rockcastle County Clerk's Office, between Vivian R. Renner, a widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 102 Pages 667-668 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 6, 1996 and recorded in Deed Book 165 Page 184 in the Rockcastle County Clerk's Office, between Johnny Carpenter and Gladys Carpenter, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 154 Pages 22-24 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 183 in the Rockcastle County Clerk's Office, between Pleasant Run Baptist Church, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 25 Pages 238-239 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 8, 1996 and recorded in Deed Book 165 Page 182 in the Rockcastle County Clerk's Office, between Erik Slen and Deborah Slen, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 1102 Pages 380-381 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 181 in the Rockcastle County Clerk's Office, between Sam Tankersley, a/k/a Sam Tankersly and Novella Tankersley, a/k/a Novella Tankersly, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 81 Page 181 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 179 in the Rockcastle County Clerk's Office, between Joseph Clark and Maudie Clark, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 95 Pages 16-18 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 178 in the Rockcastle County Clerk's Office, between William H. Muncey, a/k/a William H. Muncy and Barbara J. Muncey, a/k/a Barbara J. Muncy, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 130 Pages 106-108 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 165 Page 177 in the Rockcastle County Clerk's Office, between Gladys Wynn, a widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 89 Pages 34-35 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 176 in the Rockcastle County Clerk's Office, between Howard McKinney and Emma McKinney, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 155 Pages 275-277 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 20, 1996 and recorded in Deed Book 165 Page 174 in the Rockcastle County Clerk's Office, between Howard Bullock and Ruth Bullock, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 98 Pages 640-641, Deed Book 74 Page 217 and Deed Book 86 Page 321 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 165 Page 173 in the Rockcastle County Clerk's Office, between Jearl E. Hasty and Louise Hasty, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assn. (Grantee) on a tract of land described in Deed Book 86 Page 306 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 165 Page 175 in the Rockcastle County Clerk's Office, between Shelby Mize and Rebecca Mize, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn. (Grantee) on a tract of land described in Deed Book 154 Pages 387-390 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 180 in the Rockcastle County Clerk's Office, between Fredy L. Ruppe and Anna Marie Ruppe, a/k/a Anna M. Ruppe, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 147 Page 9 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 165 Page 217 in the Rockcastle County Clerk's Office, between Donald J. Anglin and Rena K. Anglin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 98 Pages 352-353 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 19, 1997 and recorded in Deed Book 169 Page 256 in the Rockcastle County Clerk's Office, between Jack Bradley and Paulette Bradley, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 157 Page 136 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 21, 1996 and recorded in Deed Book 169 Page 255 in the Rockcastle County Clerk's Office, between James Bullock and Shelia Bullock, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 117 Pages 198-199 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 254 in the Rockcastle County Clerk's Office, between Steven D. Anglin and Judy Anglin, a/k/a Judy L. Anglin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 88 Pages 109-112 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 5, 1996 and recorded in Deed Book 169 Page 253 in the Rockcastle County Clerk's Office, between Robert Bob Allen and Alma Allen, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 68 Page 382 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 252 in the Rockcastle County Clerk's Office, between Willis Richardson, a widower, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 104 Pages 432-433 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 251 in the Rockcastle County Clerk's Office, between Willis Richardson, a widower, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 81 Pages 43-44 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 6, 1996 and recorded in Deed Book 169 Page 250 in the Rockcastle County Clerk's Office, between Dell Ponder and Gwendolyn Ponder, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 96 Pages 179-180 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 6, 1996 and recorded in Deed Book 169 Page 249 in the Rockcastle County Clerk's Office, between Dell Ponder and Gwendolyn Ponder, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 103 Pages 436-438 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 248 in the Rockcastle County Clerk's Office, between Sand Springs Baptist Church, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 103 Pages 611-612 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 15, 1997 and recorded in Deed Book 169 Page 247 in the Rockcastle County Clerk's Office, between Robert W. Fields and Edwina Ruth Fields, a/k/a Edwina W. Fields, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 160 Pages 428-431 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 5, 1997 and recorded in Deed Book 169 Page 246 in the Rockcastle County Clerk's Office, between Oneida Baptist Church, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 147 Pages 685-688 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 169 Page 244 in the Rockcastle County Clerk's Office, between Gary Mason, a/k/a Gary W. Mason, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 150 Pages 549-552 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 169 Page 243 in the Rockcastle County Clerk's Office, between Gary Mason, a/k/a Gary W. Mason, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 131 Pages 585-586 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1997 and recorded in Deed Book 169 Page 240 in the Rockcastle County Clerk's Office, between Billy Lonell and Marcella Lonell, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 151 Pages 425-427 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 239 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs, Floyd N. Bullock, Administrator, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 56 Page 569 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 238 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs, Floyd N. Bullock, Administrator, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 56 Page 569 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 27, 1998 and recorded in Deed Book 169 Page 235 in the Rockcastle County Clerk's Office, between Elmer Ballinger Heirs/Geneva B. Hedgepeth, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 94 Page 199 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 232 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 152 Page 456 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 231 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 158 Page 222 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 23, 1996 and recorded in Deed Book 169 Page 229 in the Rockcastle County Clerk's Office, between Bob Woodall and Corine Woodall, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 145 Pages 264-265 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 8, 1997 and recorded in Deed Book 169 Page 228 in the Rockcastle County Clerk's Office, between Perry L. Arnold and Jean Arnold, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 153 Page 289 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated October 2, 1996 and recorded in Deed Book 169 Page 227 in the Rockcastle County Clerk's Office, between Dores M. Vazmina, a/k/a Doris M. Vazmina, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 91 Page 634 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 17, 1996 and recorded in Deed Book 169 Page 225 in the Rockcastle County Clerk's Office, between Roy Singleton and Beulah Singleton, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book Will B. 3 Page 598 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 224 in the Rockcastle County Clerk's Office, between Robert Literal and Cassie Vendergriff, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 140 Page 226 and deed Book 163 Page 366 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 18, 1997 and recorded in Deed Book 169 Page 221 in the Rockcastle County Clerk's Office, between Leigh Ann Ledford, a/k/a Leigh Ledford, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 160 Pages 491-492 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 30, 1996 and recorded in Deed Book 169 Page 219 in the Rockcastle County Clerk's Office, between Bobby Parker, a/k/a Bobby J. Parker and Betty Parker, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 97 Pages 425-427 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 218 in the Rockcastle County Clerk's Office, between Joyce Renner Wilkerson, a/k/a Joyce Wilkerson and Danny Wilkerson, her husband, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 107 Pages 331-332 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 19, 1997 and recorded in Deed Book 169 Page 217 in the Rockcastle County Clerk's Office, between Freddie Renner and Lela Renner, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 161 Pages 349-351 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 216 in the Rockcastle County Clerk's Office, between Paul Renner, Jr. and Glenna Renner, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 124 Pages 203-205 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 15, 1996 and recorded in Deed Book 169 Page 212 in the Rockcastle County Clerk's Office, between Calvin Mize and Geraldine Mize, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 150 Pages 294-296 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 211 in the Rockcastle County Clerk's Office, between Paul Renner, Jr. and Glenna Renner, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 142 Pages 203-205 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 169 Page 210 in the Rockcastle County Clerk's Office, between Arnel Taylor, a/k/a Arnel C. Taylor and Mary Taylor, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 91 Page 344 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 169 Page 209 in the Rockcastle County Clerk's Office, between Arnel Taylor, a/k/a Arnel C. Taylor and Mary Taylor, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 126 Pages 689-691 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 31, 1996 and recorded in Deed Book 169 Page 208 in the Rockcastle County Clerk's Office, between Roy Scroggins, a widower, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 107 Page 501 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 28, 1996 and recorded in Deed Book 169 Page 207 in the Rockcastle County Clerk's Office, between Stanley Graves and Mary A. Graves, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 91 Page 337 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 205 in the Rockcastle County Clerk's Office, between Roy Rains and Karen Rains, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 132 Pages 245-246 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 27, 1997 and recorded in Deed Book 169 Page 202 in the Rockcastle County Clerk's Office, between Roger, Thomas, Granville and Winfred Graves, signed by Roger Graves, a/k/a Roger H. Graves, Power of Attorney, (Grantors) and Eastern Rockcastle Water Association, Inc., a/k/a R.C.W.A. Rockcastle Water Assn.(Grantee) on a tract of land described in Deed Book 143 Pages 676-677 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 16, 1996 and recorded in Deed Book 165 Page 221 in the Rockcastle County Clerk's Office, between Burgess Daugherty and Barbara Daugherty, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 89 Page 243 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 220 in the Rockcastle County Clerk's Office, between Bernard Zars, a/k/a Bernard Zares and Naomi Zars. a/k/a Naomi Zares, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 157 Pages 164-168 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 165 Page 219 in the Rockcastle County Clerk's Office, between Kenneth B. Gilliam and Shirley Gilliam, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc., a/k/a Rock Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 73 Page 481 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 214 in the Rockcastle County Clerk's Office, between Jack Bradley and Paulette Bradley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 123 Pages 206-208 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 213 in the Rockcastle County Clerk's Office, between Bueal Marler and Peggy Marler, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 109 Pages 142-144 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 169 Page 237 in the Rockcastle County Clerk's Office, between Melvin Hensley, a single person (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 139 Pages 388-391 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 29, 1996 and recorded in Deed Book 169 Page 236 in the Rockcastle County Clerk's Office, between Fred Ruppe, a/k/a F.L. Ruppe and Anna M. Ruppe, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 163 Page 633 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 26, 1997 and recorded in Deed Book 169 Page 242 in the Rockcastle County Clerk's Office, between Dewey Robbins and Zora Robbins, a/k/a Zoria Robbins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 129 Pages 701-702 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 241 in the Rockcastle County Clerk's Office, between Arlis McFerron and Bonnie McFerron, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 162 Pages 445-447 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 27, 1997 and recorded in Deed Book 169 Page 245 in the Rockcastle County Clerk's Office, between Joseph Korn and Tamira Korn, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 157 Pages 475-478 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 201 in the Rockcastle County Clerk's Office, between Tammy B. Miller, divorced, (Grantor) and Eastern

Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 158 Pages 253-255 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 19, 1996 and recorded in Deed Book 169 Page 203 in the Rockcastle County Clerk's Office, between Shelby Graves, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 145 Pages 275-277 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 29, 1996 and recorded in Deed Book 169 Page 204 in the Rockcastle County Clerk's Office, between Clyde B. Hodge and Kathy Ann Hodge, a/k/a Kathy A. Hodge, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 133 Pages 409-410 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 27, 1997 and recorded in Deed Book 169 Page 206 in the Rockcastle County Clerk's Office, between Paul Thomason and faye Thomason, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 92 Pages 259-261 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 21, 1996 and recorded in Deed Book 169 Page 215 in the Rockcastle County Clerk's Office, between Terry McKinney and Gloria McKinney, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 138 Pages 289-290 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 30, 1996 and recorded in Deed Book 169 Page 220 in the Rockcastle County Clerk's Office, between Joseph F. Druien and Juanita P. Druien, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 161 Pages 289-291 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 222 in the Rockcastle County Clerk's Office, between Michael P. McGuire and Melinda McGuire, a/k/a Melinda K. McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assoc.. (Grantee) on a tract of land described in Deed Book 146 Page 341 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 223 in the Rockcastle County Clerk's Office, between Michael P. McGuire and Melinda McGuire, a/k/a Melinda K. McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 146 Page 341 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 21, 1996 and recorded in Deed Book 169 Page 226 in the Rockcastle County Clerk's Office, between Larry K. Mink (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 137 Pages 382-384 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 3, 1997 and recorded in Deed Book 169 Page 230 in the Rockcastle County Clerk's Office, between James W. Lambert, a widower, (Grantor) and Eastern

Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association (Grantee) on a tract of land described in Deed Book 125 Page 359 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated November 16, 1996 and recorded in Deed Book 169 Page 233 in the Rockcastle County Clerk's Office, between Larry Shepherd, a/k/a Larry R. Shepherd and Elizabeth A. Shepherd, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 145 Pages 54-56 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 16, 1996 and recorded in Deed Book 169 Page 234 in the Rockcastle County Clerk's Office, between Gilbert Shepherd and Ruth E. Shepherd, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 145 Pages 54-56 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 20, 1996 and recorded in Deed Book 169 Page 257 in the Rockcastle County Clerk's Office, between Shirley McClure and Connie McClure (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 92 Page 112 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 349 in the Rockcastle County Clerk's Office, between Alan Van Winkle and Mary Ann Van Winkle (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 118 Pages 430-431 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 17, 1997 and recorded in Deed Book 169 Page 313 in the Rockcastle County Clerk's Office, between James McClure, a/k/a James E. McClure and Roberta McClure, a/k/a Roberta R. McClure his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 152 Pages 209-211 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 26, 1996 and recorded in Deed Book 169 Page 312 in the Rockcastle County Clerk's Office, between Blaine McHarque and Carol B. McHarque, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 134 Pages 50-53 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 298 in the Rockcastle County Clerk's Office, between Michael P. McGuire and Melinda K. McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 146 Page 341 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 25, 1997 and recorded in Deed Book 169 Page 292 in the Rockcastle County Clerk's Office, between Victor James and Linda James, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 119 Page 128 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 20, 1998 and recorded in Deed Book 169 Page 286 in the Rockcastle County Clerk's Office, between Bruce F. Cook and Edna Jo Baker Cook, a/k/a Edna J. Baker, his wife, (Grantors) and Rockcastle Water Association, Inc. a/k/a Rockcastle

Water Assoc. (Grantee) on a tract of land described in Deed Book 145 Pages 309-310 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 281 in the Rockcastle County Clerk's Office, between William McClure and Rena McClure, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A.(Grantee) on a tract of land described in Deed Book 79 Page 204 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 27, 1997 and recorded in Deed Book 169 Page 259 in the Rockcastle County Clerk's Office, between Garry Robbins and Lisa Robbins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 138 Pages 641-642 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 25, 1997 and recorded in Deed Book 169 Page 319 in the Rockcastle County Clerk's Office, between Jessie McFerron and Lorita McFerron, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 156 Pages 486-489 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 10, 1997 and recorded in Deed Book 169 Page 318 in the Rockcastle County Clerk's Office, between Helen Jackson-Gibbs (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 163 Pages 666-668 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 18, 1996 and recorded in Deed Book 169 Page 317 in the Rockcastle County Clerk's Office, between Lonnie Vanzant and Teresa Vanzant, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 138 Pages 666-669 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 21, 1996 and recorded in Deed Book 169 Page 316 in the Rockcastle County Clerk's Office, between Murphy Martin, Jr. and Eva Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 152 Pages 560-563 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 315 in the Rockcastle County Clerk's Office, between Murphy Martin, Jr. and Eva Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 148 Pages 641-643 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 314 in the Rockcastle County Clerk's Office, between Murphy Martin, Jr. and Eva Martin, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 148 Page 640 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 4, 1996 and recorded in Deed Book 169 Page 311 in the Rockcastle County Clerk's Office, between Hoover C. Bullock, Lucille Bullock, Ernest E. Bullock,

Jr. and Betty C. Bullock (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 82 Pages 443-446 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 19, 1996 and recorded in Deed Book 169 Page 310 in the Rockcastle County Clerk's Office, between Dewayne Slusher and Elizabeth Slusher, a/k/a Elizabeth T. Slusher, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 157 Page 94 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 27, 1996 and recorded in Deed Book 169 Page 309 in the Rockcastle County Clerk's Office, between Elizah Clark, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 142 Page 665 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 19, 1996 and recorded in Deed Book 169 Page 308 in the Rockcastle County Clerk's Office, between John Mullins and Darlene L. Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 141 Pages 666-668 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 24, 1996 and recorded in Deed Book 169 Page 307 in the Rockcastle County Clerk's Office, between Hans L. Lindblom and Betty D. Lindblom, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 146 Page 172 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 26, 1997 and recorded in Deed Book 169 Page 306 in the Rockcastle County Clerk's Office, between Howard Bullock and Ruth Bullock, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 105 Pages 126-131 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 4, 1996 and recorded in Deed Book 169 Page 305 in the Rockcastle County Clerk's Office, between Sandra S. Doan, Trustee, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 152 Page 489 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 304 in the Rockcastle County Clerk's Office, between Keith Cromer (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 162 Pages 600-606 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 4, 1996 and recorded in Deed Book 169 Page 303 in the Rockcastle County Clerk's Office, between Tillo Mink, a widow, by Ruby Norton (P.O.A. for Tillo Mink) (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 78 Page 463 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 302 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, a/k/a Anita G. Coffey (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn.

(Grantee) on a tract of land described in Deed Book 164 Page 44 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 29, 1996 and recorded in Deed Book 169 Page 301 in the Rockcastle County Clerk's Office, between Curtis Durham, a/k/a Curtis W. Durham and Mary Durham, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 114 Pages 557-558 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 20 1996 and recorded in Deed Book 169 Page 300 in the Rockcastle County Clerk's Office, between Marvin D. Carpenter and Carolyn S. Carpenter, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 140 Page 392 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 299 in the Rockcastle County Clerk's Office, between Michael P. McGuire and Melinda K. McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 146 Page 341 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 5, 1996 and recorded in Deed Book 169 Page 297 in the Rockcastle County Clerk's Office, between Floyd Renner (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 137 Pages 66-68 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 169 Page 296 in the Rockcastle County Clerk's Office, between Ernest Renner and Naomia Renner, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 150 Pages 539-540 and Deed Book 146 Pages 464-465 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 25, 1997 and recorded in Deed Book 169 Page 295 in the Rockcastle County Clerk's Office, between Delmer Mink, Muriel Mink, Leo Mink and Eula Mink (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 143 Page 352 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 294 in the Rockcastle County Clerk's Office, between Lanny Mink (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 156 Pages 584-586 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 24, 1997 and recorded in Deed Book 169 Page 293 in the Rockcastle County Clerk's Office, between Ronald Mink and Flossie Mink, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 136 Page 684 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 291 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, a/k/a Anita G. Coffey, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn.

(Grantee) on a tract of land described in Deed Book 152 Page 456 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 290 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, a/k/a Anita G. Coffey, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 122 Page 265 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 28, 1996 and recorded in Deed Book 169 Page 289 in the Rockcastle County Clerk's Office, between Vester McGuire and Ada McGuire, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 89 Page 71 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 169 Page 288 in the Rockcastle County Clerk's Office, between Melvin Hensley, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 163 Pages 13-17 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 27, 1996 and recorded in Deed Book 169 Page 287 in the Rockcastle County Clerk's Office, between Louise Allen, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 96 Pages 625-626 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 169 Page 285 in the Rockcastle County Clerk's Office, between Bruce Cook and Edna J. Baker, a/k/a Edna Jo Baker Cook, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 145 Pages 307-309 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 14, 1997 and recorded in Deed Book 169 Page 284 in the Rockcastle County Clerk's Office, between Bruce Cook and Edna J. Baker, a/k/a Edna Jo Baker Cook, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 155 Pages 149-151 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 31, 1996 and recorded in Deed Book 169 Page 283 in the Rockcastle County Clerk's Office, between Robert L. Witt IV and Norma Jean Witt, a/k/a Norma J. Witt (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 158 Pages 264-268 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 28, 1998 and recorded in Deed Book 169 Page 282 in the Rockcastle County Clerk's Office, between Victor W. Kirahenbul (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 133 Page 387 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 280 in the Rockcastle County Clerk's Office, between William McClure and Rena McClure, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 80 Page 507 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 2, 1996 and recorded in Deed Book 169 Page 279 in the Rockcastle County Clerk's Office, between Bessie Cromer, a widow, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 79 Pages 587-588 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 278 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs, Floyd N. Bullock, Administrator (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 56 Page 569 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 15, 1997 and recorded in Deed Book 169 Page 277 in the Rockcastle County Clerk's Office, between David Taylor (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 88 Page 625 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 276 in the Rockcastle County Clerk's Office, between Chester Robinson (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 80 Page 514 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 275 in the Rockcastle County Clerk's Office, between Sam Carroll and Sue Carroll, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 132 Page 482 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 26, 1998 and recorded in Deed Book 169 Page 274 in the Rockcastle County Clerk's Office, between Lonnie McGuire and Pam McGuire, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 135 Page 342 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 15, 1996 and recorded in Deed Book 169 Page 273 in the Rockcastle County Clerk's Office, between Robert Wood Fields, a/k/a Robert W. Fields and Edwina Ruth Fields, a/k/a Edwina W. Fields (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 101 Pages 273-274 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 5, 1997 and recorded in Deed Book 169 Page 272 in the Rockcastle County Clerk's Office, between Charles Dwain Kelley and Jane Gail Kelley, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Assn., Inc. (Grantee) on a tract of land described in Deed Book 101 Pages 357-358 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 21, 1998 and recorded in Deed Book 169 Page 271 in the Rockcastle County Clerk's Office, between John Justice and Connie Justice by Emma J. Mink P.O.A., (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 133 Pages 512-514 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 26, 1998 and recorded in Deed Book 169 Page 269 in the Rockcastle County Clerk's Office, between Michael L. Debord and Debra C. Debord (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc.

(Grantee) on a tract of land described in Deed Book 167 Pages 560-562 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 270 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs by Floyd N. Bullock, Administrator (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 71 Page 38 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 14, 1996 and recorded in Deed Book 169 Page 268 in the Rockcastle County Clerk's Office, between William H. Smith, Laura Bell Smith and Cromer Smith (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 162 Pages 557-559 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 267 in the Rockcastle County Clerk's Office, between William McClure and Rena McClure, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 79 Page 204 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 266 in the Rockcastle County Clerk's Office, between Milton Cox, a single person, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 114 Pages 455-456 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 25, 1997 and recorded in Deed Book 169 Page 265 in the Rockcastle County Clerk's Office, between Paul Renner, Jr., a/k/a Paul Renner and Glenna Renner, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 94 Page 349 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 264 in the Rockcastle County Clerk's Office, between Sand Springs Baptist Church, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 103 Pages 611-612 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 169 Page 263 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs by Floyd M. Bullock, Administrator (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 56 Page 569 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 12, 1996 and recorded in Deed Book 169 Page 262 in the Rockcastle County Clerk's Office, between Sherman Mize and Anna Mize, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 114 Pages 503-504 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 19, 1997 and recorded in Deed Book 169 Page 261 in the Rockcastle County Clerk's Office, between Thomas Calhoun and Margot Calhoun (Grantors)

and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 116 Pages 289-290 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated February 19, 1997 and recorded in Deed Book 169 Page 260 in the Rockcastle County Clerk's Office, between Emma Doan, a widow, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 70 Page 360 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 27, 1997 and recorded in Deed Book 169 Page 258 in the Rockcastle County Clerk's Office, between Jerry Robbins and Millie Robbins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn.(Grantee) on a tract of land described in Deed Book 71 Pages 390-393 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 320 in the Rockcastle County Clerk's Office, between Milton Cox, a single person (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 136 Pages 607-609 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 4, 1996 and recorded in Deed Book 169 Page 321 in the Rockcastle County Clerk's Office, between Martha Asher (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 111 Pages 26-28 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 169 Page 322 in the Rockcastle County Clerk's Office, between Richard Mullins and Frances Mullins, his wife, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 84 Page 102 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 24, 1996 and recorded in Deed Book 169 Page 323 in the Rockcastle County Clerk's Office, between Ralph Powell and Lyla Powell, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 149 Page 59 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 23, 1996 and recorded in Deed Book 169 Page 324 in the Rockcastle County Clerk's Office, between Larry Hubbard, a/k/a Larry C. Hubbard and Renie Johnson (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 161 Page 153 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 27, 1996 and recorded in Deed Book _____ Page 326 in the Rockcastle County Clerk's Office, between Willie Bill Hammond, a/k/a Willie Hammond, Administrator (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 156 Page 635 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 19, 1996 and recorded in Deed Book 169 Page 327 in the Rockcastle County Clerk's Office, between Jewel Spivey (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 95 Page 391 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated January 24, 1997 and recorded in Deed Book 169 Page 328 in the Rockcastle County Clerk's Office, between Anita Gayle Coffey, a/k/a Anita G. Coffey (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 151 Page 136 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 4, 1996 and recorded in Deed Book 169 Page 329 in the Rockcastle County Clerk's Office, between Earl H. Bullock, Hoover C. Bullock, Lucille Bullock, Earnest E. Bullock, Jr., Betty C. Bullock and Brenda Bullock (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 137 Page 491 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 332 in the Rockcastle County Clerk's Office, between Saul Carpenter and Fathia (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 93 Page 394 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 333 in the Rockcastle County Clerk's Office, between Roland Tankersley and Linda Tankersley, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 121 Pages 298-300 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29 1996 and recorded in Deed Book 169 Page 334 in the Rockcastle County Clerk's Office, between John Robert Ruppe, a/k/a John R. Ruppe and Marie Ruppe, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 80 Page 96 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 21, 1996 and recorded in Deed Book 169 Pages 335-336 in the Rockcastle County Clerk's Office, between Robert P. Griffin, a/k/a Robert Paul Griffin and Sally Griffin (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 137 Pages 377-378 and deed Book 145 Pages 535-537 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 337 in the Rockcastle County Clerk's Office, between Walter Gilbert and Opal gilbert, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 145 Pages 671-673 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 28, 1996 and recorded in Deed Book 169 Page 338 in the Rockcastle County Clerk's Office, between Louise Allen, a widow (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 94 Page 93 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 28, 1996 and recorded in Deed Book 169 Page 339 in the Rockcastle County Clerk's Office, between Louise Allen, a widow (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 93 Page 106 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 9, 1996 and recorded in Deed Book 169 Page 340 in the Rockcastle County Clerk's Office, between Leonard Hammond and Demie Hammond, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 129 Pages 108-110 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 12, 1996 and recorded in Deed Book 169 Page 341 in the Rockcastle County Clerk's Office, between Danny Hinton, a/k/a Danny W. Hinton and Carolyn S. Hinton, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 142 Pages 254-258 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 13, 1996 and recorded in Deed Book 169 Page 342 in the Rockcastle County Clerk's Office, between Jack D. Martin and Darlene L. Martin, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 89 Page 258 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 169 Page 343 in the Rockcastle County Clerk's Office, between Gene Martin and Darlene Martin, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 77 Page 74 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 10, 1996 and recorded in Deed Book 169 Page 344 in the Rockcastle County Clerk's Office, between Aaron Pheanis, a/k/a A.J. Pheanis and Helen B. Pheanis, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 107 Pages 775-776 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 345 in the Rockcastle County Clerk's Office, between Stephen Eversole and Tammy Isaacs (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 145 Pages 100-102 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 29, 1996 and recorded in Deed Book 169 Page 346 in the Rockcastle County Clerk's Office, between Gertrude Tankersley, a widow and Roland Tankersley P.O.A. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 121 Pages 301-303 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 12, 1996 and recorded in Deed Book 169 Page 347 in the Rockcastle County Clerk's Office, between Jeff Brock, divorced (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 143 Page 624 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 10, 1997 and recorded in Deed Book 169 Page 348 in the Rockcastle County Clerk's Office, between James Amyx and Peggy Amyx, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Association. (Grantee) on a tract of land described in Deed Book 121 Page 79 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 169 Page 351 in the Rockcastle County Clerk's Office, between Julie K. Childress, a single person (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 158 Pages 498-501 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 8, 1998 and recorded in Deed Book 169 Page 353 in the Rockcastle County Clerk's Office, between Audrey Woodall (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 119 Page 503 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 27, 1996 and recorded in Deed Book 169 Page 354 in the Rockcastle County Clerk's Office, between W.J. Sturgill by Charlie Sturgill P.O.A. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 79 Page 17 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 11, 1996 and recorded in Deed Book 169 Page 355 in the Rockcastle County Clerk's Office, between Jerline Dooley, a widow (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 131 Page 3 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 23, 1996 and recorded in Deed Book 169 Page 358 in the Rockcastle County Clerk's Office, between William Sparkman and Janet Sparkman, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assoc. (Grantee) on a tract of land described in Deed Book 130 Page 455 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 23, 1996 and recorded in Deed Book 169 Page 359 in the Rockcastle County Clerk's Office, between H.C. Anderson and Helen Anderson, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 51 Page 232 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 28, 1996 and recorded in Deed Book 169 Page 360 in the Rockcastle County Clerk's Office, between David Cope, a/k/a Noah Cope, a/k/a Noah David Cope Allen, (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 156 Pages 587-592 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 169 Page 361 in the Rockcastle County Clerk's Office, between Bryan Castleberry and Barbara Castleberry, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 124 Pages 456-460 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 169 Page 362 in the Rockcastle County Clerk's Office, between Bryan Castleberry and Barbara Castleberry, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 140 Pages 415-418 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 11, 1996 and recorded in Deed Book 169 Page 365 in the Rockcastle County Clerk's Office, between Richard Clayton Singleton and Rebecca Singleton, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 162 Page 211 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated November 11, 1996 and recorded in Deed Book 169 Page 366 in the Rockcastle County Clerk's Office, between Lee Hammond and Barbara Hammond, a/k/a Barbara K. Hammond, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 163 Pages 357-359 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 169 Page 367 in the Rockcastle County Clerk's Office, between Clarence Gilliam (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 73 Page 491 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1997 and recorded in Deed Book 169 Page 369 in the Rockcastle County Clerk's Office, between Gladys Wynn, a widow (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 89 Pages 34-35 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated December 2, 1996 and recorded in Deed Book 169 Page 370 in the Rockcastle County Clerk's Office, between Larry B. Hammond and Lee B. Hammond (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 90 Page 458 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 15, 1996 and recorded in Deed Book 169 Page 371 in the Rockcastle County Clerk's Office, between Jerry S. Ikerd, a/k/a Jerry Ikerd and Brenda M. Ikerd, a/k/a Barbara Ikerd, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 133 Pages 427-431 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 9, 1997 and recorded in Deed Book 169 Page 373 in the Rockcastle County Clerk's Office, between Daisy Finnell (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 81 Pages 124-125 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 2, 1997 and recorded in Deed Book 169 Page 539 in the Rockcastle County Clerk's Office, between Ralph Hamilton and Connie Hamilton, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 143 Page 656 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 519 in the Rockcastle County Clerk's Office, between Pleas Wise, a single person (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 78 Page 55 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 518 in the Rockcastle County Clerk's Office, between Lucy Hundley by Alma Branstatter P.O.A. (Grantors)

- and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 78 Page 40 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 25, 1998 and recorded in Deed Book 169 Page 510 in the Rockcastle County Clerk's Office, between Mae Howard (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 139 Page 265 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated March 18, 1998 and recorded in Deed Book 169 Page 508 in the Rockcastle County Clerk's Office, between Henry Abney, a/k/a Henry L. Anbey (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc., Inc. (Grantee) on a tract of land described in Deed Book 150 Page 632 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated March 30, 1998 and recorded in Deed Book 169 Page 513 in the Rockcastle County Clerk's Office, between Carrie Stallsworth and Dora Girod (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 156 Page 551 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated August 20, 1996 and recorded in Deed Book 169 Page 356 in the Rockcastle County Clerk's Office, between Cecil Northern and Beckie Northern, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 158 Page 429 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated August 22, 1996 and recorded in Deed Book 169 Page 357 in the Rockcastle County Clerk's Office, between Bobby D. Owens and Kimberly S. Owens, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 150 Pages 241-243 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated January 8, 1998 and recorded in Deed Book 169 Page 325 in the Rockcastle County Clerk's Office, between Bud Brewer and Connie Brewer, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C. Water Assoc. (Grantee) on a tract of land described in Deed Book 160 Pages 611-612 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated December 9, 1996 and recorded in Deed Book 169 Page 372 in the Rockcastle County Clerk's Office, between James W. Mullins and Thelma Mullins, a/k/a Thelma C. Mullins, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 154 Page 448 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated November 25, 1996 and recorded in Deed Book 169 Page 368 in the Rockcastle County Clerk's Office, between Kenneth Gilliam and Shirley Gilliam, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 126 Page 388 in the Rockcastle County Clerk's Office.
 - Right-of-Way Easement dated August 20, 1996 and recorded in Deed Book 169 Page 364 in the Rockcastle County Clerk's Office, between Cecil Northern and Beckie Northern, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 157 Page 599 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated August 31, 1996 and recorded in Deed Book 169 Page 363 in the Rockcastle County Clerk's Office, between Cecil L. Northern, divorced (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 160 Pages 458-461 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 169 Page 352 in the Rockcastle County Clerk's Office, between Bob Woodall and Corine Woodall, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 98 Pages 680-681 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 169 Page 350 in the Rockcastle County Clerk's Office, between Bob Woodall and Corine Woodall, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 122 Pages 640-641 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 12, 1996 and recorded in Deed Book 169 Page 330 in the Rockcastle County Clerk's Office, between Danny W. Hinton, a/k/a Danny Hinton and Carolyn S. Hinton, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 126 Pages 737-738 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 30, 1996 and recorded in Deed Book 169 Page 331 in the Rockcastle County Clerk's Office, between Eddie Powell and Kathy Powell, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 152 Pages 655-657 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 27, 1996 and recorded in Deed Book 169 Page 541 in the Rockcastle County Clerk's Office, between Aley Gilbert, a widow (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 124 Page 469 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 5, 1996 and recorded in Deed Book 169 Page 509 in the Rockcastle County Clerk's Office, between Lee Hammond and Barbara Hammond, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 74 Pages 511-513 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 27, 1998 and recorded in Deed Book 169 Page 540 in the Rockcastle County Clerk's Office, between Samuel L. Koons (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 114 Pages 675-676 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 515 in the Rockcastle County Clerk's Office, between Burgess Abney by Larry Hammond P.O.A. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. Inc. (Grantee) on a tract of land described in Deed Book 82 Page 582 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 21, 1998 and recorded in Deed Book 169 Page 517 in the Rockcastle County Clerk's Office, between William B. Powell and Beatrice A. Powell, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water

Association, Inc. (Grantee) on a tract of land described in Deed Book 78 Page 21 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 514 in the Rockcastle County Clerk's Office, between Bentley Carpenter and Ramona Carpenter, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 131 Page 104 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 516 in the Rockcastle County Clerk's Office, between Albert R. Mooney and Vicki Mooney, a/k/a Vicki N. Mooney, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 169 Page 405 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 28, 1997 and recorded in Deed Book 169 Page 616 in the Rockcastle County Clerk's Office, between John Thorne (the son of Dale G. Thorne and Anita Marie Thorne) (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assn., Inc. (Grantee) on a tract of land described in Deed Book 97 Pages 368-369 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 2, 1998 and recorded in Deed Book 169 Page 665 in the Rockcastle County Clerk's Office, between Carlos Phillips and Ruby Phillips, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 91 Page 477 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated February 21, 1997 and recorded in Deed Book 169 Page 615 in the Rockcastle County Clerk's Office, between Randal Corry and Kathryn Lee Corry, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Assn., Inc. (Grantee) on a tract of land described in Deed Book 162 Pages 667-671 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 28, 1997 and recorded in Deed Book 169 Pages 610-614 in the Rockcastle County Clerk's Office, between Roy Lee Bivins and Sarah K. Bivins by Lynn B. Anderson P.O.A. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Assn., Inc. (Grantee) on a tract of land described in Deed Book 104 Pages 596-597 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 1, 1998 and recorded in Deed Book 169 Page 664 in the Rockcastle County Clerk's Office, between Jackson Phillips and Dianah Phillips, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 135 Page 589 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 2, 1998 and recorded in Deed Book 169 Page 590 in the Rockcastle County Clerk's Office, between Randy Tankersley (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc. (Grantee) on a tract of land described in Deed Book 139 Page 7 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 13, 1999 and recorded in Deed Book 176 Page 477 in the Rockcastle County Clerk's Office, between Lisa Bullock (Grantor) and Eastern Rockcastle

Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 173 Pages 84-85 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated December 6, 1996 and recorded in Deed Book 176 Page 480 in the Rockcastle County Clerk's Office, between S.E. Bullock Heirs by Floyd N. Bullock, Administrator (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 75 Page 347 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 11, 1999 and recorded in Deed Book 176 Page 554 in the Rockcastle County Clerk's Office, between Howard Bullock and Ruth Bullock, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 105 Pages 126-131 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated May 26, 1997 and recorded in Deed Book 176 Page 478 in the Rockcastle County Clerk's Office, between Polly G. Abney, Rodney B. Graves and Judith Kennedy (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 154 Pages 461-464 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 13, 1999 and recorded in Deed Book 176 Page 476 in the Rockcastle County Clerk's Office, between Gerald D. Mink (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 161 Pages 94-96 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 22, 1999 and recorded in Deed Book 176 Page 473 in the Rockcastle County Clerk's Office, between Douglas Thomas (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 169 Pages 47-51 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated September 15, 1999 and recorded in Deed Book 176 Page 479 in the Rockcastle County Clerk's Office, between J.E. Calhoun Estate by Emma Doan, Administrator (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 64 Page 168 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated August 1, 1996 and recorded in Deed Book 176 Page 475 in the Rockcastle County Clerk's Office, between Charles Miller and Melissa Miller, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. (Grantee) on a tract of land described in Deed Book 155 Pages 182-184 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 17, 2002 and recorded in Deed Book 189 Page 227 in the Rockcastle County Clerk's Office, between D.F. Cottingim and Lucy Cottingim, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 312 Pages 315-316 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated April 17, 2002 and recorded in Deed Book 189 Page 228 in the Rockcastle County Clerk's Office, between Anita Coffey and William Coffey, Jr. (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc.

(Grantee) on a tract of land described in Deed Book 164 Pages 44-50 in the Rockcastle County Clerk's Office.

- Right-of-Way Easement dated September 15, 1999 and recorded in Deed Book 176 Page 474 in the Rockcastle County Clerk's Office, between Kermit R. Bowling (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 123 Pages 479-482 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated October 11, 1999 and recorded in Deed Book 176 Page 555 in the Rockcastle County Clerk's Office, between Gary Cromer, a/k/a Garry Cromer and Anthony Cromer, (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 168 Pages 618-621 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 18, 1998 and recorded in Deed Book 169 Page 511 in the Rockcastle County Clerk's Office, between Ralph Cottier, a/k/a Ralph J. Cottier (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Castle Water Association, Inc. (Grantee) on a tract of land described in Deed Book 163 Page 701 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated July 23, 1969 and recorded in Deed Book 175 Page 582 in the Rockcastle County Clerk's Office, between Larry B. Hammond and Rebekah S. Hammond, his wife (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a R.C.W.A. Rockcastle Water Assn. (Grantee) on a tract of land described in Deed Book 151 Page 447 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated January 8, 1996 and recorded in Deed Book 169 Page 617 in the Rockcastle County Clerk's Office, between Cleft Rock Christian Ministries (Grantor) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle Co. Water Assoc., Inc. (Grantee) on a tract of land described in Deed Book 156 Pages 133-134 in the Rockcastle County Clerk's Office.
- Right-of-Way Easement dated March 24, 1998 and recorded in Deed Book 169 Page 512 in the Rockcastle County Clerk's Office, between Union Baptist Church (by Arlee L. Remer) (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Rockcastle County Water Association, Inc. (Grantee) on a tract of land described in Deed Book 149 Page 536 in the Rockcastle County Clerk's Office.
- Electric Line Easement dated June 11, 2009 and recorded in Deed Book 226 Pages 628-631 in the Rockcastle County Clerk's Office, between William Stanley and Maudie Stanley (Grantors) and Eastern Rockcastle Water Association, Inc. a/k/a Eastern Rockcastle Water Association (Grantee) on a tract of land described in Deed Book 170 Page 430 in the Rockcastle County Clerk's Office.

**Schedule 3.6
Contracts**

Lease for tank site between Noal Pigg, Jr. (lessor) and Rockcastle Water Association, Inc. (lessee)

Water Purchased Agreement (and amendments) – City of Mount Vernon

Water Purchased Agreement (and amendments) – Jackson County Water Association, Inc.

Water Purchased Agreement (and amendments) – City of Livingston



A handwritten signature in black ink, appearing to be 'R. Pigg', is written over a horizontal line. Below the signature, the date '2/2/19' is written in a similar cursive style.

**Schedule 3.7(a)
Environmental Matters**

Seller has no environmental matters to disclose to buyer.

Handwritten signature and initials, possibly "AW 19", written in black ink.

**Schedule 3.8
Permits**

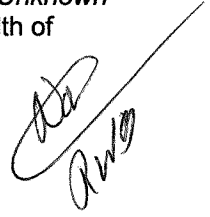
Kentucky Division of Water Public Water System Identification Number is KY1020288.

USDA Forest Service Special Use Permit BER4186-02

A handwritten signature in black ink, consisting of a stylized name and the initials 'AWB' written below it. A long diagonal line extends from the top right of the signature across the page.

**Schedule 3.12
Proceedings**

Johnny Dwayne Bowling & Christy Stevens v. Eastern Rockcastle Water Association, Inc. & Unknown Employees, Agents, or Assigns of Eastern Rockcastle Water Association, Inc., Commonwealth of Kentucky, 28th Judicial District, Rockcastle Circuit Court, Division I, Case No. 18-CI-00003

Handwritten signature and initials, possibly "JDB" and "CS", written in black ink.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 92.** Provide non-revenue water calculations for the Eastern Rockcastle system for each 12 months since March 2017, which includes a 12-month period prior to KAWC's ownership. Please clearly identify each component of the non-revenue water calculation.

Response:

Please see the attachment. Please note March 2018 was the month Kentucky-American took ownership of the system and began the process of installing new meters for all customers. The activity took numerous weeks to complete which resulted in lower sales for the initial startup of the operation. Also, due to the timing of receiving purchased water information, system delivery was not entered in our system for the month.

Rockcastle County
System Delivery
1,000 Gallons

2017	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
System Delivery	2,678	2,543	2,706	3,310	3,464	2,734	2,512	2,518	2,563	3,267	3,890	3,054	35,239
Sales	1,716	1,632	1,407	1,440	1,574	1,690	1,583	1,517	1,632	1,557	1,624	1,463	18,835
System Flushing	4	5	4	4	5	5	5	5	5	4	4	4	54
Fire Department	3	0	3	0	36	8	2	9	0	0	5	0	66
Total Other Water Used	7	5	7	4	41	13	7	14	5	4	9	4	120
Tank Overflows	0	0	0	0	0	0	0	0	0	5	5	2	12
Line Breaks	0	0	5	5	5	0	0	0	0	8	10	12	45
Line Leaks	955	906	1,287	1,861	1,844	1,031	922	987	926	1,693	2,242	1,573	16,227
Total Water Loss	955	906	1,292	1,866	1,849	1,031	922	987	926	1,706	2,257	1,587	16,284
Water Loss %	35.7%	35.6%	47.7%	56.4%	53.4%	37.7%	36.7%	39.2%	36.1%	52.2%	58.0%	52.0%	46.2%

2018	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
System Delivery	4,673	2,009	0	1,229	3,328	3,170	3,169	3,138	3,022	2,882	3,398	4,005	34,024
Sales	1,535	1,447	526	1,525	2,427	1,861	2,296	1,555	1,941	1,248	1,725	716	18,802
System Flushing	7	5	0	0	0	0	0	0	0	0	0	0	12
Fire Department	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Water Used	7	5	0	0	0	0	0	0	0	0	0	0	12
Tank Overflows	2	2	0	0	0	0	0	0	0	0	0	0	4
Line Breaks	18	0	0	0	0	0	0	0	0	0	0	0	18
Line Leaks	3,111	555	-526	-296	901	1,309	873	1,583	1,081	1,634	1,673	3,289	15,188
Water Loss	3,131	557	-526	-296	901	1,309	873	1,583	1,081	1,634	1,673	3,289	15,210
Water Loss %	67.0%	27.7%	#DIV/0!	-24.0%	27.1%	41.3%	27.6%	50.4%	35.8%	56.7%	49.2%	82.1%	44.7%

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Melissa L. Schwarzell

- 93.** Please refer to paragraphs 11 and 12 of the Application.
- (a) What is the amount of the increase to the revenue requirement to KAWC customers living outside of the Southern Division resulting from the unification of rates with the former Eastern Rockcastle Water Association?
 - (b) Please explain how that increase was determined by providing workpapers.
 - (c) Please provide the total amount of the increase to each customer class, the increase in rates to each customer class, and the effect on the average bill for each customer class.

Response:

- (a) The amount of the increase in the revenue requirement to KAWC customers living outside of the Southern Division resulting from the Company's proposed rate design is \$192,855.
- (b) The increase identified in part (a) above was calculated by preparing a revenue requirement for the Eastern Rockcastle water system for the projected test year. This calculation produced a revenue requirement of \$542,404 or \$192,855 over the present rate revenues of Eastern Rockcastle. The analysis did not take into consideration at this time any benefits that over time may be realized from having the additional customer base from the acquisition of the Eastern Rockcastle system. Refer to the attached for the workpapers related to the calculation of the Eastern Rockcastle revenue requirement.
- (c) Shown below is the impact in each customer class and on the average bill:

Customer Class	Incr in Rev Req	% Impact
Residential	\$106,942.87	0.18%
Commercial	\$49,816.05	0.18%
Industrial	\$5,705.38	0.18%
Other Public Authority	\$13,125.17	0.18%
Sale for Resale	\$3,451.83	0.18%
Private Fire Service:	\$5,548.34	0.18%
Public Fire Service	\$8,153.97	0.18%
Miscellaneous	\$111.03	0.18%
	\$192,855	
Assumption: Based on an across the board change in rates from the proposed rates		

Customer Class	Average Use	Current Proposed Rates	After Adjusting for ERC Impact	Difference	% Difference
Residential	3.87	39.62	\$39.55	\$0.07	0.18%
Commercial	34	210.67	\$210.29	\$0.38	0.18%
Industrial	971	4,733.01	\$4,724.30	\$8.71	0.18%
Other Public Authority	121	745.23	\$743.86	\$1.37	0.18%
Sale for Resale	1,804	9,335.72	\$9,318.52	\$17.20	0.18%
<u>Private Fire</u>					
Private Fire Hydrant		\$80.12	\$79.97	\$0.15	0.18%
2"		\$9.16	\$9.14	\$0.02	0.18%
4"		\$36.92	\$36.85	\$0.07	0.18%
6"		\$83.04	\$82.89	\$0.15	0.18%
8"		\$147.62	\$147.35	\$0.27	0.18%
10"		\$230.72	\$230.29	\$0.43	0.18%
12"		\$332.71	\$332.10	\$0.61	0.18%
14"		\$479.07	\$478.19	\$0.88	0.18%
16"		\$590.78	\$589.69	\$1.09	0.18%
<u>Public Fire</u>					
Public Fire Hydrant		\$49.16	\$49.07	\$0.09	0.18%

Kentucky American Water
Revenue Requirement Impact
E. Rockcastle

Revenue Requirement - Total Company		\$108,383,855
E. Rockcastle Revenue Requirement		542,404
Reserved		<u>0</u>
Total Acquisitions		<u>542,404</u>
Total Rev Req Less Acquisitions		\$107,841,452
Present Rate Revenues KAWC	87,179,059	
N. Middletown Rev	461,635	
AFUDC	554,026	
AFUDC E Rockcastle	<u>(25,418)</u>	
Adjusted Present Rate Revenues		\$88,169,302
Revenue Increase KAWC		\$19,672,150
Revenue Increase Proposed		\$19,865,003
Change in Revenue Increase		(\$192,854)
KAWC Water Revenues Proposed Rates		\$104,693,429
Revenue Incr (Decr)		(\$192,854)
Percent Change		-0.18%

**Kentucky American Water
Cost of Service - Income Statement
E. Rockcastle**

Description	Present Rates	Adjustment	Proposed Rates
Revenues + AFUDC	\$349,549	\$192,855	\$542,404
Operation and Maintenance	310,608	1,763	312,371
Depreciation and Amortization	36,508		36,508
Taxes Other Than Income	38,069	386	38,454
Income Taxes	(20,333)	47,581	27,248
Operating Expenses	364,851	49,730	414,581
Utility Operating Income	(\$15,302)	\$143,125	\$127,823
Rate Base	1,549,365		1,549,365
Return on Rate Base	-0.99%		8.25%

Income Tax Calculation		
Income before Taxes/Interest	(35,636)	155,070
Interest Expense	45,861	45,861
State Taxable Income	(81,497)	109,209
KY State Tax Rate	5.00%	5.00%
State Income Taxes	(4,075)	5,460
Federal Taxable Income	(77,422)	103,749
Federal Tax Rate	21.00%	21.00%
Federal Income Taxes	(16,259)	21,787
Total Income Taxes	(20,333)	27,248

Revenue Conversion	
Rate Base	1,549,365
Rate of Return	8.25%
Required UOI	127,823
UOI at Present Rates	(15,302)
UOI Deficiency(Excess)	143,125
Revenue Conversion	134.746%
Required Revenue Change	192,855
Required Revenues	542,404

Present Rate Revenues	\$349,549
Other Revenues /AFUDC	30,093
Revenues Subject to Incr (Decr)	319,456
Revenue Adjustment	\$192,855
Percent Incr (Decr)	60.37%

	Present Rates	Proposed	Proposed Stand-Alone vs. Present	Proposed Stand-Alone vs. Proposed
E. Rockcastle				
Average RES Use	2.654	\$35.82	\$31.89	\$57.45
Bill Change Per Ptoposed			(3.93)	
Percent Change			-10.98%	
Bill Change Per Stand-Alone			21.63	25.56
Percent Change			60.37%	80.14%

Kentucky American				
Average RES Use	3.869	\$32.06	\$39.62	\$39.55
Bill Change Per Ptoposed			7.56	
Percent Change			23.58%	
Bill Change Per Stand-Alone			7.49	(0.07)
Percent Change			23.35%	-0.18%

Kentucky American Water**Case No. 2018-00358****E. Rockcastle**

Customer Class	Incr in Rev Req	% Impact
Residential	\$106,942.87	0.18%
Commercial	\$49,816.05	0.18%
Industrial	\$5,705.38	0.18%
Other Public Authority	\$13,125.17	0.18%
Sale for Resale	\$3,451.83	0.18%
Private Fire Service:	\$5,548.34	0.18%
Public Fire Service	\$8,153.97	0.18%
Miscellaneous	\$111.03	0.18%
	<u>\$192,855</u>	

Assumption: Based on an across the board change in rates from the proposed rates

Customer Class	Average Use	Current Proposed Rates	After Adjusting for ERC Impact	Difference	% Difference
Residential	3.87	39.62	\$39.55	\$0.07	0.18%
Commercial	34	210.67	\$210.29	\$0.38	0.18%
Industrial	971	4,733.01	\$4,724.30	\$8.71	0.18%
Other Public Authority	121	745.23	\$743.86	\$1.37	0.18%
Sale for Resale	1,804	9,335.72	\$9,318.52	\$17.20	0.18%
<u>Private Fire</u>					
Private Fire Hydrant		\$80.12	\$79.97	\$0.15	0.18%
2"		\$9.16	\$9.14	\$0.02	0.18%
4"		\$36.92	\$36.85	\$0.07	0.18%
6"		\$83.04	\$82.89	\$0.15	0.18%
8"		\$147.62	\$147.35	\$0.27	0.18%
10"		\$230.72	\$230.29	\$0.43	0.18%
12"		\$332.71	\$332.10	\$0.61	0.18%
14"		\$479.07	\$478.19	\$0.88	0.18%
16"		\$590.78	\$589.69	\$1.09	0.18%
<u>Public Fire</u>					
Public Fire Hydrant		\$49.16	\$49.07	\$0.09	0.18%

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2018-00358
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT'S
FIRST REQUEST FOR INFORMATION**

Witness: Kevin N. Rogers

- 94.** Explain whether KAWC provides any relief to a customer who proves that a water leak occurs on a line downstream of the meter but on a section of a line outside of the customer's control. For example, would KAWC provide relief to an apartment-complex tenant who is a customer if the leak is proven to be on a section of water line downstream of the meter but in the common area of the apartment complex.

Response:

Kentucky American has a formal policy for hidden leak adjustments, included in the current tariff P.S.C No. 6 - First Revised Sheet No. 44 (See KAW_R_LFUCGDR1_NUM047_012519_Attachment). A customer that demonstrates a hidden leak on their line impacted their usage and can provide the qualifying evidence of a completed repair is eligible for a leak adjustment subject to the guidelines of the policy. Please also refer to the Company's response to LFUCG 1-47.