



27 Chatham Center South Dr.

Suite A

Savannah, GA 31405

Phone: (912) 232-6533

Environmental ● Marine ● Civil ● Survey

March 24, 2025

Mr. Tre' Wilkins, P.E.

Effingham County Board of Commissioners

804 S. laurel Street

Springfield, GA 31329

RE: Hodgeville Sanitary Sewer Force Main 23-ITB – 060
EMC Project No: 21-0015

Dear Mr. Wilkins:

Attached is the bid abstract for the referenced project. The apparent low bidder is Legacy Water Group, LLC with a base bid of \$8,145,560. EMC does not recommend implementing Alternative Bid Section 2: 18" Ductile Iron Force Main instead of using 18" PVC force main in the base bid due to the increase in cost (\$300 / ft vs. \$154 / ft) for the bid submitted by Legacy water Group, LLC. If the county wants to add casing to the force main that is going to be installed by horizontal directional drill on sheets 11, 12, and 13 of the plans an additional \$702,000 in Alternate Bid Section 3 will need to be added to the Legacy Water Group, LLC base bid of \$8,145,560.

Alternate Bid Section 1 was part of the bid to determine if it would be more economical to install the forcemain by horizontal directional drill through the indicated wetland areas to avoid the purchasing of wetland mitigation credits. The base bid assumes that the wetlands will be impacted, and mitigation credits will be needed. The following shows how to calculate the total bid with Alternate Bid Section 1 applied.

Base Bid	\$8,145,560
Wetland Credits	<u>\$ 547,760</u>
Total	\$8,693,320

Deduct 3927 ft of Direct Bury Force Main	(\$604,758)
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Deduct Wetland Credits	(\$547,760)
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Deduct Clearing (Est. 1.35 AC)	(\$20,587.50)
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Deduct Silt (\$44,745)
Fence (est.
15,700 ft)

Deduct Temporary (\$1,960.50)
Grassing (est.
6535 SY)

Deduct Permanent (\$6,535)
Grassing (est. 6535
SY)

Add Alternate \$1,740,035
Bid Section 1

New Bid \$9,207,009

It should be noted that the cost/ft to install the force main by horizontal directional drill in Alternate Bid 1 is \$15/ft higher than what it is in the base bid. If \$415/ft is used instead of \$430/ft., Alternate Bid Section 1 would be \$58,905 lower which would put the new bid at \$9,148,104.

Please contact me with any questions or comments.

Sincerely,

EMC Engineering Services, Inc.

A handwritten signature in blue ink, appearing to read 'Ben Lockhart', is written over a horizontal line.

Ben Lockhart P.E., CFM
Sr. Project Manager / Associate

				Legacy Water Group, LLC		BRW Construction, LLC	Garney Companies	Astra Group, LLC	Ruby Collins, Inc.
Item	Description	Est. Quantity	Unit	Unit Price	TOTAL	Unit Price	Unit Price	Unit Price	Unit Price
SECTION 1 - CLEARING									
1	Clearing	9.3	AC	\$15,250.00	\$141,825.00	\$17,627.74	\$26,000.00	\$15,173.00	\$45,000.00
2	Remove & Replace Misc. Items (Trees, Shrubs, Signs, Traffic Striping, etc.)	1	LS	\$10,500.00	\$10,500.00	\$53,363.00	\$80,000.00	\$233,974.00	\$30,000.00
				Subtotal:	\$152,325.00	\$217,300.98	\$321,800.00	\$375,082.90	\$448,500.00
SECTION 2 - EARTHWORK									
1	Grading	1	LS	\$4,500.00	\$4,500.00	\$420,968.00	\$150,000.00	\$878,000.00	\$545,520.00
2	Mucking	4,000	CY	\$2.00	\$8,000.00	\$43.87	\$70.00	\$76.00	\$0.05
				Subtotal:	\$12,500.00	\$596,448.00	\$430,000.00	\$1,182,000.10	\$545,720.00
SECTION 3: EROSION AND SEDIMENTATION CONTROL									
1	Construction Exit	6	EA	\$1,800.00	\$10,800.00	\$4,025.33	\$2,500.00	\$14,502.00	\$6,500.00
2	Tree Protection Fence AS Directed by The Owner	500	LF	\$3.25	\$1,625.00	\$4.43	\$10.00	\$2.50	\$2.20
3	Hay Bale Check Dams	10	EA	\$130.00	\$1,300.00	\$392.50	\$735.00	\$253.00	\$135.00
4	Non Sensitive Silt Fence	38,225	LF	\$1.50	\$57,337.50	\$1.77	\$3.00	\$3.00	\$2.90
5	Sensitive Silt Fence	28,350	LF	\$2.85	\$80,797.50	\$3.61	\$4.50	\$4.00	\$5.80
6	Temporary Grassing	45,000	SY	\$0.30	\$13,500.00	\$0.59	\$0.50	\$0.50	\$0.40
7	Permanent Grassing	45,000	SY	\$1.00	\$45,000.00	\$0.88	\$1.00	\$0.70	\$3.10
8	Type 3 Rip Rap	20	SY	\$85.00	\$1,700.00	\$162.80	\$200.00	\$620.00	\$330.00
				Subtotal:	\$212,060.00	\$296,699.73	\$341,100.00	\$385,267.00	\$480,832.50
SECTION 4: STORM DRAINAGE									
1	18" RCP	90	LF	\$68.00	\$6,120.00	\$195.21	\$500.00	\$116.50	\$145.00
2	18" FES	12	EA	\$1,550.00	\$18,600.00	\$638.75	\$4,000.00	\$3,540.50	\$165.00
				Subtotal:	\$24,720.00	\$25,233.90	\$93,000.00	\$52,971.00	\$15,030.00
SECTION 5: FORCE MAIN									
1	18" PVC Force Main - Direct Bury With Fittings	23,350	LF	\$154.00	\$3,595,900.00	\$159.73	\$160.00	\$134.00	\$220.00
2	18" FPVC Force Main - Horizontal Directional Drill	2,330	LF	\$415.00	\$966,950.00	\$453.55	\$600.00	\$511.00	\$930.00
3	18" Ductile Iron Force Main - Jack and Bore	450	LF	\$345.00	\$155,250.00	\$259.37	\$200.00	\$763.50	\$405.00
4	18" Ductile Iron Force Main - Direct Bury With Fittings	295	LF	\$275.00	\$81,125.00	\$268.91	\$400.00	\$254.50	\$405.00
5	30" Steel Casing - Jack and Bore	400	LF	\$1,050.00	\$420,000.00	\$1,138.39	\$1,200.00	\$961.00	\$1,065.00
6	30" Steel Casing - Direct Bury	70	LF	\$325.00	\$22,750.00	\$549.95	\$750.00	\$389.50	\$390.00
7	16" Steel Casing Jack and Bore	125	LF	\$800.00	\$100,000.00	\$936.00	\$300.00	\$713.00	\$875.00
8	8" PVC Force Main - Direct Bury With Fittings	440	LF	\$72.00	\$31,680.00	\$139.39	\$130.00	\$126.50	\$190.00
9	8" Ductile Iron Force Main - Jack and Bore	140	LF	\$110.00	\$15,400.00	\$193.37	\$160.00	\$586.50	\$875.00
10	18" Plug Valve In Manhole	8	EA	\$32,000.00	\$256,000.00	\$43,603.19	\$32,000.00	\$24,782.00	\$30,000.00
11	Sand Backfill As Directed By The Engineer	5,000	CY	\$1.00	\$5,000.00	\$29.97	\$65.00	\$58.50	\$0.05
12	Stone Backfill As Directed By The Engineer	5,000	CY	\$1.00	\$5,000.00	\$101.76	\$90.00	\$66.00	\$0.05
13	Connect To Existing 18" Force Main At Hodgeville Road Lift Station	1	LS	\$21,000.00	\$21,000.00	\$146,688.00	\$170,000.00	\$56,139.50	\$40,000.00
14	Install Force Main At Effingham Treatment Plant-Includes All Piping, Plug Valves, Check Valves, Connection to Headworks, Bypassing, Installation of Flowmeter, Pipe and For Future Plant Connection	1	LS	\$725,000.00	\$725,000.00	\$766,441.00	\$750,000.00	\$369,452.00	\$545,000.00
15	Borrow Material For Trench Backfill As Directed By The Engineer	6,600	CY	\$10.00	\$66,000.00	\$26.96	\$67.00	\$50.50	\$0.05
16	Connect FPVC to PVC Force Main	7	EA	\$7,500.00	\$52,500.00	\$9,431.29	\$15,000.00	\$5,210.00	\$10,000.00
17	Connect FPVC to PVC Force Main at Gas Line Crossing Sta. 256+47	1	EA	\$11,500.00	\$11,500.00	\$82,724.00	\$25,000.00	\$4,203.00	\$10,000.00
18	Air Release Valve	17	EA	\$10,500.00	\$178,500.00	\$6,018.00	\$10,000.00	\$21,747.50	\$6,580.00
19	24" FPVC Casing - Horizontal Directional Drill	490	LF	\$500.00	\$245,000.00	\$483.61	\$7,000.00	\$389.50	\$765.00
				Subtotal:	\$6,954,555.00	\$8,268,326.30	\$9,027,800.00	\$7,557,625.50	\$9,766,940.00
SECTION 6: PAVEMENT									
1	Remove and Replace Asphalt Pavement and Driveways	90	SY	\$275.00	\$24,750.00	\$94.01	\$600.00	\$76.00	\$240.00
2	Remove and Replace Gravel Drive	6,300	SY	\$26.00	\$163,800.00	\$29.14	\$30.00	\$10.00	\$45.00
				Subtotal:	\$188,550.00	\$192,042.90	\$243,000.00	\$69,840.00	\$305,100.00
SECTION 7: MISCELLANEOUS ITEMS									
1	Mobilization (5% Max.)	1	LS	\$375,000.00	\$375,000.00	\$654,000.00	\$500,000.00	\$495,000.50	\$500,000.00
2	Construction Staking & As-builts	1	LS	\$210,000.00	\$210,000.00	\$73,449.00	\$132,000.00	\$176,510.00	\$145,000.00

3	Traffic Control	1	LS	\$7,000.00	\$7,000.00	\$9,989.00	\$70,000.00	\$180,819.00	\$50,000.00
4	Pothole Existing Utilities	30	EA	\$295.00	\$8,850.00	\$2,056.57	\$2,500.00	\$2,478.00	\$1,250.00
				Subtotal:	\$600,850.00	\$799,135.10	\$777,000.00	\$926,669.50	\$732,500.00
				Subtotal Base Bid:	\$8,145,560.00	\$10,395,186.91	\$11,233,700.00	\$10,549,456.00	\$12,294,622.50
ALTERNATE BID SECTION 1:									
1	18" FPVC Force Main - Horizontal Directional Drill Sta. 6+03.17± to Sta. 7+37.89±	135	LF	\$430.00	\$58,050.00	\$59.67	\$600.00	\$500.00	\$770.00
2	18" FPVC Force Main - Horizontal Directional Drill Sta. 21+61.56± to Sta. 24+16.79±	256	LF	\$430.00	\$110,080.00	\$561.63	\$600.00	\$500.00	\$770.00
3	18" FPVC Force Main - Horizontal Directional Drill Sta. 26+71.07± to Sta. 31+49.35±	479	LF	\$430.00	\$205,970.00	\$545.33	\$600.00	\$500.00	\$770.00
4	18" FPVC Force Main - Horizontal Directional Drill Sta. 34+66.74± to Sta. 36+26.96±	161	LF	\$430.00	\$69,230.00	\$582.28	\$600.00	\$500.00	\$770.00
5	18" FPVC Force Main - Horizontal Directional Drill Sta. 200+51.59± to Sta. 221+66.94±	2116	LF	\$430.00	\$909,880.00	\$578.12	\$600.00	\$500.00	\$770.00
6	18" FPVC Force Main - Horizontal Directional Drill Sta. 223+19.48± to Sta. 230+99.04±	780	LF	\$430.00	\$335,400.00	\$538.11	\$600.00	\$500.00	\$770.00
7	Connect FPVC to PVC Force Main	11	EA	\$4,675.00	\$51,425.00	\$15,306.91	\$15,000.00	\$4,750.00	\$10,500.00
				Subtotal:	\$1,740,035.00	\$2,318,196.61	\$2,521,200.00	\$2,015,750.00	\$3,139,290.00
ALTERNATE BID SECTION 2:									
1	18" Ductile Iron Forcemain - Direct Bury With Fittings	23,350	LF	\$300.00	\$7,005,000.00	\$258.26	\$230.00	\$286.00	\$350.00
				Subtotal:	\$7,005,000.00	\$6,030,371.00	\$5,370,500.00	\$6,678,100.00	\$8,172,500.00
ALTERNATE BID SECTION 3:									
1	24" FPVC Casing - Horizontal Directional Drill on Plan Sheets 11,12,and 13	1,800	LF	\$390.00	\$702,000.00	\$473.20	\$700.00	\$490.00	\$480.00
				Subtotal:	\$702,000.00	\$851,760.00	\$1,260,000.00	\$882,000.00	\$864,000.00

I CERTIFY THIS IS A TRUE AND ACCURATE ABSTRACT OF BIDS RECEIVED

Ben Lockhart, PE