



Roll Call Number

Agenda Item Number

55

DATE May 10, 2021

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON CLOSES CREEK STORM SEWER IMPROVEMENTS PHASE 2A AND 2B; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS RW EXCAVATING SOLUTIONS, LC, DAN E. WILSON, MANAGING MEMBER, \$5,997,160.44

WHEREAS, on March 22, 2021, under Roll Call No. 21-0448, plans, specifications, form of contract documents, and Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

Closes Creek Storm Sewer Improvements Phase 2A and 2B, 082021003

The improvement includes constructing new Reinforced Concrete Box (RCB) storm sewer sizes 6 feet x 4 feet, 6 feet by 6 feet, and 8 feet x 6 feet, Reinforced Concrete Pipe (RCP) storm sewer sizes 15-inches to 84-inches, trenchless storm sewer sizes 72-inches and 84-inches, precast manholes, cast-in-place manholes and intakes, Poly Vinyl Chloride (PVC) sanitary sewer sizes 10-inch, 15-inch, and 24-inch, Polypropylene Pipe (PP) storm sewer, cementitious storm sewer lining, Ductile iron (DI) water main, 4-inch and 6-inch Portland Cement Concrete (PCC) pavement, Hot-Mix Asphalt (HMA) paving, PCC curb and gutter, subdrain and footing drains, earthwork and grading, gabions, erosion control, fencing, restoration, and other associated and incidental items; all in accordance with contract documents, including Plan File Nos. 628-019/112, generally located from Beaver Avenue south of Witmer Parkway northeasterly to 33rd Street and Mondamin Avenue and also from College Avenue and 41st Street northerly to Northwest Drive, Des Moines, Iowa

WHEREAS, notice of the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost was published as required by law.

WHEREAS, in accordance with said notice, those interested in said proposed plans, specifications, form of contract documents, and Engineer's estimate of construction cost both for and against, have been given opportunity to be heard with respect thereto and have presented their views to the City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the upon due consideration of the facts, and any and all statements of interested persons, any objections to the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement are overruled and the hearing is closed and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are here by approved.

BE IT FURTHER RESOLVED: That sealed bids for said improvement were submitted by the following bidders:



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- RW Excavating Solutions, LC, Prairie City, IA Low Bid
- Raccoon Valley Contractors, LLC., Waukee, IA
- Progressive Structures, LLC, Elkader, IA
- Synergy Contracting, LLC, Bondurant, IA
- Rognes Corp. , Ankeny, IA
- Jasper Construction Services, Inc., Newton, IA
- S. M. Hentges & Sons Inc., Jordan, MN Bid not read - Proposal missing pages

which were received and opened at a public meeting presided over by the Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on April 6, 2021. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Des Moines City Engineer, as the Engineer, has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by RW Excavating Solutions, LC, Dan E. Wilson, Managing Member, 13293 S.88th Avenue W, Prairie City, IA, 50228 in the amount of \$5,997,160.44, and said bid be and the same is hereby accepted.

BE IT FURTHER RESOLVED: That the bid security of the unsuccessful bidders be and is hereby authorized and directed to be returned in accordance with the Instructions to Bidders.



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BE IT FURTHER RESOLVED: That the Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Engineer is directed to thereafter present said contract documents to this Council for approval and authorization to the Mayor to sign; and that no contract shall be deemed to exist between the City of Des Moines and said Bidder until said contract has been executed by the Bidder, and shall have been approved by this Council and executed by the Mayor and attested to by the City Clerk.

BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary road closures for the Project.

(Council Communication No. 21-207)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

s/Kathleen Vanderpool

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

SLN

Funding Source: 2021-2022 CIP, Page 98, Closes Creek Watershed Improvements, SM068, Being: \$1,870,700.44 of Stormwater Utility Bonds Issued; \$4,021,302 Stormwater Utility Bonds to be issued; and the remaining \$105,158 from Des Moines Water Works

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
WESTERGAARD				
GRAY				
BOESEN				
VOSS				
MANDELBAUM				
GATTO				
TOTAL				

I, P. Kay Cmelik, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

MOTION CARRIED APPROVED

Mayor

City Clerk

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
114	Conventional Seeding, Native Seed, Tall Sedge Meadow Mix	0.2 AC	\$5,000.00	\$1,000.00	\$6,000.00	\$1,200.00	\$3,978.00	\$795.60	\$3,900.00	\$780.00	\$5,460.00	\$1,092.00
115	Conventional Seeding, Native Seed, Slope Mix	1.75 AC	\$3,500.00	\$6,125.00	\$6,000.00	\$10,500.00	\$3,978.00	\$6,961.50	\$3,900.00	\$6,825.00	\$5,460.00	\$9,555.00
116	Hydraulic Seeding, Type 1	1.1 AC	\$5,000.00	\$5,500.00	\$6,000.00	\$6,600.00	\$3,162.00	\$3,478.20	\$3,100.00	\$3,410.00	\$4,340.00	\$4,774.00
117	Hydraulic Seeding, Type 2	1.5 AC	\$5,000.00	\$7,500.00	\$6,000.00	\$9,000.00	\$2,856.00	\$4,284.00	\$2,800.00	\$4,200.00	\$3,920.00	\$5,880.00
118	Plants with Warranty, Overstory Trees	34 EA	\$1,000.00	\$34,000.00	\$562.50	\$19,125.00	\$351.90	\$11,964.60	\$345.00	\$11,730.00	\$483.00	\$16,422.00
119	Plants with Warranty, Ornamental Trees	22 EA	\$500.00	\$11,000.00	\$512.50	\$11,275.00	\$280.50	\$6,171.00	\$275.00	\$6,050.00	\$385.00	\$8,470.00
120	Plants with Warranty, Shrub	235 EA	\$350.00	\$82,250.00	\$240.00	\$56,400.00	\$71.40	\$16,779.00	\$70.00	\$16,450.00	\$98.00	\$23,030.00
121	Stormwater Pollution Prevention	1 LS	\$55,000.00	\$55,000.00	\$20,000.00	\$20,000.00	\$5,610.00	\$5,610.00	\$5,500.00	\$5,500.00	\$7,700.00	\$7,700.00
122	Temporary RECP, Type 2	8000 SY	\$3.00	\$24,000.00	\$2.50	\$20,000.00	\$1.38	\$11,040.00	\$1.35	\$10,800.00	\$3.50	\$28,000.00
123	Check Dam, Rock	50 TON	\$90.00	\$4,500.00	\$80.00	\$4,000.00	\$56.10	\$2,805.00	\$80.00	\$4,000.00	\$84.00	\$4,200.00
124	Rip Rap, Class D	2484 TON	\$90.00	\$223,560.00	\$65.00	\$161,460.00	\$66.30	\$164,689.20	\$62.50	\$155,250.00	\$91.00	\$226,044.00
125	Concrete Grout for Rip Rap	508 CY	\$300.00	\$152,400.00	\$250.00	\$127,000.00	\$168.30	\$85,496.40	\$210.00	\$106,680.00	\$238.00	\$120,904.00
126	Stabilized Construction Entrance	150 TON	\$40.00	\$6,000.00	\$45.00	\$6,750.00	\$45.90	\$6,885.00	\$48.00	\$7,200.00	\$63.00	\$9,450.00
127	Erosion Control Mulching, Hydromulching	5.65 AC	\$5,000.00	\$28,250.00	\$4,500.00	\$25,425.00	\$1,530.00	\$8,644.50	\$1,500.00	\$8,475.00	\$2,100.00	\$11,865.00
128	Inlet Protection Device	23 EA	\$200.00	\$4,600.00	\$150.00	\$3,450.00	\$178.50	\$4,105.50	\$175.00	\$4,025.00	\$245.00	\$5,635.00
129	Inlet Protection Device, Maintenance	46 EA	\$50.00	\$2,300.00	\$50.00	\$2,300.00	\$25.50	\$1,173.00	\$25.00	\$1,150.00	\$35.00	\$1,610.00
130	Linear Erosion Control	6900 LF	\$3.00	\$20,700.00	\$3.00	\$20,700.00	\$1.53	\$10,557.00	\$1.50	\$10,350.00	\$3.50	\$24,150.00
131	Linear Erosion Control, Removal	6900 LF	\$1.00	\$6,900.00	\$1.00	\$6,900.00	\$0.28	\$1,932.00	\$0.25	\$1,725.00	\$0.50	\$3,450.00
132	Gabions	121 CY	\$500.00	\$60,500.00	\$420.00	\$50,820.00	\$198.90	\$24,066.90	\$320.00	\$38,720.00	\$273.00	\$33,033.00
133	Gabions, Removal	140 CY	\$50.00	\$7,000.00	\$50.00	\$7,000.00	\$96.90	\$13,566.00	\$80.00	\$11,200.00	\$133.00	\$18,620.00
134	Fence, Chain Link, 4 ft	542 LF	\$40.00	\$21,680.00	\$30.00	\$16,260.00	\$27.90	\$15,121.80	\$27.35	\$14,823.70	\$42.00	\$22,764.00
135	Fence, Chain Link, 6 ft	148 LF	\$50.00	\$7,400.00	\$31.00	\$4,588.00	\$29.02	\$4,294.96	\$28.45	\$4,210.60	\$42.00	\$6,216.00
136	Fence, Wood Privacy, 4 ft	42 LF	\$85.00	\$3,570.00	\$50.00	\$2,100.00	\$47.94	\$2,013.48	\$47.00	\$1,974.00	\$70.00	\$2,940.00
137	Fence, Wood Privacy, 6 ft	64 LF	\$100.00	\$6,400.00	\$53.00	\$3,392.00	\$53.24	\$3,407.36	\$52.20	\$3,340.80	\$77.00	\$4,928.00
138	Gates, Chain Link, 4 ft High x 4 ft Span	1 EA	\$750.00	\$750.00	\$320.00	\$320.00	\$306.00	\$306.00	\$300.00	\$300.00	\$420.00	\$420.00
139	Gates, Chain Link, 4 ft High x 5 ft Span	2 EA	\$750.00	\$1,500.00	\$350.00	\$700.00	\$331.50	\$663.00	\$325.00	\$650.00	\$455.00	\$910.00
140	Removal of Fence	1400 LF	\$10.00	\$14,000.00	\$5.00	\$7,000.00	\$3.57	\$4,998.00	\$3.50	\$4,900.00	\$3.50	\$4,900.00
141	Temporary Chain Link Fence, 4 ft	130 LF	\$30.00	\$3,900.00	\$20.00	\$2,600.00	\$8.67	\$1,127.10	\$8.50	\$1,105.00	\$14.00	\$1,820.00
142	Tree Protection Fence	1500 LF	\$5.00	\$7,500.00	\$3.50	\$5,250.00	\$2.55	\$3,825.00	\$2.50	\$3,750.00	\$3.50	\$5,250.00
143	Mobilization	1 LS	\$491,190.50	\$491,190.50	\$430,000.00	\$430,000.00	\$550,229.70	\$550,229.70	\$1,800,000.00	\$1,800,000.00	\$390,000.00	\$390,000.00
144	Maintenance of Postal Service	1 LS	\$7,500.00	\$7,500.00	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$9,000.00	\$9,000.00	\$5,600.00	\$5,600.00
145	Maintenance of Solid Waste Collection	1 LS	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$9,100.00	\$9,100.00
146	Concrete Washout	1 LS	\$7,500.00	\$7,500.00	\$3,500.00	\$3,500.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$700.00	\$700.00
147	Vibration Monitoring	1 LS	\$100,000.00	\$100,000.00	\$65,000.00	\$65,000.00	\$69,286.56	\$69,286.56	\$125,000.00	\$125,000.00	\$95,200.00	\$95,200.00
148	Project Sign, Stormwater	4 EA	\$500.00	\$2,000.00	\$750.00	\$3,000.00	\$612.00	\$2,448.00	\$1,000.00	\$4,000.00	\$3,500.00	\$14,000.00
TOTAL CONSTRUCTION COST				\$8,000,000.00		\$5,997,160.44		\$6,853,385.43		#####		\$7,760,536.00
PERCENT OF ENGINEER'S ESTIMATE						-25.04%		-14.33%		-3.38%		-2.99%
						Low						

TABULATED BY: L.A. Vaughan

APPROVED BY: 

CHECKED BY: _____

CONTRACTOR'S BID TABULATION

PROJECT: CLOSERS CREEK STORM SEWER IMPROVEMENTS - PHASE 2A AND 2B

ESTIMATE

Rognes Corporation Ankeny, IA	Jasper Construction Services, Inc. Newton, IA	S.M. Hentges & Sons, Inc.
BID SECURITY 10% Bid Bond	BID SECURITY 10% Bid Bond	BID SECURITY
BID PRICE	BID PRICE	BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	Clearing and Grubbing	4.18 AC	\$10,000.00	\$41,800.00	\$10,000.00	\$41,800.00	\$20,000.00	\$83,600.00		
2	Topsoil, On-site	3856 CY	\$25.00	\$96,400.00	\$18.00	\$69,408.00	\$20.00	\$77,120.00		
3	Excavation, Class 13	24652 CY	\$25.00	\$616,300.00	\$14.00	\$345,128.00	\$20.00	\$493,040.00		
4	Below Grade Excavation (Core Out)	542 CY	\$30.00	\$16,260.00	\$50.00	\$27,100.00	\$20.00	\$10,840.00		
5	Subgrade Preparation	2648 SY	\$8.00	\$21,184.00	\$3.00	\$7,944.00	\$5.00	\$13,240.00		
6	Subgrade Treatment, Geogrid, Type 2	2648 SY	\$5.00	\$13,240.00	\$5.00	\$13,240.00	\$5.00	\$13,240.00		
7	Subbase, Modified	1424 TON	\$40.00	\$56,960.00	\$38.00	\$54,112.00	\$45.00	\$64,080.00		
8	Subbase, Special Backfill	223 TON	\$35.00	\$7,805.00	\$40.00	\$8,920.00	\$45.00	\$10,035.00		
9	Filling and Plugging of Known Pipe and Conduit	374 CY	\$300.00	\$112,200.00	\$255.00	\$95,370.00	\$295.00	\$110,330.00		
10	Trench Foundation	980 TON	\$50.00	\$49,000.00	\$47.00	\$46,060.00	\$25.00	\$24,500.00		
11	Imported Granular Backfill	3200 TON	\$40.00	\$128,000.00	\$38.00	\$121,600.00	\$50.00	\$160,000.00		
12	Special Pipe Support	7 EA	\$2,000.00	\$14,000.00	\$2,800.00	\$19,600.00	\$2,400.00	\$16,800.00		
13	Sanitary Sewer Gravity Main, Trenched, PVC, 10 in	196 LF	\$85.00	\$16,660.00	\$120.00	\$23,520.00	\$110.00	\$21,560.00		
14	Sanitary Sewer Gravity Main, Trenched, PVC, 15 in	286 LF	\$110.00	\$31,460.00	\$158.00	\$45,188.00	\$125.00	\$35,750.00		
15	Sanitary Sewer Gravity Main, Trenched, PVC, 24 in	662 LF	\$150.00	\$99,300.00	\$215.00	\$142,330.00	\$205.00	\$135,710.00		
16	Sanitary Sewer Service Replacement	7 EA	\$4,000.00	\$28,000.00	\$4,400.00	\$30,800.00	\$3,800.00	\$26,600.00		
17	Removal of Sanitary Sewer	842 LF	\$30.00	\$25,260.00	\$30.00	\$25,260.00	\$35.00	\$29,470.00		
18	Storm Sewer, Trenched, RCP, 15 in	136 LF	\$150.00	\$20,400.00	\$152.00	\$20,672.00	\$95.00	\$12,920.00		
19	Storm Sewer, Trenched, RCP, 18 in	202 LF	\$175.00	\$35,350.00	\$155.00	\$31,310.00	\$110.00	\$22,220.00		
20	Storm Sewer, Trenched, RCP, 24 in	147 LF	\$200.00	\$29,400.00	\$165.00	\$24,255.00	\$125.00	\$18,375.00		
21	Storm Sewer, Trenched, PP, 24 in	149 LF	\$150.00	\$22,350.00	\$175.00	\$26,075.00	\$125.00	\$18,625.00		
22	Storm Sewer, Trenched, RCP, 30 in	177 LF	\$220.00	\$38,940.00	\$185.00	\$32,745.00	\$160.00	\$28,320.00		
23	Storm Sewer, Trenched, RCP, 36 in	68 LF	\$240.00	\$16,320.00	\$205.00	\$13,940.00	\$185.00	\$12,580.00		
24	Storm Sewer, Trenched, RCP, 42 in	31 LF	\$300.00	\$9,300.00	\$255.00	\$7,905.00	\$270.00	\$8,370.00		
25	Storm Sewer, Trenched, RCP, 72 in	224 LF	\$600.00	\$134,400.00	\$525.00	\$117,600.00	\$540.00	\$120,960.00		
26	Storm Sewer, Trenchless, RCP, 72 in, Class IV	495 LF	\$2,800.00	\$1,386,000.00	\$3,900.00	\$1,930,500.00	\$2,000.00	\$990,000.00		
27	Removal of Storm Sewer, RCP, <30 in	595 LF	\$25.00	\$14,875.00	\$25.00	\$14,875.00	\$30.00	\$17,850.00		
28	Removal of Storm Sewer, RCP, >36 in	276 LF	\$35.00	\$9,660.00	\$35.00	\$9,660.00	\$45.00	\$12,420.00		
29	Removal of Culvert, RCB, 4 ft Span	747 LF	\$150.00	\$112,050.00	\$135.00	\$100,845.00	\$225.00	\$168,075.00		
30	Removal of RCB Headwall	1 EA	\$5,000.00	\$5,000.00	\$6,600.00	\$6,600.00	\$7,500.00	\$7,500.00		
31	Pipe Culvert, Trenched, RCP, 54 in	86 LF	\$500.00	\$43,000.00	\$335.00	\$28,810.00	\$285.00	\$24,510.00		
32	Pipe Culvert, Trenched, RCP, 84 in, Class IV	157 LF	\$650.00	\$102,050.00	\$765.00	\$120,105.00	\$805.00	\$126,385.00		
33	Pipe Culvert, Trenchless, RCP, 84 in, Class IV	300 LF	\$3,750.00	\$1,125,000.00	\$3,900.00	\$1,170,000.00	\$2,700.00	\$810,000.00		
34	Pipe Apron, 15 in	1 EA	\$2,000.00	\$2,000.00	\$2,600.00	\$2,600.00	\$2,500.00	\$2,500.00		
35	Pipe Apron, 24 in	1 EA	\$2,500.00	\$2,500.00	\$3,100.00	\$3,100.00	\$3,500.00	\$3,500.00		
36	Pipe Apron, 42 in	1 EA	\$3,500.00	\$3,500.00	\$5,600.00	\$5,600.00	\$6,000.00	\$6,000.00		
37	Pipe Apron, 54 in	2 EA	\$5,000.00	\$10,000.00	\$7,800.00	\$15,600.00	\$7,500.00	\$15,000.00		
38	Pipe Apron, 72 in	2 EA	\$7,500.00	\$15,000.00	\$10,800.00	\$21,600.00	\$11,000.00	\$22,000.00		
39	Pipe Apron, 84 in	4 EA	\$10,000.00	\$40,000.00	\$15,500.00	\$62,000.00	\$14,500.00	\$58,000.00		
40	Reinforced Concrete Box (RCB), Single Cell, 6 ft x 4 ft	99 LF	\$1,000.00	\$99,000.00	\$800.00	\$79,200.00	\$1,500.00	\$148,500.00		
41	Reinforced Concrete Box (RCB), Single Cell, 6 ft x 6 ft	20 LF	\$1,500.00	\$30,000.00	\$850.00	\$17,000.00	\$1,800.00	\$36,000.00		
42	Reinforced Concrete Box (RCB), Single Cell, 8 ft x 6 ft	171 LF	\$1,500.00	\$256,500.00	\$900.00	\$153,900.00	\$1,650.00	\$282,150.00		
43	Sloped End Section, Reinforced Concrete Box (RCB), Single Cell, 8 ft x 6 ft	1 EA	\$10,000.00	\$10,000.00	\$14,500.00	\$14,500.00	\$15,000.00	\$15,000.00		
44	Parallel Wing Headwall, PCC, Cast-In-Place, 4 ft x 6 ft	4 EA	\$15,000.00	\$60,000.00	\$25,000.00	\$100,000.00	\$25,000.00	\$100,000.00		
45	Parallel Wing Headwall, Reinforced Concrete Box (RCB), Single Cell, 6 ft x 6 ft	1 EA	\$10,000.00	\$10,000.00	\$15,500.00	\$15,500.00	\$25,000.00	\$25,000.00		
46	Concrete Collar Connection, 4 ft x 6 ft	5 EA	\$18,000.00	\$90,000.00	\$21,000.00	\$105,000.00	\$12,000.00	\$60,000.00		
47	Concrete Collar Connection, 6 ft x 6 ft	1 EA	\$20,000.00	\$20,000.00	\$22,000.00	\$22,000.00	\$15,000.00	\$15,000.00		
48	Culvert Rehabilitation, Lining	170 LF	\$950.00	\$161,500.00	\$1,000.00	\$170,000.00	\$1,200.00	\$204,000.00		
49	Subdrain, Type 1, 6 in	1205 LF	\$30.00	\$36,150.00	\$25.00	\$30,125.00	\$25.00	\$30,125.00		
50	Footing Drain Collector, Type 2, Case D, 8 in	337 LF	\$40.00	\$13,480.00	\$45.00	\$15,165.00	\$50.00	\$16,850.00		
51	Subdrain Cleanout, Type A-1, 6 in	14 EA	\$750.00	\$10,500.00	\$800.00	\$11,200.00	\$1,200.00	\$16,800.00		

Bid not read. Proposal was missing pages.

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
52	Footing Drain Cleanout, Type B, 24 in	1 EA	\$2,000.00	\$2,000.00	\$2,100.00	\$2,100.00	\$2,500.00	\$2,500.00		
53	Subdrain Outlet and Connections, 6 in	16 EA	\$750.00	\$12,000.00	\$450.00	\$7,200.00	\$250.00	\$4,000.00		
54	Footing Drain Outlet and Connection, 8 in	1 EA	\$800.00	\$800.00	\$600.00	\$600.00	\$300.00	\$300.00		
55	Sump Drain Service Connection	3 EA	\$500.00	\$1,500.00	\$450.00	\$1,350.00	\$700.00	\$2,100.00		
56	Water Main, Trenched, DIP, 8 in	376 LF	\$160.00	\$60,160.00	\$205.00	\$77,080.00	\$150.00	\$56,400.00		
57	Fitting, Bend, 8 in	11 EA	\$850.00	\$9,350.00	\$850.00	\$9,350.00	\$800.00	\$8,800.00		
58	Fitting, Solid Sleeve, 8 in	6 EA	\$1,000.00	\$6,000.00	\$750.00	\$4,500.00	\$1,500.00	\$9,000.00		
59	Water Service, 1 in, Opposite Side	4 EA	\$3,000.00	\$12,000.00	\$5,400.00	\$21,600.00	\$4,000.00	\$16,000.00		
60	Water Service, 1 in, Same Side	1 EA	\$2,500.00	\$2,500.00	\$3,400.00	\$3,400.00	\$2,500.00	\$2,500.00		
61	Magnesium Anode, 32-lb	9 EA	\$1,000.00	\$9,000.00	\$850.00	\$7,650.00	\$850.00	\$7,650.00		
62	Removal of Water Main	363 LF	\$80.00	\$29,040.00	\$55.00	\$19,965.00	\$30.00	\$10,890.00		
63	Manhole, Type SW-301, 48 in	5 EA	\$7,500.00	\$37,500.00	\$7,000.00	\$35,000.00	\$7,500.00	\$37,500.00		
64	Manhole, Type SW-303, 48 in	2 EA	\$7,500.00	\$15,000.00	\$13,000.00	\$26,000.00	\$9,500.00	\$19,000.00		
65	Manhole, Type SW-401, 48 in	1 EA	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$6,500.00	\$6,500.00		
66	Manhole, Type SW-401, 72 in	2 EA	\$10,000.00	\$20,000.00	\$9,000.00	\$18,000.00	\$10,500.00	\$21,000.00		
67	Manhole, Type SW-402, Modified, 72 in x 48 in	1 EA	\$15,000.00	\$15,000.00	\$35,000.00	\$35,000.00	\$19,000.00	\$19,000.00		
68	Manhole, Type SW-404, 9 ft x 5 ft, 48 in Riser	1 EA	\$50,000.00	\$50,000.00	\$55,000.00	\$55,000.00	\$54,000.00	\$54,000.00		
69	Manhole, Type SW-404, 9 ft x 9 ft, 60 in Riser	1 EA	\$75,000.00	\$75,000.00	\$65,000.00	\$65,000.00	\$83,000.00	\$83,000.00		
70	Manhole, Type SW-404, 12 ft x 5 ft	1 EA	\$85,000.00	\$85,000.00	\$72,000.00	\$72,000.00	\$91,500.00	\$91,500.00		
71	Manhole, Type SW-404, Modified	1 EA	\$7,500.00	\$7,500.00	\$12,500.00	\$12,500.00	\$6,700.00	\$6,700.00		
72	Manhole, Type SW-405, 72 in	1 EA	\$10,000.00	\$10,000.00	\$13,500.00	\$13,500.00	\$8,500.00	\$8,500.00		
73	Manhole, Type SW-405, 84 in	1 EA	\$12,500.00	\$12,500.00	\$17,500.00	\$17,500.00	\$12,500.00	\$12,500.00		
74	Intake, Type SW-505	9 EA	\$10,000.00	\$90,000.00	\$12,500.00	\$112,500.00	\$13,500.00	\$121,500.00		
75	Intake, Type SW-506	4 EA	\$12,500.00	\$50,000.00	\$13,500.00	\$54,000.00	\$16,500.00	\$66,000.00		
76	Intake, Type SW-509	3 EA	\$15,000.00	\$45,000.00	\$15,000.00	\$45,000.00	\$16,000.00	\$48,000.00		
77	Intake, Type SW-512, 30 in	1 EA	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00		
78	Intake, Type SW-541	2 EA	\$10,000.00	\$20,000.00	\$17,500.00	\$35,000.00	\$11,000.00	\$22,000.00		
79	Intake Extension, Type SW-542	4 EA	\$5,000.00	\$20,000.00	\$9,500.00	\$38,000.00	\$13,500.00	\$54,000.00		
80	Intake, Type SW-545, 14 ft Curb Opening	1 EA	\$12,500.00	\$12,500.00	\$18,500.00	\$18,500.00	\$24,250.00	\$24,250.00		
81	Intake, Type SW-545, 16 ft Curb Opening	1 EA	\$15,000.00	\$15,000.00	\$19,500.00	\$19,500.00	\$24,500.00	\$24,500.00		
82	Intake, Type SW-545, 18 ft Curb Opening	1 EA	\$17,500.00	\$17,500.00	\$20,500.00	\$20,500.00	\$24,750.00	\$24,750.00		
83	Area Intake on Existing RCB	1 EA	\$2,500.00	\$2,500.00	\$4,500.00	\$4,500.00	\$8,200.00	\$8,200.00		
84	Outlet Structure Modifications	1 EA	\$15,000.00	\$15,000.00	\$35,000.00	\$35,000.00	\$60,000.00	\$60,000.00		
85	External Drop Connection, SW-307, 6 in	1 EA	\$6,000.00	\$6,000.00	\$5,800.00	\$5,800.00	\$7,500.00	\$7,500.00		
86	External Drop Connection, SW-307, 10 in	1 EA	\$8,000.00	\$8,000.00	\$7,500.00	\$7,500.00	\$9,500.00	\$9,500.00		
87	External Drop Connection, SW-307, 15 in	1 EA	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$14,000.00	\$14,000.00		
88	Manhole Adjustment, Minor	5 EA	\$2,500.00	\$12,500.00	\$2,300.00	\$11,500.00	\$3,500.00	\$17,500.00		
89	Manhole Adjustment, Major	3 EA	\$3,500.00	\$10,500.00	\$4,000.00	\$12,000.00	\$6,500.00	\$19,500.00		
90	Connection to Existing Intake	1 EA	\$3,500.00	\$3,500.00	\$1,500.00	\$1,500.00	\$5,500.00	\$5,500.00		
91	Connection to Existing RCB	2 EA	\$3,500.00	\$7,000.00	\$2,000.00	\$4,000.00	\$5,500.00	\$11,000.00		
92	Remove Intake	10 EA	\$1,500.00	\$15,000.00	\$850.00	\$8,500.00	\$1,500.00	\$15,000.00		
93	Remove Manhole, Standard	7 EA	\$1,500.00	\$10,500.00	\$850.00	\$5,950.00	\$1,500.00	\$10,500.00		
94	Remove Manhole, Large	6 EA	\$3,000.00	\$18,000.00	\$1,500.00	\$9,000.00	\$4,000.00	\$24,000.00		
95	Pavement, PCC, 6 in	513 SY	\$75.00	\$38,475.00	\$75.00	\$38,475.00	\$85.00	\$43,605.00		
96	Curb and Gutter, 2.5', 6 in	1086 LF	\$50.00	\$54,300.00	\$28.00	\$30,408.00	\$35.00	\$38,010.00		
97	Pavement, HMA ST Base, 1" Mix, PG 58-28 S	336 TON	\$120.00	\$40,320.00	\$86.00	\$28,896.00	\$86.00	\$28,896.00		
98	Pavement, HMA ST Surface, 1/2" Mix, No Fric., PG 58-28 V	256 TON	\$120.00	\$30,720.00	\$85.00	\$21,760.00	\$85.00	\$21,760.00		
99	HMA Pavement Samples and Testing	1 LS	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00		
100	Removal of Sidewalk	282 SY	\$15.00	\$4,230.00	\$20.00	\$5,640.00	\$14.00	\$3,948.00		
101	Removal of Driveway	395 SY	\$15.00	\$5,925.00	\$20.00	\$7,900.00	\$14.00	\$5,530.00		
102	Sidewalk, PCC, 4 in	242 SY	\$60.00	\$14,520.00	\$58.00	\$14,036.00	\$75.00	\$18,150.00		
103	Sidewalk, PCC, 6 in	40 SY	\$100.00	\$4,000.00	\$85.00	\$3,400.00	\$85.00	\$3,400.00		
104	Detectable Warnings	8 SF	\$75.00	\$600.00	\$65.00	\$520.00	\$100.00	\$800.00		
105	Driveway, Paved, PCC, 6 in	185 SY	\$85.00	\$15,725.00	\$70.00	\$12,950.00	\$85.00	\$15,725.00		
106	Driveway, Paved, PCC, 6 in, Reinforced	62 SY	\$100.00	\$6,200.00	\$77.00	\$4,774.00	\$100.00	\$6,200.00		
107	Full Depth Patches, PCC	32 SY	\$160.00	\$5,120.00	\$155.00	\$4,960.00	\$200.00	\$6,400.00		
108	Pavement Removal	2483 SY	\$20.00	\$49,660.00	\$24.00	\$59,592.00	\$14.00	\$34,762.00		
109	Curb and Gutter Removal	70 LF	\$12.00	\$840.00	\$30.00	\$2,100.00	\$25.00	\$1,750.00		
110	Painted Pavement Markings, Durable	3.61 STA	\$550.00	\$1,985.50	\$275.00	\$992.75	\$700.00	\$2,527.00		
111	Temporary Traffic Control	1 LS	\$75,000.00	\$75,000.00	\$23,600.00	\$23,600.00	\$145,000.00	\$145,000.00		
112	Conventional Seeding, Lawn Seed	0.1 AC	\$10,000.00	\$1,000.00	\$5,000.00	\$500.00	\$5,000.00	\$500.00		
113	Conventional Seeding, Native Seed, Detention Basin Mix	1 AC	\$4,000.00	\$4,000.00	\$3,900.00	\$3,900.00	\$3,900.00	\$3,900.00		

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
114	Conventional Seeding, Native Seed, Tall Sedge Meadow Mix	0.2 AC	\$5,000.00	\$1,000.00	\$3,900.00	\$780.00	\$3,900.00	\$780.00		
115	Conventional Seeding, Native Seed, Slope Mix	1.75 AC	\$3,500.00	\$6,125.00	\$3,900.00	\$6,825.00	\$3,900.00	\$6,825.00		
116	Hydraulic Seeding, Type 1	1.1 AC	\$5,000.00	\$5,500.00	\$3,100.00	\$3,410.00	\$3,100.00	\$3,410.00		
117	Hydraulic Seeding, Type 2	1.5 AC	\$5,000.00	\$7,500.00	\$2,800.00	\$4,200.00	\$2,800.00	\$4,200.00		
118	Plants with Warranty, Overstory Trees	34 EA	\$1,000.00	\$34,000.00	\$345.00	\$11,730.00	\$345.00	\$11,730.00		
119	Plants with Warranty, Ornamental Trees	22 EA	\$500.00	\$11,000.00	\$275.00	\$6,050.00	\$275.00	\$6,050.00		
120	Plants with Warranty, Shrub	235 EA	\$350.00	\$82,250.00	\$70.00	\$16,450.00	\$70.00	\$16,450.00		
121	Stormwater Pollution Prevention	1 LS	\$55,000.00	\$55,000.00	\$5,500.00	\$5,500.00	\$50,000.00	\$50,000.00		
122	Temporary RECP, Type 2	8000 SY	\$3.00	\$24,000.00	\$1.35	\$10,800.00	\$1.35	\$10,800.00		
123	Check Dam, Rock	50 TON	\$90.00	\$4,500.00	\$52.00	\$2,600.00	\$65.00	\$3,250.00		
124	Rip Rap, Class D	2484 TON	\$90.00	\$223,560.00	\$65.00	\$161,460.00	\$65.00	\$161,460.00		
125	Concrete Grout for Rip Rap	508 CY	\$300.00	\$152,400.00	\$175.00	\$88,900.00	\$165.00	\$83,820.00		
126	Stabilized Construction Entrance	150 TON	\$40.00	\$6,000.00	\$45.00	\$6,750.00	\$45.00	\$6,750.00		
127	Erosion Control Mulching, Hydromulching	5.65 AC	\$5,000.00	\$28,250.00	\$1,500.00	\$8,475.00	\$1,500.00	\$8,475.00		
128	Inlet Protection Device	23 EA	\$200.00	\$4,600.00	\$175.00	\$4,025.00	\$175.00	\$4,025.00		
129	Inlet Protection Device, Maintenance	46 EA	\$50.00	\$2,300.00	\$25.00	\$1,150.00	\$25.00	\$1,150.00		
130	Linear Erosion Control	6900 LF	\$3.00	\$20,700.00	\$1.50	\$10,350.00	\$1.50	\$10,350.00		
131	Linear Erosion Control, Removal	6900 LF	\$1.00	\$6,900.00	\$0.25	\$1,725.00	\$0.25	\$1,725.00		
132	Gabions	121 CY	\$500.00	\$60,500.00	\$275.00	\$33,275.00	\$195.00	\$23,595.00		
133	Gabions, Removal	140 CY	\$50.00	\$7,000.00	\$70.00	\$9,800.00	\$95.00	\$13,300.00		
134	Fence, Chain Link, 4 ft	542 LF	\$40.00	\$21,680.00	\$28.00	\$15,176.00	\$28.00	\$15,176.00		
135	Fence, Chain Link, 6 ft	148 LF	\$50.00	\$7,400.00	\$29.00	\$4,292.00	\$29.00	\$4,292.00		
136	Fence, Wood Privacy, 4 ft	42 LF	\$85.00	\$3,570.00	\$50.00	\$2,100.00	\$47.00	\$1,974.00		
137	Fence, Wood Privacy, 6 ft	64 LF	\$100.00	\$6,400.00	\$55.00	\$3,520.00	\$53.00	\$3,392.00		
138	Gates, Chain Link, 4 ft High x 4 ft Span	1 EA	\$750.00	\$750.00	\$300.00	\$300.00	\$300.00	\$300.00		
139	Gates, Chain Link, 4 ft High x 5 ft Span	2 EA	\$750.00	\$1,500.00	\$325.00	\$650.00	\$325.00	\$650.00		
140	Removal of Fence	1400 LF	\$10.00	\$14,000.00	\$3.50	\$4,900.00	\$3.50	\$4,900.00		
141	Temporary Chain Link Fence, 4 ft	130 LF	\$30.00	\$3,900.00	\$8.50	\$1,105.00	\$8.50	\$1,105.00		
142	Tree Protection Fence	1500 LF	\$5.00	\$7,500.00	\$3.50	\$5,250.00	\$2.50	\$3,750.00		
143	Mobilization	1 LS	\$491,190.50	\$491,190.50	\$447,136.25	\$447,136.25	\$975,000.00	\$975,000.00		
144	Maintenance of Postal Service	1 LS	\$7,500.00	\$7,500.00	\$3,500.00	\$3,500.00	\$25,000.00	\$25,000.00		
145	Maintenance of Solid Waste Collection	1 LS	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00	\$25,000.00	\$25,000.00		
146	Concrete Washout	1 LS	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$35,000.00	\$35,000.00		
147	Vibration Monitoring	1 LS	\$100,000.00	\$100,000.00	\$25,000.00	\$25,000.00	\$121,200.00	\$121,200.00		
148	Project Sign, Stormwater	4 EA	\$500.00	\$2,000.00	\$1,000.00	\$4,000.00	\$800.00	\$3,200.00		
TOTAL CONSTRUCTION COST				\$8,000,000.00		\$7,780,000.00		\$7,882,937.00		\$0.00
PERCENT OF ENGINEER'S ESTIMATE						-2.75%		-1.46%		-100.00%