

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

ITEM	DESCRIPTION	UNITS	BASE QTY.	EXP. ALT A	EXP. ALT B	EXP. ALT C	EST. UNIT PRICE	BASE TOTAL	ALT A - ADDER	ALT B - ADDER	ALT C - ADDER	TOTAL PROJECT COST
1.	8" SDR-35 PVC Gravity Sewer (10-15' Deep)	L.F.	1,000	90	350		\$52.00	\$ 52,000.00	\$ 4,680.00	\$ 18,200.00	\$ -	\$ 74,880.00
2.	8" SDR-35 PVC Gravity Sewer (0-10' Deep)	L.F.	1,600	660	1,100	350	\$43.00	\$ 68,800.00	\$ 28,380.00	\$ 47,300.00	\$ 15,050.00	\$ 159,530.00
3.	8" SDR-35 PVC Gravity Sewer (Inc. Depth & Hauling) - Alt C	L.F.				930	\$80.00	\$ -	\$ -	\$ -	\$ 74,400.00	\$ 74,400.00
4.	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
5.	6" HDPE Force Main (Open Cut)	L.F.	170				\$30.00	\$ 5,100.00	\$ -	\$ -	\$ -	\$ 5,100.00
6.	6" HDPE Force Main (w/in Encasement)	L.F.	330				\$25.00	\$ 8,250.00	\$ -	\$ -	\$ -	\$ 8,250.00
7.	24" Steel Encasement (FM Bore & Jack - Purchase Parkway)	L.F.	330				\$450.00	\$ 148,500.00	\$ -	\$ -	\$ -	\$ 148,500.00
8.	16" Steel Encasement (Gravity Bore & Jack - US 68)	L.F.	0	230	70		\$320.00	\$ -	\$ 73,600.00	\$ 22,400.00	\$ -	\$ 96,000.00
9.	16" Steel Encasement (Stream Crossing)	L.F.	60				\$140.00	\$ 8,400.00	\$ -	\$ -	\$ -	\$ 8,400.00
10.	4' Diameter Precast Concrete Manhole (10-15' Deep)	each	7	1	2	1	\$4,100.00	\$ 28,700.00	\$ 4,100.00	\$ 8,200.00	\$ 4,100.00	\$ 45,100.00
11.	4' Diameter Precast Concrete Manhole (4-10' Deep)	each	2	4	3	3	\$3,600.00	\$ 7,200.00	\$ 14,400.00	\$ 10,800.00	\$ 10,800.00	\$ 43,200.00
12.	Galloway Lane Lift Station (Incl. Site & Electrical)	l. sum	1				\$155,000.00	\$ 155,000.00	\$ -	\$ -	\$ -	\$ 155,000.00
13.	2" Air Release Valve & Vault	each	1				\$4,200.00	\$ 4,200.00	\$ -	\$ -	\$ -	\$ 4,200.00
14.	6" Cleanout Assembly	each	15	7	6	7	\$800.00	\$ 12,000.00	\$ 5,600.00	\$ 4,800.00	\$ 5,600.00	\$ 28,000.00
15.	Core Drill Existing Wet Well/Manhole	l. sum	1				\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ -	\$ 1,500.00
16.	Class III Channel Lining (w/ Geotextile Fabric)	s.y.	240				\$40.00	\$ 9,600.00	\$ -	\$ -	\$ -	\$ 9,600.00
17.	Landscaping & Seeding	s.y.	5,000	2,000	2,400	600	\$1.50	\$ 7,500.00	\$ 3,000.00	\$ 3,600.00	\$ 900.00	\$ 15,000.00
18.	Select Fill	tons	500	500	500	3,500	\$23.00	\$ 11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 80,500.00	\$ 115,000.00
19.	Asphalt Paving	tons	0	10	50	70	\$250.00	\$ -	\$ 2,500.00	\$ 12,500.00	\$ 17,500.00	\$ 32,500.00
20.	Mobilization/Demobilization	l. sum	1				\$5,000.00	\$ 5,000.00	\$ -	\$ -	\$ -	\$ 5,000.00
21.	Bonds & Insurance	l. sum	1				\$16,000.00	\$ 16,000.00	\$ 5,000.00	\$ 4,000.00	\$ 6,000.00	\$ 31,000.00
22.	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	\$ 163,960	\$ 146,100	\$ 214,850	\$ 1,086,560
	Construction Contingencies						(15.00%)	\$ 84,248	\$ 24,594	\$ 21,915	\$ 32,228	\$ 162,984
	TOTAL ESTIMATED CONSTRUCTION COST							\$ 645,898	\$ 188,554	\$ 168,015	\$ 247,078	\$ 1,249,544
	Legal Expenses		5	4	5	6	\$300.00	\$ 1,500	\$ 1,200	\$ 1,500	\$ 1,800	\$ 6,000
	Easements		5	4	5	6	\$1,000.00	\$ 5,000	\$ 4,000	\$ 5,000	\$ 6,000	\$ 20,000
	Rivercrest Eng. Design, Permitting & Easements						\$62,800	\$ 62,800	\$ 13,000	\$ 13,000	\$ 18,000	\$ 106,800
	Rivercrest Eng. Const. PM & Inspection						\$44,500	\$ 44,500	\$ 5,500	\$ 5,000	\$ 8,000	\$ 63,000
	TOTAL ESTIMATED COST							\$ 759,698	\$ 212,254	\$ 192,515	\$ 280,878	\$ 1,445,344

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	\$ 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
	TOTAL ESTIMATED CONSTRUCTION COST						\$ 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
	TOTAL ESTIMATED COST						\$ 759,698	\$ 158,772	\$ 126,537	\$ 1,045,007