



VICINITY MAP

NOTES LEGEND	
1	FROST FREE SPIGOT
2	SLIDING MECHANICAL GATE WITH KEYPAD ENTRY (VIKING 3 GATE OPERATOR) (32' WIDE)
3	4' WIDE MAN GATE FOR FIRE HYDRANT ACCESS
4	INSTALL FENCE SCREEN SLATS IN CHAIN LINK FENCE ON THESE 3 SIDES TO SCREEN EQUIPMENT
5	6' TALL CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE ATOP
6	INSTALL FENCE SCREEN SLATS IN CHAIN LINK FENCE ON THESE 2 SIDES TO SCREEN DUMPSTER
7	6' WIDE MAN GATE IN CHAIN LINK FENCE
8	PROVIDE 6 BOLLARDS
9	REMOVE & RELOCATE EXISTING STREET LIGHT TO WEST SIDE OF ENTRANCE. COORDINATE WITH NOLIN & CITY OF ETOWN
10	PROVIDE HANDICAP SIGNS AT ALL HANDICAP SPACES. NOTE VAN ACCESSIBLE PLACARD WHERE INDICATED

FLOOD HAZARD AREA NOTE:
 AS INDICATED ON THE FLOOD INSURANCE RATE MAPS (FIRM), EFFECTIVE AUGUST 16, 2007, SPECIFICALLY MAP NUMBER 21093C02830, THE PROPERTY SHOWN ON THIS PLAN IS SHOWN TO BE WITHIN ZONE X WHICH HAS BEEN DETERMINED TO BE OUTSIDE A SPECIAL FLOOD HAZARD AREA SUBJECT TO THE 100 YEAR FLOODPLAIN (1% ANNUAL CHANCE FLOOD) OR THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD). FLOOD HAZARD AREA DETERMINATION IS RESTRICTED TO A REVIEW OF THE FIRM AND SHALL NOT BE CONSTRUED AS A CONFIRMATION OR DENIAL OF FLOODING POTENTIAL OR HAZARDS.

CONSTRUCTION NOTES
 1) USE SILT AND EROSION CONTROL MEASURES TO PROTECT EXISTING AND PROPOSED STORMWATER FACILITIES, DURING AND THROUGHOUT ALL PHASES OF CONSTRUCTION
 2) ALL DIMENSIONS ARE TO FACE OF CURB LINE UNLESS NOTED OTHERWISE.

OWNER'S CERTIFICATION
 I (WE) DO HEREBY CERTIFY THAT I AM (WE ARE) THE ONLY OWNERS OF THE PROPERTY SHOWN HEREIN, DO ADOPT THIS AS MY (OUR) DEVELOPMENT FOR THE PROPERTY AND AGREE TO COMPLETE ALL SITE IMPROVEMENTS SHOWN HEREIN IN THEIR ENTIRETY PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY TO USE AND OCCUPY THE BUILDING(S) AND PROPERTY. I (WE) FURTHER ASSURE AND UNDERSTAND THAT THE BUILDING AND PREMISES, INCLUDING ALL LANDSCAPE MATERIALS SHALL BE MAINTAINED IN A PROPER MANNER.
 SCY 7-23-20
 OWNER DATE

IMPROVEMENT CERTIFICATION
 I DO HEREBY CERTIFY THAT THE APPROPRIATE UTILITY PLANS FOR THIS DEVELOPMENT HAVE BEEN REVIEWED BY THIS OFFICE AND ARE APPROVED.
 SCY 7-23-20
 HW#2 DATE
 MEB 7-29-2020
 CITY ENGINEER DATE

COMMISSION'S CERTIFICATION
 I DO HEREBY CERTIFY THAT THIS DEVELOPMENT PLAN MEETS THE REQUIREMENTS SET BY THE CITY OF ELIZABETHTOWN AND IS APPROVED.
 [Signature] 7/29/2020
 COMMISSION CHAIR OR DEPT. DIRECTOR DATE

STORMWATER DEPARTMENT CERTIFICATION
 I DO HEREBY CERTIFY THAT THE APPROPRIATE STORMWATER PLANS FOR THIS DEVELOPMENT HAVE BEEN REVIEWED BY THIS OFFICE AND ARE APPROVED.
 [Signature] 7/29/2020
 STORMWATER MANAGER DATE

Grid North Tied to the Ky. State Plane Coordinate System NAD 83 (GNSS) - Ky. South Zone Referenced to Kentucky Department of Transportation (RTN Network) Using Trimble R8 - GPS Receiver - RTK METHOD VERTICAL DATUM: NAVD 88 - GEOID G12AUS Grid to Ground CGF = 1.00006305

LANDSCAPE AREAS

AREA #	AREA SIZE SQUARE FT.	LARGE TREES 300	MEDIUM TREES 200	SMALL TREES 150	LARGE SHRUB 100	MEDIUM SHRUB 50	SMALL SHRUB 25	AREA EQUIVALENT
1	800							500
2	175	1						175
3	750	2						650
4	800							200
5	250							200
6	1500	1						300
7	600	1						200
8	700			1				1500
9	800							200
10	800							200
11	800							200
12	800							200
13	400							200
14	800							400
15	1500	5	4					1500
16	600							150
17	600			3				450
18	600							300
19	600	2						600
SUBTOTAL		15,628 SF REQ'D						7675

- LEGEND**
- SET 1/4" DIA x 18" LONG IRON PIN WITH YELLOW SURVEYORS IDENTIFYING CAP STAMPED "BILLINGS L.S. 3472"
 - FOUND IRON PIN WITH YELLOW SURVEYORS IDENTIFYING CAP STAMPED "HAWKINS L.S. 2511"
 - ⊙ FOUND IRON PIN WITH YELLOW SURVEYORS IDENTIFYING CAP STAMPED "HAWKINS L.S. 2511"
 - △ CALCULATED POINT IN RING ROAD RIGHT OF WAY (NOT MONUMENTED)
 - ⊠ BENCHMARK - 1" DIA x 18" LONG IRON PIN WITH RED CAP STAMPED "TRAVERSE POINT"
 - PROPERTY LINE
 - - - ADJOINING PROPERTY LINE
 - - - DRAINAGE & UTILITY EASEMENT (DR & UTIL ESMT)
 - - - BUILDING LINE SETBACK (B/L)
 - ⊕ EXISTING GAS VALVE
 - ⊕ EXISTING GAS METER
 - ⊕ EXISTING CITY OF ETOWN GAS LINE
 - ⊕ EXISTING FIRE HYDRANT W/ ISOLATION VALVE
 - ⊕ EXISTING WATER VALVE
 - ⊕ EXISTING WATER METER
 - ⊕ EXISTING WATER SPIGOT
 - ⊕ EXISTING HOWD #2 WATER LINE
 - ⊕ EXISTING SANITARY SEWER MANHOLE
 - ⊕ EXISTING SANITARY SEWER LINE
 - ⊕ EXISTING BRANDENBURG TELEPHONE UTILITY PEDESTAL
 - ⊕ EXISTING UNDERGROUND BRANDENBURG TELEPHONE LINE
 - ⊕ EXISTING UNDERGROUND UTILITY PEDESTAL
 - ⊕ EXISTING UNDERGROUND WINDSTREAM LINE
 - ⊕ EXISTING LIGHT POLE
 - ⊕ EXISTING UNDERGROUND UTILITY LINE
 - ⊕ EXISTING TRAFFIC LIGHT POLE
 - HEAVY DUTY PAVEMENT 10" STONE, 3" BASE, 1.5" SURFACE
 - LIGHT DUTY PAVEMENT 6" STONE, 3" BASE, 1.5" SURFACE
 - ⊕ DETAIL ON DETAIL SHEET

OWNER:
 HARDIN COUNTY WATER DISTRICT #2
 360 RING RD
 ELIZABETHTOWN KY 42701
 (270) 737-1056

ENGINEER/SURVEYOR:
 HARDIN COUNTY WATER DISTRICT #2
 DEED BOOK 1425 PAGE 608
 LOT 1A HUGHES COMMERCE CENTER SECTION 2
 PLAT CABINET 1 SHEET 6619
 PVA MAP #186-00-00-024
 CURRENT ZONE: I-2

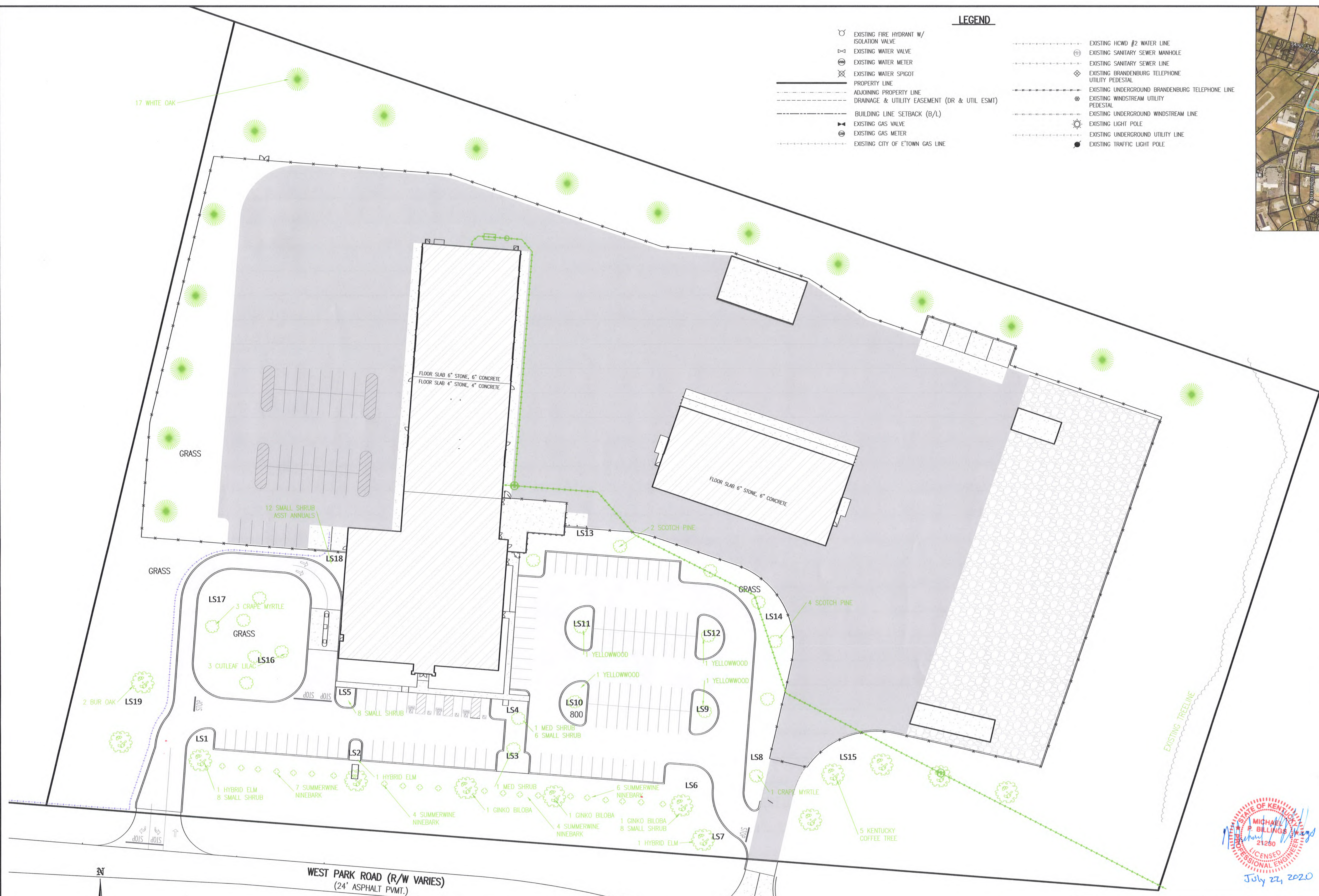
DEVELOPER:
 JENKINS-ESSEX CONSTRUCTION CO
 136 HOWELL DRIVE
 ELIZABETHTOWN KY 42701
 (270) 765-6113

Engineering Design Group EDG
 LAND SURVEYORS • SITE DESIGN • ENGINEERING

DEVELOPMENT PLAN
 OF
HARDIN COUNTY WATER DISTRICT #2
 LOT 1C
 HUGHES COMMERCE CENTER
 SECTION 2
 1951 WEST PARK ROAD
 ELIZABETHTOWN, KENTUCKY
 SHT 1 OF 12

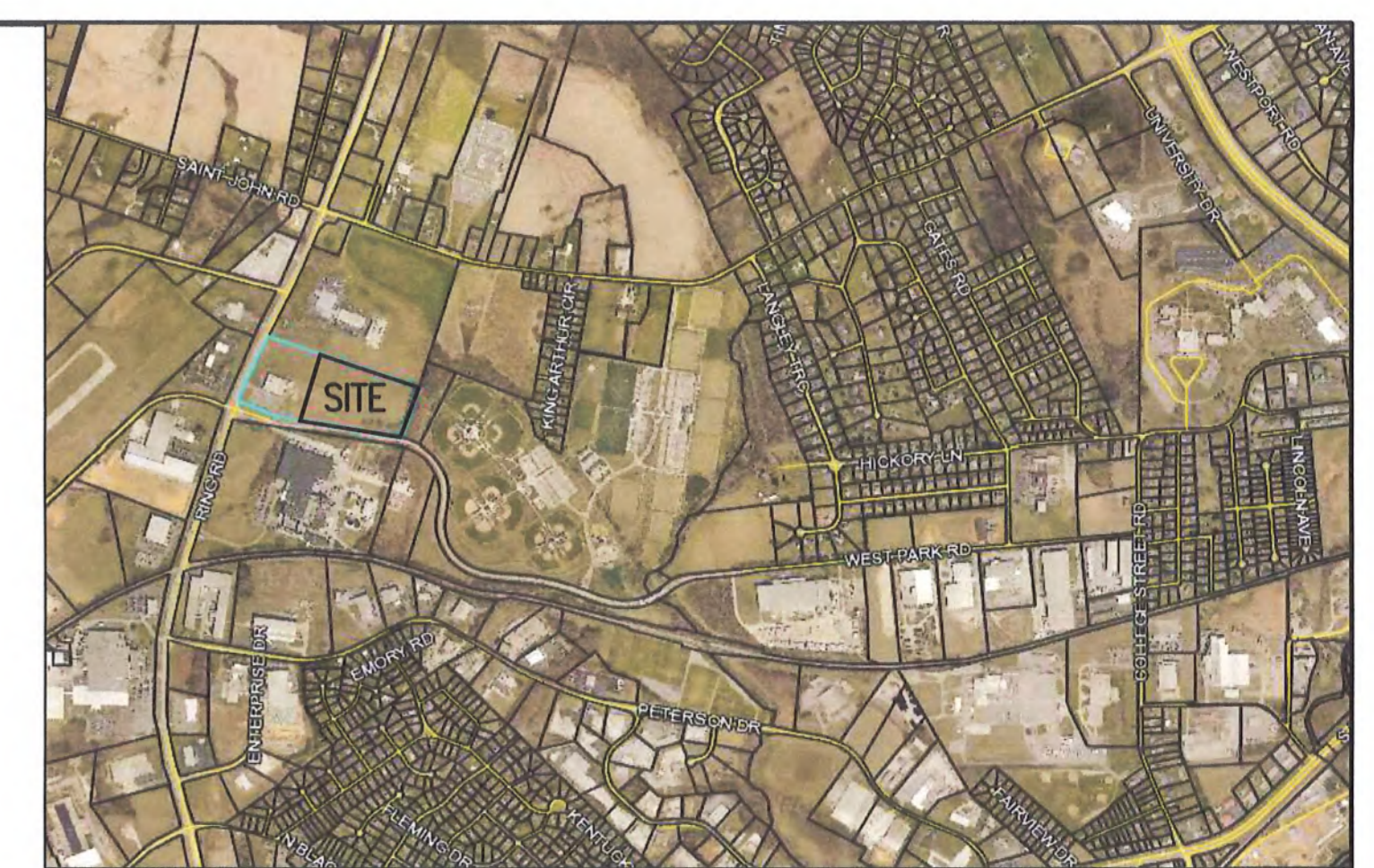
DATE: JULY 22, 2020 SCALE: 1" = 50'

1951 West Park Rd.



LEGEND

- EXISTING FIRE HYDRANT W/ ISOLATION VALVE
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING WATER METER
- ⊕ EXISTING WATER SPIGOT
- PROPERTY LINE
- - - ADJOINING PROPERTY LINE
- - - DRAINAGE & UTILITY EASEMENT (DR & UTIL ESMT)
- - - BUILDING LINE SETBACK (B/L)
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING GAS METER
- - - EXISTING CITY OF E'TOWN GAS LINE
- - - EXISTING HOWD #2 WATER LINE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- - - EXISTING SANITARY SEWER LINE
- ⊕ EXISTING BRANDENBURG TELEPHONE UTILITY PEDESTAL
- - - EXISTING UNDERGROUND BRANDENBURG TELEPHONE LINE
- ⊕ EXISTING WINDSTREAM UTILITY PEDESTAL
- - - EXISTING UNDERGROUND WINDSTREAM LINE
- ⊕ EXISTING LIGHT POLE
- - - EXISTING UNDERGROUND UTILITY LINE
- ⊕ EXISTING TRAFFIC LIGHT POLE



VICINITY MAP

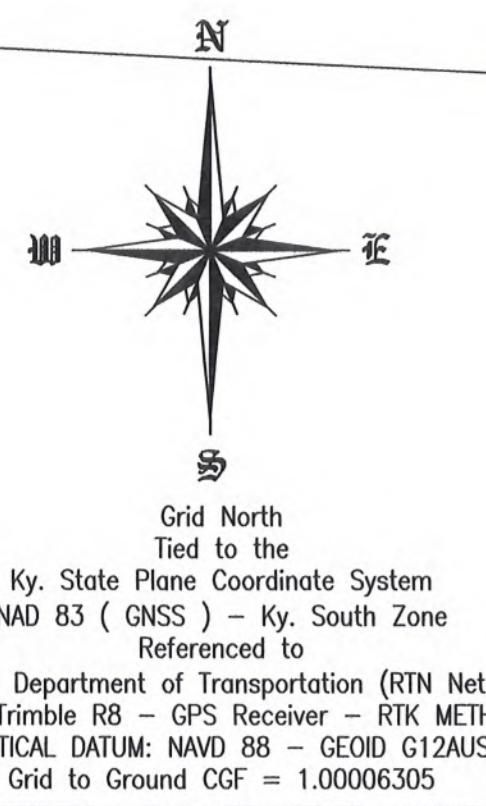
SITE SUMMARY (NOT CONSTRUCTION QUANTITIES)

1. SITE AREA: 13.067 AC 569,199 SF
2. ZONING: I-2 REGIONAL INDUSTRIAL
3. USE: PUBLIC UTILITY FACILITY
4. BUILDING COVERAGE: 49,995 SF=8.8%
5. FLOOR AREA: 49,995 SF
6. PARKING AREA: CUSTOMER/EMPLOYEE PARKING (VUA)= 56,276 SF=9.9%
OWNER FLEET/PRODUCT USE PAVED AREA=171,404 SF=30.1%
OWNER FLEET/PRODUCT USE STONE AREA=37,157 SF=37,157 SF=6.5%
CONCRETE (STOOPS, WALKS, PADS) 20,007 SF=3.5%
7. OPEN SPACE: 234,360 SF=41.2%
8. BUILDING HEIGHT: 30'± SINGLE STORY
9. LANDSCAPE CATEGORIES: 2.8.13.8
10. LANDSCAPE REQUIREMENTS: SEC 5.0 (101+ SPACES) REQUIRED VUA
LANDSCAPE AREA (56,276) /100 (10) =5628 SF PROVIDED VUA
LANDSCAPE AREA VIA TREE REQUIRED 5628/500=11 TREES
11. SIGN CATEGORY: 2.8.13.6
12. I.S.R. =0.523
13. LOT CRITERIA: 2.8.13.5
14. PERIMETER LANDSCAPE CATEGORY: D 3 LG TREE/6' SCREEN/60 LF
ACCESSIBLE
15. PARKING REQUIREMENT: 1 SPACE / EMPLOYEE
72 EMPLOYEES / 77 EMPLOYEE PARKING SPACES PROVIDED
37 CUSTOMER PARKING SPACES PROVIDED 6 OF WHICH ARE H.C.
ACCESSIBLE
39 FLEET PARKING SPACES PROVIDED
153 TOTAL PARKING SPACES PROVIDED 6 OF WHICH ARE H.C.
ACCESSIBLE

LANDSCAPE AREAS

AREA #	AREA SIZE SQUARE FT.	LARGE TREES 300	MEDIUM TREES 200	SMALL TREES 150	LARGE SHRUB 100	MEDIUM SHRUB 50	SMALL SHRUB 25	AREA EQUIVALENT
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2	175	1				1		175
3	750	2				1		650
4	800						6	200
5	250						8	200
6	1500	1					8	500
7	600	1						300
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11	800		1					200
12	800		1					200
13	400		2					400
14	800		4					800
15	1500	5	4					1500
16	600					3		150
17	600			3				450
18	600						12	300
19	600	2						600
SUBTOTAL								7675

- PLANT LIST**
- 17 WHITE OAK
 - 3 CUTLEAF LILAC (MED SHRUB)
 - 3 HYBRID ELM (LG TREE)
 - 3 GINKGO BILOBA (LG TREE)
 - 5 KENTUCKY COFFEE (LG TREE)
 - 4 CRAPE MYRTLE (SM TREE)
 - 6 SCOTCH PINE (MED TREE)
 - 4 YELLOWWOOD (MED TREE)
 - 2 BUR OAK (LG TREE)
 - 2 (MED SHRUB)
 - 42 (SMALL SHRUB)
 - 21 SUMMERWINE NINEBARK (PERIMETER HEDGE)



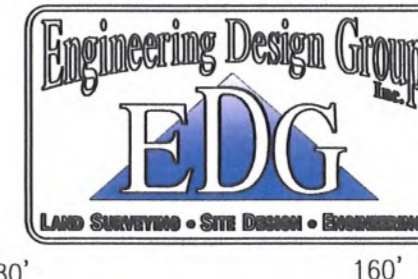
WEST PARK ROAD (R/W VARIES)
(24' ASPHALT PVMT.)

SOURCE OF TITLE:
HARDIN COUNTY WATER DISTRICT #2
DEED BOOK 1425 PAGE 608
LOT 1A HUGHES COMMERCE CENTER SECTION 2
PLAT CABINET 1 SHEET 6619
PVA MAP #186-00-00-024
CURRENT ZONE: I-2

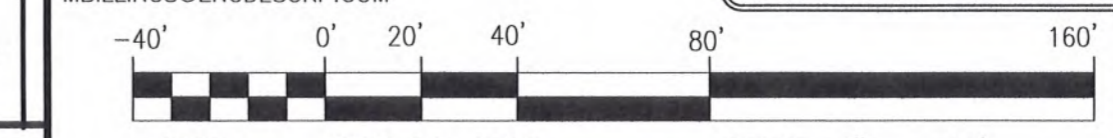
OWNER:
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ELIZABETHTOWN, KY. 42702-2484
(270) 769-1436 (270)765-9908 FAX
MBILLINGS@ENGDESGRP.COM



CAUTION !!!
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LANDSCAPE PLAN
OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY

HUGHES COMMERCE CENTER
SECTION 2
LOT 1B
ZONE: I-1

FOR INFORMATION PURPOSES ONLY
LIMITS OF PROPOSED SITE GRADING

FFE: 736.00

FLOOR SLAB 6" STONE, 6" CONCRETE
FLOOR SLAB 4" STONE, 4" CONCRETE

FFE: 736.00

PROPOSED MAINTENANCE BUILDING
FLOOR SLAB 6" STONE, 6" CONCRETE
FFE: 734.0

PROPOSED MUNICIPAL BUILDING WITH OFFICES
FFE: 736.0

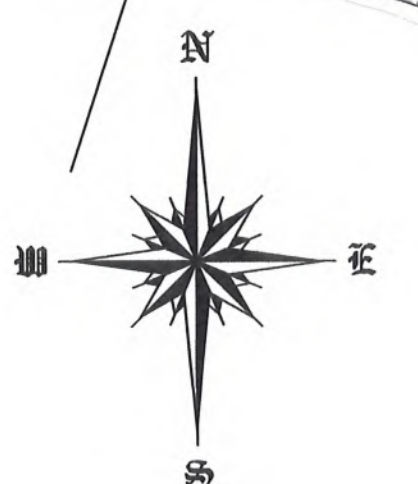
FLINT INK NORTH AMERICA CORP. PROPERTY
(DB 919 PG 550)
LOT 2
FLINT INK SUBDIVISION
(PC 1 SHT 4829)
PVA MAP #186-00-00-025.02
ZONE: I-1

TOP ELEV. - 735.82
INV. ELEV. - 722.92

TOP ELEV. - 715.0
INV. ELEV. - 706.7

WEST PARK ROAD (R/W VARIES)
(24' ASPHALT PVMT.)

FLINT INK NORTH AMERICA CORP. PROPERTY
(DB 919 PG 550)
PVA MAP #186-00-00-025



Grid North
Tied to the
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NAD 83 (GNSS) - Ky. South Zone
Referenced to
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VERTICAL DATUM: NAVD 88 - GEOID G12AUS
Grid to Ground CGF = 1.00006305

LEGEND

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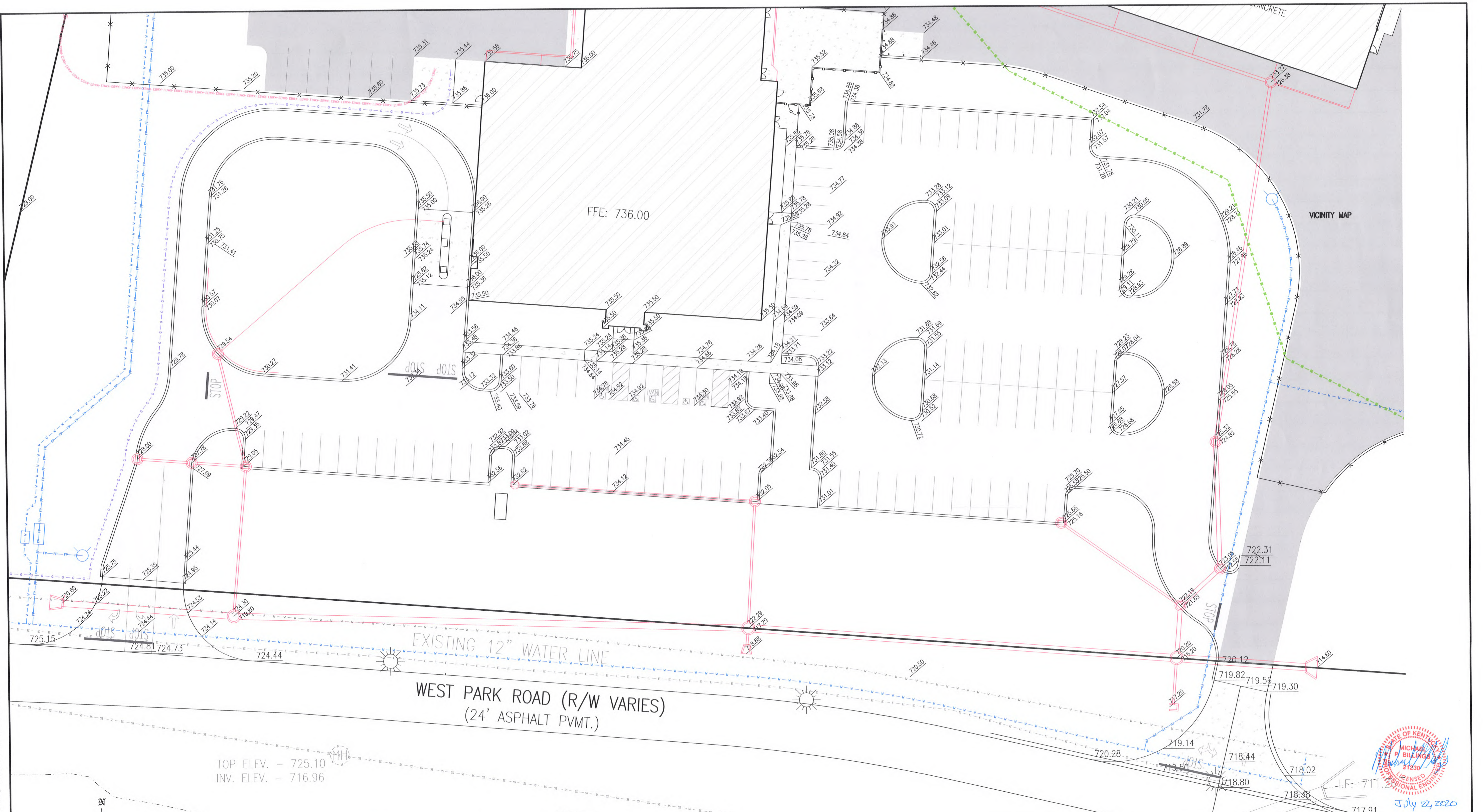


DATE: JULY 21, 2020 SCALE: 1" = 40'

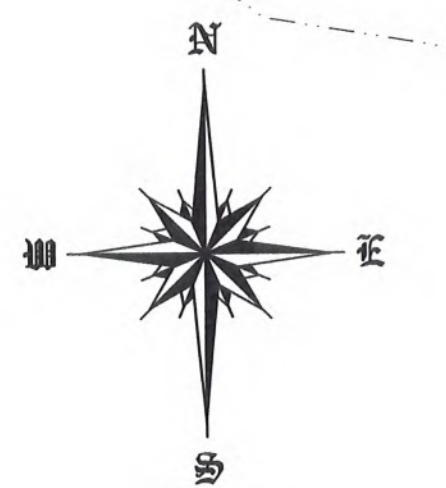
GRADING PLAN
OF
HARDIN COUNTY WATER DISTRICT #2

LOT 1C
HUGHES COMMERCE CENTER
SECTION 2

1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY SHT 3 OF 12



TOP ELEV. - 725.10
 INV. ELEV. - 716.96



Grid North
 Tied to the
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 Referenced to
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LEGEND

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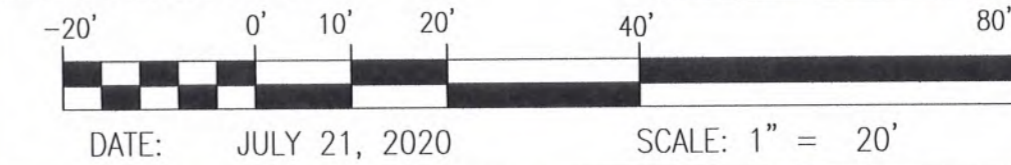
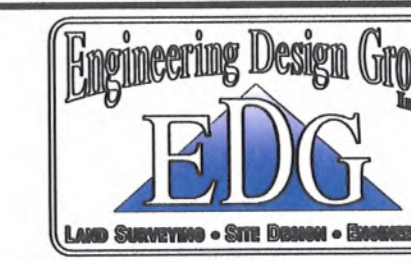
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GRADING PLAN DETAIL
 OF
HARDIN COUNTY WATER DISTRICT #2
 LOT 1C
 HUGHES COMMERCE CENTER
 SECTION 2
 1951 WEST PARK ROAD
 ELIZABETHTOWN, KENTUCKY

STORM SEWER SCHEDULE

HCWD#2 New Location

Pipe #	Type	Dia (in)	Slope (ft/ft)	Length (ft)	Inlet EI	Outlet EI	(CFS)	Full Q (CFS)	Vel (FPS)	Depth (ft)	Depth Ratio	HW/D
1	PVC-SDR35	6	0.0100	39.00	733.05	732.66	0.49	0.65	3.44	0.34	0.69	1.10
2	PVC-SDR35	8	0.0100	41.00	733.50	733.09	0.78	1.40	3.90	0.37	0.56	0.87
3	PVC-SDR35	12	0.0100	43.00	733.09	732.66	2.71	4.15	5.32	0.62	0.62	1.09
4	PVC-SDR35	12	0.0441	93.00	732.66	728.56	3.19	8.70	9.69	0.44	0.44	1.28
5	CPP	15	0.0100	143.00	728.56	727.13	5.13	7.52	6.22	0.80	0.64	1.18
6	PVC-SDR35	6	0.0100	59.00	733.50	732.91	0.38	0.65	3.26	0.29	0.58	0.85
7	PVC-SDR35	6	0.0100	58.00	733.49	732.91	0.53	0.65	3.48	0.37	0.73	1.20
8	PVC-SDR35	8	0.0622	93.00	732.91	727.13	0.91	3.50	7.99	0.24	0.36	1.00
9	CPP	24	0.0100	180.00	727.13	725.33	12.07	26.39	7.77	0.99	0.50	0.86
10	PVC-SDR35	8	0.0100	113.00	733.21	732.08	0.62	1.40	3.70	0.33	0.49	0.69
11	PVC-SDR35	8	0.0100	142.00	733.50	732.08	0.91	1.40	4.04	0.41	0.62	1.00
12	PVC-SDR35	12	0.0478	78.00	732.08	728.35	1.53	9.07	8.14	0.29	0.29	0.61
13	PVC-SDR35	8	0.0100	170.00	731.50	729.80	1.08	1.40	4.18	0.46	0.69	1.20
14	PVC-SDR35	8	0.0246	59.00	729.80	728.35	1.08	2.20	5.95	0.35	0.52	1.20
15	CPP	18	0.0100	73.00	728.35	727.62	5.21	12.24	6.29	0.71	0.48	0.76
16	CPP	18	0.0100	123.00	727.62	726.39	5.88	12.24	6.49	0.77	0.51	0.85
17	PVC-SDR35	6	0.0132	38.00	731.50	731.00	0.22	0.75	3.15	0.20	0.39	0.50
18	CPP	18	0.0326	171.00	726.39	720.82	6.10	22.09	10.12	0.58	0.37	0.89
19	CPP	24	0.0398	57.00	720.82	718.55	9.32	52.66	11.98	0.59	0.30	0.66
20	CPP	24	0.0391	22.00	718.55	717.69	9.58	52.17	12.00	0.60	0.30	0.68
21	CPP	12	0.0526	66.00	721.16	717.69	1.71	9.51	8.70	0.30	0.30	0.68
22	CPP	24	0.0329	21.00	717.69	717.00	12.72	47.83	12.20	0.73	0.37	0.90
23	CPP	12	0.0100	20.00	717.20	717.00	0.91	4.15	4.00	0.33	0.33	0.36
24	CPP	12	0.0381	52.00	725.54	723.56	0.78	8.09	6.17	0.22	0.22	0.31
25	CPP	12	0.0100	22.00	724.00	723.78	0.30	4.15	0.00	0.00	0.00	0.12
26	CPP	12	0.0100	22.00	723.78	723.56	0.47	4.15	3.31	0.24	0.24	0.19
27	CPP	12	0.0406	68.00	723.56	720.80	2.70	8.35	8.99	0.41	0.41	1.08
28	RCP	36	0.0100	80.00	720.60	719.80	33.10	77.86	10.01	1.42	0.47	0.85
29	CPP	36	0.0104	242.00	719.80	717.29	36.72	79.34	10.42	1.50	0.50	0.94
30	CPP	18	0.0150	6.00	718.88	718.79	5.14	14.99	7.28	0.63	0.42	0.75
31	CPP	12	0.0100	111.00	728.62	727.51	0.38	4.15	3.12	0.21	0.21	0.15
32	CPP	12	0.1530	57.00	727.51	718.79	1.21	16.22	11.49	0.19	0.19	0.48
33	CPP	42	0.0104	201.00	717.29	715.20	42.77	119.88	10.81	1.50	0.43	0.75
34	RCP	42	0.0100	60.00	715.20	714.60	54.48	117.44	11.35	1.75	0.50	0.95
35	CPP	12	0.0100	50.00	711.50	711.00	4.15	4.15	5.41	0.94	0.94	1.66

STORM SEWER STRUCTURE SCHEDULE

HCWD#2 Compound

Structure ID	Description	Frame & Grate ID	Box Type *	Invert Elevation	Top Frame Elevation
1	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	728.56	732.56
2	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	727.13	732.44
3	S&F Headwall w/ Energy Dissipators	N/A	Dwg# ET-230 (24" CPP)	725.33	N/A
4	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	728.35	732.35
5	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	726.38	733.27
Downspout & Pipe 17					
Pipe 16 & Pipe 18					
6	Curb Box Inlet	Neenah R-2560-E	4' Dia Manhole (Dwg# RS-492)	720.82	724.82
7	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	718.55	722.55
8	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	717.69	721.69
9	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	721.16	725.16
10	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	717.00	720.20
Structure Invert					
11	U-Shaped Headwall	N/A	Dwg# ET-240 (12" CPP)	717.20	N/A
12	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	725.54	729.54
13	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	723.56	729.05
14	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	724.00	728.00
15	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	723.78	727.78
16	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	719.80	724.30
Pipe 27					
17	S&F Headwall	N/A	Dwg# ET-238 (36" RCP)	720.80	N/A
18	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	717.29	722.29
Pipe 30 & Pipe 32					
19	S&F Headwall	N/A	Dwg # ET-236 (18" CPP)	718.88	N/A
20	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	728.62	732.62
21	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	727.51	732.05
22	S&F Headwall w/ Energy Dissipators	N/A	Dwg# ET-232 (42" RCP)	714.60	N/A
23	S&F Headwall	N/A	Dwg # ET-236 (12" CPP)	711.50	N/A
24	S&F Headwall w/ Energy Dissipators	N/A	Dwg # ET-230 (12" CPP)	711.00	N/A

* Indicates Forterra Concrete Products Drawing Number or Approved Equal

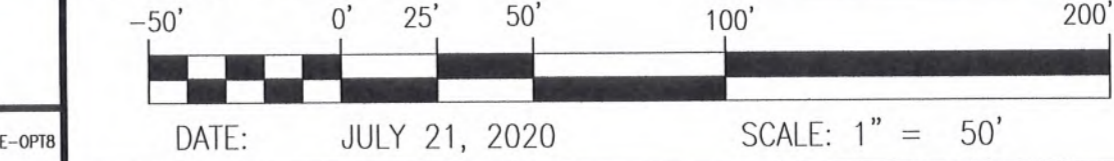
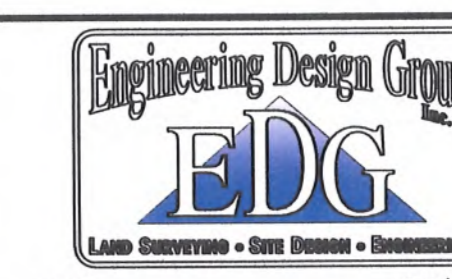
SOURCE OF TITLE:
HARDIN COUNTY WATER DISTRICT #2
DEED BOOK 1425 PAGE 608
LOT 1A HUGHES COMMERCE CENTER SECTION 2
PLAT CABINET 1 SHEET 6619
PVA MAP #186-00-00-024
CURRENT ZONE: F-2

CAUTION !!!
PRIOR TO ANY EXCAVATION CONTACT
811 CALL BEFORE U DIG!!!

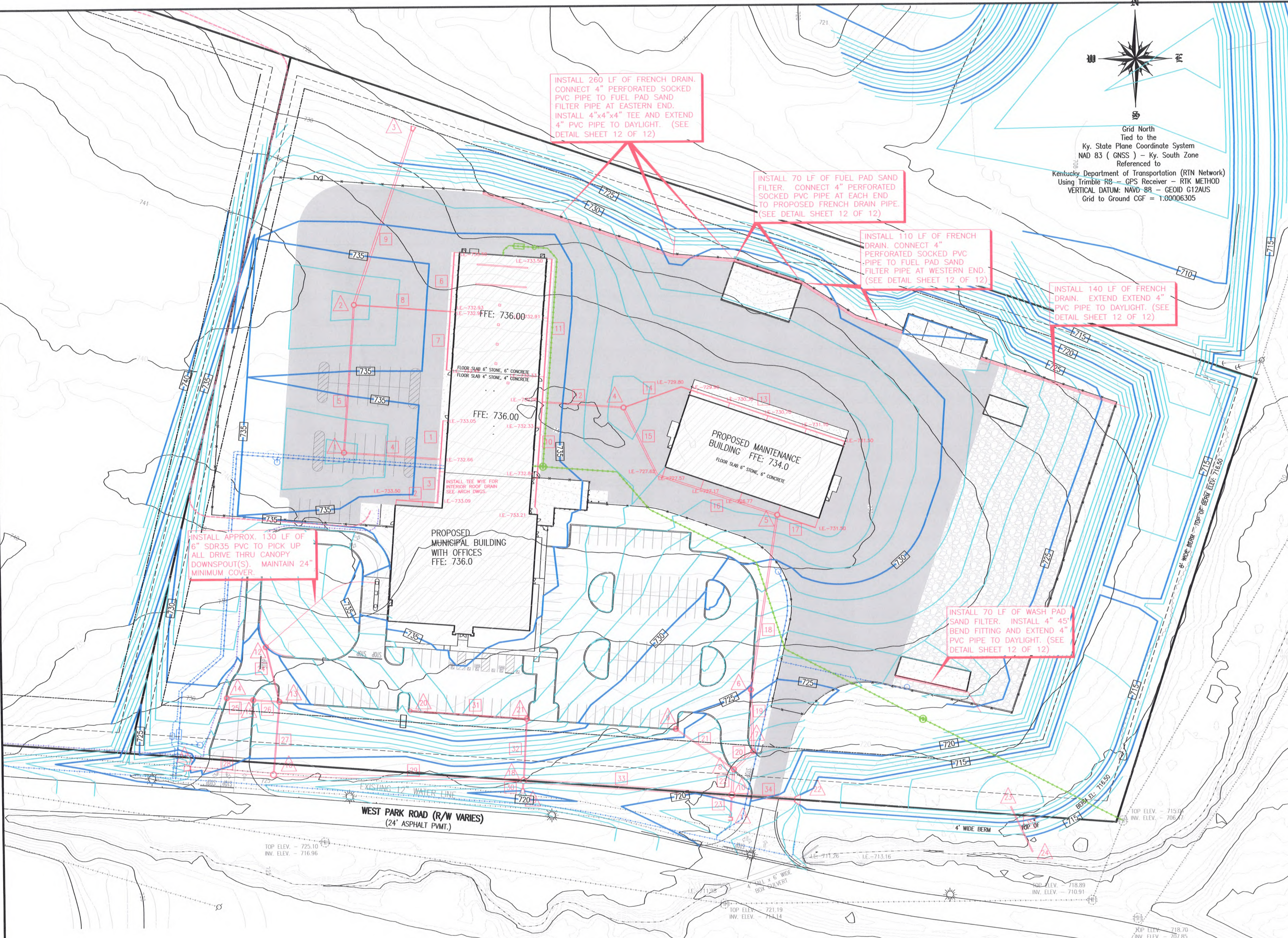
OWNER:
HARDIN COUNTY WATER DISTRICT #2
360 RING RD
ELIZABETHTOWN KY 42701
(270) 737-1056

DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270)765-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY. 42702-2484
(270) 769-1436 (270)765-9908 FAX
MBILLINGS@ENGDESGRP.COM



DRAINAGE PLAN
OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY
SHT 5 OF 12



INSTALL 260 LF OF FRENCH DRAIN. CONNECT 4" PERFORATED SOCKED PVC PIPE TO FUEL PAD SAND FILTER PIPE AT EASTERN END. INSTALL 4"x4"x4" TEE AND EXTEND 4" PVC PIPE TO DAYLIGHT. (SEE DETAIL SHEET 12 OF 12)

INSTALL 70 LF OF FUEL PAD SAND FILTER. CONNECT 4" PERFORATED SOCKED PVC PIPE AT EACH END TO PROPOSED FRENCH DRAIN PIPE. (SEE DETAIL SHEET 12 OF 12)

INSTALL 110 LF OF FRENCH DRAIN. CONNECT 4" PERFORATED SOCKED PVC PIPE TO FUEL PAD SAND FILTER PIPE AT WESTERN END. (SEE DETAIL SHEET 12 OF 12)

INSTALL 140 LF OF FRENCH DRAIN. EXTEND 4" PVC PIPE TO DAYLIGHT. (SEE DETAIL SHEET 12 OF 12)

INSTALL 70 LF OF WASH PAD SAND FILTER. INSTALL 4" 45° BEND FITTING AND EXTEND 4" PVC PIPE TO DAYLIGHT. (SEE DETAIL SHEET 12 OF 12)

INSTALL APPROX. 130 LF OF 6" SDR35 PVC TO PICK UP ALL DRIVE THRU CANOPY DOWNSPOUT(S). MAINTAIN 24" MINIMUM COVER.

PROPOSED MUNICIPAL BUILDING WITH OFFICES
FFE: 736.0

PROPOSED MAINTENANCE BUILDING
FLOOR SLAB 6" STONE, 6" CONCRETE
FFE: 734.0

WEST PARK ROAD (R/W VARIES)
(24" ASPHALT PAVT.)

LEGEND

- ▲ PROPOSED STRUCTURE NUMBER CORRESPONDING TO CHART
- PROPOSED STORM PIPE NUMBER CORRESPONDING TO CHART
- EXISTING FIRE HYDRANT W/ ISOLATION VALVE
- ⊕ EXISTING WATER VALVE
- ⊗ EXISTING WATER METER
- ⊘ EXISTING WATER SPIGOT
- ⊕ EXISTING GAS VALVE
- ⊗ EXISTING GAS METER
- EXISTING CITY OF E-TOWN GAS LINE
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- DRAINAGE & UTILITY EASEMENT (DR & UTIL ESMT)
- BUILDING LINE SETBACK (B/L)
- EXISTING HCWD #2 WATER LINE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING BRANDENBURG TELEPHONE UTILITY PEDESTAL
- EXISTING UNDERGROUND BRANDENBURG TELEPHONE LINE
- EXISTING UNDERGROUND UTILITY PEDESTAL
- EXISTING UNDERGROUND WINDSTREAM LINE
- EXISTING LIGHT POLE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING TRAFFIC LIGHT POLE

FLOOD HAZARD AREA NOTE

AS INDICATED ON THE FLOOD INSURANCE RATE MAPS (FIRM), EFFECTIVE AUGUST 16, 2007, SPECIFICALLY MAP NUMBER 21093C0283D, THE PROPERTY SHOWN ON THIS PLAT IS SHOWN TO BE WITHIN ZONE X WHICH HAS BEEN DETERMINED TO BE OUTSIDE A SPECIAL FLOOD HAZARD AREA SUBJECT TO THE 100 YEAR FLOODPLAIN (1% ANNUAL CHANCE FLOOD) OR THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD). FLOOD HAZARD AREA DETERMINATION IS RESTRICTED TO A REVIEW OF THE FIRM AND SHALL NOT BE CONSTRUED AS A CONFIRMATION OR DENIAL OF FLOODING POTENTIAL OR HAZARDS.

CONSTRUCTION NOTES

- 1) USE SILT AND EROSION CONTROL MEASURES TO PROTECT EXISTING AND PROPOSED STORMWATER FACILITIES, DURING AND THROUGHOUT ALL PHASES OF CONSTRUCTION
- 2) ALL DIMENSIONS ARE TO FACE OF CURB LINE UNLESS NOTED OTHERWISE.



DRAINAGE SWALE SCHEDULE
HCWD#2 COMPOUND

Swale #	Type	Top Width		Horizontal Slope		Length (ft)	Inlet El	Outlet El	Design Q 100-Year (CFS)	Design Q 100-Year Vel (FPS)	Design Q 100-Year Depth (ft)	Full Depth (ft)	Full Q (CFS)
		(ft)	(ft)	(ft/ft)	(ft/ft)								
1	Sod	3.12	4	5	0.0200	100.00	735.00	733.00	0.72	1.89	0.29	0.39	1.58
2	Sod	4.82	4	9	0.0417	63.00	733.00	730.37	1.26	2.64	0.27	0.37	2.91
3	Sod	7.07	5	4	0.0200	350.00	735.00	728.00	7.12	3.37	0.69	0.79	10.24
4	Sod	6.67	5	4	0.0387	140.73	728.00	722.55	8.30	4.49	0.64	0.74	12.22
5	Sod	11.53	4	8	0.0347	157.00	728.00	722.55	23.13	5.21	0.86	0.96	31.02
6	Sod	10.00	4	4	0.0347	57.00	722.55	720.57	33.10	6.26	1.15	1.25	41.35
7	Sod	5.44	4	4	0.0200	250.00	724.00	719.00	4.05	3.00	0.58	0.68	6.19
8	Sod	3.64	4	4	0.0200	75.00	720.50	719.00	1.09	2.16	0.36	0.46	2.11
9	Sod	8.10	10	10	0.0264	125.00	720.50	717.20	2.13	2.28	0.31	0.41	4.53

* Limit of required sod placement in swale



Grid North
Tied to the
Ky. State Plane Coordinate System
NAD 83 (GNSS) - Ky. South Zone
Referenced to
Kentucky Department of Transportation (RTN Network)
Using Trimble R8 - GPS Receiver - RTK METHOD
VERTICAL DATUM: NAVD 88 - GEOID G12AUS
Grid to Ground CGF = 1.00006305

STORM SEWER SCHEDULE

HCWD#2 New Location

Pipe #	Type	Dia (in)	Slope (ft/ft)	Length (ft)	Inlet El	Outlet El	Design Q 100-Year (CFS)		Vel (FPS)	Depth (ft)	Depth Ratio	HW/D
							Full Q	Full Q				
1	PVC-SDR35	6	0.0100	39.00	733.05	732.66	0.49	0.65	3.44	0.34	0.60	1.10
2	PVC-SDR 35	8	0.0100	41.00	733.50	733.09	0.78	1.40	3.90	0.37	0.56	0.87
3	PVC-SDR35	12	0.0100	43.00	733.09	732.66	2.71	4.15	5.32	0.62	0.82	1.09
4	PVC-SDR35	12	0.0441	93.00	732.66	728.56	3.19	8.70	9.69	0.44	0.44	1.28
5	CPP	15	0.0100	143.00	728.56	727.13	5.13	7.52	6.22	0.80	0.64	1.18
6	PVC-SDR35	6	0.0100	59.00	733.50	732.91	0.38	0.65	3.26	0.29	0.58	0.85
7	PVC-SDR35	6	0.0100	58.00	733.49	732.91	0.53	0.65	3.48	0.37	0.73	1.20
8	PVC-SDR35	8	0.0622	93.00	732.91	727.13	0.91	3.50	7.99	0.24	0.36	1.00
9	CPP	24	0.0100	180.00	727.13	725.33	12.07	26.39	7.77	0.99	0.50	0.86
10	PVC-SDR35	8	0.0100	113.00	733.21	732.08	0.62	1.40	3.70	0.33	0.49	0.69
11	PVC-SDR35	8	0.0100	142.00	733.50	732.08	0.91	1.40	4.04	0.41	0.62	1.00
12	PVC-SDR35	12	0.0478	78.00	732.08	728.35	1.53	9.07	8.14	0.29	0.29	0.61
13	PVC-SDR35	8	0.0100	170.00	731.50	729.80	1.08	1.40	4.18	0.46	0.69	1.20
14	PVC-SDR35	8	0.0246	59.00	729.80	728.35	1.08	2.20	5.95	0.35	0.52	1.20
15	CPP	18	0.0100	73.00	728.35	727.62	5.21	12.24	6.29	0.71	0.48	0.76
16	CPP	18	0.0100	123.00	727.62	726.39	5.88	12.24	6.49	0.77	0.51	0.85
17	PVC-SDR35	6	0.0132	38.00	731.50	731.00	0.22	0.75	3.15	0.20	0.39	0.50
18	CPP	18	0.0326	171.00	726.39	720.82	6.10	22.09	10.12	0.56	0.37	0.69
19	CPP	24	0.0398	57.00	720.82	718.55	9.32	52.66	11.98	0.59	0.30	0.66
20	CPP	24	0.0391	22.00	718.55	717.69	9.58	52.17	12.00	0.60	0.30	0.68
21	CPP	12	0.0526	66.00	721.16	717.69	1.71	9.51	8.70	0.30	0.30	0.68
22	CPP	24	0.0329	21.00	717.69	717.00	12.72	47.83	12.20	0.73	0.37	0.90
23	CPP	12	0.0100	20.00	717.20	717.00	0.91	4.15	4.00	0.33	0.33	0.36
24	CPP	12	0.0381	52.00	725.54	723.56	0.78	8.09	6.17	0.22	0.22	0.31
25	CPP	12	0.0100	22.00	724.00	723.78	0.30	4.15	0.00	0.00	0.00	0.12
26	CPP	12	0.0100	22.00	723.78	723.56	0.47	4.15	3.31	0.24	0.24	0.19
27	CPP	12	0.0406	68.00	723.56	720.80	2.70	8.35	8.99	0.41	0.41	1.08
28	RCP	36	0.0100	80.00	720.60	719.80	33.10	77.86	10.01	1.42	0.47	0.85
29	CPP	36	0.0104	242.00	719.80	717.29	36.72	79.34	10.42	1.50	0.50	0.94
30	CPP	18	0.0150	6.00	718.88	718.79	5.14	14.99	7.28	0.63	0.42	0.75
31	CPP	12	0.0100	111.00	728.62	727.51	0.38	4.15	3.12	0.21	0.21	0.15
32	CPP	12	0.1530	57.00	727.51	718.79	1.21	16.22	11.49	0.19	0.19	0.48
33	CPP	42	0.0104	201.00	717.29	715.20	42.77	119.88	10.81	1.50	0.43	0.75
34	RCP	42	0.0100	60.00	715.20	714.60	54.48	117.44	11.35	1.75	0.50	0.95
35	CPP	12	0.0100	50.00	711.50	711.00	4.15	4.15	5.41	0.94	0.84	1.66

STORM SEWER STRUCTURE SCHEDULE

HCWD#2 Compound

Structure ID	Description	Frame & Grate ID	Box Type *	Invert Elevation	Top Frame Elevation
1	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	728.56	732.56
2	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	727.13	732.44
3	S&F Headwall w/ Energy Dissipators	N/A	Dwg# ET-230 (24" CPP)	725.33	N/A
4	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	728.35	732.35
5	Drop Box Inlet	Neenah R-2501-G	4' Dia Manhole (Dwg# RS-492)	726.38	733.27
Downspout & Pipe 17					
Pipe 16 & Pipe 18					
6	Curb Box Inlet	Neenah R-2560-E	4' Dia Manhole (Dwg# RS-492)	720.82	724.82
7	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	718.55	722.55
8	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	717.69	721.69
9	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	721.16	725.16
10	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	717.00	720.20
Structure Invert					
11	U-Shaped Headwall	N/A	Dwg# ET-240 (12" CPP)	717.20	N/A
12	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	725.54	729.54
13	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	723.56	729.05
14	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	724.00	728.00
15	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	723.78	727.78
16	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	719.80	724.30
Pipe 27					
17	S&F Headwall	N/A	Dwg# ET-238 (36" RCP)	720.80	N/A
18	Drop Box Inlet	Neenah R-2501-G	5' Dia Manhole (Dwg# RS-416)	717.29	722.29
Pipe 30 & Pipe 32					
19	S&F Headwall	N/A	Dwg # ET-236 (18" CPP)	718.88	N/A
20	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	728.62	732.62
21	Curb Box Inlet	Neenah R-3246-C	4' Dia Manhole (Dwg# RS-492)	727.51	732.05
S&F Headwall w/ Energy Dissipators					
22	S&F Headwall	N/A	Dwg# ET-232 (42" RCP)	714.60	N/A
23	S&F Headwall	N/A	Dwg # ET-236 (12" CPP)	711.50	N/A
24	S&F Headwall w/ Energy Dissipators	N/A	Dwg # ET-230 (12" CPP)	711.00	N/A

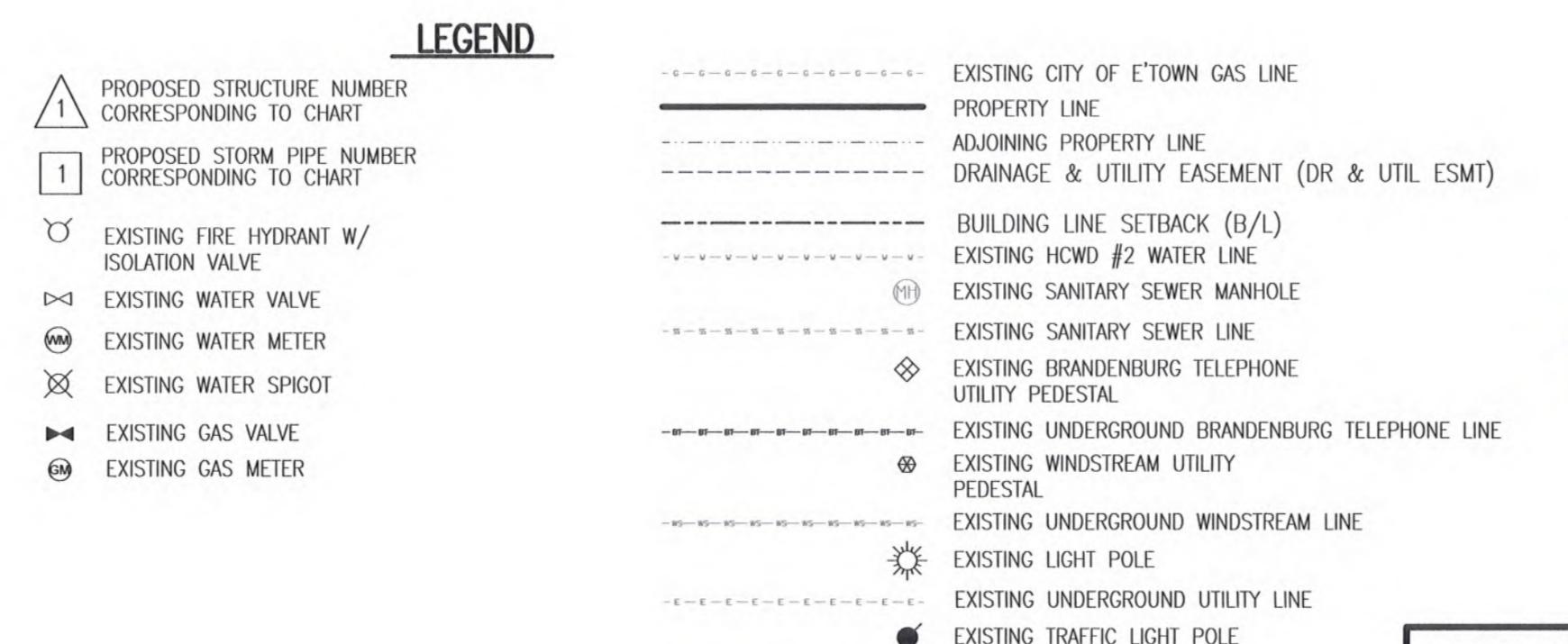
* Indicates Forterra Concrete Products Drawing Number or Approved Equal

SOURCE OF TITLE:
HARDIN COUNTY WATER DISTRICT #2
DEED BOOK 1425 PAGE 608
LOT 1A HUGHES COMMERCE CENTER SECTION 2
PLAT CABINET 11 SHEET 6019
PVA MAP #186-00-024
CURRENT ZONE: 1-2

CAUTION !!!
PRIOR TO ANY EXCAVATION CONTACT
#811* CALL BEFORE U DIG!!!

FLOOD HAZARD AREA NOTE
AS INDICATED ON THE FLOOD INSURANCE RATE MAPS (FIRM), EFFECTIVE AUGUST 16, 2007, SPECIFICALLY MAP NUMBER 21093C0283D, THE PROPERTY SHOWN ON THIS PLAT IS SHOWN TO BE WITHIN ZONE X WHICH HAS BEEN DETERMINED TO BE OUTSIDE A SPECIAL FLOOD HAZARD AREA SUBJECT TO THE 100 YEAR FLOODPLAIN (1% ANNUAL CHANCE FLOOD) OR THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD). FLOOD HAZARD AREA DETERMINATION IS RESTRICTED TO A REVIEW OF THE FIRM AND SHALL NOT BE CONSTRUED AS A CONFIRMATION OR DENIAL OF FLOODING POTENTIAL OR HAZARDS.

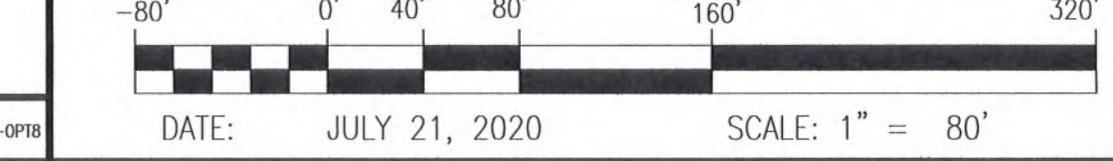
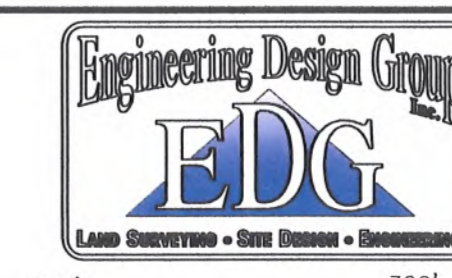
CONSTRUCTION NOTES
1) USE SILT AND EROSION CONTROL MEASURES TO PROTECT EXISTING AND PROPOSED STORMWATER FACILITIES, DURING AND THROUGHOUT ALL PHASES OF CONSTRUCTION
2) ALL DIMENSIONS ARE TO FACE OF CURB LINE UNLESS NOTED OTHERWISE.



OWNER:
HARDIN COUNTY WATER DISTRICT #2
360 RING RD
ELIZABETHTOWN KY 42701
(270) 737-1056

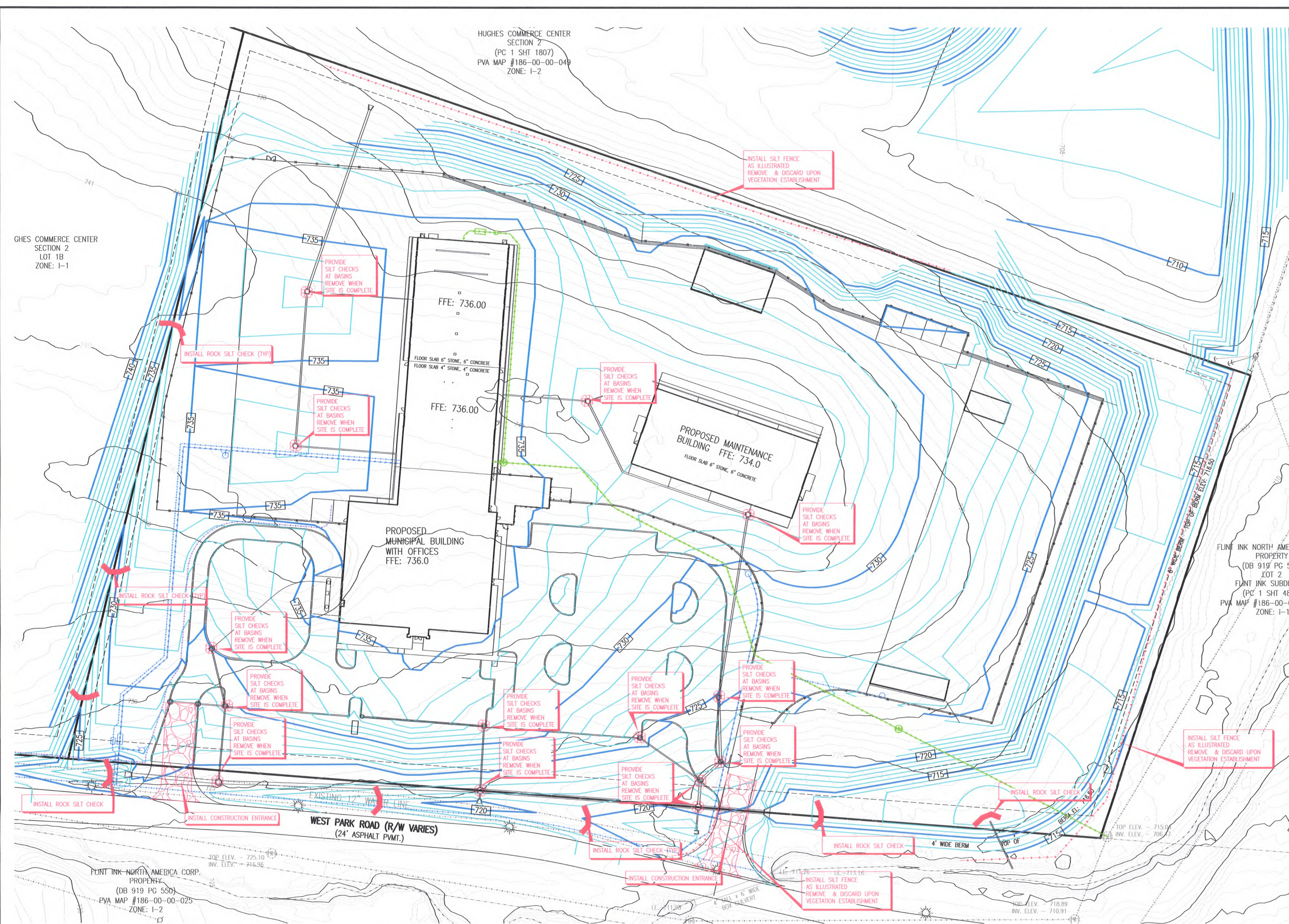
DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270)765-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY. 42702-2484
(270) 769-1436 (270)765-9908 FAX
MBILLINGS@ENGDESGRP.COM



DATE: JULY 21, 2020 SCALE: 1" = 80'

DRAINAGE AREA MAP
OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY
SHT 6 OF 12



HUGHES COMMERCE CENTER
SECTION 2
(PC 1 SHT 1807)
PVA MAP #186-00-00-049
ZONE: 1-2

HUGHES COMMERCE CENTER
SECTION 2
LOT 1B
ZONE: 1-1

PROPOSED MUNICIPAL BUILDING WITH OFFICES
FFE: 736.0

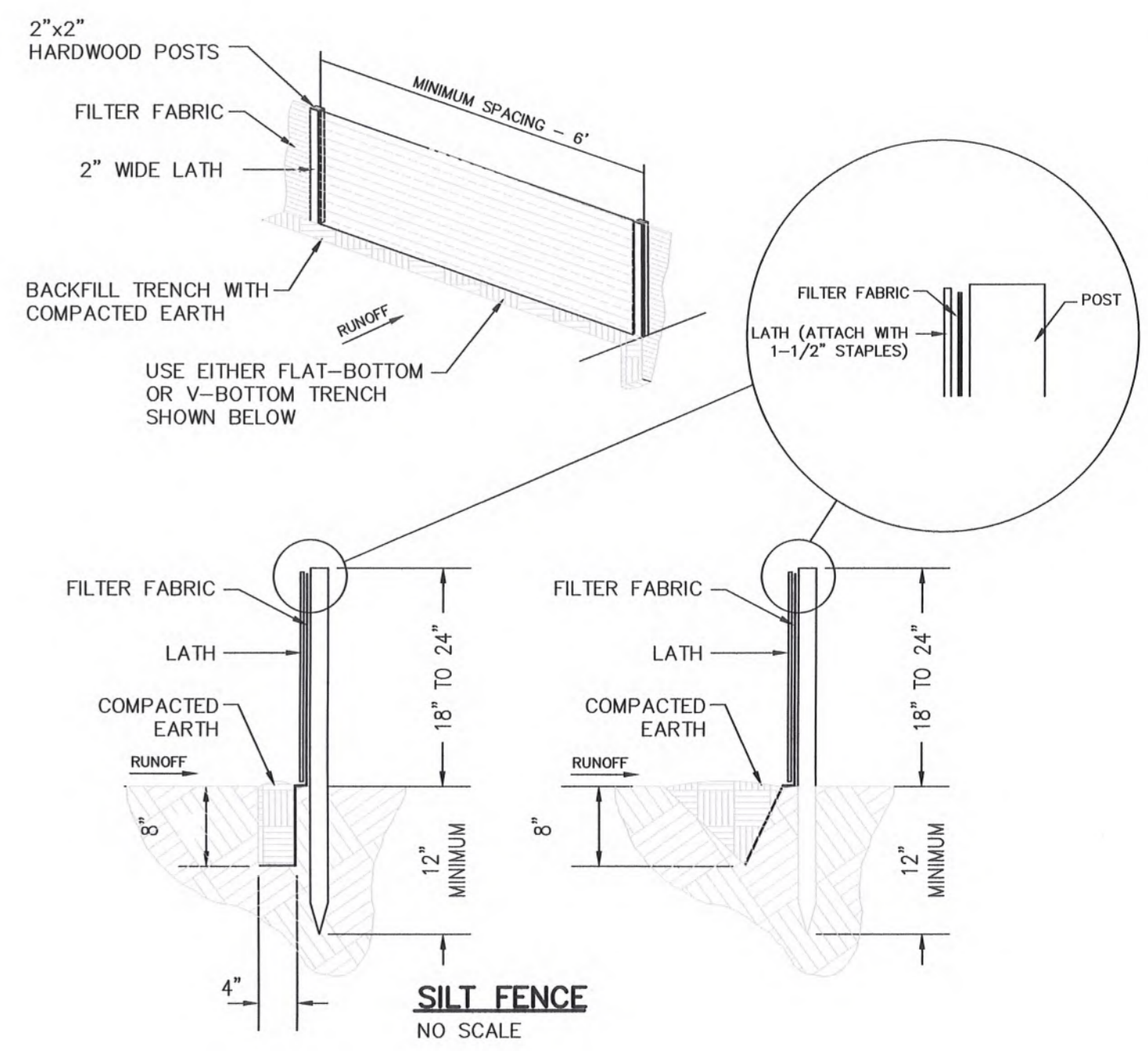
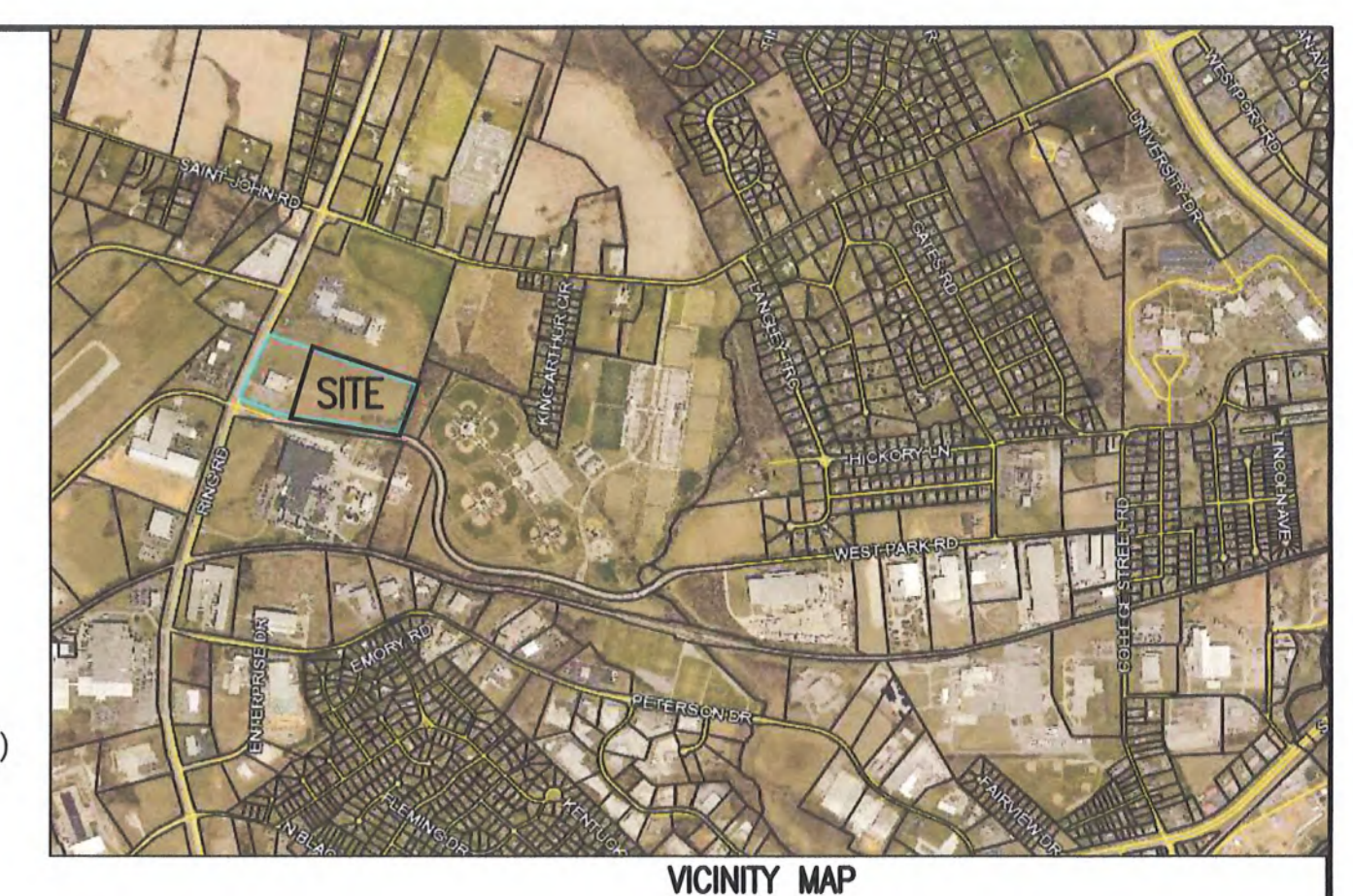
PROPOSED MAINTENANCE BUILDING
FLOOR SLAB 6" STONE, 6" CONCRETE
FFE: 734.0

FLINT INK NORTH AMERICA CORP.
PROPERTY
(DB 919 PG 500)
PVA MAP #186-00-00-025
ZONE: 1-2

FLINT INK NORTH AMERICA PROPERTY
(DB 919 PG 5)
LOT 2
FLINT INK SUBDIV
(PC 1 SHT 48)
PVA MAP #186-00-0
ZONE: 1-1

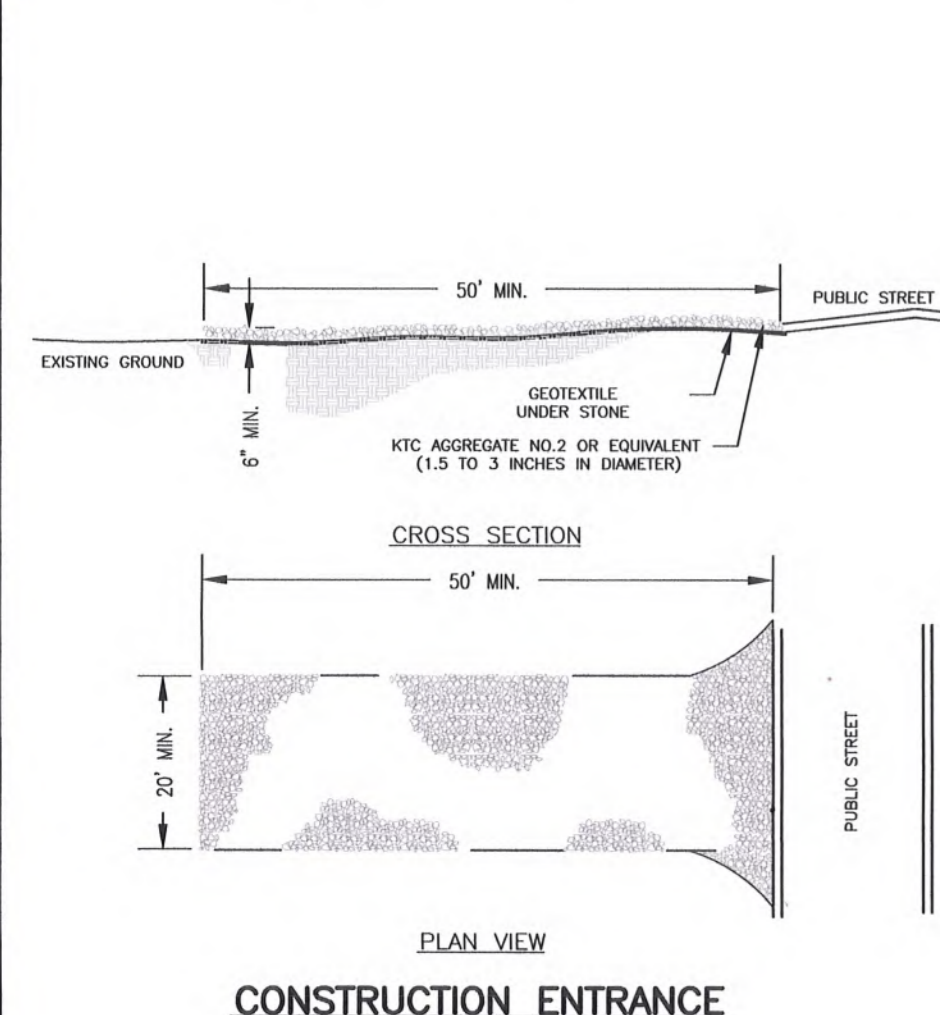
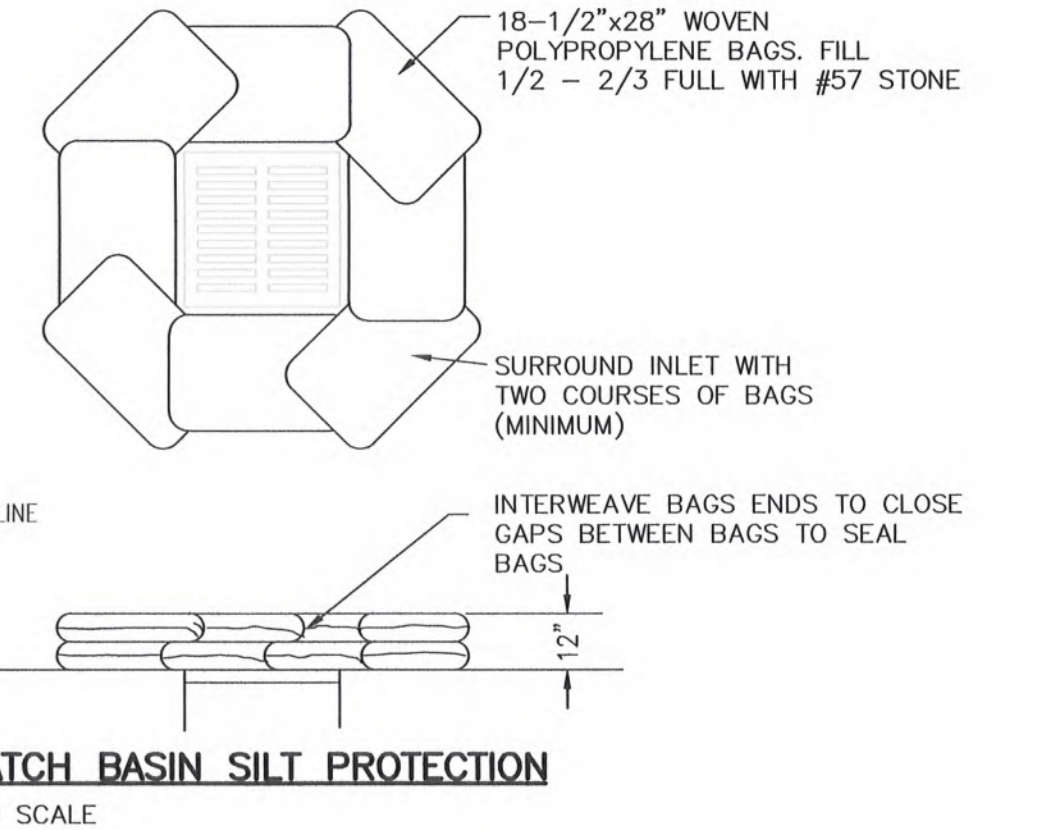
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Grid North
Tied to the
Ky. State Plane Coordinate System
NAD 83 (GNSS) - Ky. South Zone
Referenced to
Kentucky Department of Transportation (RTN Network)
Using Trimble RB - GPS Receiver - RTK METHOD
VERTICAL DATUM: NAVD 88 - GEOID G12AUS
Grid to Ground CGF = 1.00006305



LEGEND

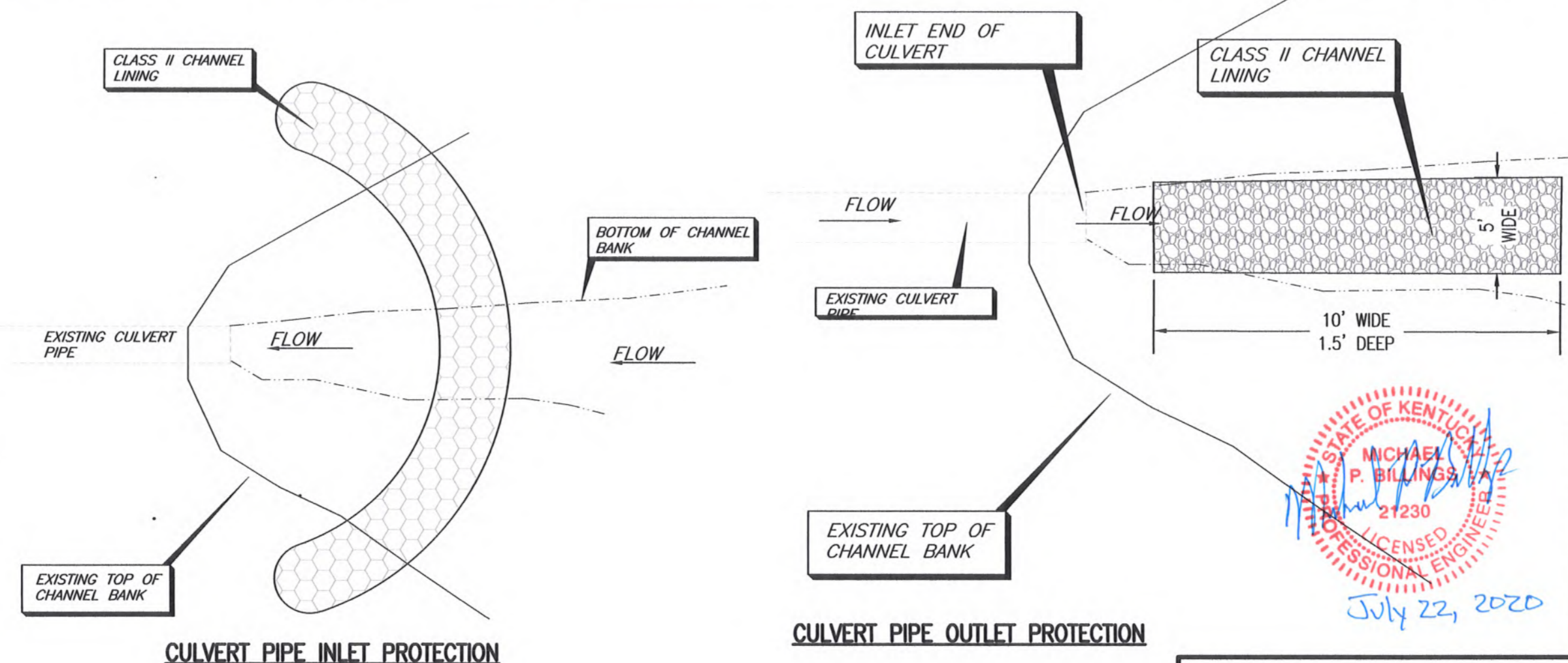
- PROPERTY LINE
- - - ADJOINING PROPERTY LINE
- - - DRAINAGE & UTILITY EASEMENT (DR & UTIL ESMT)
- - - BUILDING LINE SETBACK (B/L)
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING GAS METER
- ⊕ EXISTING CITY OF ETOWN GAS LINE
- ⊕ EXISTING FIRE HYDRANT W/ ISOLATION VALVE
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING WATER METER
- ⊕ EXISTING WATER SPIGOT
- ⊕ EXISTING HCWD #2 WATER LINE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING SANITARY SEWER LINE
- ⊕ EXISTING BRANDENBURG TELEPHONE UTILITY PEDESTAL
- ⊕ EXISTING UNDERGROUND BRANDENBURG TELEPHONE LINE
- ⊕ EXISTING WINDSTREAM UTILITY PEDESTAL
- ⊕ EXISTING UNDERGROUND WINDSTREAM LINE
- ⊕ EXISTING LIGHT POLE
- ⊕ EXISTING UNDERGROUND UTILITY LINE
- ⊕ EXISTING TRAFFIC LIGHT POLE



SPECIFICATIONS FOR GEOTEXTILE FABRIC

GRAB TENSILE STRENGTH	220 LBS. (MIN.) (ASTM D1682)
ELONGATION FAILURE	15% (MIN.) (ASTM D1682)
MULLEN BURST STRENGTH	430 LBS. (MIN.) (ASTM D3768)
PUNCTURE STRENGTH	120 LBS. (MIN.) (ASTM D7511) (MODIFIED)
EQUIVALENT OPENING	SIZE 40-80 (US STD SIEVE) (CW-0215)

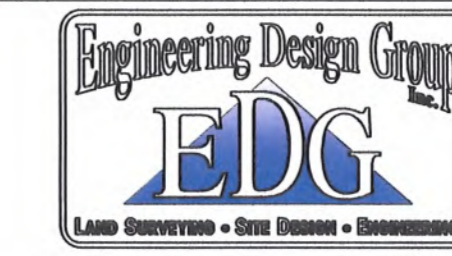
- A stabilized entrance pad of crushed stone shall be located where traffic will enter or leave the construction site onto a public street.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- SOIL STABILIZATION FABRIC SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE, SUCH AS MIRAFT 600X OR APPROVED EQUIVALENT.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED ONLY.
- WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
- REMOVE CONSTRUCTION ENTRANCES AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE. BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT USING APPROPRIATE PERMANENT STABILIZATION METHODS.



OWNER:
HARDIN COUNTY WATER DISTRICT #2
315 SOUTH MULBERRY ST
ELIZABETHTOWN KY 42701
(270) 737-1056

DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270) 765-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY 42702-2484
(270) 769-1436 (270) 765-9908 FAX
MBILLINGS@ENGDESGRP.COM

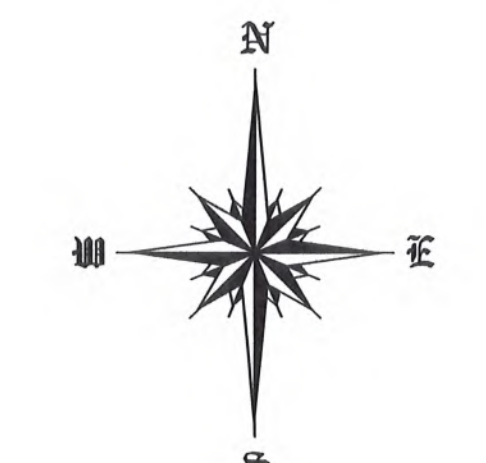


DATE: JULY 21, 2020 SCALE: 1" = 50'

CAUTION !!!
PRIOR TO ANY EXCAVATION CONTACT
#811* CALL BEFORE U DIG!!!

EPSC PLAN
OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY

SHT 7 OF 12



Grid North
Tied to the
Ky. State Plane Coordinate System
NAD 83 (GNSS) - Ky. South Zone
Referenced to
Kentucky Department of Transportation (RTN Network)
Using Trimble RB - GPS Receiver - RTK METHOD
VERTICAL DATUM: NAVD 88 - GEOID G12AUS
Grid to Ground CGF = 1.00006305

HARDIN COUNTY WATER DISTRICT #2
PROPERTY
(DB 845 PG 88)
LOT 3D
HUGHES COMMERCE CENTER
SECTION 2
(PC 1 SHT 1768)
PVA MAP #186-00-00-027.10
ZONE: MAZ

KY. HWY. 3005 (RING ROAD) (R/W VARIES)

COMMUNICATION LINES - (BRANDENBURG TELECOM, WINDSTREAM, AND XFINITY) RESPECTIVE COMMUNICATION COMPANIES SUPPLY CONDUIT. CONTRACTOR TO INSTALL CONDUIT AS DIRECTED BY RESPECTIVE COMMUNICATION COMPANIES. CAUTION UNDERGROUND ELECTRIC EXISTS IN THIS AREA.

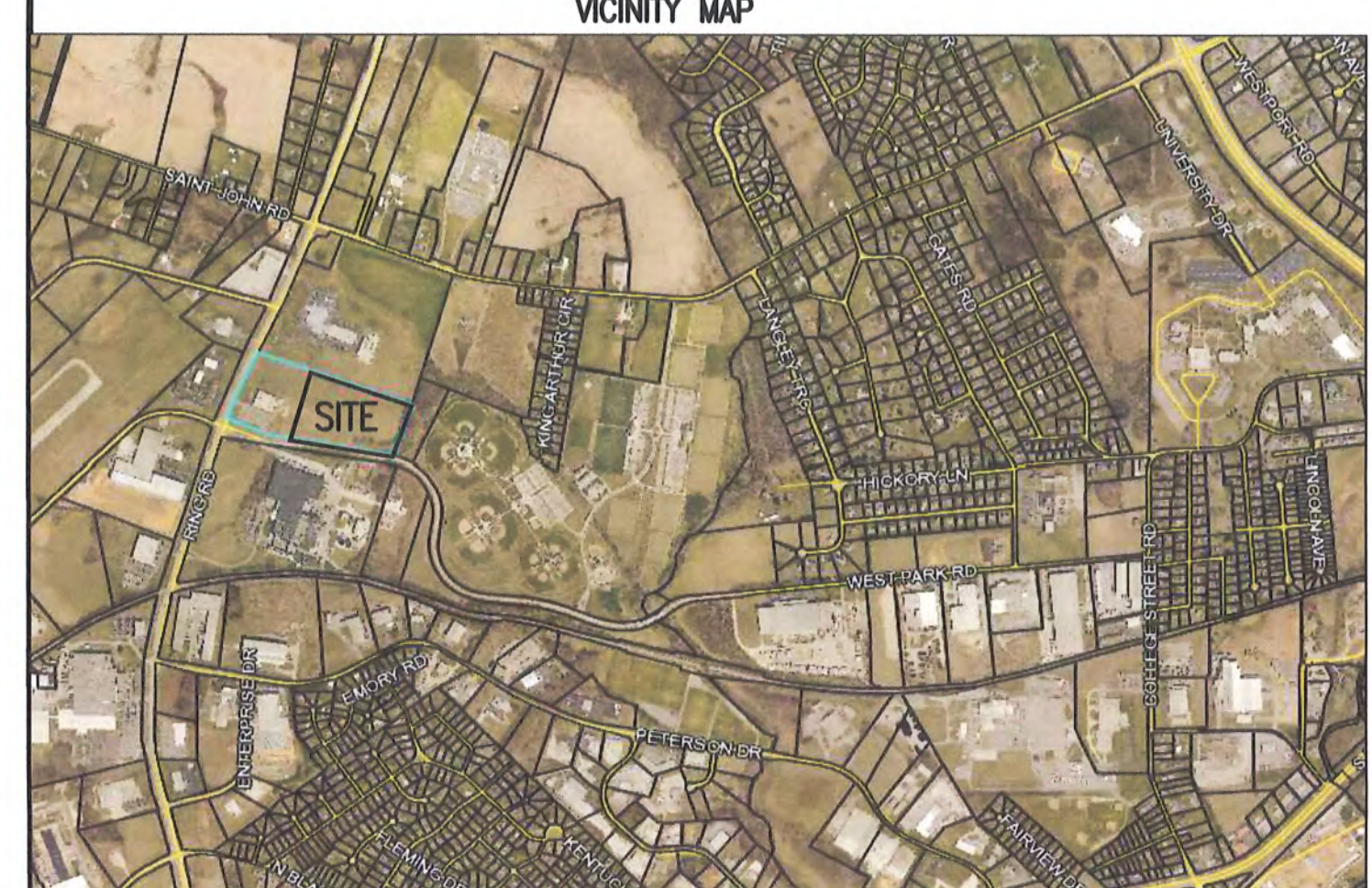
COMMUNICATION LINES END HERE. (BRANDENBURG TELECOM, WINDSTREAM, AND XFINITY) RESPECTIVE COMMUNICATION COMPANIES SUPPLY CONDUIT. CONTRACTOR TO INSTALL CONDUIT AS DIRECTED BY RESPECTIVE COMMUNICATION COMPANIES. CAUTION UNDERGROUND ELECTRIC EXISTS IN THIS AREA.

FROM THE EXISTING ELECTRIC CABINET TO THE BUILDING COMMUNICATION LINES - (BRANDENBURG TELECOM, WINDSTREAM, AND XFINITY) AND NOLIN RECC ELECTRIC LINES SHALL BE INSTALLED IN THE SAME TRENCH IN ACCORDANCE WITH NOLIN RECC SPECIFICATIONS. RESPECTIVE COMMUNICATION COMPANIES SUPPLY CONDUIT. CONTRACTOR TO INSTALL CONDUIT AS DIRECTED BY RESPECTIVE COMMUNICATION COMPANIES.

NOLIN RECC
PROPERTY
(DB 757 PG 521)
(DB 751 PG 709)
LOT 3C
HUGHES COMMERCE CENTER
SECTION 2
(PC 1 SHT 1807)
PVA MAP #186-00-00-049
ZONE: 1-2

HUGHES COMMERCE CENTER
SECTION 2
LOT 1B
ZONE: 1-1

FLINT INK NORTH AMERICA CORP.
PROPERTY
(DB 919 PG 550)
LOT 2
FLINT INK SUBDIVISION
(PC 1 SHT 4829)
PVA MAP #186-00-00-025.02
ZONE: 1-1



VICINITY MAP

- PROPOSED FIRE HYDRANT W/ ISOLATION VALVE
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED GAS LINE
- PROPOSED ELECTRIC & COMMUNICATIONS (NOLIN, BRANDENBURG, WINDSTREAM, XFINITY)
- PROPOSED COMMUNICATIONS (BRANDENBURG, WINDSTREAM, XFINITY)
- PROPOSED SANITARY SEWER
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- DRAINAGE & UTILITY EASEMENT (DR & UTIL ESMT)
- BUILDING LINE SETBACK (B/L)
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING CITY OF ETOWN GAS LINE

LEGEND

- EXISTING FIRE HYDRANT W/ ISOLATION VALVE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WATER SPOCOT
- EXISTING HWY #2 WATER LINE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING BRANDENBURG TELEPHONE UTILITY PEDESTAL
- EXISTING UNDERGROUND BRANDENBURG TELEPHONE LINE
- EXISTING UNDERGROUND UTILITY PEDESTAL
- EXISTING UNDERGROUND WINDSTREAM LINE
- EXISTING LIGHT POLE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING TRAFFIC LIGHT POLE

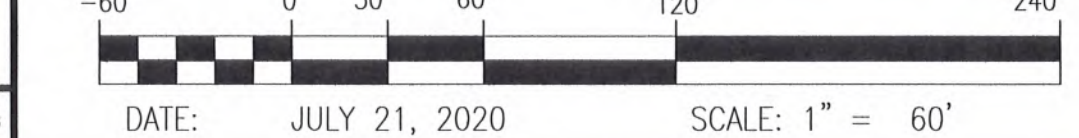
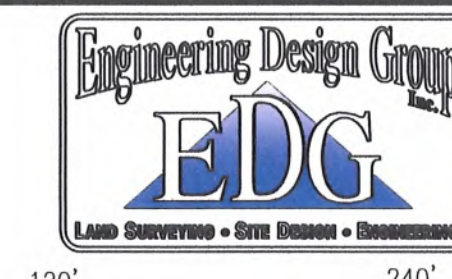
SOURCE OF TITLE:
HARDIN COUNTY WATER DISTRICT #2
DEED BOOK 1425 PAGE 608
LOT 1A HUGHES COMMERCE CENTER SECTION 2
PLAT CABINET 1 SHEET 6619
PVA MAP #186-00-00-024
CURRENT ZONE: 1-2

CAUTION !!!
PRIOR TO ANY EXCAVATION CONTACT
811 CALL BEFORE U DIG!!!

OWNER:
HARDIN COUNTY WATER DISTRICT #2
360 RING RD
ELIZABETHTOWN KY 42701
(270) 737-1056

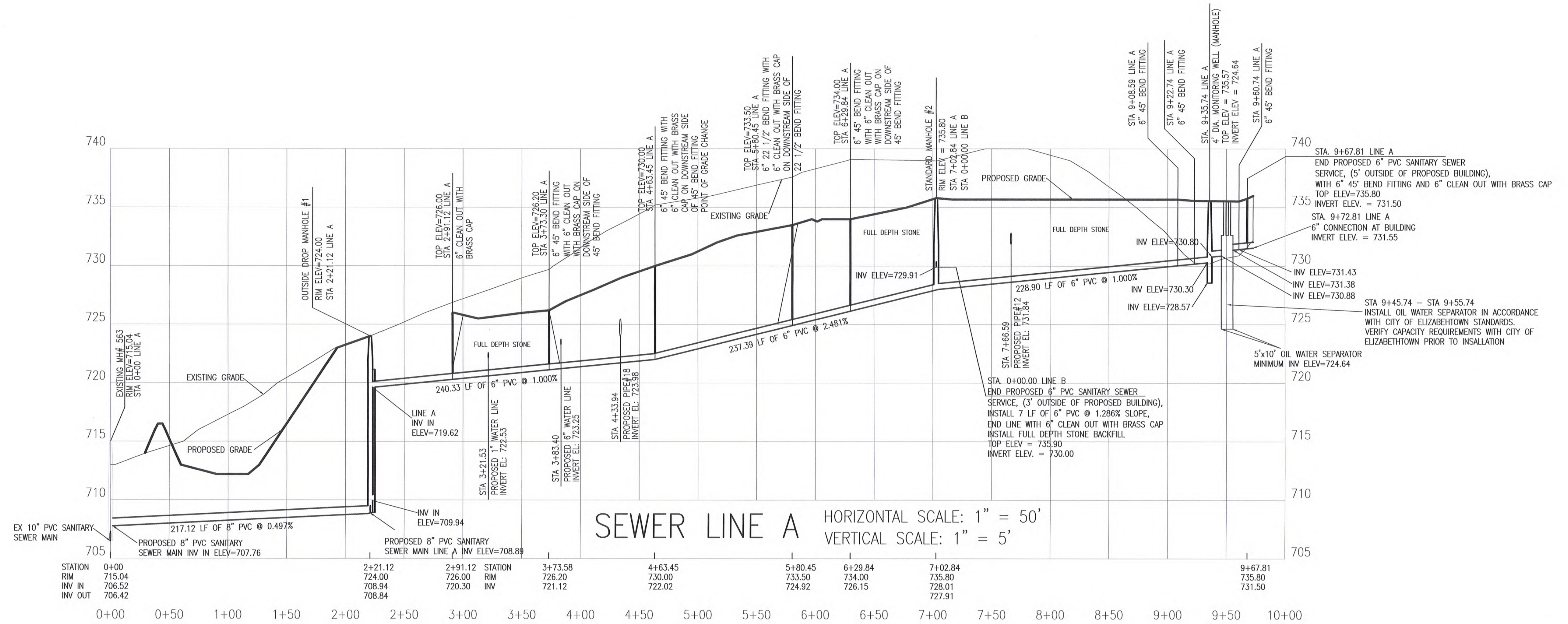
DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270)765-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY. 42702-2484
(270) 769-1436 (270)765-9908 FAX
MBILLINGS@ENGDESGRP.COM



UTILITY PLAN
OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY
SHT 8 OF 12





STATE OF KENTUCKY
 MICHAEL P. BILLINGS
 LICENSED PROFESSIONAL ENGINEER
 July 27, 2020

OWNER: HARDIN COUNTY WATER DISTRICT #2 360 RING RD ELIZABETHTOWN KY 42701 (270) 737-1056	DEVELOPER: JENKINS-ESSEX CONSTRUCTION CO 136 HOWELL DRIVE ELIZABETHTOWN KY 42701 (270)765-6113
ENGINEER/SURVEYOR: ENGINEERING DESIGN GROUP, INC 315 SOUTH MULBERRY ST P.O. BOX 2484 ELIZABETHTOWN, KY. 42702-2484 (270) 769-1436 (270)765-9908 FAX MBILLINGS@ENGDESGRP.COM	

DATE: JULY 21, 2020 SCALE: 1" = 50'

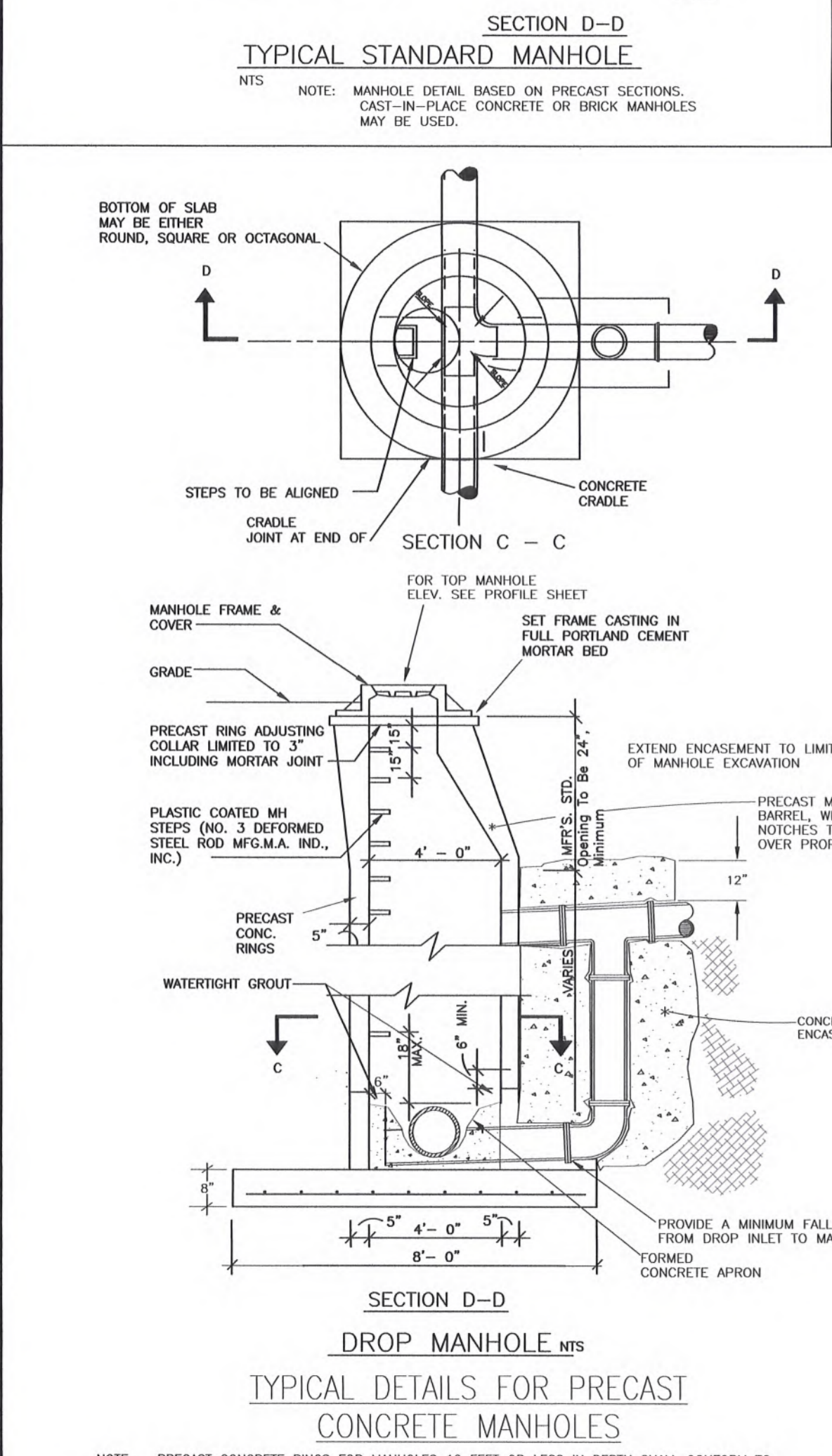
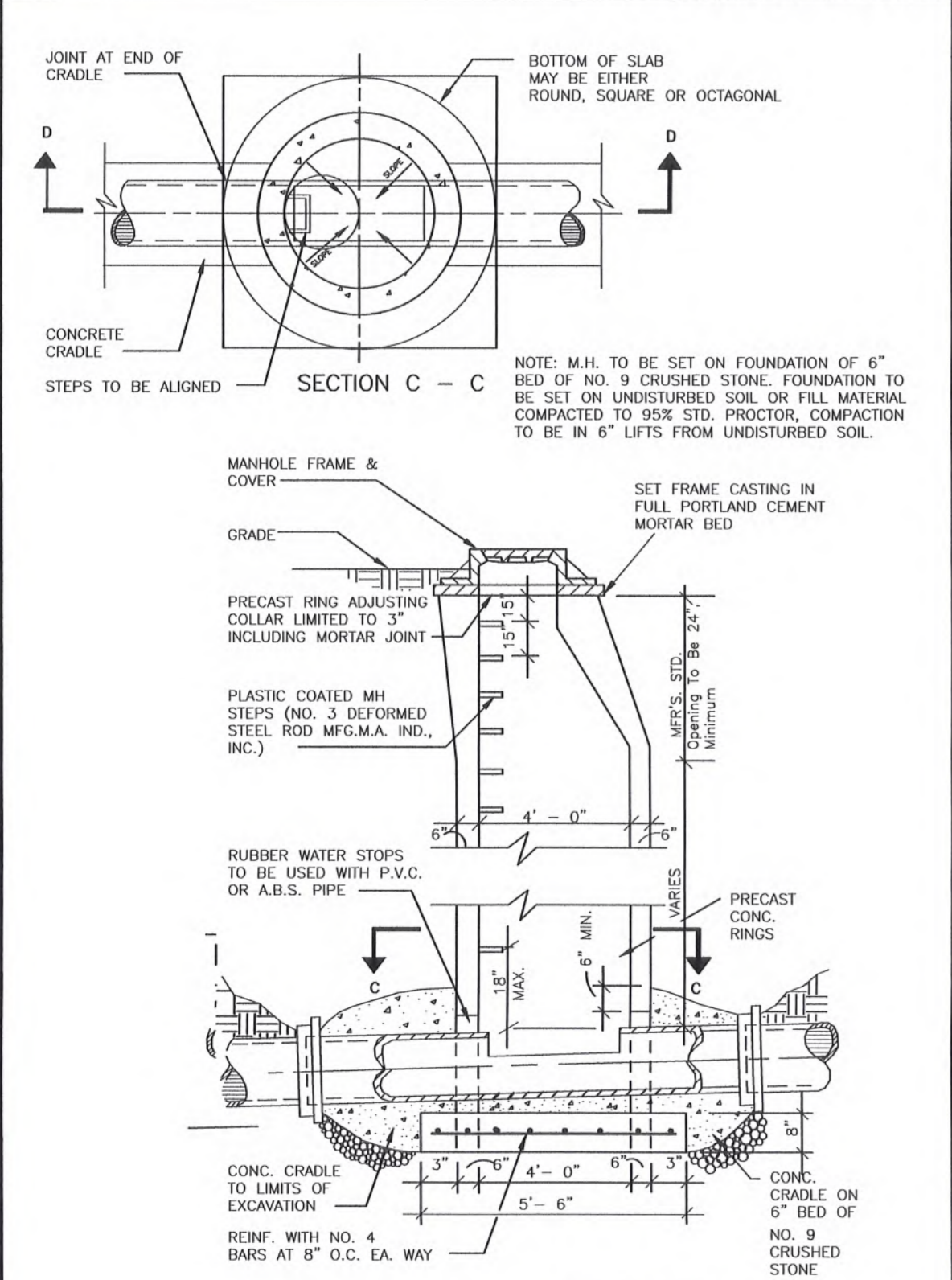
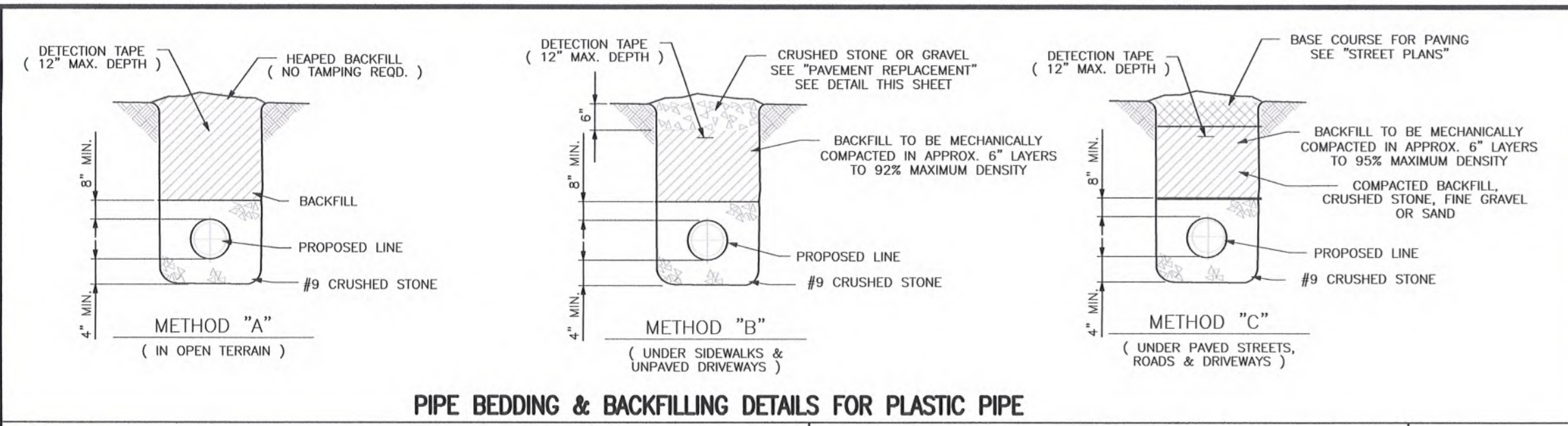
SANITARY SEWER PROFILE
 OF
HARDIN COUNTY WATER DISTRICT #2
 LOT 1C
 HUGHES COMMERCE CENTER
 SECTION 2
 1951 WEST PARK ROAD
 ELIZABETHTOWN, KENTUCKY

SHT 9 OF 12

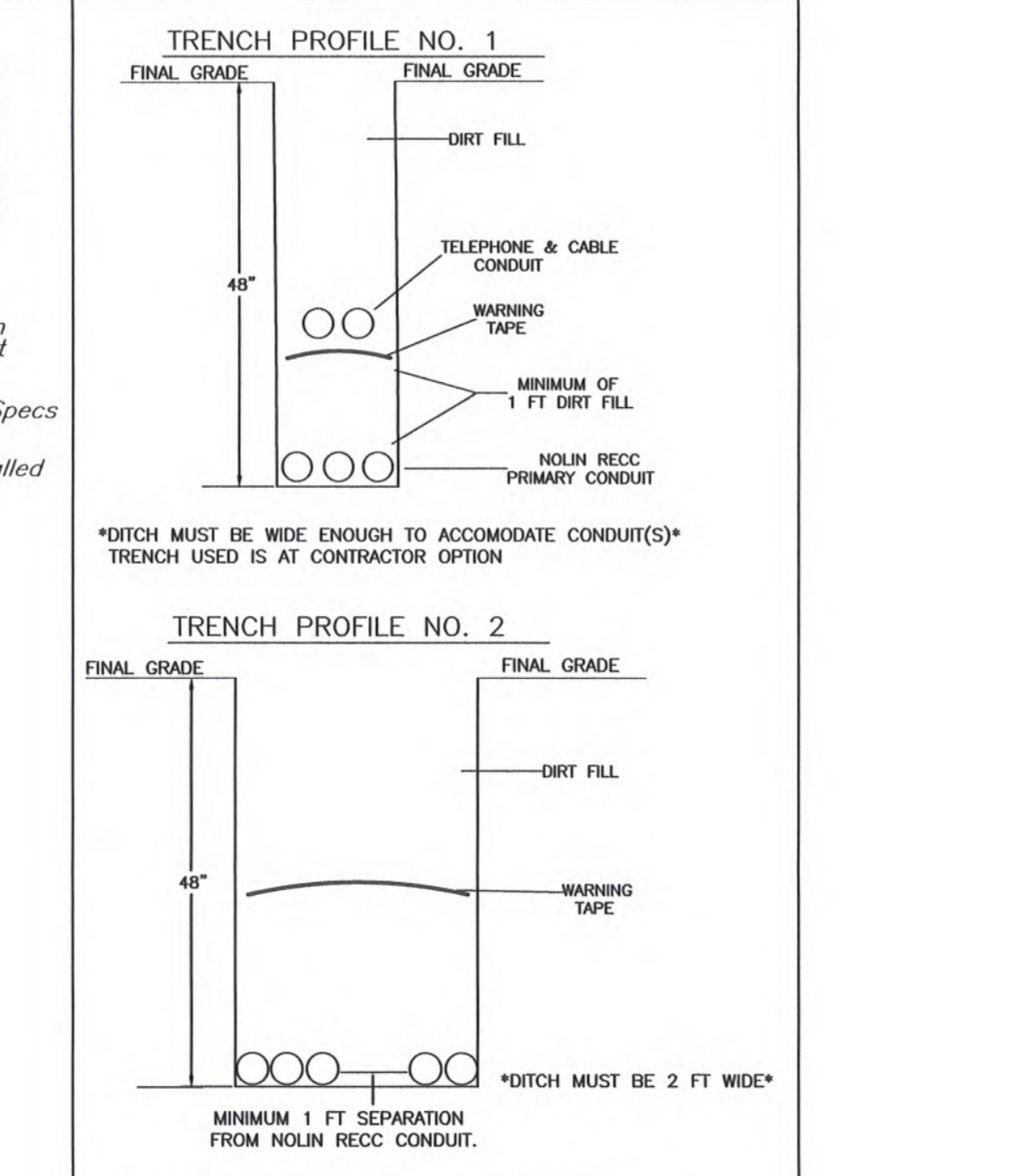
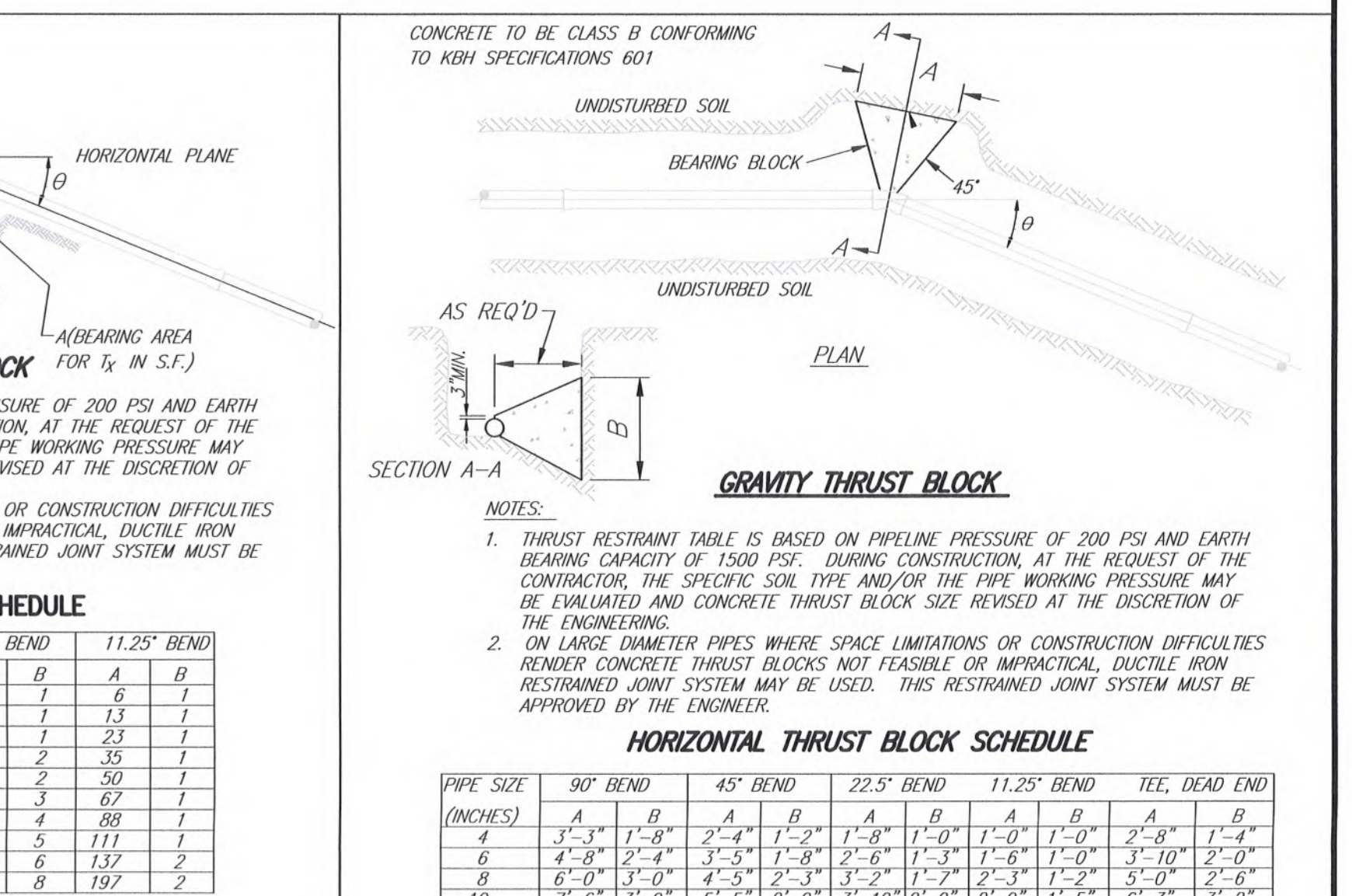
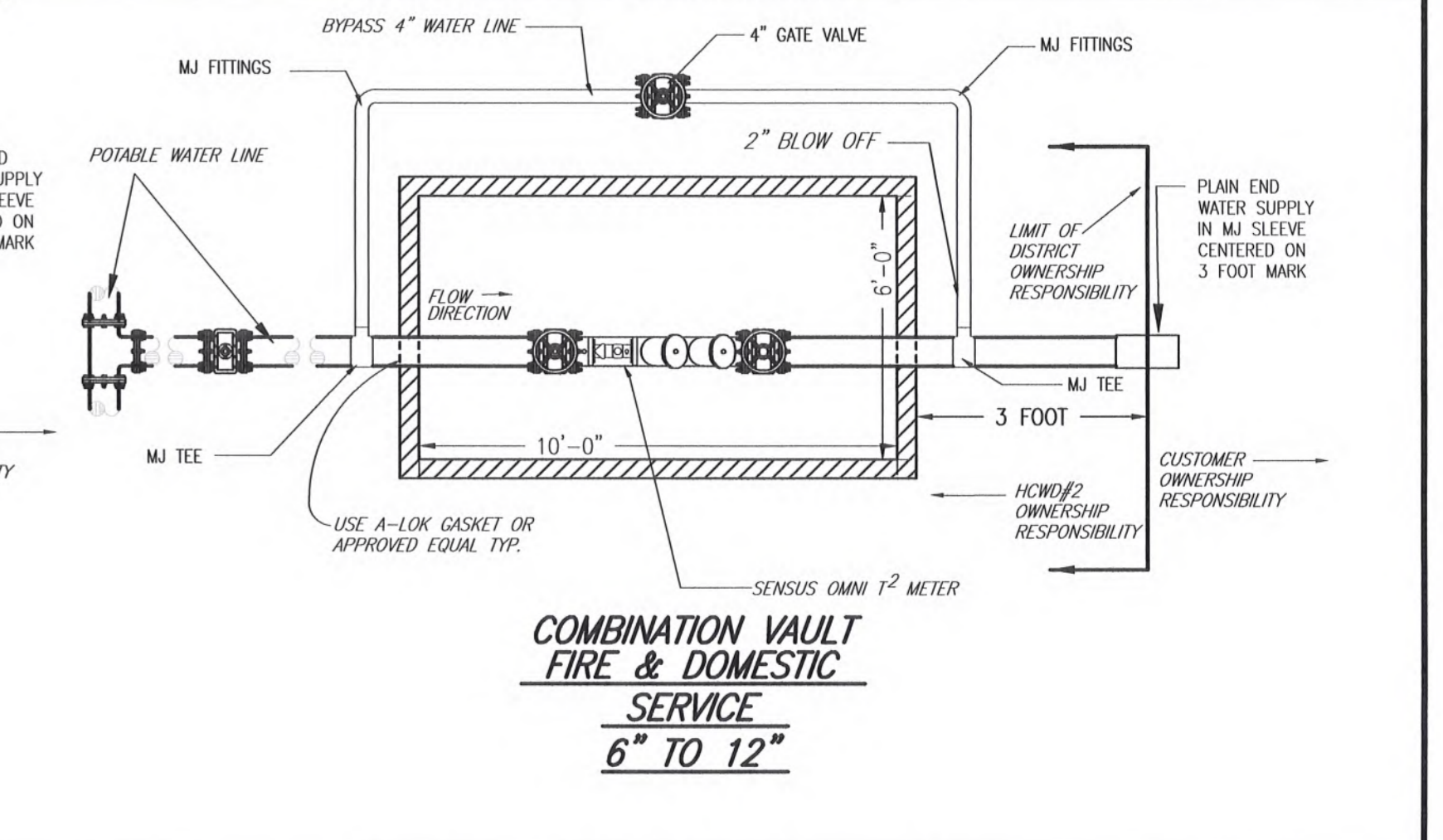
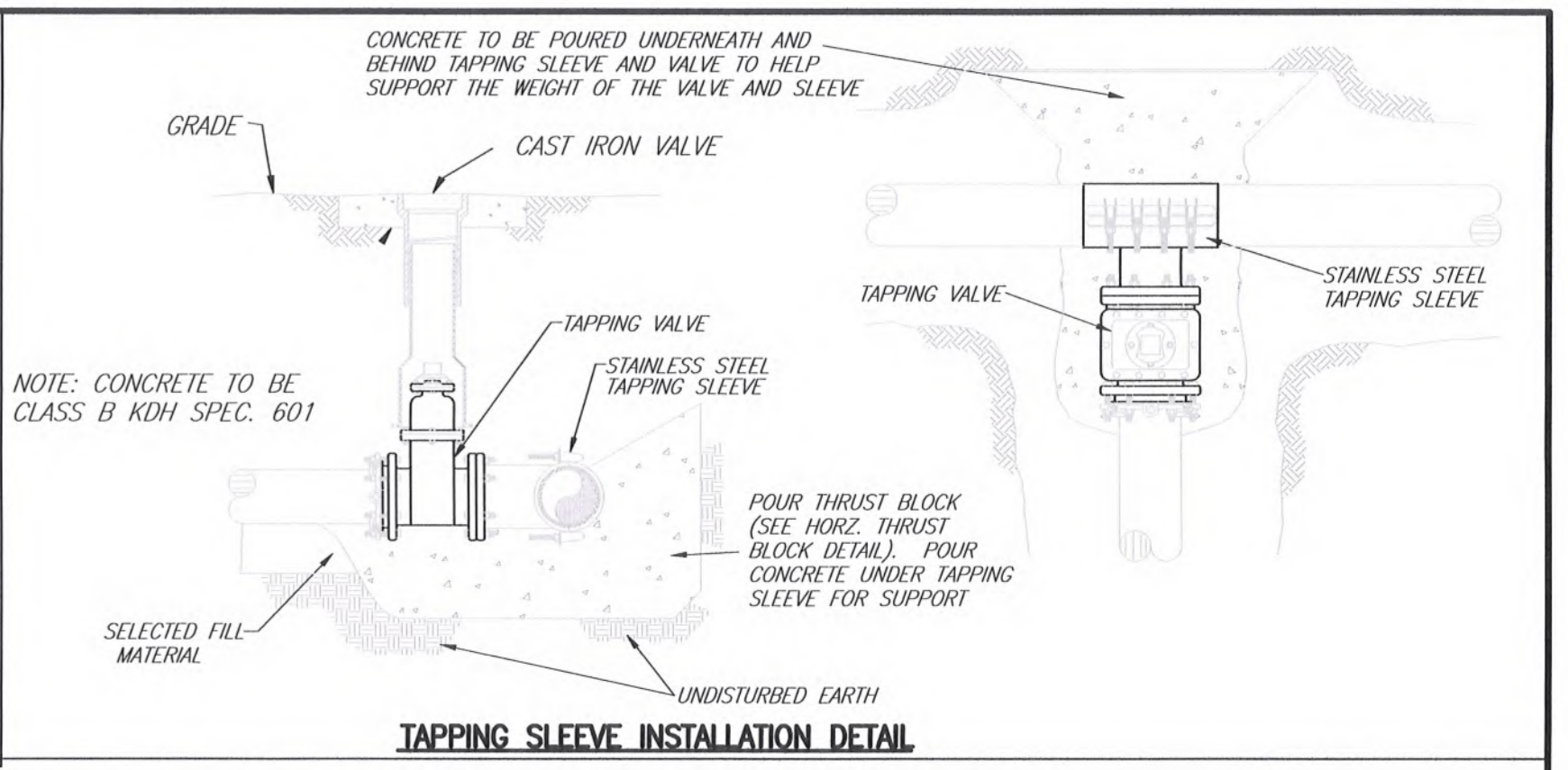
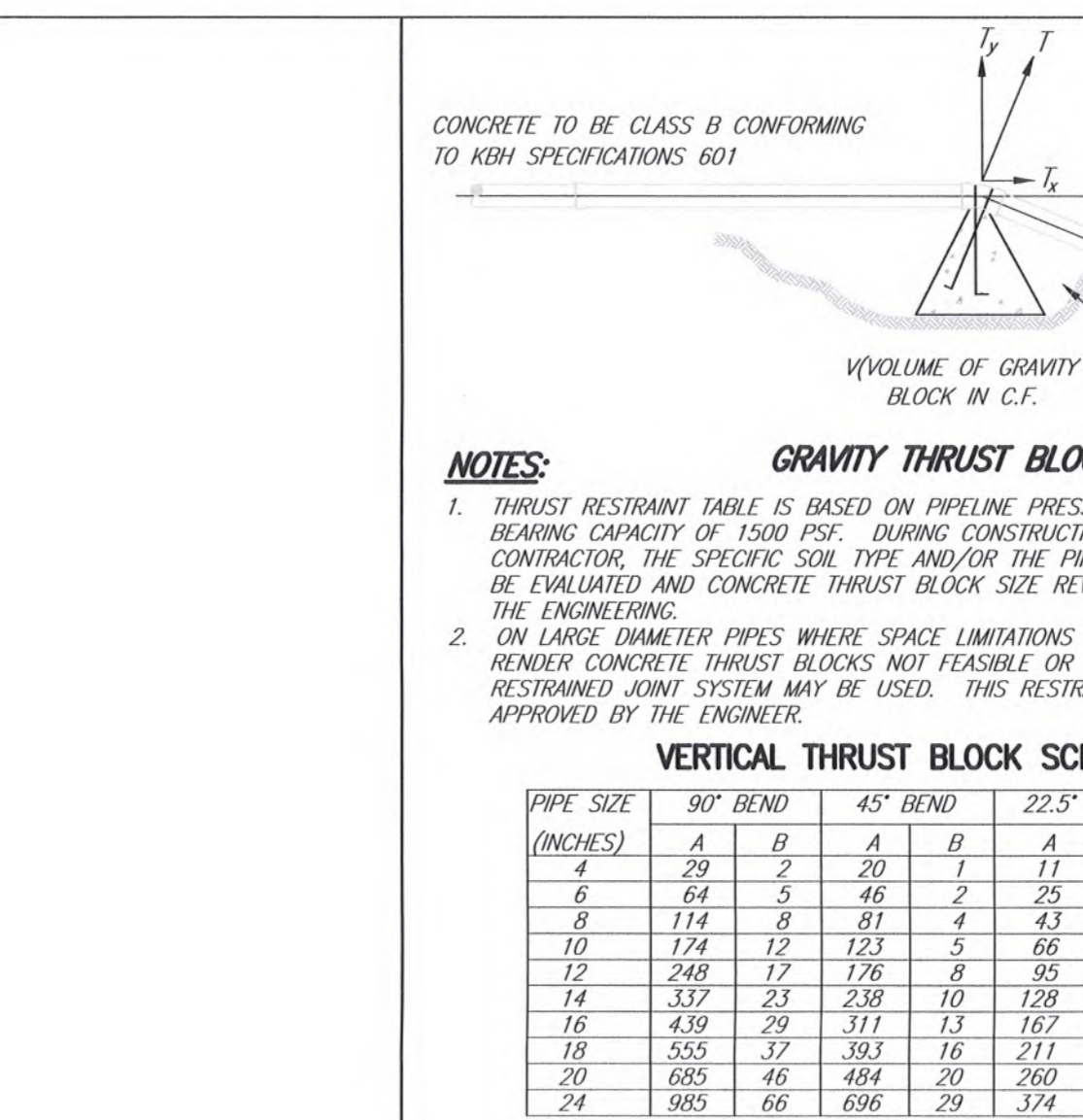
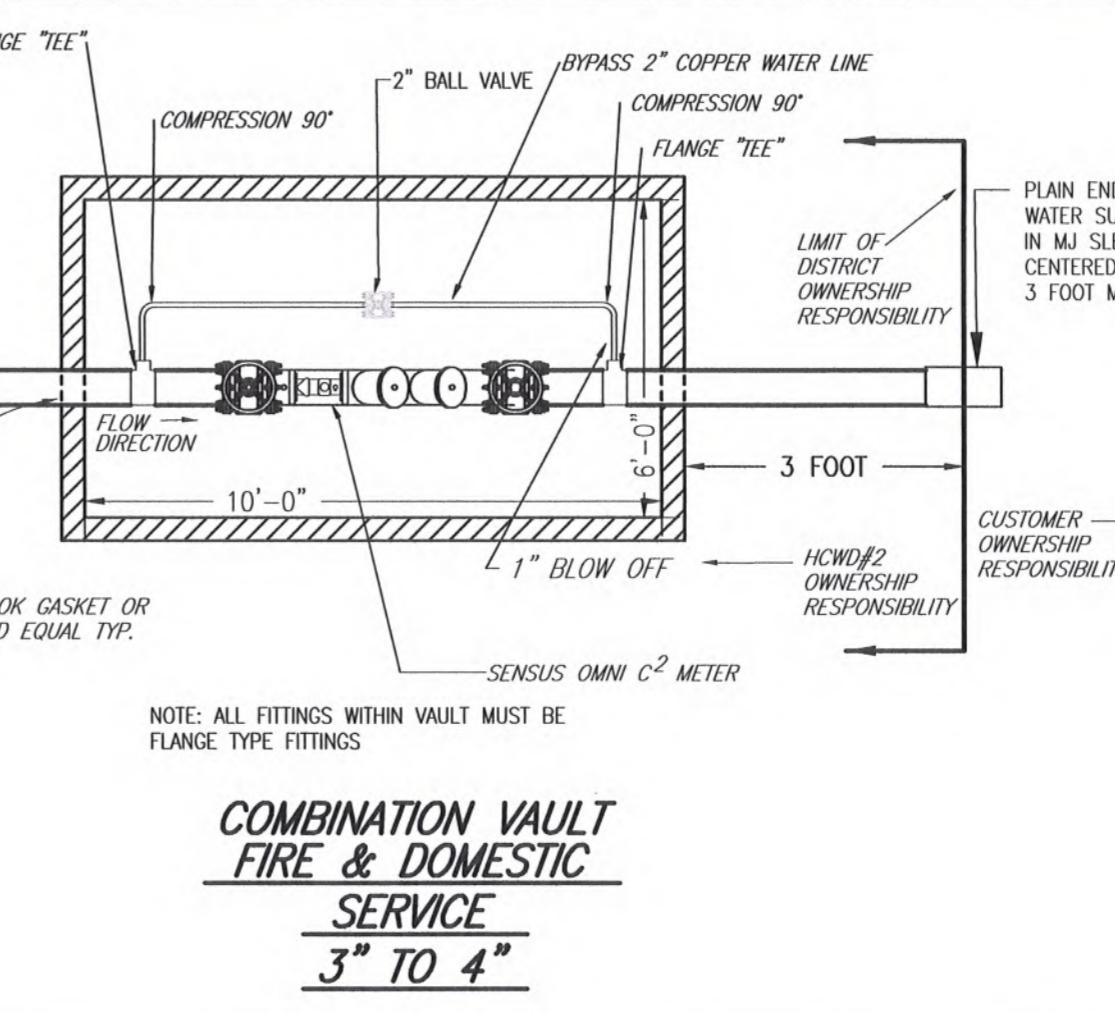
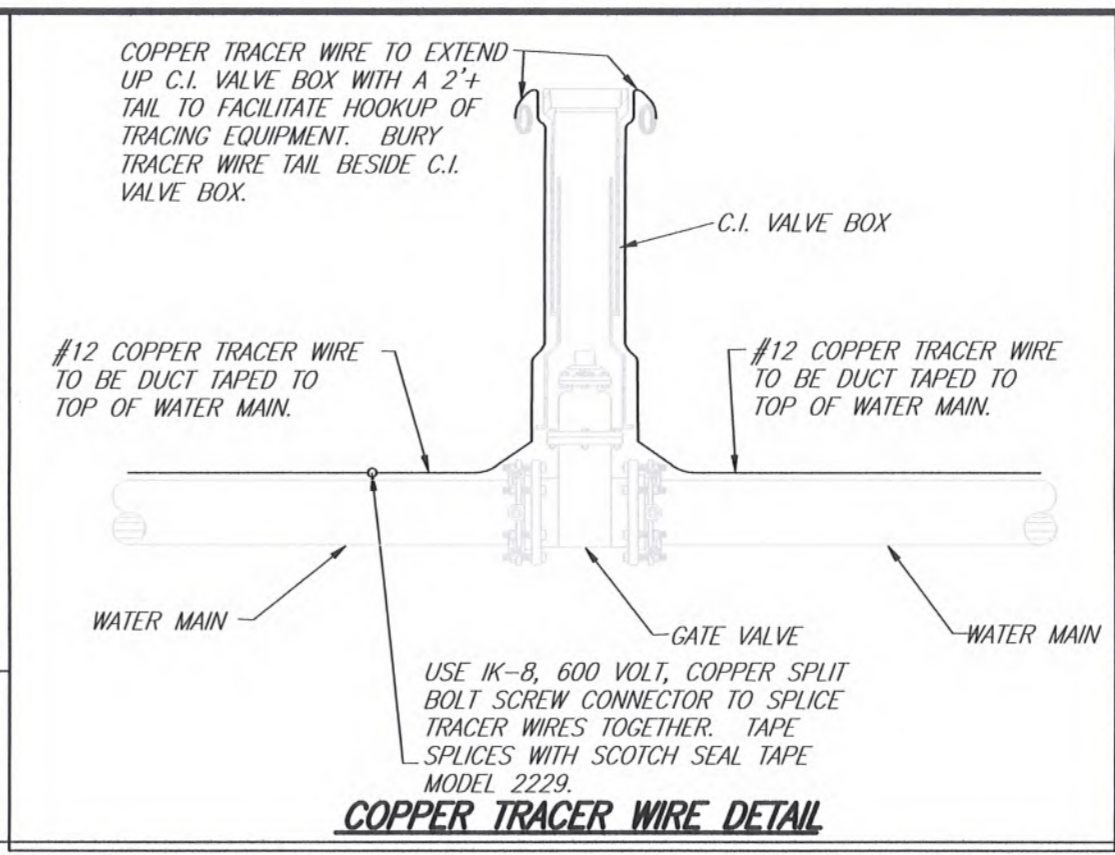
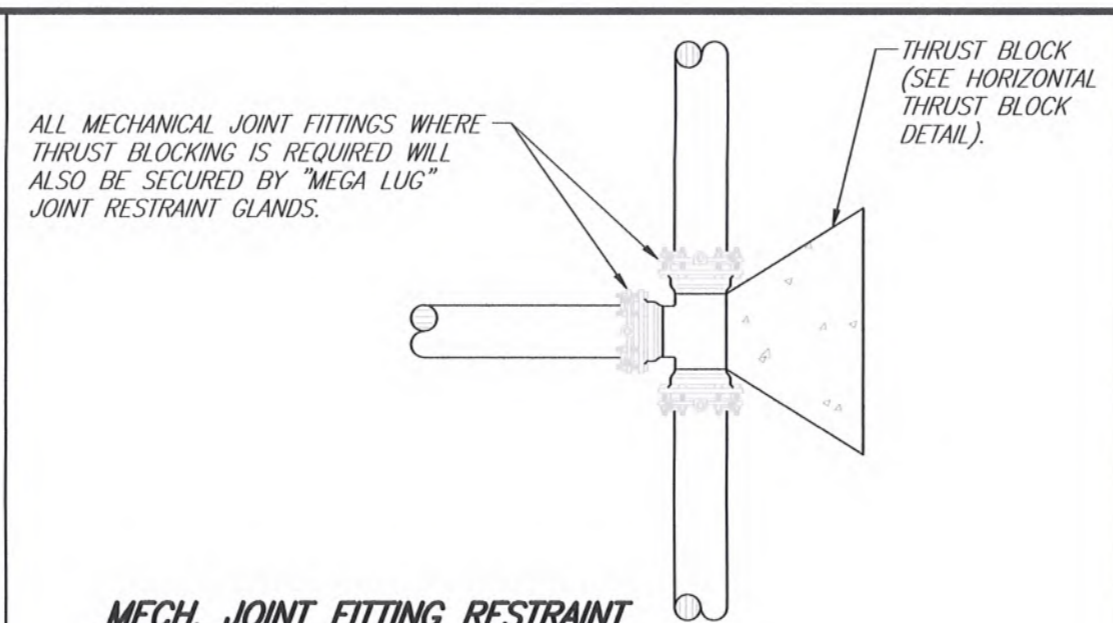
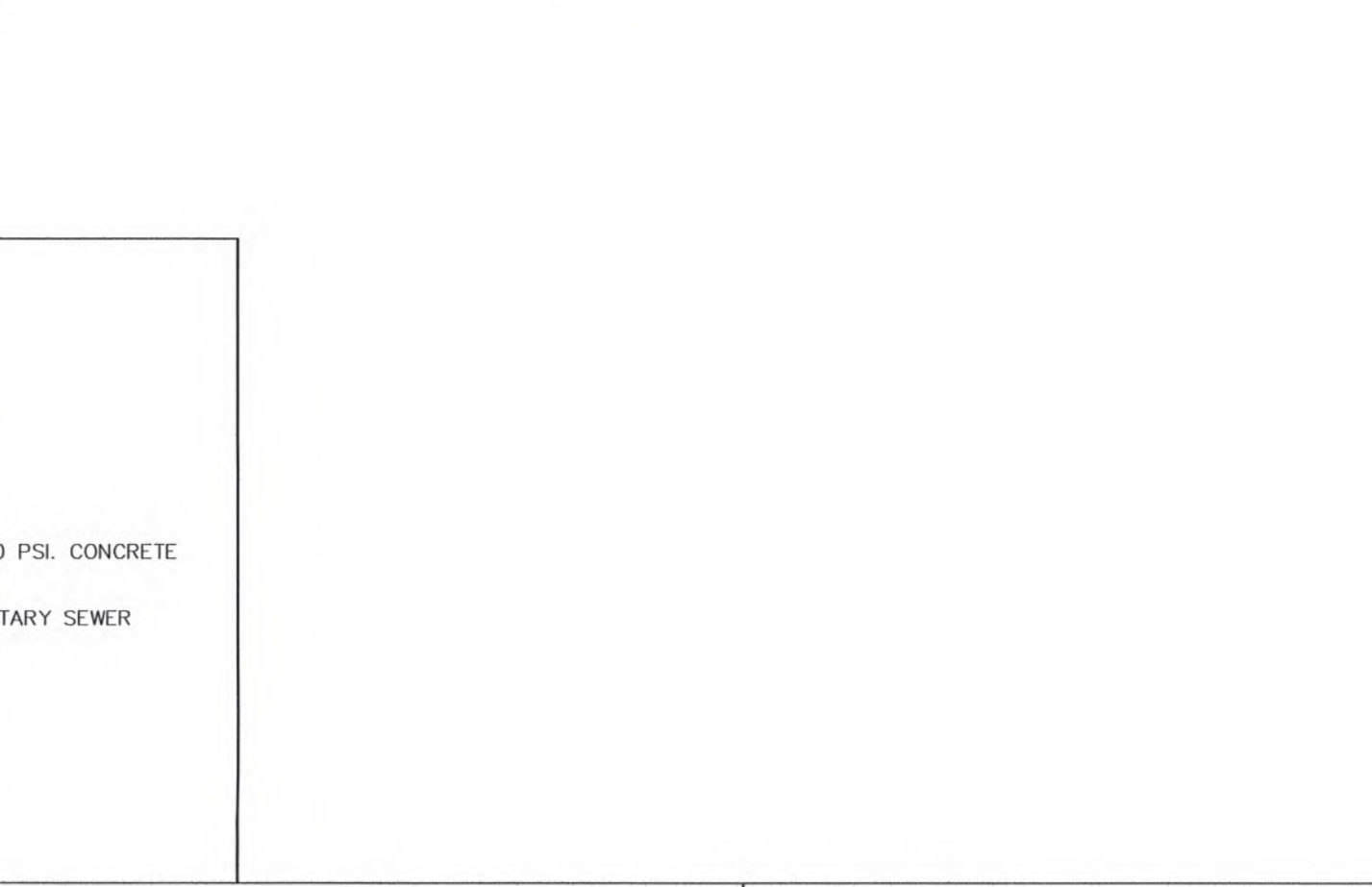
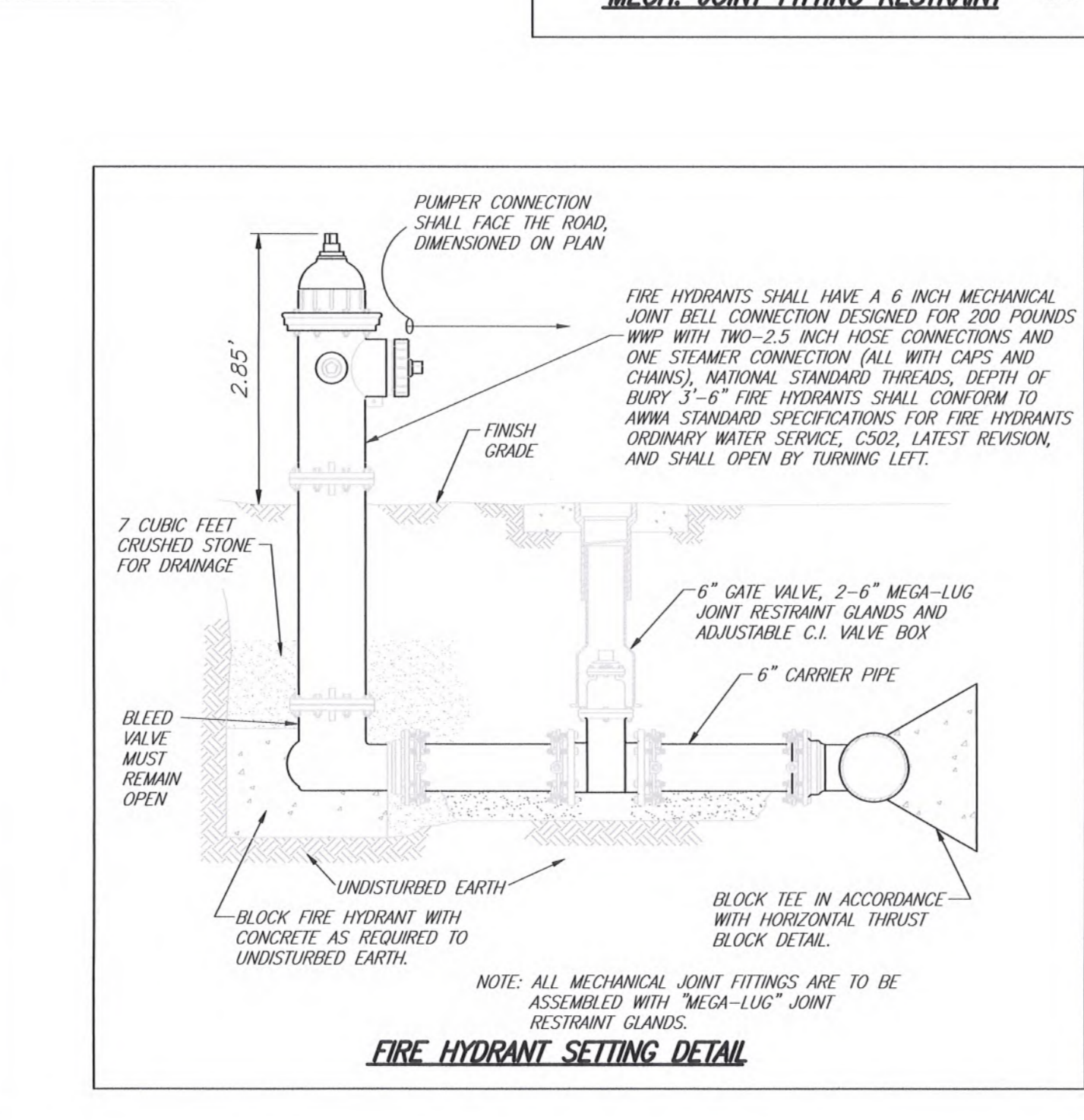
CAUTION !!!
 PRIOR TO ANY EXCAVATION CONTACT
 811 CALL BEFORE U DIG!!!

PROJECTS/HWD-2/NEW OFFICE BLDG OFF RING RD/HW02-11A-DSE-0710.WG

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- SANITARY SEWER GENERAL NOTES**
- ALL COLLECTOR SEWER SHALL BE 8" AND CONFORM TO THE REQUIREMENTS OF A.S.T.M. SPECIFICATION D-3034, LATEST ISSUE, MINIMUM WALL THICKNESS SDR-35 (PVC PIPE), OR APPROVED EQUAL.
 - ALL 8" PIPE SHALL BE INSTALLED IN ACCORDANCE WITH A.S.T.M. D-2321 OR EQUIVALENT.
 - FOR SANITARY SEWER CONSTRUCTION DETAILS, SEE ATTACHED SHEET 2 OF 2.
 - ACCURATE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO FINAL PAYMENT.
 - END OF SEWER SERVICES SHALL BE MARKED WITH A 4"x4" POST EXTENDING APPROX. FOUR FEET OUT OF GROUND.
 - ALL CONSTRUCTION METHODS AND MATERIALS SHALL COMPLY WITH CITY OF ELIZABETHTOWN STANDARDS.
 - ALL CONNECTIONS TO NEW OR EXISTING MANHOLES SHALL BE EITHER FORMED OR CORE DRILLED WITH BOOT CONNECTOR CONFORMING TO KOR-N-SEAL 1 OR APPROVED EQUAL. EXISTING LOW CHANNEL TO BE REWORKED TO ACCOUNT FOR ADDITIONAL CONNECTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MANHOLE FRAME AND LID AT AN ELEVATION THAT WILL NOT ALLOW STORMWATER TO ACCUMULATE AT AND DRAIN INTO MANHOLE.
 - ALL 4" & 6" SEWER SERVICE LINES SHALL BE LAID AT 1.00% (MIN).
 - FOR SANITARY SEWER PROFILES, SEE THIS SHEET.
 - ALL SANITARY SEWER CROSSING EXISTING OR PROPOSED PAVED SURFACE SHALL BE BACKFILLED FULL-DEPTH WITH CRUSHED STONE.
 - ALL SEWER SHALL BE SMOKE TESTED AND/OR LOW PRESSURE AIR TESTED. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS RUN USING A ROAD ROLL OR MANHOLE, IT SHALL HAVE A DIAMETER EQUAL TO SIZE OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
 - STUB OUT OF MANHOLE SHALL CONSIST OF 1' (ONE) FOOT OF PIPE, WITH PLUG, EXTENDING BEYOND THE OUTSIDE EDGE OF MANHOLE.
 - ALL MANHOLES SHALL BE VACUUM TESTED PER THE REQUIREMENTS OF ASTM C 274-83.
 - ALL SANITARY SEWER MAINS PRIVATE SANITARY SEWER MAINS AND MANHOLES, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF THESE PIPES AND MANHOLES. ALL MAINS AND MANHOLES SHALL STILL BE TESTED PER THE REQUIREMENTS LISTED.
 - CONNECTION SHALL BE CORE DRILLED UNLESS A WATER TIGHT RUBBER BOOT SEAL INVERT OF PROPOSED SANITARY SEWER CONNECTION SHALL NOT BE ANY MORE THAN 2' FOOT ABOVE EXISTING FLOW LINE INVERT.
 - EXISTING MANHOLE CHANNEL TO BE REWORKED AS NEEDED TO ACCOMMODATE PROPOSED SANITARY SEWER CONNECTIONS-FLOW PATH.
 - SEWER LINES CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER LINE. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER LINE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER LINE JOINTS ARE CONSIDERABLE AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER LINE TO PREVENT DAMAGE TO THE WATER MAIN.
 - SEWER LINES SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED FROM EDGE TO EDGE.



PROJECTS/HOWD-2/NEW OFFICE BLDG OFF RING RD/HOWD-1/L1A-BASE-0718

DATE: JULY 21, 2020

SCALE: 1" = NTS

OWNER:
HARDIN COUNTY WATER DISTRICT #2
360 RING RD
ELIZABETHTOWN KY 42701
(270) 737-1056

DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270) 765-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY. 42702-2484
(270) 769-1436 (270) 765-9908 FAX
MEILLINGS@ENGDESGRP.COM

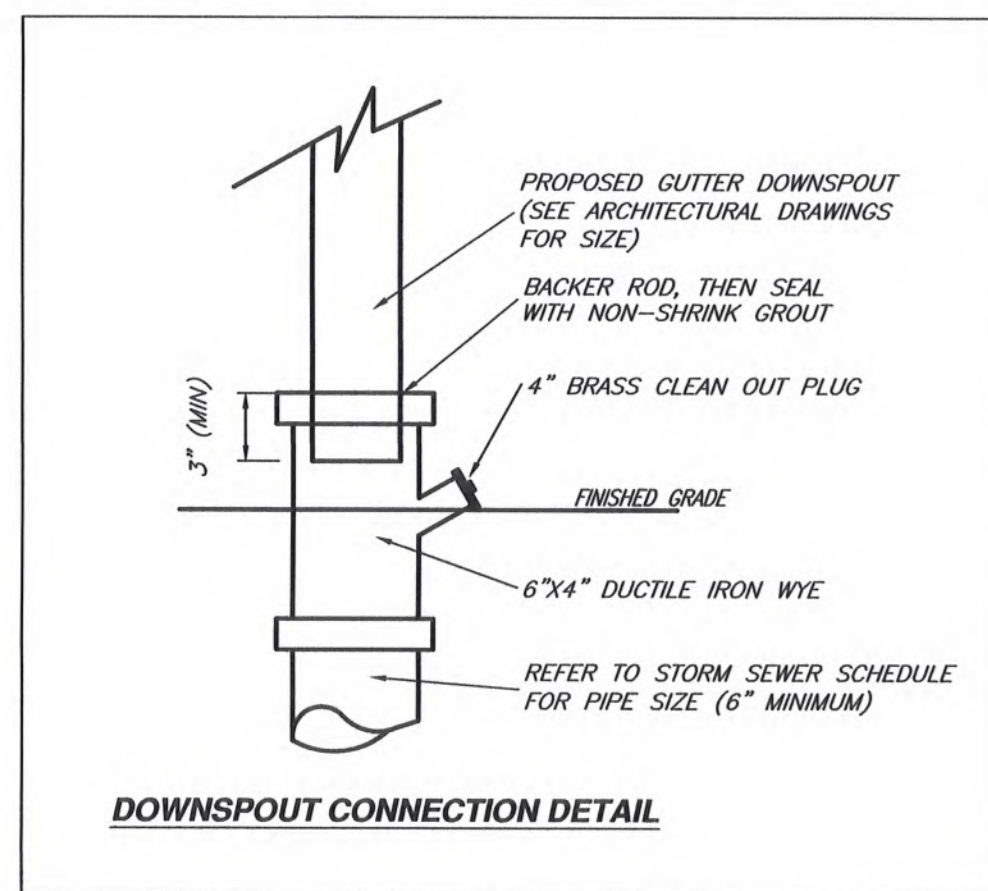
Engineering Design Group EDG
LAND SURVEYING • SITE DESIGN • ENGINEERING

DETAILS OF
HARDIN COUNTY WATER DISTRICT #2
LOT 1C
HUGHES COMMERCE CENTER
SECTION 2

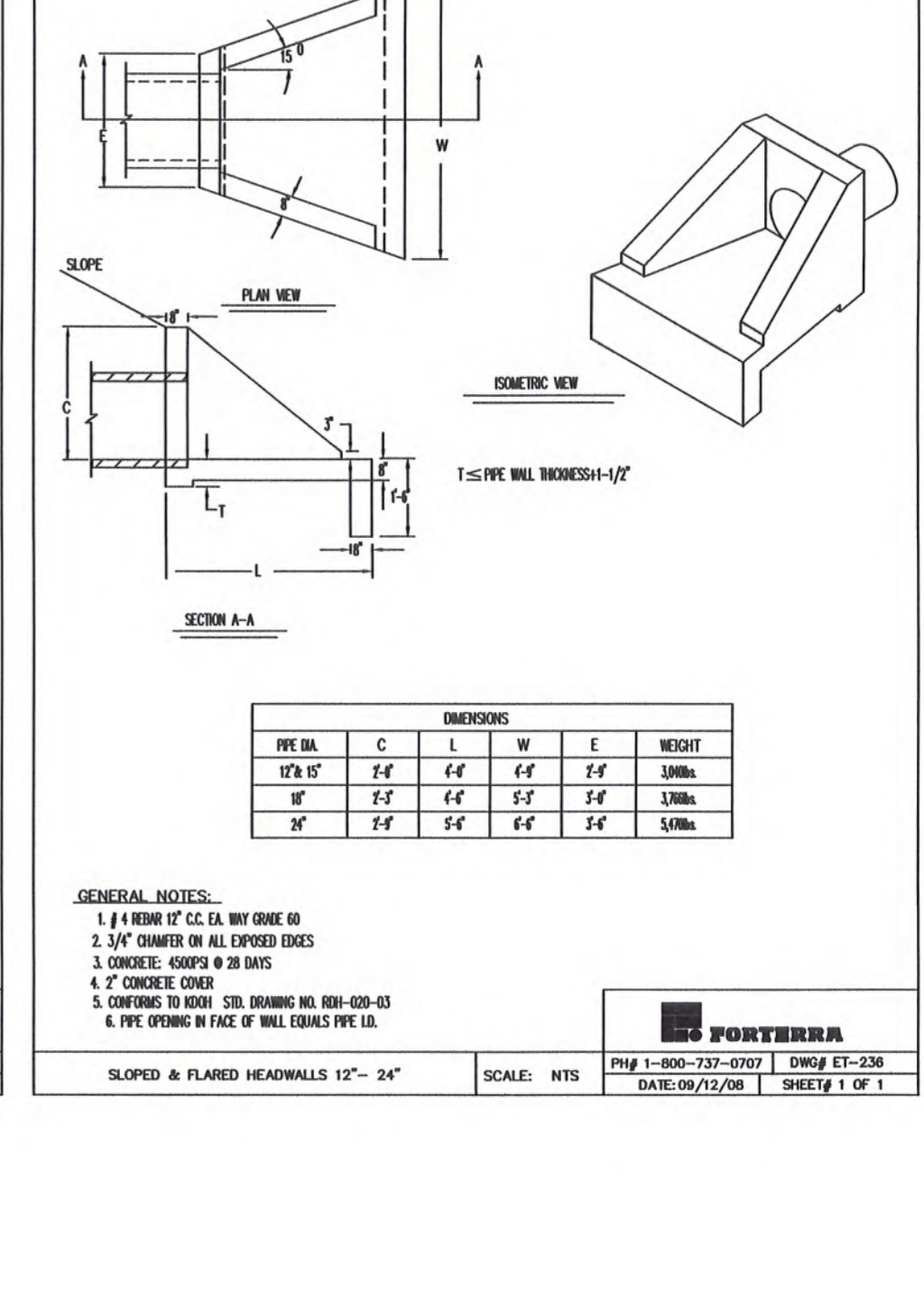
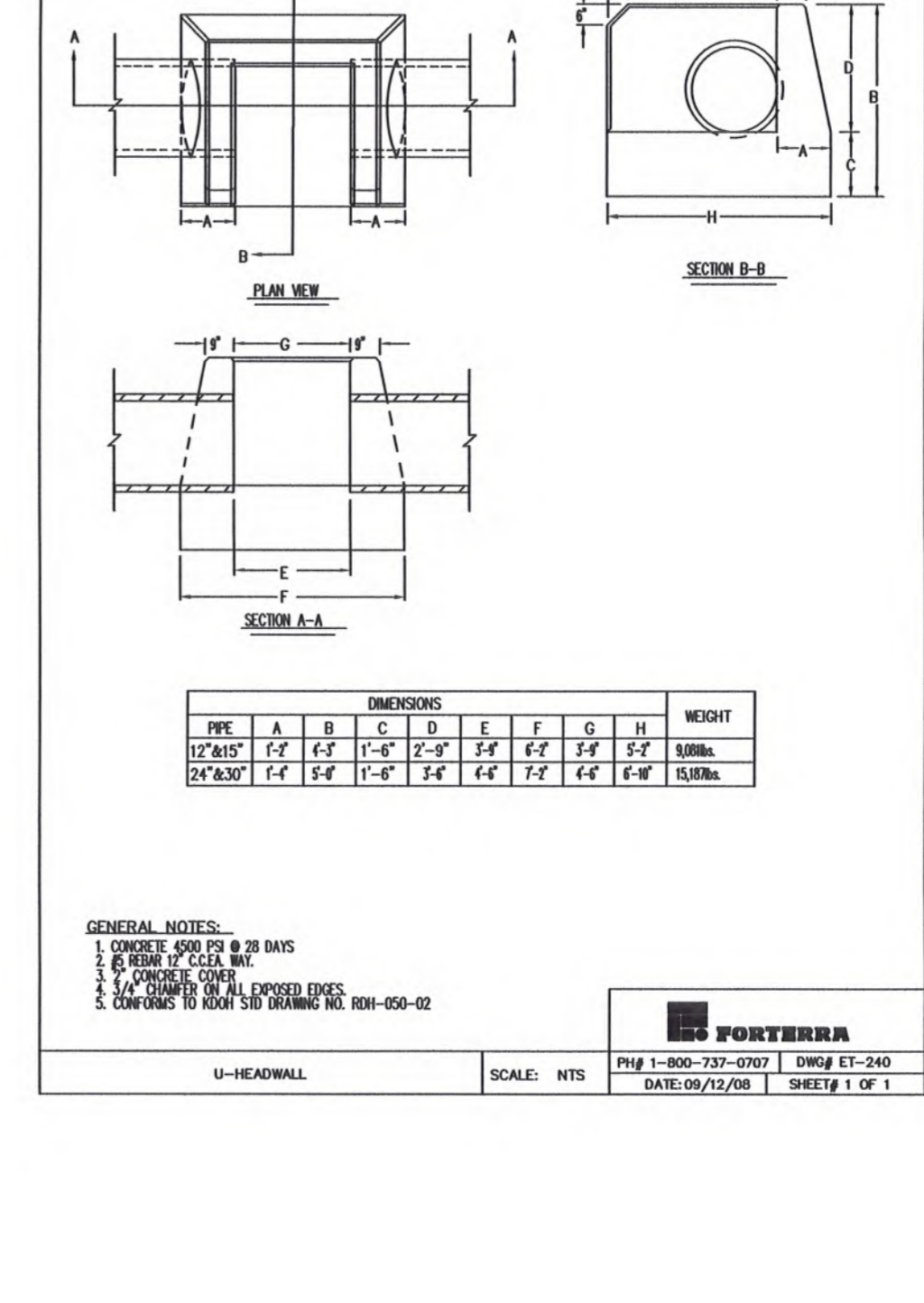
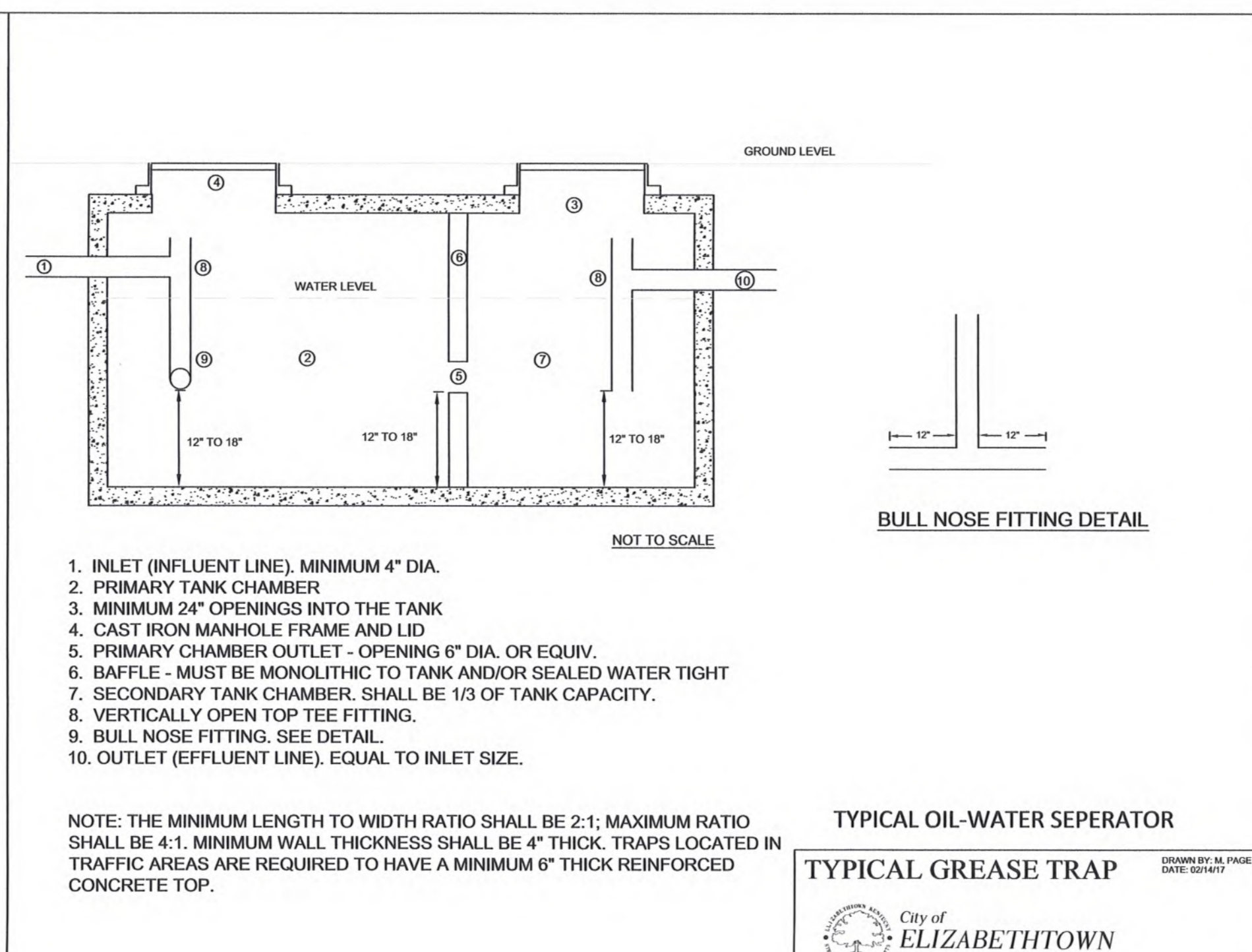
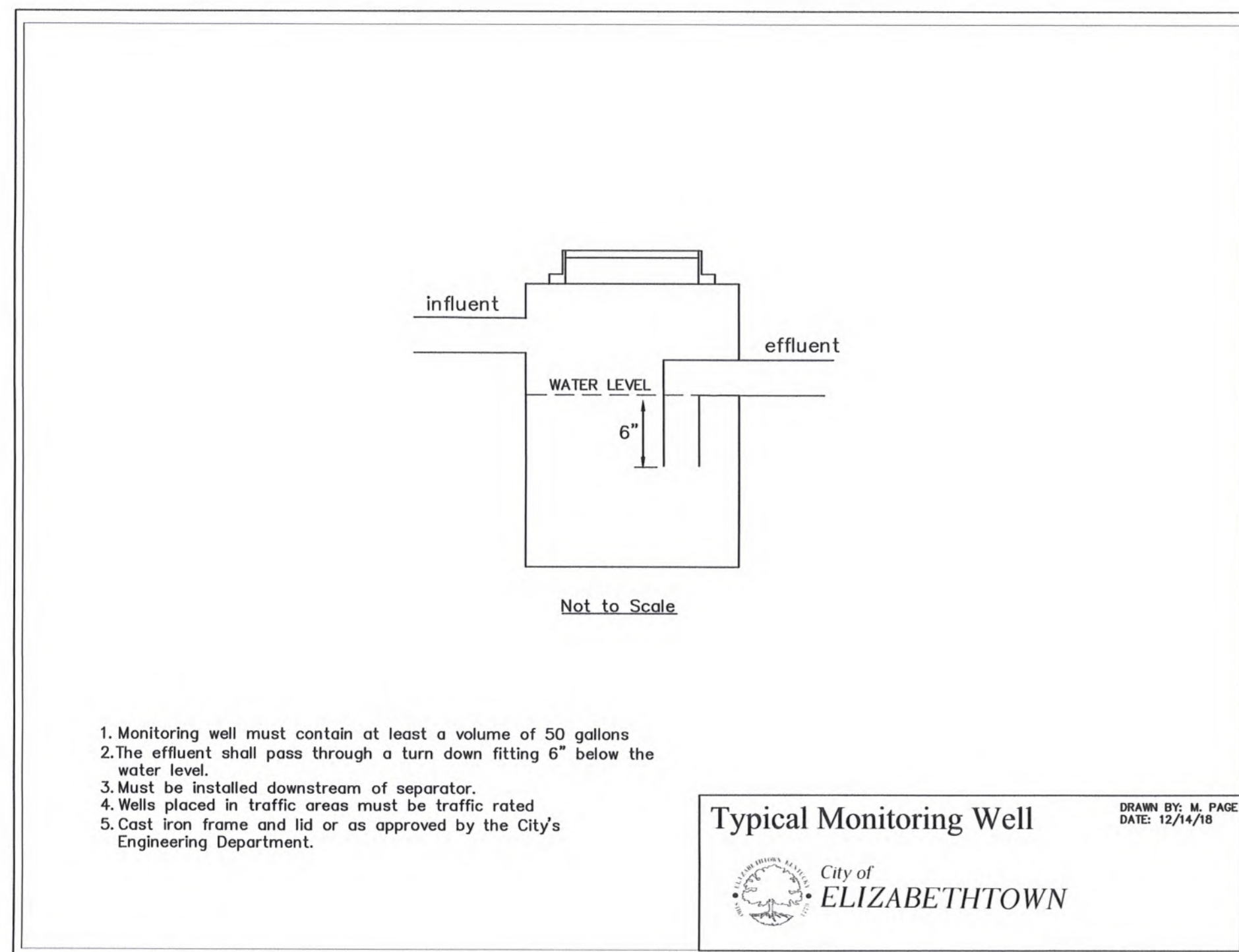
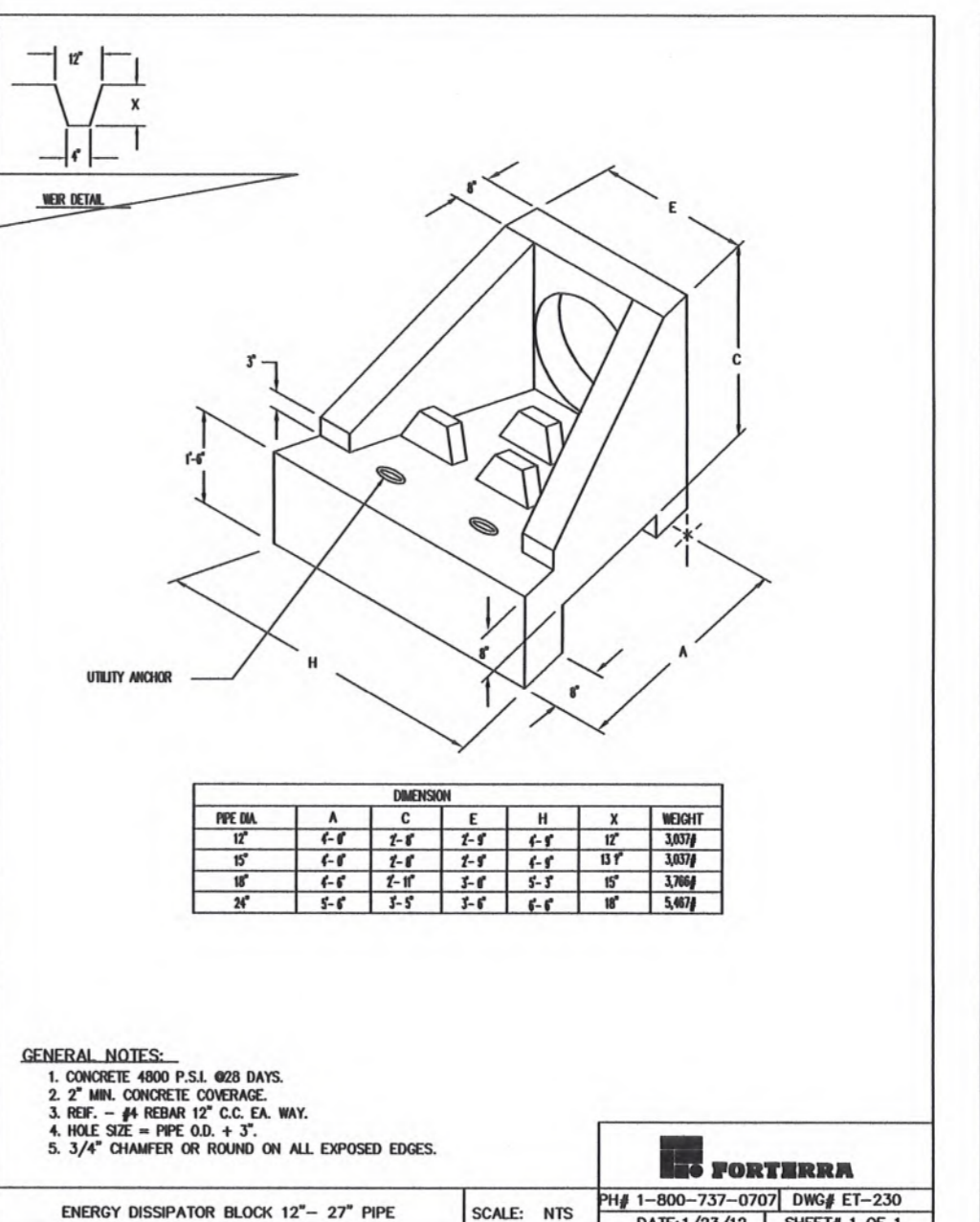
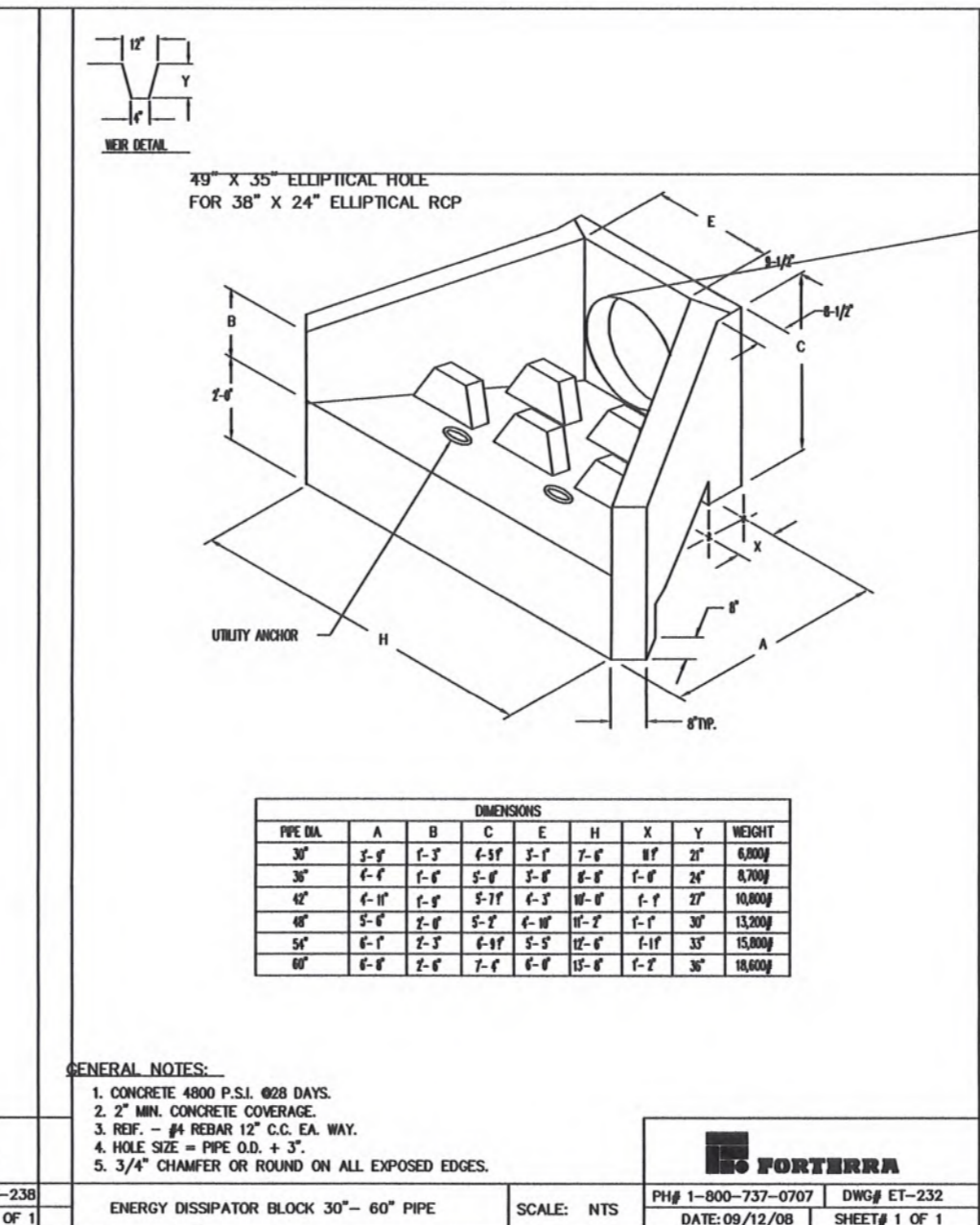
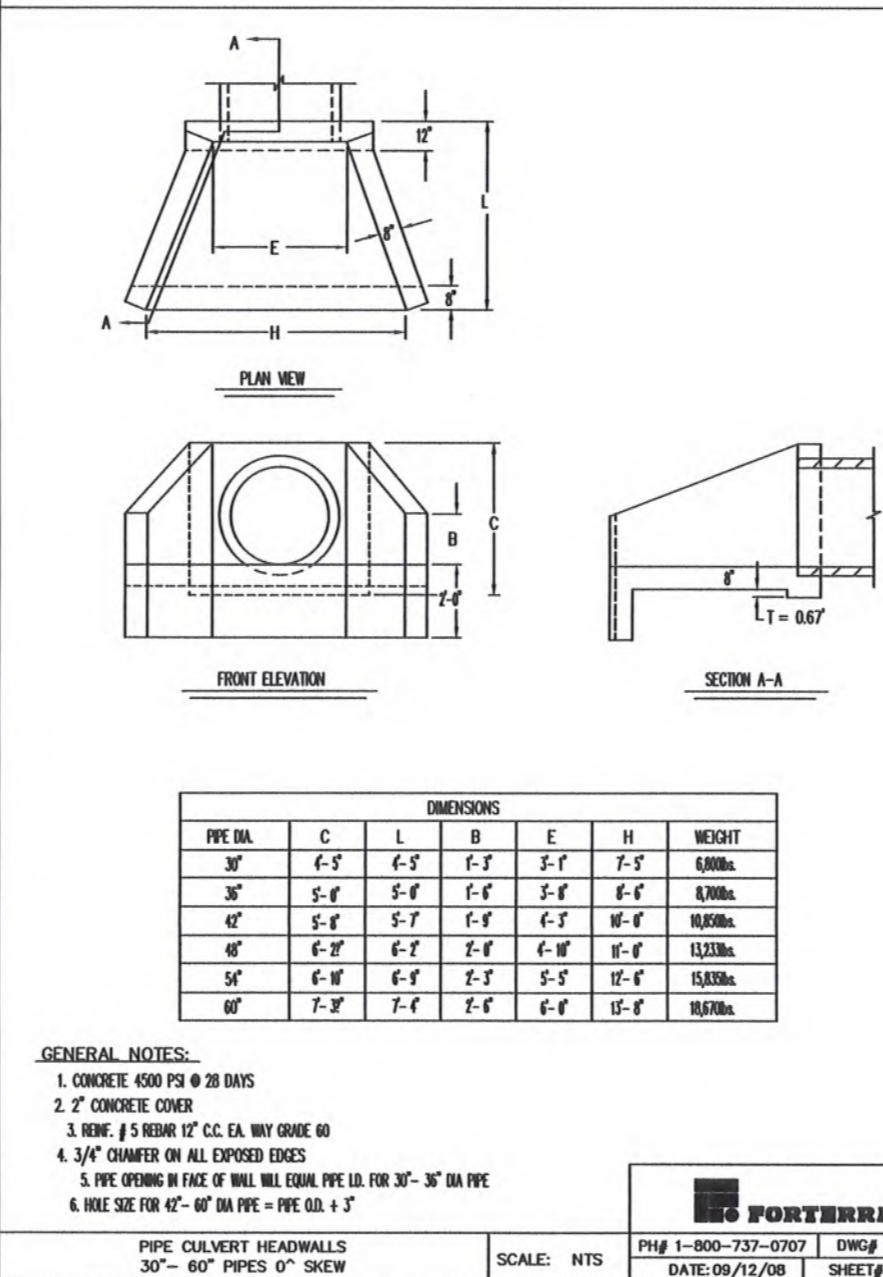
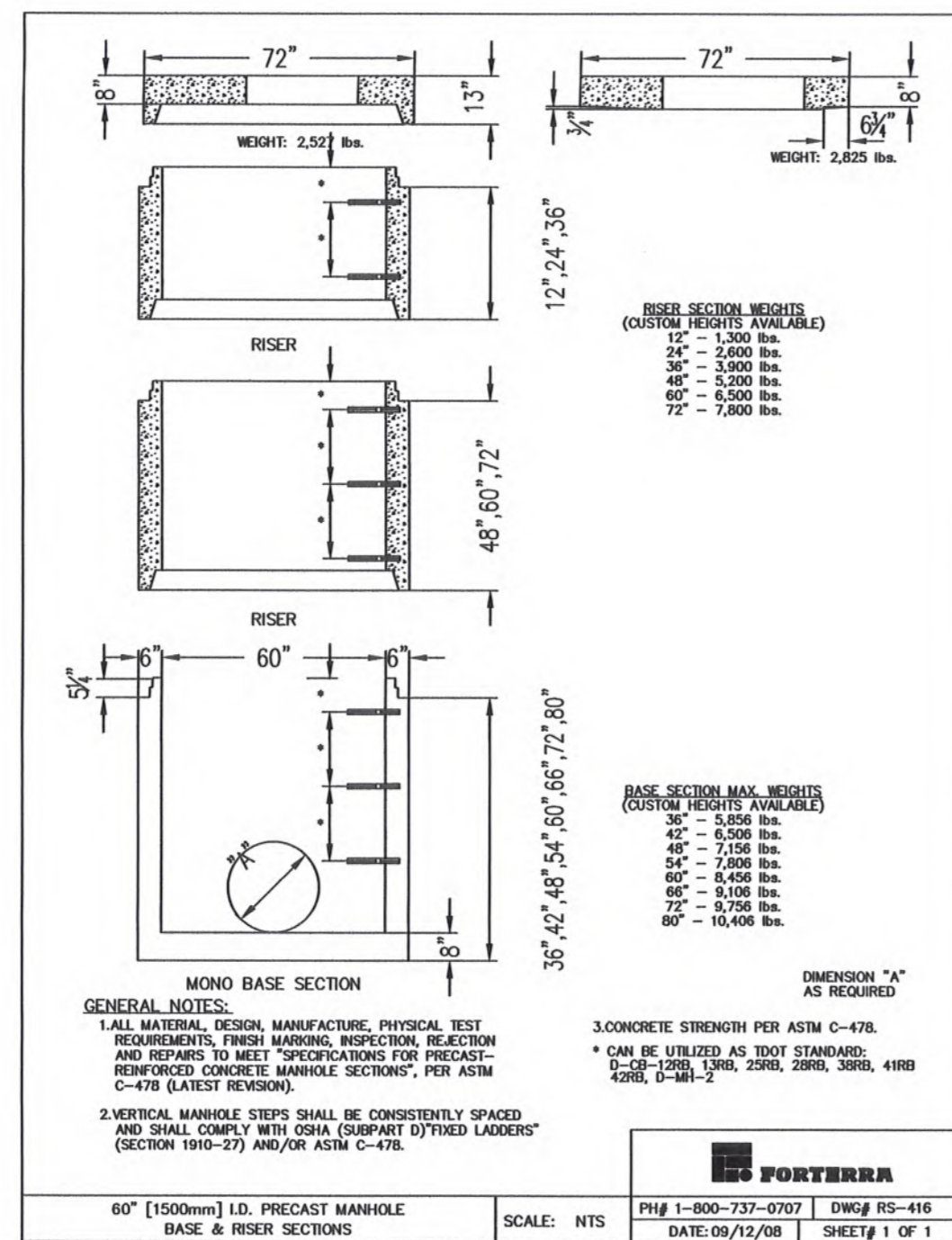
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY

SHT 10 OF 12





DOWNSPOUT CONNECTION DETAIL



CAUTION !!!
PRIOR TO ANY EXCAVATION CONTACT *811* CALL BEFORE U DIG!!!!

projects/HARD-2/NEW OFFICE BLDG OFF RING RD/DETAIL

OWNER:
HARDIN COUNTY WATER DISTRICT #2
360 RING RD
ELIZABETHTOWN KY 42701
(270) 737-1056

DEVELOPER:
JENKINS-ESSEX CONSTRUCTION CO
136 HOWELL DRIVE
ELIZABETHTOWN KY 42701
(270) 737-6113

ENGINEER/SURVEYOR:
ENGINEERING DESIGN GROUP, INC
315 SOUTH MULBERRY ST
P.O. BOX 2484
ELIZABETHTOWN, KY. 42702-2484
(270) 765-9908 FAX
MBILLINGS@ENGDESGRP.COM

Engineering Design Group EDG
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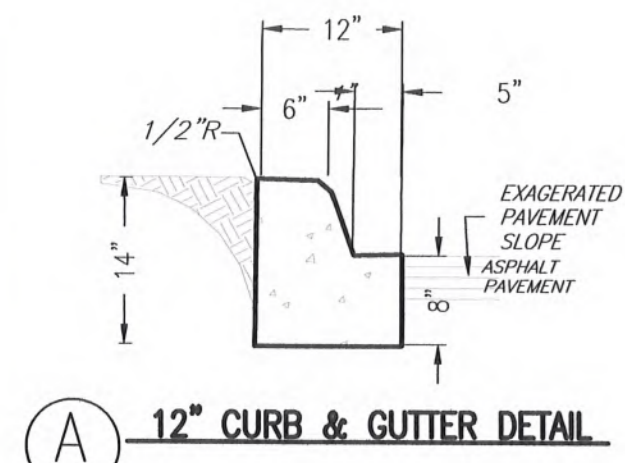
DETAILS OF HARDIN COUNTY WATER DISTRICT #2

LOT 1C HUGHES COMMERCE CENTER SECTION 2

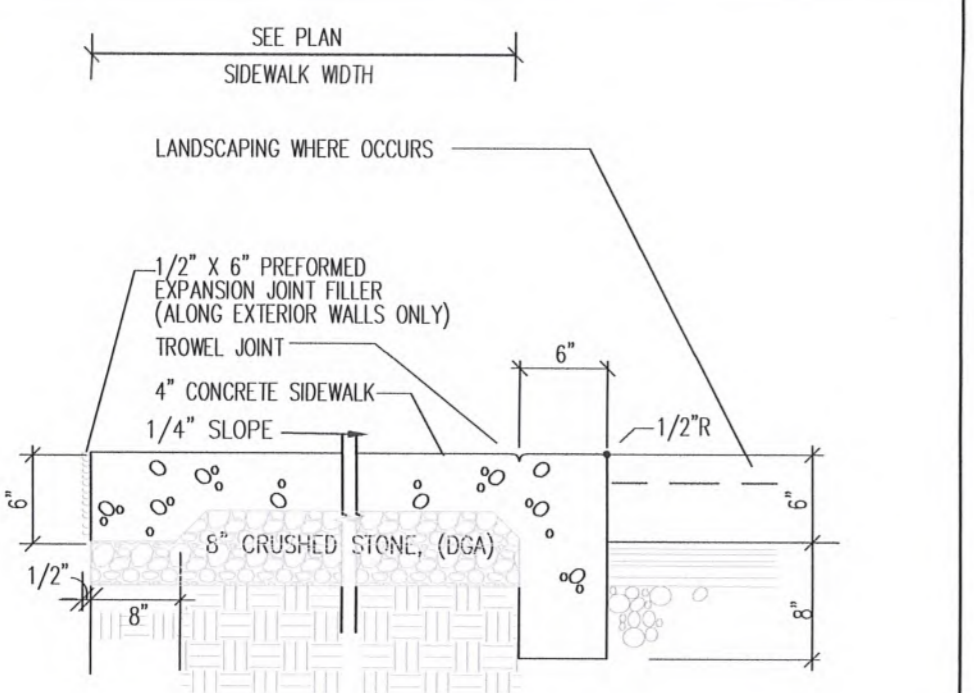
1951 WEST PARK ROAD
ELIZABETHTOWN, KENTUCKY

SHT 11 OF 12

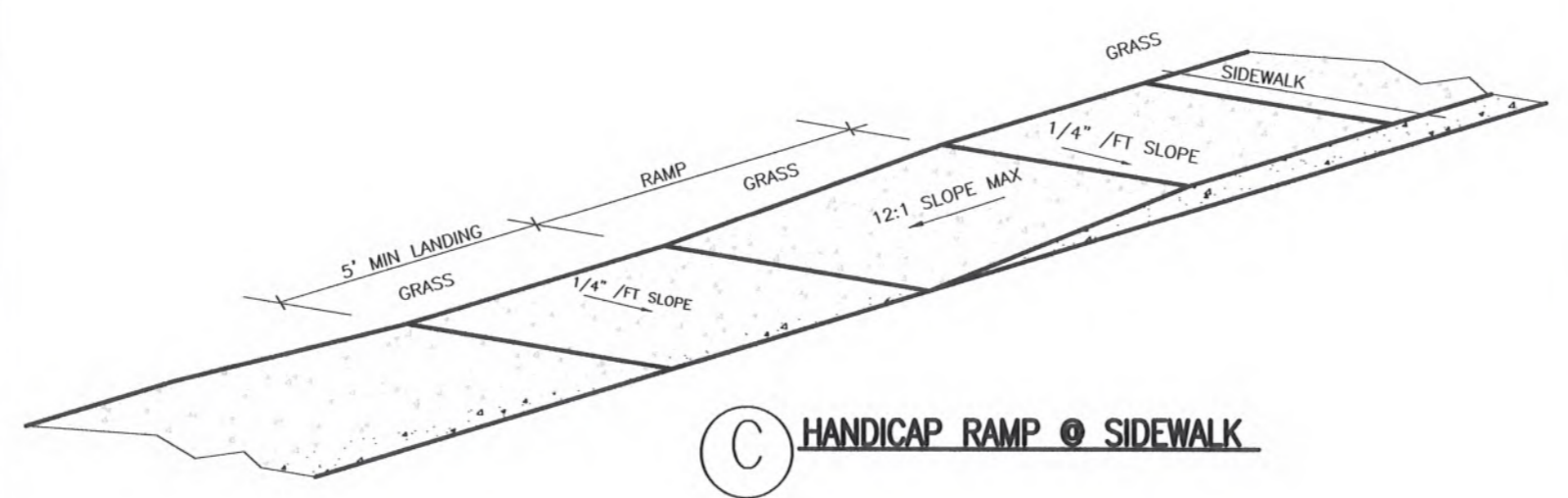
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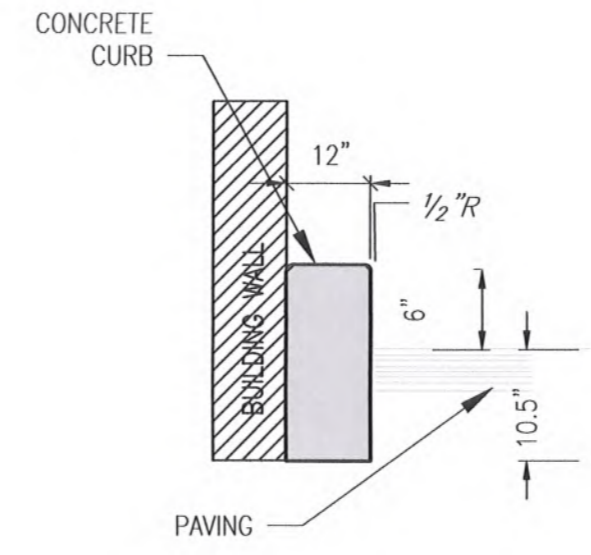
A 12" CURB & GUTTER DETAIL



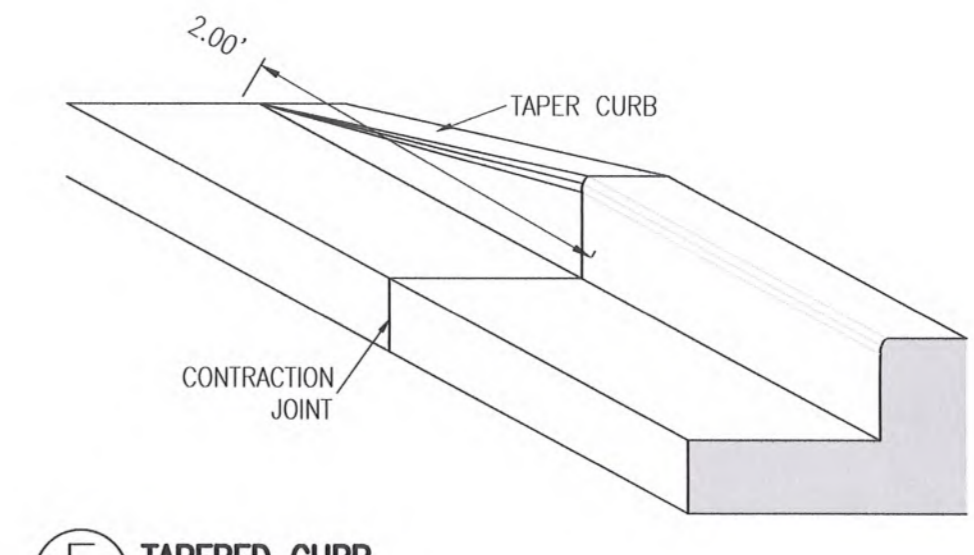
B SIDEWALK DETAIL



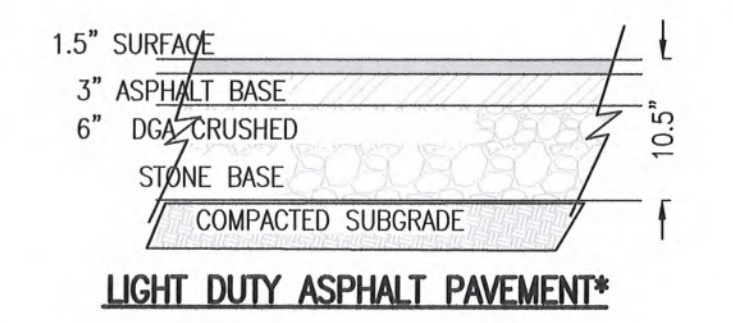
C HANDICAP RAMP @ SIDEWALK



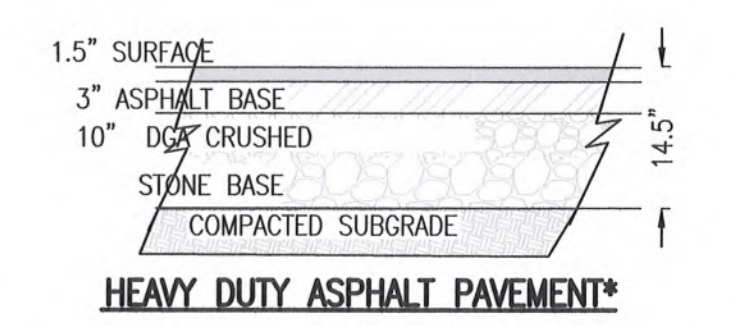
D CURB AT DRIVE THRU



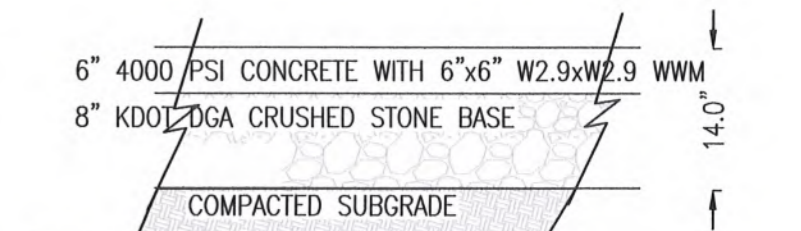
E TAPERED CURB



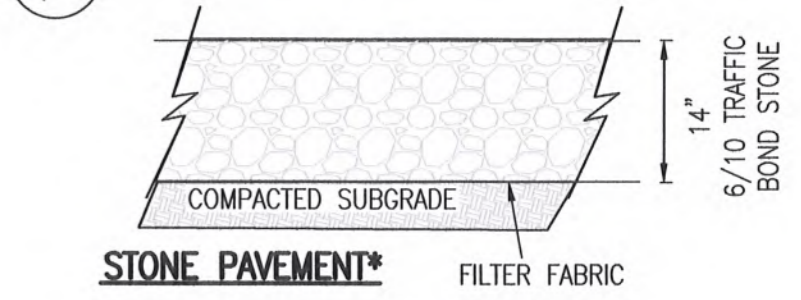
LIGHT DUTY ASPHALT PAVEMENT*



HEAVY DUTY ASPHALT PAVEMENT*

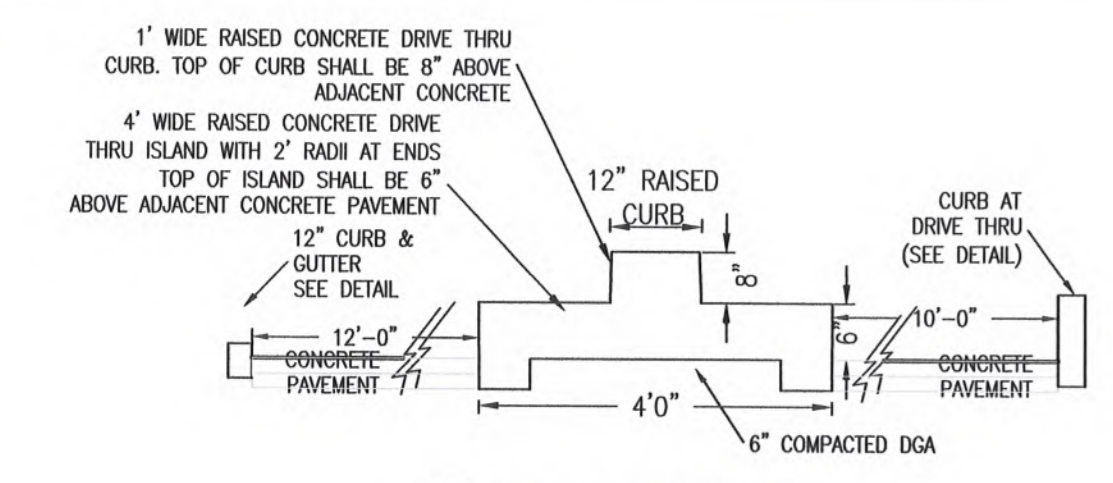


F CONCRETE PAVEMENT*

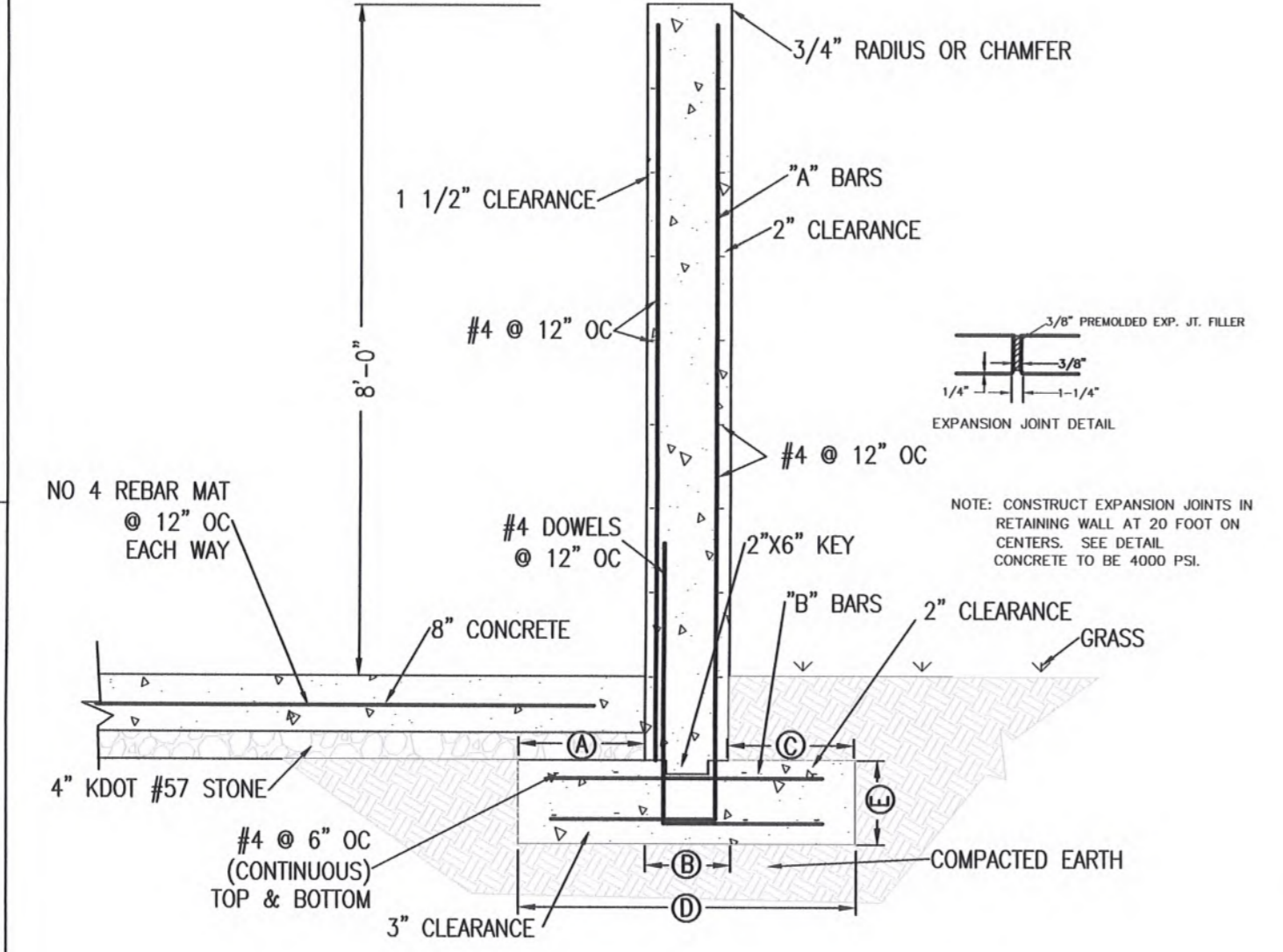


STONE PAVEMENT*

*ALL PAVING MATERIAL SHOULD COMPLY WITH THE CURRENT KENTUCKY DEPARTMENT OF HIGHWAYS SPECIFICATION. THE DGA GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-998)

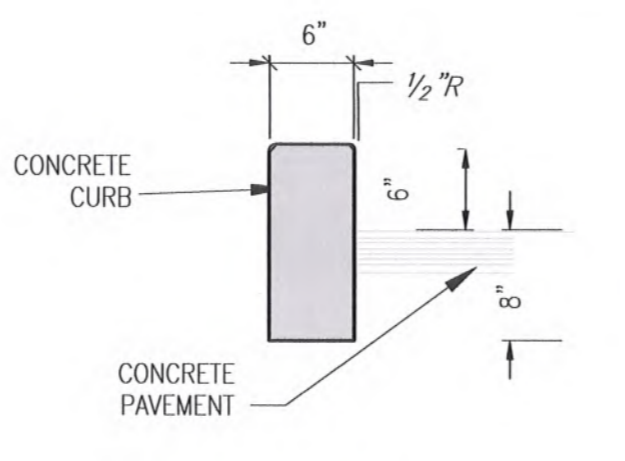


G DRIVE THRU ISLAND

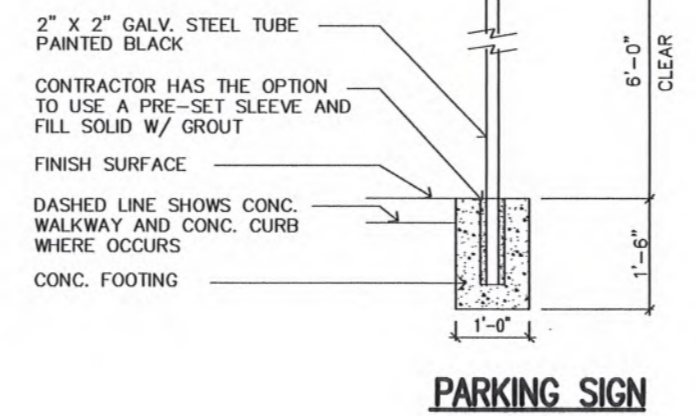


H FREE STANDING WALL DETAIL BULK STORAGE BIN

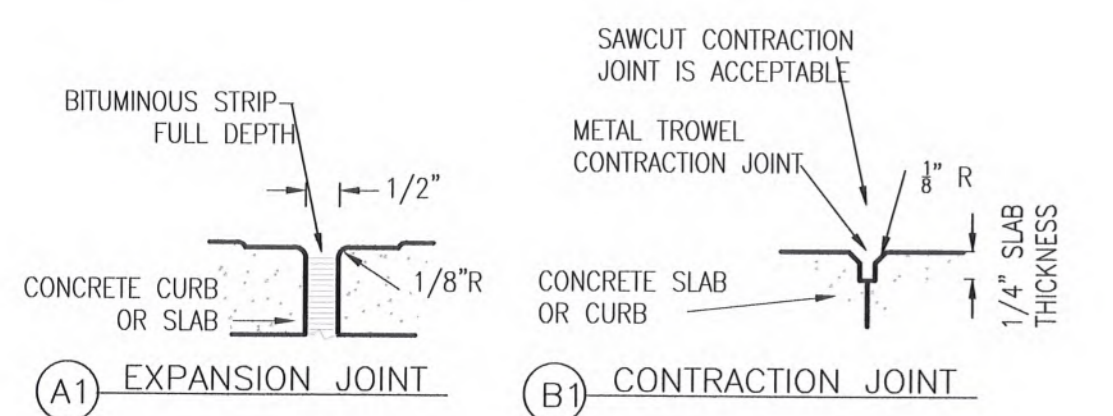
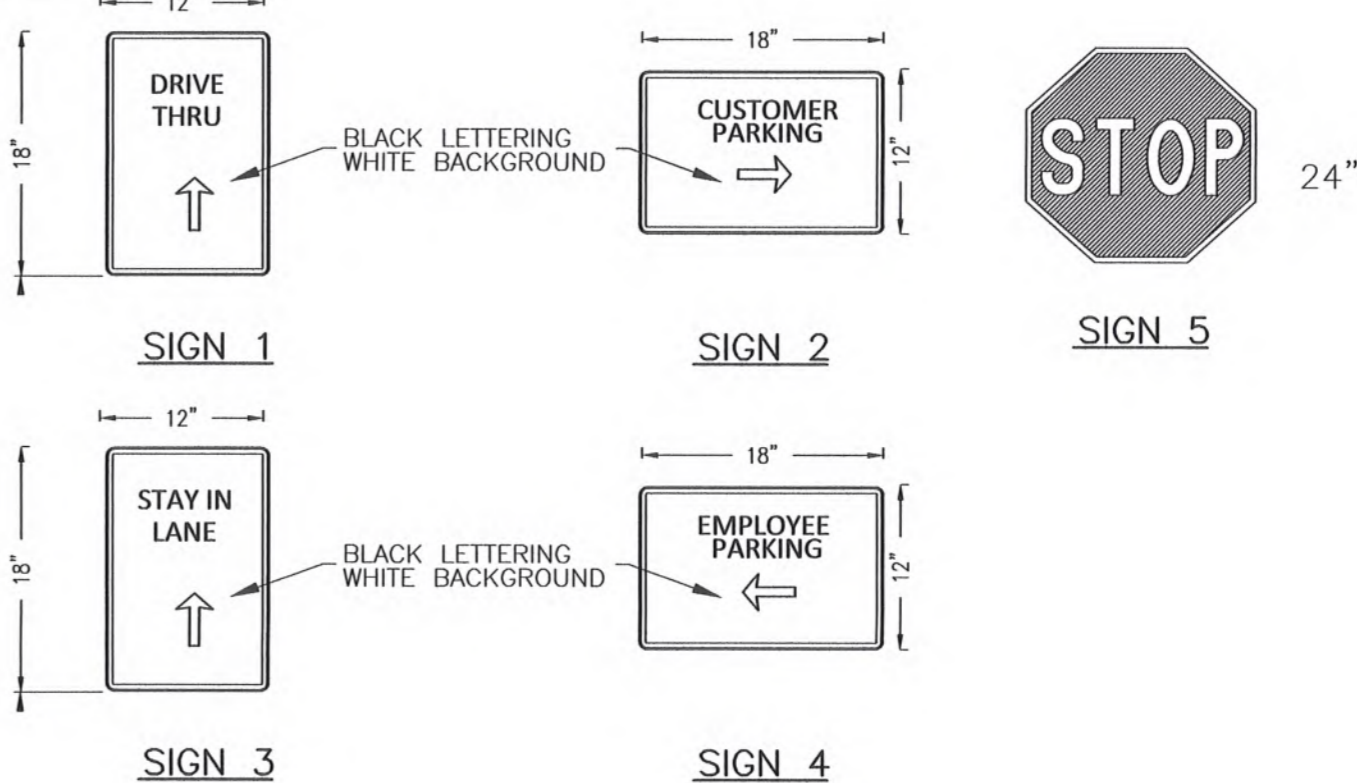
BOTTOM OF FOOTING TO TOP OF WALL	A	B	C	D	E	"A" BARS	"B" BARS
2'-0" TO 8'-0" (TYPE 1)	1'-0"	1'-0"	1'-0"	3'-0"	1'-0"	#512	#412
8'-0" TO 12'-0" (TYPE 2)	1'-6"	1'-0"	1'-6"	4'-0"	1'-0"	#510	#409
12'-0" TO 15' (TYPE 3)	2'-0"	1'-0"	2'-0"	6'-0"	1'-6"	#612	#509



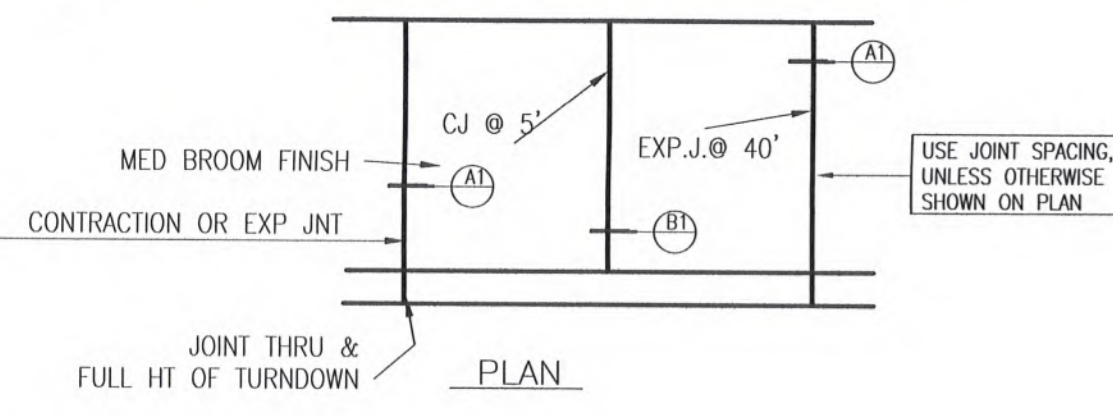
J BARRIER CURB



PARKING SIGN

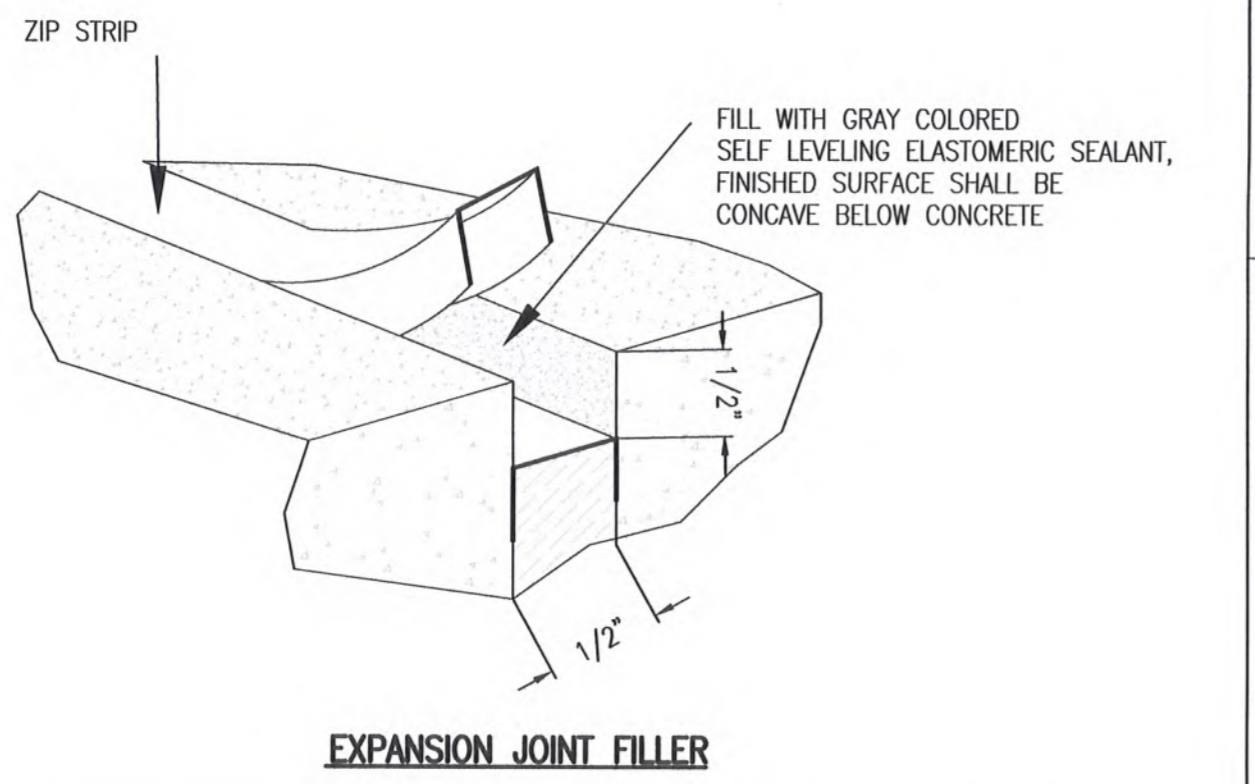


A1 EXPANSION JOINT B1 CONTRACTION JOINT

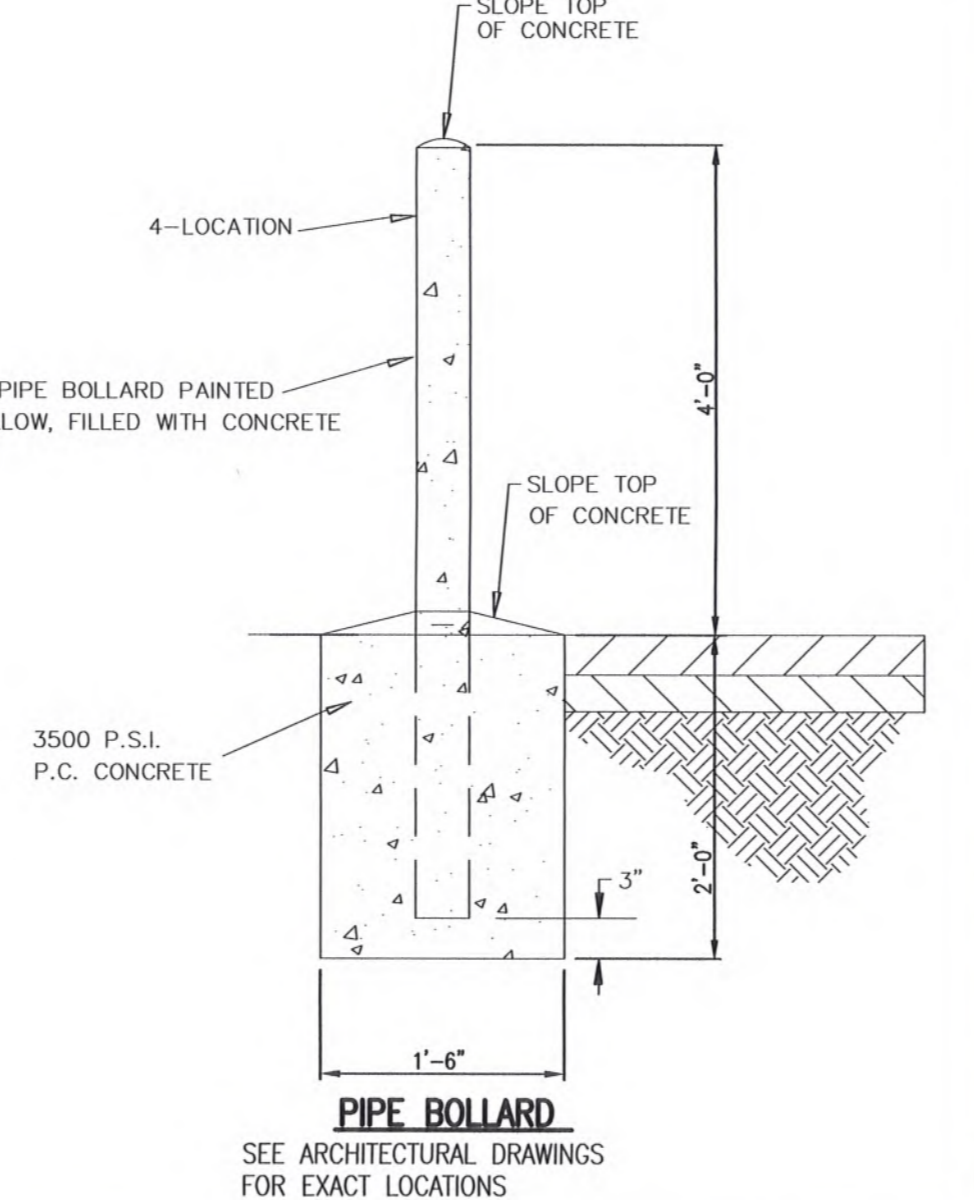


NOTES:
 1. ALL CONCRETE USED FOR SIDEWALKS SHALL HAVE A 28 DAY STRENGTH OF 4000 PSI.
 2. 1/2" x 4" PREMOULDED EXPANSION MATERIALS AROUND MISC STRUCTURES IN WALK. EXPANSION JOINTS MAXIMUM DISTANCE = 40'.
 3. CONSTRUCTION JOINTS @ 5' OC AND AT THE PC & PT OF CURVES IN THE SIDEWALK.

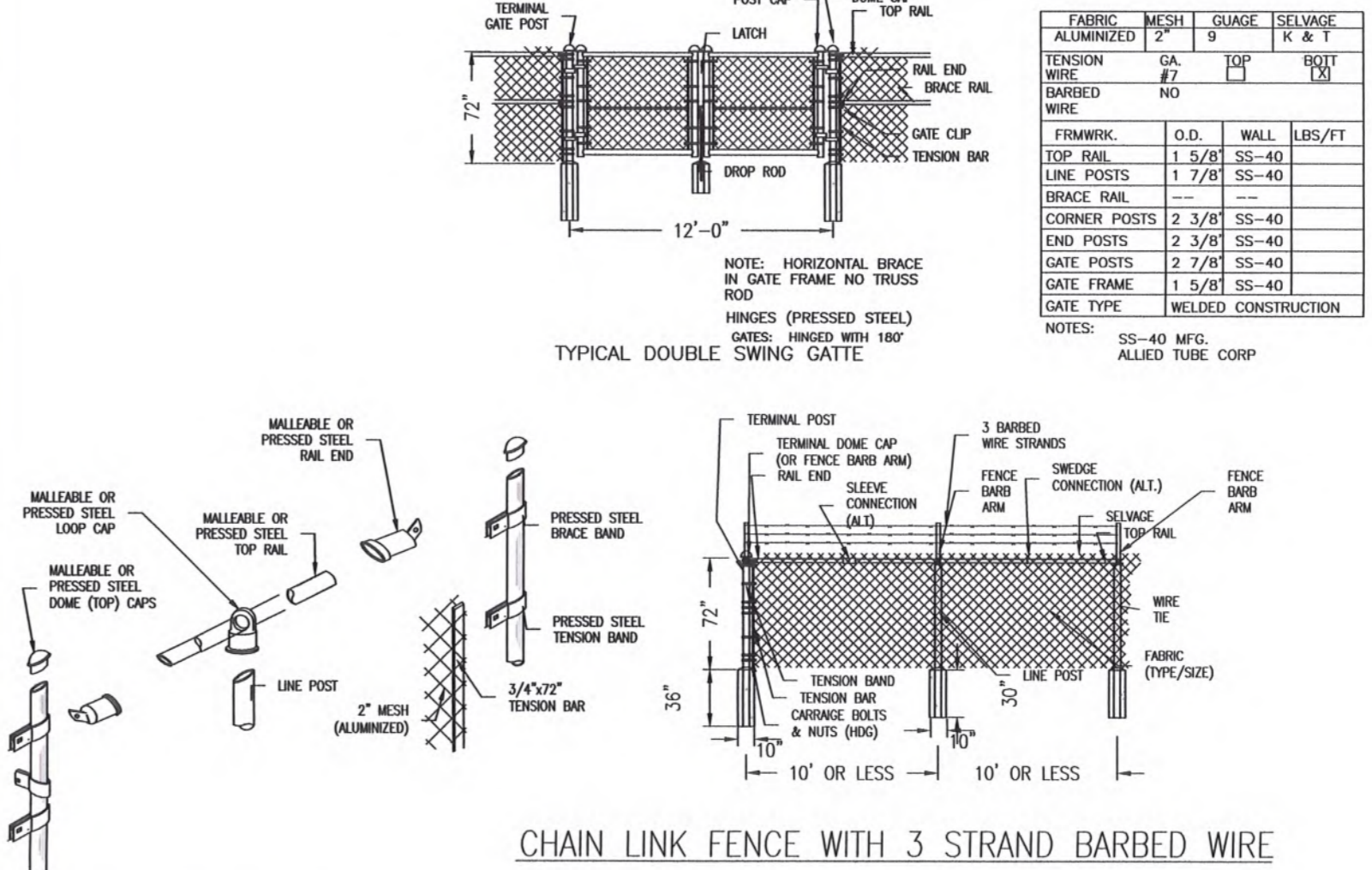
SIDEWALK JOINT DETAIL



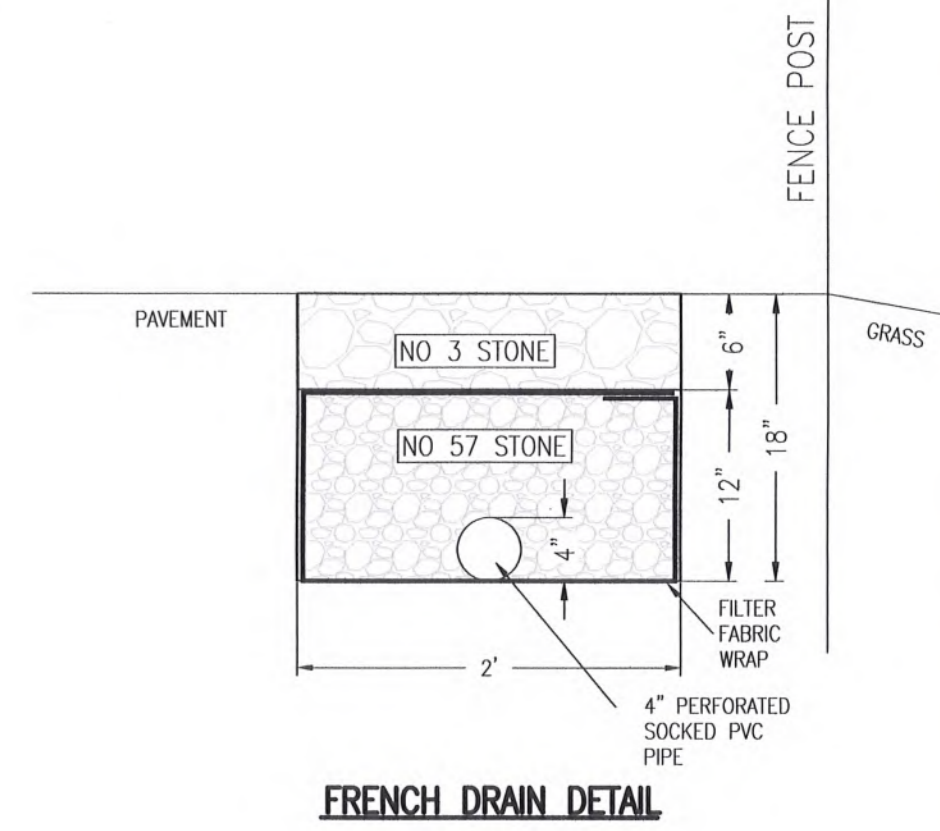
EXPANSION JOINT FILLER



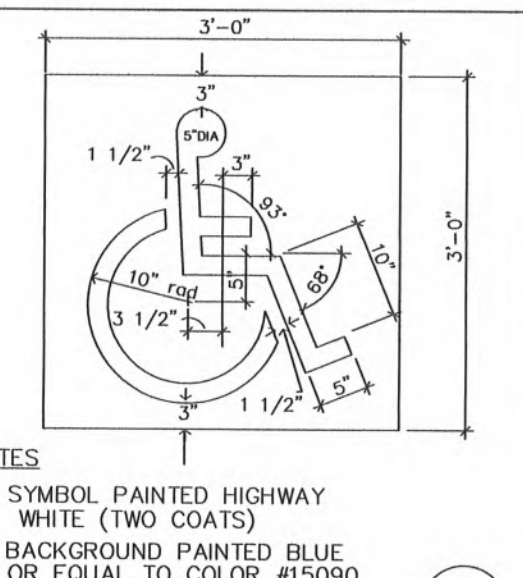
PIPE BOLLARD



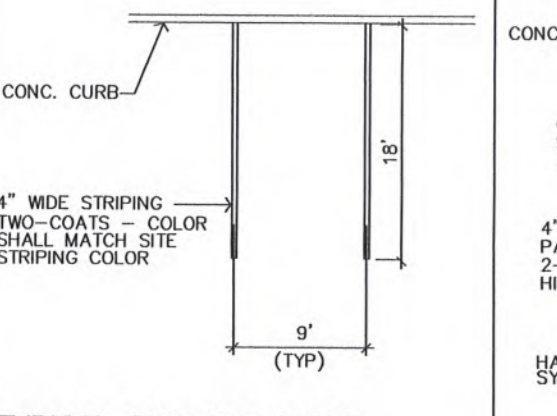
CHAIN LINK FENCE WITH 3 STRAND BARBED WIRE



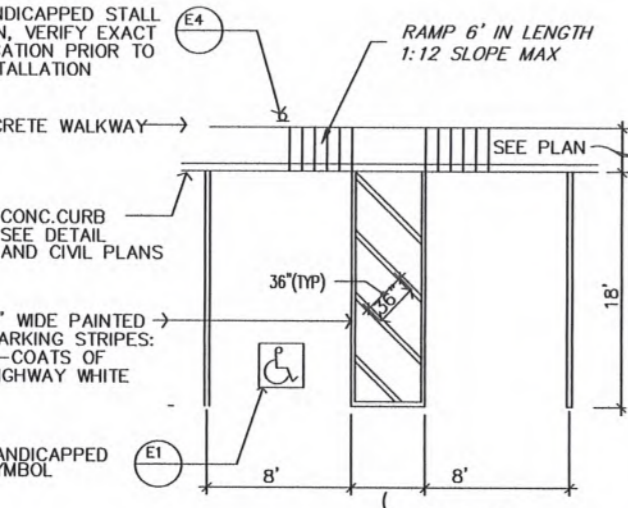
FRENCH DRAIN DETAIL



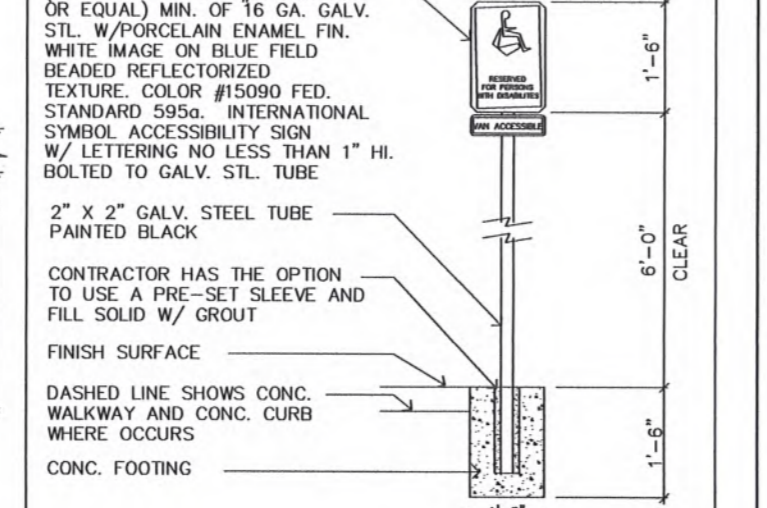
DISABLED PARKING SYMBOL



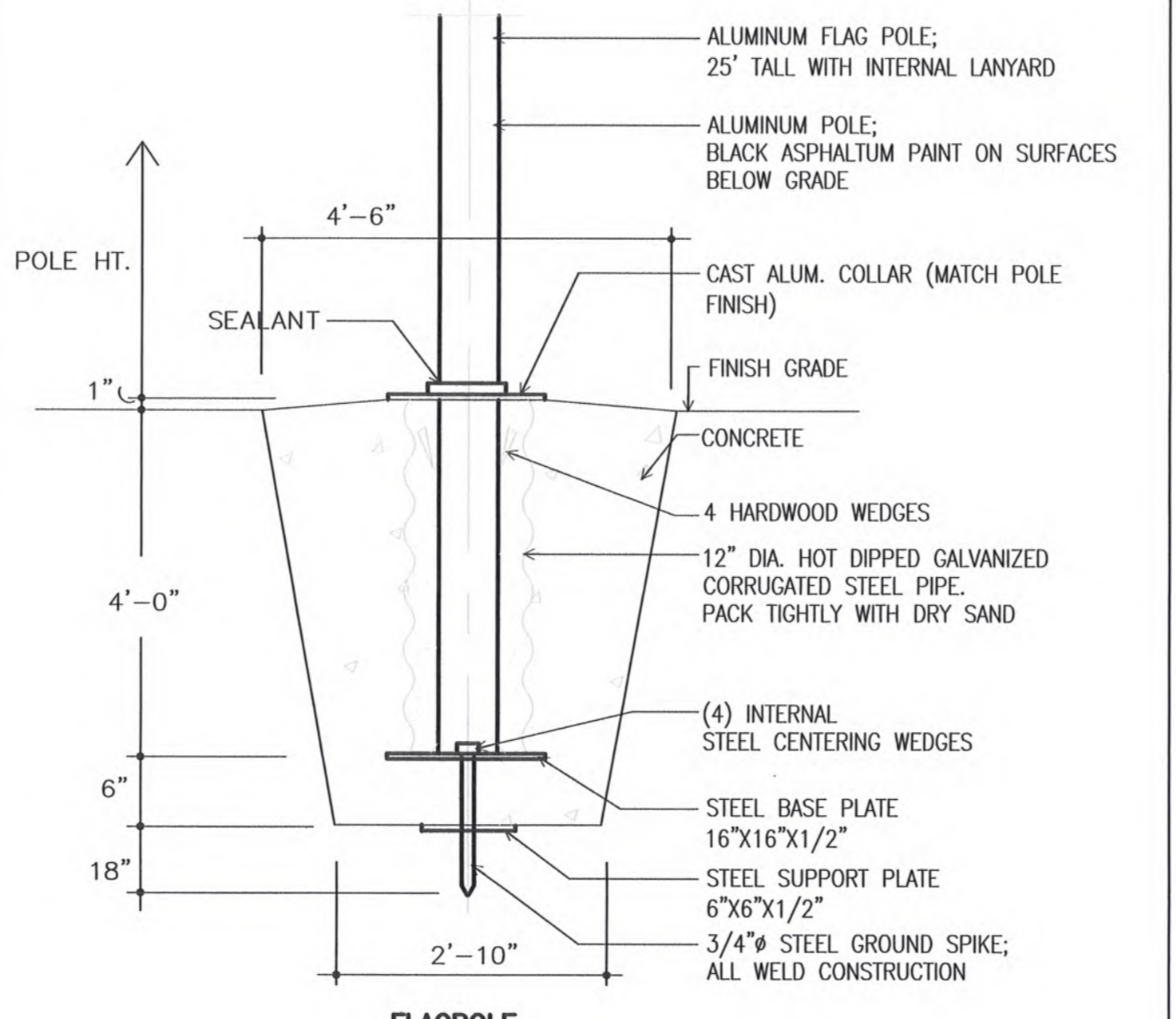
TYPICAL PARKING STALL



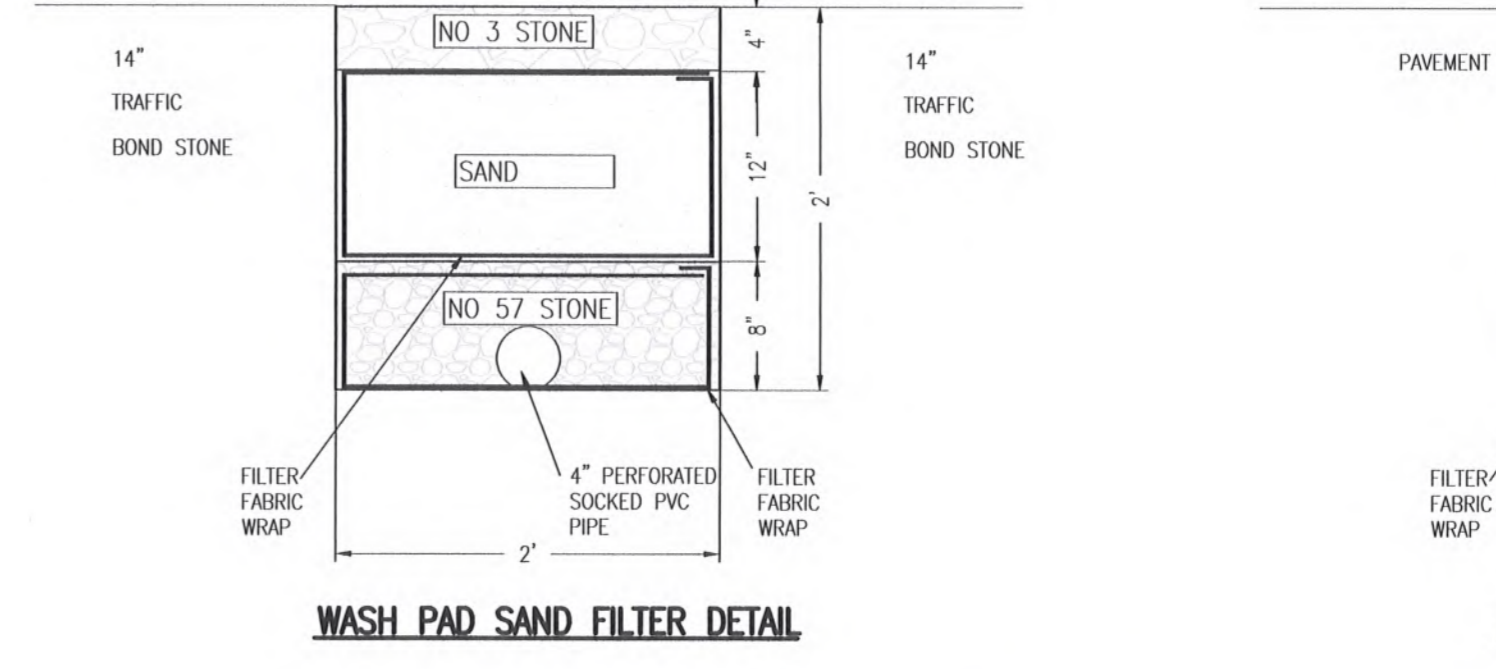
HANDICAPPED PARKING STALL



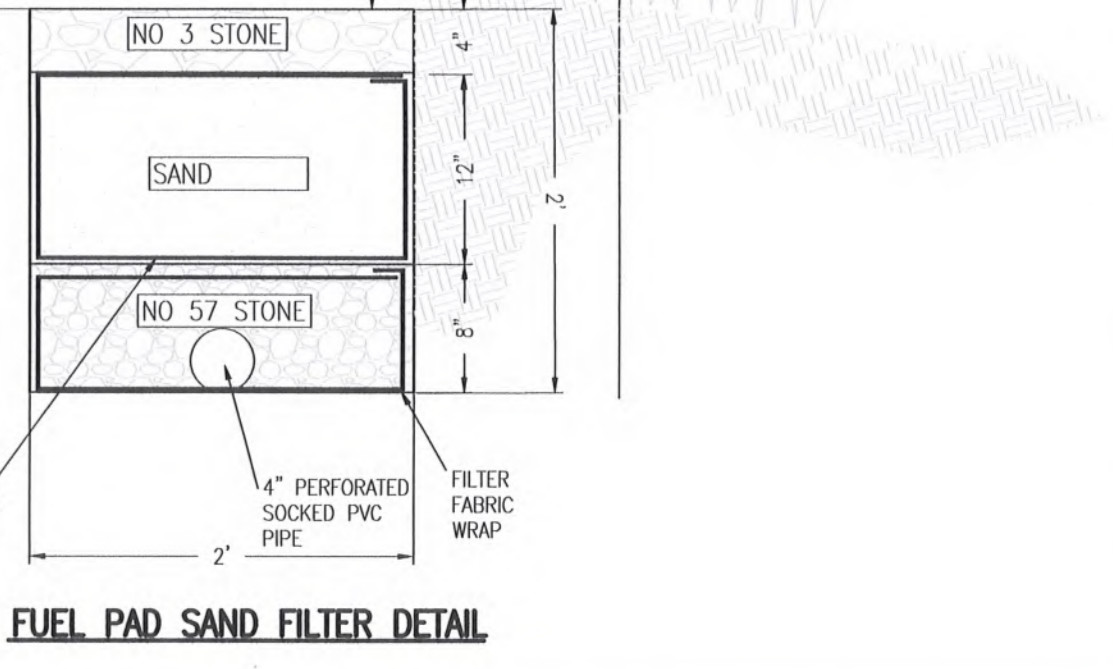
DISABLED PARKING SIGN



FLAGPOLE



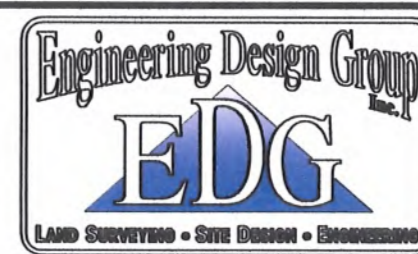
WASH PAD SAND FILTER DETAIL



FUEL PAD SAND FILTER DETAIL

OWNER:
 HARDIN COUNTY WATER DISTRICT #2
 360 RING RD
 ELIZABETHTOWN KY 42701
 (270) 737-1056

DEVELOPER:
 JENKINS-ESSEX CONSTRUCTION CO
 136 HOWELL DRIVE
 ELIZABETHTOWN KY 42701
 (270) 765-6113



DETAILS
 OF
HARDIN COUNTY WATER DISTRICT #2
 LOT 1C
 HUGHES COMMERCE CENTER
 SECTION 2
 1951 WEST PARK ROAD
 ELIZABETHTOWN, KENTUCKY



DATE: JULY 21, 2020

SCALE: 1" = 12'

SHT 12 OF 12