

FINAL ENGINEERING REPORT

2019 WATER LINE REPLACEMENTS & IMPROVEMENTS PROJECT

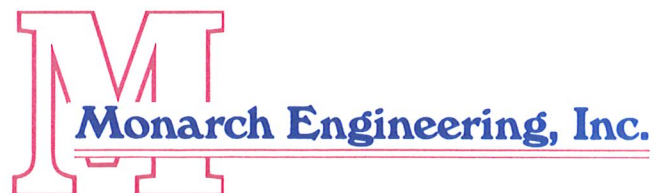
For The

BRONSTON WATER ASSOCIATION

Project Financed By:

U.S.D.A. RURAL DEVELOPMENT

DECEMBER 2020





December 18, 2020

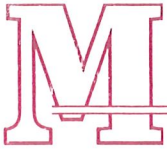
Mr. Eric Keith, President
Bronston Water Association
2013 Highway 90
PO Box 243
Bronston, Kentucky 42518

Re: Bronston Water Association
2019 Water Line Replacements & Improvements Project
Processing Checklist Items
RUS Loan: \$555,000.00, RUS Grant: \$238,000.00

Dear Mr. Keith:

On December 15, 2020 bids were received by the Bronston Water Association for 2019 Water Line Replacements & Improvements Project. Seven bids were submitted on the project and the lowest bid was by Akins Excavating located in Corbin, Kentucky for an amount of \$473,621.00. This total construction cost would be within the total project budget as shown on the attached Final Project Budget. A copy of the summarized bid tabulation of all bids received is attached along with a final project budget.

In reviewing the Letter of Conditions dated August 7, 2019, the amount of funds available for development is \$793,000.00. As indicated in the attached Final Project Budget, the total "as-bid" project costs are within the amount of allocated financing. Proceeding with a contract award to the low bidder would allow contingency funds in the amount of \$177,379.00. Therefore, based on the competitive nature of the bids received, and the necessity of the proposed replacements and improvements, we recommend that the Bronston Water Association consider awarding a contract to Akins Excavating for an amount of \$473,621.00 for the 2019 Water Line Replacements & Improvements Project. This recommendation is contingent upon approval by USDA Rural Development and the Kentucky Public Service Commission.



December 18, 2020
Page Two

Given the substantial amount of contingency funds which are likely to remain following completion of the project, the inclusion of an additional project water line replacements and improvements phase should be considered. Gauging from preliminary discussions, it is recommended that all or a portion of these funds be used towards the water line extension (loop) along Gibson Lane near the Bobbi Drive and Judy Drive water line replacements portion. This recommendation is based on the need for the water system to feed in a loop in the Gibson Lane, Bobbi Drive, and Judy Drive area. In any case, further discussion regarding the use of the remaining funds should be undertaken between Bronston Water Association's management and Board of Directors. Please note that any additional improvements will require approval from both USDA Rural Development and the Kentucky Public Service Commission.

Sincerely,

A handwritten signature in blue ink, reading "Deron S. Byrne", is written over the typed name.

Deron S. Byrne, P.E.
Project Engineer

/dsb

cc: Clay McKnight
USDA Rural Development, London

Julie Anderson
USDA Rural Development, Lexington

**FINAL BUDGET
BRONSTON WATER ASSOCIATION
PULASKI & WAYNE COUNTIES, KENTUCKY
2019 WATER LINE REPLACEMENTS & IMPROVEMENTS
DECEMBER 2020**

PROPOSED PROJECT COSTS

DEVELOPMENT	\$473,621.00
CONTINGENCY	177,379.00
ENGINEERING DESIGN	58,000.00
CONSTRUCTION INSPECTION	41,000.00
PRELIMINARY ENGINEERING REPORT	10,000.00
ENVIRONMENTAL ASSESSMENT	10,000.00
LEGAL & ADMINISTRATION	13,000.00
INTEREST	<u>10,000.00</u>
TOTAL PROJECT COSTS	\$793,000.00

PROJECT FUNDING

USDA RURAL DEVELOPMENT LOAN	\$555,000.00
USDA RURAL DEVELOPMENT GRANT	<u>238,000.00</u>
TOTAL PROJECT FUNDING	\$793,000.00

BID TABULATIONS
BRONSTON WATER ASSOCIATION
2019 WATER LINE REPLACEMENTS & IMPROVEMENTS
PULASKI & WAYNE COUNTIES, KENTUCKY
BID DATE: DECEMBER 15, 2020 @ 11:00 A.M. LOCAL TIME

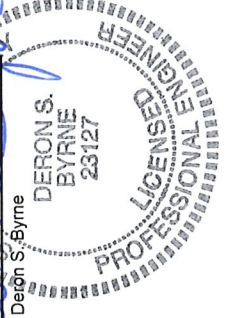
MONARCH ENGINEERING, INC.
 556 Carlton Drive
 Lawrenceburg, KY 40342
 Phone (502) 839-1310
 Fax (502) 839-1373

ITEM NO.	DESCRIPTION	QUANTITY	Akins Excavating, Inc. 182 Busy Lane Corbin, KY 40701		Flo-Line Contracting 189 Sunstar Blvd Monticello, KY 42633		United Pipeline 150 Hill Rd Tompkinsville, KY 42167	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
BASE BID CONTRACT								
1	8-Inch Ductile Iron Cl.350 Water Line	250 LF	\$52.00	\$13,000.00	\$50.29	\$12,572.50	\$60.00	\$15,000.00
2	6-Inch PVC SDR 17 Water Line	5,500 LF	16.00	88,000.00	15.05	82,775.00	14.00	77,000.00
3	3-Inch PVC SDR 17 Water Line	14,310 LF	9.00	128,790.00	9.00	128,790.00	13.00	186,030.00
4	2-Inch PVC SDR 17 Water Line	100 LF	8.50	850.00	12.35	1,235.00	11.00	1,100.00
5	Bore & Case for 6-Inch Water Line	80 LF	158.00	12,640.00	100.00	8,000.00	200.00	16,000.00
6	Bore & Case for 3-Inch Water Line	300 LF	125.00	37,500.00	75.00	22,500.00	185.00	55,500.00
7	Creek Crossing via Directional Bore for 4-Inch HDPS DR 11 Water Line	40 LF	100.00	4,000.00	60.00	2,400.00	183.00	7,320.00
8	Creek Crossing for 3-Inch Water Line	30 LF	24.00	720.00	30.00	900.00	70.00	2,100.00
9	Driveway Free Bore for 6-Inch W.L.	30 LF	57.00	1,710.00	100.00	3,000.00	85.00	2,550.00
10	Driveway Free Bore for 3-Inch W.L.	120 LF	39.00	4,680.00	75.00	9,000.00	75.00	9,000.00
11	8-Inch Gate Valve	4 EA	1,735.00	6,940.00	1,900.00	7,600.00	1,900.00	7,600.00
12	6-Inch Gate Valve	2 EA	1,220.00	2,440.00	1,500.00	3,000.00	1,800.00	3,600.00
13	3-Inch Gate Valve	11 EA	1,174.00	12,914.00	1,200.00	13,200.00	1,200.00	13,200.00
14	2-Inch Gate Valve	1 EA	825.00	825.00	900.00	900.00	900.00	900.00
15	2-Way Flush Hydrant Assembly	6 EA	1,730.00	10,380.00	3,000.00	18,000.00	3,000.00	18,000.00
16	Connection	18 EA	2,000.00	36,000.00	2,700.00	48,600.00	1,600.00	28,800.00
17	3-Inch Check Meter Assembly	1 EA	\$1,425.00	\$1,425.00	\$2,800.00	\$2,800.00	\$1,500.00	\$1,500.00
18	2-Inch Meter Setting	1 EA	4,415.00	4,415.00	5,000.00	5,000.00	3,700.00	3,700.00
19	Standard Meter Setting	4 EA	758.00	3,032.00	1,500.00	6,000.00	800.00	3,200.00
20	Meter Reconnection	70 EA	200.00	14,000.00	300.00	21,000.00	300.00	21,000.00
21	Service Line Reconnection	75 EA	200.00	15,000.00	300.00	22,500.00	200.00	15,000.00
22	2-Inch PE Service Line	50 LF	10.00	500.00	9.47	473.50	8.00	400.00
23	3/4-Inch PE Service Line	2,760 LF	8.50	23,460.00	9.15	25,254.00	7.00	19,320.00
24	Tank Valve Vault & Accessories	1 LS	40,000.00	40,000.00	47,500.00	47,500.00	49,900.00	49,900.00
25	Expiration	40 HR	260.00	10,400.00	125.00	5,000.00	110.00	4,400.00
TOTAL BASE BID				\$473,621.00		\$498,000.00		\$562,120.00

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00 A.M. LOCAL TIME, TUESDAY, DECEMBER 15, 2020 AT THE BRONSTON WATER ASSOCIATION.

BY:

[Signature]
 Date 12/16/20



BID TABULATIONS
BRONSTON WATER ASSOCIATION
2019 WATER LINE REPLACEMENTS & IMPROVEMENTS
PULASKI & WAYNE COUNTIES, KENTUCKY
BID DATE: DECEMBER 15, 2020 @ 11:00 A.M. LOCAL TIME

MONARCH ENGINEERING, INC.
 556 Carlton Drive
 Lawrenceburg, KY 40342
 Phone (502) 839-1310
 Fax (502) 839-1373

ITEM NO.	DESCRIPTION	QUANTITY	Cumberland Pipeline, LLC 2909 Cane Valley Rd Columbia, KY 42728		K. Carrander Const. Co, Inc 200 Ringgold Rd Somerset, KY 42503		Weddle Enterprises, Inc. 25 Shades Lane Somerset, KY 42501	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
BASE BID CONTRACT								
1	8-Inch Ductile Iron CL360 Water Line	250 LF	\$67.50	\$16,875.00	\$60.00	\$15,000.00	\$69.20	\$17,300.00
2	6-Inch PVC SDR 17 Water Line	5,500 LF	15.50	85,250.00	18.00	99,000.00	12.15	66,825.00
3	3-Inch PVC SDR 17 Water Line	14,310 LF	16.00	228,960.00	15.25	218,227.50	22.10	316,251.00
4	2-Inch PVC SDR 17 Water Line	100 LF	12.00	1,200.00	15.00	1,500.00	11.00	1,100.00
5	Bore & Case for 6-Inch Water Line	80 LF	150.00	12,000.00	210.00	16,800.00	140.00	11,200.00
6	Bore & Case for 3-Inch Water Line	300 LF	125.00	37,500.00	140.00	42,000.00	140.00	42,000.00
7	Creek Crossing via Directional Bore for 4-Inch HDPS DR 11 Water Line	40 LF	150.00	6,000.00	130.00	5,200.00	287.50	11,500.00
8	Creek Crossing for 3-Inch Water Line	30 LF	55.00	1,650.00	27.00	810.00	42.00	1,260.00
9	Driveway Free Bore for 6-Inch W.L.	30 LF	35.00	1,050.00	75.00	2,250.00	30.00	900.00
10	Driveway Free Bore for 3-Inch W.L.	120 LF	35.00	4,200.00	75.00	9,000.00	30.00	3,600.00
11	8-Inch Gate Valve	4 EA	1,671.00	6,684.00	1,400.00	5,600.00	1,650.00	6,600.00
12	6-Inch Gate Valve	2 EA	1,285.00	2,570.00	1,150.00	2,300.00	1,175.00	2,350.00
13	3-Inch Gate Valve	11 EA	1,150.00	12,650.00	950.00	10,450.00	800.00	8,800.00
14	2-Inch Gate Valve	1 EA	892.00	892.00	830.00	830.00	650.00	650.00
15	2-Way Flush Hydrant Assembly	6 EA	3,386.00	20,316.00	3,000.00	18,000.00	2,425.00	14,550.00
16	Connection	18 EA	1,000.00	18,000.00	2,750.00	49,500.00	1,725.00	31,050.00
17	3-Inch Check Meter Assembly	1 EA	2,207.00	2,207.00	3,400.00	3,400.00	2,780.00	2,780.00
18	2-Inch Meter Setting	1 EA	5,610.00	5,610.00	5,000.00	5,000.00	3,300.00	3,300.00
19	Standard Meter Setting	4 EA	1,156.00	4,624.00	1,250.00	5,000.00	550.00	2,200.00
20	Meter Reconnection	70 EA	500.00	35,000.00	380.00	26,600.00	295.00	20,650.00
21	Service Line Reconnection	75 EA	500.00	37,500.00	160.00	12,000.00	100.00	7,500.00
22	2-Inch PE Service Line	50 LF	13.00	650.00	20.00	1,000.00	10.50	525.00
23	3/4-Inch PE Service Line	2,760 LF	9.00	24,840.00	17.00	46,920.00	11.80	32,568.00
24	Tank Valve Vault & Accessories	1 LS	36,772.00	36,772.00	39,750.00	39,750.00	40,000.00	40,000.00
25	Exploration	40 HR	50.00	2,000.00	100.00	4,000.00	200.00	8,000.00
TOTAL BASE BID				\$605,000.00		\$640,137.50		\$653,459.00

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ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
BASE BID CONTRACT				
1	8-Inch Ductile Iron CL350 Water Line	250 LF	\$48.00	\$12,000.00
2	6-Inch PVC SDR 17 Water Line	5,500 LF	23.00	126,500.00
3	3-Inch PVC SDR 17 Water Line	14,310 LF	18.00	257,580.00
4	2-Inch PVC SDR 17 Water Line	100 LF	14.00	1,400.00
5	Bore & Case for 6-inch Water Line	80 LF	146.00	11,680.00
6	Bore & Case for 3-inch Water Line	300 LF	132.00	39,600.00
7	Creek Crossing via Directional Bore for 4-inch HDPS DR 11 Water Line	40 LF	135.00	5,400.00
8	Creek Crossing for 3-Inch Water Line	30 LF	128.00	3,840.00
9	Driveway Free Bore for 6-Inch W.L.	30 LF	100.00	3,000.00
10	Driveway Free Bore for 3-Inch W.L.	120 LF	87.00	10,440.00
11	8-Inch Gate Valve	4 EA	1,861.00	7,444.00
12	6-Inch Gate Valve	2 EA	1,788.00	3,576.00
13	3-Inch Gate Valve	11 EA	1,205.00	13,255.00
14	2-Inch Gate Valve	1 EA	872.00	872.00
15	2-Way Flush Hydrant Assembly	6 EA	3,177.00	19,062.00
16	Connection	18 EA	2,029.00	36,522.00
17	3-Inch Check Meter Assembly	1 EA	\$1,428.00	\$1,428.00
18	2-Inch Meter Setting	1 EA	3,705.00	3,705.00
19	Standard Meter Setting	4 EA	889.00	3,556.00
20	Meter Reconnection	70 EA	350.00	24,500.00
21	Service Line Reconnection	75 EA	275.00	20,625.00
22	2-Inch PE Service Line	50 LF	14.00	700.00
23	3/4-Inch PE Service Line	2,760 LF	9.00	24,840.00
24	Tank Valve Vault & Accessories	1 LS	35,000.00	35,000.00
25	Exploration	40 HR	200.00	8,000.00
TOTAL BASE BID				\$674,525.00