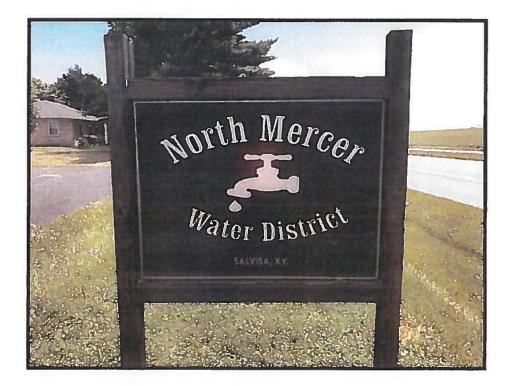
NORTH MERCER WATER DISTRICT 2019 WATER SYSTEM IMPROVEMENTS FINAL ENGINEERING REPORT



NORTH MERCER WATER DISTRICT

4795 Louisville Road

Salvisa, KY 40372

August, 2021



SECTION 1 PROJECT PLANNING

1.01 LOCATION

The North Mercer Water District (NMWD) was formed in 1964. The existing system consists of approximately 340 miles of water lines with five distribution water storage tanks and six booster pump stations that serve approximately 4,524 customers in Anderson, Boyle, Mercer and Washington Counties.

The NMWD is located in Central Kentucky in the City of Salvisa in Mercer County. The NMWD serves the majority of northern, western and southern Mercer County and parts of Anderson, Boyle and Washington Counties including the communities of Salvisa, Cornishville, Mackville, McAfee, Mayo and Bohon.

The topography of Mercer County is gently rolling to hilly, with the steepest slopes and greatest local relief being in the eastern edge of the county near the deeply incised valleys of the Dix and Kentucky Rivers. The area of lowest local relief is in the vicinity of Harrodsburg. Ridgetop elevations generally range between 900 and 950. The highest elevation in the county, 1,000 feet, is found on a ridge just south of Kentucky 152 about 2.5 miles east of the center of Harrodsburg. Elevations of communities within the NMWD service area include Bohon at 897 feet, Cornishville at 733 feet, Mayo at 900 feet and Salvisa at 785 feet.

1.02 ENVIRONMENTAL RESOURCES PRESENT

The major environmental features within the proposed area feature a variety of landforms and topographic changes from extremely steep to relatively flat terrain. The gradual undulating terrain allows for potable water to be transported with limited booster stations. Water pressures range from 30 psi to over 185 psi in sections of the system. Many of the hollows are in floodplains in particular along the Dix River and Kentucky River along the eastern boundary of the county. No known historic sites are noted in the planning area.

1.03 POPULATION TRENDS

The census information reviewed shows a slight decrease in the population projections over the next twenty years. Since the establishment of the NMWD the population of Mercer County has continued to grow. The growth of the North Mercer Water District's system can be attributed to numerous water distribution expansion projects. The population projections for Mercer County are shown below.

	2020	2025	2030	2035	2040
Population	21,260	21,255	20,831	20,407	19,907



1.04 COMMUNITY ENGAGEMENT

The NMWD will be holding a public meeting inviting all individuals affected by this project. This meeting will communicate the need for the project and the resulting system improvements that will be accomplished through the project.

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SECTION 2 EXISTING FACILITIES

2.01 LOCATION

The NMWD is located in Central Kentucky in the City of Salvisa in Mercer County. The NMWD serves the majority of northern, western and southern Mercer County and parts of Anderson, Boyle and Washington Counties including the communities of Salvisa, Cornishville, Mackville, McAfee, Mayo and Bohon. Maps of the project showing the extent of the water system improvements is located at the end of this report (Appendix A).

2.02 HISTORY

The NMWD system was originally built in the 1960's. The NMWD purchases its water from the City of Harrodsburg and the South Anderson Water District. Numerous water line extension projects have been developed over the past 60 years to establish the current NMWD customer base which serves approximately 97% of potential customers in the service area of Mercer County.

2.03 CONDITION OF EXISTING FACILITIES

NMWD currently purchases an average of 800,000 gallons a day to serve its customers. The system is in good to fair condition and work continues to improve the older, undersized sections of the NMWD.

Several of the original transmission water mains that transport water to the NMVVD customers are of asbestos cement material. Additional transmission mains transport water via older problematic PVC Class 160 water mains. Due to the age and condition of these mains the NMVVD can experience underserved water supply/pressure to areas of the system due to failure of these water mains.

2.04 FINANCIAL STATUS OF ANY EXISTING FACILITIES

Annual audits will be submitted to Rural Development as required by the RD bond issue. A customer breakdown will be provided in the Summary Addendum.

As with the majority of utilities across the country, the NMWD has seen its operating expenses rise over the past several years. Electric costs and health insurance are the expenses that have seen the largest increase.

SECTION 3 NEED FOR PROJECT

3.01 HEALTH, SANITATION, AND SECURITY

The proposed project will replace approximately 21.0 miles of distribution mains that are approximately 50% of asbestos cement material and 50% of older problematic PVC Class 160 water main. The project will also include replacing service line to approximately 500 customer service meters. Improving water turnover/water age by eliminating older, problematic distribution mains and removing dead ends by looping some of the existing water lines will improve the quality of water for residents in these particular areas and also provide alternatives for service during emergency outages.

Many of the families within the project areas currently receive their potable water via asbestos cement distribution water mains. Due to the age and material of these mains, breaks are more common and have led to issues with continuity of service. This exposes some families to poor quality water and limits the amount of water available to them.

The proposed project will help to improve the overall service from a water quality and reliability standpoint to the NMWD customers.

3.02 AGING INFRASTRUCTURE

The existing water mains to be replaced with this project are anywhere from 35 to 55 years old. Due to the age of these water mains the District has experienced continued operational issues that only become worse as time goes on. These issues include breaks and leaks of the water mains which create financial strains on the District through the allocation of its resources. Additionally, this aging infrastructure adds to the District's burden of maintaining a low water loss rate in its distribution system.

3.03 REASONABLE GROWTH

Growth has been considered a significant factor in the need for the proposed project. As the District's customer base has increased significantly in the last 35 to 55 years the need to replace these older water mains to offer sustained water service to its customer base is a priority.



SECTION 4 ALTERNATIVES CONSIDERED

4.01 Description

Alternatives considered included replacing asbestos cement distribution mains with smaller size distribution mains but this does not provide NMWD with any hydraulic improvements which in turn help to reduce operation and maintenance expenses. An additional alternative considered was to only replace the lines as they deteriorate to the point of failure. This is cost prohibitive for the NMWD and does not benefit the customers by providing a safe, dependable, high quality product.

4.02 Design Criteria

The design criteria that will be used on the project include hydraulic analysis of the existing system to determine that adequate pressures are realized throughout the distribution system along with examining flushing velocities. By properly sizing the distribution mains to be installed the District will provide improved service to its customer base while also maintaining potable water of high quality.

4.03 Map

Maps of the project showing the extent of the water system improvements are located at the end of this report (Appendix A).

4.04 Environmental Impacts

An environmental report detailing the potential impacts of the project is being undertaken with this project. Once the report is finalized any potential impacts will be taken into consideration and any necessary remediation measures will be taken to avoid any negative impact to the environment.

4.05 Land Requirements

Land requirements associated with this project will include the need for easements and encroachment permits, both public and private, for the installation of water main. Those easements and permits will be obtained prior to any construction beginning.

4.06 Potential Construction Problems

With any water main replacement project one of the main potential construction problems occur with the existing infrastructure that is in place. It is imperative to



maintain existing water service to all customers during construction and avoid the existing water main during construction. This problem is considered during the design of the project and all precautions are taken to limit this potential risk.



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SECTION 5 SELECTION OF AN ALTERNATIVE

5.01 Life Cycle Cost Analysis

In the selection of the preferred alternative for this project the life cycle cost of the materials to be utilized has been considered. The main material to be utilized is the water main. The water main will be of PVC material and recent studies estimate a service life of up to 100 years. This length of service life provides for lower operating and maintenance costs to be realized by the District.

5.02 Non-Monetary Factors

The non-monetary factors considered are the ability to provide service to the existing customer base. With new water mains the existing customer base will have improved service and a higher quality product due to the elimination of existing asbestos cement water mains.



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SECTION 6 PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

6.01 Preliminary Project Design

The proposed project and recommended alternative will replace approximately 21.8 miles of distribution mains that are approximately 50% of asbestos cement material and 50% of older problematic PVC Class 160 water main. The project will also include replacing service line to approximately 500 customer service meters. Improving water turnover/water age by eliminating older, problematic distribution mains and removing dead ends by looping some of the existing water lines will improve the quality of water for residents in these particular areas and also provide alternatives for service during emergency outages.

Additionally, should project funds be available the project will include the installation of automatic flush hydrants, the replacement of a control valve in an existing pump station (US 127), additional chlorinators throughout the distribution system, well testing to examine the potential for additional sources of water, building improvements for the existing maintenance building, security equipment at the main office and equipment purchases, such as a dump truck.

A summary of the proposed project is as follows:

		Approximate Year in Service	Approximate Age (in years)
	Perryville Road	1962	55
	McCouns Ferry Road	1962	55
	Old Louisville Road	1962	55
Deplessment of 04.0	Cummins Ferry	1962	55
Replacement of 21.8 miles of distribution	Kirkwood/Bondville Road	1962	55
main	Garriott Lane	1962	55
TIGUT	McAfee Road	1982	37
	Mackville Road	1982	37
	Louisville Road	1982	37
	Rose Lane	1983	36
	Edgewood Drive	1983	36
	Catlett Lane	1983	36
	Oakland Lane	1983	36
	Rose Hill Lane	1983	36



6.02 Project Schedule

The proposed project schedule for Contract 1 is:

- 1. Secured Letter of Conditions from USDA RD July 28, 2020
- 2. Secured Land/Easement/Encroachment Permits May, 2021
- 3. Division of Water Approval June 1, 2020
- 4. Advertise for Bids May, 2021
- 5. Contract Award/Initiate Construction September, 2021
- 6. Substantial Completion March, 2022
- 7. Final Completion/Initiation of Operation April 2022

The proposed project schedule for Contract 2A, 2B, 2C is:

- 1. Secured Letter of Conditions from USDA RD July 28, 2020
- 2. Secured Land/Easement/Encroachment Permits May, 2021
- 3. Division of Water Approval June 1, 2020
- 4. Advertise for Bids May, 2021
- 5. Contract Award/Initiate Construction September, 2021
- 6. Substantial Completion January, 2022
- 7. Final Completion/Initiation of Operation February, 2022

6.03 Permit Requirements

The project has received Division of Water Approval, completed environmental, resolution from Mercer County Fiscal Court for county road encroachments, Norfolk/Southern Railroad permit, and Kentucky Department of Transportation for state road encroachments.



SECTION 7 PROJECT BUDGET AND FUNDING

7.01 Bidding and Recommendations

The project was advertised on May 6, 2021 in the Harrodsburg Herald, and construction bids were opened on May 19, 2021 at 9:00 a.m. at the North Mercer Water District office. The North Mercer Water District decided to break out Contract 2 into three separate contracts in an effort to encourage smaller, local contractors to bid the project and to condense the contract time in order meet CDBG's deadline for expenditure of the grant funds. Listed below is the pertinent information with regarding the bids for the various contracts:

Contract No.	No. of Bidders	Low Bidder	Amount
1	3	BOCA Construction	\$2,073,035.00
2A	2	BOCA Construction	\$1,174,250.00
2B	4	G&W Construction	\$687,650.00
2C	2	BOCA Construction	\$792,100.00

The engineer's estimate in 2019 for all contracts were as follows: Contract 1 - \$1,100,000; Contract 2A - \$660,000; Contract 2B - \$475,000; Contract 2C - \$420,000.

The low bid for all contracts came in over the engineer's estimate due to several factors, including the severe increase in pipe prices and other related materials the water industry over the past few months, price increases due to the lack of chemicals and resin that are part of the manufacturing process, and the COVID 19 pandemic. Additionally, the availability of PVC pipe will be another issue that will need to be addressed with the successful contractors going forward.

Initially, the project budget was for \$3.4 million in total project costs and approximately \$2.6 million in a construction loan from Rural Development. The District decided to pursue a grant from CDBG and required the District to complete an income survey in the southwest portion of the county. Once the income surveys had been completed, it was determined that Contract 2 would qualify for the CDBG grant and the District planned to de-obligate any loan funds that would not be required from Rural Development and use the \$1.0 million in grant from the CDBG grant.

Since the total bids were above the available funds for the project, not all of the project could be constructed and the District held a board meeting on Wednesday, June 2,



2021 to determine which contract(s) would proceed and which would be deleted from the project. The District made the following decisions:

- 1. Approved the Notice of Award for Contract 2A, 2B, and 2C.
- 2. Bluegrass ADD stated that additional monies could be made available to the District through the "Cares Act".
- 3. The amount of additional funds required to complete the entire project is \$1.3 million.
- 4. The project will move forward to construction with Contracts 1 and Contract 2 once the required reviews have been completed by Rural Development and PSC.
- 5. The amount of construction and/or scope of work for Contract 1 will be adjusted to remove certain roads from the contract in order to reduce the cost within the remaining funds.
- 6. The project will move forward, with the BGADD continuing to monitor any additional funding from the *American Rescue Plan Act*.

See Appendix B (Bid Tabulations for Contracts 1 and 2A, 2B, 2C and Letter of Recommendations for all contracts)

The funding for the project consists of the following:

Rural Development Loan CDBG Grant	\$3,400,000 \$1,000,000
Cares Act Grant	<u>\$ 100,000</u>
	\$4,500,000

Total

The revised budget for this project is as follows:

Legal and Administrative	\$ 55,000
Land	\$ 0
Additional Engineering Services PER	\$ 5,000
Rate Study	\$ 5,000
Environmental	\$ 10,000
Expanding Contract 2 to three Contracts	\$ 8,000
Engineering Design and CA	\$ 193,000
Resident Inspection	\$ 107,000
Interest	\$ 60,000
Construction	\$ 3,632,840
CDBG Administration	\$ 50,000
Contingencies (10.3%)	\$ 374,160
Total	\$ 4,500,000

It is the recommendation of Bluegrass Engineering, PLLC to proceed with the construction phase of the project, upon the completion of the remaining Rural Development submittals and construction conferences.

7.02 Annual Operating Costs and Proposed Rates

The proposed rates will allow North Mercer Water District to fully fund the debt service for this project. The project will allow NMWD to realize a reduction in annual operating costs over the course of the loan. The replacement of the problematic water main and aged service line will see a reduction in labor hours, fuel costs and vehicle expense required to monitor and repair the aged system, which should reduce their water loss rate.

The combination of the proposed rates along with the operational efficiencies that are gained with this project will allow NMWD to further strengthen their financial position over the course of the loan.

The proposed rates are as follows:

<u>5/8" Meters</u>	
First 1,000	
Over 1,000	

\$20.00 \$9.40

Minimum Per 1,000 gallons



personal · professional · dependable

<u>1" Meters</u>		
First 2,500	\$35.50	Minimum
Over 2,500	\$9.40	Per 1,000 gallons
<u>2" Meters</u>		
First 10,000	\$105.00	Minimum
Over 10,000	\$9.40	Per 1,000 gallons
Bulk Sales	\$.50	Per 80 gallons



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SECTION 8 CONCLUSIONS AND RECOMMENDATIONS

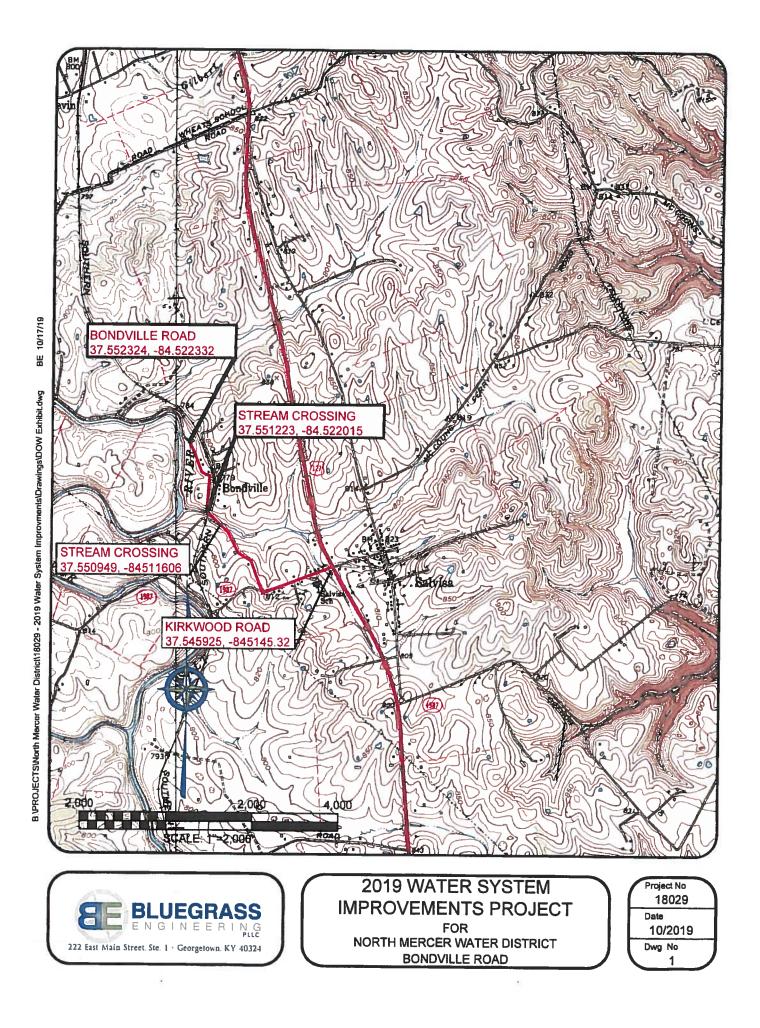
8.01 2019 Water System Improvements

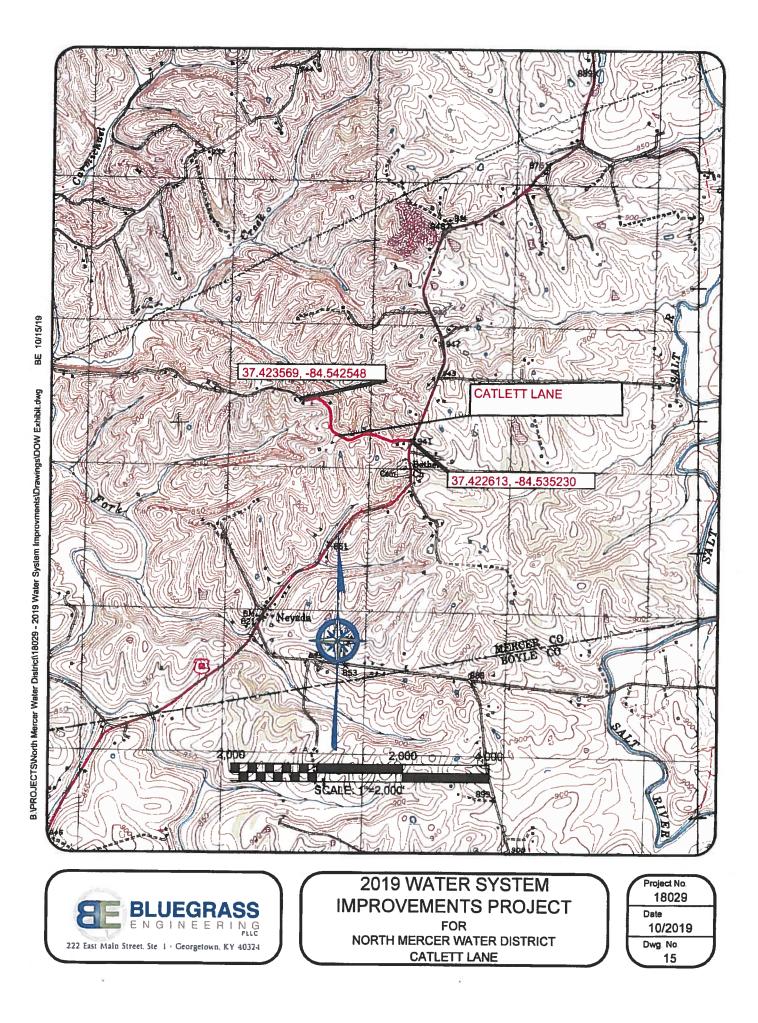
As previously noted in Section 7, Bluegrass Engineering recommends that North Mercer Water District proceed with the following:

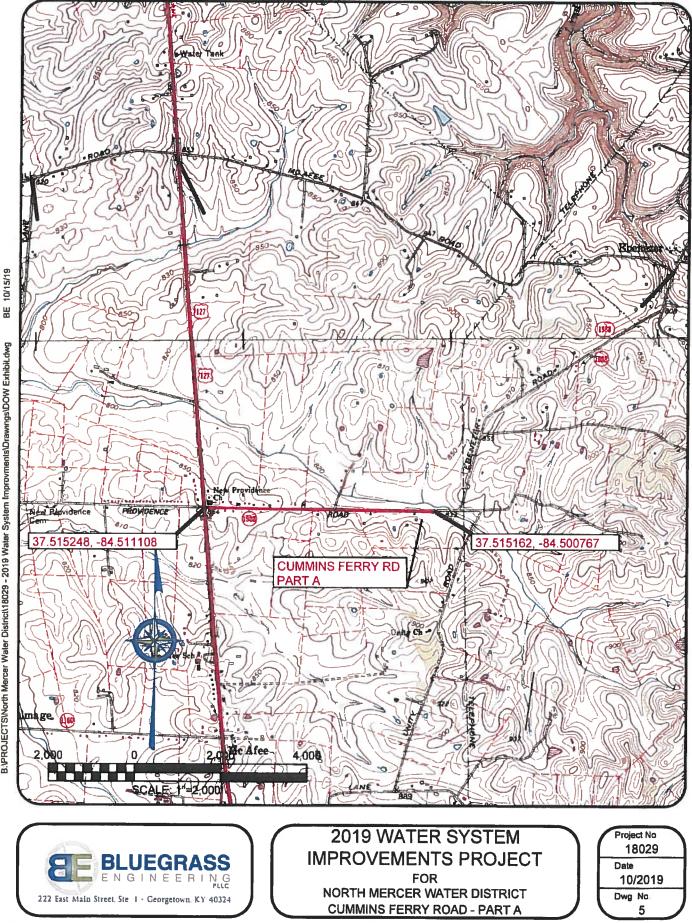
- Proceed with signing contracts and issuance of Notice to Proceed for Contracts 2A, 2B and 2C.
- North Mercer Water District will make a determination of the roads to delete from Contract 1 in order to be within project funds. A deductive change order will be issued at the contact signing and maintain a 10% contingency.
- Upon execution of Contract 1, issue the Notice to Proceed.
- Bluegrass ADD will continue to seek additional grant funds from the American Rescue Plan Act during the construction phase of the project.
- Any contingency funds remaining at the end of the construction period will be utilized to complete the previously deleted water mains from Contract 1.

APPENDIX A PROJECT MAPS

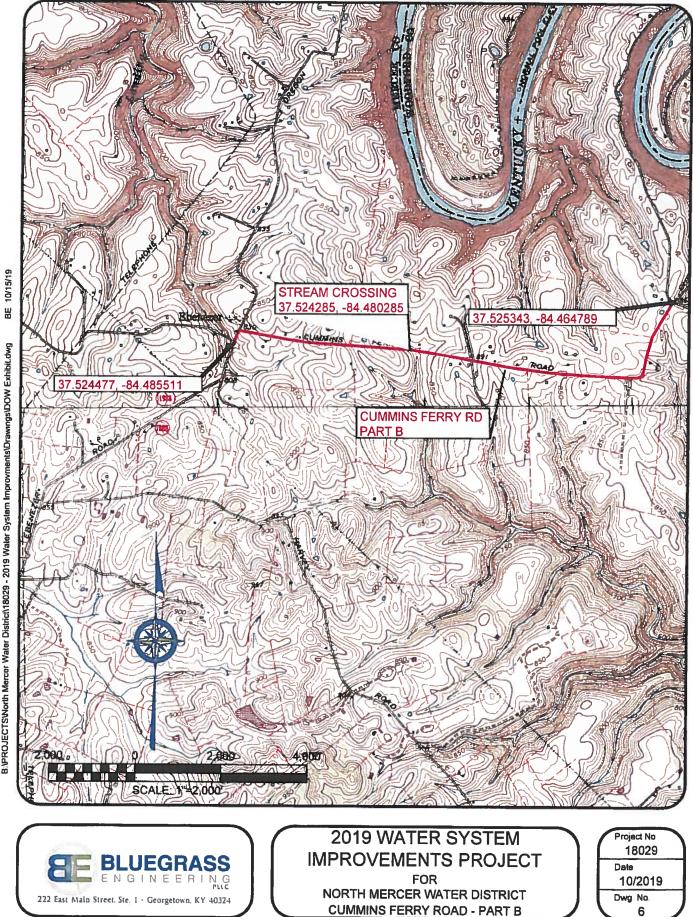




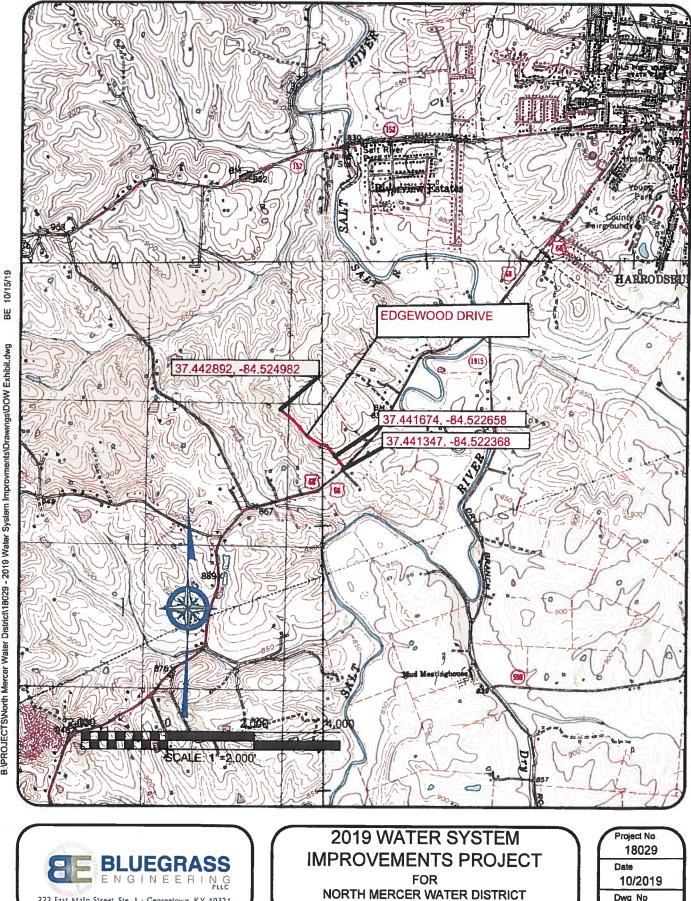




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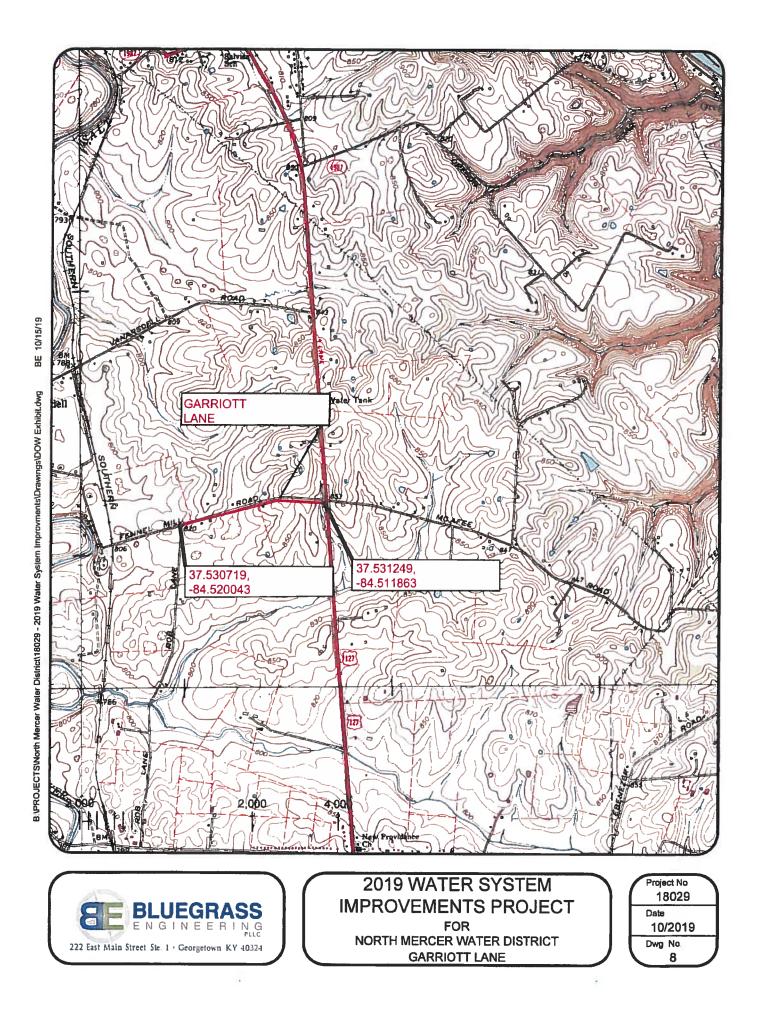
EDGEWOOD DRIVE

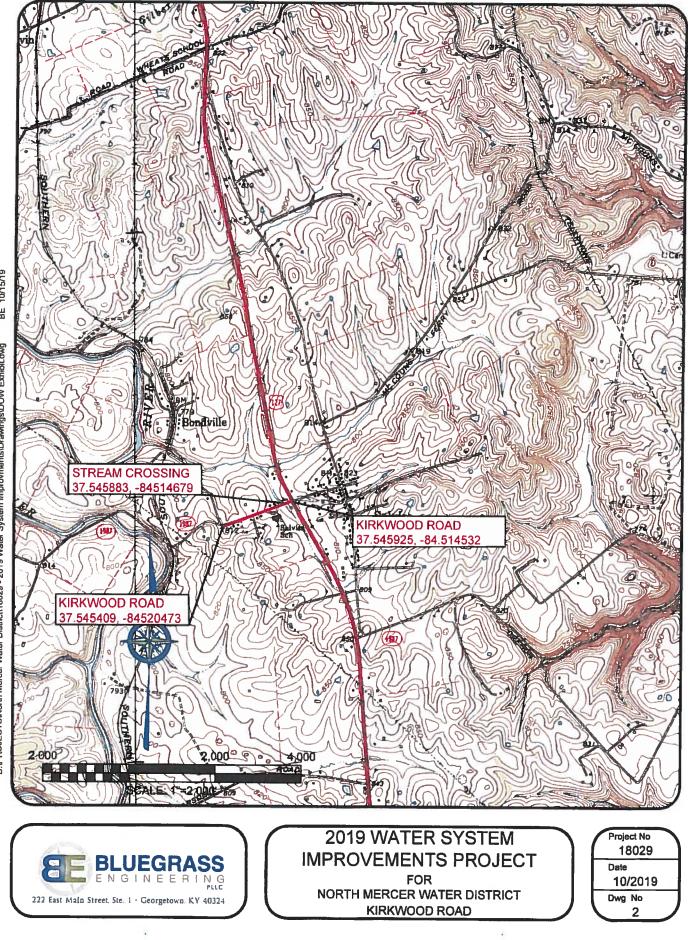
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222 East Main Street, Ste. 1 · Georgetown, KY 40324

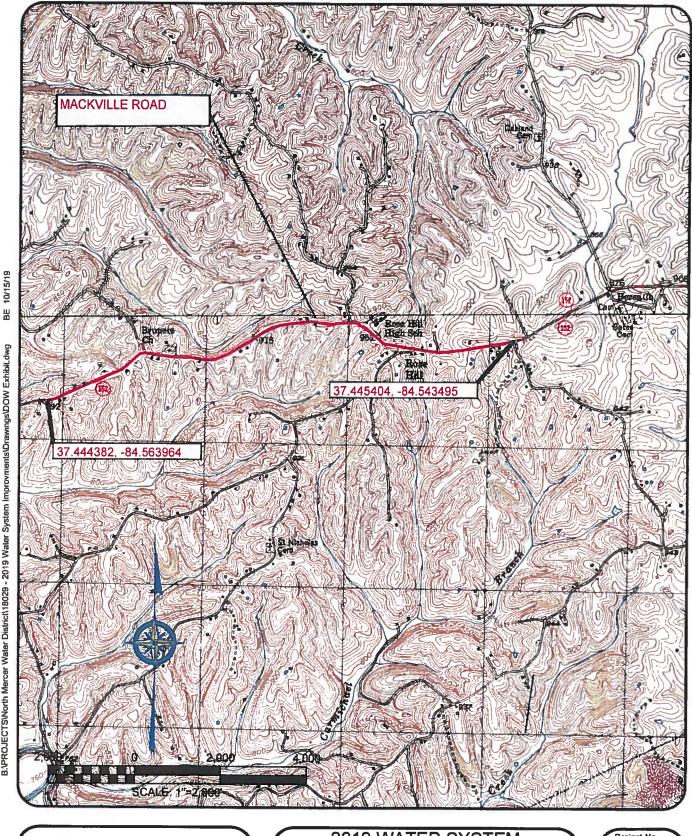
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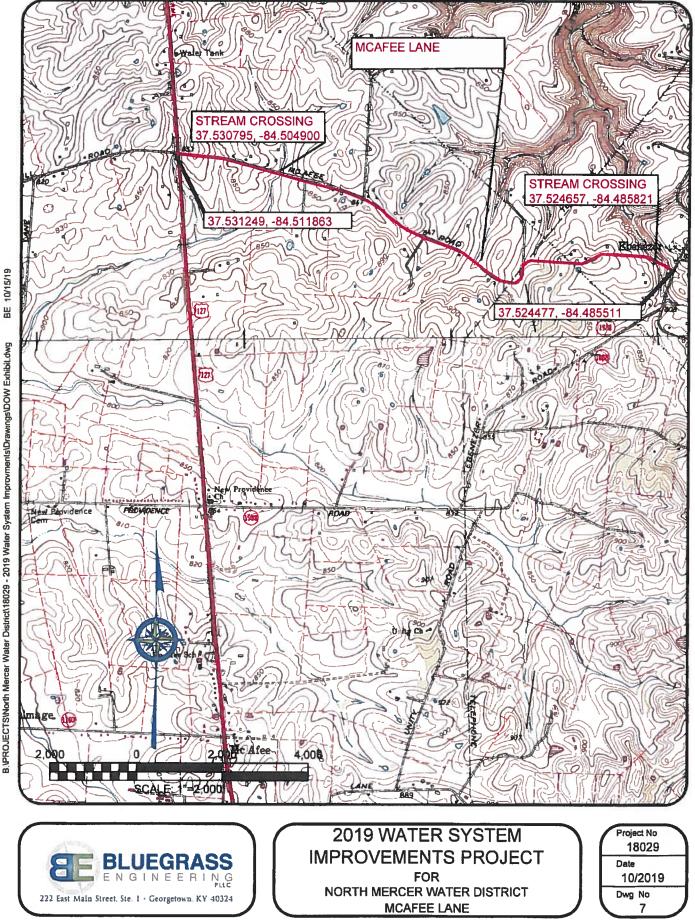
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2019 WATER SYSTEM IMPROVEMENTS PROJECT FOR NORTH MERCER WATER DISTRICT MACKVILLE ROAD

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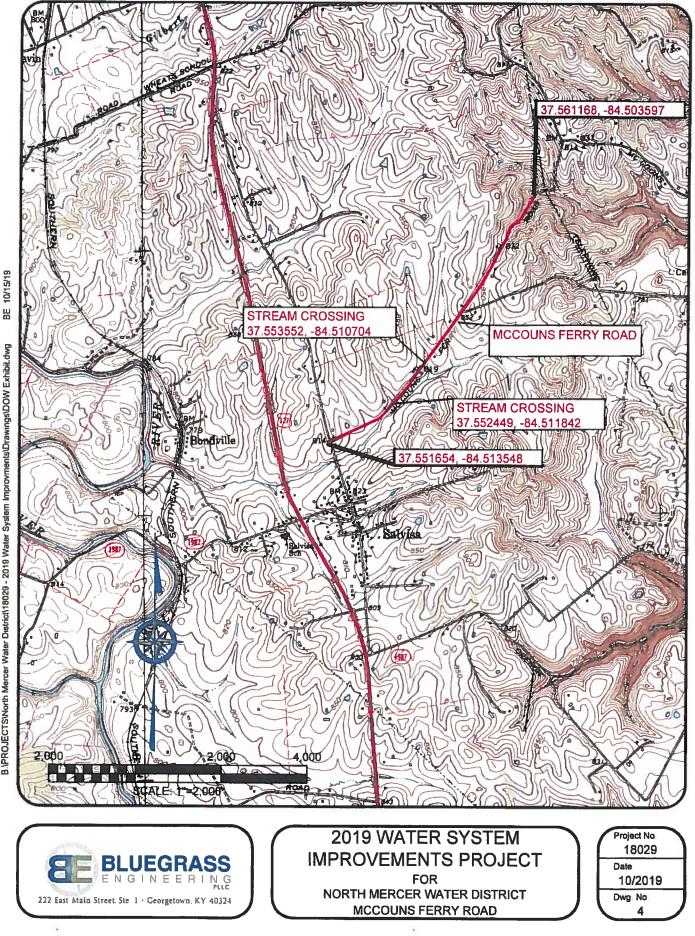




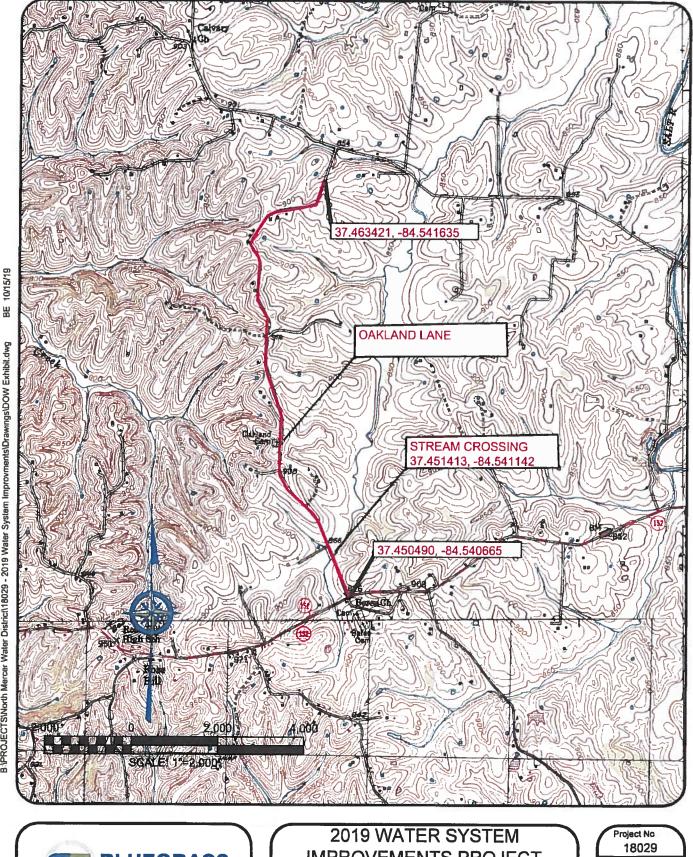
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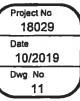


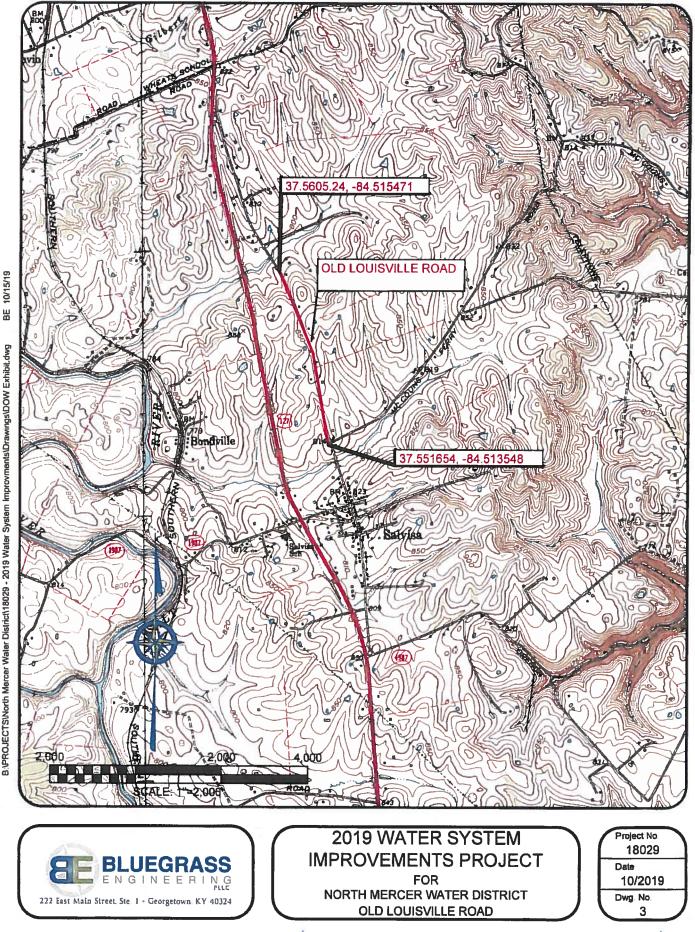
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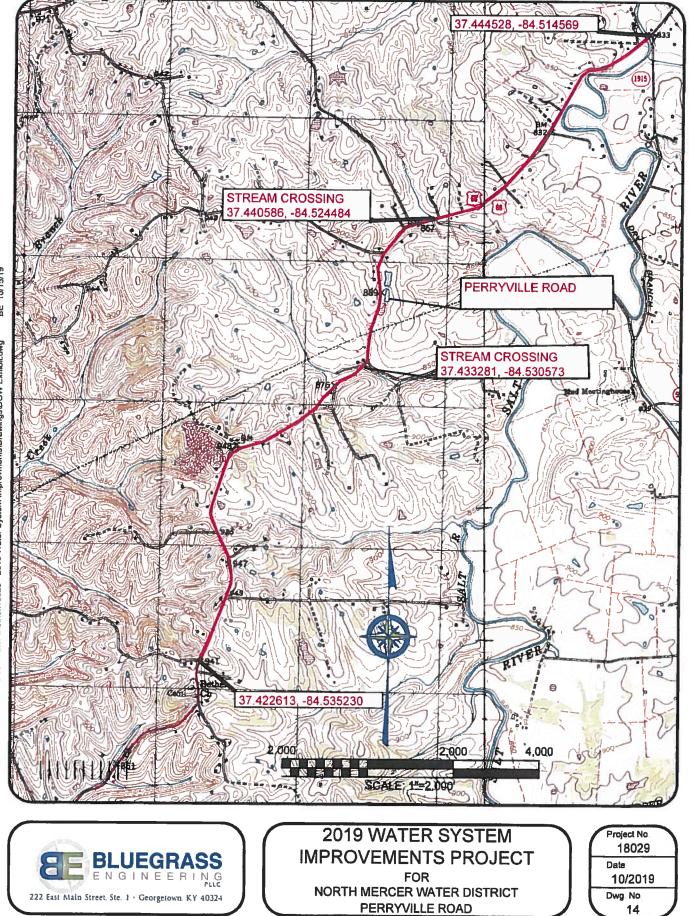




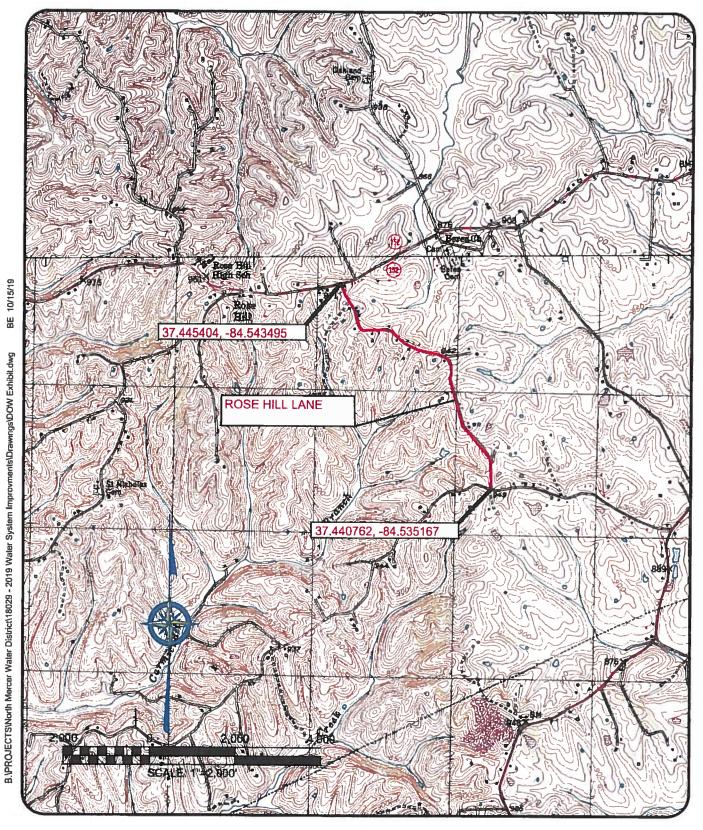




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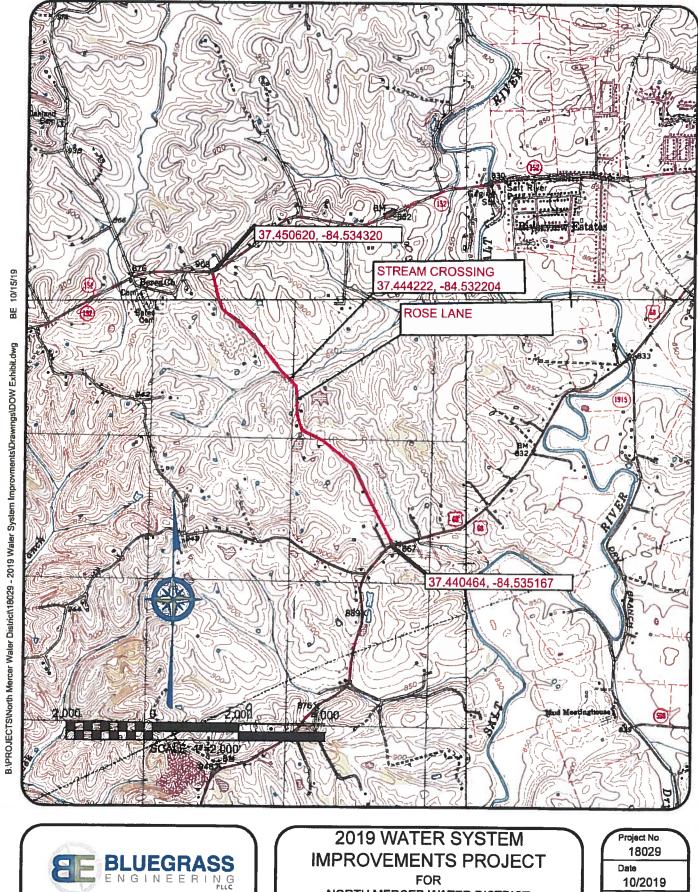
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ENGINEERING 222 East Main Street Ste 1 - Georgetown KY 40324

2019 WATER SYSTEM IMPROVEMENTS PROJECT FOR NORTH MERCER WATER DISTRICT ROSE HILL LANE



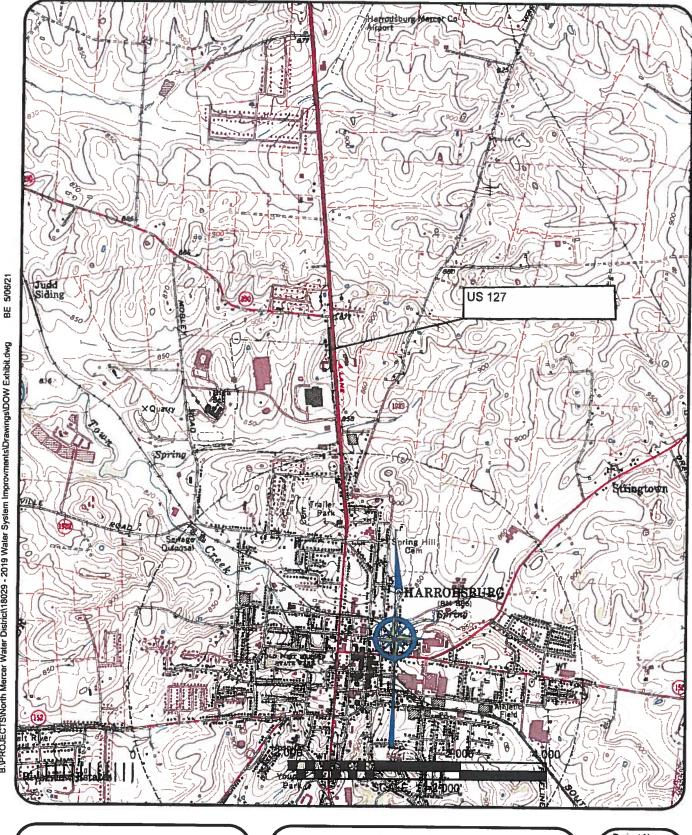


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222 East Main Street, Ste. 1 · Georgetown, KY 40324

IMPROVEMENTS PROJECT FOR NORTH MERCER WATER DISTRICT **ROSE LANE**





BLUEGRASS -ENGINEERING 222 East Main Street Ste. 1 · Georgetown KY 40324

2019 WATER SYSTEM IMPROVEMENTS PROJECT FOR NORTH MERCER WATER DISTRICT



B: PROJECTS/North Mercer Water District/18029 - 2019 Water System Improvments/Drawings/DOW Exhibit.dwg

APPENDIX B BID TABULATIONS AND LETTERS OF RECOMMENDATION



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E	E BLUEGRAS	SS N G						BALVISA, KENTUCI BE PROJECT NO. 1	TEM IMPROVEMENTS	
BASE C	8D: Contract No. 1 - 2019 Water Synlam Improvements	Project		BOCA & Hager (terpria III, Ker	es, inc. Ruchy	Cleary Con Templation	struction, inc. Re, Kontucky	Twin States US ML Hermo	Ny & Excendion n, Kentucky
tem No.	Description	Quantitiy	Unit	Shanit	T	Bid Amount	S/unit	Bid Amount	Shmit	Bid Amount
1	2" PVC Class 200 Water Main,	40	U!	\$ 19.0	10 S	758.00	\$ 34.70	\$ 1,388.00	\$ 41.00	5 1,630.
2	3" PVC Class 200 Water Main	2,780	UF	\$ 20.1	10 S	\$4,368.00	\$ 35.60	\$ 96,120.00	\$ 46.00	\$ 121,600
3	4" PVC Class 200 Water Nain	26,200	U	\$ 21.4	8 0	802,600.00	8 36.30	3 951,060.00	\$ 47.80	\$ 1,231,490
4	6" PVC Class 200 Water Maan	17,300	UF	S 27.4	0 5	467,100.00	S 40.90	\$ 787,678,00	\$ \$6.00	\$ \$51,509.
8	6° Di Class 359, wilderlie Gesketa	480	UF	8 43.0	0 S	17,208.00	\$ 61,70	\$ 24,630.00	\$ 78.00	\$ 28,000.
	2" Gate Valve and Box	1	EA	\$ \$60.0	a s	368.40	\$ 1,071.00	\$ 1,071,00	\$ 1,297.00	8 1,297,
7	3" Gate Valve and Box	4	EA	\$ 1,200.0	0 S	4,600.80	\$ 1,178.00	\$ 4,712,00	5 1,481.68	3 5,824
•	4" Gate Valve and Bex		EA	\$ 1,208.6	• 5	7,200.00	\$ 1,285.90	8 7,710.04	8 1,663.00	\$ 9,316.
1	6" Gain Velve and Box	6	EA	\$ 1.400.0	• 5	7,008.00	\$ 1,499.00	\$ 7,495.00	\$ 1,808.90	5 5,048.
10	Tapping Steeve and Valve	14	EA	\$ 4,590.0	0 S	83,008.06	\$ 4,281,90	8 83,834.00	\$ 4,278.00	\$ \$9,812
11	Cut and Plug Existing Water Main	14	EA	\$ 2,000.0	6 S	42,000.00	\$ 2,141.00	\$ 29,874.00	\$ 2,108.00	\$ 29,612
12	Blaw Off Assembly	8	EA	\$ 3,500.0	a s	21,000.00	\$ 2,676.90	\$ \$8,066.88	8 3,307.60	\$ 19,842
13	Flushing Hydrant Assembly	4	EA	1 6,609.0		26,008.00	\$ 6,778.00	\$ 23,116.00	\$ 8,128.00	\$ 24,612
14	Connect to Existing Water Main	7	EA	\$ 3,790.0	0 S	25,900.00	\$ 3,211.00	8 22,477.98	\$ 2,781.00	\$ 19,267.
18	PVC Casing-Open Cut	60	UP.	\$ 100.0	2 2	8,000.00	8 92.10	\$ 4,686.00	5 176.00	5 8,990.
16	Driveway/County RD Bore w/PVC Casing	608	LF	\$ 138.0	1 8	78,000.00	\$ 218.00	\$ 129,600,00	\$ 212.00	\$ 127,290,
17	9" Steel Casing Bors and Jack - Highway	25	UF	8 175.0	8	4,378.00	\$ 248.00	\$ 6,290.00	\$ 255.00	\$ 6,376.
10	18" Steel Casing Bore and Jack - Highway	78	LF	\$ 258.0	8	17,500.00	\$ 255.00	\$ 17,858.00	5 380.00	\$ 21,000.
18	12" Steel Cosing Bore and Jack - Highway	174	UF	\$ 256.0	1	42,508.00	90.09C B	5 51,000.00	\$ 318.00	\$ \$2,700.
29	18" Steel Cooling Bare and Jack - Railroad, Including 198 LF of 4" Ductile Iron Cless 369	50	UF	8 388.0		24,000.00	\$ 322.00	\$ 25,768.00	8 473.00	\$ 37,848.
21	HOPE DR 9 Directional Drill Creek Crossing	675	UF	5 200.0	1	136,900.00	\$ 294.90	\$ 137,700.00	\$ 275.00	5 186,628.
22	3/4" Air Roisane Valve	1	EA	\$ 1,600,0	5	1,800.00	\$ 2,365.00	5 2,368.00	S 2,744.00	\$ 2,744
23	Replace Existin Service Line w/Class 258 Service Une and Reconnect to Existing Mater	178	EA	B 1,908.0	1 5	332,600.00	\$ \$36.00	5 93,808.08	8 1,893.90	\$ 331,278,
24	1 1/4" PVC Casing Under Roedway for 3/4" Service Line	1,500	LP	\$ 19.0	1 5	25,580.09	\$ 96.40	\$ 144,600.00	\$ 78.00	\$ 118,600.0
25	2" PVC Water Main Under Reachway	308	LP.	\$ 18.0	5	5,790,00	S 100.00	\$ 32,408.06	\$ 80.00	8 24,600.1
28	Replace Existing Service Line and Existing Neter Assembly With New Setter, Box and Lid	11	EA	\$ 1,806.00	1 5	19,800.00	\$ 2,141,00	\$ 23,561,00	\$ 2,848.00	8 27,996.
27	Additonel 1" and 3/4" Service Line	1,000	UF	5 18.90	1	10,000,00	\$ 12.99	\$ 12,900.00	\$ \$6.00	\$ 16,000,1
28	3/4" Bypasa Motars	2	EA	\$ 6,000.00	8	10,000.00	B 2,783.00	\$ 8,568.00	\$ 2,486.00	6 4,812.0
29	Ground Pentstrating Rader Utility Locator	1	EA	\$ 17,608.00	5	17,508.00	\$ 17,500.05	\$ 17,500.00	\$ 17,500.00	\$ 17,808.0
					\$	1		s .		s .
DTAL B	ASE BID AMOUNT - (ITEMS No. 1 - 29) "Netbors in Rod Indicate errors in Contractor's Bid Amou				100	\$2,073.035.00		\$2,846,150.80	-	\$3,494,148,1

Blogats Enggerra, PLLC

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BID TABULATION

NORTH MERCER WATER DISTRICT 2019 - WATER SYSTEM IMPROVEMENTS - CONTRACT 2A SALVISA, KENTUCKY BE PROJECT NO. 18029 BID OPENING: Wednesday, May 19, 2021 – 9:00 am

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BASE BID	: Contract No. 2A - 2019 Water System Improvements	Project			BOCA Ente Hager Hill			Twin	States Utility Mount Herm		kcavation, inc lentucky
item No.	Description	Quantitiy	Unit		\$/unit	r—	Bid Amount		\$/unit		Bid Amount
1	6" PVC Class 200 Water Main,	26,500	LF	\$	25.00	\$	662,500.00	\$	40.00	\$	1,060,000.
2	3" Gate Valve and Box	2	EA	s	1,200.00	\$	2,400.00	\$	1,481.00	\$	2,962.
3	6" Gate Valve and Box	12	EA	\$	1,400.00	\$	16,800.00	\$	1,808.00	5	21,696.
4	Tapping Sleeve and Valve	2	EA	s	4,500.00	\$	9,000.00	\$	4,287.00	\$	8,574.
5	Cut and Plug Existing Water Main	4	EA	\$	3,000.00	s	12,000.00	\$	2,112.00	\$	8,448.
6	Blow Off Assembly	2	EA	\$	3,500.00	\$	7,000.00	\$	3,522.00	\$	7,044
7	Flushing Hydrant Assembly	5	EA	\$	6,500.00	\$	32,500.00	\$	6,128.00	\$	30,640
8	Connect to Existing Water Main	5	EA	s	3,700.00	\$	18,500.00	\$	2,734.00	\$	13,670
9	PVC Casing-Open Cut	90	LF	\$	100.00	s	9,000.00	\$	175.00	\$	15,750
10	Driveway/County RD Bore w/PVC Casing	550	LF	\$	130.00	\$	71,500.00	\$	213.00	\$	117,150
11	12" Steel Casing Bore and Jack - Highway	215	LF	\$	250.00	\$	53,750.00	5	287.00	\$	61,705
12	HDPE DR 9 Directional Drill Creek Crossing	365	LF	\$	200.00	\$	73,000.00	\$	279.00	\$	101,835
13	Replace Existing Service Line w/class 250 Service Line and Reconnect to Existing Meter	117	EA	5	1,400.00	\$	163,800.00	\$	1,693.00	\$	198,081
14	1/4" PVC Casing Under Roadway for 3/4" Service Line	1,500	LF	\$	19.00	s	28,500.00	\$	77.00	\$	115,500
15	Replace Existing Service Line and Existing Meter Assembly with new setter, box and lid	5	EA	s	1,800.00	5	9,000.00	\$	2,581.00	\$	12,905
16	Additional 1" Service Line	500	LF	5	10.00	\$	5,000.00	\$	15.00	\$	7,500.
TOTAL BA	SE BID AMOUNT - (ITEMS No. 1 - 16):	<u>4</u>					\$1,174,250.00			_	\$1,783,460.

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The above is a true and complete tabulation of the bids received on Wednesday, May 19, 2021, 9 00 am I certify that this is true and accurate tabulation of the bids

Bluegrass Engineering, PLLC

By: Att Riley Summer Project Manager

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U	BLUEGRASS ENGINEERING	SS SS							NORTH MERCER WATER DISTRICT 2019 - WATER SYSTEM IMPROVEMENTS - CONTRACT 28 5AJUSA, IGAULOCKY BE PROJECT NO. 19029 BID OPENING: Wadneaday, May 19, 2021 - 9:00 am	VTER DISTRICT EM IMPROVEMENTS Y 029 Nesday, May 19, 2021	s - CONTRACT 28 1 - 9:00 am
BASE BI	BASE BID: Contract No. 28 - 2019 Water System Improvements Pro	ts Project		G & W Co More	G & W Construction Co., Inc. Morehead, Kentucky	BOCA Entr Hager Hill	BOCA Enterprises, Inc. Hager Hill, Kentucky	Twin States Utiliti Mount Hem	Twin States Utilities & Excavation, inc. Mount Hermon, Kentucky	Revivity Ser Winchest	Revivity Service Company Winchester, Kentucky
Item No.	Description	Quantitiy	Chit	\$/unit	Bid Amount	\$/unit	Bid Amount	\$/unit	Bid Amount	\$/unit	Bid Amount
-	8" PVC Class 200 Water Mein	19,000	5	\$ 2(20.25 \$ 384,750.00	0 \$ 25.00	\$ 475,000.00	\$ 32.00	\$ 608,000.00	\$ 42.00	\$ 798,000.00
3	4" Gate Valve and Box	-	đ	\$ 1,200.00	0.00 \$ 1,200.00	0 \$ 1,200.00	\$ 1,200.00	\$ 1,400.00	\$ 1,400.00	\$ 3,500.00	3,500.00
e	6" Gate Valve and Box	S	EA	\$ 1,400.00	0.00 \$ 7,909.00	0 \$ 1,400.00	\$ 7,000.00	\$ 1,700.00	\$ 8,500.00	\$ 4,150.00	0 \$ 20,750.00
4	Tapping Steeve and Vaive	4	EA	\$ 4,000.00	0.00 \$ 16,000.00	0 \$ 4,500.00	\$ 18,000.00	\$ 4,000.00	\$ 16,000.00	\$ 7,836.00	31,344.00
ło	Cut and Plug Existing Water Main	8	EA	s 1,200.00	0.00 \$ 9,600.00	0 \$ 3,000.00	\$ 24,000.00	\$ 2,000.00	\$ 16,000.00	\$ 838.67	s,710.96
9	Flushing Hydrant Assembly	2	Ę	\$ 8,200.00	3.00 \$ 12,400.00	0 \$ 6,500.00	\$ 13,000.00	\$ 6,000.00	\$ 12,090.00	\$ 17,737.25	5 35,474.50
7	Connect to Existing Water Main	e	EA	\$ 4,000.00	0.00 \$ 12,000.00	0 \$ 3,700.00	\$ 11,100.00	\$ 2,700.00	\$ 8,100.00	\$ 1,223.10	3,669.30
80	PVC Casing-Open Cut	80	L,	\$	50.00 \$ 4,000.00	0 \$ 100.00	\$ 8,000.00	\$ 175.00	\$ 14,000.00	90.06	5 7,200.00
8	Driveway/County RD Bore wiPVC Casing	190	5	\$ 60	60.00 \$ 11,400.00	0 \$ 130.00	\$ 24,700.00	\$ 216.00	\$ 41,040.00	\$ 140.00	\$ 26,600.00
10	12" Steel Casing Bore and Jack - Highway	80	LF	\$ 150	150.00 \$ 12,000.00	0 \$ 250.00	\$ 20,000.00	\$ 290.00	\$ 23,200.00	\$ 335.00	\$ 26,800.00
÷	HDPE DR 9 Directional Drill Creek Crossing	300	5	\$ 120	120.00 \$ 36,000.00	0 \$ 200.00	\$ 60,000.00	\$ 186.00	\$ 55,800.00	\$ 335.00	\$ 100,500.00
12	34* Air Reissse Valve	-	EA	s 800	800.00 \$ 800.00	0 \$ 1,800.00	\$ 1,800.00	\$ 2,200.00	\$ 2,200.00	\$ 2,429.50	5 2,429.50
13	Replace Existing Service Line wiclass 250 Service Line and Reconnect to Existing Mater	n	EA	\$ 1,500.00	115,500.00	1,400.00	\$ 107,800.00	\$ 1,200.00	\$ 92,400.00	\$ 668.94	s 51,508.38
14	1/4" PVC Casing Under Roadway for 3/4" Service Line	1,000	5	\$	30.00 \$ 30,000.00) \$ 19.00	\$ 19,000.00	\$ 60.00	\$ 60,000.00	\$ 6.50	\$ 6,500.00
15	Replace Existing Service Line and Existing Meter Assembly with new setter, box and lid	10	5	\$ 2,500.00	0.00 \$ 25,000.00	3 1,800.00	\$ 18,000.00	\$ 2,300.00	\$ 23,000.00	\$ 2,707.80	\$ 27,078.00
16	Additional 1" Service Line	1,000	5	\$ 10	10.00 \$ 10,000.00) \$ 10.00	\$ 10,000.00	\$ 15.00	\$ 15,000.00	\$ 1.40	\$ 1,400.00
TOTAL B/	TOTAL BASE BID AMOUNT - {ITEMS No. 1 - 16}:				\$587,650.00		\$818,600.00		\$996,640.00		\$1,149,464.50
	Numbers in Red indicate errors in Contractor's Bid Amount Calc	t Calculation									
	The above is a true and complete tabulation of the bids received on Wednesday, May 19, 2021, 9-00 am I certify that this is true and accurate tabulation of the bids.	received on We ts.	dnesday, M.	ay 19, 2021, 9·00 (E						
	Bluegrass Engineering, PLLC By Stations Rilley Summer										
	- solary weater										

BASE BID: Contract No. 2C - 2019 Water System Improvements Project Bid Anount Summa System Improvements Project Item Mo. Description CluantWity Unit Sum Bid Anount Sum	8	E BLUEGRAS	N G				NORTH MERCER WA 2019 - WATER SYSTI SALVISA, KENTUCK BE PROJECT NO. 18 BID OPENING: Wedn	EM IMPROVEMENTS Y	
Image: Note of the second se	BASE BIO): Contract No. 2C - 2019 Water System Improvement	s Project			BOCA Ente Hager Hill	rprises, Inc. , Kentucky		
International and the second	em No.	Description	Quantitly	Unit		\$/unit	Bld Amount	\$/unit	Bid Amount
C C <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<>	1	2" PVC Class 200 Water Main	200	LF	5	19.00	\$ 3,800.00	\$ 42.00	5 8,400
International and the second	2	4" PVC Class 200 Water Main	8,900	LF	5	23.00	\$ 184,000.00	\$ 47.00	\$ 376,000
1 From the set of the matrix 1,000 LP 0 3,1300,00 5 7,000 5 5 2" Gate Valve and Box 1 EA \$ 960,00 \$ 980,00 \$ 1,280,00	3	6" PVC Class 200 Water Main	9,500	LF	5	25.00	\$ 237,599.00	\$ 55.00	\$ 622,600
Control Contretor Control Control	4	8" PVC Class 200 Water Main	1,000	LF	\$	33.50	\$ 33,500.00	\$ 70.00	\$ 76,000
1 1	5	2" Gate Valve and Box	1	EA	5	960.00	\$ 850.00	\$ 1,260.00	\$ 1,250
Image: Second	6	4" Gate Valve and Box	5	EA	5	1,200.00	\$ 6,000.00	\$ 1,560.00	\$ 7,750
Interference Image: Construction of the second of the	7	6" Gate Valve and Box	з	EA	\$	1,400.00	\$ 4,200.00	\$ 1,800.00	\$ 5,400
Interface Image: Construction of the second of	8	Tapping Sleeve and Valve	6	EA	5	4,500.00	\$ 27,000.00	5 4,300.00	\$ 25,800
11 Fluxthing Hydrant Assembly 2 EA \$ 6,600.00 \$ 11,000.00 \$ 8,220.00 \$ 12 Connect to Existing Water Main 4 EA \$ 3,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 14,400.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 178.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,700.00 \$ 2,12.00 \$ 1,12.00 \$ 1,12.00 \$ 1,12.00 \$ 1,12.00	9	Cut and Plug Existing Water Mein	8	EA	5	3,000.00	\$ 24,000.00	\$ 2,200.00	\$ 17,600
12 Connect to Existing Water Main 4 EA \$ 3,700.00 \$ 14,800.00 \$ 2,700.00 \$ 13 PVC Casing Open Cut 116 LF \$ 100.00 \$ 11,600.00 \$ 2,700.00 \$ 14 Driveway/County RD Bore w/PVC Casing 135 LF \$ 100.00 \$ 11,600.00 \$ 212.00 \$ 18 10° Steel Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 15,000.00 \$ 310.00 \$ 18 12° Steel Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 4,760.00 \$ 310.00 \$ 18 12° Steel Casing Bore and Jack - Highway 35 LF \$ 250.00 \$ 4,760.00 \$ 310.00 \$ 17 2° Blow Off Hydrant 1 EA \$ 2,500.00 \$ 3,100.00 \$ 18 Ice and Reconnecto Existing Meter 74 EA \$ 1,900.00 \$ 1,853.00 \$ 19 1 14° PVC Casing Under Roadway for 34° Service 1.200 LF \$ 18.00 \$ 22,800.00 \$ 79.00 \$ 20 2° PVC Water Main Under Roadway for 34° Service 1.200 LF \$ 19	10	Blow Off Assembly	3	EA	\$	3,500.00	\$ 10,500.00	\$ 3,300.00	\$ 9,900
13 PVC Casing Open Cut 115 LF \$ 100.00 \$ 11,600.00 \$ 178.00 \$ 14 Driveway/County RD Bore w/PVC Casing 115 LF \$ 100.00 \$ 11,600.00 \$ 178.00 \$ 212.00 \$ 14 Driveway/County RD Bore w/PVC Casing 135 LF \$ 130.00 \$ 17,560.00 \$ 212.00 \$ 18 10° Steel Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 15,000.00 \$ 300.00 \$ 18 12° Steel Casing Bore and Jack - Highway 35 LF \$ 250.00 \$ 8.760.00 \$ 310.00 \$ 17 2° Blow Off Hydrant 1 EA \$ 2,500.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$ 1,853.00 \$	11	Flushing Hydrant Assembly	2	EA	\$	€,600.00	\$ 13,000.00	\$ 6,200.00	\$ 12,400
14 Driveway/County RD Bore w/PVC Casing 135 LF \$ 130.00 \$ 17,500.00 \$ 212.00 \$ 18 10° Stael Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 17,500.00 \$ 212.00 \$ 18 10° Stael Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 15,000.00 \$ 300.00 \$ 18 12° Steel Casing Bore and Jack - Highway 35 LF \$ 250.00 \$ 8,750.00 \$ 310.00 \$ 17 2° Blow Off Hydramt 1 EA \$ 2,500.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 3,100.00 \$ 1,853.00 \$ 3,200.00 \$ 3,900.00 \$	12	Connect to Existing Water Main	4	EA	\$	3,700.00	\$ 14,800.00	\$ 2,700.00	\$ 10,800
18 12" Steel Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 15,000.00 \$ 310.00 \$ 18 12" Steel Casing Bore and Jack - Highway 60 LF \$ 250.00 \$ 15,000.00 \$ 300.00 \$ 18 12" Steel Casing Bore and Jack - Highway 35 LF \$ 250.00 \$ 8.750.00 \$ 310.00 \$ 17 2" Blow Off Hydrant 1 EA \$ 2,500.00 \$ 3,100.00 \$ 18 Replace Existing Service Line wickass 250 Service Line and Reconnect to Existing Metar 74 EA \$ 1,900.00 \$ 1,853.00 \$ 19 1'14" PVC Casing Under Roadway for 34" Service 1.200 LF \$ 19.00 \$ 22,800.00 \$ 79.00 \$ 20 2" PVC Watar Main Under Roadway 50 LF \$ 19.00 \$ 960.00 \$ 80.00 \$ 10 2" PVC Watar Main Under Roadway 50 <td>13</td> <td>PVC Casing Open Cut</td> <td>115</td> <td>LF</td> <td>5</td> <td>100.00</td> <td>\$ 11,500.00</td> <td>\$ 178.00</td> <td>\$ 20,470</td>	13	PVC Casing Open Cut	115	LF	5	100.00	\$ 11,500.00	\$ 178.00	\$ 20,470
18 12" Steel Casing Bore and Jack - Highway 35 LF 5 250.00 5 3,760.00 5 310.00 5 17 2" Blow Off Hydrant 1 EA 5 2,500.00 5 3,100.00 5 3,100.00 5 18 Line and Reconacci Existing Service Line wickiess 260 Service 74 EA 5 1,900.00 5 1,800.00 5 1,813.00 5 19 1 1/4" PVC Casing Under Roadway for 3/4" Service 1,200 LF 5 19.00 5 22,800.00 5 79.00 5 20 2" PVC Water Main Under Roadway 50 LF 5 19.00 3 950.00 5 80.00 5 10 2" PVC Water Main Under Roadway 50 LF 5 19.00 3 950.00 5 80.00 5 10 Replace Extsting Service Line and Extsting Meter	14	Driveway/County RD Bore w/PVC Casing	135	LF	\$	130.00	\$ 17,560.00	\$ 212.00	\$ 28,620
17 2" Blow Off Hydramt 1 EA \$ 2,500.00 \$ 2,500.00 \$ 3,10.00 \$ 18 Replace Existing Service Line wricises 250 Service Line and Reconnect to Existing Meter 74 EA \$ 1,300.00 \$ 140,600.00 \$ 1,853.00 \$ 19 1 1/4" PVC Casing Under Roadway for 3/4" Service Line 1,200 LiF \$ 19.00 \$ 22,600.00 \$ 779.00 \$ 20 2" PVC Water Main Under Roadway 50 LiF \$ 19.00 \$ 950.00 \$ 80.00 \$ 10 Replace Existing Service Line and Existing Meter	18	10" Steel Casing Bore and Jack - Highway	60	LF	\$	250.00	\$ 15,000.00	\$ 300.00	\$ 18,000
18 Replace Existing Service Line wickess 250 Service 74 EA \$ 1,900.00 \$ 140,600.00 \$ 1,833.00 \$ 19 1 1/4" PVC Casing Under Roadway for 3/4" Service 1,200 LF \$ 19.00 \$ 22,800.00 \$ 779.00 \$ 20 2" PVC Water Main Under Roadway 50 LF \$ 19.00 \$ 960.00 \$ 80.00 \$ 10 2." PVC Water Main Under Roadway 50 LF \$ 19.00 \$ 960.00 \$ 80.00 \$	18	12" Steel Casing Bore and Jack - Highway	35	LF	5	250.00	\$ 8,750.00	\$ 310.00	\$ 10,850
1° Line and Reconnect to Existing Meter 74 EA 5 1,900,00 \$ 140,600,00 \$ 1,853,00 \$ 19 1 1/4" PVC Casing Under Roadway for 3/4" Service Line 1,200 LF \$ 19,00 \$ 22,860,00 \$ 779,00 \$ 20 2" PVC Water Main Under Roadway 50 LF \$ 19,00 \$ 950,00 \$ 80,00 \$ 80,00 \$ 30,00 \$ 1,851,00 \$ 10,00 \$ 79,00 \$ 79,00 \$ 79,00 \$ 8 80,00 \$ 8 80,00 \$ 8 80,00 \$ 8 80,00 \$ 8 80,00 \$ 8 80,00 \$ \$ 8 8 8 8 8 8 \$ \$ 8 8 8 8 8 \$ \$ 8 8 \$ \$ 8 8 \$ \$ \$ 8 \$	17	2" Blow Off Hydrant	1	EA	5	2,500.00	\$ 2,500.00	\$ 3,100.00	\$ 3,100
Line 1.00 Line 3 19.00 5 22,800.00 \$ 79.00 \$ 20 2" PVC Water Main Under Rosdway 59 LF \$ 19.00 \$ 950.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ \$ 80.00 \$ \$ 80.00 \$ \$ 80.00 \$ \$ \$ 80.00 \$ </td <td>18</td> <td></td> <td>74</td> <td>EA</td> <td>5</td> <td>1,900.00</td> <td>\$ 140,600.00</td> <td>\$ 1,893.00</td> <td>\$ 148,082</td>	18		74	EA	5	1,900.00	\$ 140,600.00	\$ 1,893.00	\$ 148,082
Replace Existing Service Line and Existing Metar	19		1,200	LF	5	19.00	\$ 22,800.00	\$ 79.00	\$ 54,800
21 Replace Existing Service Line and Existing Metar Assembly with New Settor, Box and Lid	20	2" PVC Water Main Under Roedway	50	LF	\$	19.00	s 95 0.00	\$ 80.00	\$ 4,000
	21	Replace Existing Service Line and Existing Meter Assembly with New Setter, Box and Lid	4	LF	s	1,800.90	\$ 7,200.00	\$ 2,545.00	\$ 10,180
22 Additional 1" Service Line 600 L.F \$ 10.00 \$ 6,000.00 \$ 15.00 \$	22	Additional 1" Service Line	600	LF	5	10.00	\$ 6,000.00	\$ 15.00	\$ 5,000
TOTAL BASE BID AMOUNT - (ITEMS No. 1 - 13): \$792,100.00 \$1	TOTAL BA	ASE BID AMOUNT - (ITEMS No. 1 - 13);			T		\$792,100.00		\$1,406,902

BID TABULATION

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ing. PLLC

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By: Rile Pro

502.370.6551 • 222 East Main Street, Suite 1 • Georgetown, KY 40324	C: Greg Pridemore, RD File	Ritey Sumner Project Manager	Sincerely,	If you have any questions, please contact me at your convenience.	BOCA currently has a bond aggregate of ten million and has been in business for several years specializing in this type of work, therefore Bluegrass Engineering does not have any reason not to recommend BOCA construction for your project.	There were also two (2) bidders on Contract 2C: BOCA Construction and Twin States Utility & Excavation. The low bidder was BOCA Construction with a bid of \$792,100.	There were two (2) bidders on Contract 2A: BOCA Construction, and Twin States Utility & Excavation. The low bidder was BOCA Construction with a bid of \$1,174,250.	Bids for the above referenced project were opened on Wednesday, May 19, 2021 at 9 am EST at the North Mercer Water District office. There were three (3) bidders on Contract 1: BOCA Construction, Cleary Construction and Twin States Utility & Excavation. The low bidder was BOCA Construction, Hager Hill, Kentucky with a bid of \$2,073,035.	Dear Mr. Sheperson;	Re: 2019 Water System Improvements – Contract 1, 2A, 2C Recommendation of Award	Mr. Gerald Sheperson North Mercer Water District P.O. Box 79 Salvisa, Kentucky 40372	May 21, 2021	ENGINEERING
222 East Main Street, Suite 1 · Georgetown,	e, RD			ons, please contact me at your convenience.	bond aggregate of ten million and has been in business for several years e of work, therefore Bluegrass Engineering does not have any reason not construction for your project.	(2) bidders on Contract 2C: BOCA Construction and Twin States Utility & idder was BOCA Construction with a bid of \$792,100.	bidders on Contract 2A: BOCA Construction, and Twin States Utility & idder was BOCA Construction with a bid of \$1,174,250.	erenced project were opened on Wednesday, May 19, 2021 at 9 am EST Nater District office. There were three (3) bidders on Contract 1: BOCA Construction and Twin States Utility & Excavation. The low bidder was tager Hill, Kentucky with a bid of \$2,073,035.		m Improvements – Contract 1, 2A, 2C of Award	istrict 172		ENGINEERING

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May 21, 2021

Mr. Gerald Sheperson North Mercer Water District P.O. Box 79 Salvisa, Kentucky 40372

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Re: 2019 Water System Improvements – Contract 2B Recommendation of Award

Dear Mr. Sheperson;

Bids for the above referenced project were opened on Wednesday, May 19, 2021 at 9 am EST at the North Mercer Water District office. There were four (4) bidders: G and W Construction, BOCA Construction, Twin States Utilities & Excavation, and Revivify Service Co. The low bidder was G & W Construction, Morehead, Kentucky with a bid of \$687,650.

Since G & W Construction has completed several successful projects over the years with myself and Bluegrass Engineering, I would recommend the North Mercer Water District, accept the low bid of G and W Construction.

If you have any questions, please contact me at your convenience.

Sincerely, Riley Sumner 0 Ņ

Project Manager

o Greg Pridemore, RD File

502.370.6551 • 222 East Main Street, Suite 1 . Georgetown, KY 40324

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www.bluegrassengineering.net