



October 14, 2020

Hon. Kevin Neal – Judge Executive  
Marshall County Fiscal Court  
1101 Main Street  
Benton, KY 42025

**Re: Engineering Services Proposal – Contract Modification 1  
Draffenville West of Parkway Sewer Expansion – Phase 1  
Marshall County Sanitation District  
Marshall County, KY**

Judge Neal:

Thank you for the opportunity to prepare this engineering services proposal for your review. The following scope of services proposal has been prepared based upon the 2 public meetings held for this project, and our understanding of the scope approved by the Fiscal Court at your meeting held on October 6, 2020. For reference, a copy of the planning map prepared for the additional scope of work, has been included with this letter.

At this time, RIVERCREST understands that the Fiscal Court has approved the additions of those sections noted as "Alternate A" and "Alternate B" (yellow and blue sections) to the project scope of work. The intent of these additions will be to expand on the original project scope to extend gravity, sanitary sewer service across U.S. Highway 68 (to the north) at 2 locations, 1) west of the existing Mike Miller Park entrance, and 2) at Easy Street. Although we understand that the Fiscal Court does not wish to build the full extent of those sewers identified for expansion at this time, RIVERCREST's scope of services will include the evaluation and surveys of the highlighted project areas. In addition, we will develop designs for gravity sewers, with the intent to be able to provide sanitary sewer service to those properties highlighted on the attached map.

The services provided as part of this contract modification will be provided consistent with the previously approved scope of design and construction services for the original project. In addition, this contract modification will include permitting services through the KY Transportation Cabinet for the encroachments onto state owned rights of way.

Following further review of the design work and construction scope, RIVERCREST was able to reduce the previously submitted, estimated fees for our engineering design and construction phase services by \$2,000 and is summarized below:

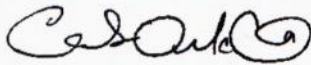
• Engineering Design & Permitting Services	\$17,500.00
• Construction Engineering/Observation Services	\$8,500.00
• <u>Direct Expenses – Survey/Mileage</u>	<u>\$8,000.00</u>
<b>Total Proposed Fee</b>	<b>\$34,000.00</b>

Rivercrest Engineering Incorporated, 7020 U.S. Highway 68 W, Paducah, Kentucky 42003

The engineering services for the project as described herein can begin immediately following execution of this proposal letter and can be completed on the general timeframe as noted in our original proposal.

Once you have had an opportunity to review our proposal, please contact me to discuss any concerns or questions you may have. If the Fiscal Court is agreeable to starting this work in accordance with this proposal, please sign below, and return to us for initiating work. As we are currently working under a professional engineering services agreement with the Marshall County Fiscal Court, we understand that we will continue to operate under this agreement for the duration of this project.

Sincerely,  
**RIVERCREST ENGINEERING, INC.**



Charles D. McCann II, P.E.  
Project Manager

**APPROVED BY:**



Hon. Kevin Neal – Judge Executive  
Marshall County Fiscal Court

**MARSHALL COUNTY SANITATION DISTRICT - WEST SEWER EXPANSION**  
**Phase 1 Chosen Alignment w/ Expansions Along & Across US 68**  
**ESTIMATE OF PROBABLE COST - County Portion**  
**UPDATED - SEPTEMBER 2020**

ITEM	DESCRIPTION	UNITS	BASE QTY.	EXP. ALT A	EXP. ALT B	EST. UNIT PRICE	BASE TOTAL	ALT A - ADDER	ALT B - ADDER	TOTAL PROJECT COST
1.	8" SDR-35 PVC Gravity Sewer (10-15' Deep)	l.f.	1,000	90	620	\$52.00	\$ 52,000.00	\$ 4,680.00	\$ 32,240.00	\$ 88,920.00
2.	8" SDR-35 PVC Gravity Sewer (0-10' Deep)	l.f.	1,600	160	40	\$43.00	\$ 68,800.00	\$ 6,880.00	\$ 1,720.00	\$ 77,400.00
3.	8" RJ/PVC Gravity Sewer (w/in Encasement)	l.f.	60	230	70	\$40.00	\$ 2,400.00	\$ 9,200.00	\$ 2,800.00	\$ 14,400.00
4.	6" HDPE Force Main (Open Cut)	l.f.	170			\$30.00	\$ 5,100.00	\$ -	\$ -	\$ 5,100.00
5.	6" HDPE Force Main (w/in Encasement)	l.f.	330			\$25.00	\$ 8,250.00	\$ -	\$ -	\$ 8,250.00
6.	24" Steel Encasement (FM Bore & Jack - Purchase Parkway)	l.f.	330			\$450.00	\$ 148,500.00	\$ -	\$ -	\$ 148,500.00
7.	16" Steel Encasement (Gravity Bore & Jack - US 68)	l.f.	0	230	70	\$320.00	\$ -	\$ 73,600.00	\$ 22,400.00	\$ 96,000.00
8.	16" Steel Encasement (Stream Crossing)	l.f.	60			\$140.00	\$ 8,400.00	\$ -	\$ -	\$ 8,400.00
9.	4' Diameter Precast Concrete Manhole (10-15' Deep)	each	7	1	2	\$4,100.00	\$ 28,700.00	\$ 4,100.00	\$ 8,200.00	\$ 41,000.00
10.	4' Diameter Precast Concrete Manhole (4-10' Deep)	each	2	1	1	\$3,600.00	\$ 7,200.00	\$ 3,600.00	\$ 3,600.00	\$ 14,400.00
11.	Galloway Lane Lift Station (Incl. Site & Electrical)	l. sum	1			\$155,000.00	\$ 155,000.00	\$ -	\$ -	\$ 155,000.00
12.	2" Air Release Valve & Vault	each	1			\$4,200.00	\$ 4,200.00	\$ -	\$ -	\$ 4,200.00
13.	6" Cleanout Assembly	each	15	1	3	\$800.00	\$ 12,000.00	\$ 800.00	\$ 2,400.00	\$ 15,200.00
14.	Core Drill Existing Wet Well/Manhole	l. sum	1			\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ 1,500.00
15.	Class III Channel Lining (w/ Geotextile Fabric)	s.y.	240			\$40.00	\$ 9,600.00	\$ -	\$ -	\$ 9,600.00
16.	Landscaping & Seeding	s.y.	5,000	900	1,600	\$1.50	\$ 7,500.00	\$ 1,350.00	\$ 2,400.00	\$ 11,250.00
17.	Select Fill	tons	500	435	285	\$23.00	\$ 11,500.00	\$ 10,005.00	\$ 6,555.00	\$ 28,060.00
18.	Asphalt Paving	tons	0	6	30	\$250.00	\$ -	\$ 1,500.00	\$ 7,500.00	\$ 9,000.00
19.	Mobilization/Demobilization	l. sum	1			\$5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00
20.	Bonds & Insurance	l. sum	1				\$ 16,000.00	\$ 4,000.00	\$ 3,000.00	\$ 23,000.00
21.	Erosion & Sediment Control (Includes Clearing)	l. sum	1			\$10,000.00	\$ 10,000.00	\$ 2,000.00	\$ -	\$ 12,000.00
	Construction Subtotal Cost						\$ 561,650	\$ 121,715	\$ 92,815	\$ 776,180
	Construction Contingencies					( 15.00% )	\$ 84,248	\$ 18,257	\$ 13,922	\$ 116,427
	<b>TOTAL ESTIMATED CONSTRUCTION COST</b>						\$ 645,898	\$ 139,972	\$ 106,737	\$ 892,607
	Legal Expenses		5	1	1	\$300.00	\$ 1,500	\$ 300	\$ 300	\$ 2,100
	Easements		5	1	1	\$1,000.00	\$ 5,000	\$ 1,000	\$ 1,000	\$ 7,000
	Rivercrest Eng. Design, Permitting & Easements						\$ 62,800	\$ 13,000	\$ 14,500	\$ 90,300
	Rivercrest Eng. Const. PM & Inspection						\$ 44,500	\$ 4,500	\$ 4,000	\$ 53,000
	<b>TOTAL ESTIMATED COST</b>						\$ 759,698	\$ 158,772	\$ 126,537	\$ 1,045,007