

Warren County Water District
Sewer Division
Warren County, Kentucky

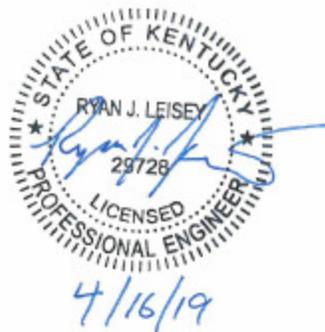
FINAL ENGINEERING REPORT

**PLUM SPRINGS AREA SEWER
REHABILITATION**



Warren County
Water District

April 16th, 2019



Prepared by
Engineering Staff
Warren County Water District

Contents

Introduction	3
Summary and Conclusions.....	4
Project Description.....	5
Result of Bids	5
Project Budget (As-Bid w/ Adjustments)	5
Household Income Information.....	8
Financial Considerations and Proposed Sewer Rates	8
Schedule of Proposed Monthly Sewer Rates	10
Proforma Adjustment	11
Appendix A – Tabulations of Bids	
Appendix B – Proposals of Low Bidders	
Appendix C – Treated Sewage Adjustment	
Appendix D – Forecast of Water Usage and Income	
Exhibit A – Plum Springs Area Sewer Rehab Proposed Improvements	

Introduction

Warren County Water District, Sewer Division (The District) provides sewer collections service to Warren County, KY and a portion of the City of Bowling Green outside the service area of Bowling Green Municipal Utilities. In addition, The District serves the 6th-class cities of Plum Springs, Oakland, and Smiths Grove, located within Warren County.

The District's existing sewer system currently includes approximately 181 miles of sewer lines with gravity sewers as large as 24 inches in diameter and 65 pumping stations to transport wastewater where gravity sewers are not practical. There are approximately 6,400 residential and 600 commercial sewer customers. These customers generate an average wastewater flow of approximately 2,300,000 gallons per day (gpd). The District's wastewater is discharged into the Bowling Green Municipal Utilities' (BGMU) sewer system at 6 separate points of connection for transport to the wastewater treatment plant (WWTP). BGMU's WWTP has a capacity of 12.0 million gallons per day (MGD) with provisions to increase the capacity to 15.0 MGD in the future. The WWTP has ample capacity to receive wastewater from existing customers.

The portion of the gravity sewer to be rehabilitated as part of this project was installed in the late 1960's and early 1970's. The gravity sewer was constructed of concrete and clay pipe. The concrete pipe has deteriorated due to exposure to hydrogen-sulfide gas and the clay pipe has deteriorated due to cracking and root intrusion. These sections of gravity sewer have reached the end of their useful life. This project will rehabilitate the sewer in order to maintain service to the existing customers.

The Sewer Division is financially sound but has recently experienced consistent negative net income months due to the effects of increased inflow and infiltration from deteriorating infrastructure.

The District has applied to Rural Development (RD) for funds to rehabilitate the portion of the sewer in the 6th-class City of Plum Springs in order to maintain service to existing customers. Flows from approximately 600 acres of developed land in Warren County pass through this section of gravity sewer. The sewer from Plum Springs and the above-mentioned portion of Warren County flows into another section of gravity sewer, that needs rehabilitation, within the city limits of Bowling Green. The portion of the project in the City of Bowling Green will be financed by the Kentucky Infrastructure Authority (KIA). This project will be designed and built in compliance with the American Iron and Steel (AIS) provision of the Title VII Consolidated Appropriations Act of 2017. The information provided in this report more fully describes the proposed project, the need for the improvements, and supplies appropriate financial summaries.

Summary and Conclusions

The sewer rehabilitation project as illustrated on the enclosed Exhibit A is greatly needed to maintain economical sewer service to a large portion of Warren County. The District's wholesale waste treatment supplier, BGMU, recently implemented a wholesale rate increase of 34.6 cents per thousand gallons. This wholesale rate increase calculates to a retail, pass through rate increase of 28.0 cents per thousand gallons. Please see the Treated Sewer Adjustment calculations included as Appendix C. The wholesale rate has been incorporated into the Proforma as a separate column for clarity. The District will implement both rate increases simultaneously to avoid customer confusion. The proposed rehabilitation project is economically feasible with a

11.5 percent average rate increase, a \$0.28 per thousand gallons pass through wholesale rate increase, a \$645,000 loan from RD, a \$2,000,000 loan from KIA, and \$411,000 of District funds.

Project Description

The proposed project consists of the utilization of Cured-In-Place Pipe (CIPP) to rehabilitate the existing gravity sewer. 3,650 feet of 21" concrete gravity sewer, 1,356 feet of 12" clay gravity sewer, and 2,000 feet of 8" clay gravity sewer will be rehabilitated in Plum Springs. 2,770 feet of 24", an additional 9,110 feet of 21", 1,350 feet of 15", 1,750 feet of 12", and 16,000 feet of 8" will be rehabilitated in the surrounding area. The existing services will be grouted to prevent infiltration of ground water into the sewer system. The bid form includes unit prices for point repairs, manhole rehabilitation, and manhole coating.

Results of Bids

On March 19th, 2019 Warren County Water District received bids for the Plum Springs Sewer Rehabilitation project. The low bid was approximately \$243,000 less than the original project budget. Additional footage of 8" and 12" pipe and additional manholes will be rehabilitated with the additional available funds. A summary of the bid tabulation is attached as Appendix A. The proposal of the low bidder is attached as Appendix B.

Project Budget

The revised Project Budget, as-bid with adjustments, is presented on the next two pages. The quantities of 8" and 12" line rehabilitation and manhole lining were adjusted to balance the budget.

**PLUM SPRINGS AREA SEWER REHABILITATION
AS-BID, WITH ADJUSTMENTS
PROJECT BUDGET**

PROJECT COSTS:

1. Construction				
a. Plum Springs Area	\$	563,000		
b. Inside City Limits	\$	1,931,000		
			\$	2,494,000
2. Engineering				
a. Design & General Engineering During Construction	\$	121,000		
b. Inspection	\$	80,000		
			\$	201,000
3. Administrative Expenses			\$	20,000
4. Easement and Site Acquisition			\$	10,000
5. Legal Costs			\$	11,600
6. Interest During Construction			\$	70,000
7. Contingency			\$	249,400
TOTAL PROJECT COST			\$	3,056,000

PROJECT FUNDING:

1. RD Loan				
			\$	645,000
2. KIA Loan			\$	2,000,000
3. District Funds			\$	411,000
TOTAL FUNDING			\$	3,056,000

**PLUM SPRINGS AREA SEWER REHABILITATION
AS-BID, WITH ADJUSTMENTS
CONSTRUCTION BUDGET**

ITEM	DESCRIPTION	QTY.	UNITS	UNIT PRICE	TOTAL
PLUM SPRINGS					
1	21" CIPP	3,650	LF	\$75.30	\$274,845.00
2	12" CIPP	1,280	LF	\$26.15	\$33,472.00
3	8" CIPP	1,990	LF	\$22.05	\$43,879.50
4	Urethane Manhole Lining	** 324	VF	\$236.50	\$76,626.00
5	Chemical Grouted Lateral Connections	54	EA	\$715.00	\$38,610.00
5A	Additional Gallons of Grout >5 Gallons	** 36	GAL	\$14.30	\$514.80
6	21" Sewer Main Point Repair < 10'	2	EA	\$8,250.00	\$16,500.00
7	21" Sewer Main Point Repair > 10'	2	EA	\$11,000.00	\$22,000.00
8	12" Sewer Main Point Repair < 10'	2	EA	\$4,400.00	\$8,800.00
9	12" Sewer Main Point Repair > 10'	2	EA	\$5,500.00	\$11,000.00
10	8" Sewer Main Point Repair < 10'	2	EA	\$2,750.00	\$5,500.00
11	8" Sewer Main Point Repair > 10'	2	EA	\$3,520.00	\$7,040.00
12	Lateral Point Repair < 10'	4	EA	\$2,750.00	\$11,000.00
13	Lateral Point Repair > 10'	4	EA	\$3,300.00	\$13,200.00
Plum Springs Sub-Total					<u>\$563,000.00</u>
BOWLING GREEN					
14	Mobilization, Bonds, Insurance, & CCTV	1	LS	\$111,100.00	\$111,100.00
15	24" CIPP	2,640	LF	\$76.55	\$202,092.00
16	21" CIPP	5,680	LF	\$69.55	\$395,044.00
17	16" CIPP	300	LF	\$42.35	\$12,705.00
18	15" CIPP	1,000	LF	\$46.20	\$46,200.00
19	12" CIPP	** 2,270	LF	\$27.65	\$62,765.50
20	8" CIPP	** 17,150	LF	\$23.60	\$404,740.00
21	Urethane Manhole Lining	** 826	VF	\$236.50	\$195,349.00
22	Chemical Grouted Lateral Connections	200	EA	\$660.00	\$132,000.00
22A	Additional Gallons of Grout >5 Gallons	** 101	GAL	\$14.30	\$1,444.30
23	Manhole Barrell Extension	30	VF	\$200.00	\$6,000.00
24	24" Sewer Main Point Repair < 10'	2	EA	\$12,100.00	\$24,200.00
25	24" Sewer Main Point Repair > 10'	2	EA	\$16,500.00	\$33,000.00
26	21" Sewer Main Point Repair < 10'	2	EA	\$8,250.00	\$16,500.00
27	21" Sewer Main Point Repair > 10'	2	EA	\$11,000.00	\$22,000.00
28	15"/16" Sewer Main Point Repair < 10'	2	EA	\$6,600.00	\$13,200.00
29	15"/16" Sewer Main Point Repair > 10'	2	EA	\$8,800.00	\$17,600.00
30	12" Sewer Main Point Repair < 10'	2	EA	\$4,400.00	\$8,800.00
31	12" Sewer Main Point Repair > 10'	2	EA	\$5,500.00	\$11,000.00
32	8" Sewer Main Point Repair < 10'	10	EA	\$2,750.00	\$27,500.00
33	8" Sewer Main Point Repair > 10'	10	EA	\$3,520.00	\$35,200.00
34	Lateral Point Repair < 10'	10	EA	\$2,750.00	\$27,500.00
35	Lateral Point Repair > 10'	10	EA	\$3,300.00	\$33,000.00
36	Manhole Replacement < 10'	2	EA	\$5,500.00	\$11,000.00
37	Manhole Replacement > 10'	2	EA	\$8,800.00	\$17,600.00
38	8" Gravity replacement on sheet #10	1	LS	\$16,500.00	\$16,500.00
39	Raise Manhole 2'	12	EA	\$1,100.00	\$13,200.00
40	Chemical Grouted Joint Repair	100	GAL	\$137.50	\$13,750.00
41	Final Cleanup	1	LS	\$20,000.00	\$20,000.00
Bowling Green Sub-Total					<u>\$1,931,000.00</u>
TOTAL CONSTRUCTION BUDGET					<u>\$2,494,000.00</u>

** Quantities adjusted to balance budget and utilize excess funds.

Household Income Information

Qualifications for funding from RD are based in part on the median income level of the households affected by the project. An examination of U.S. Census data indicates that the median household income in Plum Springs is \$40,833. The median household income in Warren County is \$43,954.

Financial Considerations and Proposed Sewer Rates

The methodology used in developing The District's existing rate schedule was taken from the American Water Works Association, Manual M-1, Water Rates, Section 5, "Rate Design for Small Utilities", published by the AWWA in 2000. Basic philosophy and methodology presented in other sections of that manual were also incorporated into the rate design.

It was determined that with the additional debt service resulting from the proposed project, a general retail rate increase averaging 11.5 percent is required. A wholesale pass through rate increase of \$0.28 per thousand gallons is also required to cover the additional cost of sewer treatment. The total revenue increase will be 19.7 percent. This increase will also allow an adequate margin for depreciation funds to be accumulated for system maintenance, minor improvements, and special programs.

As the District's facilities continue to age and more facilities are added, the need for expenditures on maintenance and upkeep is expected to increase. Examples of major upcoming expenditures from depreciation funds include lift station replacement and additional sewer rehabilitation projects. These are only a couple examples of the many

uses of depreciation funds that are required for system upkeep. Therefore, it is very important for The District to implement sewer rates that result in sufficient revenue so that these funds will be available.

The schedule of sewer rates recommended in conjunction with this project is shown on the following page. Following the rate schedule is the Proforma Adjustment which shows the estimated revenues (which include the rate increases) and expenses for the first full year of operation after the completion of The Plum Springs Area Sewer Rehabilitation project. Appendix D contains the Forecast of Water Usage and Income for the first year of operation. Exhibit "A" is a map of the Plum Springs Area Sewer Rehabilitation project.

PROPOSED SEWER RATE SCHEDULE
WARREN COUNTY WATER DISTRICT
(Includes Average 19.7% Rate Adjustment)

MONTHLY GENERAL SERVICE SEWER RATES

5/8 x 3/4 Inch Meter

First	2,000 gallons	*\$11.77 Minimum Bill
Next	6,000 gallons	5.06 per 1,000 gallons
Next	12,000 gallons	3.92 per 1,000 gallons
Next	80,000 gallons	3.62 per 1,000 gallons
Over	100,000 gallons	3.12 per 1,000 gallons

*The \$11.77 minimum bill shown above applies only to 5/8" x 3/4" meters.
 The minimum bills listed below apply to all other meter sizes.

<u>Meter Size</u>	<u>Minimum bill</u>	
1 inch	\$26.94	Includes the first 5,000 gallons
1-1/2 inch	49.77	Includes the first 10,000 gallons
2 inch	72.66	Includes the first 16,000 gallons
3 inch	122.09	Includes the first 30,000 gallons
4 inch	190.39	Includes the first 50,000 gallons
6 inch	361.14	Includes the first 100,000 gallons

The rates to be charged for water used in excess of the minimum usage amount are the same regardless of meter size. All rates are subject to a 10 percent penalty if paid after the due date.

MONTHLY SEWER RATES
FOR USERS INSIDE THE CITY OF SMITHS GROVE

5/8 x 3/4 Inch Meter

First	2,000 gallons	*\$18.46 Minimum Bill
Next	6,000 gallons	5.23 per 1,000 gallons
Next	12,000 gallons	5.02 per 1,000 gallons
Next	80,000 gallons	4.40 per 1,000 gallons
Over	100,000 gallons	4.00 per 1,000 gallons

*The \$18.46 minimum bill shown above applies only to 5/8" x 3/4" meters. The minimum bills listed below apply to all other meter sizes.

<u>Meter Size</u>	<u>Minimum bill</u>	
1 inch	\$34.15	Includes the first 5,000 gallons
1-1/2 inch	59.89	Includes the first 10,000 gallons
2 inch	89.00	Includes the first 16,000 gallons
3 inch	154.14	Includes the first 30,000 gallons
4 inch	242.17	Includes the first 50,000 gallons
6 inch	462.22	Includes the first 100,000 gallons

The rates to be charged for water used in excess of the minimum usage amount are the same regardless of meter size. All rates are subject to a 10 percent penalty if paid after the due date.

**PROFORMA ADJUSTMENT
PLUM SPRINGS AREA SEWER REHABILITATION
WARREN COUNTY WATER DISTRICT**

	EXISTING SYSTEM	WHOLESALE RATE INCREASE	CHANGES ON EXISTING SYSTEM	CHANGES DUE TO PROJECT	TOTAL FUTURE SYSTEM AFTER PROJECT
OPERATING REVENUE:					
METERED & OTHER					
Meter Sales Revenue	\$3,982,070	\$329,302 (8)	\$456,498 (1)	\$0	\$4,767,870
Forfeited Discounts	73,506	0	0	0	73,506
Misc. Service Revenue	27,983	0	0	0	27,983
Other Water Revenue	600	0	0	0	600
Income-Interest	96,825	0	0	0	96,825
Disposition Gain/Losses.	<u>16,974</u>	<u>0</u>	<u>(16,974) (9)</u>	<u>0</u>	<u>0</u>
TOTAL OPERATING REVENUE	\$4,197,958	\$329,302	\$439,524	\$0	\$4,966,784
OPERATING EXPENSE:					
Salaries and Wages	\$171,118	\$0	\$131,206 (2)	\$0	\$302,324
Commissioner Fees	14,750	0	0	0	14,750
Employee Overhead	100,151	0	90,532 (2)	0	190,683
Sewage Disposal	2,360,078	329,302 (8)	0	0	2,689,380
Purchased Power	121,000	0	0	0	121,000
Chemicals	31,637	0	0	0	31,637
Materials & Supplies	27,394	0	0	0	27,394
Cont. Services-Engr	0	0	0	0	0
Cont. Services-Accounting	15,409	0	0	0	15,409
Cont. Services-Legal	970	0	0	0	970
Cont. Services-Other	87,600	0	0	0	87,600
Rental of Building & Utilities	0	0	0	0	0
Equipment Expense	17,138	0	13,141 (2)	0	30,279
Insurance-Gen'l Liability	10,075	0	0	0	10,075
Insurance-Other	2,517	0	0	0	2,517
Regulatory Expense	7,740	0	0	0	7,740
Bad Debt Expense	895	0	0	0	895
Misc. Expense	<u>6,554</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>6,554</u>
TOTAL OPERATING EXPENSE	\$2,975,026	\$329,302	\$234,880	\$0	\$3,539,208
OTHER EXPENSES					
Depreciation	\$1,116,460	\$0	\$0	\$61,120 (5)	\$1,177,580
Misc. Non-Operating Income	0	0	(127,706) (3)	0	(127,706)
Misc. Non Operating Expense	0	0	0	0	0
OPED Expense	9,396	0	0	0	9,396
Unamortized Debt Expense	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL OTHER EXPENSES	\$1,125,856	\$0	(\$127,706)	\$61,120	\$1,059,270
PRINCIPAL & INTEREST EXPENSE:					
Existing Principal - Other	\$171,362	\$0	(\$78,329) (4)	\$0	\$93,033
Existing Interest - Other	56,119	0	(10,290) (4)	0	45,830
Existing Principal - RDA	20,500	0	3,500 (4)	0	24,000
Existing Interest - RDA	21,544	0	(3,004) (4)	0	18,540
New Principal - KIA	0	0	0	82,313 (6)	82,313
New Interest - KIA	0	0	0	40,000 (6)	40,000
New Principal - RDA	0	0	0	6,990 (7)	6,990
New Interest - RDA	<u>0</u>	<u>0</u>	<u>0</u>	<u>24,994 (7)</u>	<u>24,994</u>
TOTAL PRINCIPAL & INTEREST	\$269,525	\$0	(\$88,122)	\$154,297	\$335,700
TOTAL EXPENSES	<u>\$4,370,407</u>	<u>\$329,302</u>	<u>(\$87,626)</u>	<u>\$215,417</u>	<u>\$4,934,177</u>
NET UTILITY OPERATING INCOME	<u>(\$172,449)</u>	<u>\$0</u>	<u>\$527,150</u>	<u>(\$215,417)</u>	<u>\$32,607</u>

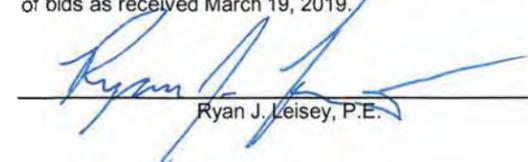
NOTES:

- (1) Proposed rate increase
- (2) Proposed addition of three employees for Inflow & Infiltration reduction crew including benefits & equipment
- (3) Principal & Interest recovered through agreement with Warren Fiscal Court & SICRA fees
- (4) Change in principal & interest payments between Test Period and first full year of operation (2021)
- (5) Depreciation of proposed improvements (50 years)
- (6) Principal & interest payment on KIA loan (20 Years)
- (7) Principal & interest payment on RD loan (40 years)
- (8) Wholesale rate increase from BGMU & associated pass through retail rate income
- (9) Change in disposition income from one time sale of used equipment

APPENDIX A - TABULATION OF BIDS
PLUM SPRINGS AREA SEWER REHABILITATION
WARREN COUNTY WATER DISTRICT
MARCH 19, 2019

ITEM NO.	BASE BID SCHEDULE - (REV. 1) DESCRIPTION		Miller Pipeline Indianapolis, In		Insituform Technologies Chesterfield, Mo		Visu-Sewer, Inc. Pewaukee, Wi		Granite Inliner Orleans, In		SAK Construction O'Fallon, Mo		Gulf Coast Underground Theodore, Al		
			UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
1	Mobilization, Bonds Insurance, Project Sign, & CCTV	1	LS	\$111,100.00	\$111,100.00	\$21,000.00	\$21,000.00	\$125,000.00	\$125,000.00	\$370,000.00	\$370,000.00	\$51,069.00	\$51,069.00	\$90,000.00	\$90,000.00
2	21" CIPP (PS)	3,650	LF	75.30	274,845.00	90.20	329,230.00	76.00	277,400.00	72.00	262,800.00	100.00	365,000.00	125.00	456,250.00
3	12" CIPP (PS)	1,280	LF	26.15	33,472.00	35.00	44,800.00	37.00	47,360.00	38.00	48,640.00	50.00	64,000.00	43.35	55,488.00
4	8" CIPP (PS)	1,990	LF	22.05	43,879.50	30.00	59,700.00	28.50	56,715.00	32.00	63,680.00	40.00	79,600.00	30.80	61,292.00
5	Urethane Manhole Lining (PS)	100	VF	236.50	23,650.00	225.00	22,500.00	240.00	24,000.00	265.00	26,500.00	215.00	21,500.00	275.00	27,500.00
6	Chemical Grouted Lateral Connections (PS) (0-5 gallons)	54	EA	715.00	38,610.00	515.00	27,810.00	325.00	17,550.00	765.00	41,310.00	500.00	27,000.00	529.00	28,566.00
6A	Additional Gallons of Grout (>5 gallons)	25	GAL	14.30	357.50	13.00	325.00	50.00	1,250.00	15.00	375.00	30.00	750.00	30.00	750.00
7	21" Point Repair (PS) (≤ 10')	2	EA	8,250.00	16,500.00	4,120.00	8,240.00	8,250.00	16,500.00	8,800.00	17,600.00	3,020.00	6,040.00	9,375.00	18,750.00
8	21" Point Repair (PS) (> 10')	2	EA	11,000.00	22,000.00	4,785.00	9,570.00	11,000.00	22,000.00	11,750.00	23,500.00	4,350.00	8,700.00	12,500.00	25,000.00
9	12" Point Repair (PS) (≤ 10')	2	EA	4,400.00	8,800.00	3,210.00	6,420.00	4,400.00	8,800.00	4,750.00	9,500.00	3,020.00	6,040.00	5,000.00	10,000.00
10	12" Point Repair (PS) (> 10')	2	EA	5,500.00	11,000.00	3,715.00	7,430.00	5,500.00	11,000.00	5,900.00	11,800.00	4,350.00	8,700.00	6,250.00	12,500.00
11	8" Point Repair (PS) (≤ 10')	2	EA	2,750.00	5,500.00	3,130.00	6,260.00	2,750.00	5,500.00	3,000.00	6,000.00	3,020.00	6,040.00	3,125.00	6,250.00
12	8" Point Repair (PS) (> 10')	2	EA	3,520.00	7,040.00	3,735.00	7,470.00	3,600.00	7,200.00	3,750.00	7,500.00	4,350.00	8,700.00	4,000.00	8,000.00
13	Lateral Connection Point Repair (PS) (≤ 10')	4	EA	2,750.00	11,000.00	1,360.00	5,440.00	2,750.00	11,000.00	2,950.00	11,800.00	3,020.00	12,080.00	3,125.00	12,500.00
14	Lateral Connection Point Repair (PS) (> 10')	4	EA	3,300.00	13,200.00	1,720.00	6,880.00	3,300.00	13,200.00	3,500.00	14,000.00	4,350.00	17,400.00	3,750.00	15,000.00
15	24" CIPP	2,640	LF	76.55	202,092.00	91.00	240,240.00	96.00	253,440.00	88.00	232,320.00	130.00	343,200.00	130.00	343,200.00
16	21" CIPP	5,680	LF	69.55	395,044.00	90.20	512,336.00	76.00	431,680.00	71.00	403,280.00	100.00	568,000.00	125.00	710,000.00
17	16" CIPP	300	LF	42.35	12,705.00	60.00	18,000.00	59.50	17,850.00	52.50	15,750.00	76.00	22,800.00	55.75	16,725.00
18	15" CIPP	1,000	LF	46.20	46,200.00	55.00	55,000.00	57.50	57,500.00	47.00	47,000.00	75.00	75,000.00	55.75	55,750.00
19	12" CIPP	1,770	LF	27.65	48,940.50	35.00	61,950.00	37.00	65,490.00	43.00	76,110.00	50.00	88,500.00	43.35	76,729.50
20	8" CIPP	16,200	LF	23.60	382,320.00	30.00	486,000.00	28.50	461,700.00	30.00	486,000.00	40.00	648,000.00	30.80	498,960.00
21	Urethane Manhole Lining	200	VF	236.50	47,300.00	225.00	45,000.00	240.00	48,000.00	265.00	53,000.00	215.00	43,000.00	275.00	55,000.00
22	Chemical Grouted Lateral Connection (0-5 gallons)	200	EA	660.00	132,000.00	515.00	103,000.00	325.00	65,000.00	765.00	153,000.00	500.00	100,000.00	529.00	105,800.00
22A	Additional Gallons of Grout (>5 gallons)	100	GAL	14.30	1,430.00	13.00	1,300.00	12.00	1,200.00	15.25	1,525.00	30.00	3,000.00	30.00	3,000.00
23	24" Point Repair (≤ 10')	2	EA	12,100.00	24,200.00	5,575.00	11,150.00	12,000.00	24,000.00	12,900.00	25,800.00	3,020.00	6,040.00	13,750.00	27,500.00
24	24" Point Repair (> 10')	2	EA	16,500.00	33,000.00	6,135.00	12,270.00	16,500.00	33,000.00	17,750.00	35,500.00	4,350.00	8,700.00	18,750.00	37,500.00
25	21" Point Repair (≤ 10')	2	EA	8,250.00	16,500.00	4,120.00	8,240.00	8,250.00	16,500.00	8,800.00	17,600.00	3,020.00	6,040.00	9,375.00	18,750.00
26	21" Point Repair (> 10')	2	EA	11,000.00	22,000.00	4,785.00	9,570.00	11,000.00	22,000.00	11,750.00	23,500.00	4,350.00	8,700.00	12,500.00	25,000.00
27	15"/16" Point Repair (≤ 10')	2	EA	6,600.00	13,200.00	3,790.00	7,580.00	6,600.00	13,200.00	7,050.00	14,100.00	3,020.00	6,040.00	7,500.00	15,000.00
28	15"/16" Point Repair (> 10')	2	EA	8,800.00	17,600.00	5,300.00	10,600.00	8,800.00	17,600.00	9,400.00	18,800.00	4,350.00	8,700.00	10,000.00	20,000.00
29	12" Point Repair (≤ 10')	2	EA	4,400.00	8,800.00	3,395.00	6,790.00	4,400.00	8,800.00	4,700.00	9,400.00	3,020.00	6,040.00	5,000.00	10,000.00
30	12" Point Repair (> 10')	2	EA	5,500.00	11,000.00	3,930.00	7,860.00	5,500.00	11,000.00	5,900.00	11,800.00	4,350.00	8,700.00	6,250.00	12,500.00
31	8" Point Repair (≤ 10')	10	EA	2,750.00	27,500.00	3,130.00	31,300.00	2,750.00	27,500.00	2,925.00	29,250.00	3,020.00	30,200.00	3,125.00	31,250.00
32	8" Point Repair (> 10')	10	EA	3,520.00	35,200.00	3,735.00	37,350.00	3,500.00	35,000.00	3,750.00	37,500.00	4,350.00	43,500.00	4,000.00	40,000.00
33	Lateral Connection Point Repair (≤ 10')	10	EA	2,750.00	27,500.00	1,360.00	13,600.00	2,750.00	27,500.00	2,925.00	29,250.00	3,020.00	30,200.00	3,125.00	31,250.00
34	Lateral Connection Point Repair (> 10')	10	EA	3,300.00	33,000.00	1,720.00	17,200.00	3,300.00	33,000.00	3,525.00	35,250.00	4,350.00	43,500.00	3,750.00	37,500.00
35	Manhole Replacement (≤ 10')	2	EA	5,500.00	11,000.00	5,800.00	11,600.00	5,500.00	11,000.00	5,850.00	11,700.00	3,020.00	6,040.00	6,250.00	12,500.00
36	Manhole Replacement (> 10')	2	EA	8,800.00	17,600.00	6,450.00	12,900.00	8,800.00	17,600.00	9,400.00	18,800.00	4,350.00	8,700.00	10,000.00	20,000.00
37	8" Gravity Replacement Identified on Sheet # 10	1	LS	16,500.00	16,500.00	15,000.00	15,000.00	16,500.00	16,500.00	17,550.00	17,550.00	5,500.00	5,500.00	18,750.00	18,750.00
38	Raise Manhole 2'	12	EA	1,100.00	13,200.00	2,300.00	27,600.00	1,200.00	14,400.00	1,175.00	14,100.00	875.00	10,500.00	1,250.00	15,000.00
39	Chemical Grouted Joint Repair	100	GAL	137.50	13,750.00	155.00	15,500.00	125.00	12,500.00	15.25	1,525.00	30.00	3,000.00	50.00	5,000.00
40	Final Cleanup, SWPPP Measurese & Reporting	1	LS	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
TOTAL BASE BID				\$2,250,535.50		\$2,362,011.00		\$2,407,435.00		\$2,754,415.00		\$2,834,219.00		\$3,090,510.50	

I hereby certify that this a true and accurate tabulation of bids as received March 19, 2019.


 Ryan J. Leisey, P.E.

BID FORM

PLUM SPRINGS AREA SEWER REHABILITATION

TABLE OF CONTENTS

	Page
Article 1 – Bid Recipient	1
Article 2 – Bidder’s Acknowledgements	1
Article 3 – Bidder’s Representations	1
Article 4 – Bidder’s Certification	2
Article 5 – Basis of Bid.....	3
Article 6 – Time of Completion	5
Article 7 – Attachments to this Bid	6
Article 8 – Defined Terms.....	7
Article 9 – Bid Submittal.....	7

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Warren County Water District, 523 U.S. 31W Bypass, Bowling Green, KY 42101.

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for ~~60~~90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
<u>Addendum #1</u>	<u>March 13, 2019</u>
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work and including AIS requirements.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents 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; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 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;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid 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; and
 - 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 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Base bid of the project shall be determined based on a summation of lump sum items in the following table:

BASE BID SCHEDULE (REV. J)

NO.	ITEM	UNIT	UNIT PRICE	QTY.	TOTAL PRICE
1	Mobilization, Bonds, Insurance, Project Sign, & CCTV	LS	<u>\$111,100.00</u>	1	<u>\$111,100.00</u>
2	21" CIPP (Plum Springs)	LF	<u>\$75.30</u>	3,650	<u>\$274,845.00</u>
3	12" CIPP (Plum Springs)	LF	<u>\$26.15</u>	1,280	<u>\$33,472.00</u>
4	8" CIPP (Plum Springs)	LF	<u>\$22.05</u>	1,990	<u>\$43,879.50</u>
5	Urethane Manhole Lining (Plum Springs)	VF	<u>\$236.50</u>	100	<u>\$23,650.00</u>
6	Chemical Grouted Lateral Connections (Plum Springs)				
	(0-5 gallons)	EA	<u>\$715.00</u>	54	<u>\$38,610.00</u>
6A	Additional Gallons of Grout (>5 gallons)	GAL	<u>\$14.30</u>	25	<u>\$357.50</u>
7	21" Point Repair (Plum Springs) (≤ 10')	EA	<u>\$8,250.00</u>	2	<u>\$16,500.00</u>
8	21" Point Repair (Plum Springs) (>10')	EA	<u>\$11,000.00</u>	2	<u>\$22,000.00</u>
9	12" Point Repair (Plum Springs) (≤ 10')	EA	<u>\$4,400.00</u>	2	<u>\$8,800.00</u>
10	12" Point Repair (Plum Springs) (> 10')	EA	<u>\$5,500.00</u>	2	<u>\$11,000.00</u>
11	8" Point Repair (Plum Springs) (≤ 10')	EA	<u>\$2,750.00</u>	2	<u>\$5,500.00</u>
12	8" Point Repair (Plum Springs) (> 10')	EA	<u>\$3,520.00</u>	2	<u>\$7,040.00</u>
13	Lateral Connection Point Repair (Plum Springs (≤10')	EA	<u>\$2,750.00</u>	4	<u>\$11,000.00</u>
14	Lateral Connection Point Repair (Plum Springs (>10')	EA	<u>\$3,300.00</u>	4	<u>\$13,200.00</u>
15	24" CIPP	LF	<u>\$76.55</u>	2,640	<u>\$202,092.00</u>
16	21" CIPP	LF	<u>\$69.55</u>	5,680	<u>\$395,044.00</u>
17	16" CIPP	LF	<u>\$42.35</u>	300	<u>\$12,705.00</u>
18	15" CIPP	LF	<u>\$46.20</u>	1,000	<u>\$46,200.00</u>
19	12" CIPP	LF	<u>\$27.65</u>	1,770	<u>\$48,940.50</u>
20	8" CIPP	LF	<u>\$23.60</u>	16,200	<u>\$382,320.00</u>
21	Urethane Manhole Lining	VF	<u>\$236.50</u>	200	<u>\$47,300.00</u>

BASE BID SCHEDULE (CONTINUED) (REV. 1)

NO.	ITEM	UNIT	UNIT PRICE	QTY.	TOTAL PRICE
22	Chemical Grouted Lateral Connection (0-5 gallons)	EA	\$660.00	200	\$132,000.00
22A	Additional Gallons of Grout (>) 5 gallons)	GAL	\$14.30	100	\$1,430.00
23	24" Point Repair (≤ 10')	EA	\$12,100.00	2	\$24,200.00
24	24" Point Repair (> 10')	EA	\$16,500.00	2	\$33,000.00
25	21" Point Repair (≤ 10')	EA	\$8,250.00	2	\$16,500.00
26	21" Point Repair (> 10')	EA	\$11,000.00	2	\$22,000.00
27	15"/16" Point Repair (≤ 10')	EA	\$6,600.00	2	\$13,200.00
28	15"/16" Point Repair (> 10')	EA	\$8,800.00	2	\$17,600.00
29	12" Point Repair (≤ 10')	EA	\$4,400.00	2	\$8,800.00
30	12" Point Repair (> 10')	EA	\$5,500.00	2	\$11,000.00
31	8" Point Repair (≤ 10')	EA	\$2,750.00	10	\$27,500.00
32	8" Point Repair (> 10')	EA	\$3,520.00	10	\$35,200.00
33	Lateral Connection Point Repair (≤ 10')	EA	\$2,750.00	10	\$27,500.00
34	Lateral Connection Point Repair (> 10')	EA	\$3,300.00	10	\$33,000.00
35	Manhole Replacement (≤ 10')	EA	\$5,500.00	2	\$11,000.00
36	Manhole Replacement (> 10')	EA	\$8,800.00	2	\$17,600.00
37	8" gravity replacement identified on sheet #10	LS	\$16,500.00	1	\$16,500.00
38	Raise manhole 2'	EA	\$1,100.00	12	\$13,200.00
39	Chemical Grouted Joint Repair	GAL	\$137.50	100	\$13,750.00
40	Final Cleanup, SWPPP Measures & Reporting	LS	\$20,000	1	\$20,000

TOTAL BASE BID

\$2,250,535.50

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
 - F. Contractor's License No.: 372200
 - G. Required Bidder Qualification Statement with supporting data; and
 - H. If Bid amount exceeds \$10,000, signed Compliance Statement (RD 400-6). Refer to specific equal opportunity requirements set forth in the Supplemental General Conditions;
 - I. If Bid amount exceeds \$25,000, signed Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions (AD-1048);
 - J. If Bid amount exceeds \$100,000, signed RD Instruction 1940-Q, Exhibit A-1, Certification for Contracts, Grants, and Loans.
 - K. "Manufacturer's Certification Letter (Exhibit D) on any approved "or equal" or substitute request to ensure compliance with AIS requirements and any subsequent statutes mandating domestic preference.

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

Miller Pipeline, LLC

By:

[Signature]



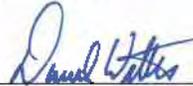
[Printed name]

Daniel L. Short, CFO

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature]



[Printed name]

Daniel Watters

Title:

Contract Administration Manager

Submittal Date:

3/19/19

Address for giving notices:

8850 Crawfordsville Road

Indianapolis, IN 46234

Telephone Number:

317-293-0278

Fax Number:

317-293-8502

Contact Name and e-mail address:

Chris Schuler

chris.schuler@millerpipeline.com

Bidder's License No.:

372200

(where applicable)

**MILLER PIPELINE, LLC
UNANIMOUS WRITTEN CONSENT
OF THE DIRECTORS
IN LIEU OF THE ANNUAL MEETING**

The undersigned, being all of the directors of Miller Pipeline, LLC (“Company”), an Indiana limited liability company, under the provisions of Indiana Code §23-18-4, hereby adopt the following resolution by unanimous written consent, in lieu of the annual meeting:

BE IT RESOLVED that the Board of Company elects the following persons to the offices in the Company set opposite their respective names, in each case, to serve until the next annual meeting of the Board or until their respective successors have been duly qualified and elected:

Chief Executive OfficerDouglas S. Banning, Jr.
President and Chief Operating Officer.....Kevin G. Miller
Chief Financial Officer, Treasurer
and Assistant SecretaryDaniel L. Short
Executive Vice PresidentDale Anderson
Secretary.....Joshua A. Claybourn
Vice President of Safety.....Ralph E. Miller
Vice President of Ohio OperationsScott E. Miller
Vice President of East Coast OperationsFrank Bracht
Vice President of Indiana and
Kentucky Operations.....David J. Tucker

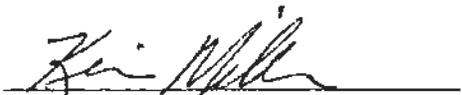
BE IT FURTHER RESOLVED by the Board of Company that the officers of the Company are further authorized to take such actions as in their reasonable judgment they deem necessary or appropriate to carry out the foregoing resolutions, after consideration of all appropriate issues and consultation with legal counsel and other professional advisors.

[Remainder of page intentionally left blank; signature page to follow.]

Effective as of 12:00 p.m. (E.S.T.) this 17th day of April, 2014.



Douglas S. Banning, Jr.



Kevin Miller



Daniel L. Short



Dale Anderson

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (Name and Address): Miller Pipeline, LLC
8850 Crawfordsville Road
Indianapolis, IN 46234

SURETY (Name, and Address of Principal Place of Business):
Travelers Casualty and Surety Company of America
1 Tower Square, 5PB
Hartford, CT 06183

OWNER (Name and Address): Warren County Water District
523 US 31 W Bypass
Bowling Green, KY 42101

BID

Bid Due Date: 3/19/19

Description (Project Name— Include Location): Plum Springs Area Sewer Rehabilitation

BOND

Bond Number:

Date: March 19, 2019

Penal sum Five Percent of the Total Amount Bid \$ (5%)
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER Miller Pipeline, LLC (Seal) **SURETY** Travelers Casualty and Surety Company of America (Seal)

Bidder's Name and Corporate Seal Surety's Name and Corporate Seal

By: Geoffrey M. Garley By: Robin Hubbard-Sherrod
Signature Signature (Attach Power of Attorney)

Geoffrey M. Garley Robin Hubbard-Sherrod
Print Name Print Name

VICE PRESIDENT HUMAN RESOURCES Attorney-in-Fact
Title Title

Attest: David Watters Attest: Gregory O'Neal
Signature Signature

Title Title Witness

Note: Addresses are to be used for giving any required notice.
Provide execution by any additional parties, such as joint venturers, if necessary.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2 All Bids are rejected by Owner, or
 - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.



Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Robin Hubbard-Sherrod of Charleston, West Virginia** their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February**, 2017.



State of Connecticut

City of Hartford ss.

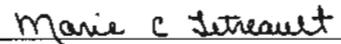
By: 
 Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2021




 Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

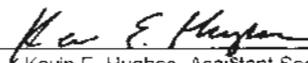
FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 19th day of March, 2019




 Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.



March 15, 2019

Warren County – Plum Springs Area Sewer Rehabilitation

List of Suppliers:

MTC Inc. - CIPP Material

List of Subcontractors:

Bio-Nomic Services Inc. – Grouting
530 Woodlawn Street
Belmont, NC 28012
704-529-0000

Bobby Luttrell and Sons LLC – Point Repairs
190 Bank Circle Drive
Dundee, KY
270-276-9439

Commercial Sewer Cleaning – Clean and CCTV
5838 South Harding
Indianapolis, IN 46217
317-782-0020

Spectra Tech
PO Box 2171
Noblesville, IN 46061
317-770-0300



LIST OF 10 COMPLETED PROJECTS SIMILAR IN SCOPE AND COMPLEXITY
COMPLETED WITHIN THE PAST 2 YEARS

CIPP References Only

1a.) Project Title: Annual I&I Sewer Rehabilitation Project (5 year annual contract)

Project Location: Louisville, KY

Project Contract Value: \$1,104,120.00 (adjusted per year)

1b.) Project Description: Sewer Rehab (we have completed two years of work - still in progress)

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

1c.) Client Name: Louisville & Jefferson Co. MSD Heather Dodds

Client Address: 700 Liberty St., Louisville, KY 40203

Client Phone Number: 502/540-6000

2a.) Project Title: Collection Systems Rehabilitation CIPP Lining Renewal

Project Location: Ft. Wright, KY

Project Contract Value: 16,188,942.80 (5 year annual contract)

2b.) Project Description: Sewer Rehab (we have completed two years of work - still in progress)

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

2c.) Client Name: Sanitation Dist. No. 1 (SD1) - *Brandy Miller* Matthew Downing

Client Address: 1045 Eaton Dr. Ft. Wright, KY 41017

Client Phone Number: 859/578-7450

3a.) Project Title: Hamilton, OH Contract No. 15-27 - Sanitary Sewer Lining

Project Location: Hamilton, OH

Project Contract Value: \$1,739,018.75

3b.) Project Description: 49,550' of 8", 2,400' of 10", 1,170' of 12", 2,775' of 15"
CIPP Lining

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

3c.) Client Name: City of Hamilton, OH

Client Address: 345 High Street #730, Hamilton, OH 45011

Client Phone Number: 513/785-7170

4a.) Project Title: Southeast Sanitary Liner Installation PH 7 (Open Market)

Project Location: Dayton, OH

Project Contract Value: \$1,497,574.65

4b.) Project Description: rehab

Pipe Diameters: 8" _____ Linear Feet: 31,565

Number of Service Connections Reinstated: 993

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

4c.) Client Name: City of Dayton, OH - Lana Hamby

Client Address: 320 West Monument Ave., Dayton, OH 45402

Client Phone Number: 937/333-3725

5a.) **Project Title:** Sanitary Sewer Rehabilitation Phase 12
Project Location: New Lebanon, Ohio
Project Contract Value: \$129,878.00

5b.) **Project Description:** rehab
Pipe Diameters: 8" **Linear Feet:** 4,130
Number of Service Connections Reinstated: 77
Problems that Required Removal of the Installed Systems or Any Conditions: N/A

5c.) **Client Name:** Municipality of New Lebanon
Client Address: 198 South Clayton Rd., New Lebanon, OH 45345
Client Phone Number: 937/687-1341

6a.) **Project Title:** Several project for the City of Vandalia, OH
Project Location: Vandalia, OH
Project Contract Value: A. \$187,945.00
B. \$124,645.00

6b.) **Project Description:** 14,550' of 8", 3,820' of 10", 4,240' of 12", 193 Lat
2,883' of 8", 888' of 8" with limited access, 148' of 10"
Pipe Diameters: _____ **Linear Feet:** _____
Number of Service Connections Reinstated: _____
Problems that Required Removal of the Installed Systems or Any Conditions: N/A

6c.) **Client Name:** City of Vandalia, OH - Rob Cron
Client Address: 333 James E Bohanan Memorial Drive, Vandalia, OH 45377
Client Phone Number: 937/898-5891

7a.) Project Title: Town of Plainfield, IN

Project Location: Plainfield, IN

Project Contract Value: \$354,429.00

7b.) Project Description: 11,871' of 8", 200' of 10", 189' of 12",

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: 142

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

7c.) Client Name: Bowen Engineering Corporation

Client Address: 8802 North Meridian St., Indianapolis, IN 46260

Client Phone Number: 317/842-2616

8a.) Project Title: Warrington Drive - Small Diameter Sewer Rehab Project

Project Location: Indianapolis, IN

Project Contract Value: \$2,419,167.23

8b.) Project Description: 35,000' of 8", 10", 12" and 15", included in work is 1,915 Lf of manhole lining as channel and bench reconstructions, chimney reconstruction fram and cover replacements.

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

8c.) Client Name: Citizens Energy Group - Tim shutters

Client Address: 2150 N. Dr. Martin Luther King Jr. St., Indpls., IN 46202

Client Phone Number: 317/429-3973

9a.) Project Title: Union City Sanitary Sewer Rehabilitation Phase IV

Project Location: Union City, OH

Project Contract Value: \$321,430.25

9b.) Project Description: 10,400' of 8" - 10"

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

9c.) Client Name: Mote & Associates, INC.

Client Address: 214 West Fourth St., Greenville, OH 45331

Client Phone Number: 937/548-7511

10a.) Project Title: Sanitary Sewer and Manhole Rehab

Project Location: Greenwood, IN

Project Contract Value: \$1,783,453.10

10b.) Project Description: 26,090 lf of 6" - 21"

Pipe Diameters: _____ Linear Feet: _____

Number of Service Connections Reinstated: _____

Problems that Required Removal of the Installed Systems or Any Conditions: _____

N/A

10c.) Client Name: Strand Associates, Inc.

Client Address: 629 Washington St., Columbus, IN 47201

Client Phone Number: 812/372-9911



0406098.06

dcornish
AMD

Elaine N. Walker, Secretary of State
Received and Filed:
6/1/2011 12:07 PM
Fee Receipt: \$40.00

COMMONWEALTH OF KENTUCKY
ELAINE N. WALKER, SECRETARY OF STATE

FRANKLIN COUNTY
A84 PG 141

Division of Business Filings
Business Filings
PO Box 718
Frankfort, KY 40602
(502) 564-3490
www.sos.ky.gov

Amended Certificate of Authority
(Foreign Business Entity)

FCA

Pursuant to the provisions of KRS Chapter KRS 14A and 271B, 273, 274, 275, 362 or 386 the undersigned hereby applies for an amended certificate of authority on behalf of the entity named below and, for that purpose, submits the following statements:

1. The business entity is: profit corporation (KRS 271B). nonprofit corporation (KRS 273).
 professional service corporation (KRS 274). business trust (KRS 386).
 limited liability company (KRS 275). limited partnership (KRS 362).
 professional limited liability company (KRS 275).

2. The name of the company is: Miller Pipeline Corporation
(The name must be identical to the name on record with the Secretary of State.)

3. It is an entity organized and existing under the laws of the state or country of Indiana

4. The entity received authority to transact business in Kentucky on 9-29-95

5. The entity has changed its (check all that apply)

- Domicile name to Miller Pipeline, LLC
Name to be used in Kentucky to _____
 Jurisdiction of organization to _____
 Period of duration _____
 Form of organization converted to a LLC

6. This application will be effective upon filing, unless a delayed effective date and/or time is provided. The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is _____
(Delayed effective date and/or time)

I declare under penalty of perjury under the laws of the state of Kentucky that the foregoing is true and correct.

Nina Turner Nina Turner Asst Sec & Treasurer 5/31/11
Signature of Authorized Representative Printed Name Title Date

DOCUMENT NO: 372200
RECORDED ON: JUNE 02, 2011 12:38:49PM
TOTAL FEES: \$11.00
COUNTY CLERK: GUY ZEIGLER
COUNTY: FRANKLIN COUNTY
DEPUTY CLERK: ANITA WHITAKER
BOOK A84 PAGES 141 - 141

(04/11)

01/01/2011

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF REVENUE
FRANKFORT KENTUCKY
40601

MILLER PIPELINE LLC
8850 CRAWFORDSVILLE RD
INDIANAPOLIS IN 46234

DATE: DECEMBER 22, 2011

SUBJECT: KENTUCKY WITHHOLDING TAX ACCOUNT NUMBER

ACCOUNT NUMBER 329590 HAS BEEN ASSIGNED AS YOUR EMPLOYER NUMBER FOR REPORTING KENTUCKY INCOME TAX WITHHELD. PLEASE USE THIS NUMBER ON REPORTS OR CORRESPONDENCE REGARDING KENTUCKY INCOME TAX WITHHELD FROM YOUR EMPLOYEES' WAGES. DEPARTMENT OF REVENUE RECORDS INDICATE THE LIABILITY DATE IS 01/01/2011.

YOUR ACCOUNT HAS BEEN PLACED ON A TWICE-MONTHLY FILING BASIS. A PREPRINTED FORM FOR REPORTING KENTUCKY INCOME TAX WITHHELD FOR FUTURE PERIODS WILL BE MAILED TO YOU APPROXIMATELY FIFTEEN (15) DAYS PRIOR TO THE DUE DATE. PLEASE USE THE PREPRINTED FORM FOR REPORTING AND REMITTING THE KENTUCKY TAX WITHHELD FROM YOUR EMPLOYEES' WAGES. RETURNS MUST BE FILED EVEN IF NO TAX IS DUE FOR THE REPORTING PERIOD.

THE EMPLOYER INSTRUCTION BOOKLET "WITHHOLDING KENTUCKY INCOME TAX" THE CURRENT YEAR TAX TABLE BOOKLET, AND WITHHOLDING EXEMPTION CERTIFICATES ARE AVAILABLE TO DOWNLOAD FROM OUR WEBSITE AT [HTTP://REVENUE.KY.GOV/FORMS/CURWHFRMS.HTM](http://REVENUE.KY.GOV/FORMS/CURWHFRMS.HTM).

IF YOU HAVE QUESTIONS OR IF YOU NEED TO FILE ANY BACK WITHHOLDING TAX RETURNS, PLEASE CONTACT THE WITHHOLDING TAX BRANCH AT (502) 564-7287 OR SEND CORRESPONDENCE TO THE ADDRESS LISTED BELOW.

KENTUCKY DEPARTMENT OF REVENUE
WITHHOLDING TAX BRANCH
P.O. BOX 181
501 HIGH STREET
FRANKFORT, KY 40602

AN EQUAL OPPORTUNITY EMPLOYER M/F/H

Commonwealth of Kentucky
Department of Revenue
Frankfort, KY
40620
revenue.ky.gov

TO: MILLER PIPELINE LLC
ANGELA ZELLERS
8850 CRAWFORDSVILLE RD
INDIANAPOLIS IN 46234

DATE: DECEMBER 22, 2011

SUBJECT: SALES AND USE TAX PERMIT

ACCOUNT NUMBER 335612 HAS BEEN ASSIGNED AS YOUR SALES AND USE TAX NUMBER FOR REPORTING KENTUCKY SALES AND USE TAX. PLEASE USE THIS NUMBER ON RETURNS AND CORRESPONDENCE REGARDING KENTUCKY SALES AND USE TAX. DEPARTMENT OF REVENUE (DOR) RECORDS INDICATE THE ACCOUNT LIABILITY DATE IS 01/01/2011. IF THIS IS INCORRECT, PLEASE NOTIFY THE DIVISION OF SALES AND USE TAX.

YOUR ACCOUNT HAS BEEN PLACED ON A MONTHLY FILING BASIS. A PREPRINTED FORM FOR REPORTING SALES AND USE TAX WILL BE MAILED TO YOU APPROXIMATELY FIFTEEN (15) DAYS PRIOR TO THE DUE DATE OF EACH RETURN. PLEASE USE THE PREPRINTED FORM FOR REPORTING AND REMITTING KENTUCKY SALES AND USE TAX. RETURNS MUST BE FILED EVEN IF NO TAX IS DUE. IF YOU ARE INTERESTED IN REPORTING YOUR KENTUCKY SALES AND USE TAX ELECTRONICALLY, PLEASE VISIT THE DOR WEBSITE AT WWW.REVENUE.KY.GOV AND CLICK ON KY E-TAX.

THE DETACHMENT AT THE BOTTOM OF THE PAGE IS YOUR KENTUCKY SALES AND USE TAX PERMIT CARD. THIS PERMIT MUST BE POSTED IN A CONSPICUOUS PLACE AT THE BUSINESS LOCATION LISTED ON THE PERMIT. (MORE INFORMATION CONTINUED ON BACK PAGE.)

-----Detach Here-----

FORM 51A101(a)
(8-2011)

Commonwealth of Kentucky
Department of Revenue
Sales and Use Tax Permit

MILLER PIPELINE LLC 8850 CRAWFORDSVILLE RD INDIANAPOLIS IN 46234	Account Number 335612	Issue Date 12/22/11
--	--------------------------	------------------------

THIS SELLER'S PERMIT IS ISSUED PURSUANT TO KRS 139.250.

POST IN A CONSPICUOUS PLACE

THIS PERMIT IS NOT TRANSFERABLE

THIS PERMIT IS ISSUED PURSUANT TO AUTHORITY OF CHAPTER 139 OF THE KENTUCKY REVISED STATUTES AND IS VALID UNTIL CANCELLED OR REVOKED.

B.1 - Miller Pipeline Corporation Qualifications

Miller Pipeline Corporation is one of the nation's premier contractors, providing a comprehensive range of pipeline contracting and rehabilitation services for sewer pipelines, water, and gas, as well as specialty products and services for the industrial and telecommunications industries.

Miller Pipeline Corporation is a wholly owned subsidiary of **Vectren Corporation**, two of our nation's energy leaders. **Vectren Corporation** distributes electricity and natural gas to nearly 770,000 business and residential customers with revenues close to \$3.0 Billion.

We believe there are many reasons why **Miller Pipeline Corporation** is regarded as a premier and well-respected national contractor. Certainly, our combination of innovative thinking, technical expertise, and customer service have played a big part. We continue to research and improve our products and processes in order to offer our customers cost-effective and value-added products and services.

We pride ourselves in our ability to provide our customers with a full range of rehabilitation methods to meet individual needs and specific application constraints. Miller was one of the first contractors to import Trenchless technologies from Europe and the Far East. We acquire the latest high-tech equipment that is so vital to doing the job right and in a safe efficient manner.

We realize that our employees are the backbone of our existence. They are never taken for granted. Many of the **Miller Pipeline Corporation** team has spent most of their entire career with the company. This lets us know that as a Company we are doing something right. This is key to our success and it shows.

Miller Pipeline Corporation has been in the business for over 60 years and has demonstrated resilience to economic downturns and will remain secure for the future. Our organization is solid, not only from an economic standpoint, but the issue at hand, demonstrating our knowledge to correct **(I/T) Problems and overflows**.

B.2 - Corporate Experience and Capacity

Miller Pipeline Corporation has been providing our customers with experience and an admirable list of core capabilities and customer centered solutions since 1953. **Miller Pipeline Corporation** is headquartered in Indianapolis, IN. and has additional offices nationwide from California to New Jersey. Currently, the Company maintains more than 200 construction crews made up of skilled, professional employees, many of whom have been with the Company their entire careers. We are an organization with over 3,000 employees and equipment fleet nearing \$100,000,000.

As a recognized leader in the industry we attribute much of our success and longevity to the quality of work we provide to our customers and the professional and stable leadership at all levels within the Company. The values and principals, on which the Company was originally founded, remain today as the cornerstone of our commitment to quality and value-added service. It is in this way our Company stays on the leading edge and achieves maximum efficiencies to provide greater value.

Miller Pipeline Corporation is committed to customer satisfaction and the highest quality standards in the Industry. We believe that the resulting benefit to this commitment is that our **best work is done each and every day.**



Miller Pipeline Corporation has been in the pipeline rehabilitation business since 1970. Since then, we have specialized in all phases of pipeline installations, rehabilitation and related services. **Miller Pipeline Corporation** current capabilities include the following:

Gas

- Distribution
- Main and Service Installations
- New, Replace, and Rehabilitation
- Directional Drilling
- Cathodic Protection
- Distribution Stations / Fabrication
- Vacuum Excavation
- External and Internal Joint Repair
- Internal Joint Repair Sales
- Transmission
- Extensions
- Replacement
- Rehabilitation
- Relocation

Telecommunications

- Trenching
- Directional Drilling
- Manhole Installation
- Fiber Optic Installation
- Verification and Daylighting

Wastewater

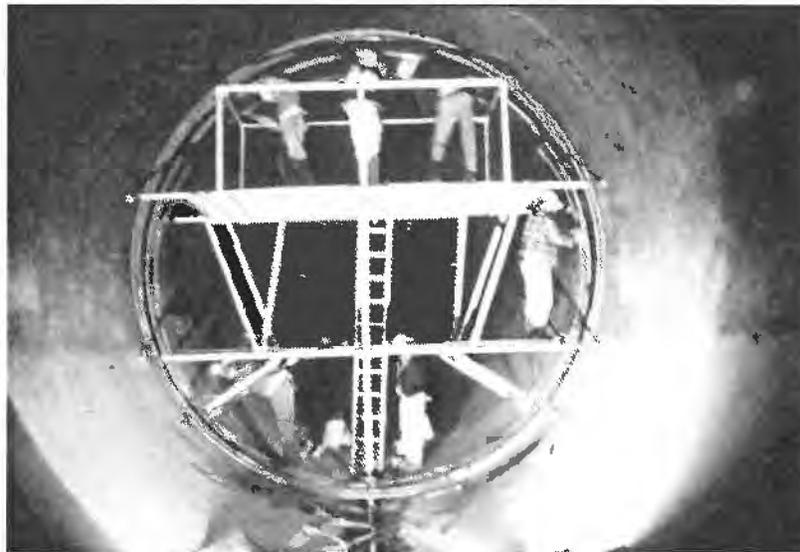
- MPC ToughTube™, Cured-In-Place Pipe
- Xpandit®, Pipe Bursting
- EX Method®, PVC Expanded-In-Place Pipe
- CCTV
- Full Line Replacement and Point Repairs
- Manhole Rehabilitation Products

Water

- Mainline and Service Installation
- New / Rehabilitation
- Directional Drilling
- HDPE Pipe Expertise
- Internal Joint Sealing

Vacuum Excavation

- Gas Line Rehabilitation
- External Joint Sealing
- Utility Verification / Daylighting
- Cathodic Protection
- Anodes / Test Stations / Fault Finding



Miller Pipeline Corporation WEKO Crew

COMPLIANCE STATEMENT

This statement relates to a proposed contract with Warren County Water District

(Name of borrower or grantee)

who expects to finance the contract with assistance from either the Rural Housing Service (RHS), Rural Business-Cooperative Service (RBS), or the Rural Utilities Service (RUS) or their successor agencies, United States Department of Agriculture (whether by a loan, grant, loan insurance, guarantee, or other form of financial assistance). I am the undersigned bidder or prospective contractor, I represent that:

1. I have, ___ have not, participated in a previous contract or subcontract subject to Executive Order 11246 (regarding equal employment opportunity) or a preceding similar Executive Order.
2. If I have participated in such a contract or subcontract, I have, ___ have not, filed all compliance reports that have been required to file in connection with the contract or subcontract.

If the proposed contract is for \$50,000 or more: or ___ If the proposed nonconstruction contract is for \$50,000 or more and I have 50 or more employees, I also represent that:

3. I have, ___ have not previously had contracts subject to the written affirmative action programs requirements of the Secretary of Labor.
4. If I have participated in such a contract or subcontract, I have, ___ have not developed and placed on file at each establishment affirmative action programs as required by the rules and regulations of the Secretary of Labor.

I understand that if I have failed to file any compliance reports that have been required of me, I am not eligible and will not be eligible to have my bid considered or to enter into the proposed contract unless and until I make an arrangement regarding such reports that is satisfactory to either the RHS, RBS or RUS, or to the office where the reports are required to be filed.

I also certify that I do not maintain or provide for my employees any segregated facilities at any of my establishments, and that I do not permit my employees to perform their services at any location, under my control, where segregated facilities are maintained. I certify further that I will not maintain or provide for my employees any segregated facilities at any of my establishments, and that I will not permit my employees to perform their services at any location, under my control, where segregated facilities are maintained. I agree that a breach of this certification is a violation of the Equal Opportunity clause in my contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and wash rooms, restaurants and other eating areas time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom, or otherwise. I further agree that (except where I have obtained identical certifications for proposed subcontractors for specific time periods) I will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that I will retain such certifications in my files; and that I will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays the valid OMB control number. The valid OMB control number for this information collection is 0575-0018. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENTS FOR
CERTIFICATIONS OF NON-SEGREGATED FACILITIES**

A certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32F.R. 7439, may 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$ 10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

DATE March 15, 2019



(Signature of Bidder or Prospective Contractor)

8850 Crawfordsville Rd.
Indianapolis, IN 46234
Address (including zip Code)

CERTIFICATION FOR CONTRACTS, GRANTS AND LOANS

The undersigned certifies, to the best of his or her knowledge and belief, that

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant or Federal loan, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant or loan.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant or loan, the undersigned shall complete and submit standard Form - LL, "Disclosure of Lobbying Activities," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including contracts, subcontracts, and subgrants under grants and loans) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



(name)

March 15, 2019

(date)

Daniel L. Short, CFO

(title)

o0o

U.S. DEPARTMENT OF AGRICULTURE

**Certification Regarding Debarment, Suspension, Ineligibility
and Voluntary Exclusion - Lower Tier Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 7 CFR part 3017, Section 3017.510, Participants' responsibilities. The regulations were published as Part IV of the January 30, 1989, Federal Register (pages 4722-4733). Copies of the regulations may be obtained by contacting the Department of Agriculture agency with which this transaction originated.

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON REVERSE)

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Miller Pipeline, LLC

Organization Name

PR Award Number or Project Name

Daniel L. Short, CFO

Name(s) and Title(s) of Authorized Representative(s)

D L Short

March 15, 2019

Signature(s)

Date





BIO-NOMIC SERVICES

A Carylon Company

530 Woodlawn Street
Belmont, NC 28012

p: (704) 529-0000

f: (704) 529-1648

www.bio-nomic.com

Bio-Nomic Services, Inc.
References – Grouting

NCDOT – Division 2
139 Masontown Rd.
Newport, NC 28570
Grouting of 48” Sewer under US70 in Havelock, NC - 2018
David Livingston
252-223-4811
dmlivingston@ncdot.gov

DOW – West Virginia Operations
Nitro, WV
Jacobs Engineering Group
Grouting of 500 LF of 60” Diameter Sewer Lines - 2018
Andy Sprinkle
502-287-1057
Andrew.sprinkle@jacobs.com

Town of Sullivan’s Island
PO Box 247
Sullivan’s Island, SC 29842
Cleaning, CCTV Inspection, and Grouting
41,000 LF of Mainlines & Testing & Sealing of 550 Laterals
2018 - Ongoing
Greg Gress - Manager
Water & Sewer Department
Phone: 843-883-5748
ggress@sullivanisland-sc.com

Am-Liner East, Inc
Downtown Sewer Rehabilitation Project
Salem, VA
Grouting of 1,000 LF of 18” Sanitary Sewer Interceptor Lines - 2018
Olen All - Project Manager
AM-Liner East, Inc.
601 Jack Enders Boulevard
Berryville, VA 22611
540.336.3968
oall@amlinereast.com

Aiken, SC - Sand River Basin FPA Project
Grouting of 200,000 LF of Mainlines and Testing & Sealing of 500 Laterals
ARCADIS U.S., Inc.
316 Covered Bridge Road
King of Prussia, PA 19406
James W. Shelton, P.E.
Mobile – 302-723-1450
James.shelton@arcadis.com
2018 - Ongoing

Jefferson County 2016 Sanitary Sewer Rehabilitation Contract
Birmingham, AL
General Contractor-Insituform Technologies, Inc.
Grouting of 572 sewer services in 20,500 LF of mainline sewer systems
2016 – 2018
Todd Hester, Project Manager
3061 Dublin Circle
Bessemer, AL 35022
Phone: 205-572-5077
thester@aegion.com

Town of Sullivan's Island
PO Box 247
Sullivan's Island, SC 29842
Grouting of 38,500 LF of Mainlines & Testing & Sealing of 500 Laterals
2014 – 2016
Greg Gress - Manager
Water & Sewer Department
Phone: 843-883-5748
ggress@sullivanisland-sc.com

Jefferson County 2014 Sanitary Sewer Rehabilitation Contract
Birmingham, AL
General Contractor-Heitkamp
Grouting of 425 sewer services
2015 - 2106
Mike Sanders, Project Manager
Heitkamp, Inc.
4125 Welcome All Road Suite 100
Atlanta, GA 30349
Phone: 475-235-9674
msanders@heitkamp.com

Western Virginia Water Authority
2012 South Jefferson Street
Roanoke, VA 24014
Old Roanoke River Interceptor Sewer System Rehabilitation
Cleaning, CCTV Inspection, Pipe Grouting, Manhole Rehabilitation
12,500 linear feet of 36" to 48" Pipe Grouting
2013 – 2014
Mark Sink - Engineering Coordinator
(540) 537-3460
Mark.sink@westernvawater.org

R. H. Moore Company, Inc
PO Box 830
Murrells Inlet, SC 29576
Steve Thornton – 910-308-5965
Set13@earthlink.net
Eric Buckner – 843-340-7214
ericbuckner@rhmoorecompany.com
Various Pipe Grouting Projects Ranging from 12" – 30" (2014 – 2018)

Portland Utilities Construction Company, LLC
PO Box 510
Portland, TN 37148
Kingsport, TN ARC Sewer Systems Project - 2016
Cleaning, CCTV Inspection, and Grouting of approximately 4,500 LF of 30" Sewer Interceptor
Gary Testa – 423-273-2261
garytesta@pucc.org

Charlotte Mecklenburg Utilities
4100 West Tyvola Rd.
Charlotte, NC 28208
John Fishburne
(980) 722-0792
1,000 linear feet of 48" Sanitary Sewer Pipe Grouting @ Freedom Park

APPENDIX C

2019 Treated Sewage Adjustment
Warren County Water District - Sewer Division

SEWER SYSTEM

	<u>Annual Gals Disposed</u>	<u>Base Rate</u>	<u>Disposal Cost at Base Rate</u>	<u>New Rate</u>	<u>Disposal Cost at New Rate</u>	<u>Increased Disposal Cost</u>
All Connection Points	951,741,000	\$2.4917	\$ 2,371,453	\$2.8377	\$2,700,755	\$ 329,302
				Total Water Sold (x 1000)		1,213,832
				Increased Disposal Cost		\$ 329,302
				Treated Sewage Adjustment		\$ 0.28

APPENDIX D

FORECAST OF WATER USAGE AND INCOME

5/8" METERS:

<u>USAGE/MON</u>	<u>AVG</u>	<u>AVG</u>	<u>BILL</u>	<u>RESIDENTIAL</u>			<u>NON-RESIDENTIAL</u>		
				<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>
0 TO 2,000	1,876	11.77	17,876	33,535,376	\$210,401	1,546	2,900,296	\$18,196	
2 TO 3,000	2,519	14.40	13,200	33,250,800	\$190,080	192	483,648	\$2,765	
3 TO 4,000	3,490	19.31	12,980	45,300,200	\$250,644	138	481,620	\$2,665	
4 TO 5,000	4,474	24.29	9,676	43,290,424	\$235,030	97	433,978	\$2,356	
5 TO 6,000	5,371	28.83	6,449	34,637,579	\$185,925	70	375,970	\$2,018	
6 TO 7,000	6,161	32.82	4,019	24,761,059	\$131,904	65	400,465	\$2,133	
7 TO 8,000	7,168	37.92	2,532	18,149,376	\$96,013	48	344,064	\$1,820	
8 TO 9,000	8,465	43.95	1,327	11,233,055	\$58,322	35	296,275	\$1,538	
9 TO 10,000	9,470	47.89	890	8,428,300	\$42,622	35	331,450	\$1,676	
10 TO 11,000	10,484	51.87	587	6,154,108	\$30,448	40	419,360	\$2,075	
11 TO 12,000	11,482	55.78	411	4,719,102	\$22,926	17	195,194	\$948	
12 TO 14,000	12,919	61.41	454	5,865,226	\$27,880	31	400,489	\$1,904	
14 TO 16,000	14,903	69.19	244	3,636,332	\$16,882	21	312,963	\$1,453	
16 TO 18,000	16,953	77.23	183	3,102,399	\$14,133	17	288,201	\$1,313	
18 TO 20,000	18,877	84.77	116	2,189,732	\$9,833	13	245,401	\$1,102	
20 TO 25,000	22,161	96.99	180	3,988,980	\$17,458	26	576,186	\$2,522	
25 TO 30,000	27,288	115.55	79	2,155,752	\$9,128	20	545,760	\$2,311	
30 TO 40,000	34,660	142.24	88	3,050,080	\$12,517	41	1,421,060	\$5,832	
40 TO 50,000	45,269	180.64	25	1,131,725	\$4,516	20	905,380	\$3,613	
50 TO 75,000	60,780	236.79	41	2,491,980	\$9,708	33	2,005,740	\$7,814	
75 TO 100,000	86,151	328.64	18	1,550,718	\$5,916	2	172,302	\$657	
100 TO 150,000	112,507	417.79	5	562,535	\$2,089	1	112,507	\$418	
150 TO 200,000	170,580	598.98	3	511,740	\$1,797	1	170,580	\$599	
200 TO 300,000	239,350	813.54	1	239,350	\$814	0	0	0	
300 TO 400,000	0	0.00	0	0	0	0	0	0	
400 TO 500,000	0	0.00	0	0	0	0	0	0	
500 TO ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				71,384	293,935,928	\$1,586,985	2,509	13,818,889	\$67,728
AVG. RATE					\$5.38				
AVG. USAGE					4,118		5,508		

1" METERS

<u>USAGE/MON</u>	<u>AVG</u>	<u>AVG</u> <u>BILL</u>	<u>RESIDENTIAL</u>			<u>NON-RESIDENTIAL</u>		
			<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>
0 TO 5,000	2,213	26.94	648	1,434,024	\$17,457	858	1,898,754	\$23,115
5 TO 6,000	5,460	29.27	127	693,420	3,717	103	562,380	3,015
6 TO 7,000	6,469	34.37	78	504,582	2,681	99	640,431	3,403
7 TO 8,000	7,445	39.31	75	558,375	2,948	96	714,720	3,774
8 TO 9,000	8,479	44.00	43	364,597	1,892	96	813,984	4,224
9 TO 10,000	9,482	47.93	33	312,906	1,582	83	787,006	3,978
10 TO 11,000	10,474	51.82	41	429,434	2,125	81	848,394	4,197
11 TO 12,000	11,497	55.83	14	160,958	782	63	724,311	3,517
12 TO 14,000	12,875	61.23	28	360,500	1,714	86	1,107,250	5,266
14 TO 16,000	15,101	69.96	14	211,414	979	64	966,464	4,477
16 TO 18,000	17,052	77.60	7	119,364	543	48	818,496	3,725
18 TO 20,000	19,017	85.31	5	95,085	427	42	798,714	3,583
20 TO 25,000	22,300	97.49	14	312,200	1,365	90	2,007,000	8,774
25 TO 30,000	27,344	115.75	5	136,720	579	61	1,667,984	7,061
30 TO 40,000	34,371	141.18	8	274,968	1,129	90	3,093,390	12,706
40 TO 50,000	44,532	177.97	2	89,064	356	57	2,538,324	10,144
50 TO 75,000	58,688	229.21	5	293,440	1,146	63	3,697,344	14,440
75 TO 100,000	88,939	338.72	1	88,939	339	25	2,223,475	8,468
100 TO 150,000	122,032	447.50	0	0	0	23	2,806,736	10,293
150 TO 200,000	180,535	630.03	0	0	0	6	1,083,210	3,780
200 TO 300,000	267,027	899.88	0	0	0	6	1,602,162	5,399
300 TO 400,000	355,629	1176.32	0	0	0	14	4,978,806	16,468
400 TO 500,000	440,847	1442.20	0	0	0	3	1,322,541	4,327
500 TO ABOVE	10,856,031	33937.58	0	0	0	14	151,984,434	475,126
SUBTOTALS			1,148	6,439,990	\$41,761	2,171	189,686,310	\$643,260

1 1/2" METERS:

<u>USAGE/MON</u>		<u>AVG</u>	<u>AVG</u>	<u>RESIDENTIAL</u>			<u>NON-RESIDENTIAL</u>		
			<u>BILL</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>
0 TO	10,000	4,665	49.77	0	0	0	134	625,110	\$6,669
10 TO	11,000	10,653	52.33	0	0	0	17	181,101	890
11 TO	12,000	11,564	55.90	0	0	0	11	127,204	615
12 TO	14,000	13,189	62.27	0	0	0	36	474,804	2,242
14 TO	16,000	15,045	69.55	0	0	0	33	496,485	2,295
16 TO	18,000	16,882	76.75	0	0	0	28	472,696	2,149
18 TO	20,000	19,050	85.25	0	0	0	24	457,200	2,046
20 TO	25,000	22,748	98.92	0	0	0	21	477,708	2,077
25 TO	30,000	27,906	117.59	0	0	0	17	474,402	1,999
30 TO	40,000	34,216	140.43	0	0	0	57	1,950,312	8,005
40 TO	50,000	44,422	177.38	0	0	0	32	1,421,504	5,676
50 TO	75,000	62,580	243.11	0	0	0	45	2,816,100	10,940
75 TO	100,000	88,913	338.44	0	0	0	23	2,044,999	7,784
100 TO	150,000	113,500	420.69	0	0	0	16	1,816,000	6,731
150 TO	200,000	177,483	620.32	0	0	0	6	1,064,898	3,722
200 TO	300,000	262,050	884.17	0	0	0	12	3,144,600	10,610
300 TO	400,000	338,708	1123.34	0	0	0	13	4,403,204	14,603
400 TO	500,000	429,400	1406.30	0	0	0	5	2,147,000	7,032
500 TO	ABOVE	863,857	2761.80	<u>0</u>	<u>0</u>	<u>0</u>	<u>7</u>	<u>6,046,999</u>	<u>19,333</u>
SUBTOTALS				0	0	\$0	537	30,642,326	\$115,417

2" METERS:

USAGE/MON	AVG	AVG BILL	RESIDENTIAL			NON-RESIDENTIAL		
			BILLS	USAGE	INCOME	BILLS	USAGE	INCOME
0 TO 16,000	12,307	72.66	9	110,763	654	322	3,962,854	23,397
16 TO 18,000	16,836	75.94	1	16,836	76	13	218,868	987
18 TO 20,000	19,213	85.25	0	0	0	8	153,704	682
20 TO 25,000	22,804	98.49	0	0	0	47	1,071,788	4,629
25 TO 30,000	27,396	115.11	0	0	0	68	1,862,928	7,827
30 TO 40,000	35,593	144.79	2	71,186	290	97	3,452,521	14,045
40 TO 50,000	44,651	177.58	0	0	0	76	3,393,476	13,496
50 TO 75,000	61,256	237.69	0	0	0	86	5,268,016	20,441
75 TO 100,000	86,226	328.08	0	0	0	72	6,208,272	23,622
100 TO 150,000	119,579	439.03	0	0	0	58	6,935,582	25,464
150 TO 200,000	179,035	624.53	0	0	0	34	6,087,190	21,234
200 TO 300,000	242,898	823.78	0	0	0	45	10,930,410	37,070
300 TO 400,000	339,550	1125.34	0	0	0	22	7,470,100	24,757
400 TO 500,000	450,057	1470.12	0	0	0	7	3,150,399	10,291
500 TO 750,000	643,517	2073.71	0	0	0	29	18,661,993	60,138
750 TO 1.0 M	864,759	2763.99	0	0	0	26	22,483,734	71,864
1 TO 1.5 M	1,253,076	3975.54	0	0	0	17	21,302,292	67,584
1.5 TO ABOVE	8,447,335	26421.63	0	0	0	35	295,656,725	924,757
SUBTOTALS			12	198,785	\$1,020	1,062	418,270,852	\$1,352,285

3" METERS:

USAGE/MON	AVG	AVG BILL	RESIDENTIAL			NON-RESIDENTIAL		
			BILLS	USAGE	INCOME	BILLS	USAGE	INCOME
0 TO 30,000	22,223	122.09	0	0	0	9	200,007	1,099
30 TO 40,000	35,980	143.74	0	0	0	5	179,900	719
40 TO 50,000	45,400	177.84	0	0	0	6	272,400	1,067
50 TO 75,000	61,875	237.48	0	0	0	16	990,000	3,800
75 TO 100,000	89,250	336.58	0	0	0	2	178,500	673
100 TO 150,000	126,375	457.78	0	0	0	4	505,500	1,831
150 TO 200,000	170,911	596.73	0	0	0	9	1,538,199	5,371
200 TO 300,000	234,256	794.37	0	0	0	9	2,108,304	7,149
300 TO 400,000	0	122.09	0	0	0	0	0	0
400 TO 500,000	488,000	1586.05	0	0	0	1	488,000	1,586
500 TO 750,000	654,423	2105.29	0	0	0	20	13,088,460	42,106
750 TO 1.0 M	868,844	2774.28	0	0	0	9	7,819,596	24,969
1 TO 1.5 M	1,373,725	4349.51	0	0	0	8	10,989,800	34,796
1.5 TO 2.0 M	1,695,350	5352.98	0	0	0	6	10,172,100	32,118
2 TO 2.5 M	2,084,100	6565.88	0	0	0	2	4,168,200	13,132
2.5 TO 3.0 M	0	122.09	0	0	0	0	0	0
3 TO 3.5 M	0	122.09	0	0	0	0	0	0
3.5 TO ABOVE	0	122.09	0	0	0	0	0	0
SUBTOTALS			0	0	\$0	106	52,698,966	\$170,416

4" METERS:

USAGE/MON	AVG	AVG BILL	RESIDENTIAL			NON-RESIDENTIAL		
			BILLS	USAGE	INCOME	BILLS	USAGE	INCOME
0 TO 50,000	8,133	190.39	0	0	0	15	121,995	2,856
50 TO 75,000	65,414	318.59	0	0	0	4	261,656	1,274
75 TO 100,000	91,448	412.83	0	0	0	4	365,792	1,651
100 TO 150,000	129,084	593.13	0	0	0	5	645,420	2,966
150 TO 200,000	171,251	724.69	0	0	0	14	2,397,514	10,146
200 TO 300,000	225,679	894.51	0	0	0	6	1,354,074	5,367
300 TO 400,000	0	190.39	0	0	0	0	0	0
400 TO 500,000	500,000	1750.39	0	0	0	1	500,000	1,750
500 TO 750,000	624,167	2137.79	0	0	0	6	3,745,002	12,827
750 TO 1.0 M	0	190.39	0	0	0	0	0	0
1 TO 1.5 M	1,236,000	4046.71	0	0	0	5	6,180,000	20,234
1.5 TO ABOVE	4,967,792	15689.90	0	0	0	22	109,291,424	345,178
SUBTOTALS			0	0	\$0	82	124,862,877	\$404,249

6" METERS:

USAGE/MON	AVG	AVG BILL	RESIDENTIAL			NON-RESIDENTIAL		
			BILLS	USAGE	INCOME	BILLS	USAGE	INCOME
0 TO 100,000	4,032	361.14	0	0	0	11	44,352	3,973
100 TO 150,000	0	0.00	0	0	0	0	0	0
150 TO 200,000	0	0.00	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO 750,000	0	0.00	0	0	0	0	0	0
750 TO 1.0 M	0	0.00	0	0	0	0	0	0
1.0 TO 1.5 M	0	0.00	0	0	0	0	0	0
1.5 TO 2.0 M	0	0.00	0	0	0	0	0	0
2.0 TO 2.5 M	0	0.00	0	0	0	0	0	0
2.5 TO 3.0 M	0	0.00	0	0	0	0	0	0
3.0 TO 4.0 M	3,706,000	13414.86	0	0	0	1	3,706,000	13,415
4.0 TO 5.0 M	4,470,250	16181.45	0	0	0	4	17,881,000	64,726
5.0 TO ABOVE	6,586,143	23840.98	0	0	0	6	39,516,858	143,046
SUBTOTALS			0	0	\$0	22	61,148,210	\$225,160

Smiths Grove

5/8" METERS:

<u>USAGE/MON</u>	<u>AVG</u>	<u>AVG</u> <u>BILL</u>	<u>RESIDENTIAL</u>			<u>NON-RESIDENTIAL</u>		
			<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>
0 TO 2,000	1,023	18.46	1,324	1,354,452	\$24,441	333	340,659	\$6,147
2 TO 3,000	2,493	21.04	936	2,333,448	19,693	47	117,171	989
3 TO 4,000	3,492	26.26	806	2,814,552	21,166	20	69,840	525
4 TO 5,000	4,455	31.30	543	2,419,065	16,996	15	66,825	470
5 TO 6,000	5,445	36.48	312	1,698,840	11,382	9	49,005	328
6 TO 7,000	6,455	41.76	171	1,103,805	7,141	8	51,640	334
7 TO 8,000	7,495	47.20	83	622,085	3,918	13	97,435	614
8 TO 9,000	8,469	52.19	52	440,388	2,714	17	143,973	887
9 TO 10,000	9,513	57.44	26	247,338	1,493	3	28,539	172
10 TO 11,000	10,357	61.67	18	186,426	1,110	2	20,714	123
11 TO 12,000	11,426	67.04	11	125,686	737	4	45,704	268
12 TO 14,000	13,066	75.27	18	235,188	1,355	10	130,660	753
14 TO 16,000	15,020	85.08	8	120,160	681	12	180,240	1,021
16 TO 18,000	16,753	93.78	4	67,012	375	2	33,506	188
18 TO 20,000	18,460	102.35	2	36,920	205	2	36,920	205
20 TO 25,000	22,530	121.21	5	112,650	606	1	22,530	121
25 TO 30,000	26,148	137.13	5	130,740	686	0	0	0
30 TO 40,000	33,740	170.54	1	33,740	171	2	67,480	341
40 TO 50,000	0	18.46	0	0	0	0	0	0
50 TO 75,000	60,355	0.00	1	60,355	0	1	60,355	0
75 TO 100,000	0	0.00	0	0	0	0	0	0
100 TO 150,000	0	0.00	0	0	0	0	0	0
150 TO 200,000	0	0.00	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS			4,326	14,142,850	\$114,869	501	1,563,196	\$13,486

1" METERS

<u>USAGE/MON</u>	<u>AVG</u>	<u>AVG</u> <u>BILL</u>	<u>RESIDENTIAL</u>			<u>NON-RESIDENTIAL</u>		
			<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>BILLS</u>	<u>USAGE</u>	<u>INCOME</u>
0 TO 5,000	1,901	34.15	48	91,248	\$1,639	52	98,852	\$1,776
5 TO 6,000	5,553	37.04	6	33,318	222	0	0	0
6 TO 7,000	6,426	41.61	7	44,982	291	0	0	0
7 TO 8,000	7,623	47.87	6	45,738	287	1	7,623	48
8 TO 9,000	8,650	53.10	1	8,650	53	0	0	0
9 TO 10,000	9,240	56.06	2	18,480	112	0	0	0
10 TO 11,000	10,140	60.58	2	20,280	121	0	0	0
11 TO 12,000	0	34.15	0	0	0	0	0	0
12 TO 14,000	12,320	71.53	0	0	0	1	12,320	72
14 TO 16,000	0	0.00	0	0	0	0	0	0
16 TO 18,000	17,270	96.38	0	0	0	1	17,270	96
18 TO 20,000	19,535	0.00	0	0	0	2	39,070	0
20 TO 25,000	22,230	119.89	0	0	0	1	22,230	120
25 TO 30,000	28,102	145.73	0	0	0	5	140,510	729
30 TO 40,000	32,993	167.25	0	0	0	7	230,951	1,171
40 TO 50,000	45,757	223.41	0	0	0	7	320,299	1,564
50 TO 75,000	65,752	311.39	0	0	0	9	591,768	2,803
75 TO 100,000	87,347	406.41	0	0	0	6	524,082	2,438
100 TO 150,000	121,037	546.23	0	0	0	3	363,111	1,639
150 TO 200,000	0	34.15	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS			72	262,696	\$2,726	95	2,368,086	\$12,454

2" METERS:

USAGE/MON	AVG	AVG BILL	RESIDENTIAL			NON-RESIDENTIAL		
			BILLS	USAGE	INCOME	BILLS	USAGE	INCOME
0 TO 16,000	2,211	72.66	0	0	0	28	61,908	2,034
16 TO 18,000	16,500	0.00	0	0	0	2	33,000	0
18 TO 20,000	19,129	0.00	0	0	0	7	133,903	0
20 TO 25,000	23,060	99.42	0	0	0	10	230,600	994
25 TO 30,000	28,033	117.42	0	0	0	9	252,297	1,057
30 TO 40,000	35,167	143.24	0	0	0	9	316,503	1,289
40 TO 50,000	45,100	179.20	0	0	0	15	676,500	2,688
50 TO 75,000	60,456	234.79	0	0	0	16	967,296	3,757
75 TO 100,000	88,289	335.55	0	0	0	9	794,601	3,020
100 TO 150,000	108,533	404.56	0	0	0	3	325,599	1,214
150 TO 200,000	0	0.00	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO 750,000	0	0.00	0	0	0	0	0	0
750 TO 1.0 M	0	0.00	0	0	0	0	0	0
1.0 TO 1.5 M	0	0.00	0	0	0	0	0	0
1.5 TO ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS			0	0	\$0	108	3,792,207	\$16,053

TOTALS	76,942	314,980,249	1,747,361	7,193	898,851,919	3,020,509
TOTAL CUSTOMERS	6,412			599		
AVG. CONSUMPTION PER MONTH		4,094			124,962	

ANNUAL WASTEWATER SOLD	314,980,249	898,851,919
ANNUAL WASTEWATER RETURNED	246,969,600	704,771,400
ANNUAL REVENUE	\$1,747,361	\$3,020,509

TOTAL ANNUAL WATER SOLD	1,213,832,168
TOTAL ANNUAL WATER PURCH. OR PROD.	951,741,000
TOTAL ANNUAL REVENUE	\$4,767,870



LEGEND

EXISTING GRAVITY —

EXISTING FORCE MAIN —

PROPOSED REHABILITATION —

LIFT STATION ●

PLUM SPRINGS AREA SEWER
REHABILITATION PROJECT
PROJECT #300873

SCALE: 1"=1400'
DATE: 7/2/18
PROJECT #: 300873
DESIGNED: R.J.L.
DRAWN: J.N.L.
CHECKED: R.J.L.

REVISIONS:

NO.:	DATE:

Image courtesy of USGS © 2016 Microsoft Corporation © 2016 HER