



Roll Call Number

Agenda Item Number

62

DATE March 7, 2022

HEARING ON DES MOINES LEVEE ALTERATIONS - PHASE C
REJECT ALL BIDS ON DES MOINES LEVEE ALTERATIONS - PHASE C
AND TO CLOSE THE HEARING ON THE PLANS, SPECIFICATIONS, FORM
OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE

WHEREAS, on January 10, 2022, under Roll Call No. 22-0015, 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:

Des Moines Levee Alterations - Phase C, 082020006

The improvement includes earthen levee raise and widening, earthwork, excavation, clearing, revetment, steel sheet piling, gatewell raise, storm sewer pipe and repair, seepage relief pipe, swing gates, articulated concrete block, utility abandonment, rain garden, Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) pavement, light pole relocation, erosion control, seeding, other incidental items and miscellaneous associated work including cleanup; all in accordance with the contract documents, including Plan File No. 638-222/388, with improvements located along the Des Moines River from the confluence of the Raccoon River to S.E. 14th Street, in 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; and

WHEREAS, the Des Moines City Engineer, as the Engineer, recommends rejection of all bids because three bids were submitted with one of the bids not being read due to missing pages from the proposal. The apparent low bid was \$4,286,100 over the project estimate (30.18%), and the other remaining bid was \$13,831,131 over the estimate (97.4%). Engineering staff discussed with several contractors the reason there were not more bids, and it was determined that the majority of contractors who are qualified to perform this type of work have already committed to other project work for 2022. Therefore, the Des Moines City Engineer recommends rebidding the project in late summer 2022 when more contractors should be available to bid on the project, which should result in lower bid prices.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be and is hereby **CLOSED**.

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

- | | |
|--------------------------|-----------------------------|
| Synergy Contracting, LLC | Altoona, IA
Low Bid |
| C. J. Moyna & Sons, Inc. | Elkader, IA |
| NW Construction Inc. | Bozeman, MT
Bid not read |



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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 2/8/2022. Said bids and the attached tabulation of bids for said improvement be and are hereby received, and filed.

BE IT FURTHER RESOLVED: That all bids for said improvement, be and the same are hereby rejected because three bids were submitted with one of the bids not being read due to missing pages from the proposal. The apparent low bid was \$4,286,100 over the project estimate (30.18%), and the other remaining bid was \$13,831,131 over the estimate (97.4%). Engineering staff discussed with several contractors the reason there were not more bids, and it was determined that the majority of contractors who are qualified to perform this type of work have already committed to other project work for 2022. Therefore, the Des Moines City Engineer recommends rebidding the project in late summer 2022 when more contractors should be available to bid on the project, which should result in lower bid prices.

(City Council Communication Number 22-092 attached)

Moved by _____ to adopt. Second by _____

FORM APPROVED s/Kathleen Vanderpool
Kathleen Vanderpool
Deputy City Attorney

Funding Source: 2021-2022 CIP, Page 101, Flood Mitigation Improvements, SM087, Being: \$14,200,000 in Storm Water Utility Funds and Flood Mitigation Sales Tax

SLN pw

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
GATTO				
MANDELBAUM				
SHEUMAKER				
VOSS				
WESTERGAARD				
TOTAL				
MOTION CARRIED				APPROVED

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.

Mayor

City Clerk

62

TABULATED BY: N. Smith APPROVED BY P. Wagoner
CHECKED BY: C. Rouska

CONTRACTOR'S BID TABULATION
PROJECT: DES MOINES LEVEE ALTERATIONS - PHASE C

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING & GRUBBING	1 LS	\$50,000.00	\$50,000.00	\$35,000.00	\$35,000.00	\$310,000.00	\$310,000.00		
2	TOPSOIL, ON-SITE	8600 CY	\$18.00	\$154,800.00	\$12.00	\$103,200.00	\$22.00	\$189,200.00		
3	TOPSOIL, OFF-SITE (IMPORT)	2300 CY	\$25.00	\$57,500.00	\$24.00	\$55,200.00	\$44.00	\$101,200.00		
4	EXCAVATION, CLASS 10 (IMPERVIOUS LEVEE FILL FROM OFFSITE, IMPORT CONTRACTOR FURNISHED BORROW)	56600 CY	\$21.00	\$1,188,600.00	\$18.00	\$1,018,800.00	\$38.00	\$2,150,800.00		
5	EXCAVATION, CLASS 10 (PERVIOUS LEVEE FILL INSTALLED FROM EXISTING SUITABLE BORROW ONSITE)	35000 CY	\$16.00	\$560,000.00	\$18.00	\$630,000.00	\$19.00	\$665,000.00		
6	EXCAVATION, CLASS 10 (EXPLORATION TRENCH, EXPORT MATERIAL W/OUT DEBRIS OR CONTAMINATION OFF SITE)	9700 CY	\$16.00	\$155,200.00	\$28.00	\$271,600.00	\$21.00	\$203,700.00		
7	EXCAVATION, CLASS 10 (COMPENSATORY STORAGE AREA, EXPORT SUITABLE MATERIAL W/OUT DEBRIS OR CONTAMINATION OFF-SITE)	6630 CY	\$20.00	\$132,600.00	\$28.00	\$185,640.00	\$32.00	\$212,160.00		
8	EXPORT (UNACCEPTABLE DEBRIS, UNSUITABLE MATERIAL TO LANDFILL)	23000 TON	\$21.00	\$483,000.00	\$28.00	\$644,000.00	\$20.00	\$460,000.00		
9	EXPORT (CONTAMINATED LEAD, PETRO, ETC. UNSUITABLE MATERIAL TO LANDFILL)	4000 TON	\$25.00	\$100,000.00	\$35.00	\$140,000.00	\$24.00	\$96,000.00		
10	EXPLORATORY EXCAVATION (UTILITY POTHOLING)	88 HOURS	\$350.00	\$30,800.00	\$490.00	\$43,120.00	\$455.00	\$40,040.00		
11	SUBGRADE PREPARATION	1730 SY	\$8.00	\$13,840.00	\$3.60	\$6,228.00	\$10.00	\$17,300.00		
12	MODIFIED SUBBASE, 4" DEPTH	810 SY	\$15.00	\$12,150.00	\$8.40	\$6,804.00	\$10.00	\$8,100.00		
13	MODIFIED SUBBASE, 6" DEPTH	1920 SY	\$15.00	\$28,800.00	\$10.80	\$20,736.00	\$15.00	\$28,800.00		
14	TRENCH FOUNDATION	40 TON	\$30.00	\$1,200.00	\$56.00	\$2,240.00	\$44.00	\$1,760.00		
15	ENGINEERED BACKFILL	20 CY	\$30.00	\$600.00	\$63.00	\$1,260.00	\$60.00	\$1,200.00		
16	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL, CLASS II MATERIALS (AT UTILITY TRENCHES)	60 CY	\$30.00	\$1,800.00	\$63.00	\$3,780.00	\$52.00	\$3,120.00		
17	SANITARY SEWER ABANDONMENT, FILL AND PLUG (STA 186+25, 12")	100 LF	\$300.00	\$30,000.00	\$224.00	\$22,400.00	\$340.00	\$34,000.00		
18	SANITARY SIPHON SEWER ABANDONMENT, FILL AND PLUG 60 LF ON NORTH BANK (STA 196+45, 36")	1 LS	\$100,000.00	\$100,000.00	\$92,750.00	\$92,750.00	\$148,000.00	\$148,000.00		
19	SANITARY SIPHON SEWER ABANDONMENT, FILL AND PLUG 60LF ON SOUTH BANK (STA 534+00, 36")	1 LS	\$20,000.00	\$20,000.00	\$22,750.00	\$22,750.00	\$62,000.00	\$62,000.00		
20	SANITARY SEWER ABANDONMENT, FILL AND PLUG (STA 175+60, 5'x5' box culvert)	75 LF	\$3,000.00	\$225,000.00	\$490.00	\$36,750.00	\$2,300.00	\$172,500.00		
21	GAS ABANDONMENT, FILL AND PLUG (STA 176+00, 10")	110 LF	\$175.00	\$19,250.00	\$112.00	\$12,320.00	\$255.00	\$28,050.00		
22	GAS ABANDONMENT, FILL AND PLUG (STA 533+50, 8")	135 LF	\$175.00	\$23,625.00	\$112.00	\$15,120.00	\$255.00	\$34,425.00		
23	GAS ABANDONMENT, FILL AND PLUG (STA 533+50, 10")	135 LF	\$175.00	\$23,625.00	\$112.00	\$15,120.00	\$255.00	\$34,425.00		
24	WATER ABANDONMENT, FILL AND PLUG (STA 533+00, 175+50, 12")	250 LF	\$200.00	\$50,000.00	\$98.00	\$24,500.00	\$336.00	\$84,000.00		
25	WATER ABANDONMENT, FILL AND PLUG (STA 533+50, 12")	135 LF	\$200.00	\$27,000.00	\$98.00	\$13,230.00	\$336.00	\$45,360.00		
26	STORM SEWER ABANDONMENT, FILL AND PLUG (STA 201+75, 24")	175 LF	\$500.00	\$87,500.00	\$126.00	\$22,050.00	\$500.00	\$87,500.00		
27	STORM SEWER ABANDONMENT, FILL AND PLUG (STA 533+50, 18")	30 LF	\$250.00	\$7,500.00	\$378.00	\$11,340.00	\$252.00	\$7,560.00		
28	STORM SEWER GROUT LEAKING JOINT, 72" X 72" RCB BOX, STA 577+00	1 EACH	\$2,000.00	\$2,000.00	\$21,000.00	\$21,000.00	\$5,300.00	\$5,300.00		
29	STORM SEWER GATEWELL ABANDONMENT, FILL AND PLUG (GATEWELL #409)	1 EACH	\$3,000.00	\$3,000.00	\$28,000.00	\$28,000.00	\$6,000.00	\$6,000.00		
30	PIPE ABANDONMENT, FILL AND PLUG (VARIOUS TYPES_SIZES_)	20 CY	\$150.00	\$3,000.00	\$210.00	\$4,200.00	\$315.00	\$6,300.00		
31	STORM SEWER, TRENCHED (RCP CLASS 5, STA 518+25 AT CLAY AVENUE, 15")	622 LF	\$160.00	\$99,520.00	\$210.00	\$130,620.00	\$170.00	\$105,740.00		

Bid Not Read - Missing
Pages 13, 14 & 15 of
Proposal

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
32	STORM SEWER POINT REPAIR, RCP CLASS 3, 15"; STA. 518+25	1 LS	\$10,000.00	\$10,000.00	\$12,600.00	\$12,600.00	\$14,500.00	\$14,500.00		
33	STORM SEWER POINT REPAIR, RCP CLASS 3, 18"; STA. 518+25	1 LS	\$10,000.00	\$10,000.00	\$12,600.00	\$12,600.00	\$15,750.00	\$15,750.00		
34	PIPE CULVERT, TRENCHED, RCP, 12"	70 LF	\$400.00	\$28,000.00	\$196.00	\$13,720.00	\$280.00	\$19,600.00		
35	PIPE APRON, TYPE 2 CIRCULAR CONCRETE, 12"	4 EACH	\$600.00	\$2,400.00	\$7,000.00	\$28,000.00	\$2,350.00	\$9,400.00		
36	SPIN CAST PIPE REHABILITATION, LRCP SANITARY, 48" DIA STA. 533+00	220 LF	\$400.00	\$88,000.00	\$616.00	\$135,520.00	\$1,450.00	\$319,000.00		
37	RELOCATE HYDRANT ASSEMBLY; STA 175+75	1 LS	\$15,000.00	\$15,000.00	\$7,140.00	\$7,140.00	\$25,000.00	\$25,000.00		
38	RELOCATE YARD HYDRANT ASSEMBLIES; STA. 188+00 AT EAGLE VIEW APARTMENTS	1 LS	\$6,000.00	\$6,000.00	\$14,140.00	\$14,140.00	\$9,400.00	\$9,400.00		
39	MANHOLE, STORM SEWER (LEEVE SEEPAGE RELIEF), SUDAS SW-401, 48"	5 EACH	\$7,300.00	\$36,500.00	\$6,650.00	\$33,250.00	\$4,580.00	\$22,900.00		
40	MANHOLE, STORM SEWER (LEEVE SEEPAGE RELIEF), SUDAS SW-401, 60"	2 EACH	\$9,000.00	\$18,000.00	\$8,330.00	\$16,660.00	\$6,800.00	\$13,600.00		
41	MANHOLE, STORM SEWER, SUDAS SW-512 CATCH BASIN INLET	1 EACH	\$2,500.00	\$2,500.00	\$13,510.00	\$13,510.00	\$3,350.00	\$3,350.00		
42	MANHOLE, STORM SEWER, 96" DIA. SUDAS SW-401	1 EACH	\$10,000.00	\$10,000.00	\$34,930.00	\$34,930.00	\$20,500.00	\$20,500.00		
43	CONCRETE COLLARS AT MANHOLE-SEWER CONNECTION	2 EACH	\$2,000.00	\$4,000.00	\$4,900.00	\$9,800.00	\$2,500.00	\$5,000.00		
44	MANHOLE ADJUSTMENT, MINOR W/ REINFORCED CONCRETE DIAMOND PAVING PATCH	2 EACH	\$3,000.00	\$6,000.00	\$4,200.00	\$8,400.00	\$3,500.00	\$7,000.00		
45	CONNECT TO MANHOLE	12 EACH	\$2,500.00	\$30,000.00	\$4,200.00	\$50,400.00	\$3,400.00	\$40,800.00		
46	CURB AND GUTTER, 2' WIDE 6" STANDARD CURB	17 LF	\$120.00	\$2,040.00	\$140.00	\$2,380.00	\$120.00	\$2,040.00		
47	BEAM CURB, PCC, 6" HEIGHT	157 LF	\$110.00	\$17,270.00	\$140.00	\$21,980.00	\$100.00	\$15,700.00		
48	HMA PAVEMENT (CLAY AVENUE)	225 TON	\$125.00	\$28,125.00	\$148.40	\$33,390.00	\$108.00	\$24,300.00		
49	REMOVAL OF SIDEWALK	720 SY	\$12.00	\$8,640.00	\$14.00	\$10,080.00	\$22.00	\$15,840.00		
50	REMOVAL OF SHARED USE PATH (TRAIL)	10830 SY	\$12.00	\$129,960.00	\$14.00	\$151,620.00	\$23.00	\$249,090.00		
51	REMOVAL OF PAVEMENT, HMA BITUMINOUS SURFACING (CLAY AVENUE)	1000 SY	\$12.00	\$12,000.00	\$14.00	\$14,000.00	\$28.00	\$28,000.00		
52	REMOVAL OF DRIVEWAY, GRANULAR SURFACING	2190 SY	\$7.00	\$15,330.00	\$14.00	\$30,660.00	\$8.00	\$17,520.00		
53	REMOVAL OF DRIVEWAY, PCC	1680 SY	\$12.00	\$20,160.00	\$14.00	\$23,520.00	\$30.00	\$50,400.00		
54	SHARED USE PATH, HMA, 6 IN., STANDARD TRAFFIC SURFACE, 3/8", PG 58-28S	11780 SY	\$55.00	\$647,900.00	\$56.00	\$659,680.00	\$36.00	\$424,080.00		
55	TEMPORARY SHARED USE TRAIL	1000 SY	\$45.00	\$45,000.00	\$63.00	\$63,000.00	\$58.00	\$58,000.00		
56	SIDEWALK, PCC, 5"	315 SY	\$60.00	\$18,900.00	\$91.00	\$28,665.00	\$80.00	\$25,200.00		
57	DETECTABLE WARNING	185 SF	\$50.00	\$9,250.00	\$70.00	\$12,950.00	\$60.00	\$11,100.00		
58	DRIVEWAY, PCC, 6"	861 SY	\$75.00	\$64,575.00	\$105.00	\$90,405.00	\$68.00	\$58,548.00		
59	DRIVEWAY, PCC, 8"	551 SY	\$110.00	\$60,610.00	\$119.00	\$65,569.00	\$78.00	\$42,978.00		
60	DRIVEWAY, GRANULAR SURFACING, 6" (LEEVE ACCESS RAMPS)	400 SY	\$20.00	\$8,000.00	\$28.00	\$11,200.00	\$22.00	\$8,800.00		
61	DRIVEWAY, GRANULAR SURFACING, 12"	62 SY	\$40.00	\$2,480.00	\$35.00	\$2,170.00	\$40.00	\$2,480.00		
62	CURB & GUTTER REMOVAL	510 LF	\$13.00	\$6,630.00	\$21.00	\$10,710.00	\$18.00	\$9,180.00		
63	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	300 LF	\$10.00	\$3,000.00	\$21.00	\$6,300.00	\$15.00	\$4,500.00		
64	PAINTED SYMBOLS AND LEGENDS	32 EACH	\$200.00	\$6,400.00	\$210.00	\$6,720.00	\$150.00	\$4,800.00		
65	GROOVES CUT FOR SYMBOLS AND LEGENDS	32 EACH	\$125.00	\$4,000.00	\$245.00	\$7,840.00	\$175.00	\$5,600.00		
66	TEMPORARY TRAFFIC CONTROL	1 LS	\$100,000.00	\$100,000.00	\$122,500.00	\$122,500.00	\$180,000.00	\$180,000.00		
67	SPECIAL SIGNAGE	23 EACH	\$500.00	\$11,500.00	\$280.00	\$6,440.00	\$200.00	\$4,600.00		
68	FILTER SOCK, INSTALLATION, MAINTENANCE, AND REMOVAL	3000 LF	\$4.00	\$12,000.00	\$4.00	\$12,000.00	\$3.00	\$9,000.00		
69	TEMPORARY ROLLED EROSION CONTROL PRODUCT (RECP, TYPE 2 OR TYPE 3, 100% BIODEGRADABLE)	6000 SY	\$4.00	\$24,000.00	\$5.95	\$35,700.00	\$5.00	\$30,000.00		
70	TEMPORARY EARTH DIVERSION STRUCTURE, ALL TYPES, 18" HEIGHT	400 LF	\$35.00	\$14,000.00	\$49.00	\$19,600.00	\$16.00	\$6,400.00		
71	RIP RAP, CLASS B	9000 TON	\$70.00	\$630,000.00	\$77.00	\$693,000.00	\$94.00	\$846,000.00		
72	RIP RAP, CLASS E	24200 TON	\$70.00	\$1,694,000.00	\$77.00	\$1,863,400.00	\$92.00	\$2,226,400.00		
73	RIP RAP REMOVE	5500 TON	\$40.00	\$220,000.00	\$33.00	\$181,500.00	\$48.00	\$264,000.00		
74	SILT FENCE, INSTALLATION, MAINTENANCE, AND REMOVAL	13000 LF	\$3.00	\$39,000.00	\$4.00	\$52,000.00	\$2.00	\$26,000.00		
75	STABILIZED CONSTRUCTION ENTRANCE	1360 SY	\$40.00	\$54,400.00	\$56.00	\$76,160.00	\$28.00	\$38,080.00		
76	DUST CONTROL, WATER	150 MGAL	\$100.00	\$15,000.00	\$140.00	\$21,000.00	\$60.00	\$9,000.00		
77	INLET PROTECTION DEVICE, DROP-IN INTAKE PROTECTION	1 EACH	\$500.00	\$500.00	\$350.00	\$350.00	\$200.00	\$200.00		
78	INLET PROTECTION DEVICE, SURFACE-APPLIED INTAKE PROTECTION	4 EACH	\$500.00	\$2,000.00	\$350.00	\$1,400.00	\$100.00	\$400.00		
79	INLET PROTECTION DEVICE, MAINTENANCE	5 EACH	\$200.00	\$1,000.00	\$140.00	\$700.00	\$50.00	\$250.00		

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
80	TEMPORARY CHAIN LINK FENCE, 5' REMOVAL & REINSTALLATION OF EXISTING FENCE, CHAIN LINK, 6' HEIGHT	1200 LF	\$35.00	\$42,000.00	\$14.00	\$16,800.00	\$10.00	\$12,000.00		
81	REMOVAL OF EXISTING FENCE, CHAIN LINK, 4' HEIGHT	530 LF	\$50.00	\$26,500.00	\$42.00	\$22,260.00	\$40.00	\$21,200.00		
82	TEMPORARY FENCE, CONSTRUCTION, ORANGE WARNING 3'-5'	810 LF	\$8.00	\$6,480.00	\$4.20	\$3,402.00	\$5.00	\$4,050.00		
83	DEMOLITION WORK, REMOVAL OF RAILROAD BRIDGE ABUTMENT NEAR EAGLEVIEW LOFTS	4000 LF	\$5.00	\$20,000.00	\$7.00	\$28,000.00	\$3.00	\$12,000.00		
84	REMOVE AND RELOCATE EXISTING SIGN	1 LS	\$25,000.00	\$25,000.00	\$35,000.00	\$35,000.00	\$22,000.00	\$22,000.00		
85	REMOVE AND RELOCATE EXISTING SIGN	5 EACH	\$500.00	\$2,500.00	\$560.00	\$2,800.00	\$1,500.00	\$7,500.00		
86	REMOVE SALVAGE AND STOCKPILE GARDEN PLANTERS, HYDRANTS & IRRIGATION	1 LS	\$15,000.00	\$15,000.00	\$28,000.00	\$28,000.00	\$8,000.00	\$8,000.00		
87	REMOVE GUARD RAIL AND SIGN	20 LF	\$100.00	\$2,000.00	\$105.00	\$2,100.00	\$40.00	\$800.00		
88	REMOVE AND RELOCATE CONCRETE PAD	3 EACH	\$500.00	\$1,500.00	\$1,400.00	\$4,200.00	\$1,200.00	\$3,600.00		
89	REMOVE AND DISPOSE DEBRIS (FROM PIPES AND GATEWELLS) REMOVE AND DISPOSE DEBRIS (CONTAMINATED FROM PIPES AND GATEWELLS)	110 TON	\$80.00	\$8,800.00	\$112.00	\$12,320.00	\$180.00	\$19,800.00		
90	REMOVE AND DISPOSE MISC DEBRIS	55 TON	\$90.00	\$4,950.00	\$126.00	\$6,930.00	\$220.00	\$12,100.00		
91	CONSTRUCTION SURVEY AND AS-BUILT SURVEY	80 TON	\$80.00	\$6,400.00	\$112.00	\$8,960.00	\$280.00	\$22,400.00		
92	MOBILIZATION	1 LS	\$75,000.00	\$75,000.00	\$60,500.00	\$60,500.00	\$490,000.00	\$490,000.00		
93	CONCRETE WASHOUT	1 LS	\$993,685.00	\$993,685.00	\$2,143,000.00	\$2,143,000.00	\$5,900,000.00	\$5,900,000.00		
94	TREE PROTECTION FENCE	1 LS	\$2,500.00	\$2,500.00	\$7,000.00	\$7,000.00	\$20,000.00	\$20,000.00		
95	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	1410 LF	\$5.00	\$7,050.00	\$7.00	\$9,870.00	\$5.00	\$7,050.00		
96	LEVEE SEEPAGE RELIEF PIPE, DIRECTIONALLY DRILLED, PE, DR18, 10" (INCLUDES TRENCH AND FILL, COMPLETE)	1 LS	\$35,000.00	\$35,000.00	\$17,500.00	\$17,500.00	\$24,000.00	\$24,000.00		
97	LEVEE SEEPAGE RELIEF PIPE, TRENCHED, CPEP, 15" (INCLUDES TRENCH AND FILL, COMPLETE)	224 LF	\$250.00	\$56,000.00	\$224.00	\$50,176.00	\$1,170.00	\$262,080.00		
98	LEVEE SEEPAGE RELIEF PIPE, TRENCHED, CPEP, 12" (INCLUDES TRENCH AND FILL, COMPLETE)	6 LF	\$300.00	\$1,800.00	\$511.00	\$3,066.00	\$670.00	\$4,020.00		
99	LEVEE SEEPAGE RELIEF PIPE, TRENCHED, CPEP SLOTTED, 10" (INCLUDES TRENCH AND FILL, COMPLETE)	1283 LF	\$235.00	\$301,505.00	\$322.00	\$413,126.00	\$670.00	\$859,610.00		
100	LEVEE SEEPAGE RELIEF PIPE, TRENCHED, DIP, 10" (INCLUDES TRENCH AND FILL, COMPLETE)	5891 LF	\$215.00	\$1,266,565.00	\$287.00	\$1,690,717.00	\$670.00	\$3,946,970.00		
101	FLOATING BALL CHECK VALVE	6 LF	\$300.00	\$1,800.00	\$560.00	\$3,360.00	\$720.00	\$4,320.00		
102	MANHOLE, LEVEE SEEPAGE RELIEF, PVC, 24" DIAMETER	10 EACH	\$8,000.00	\$80,000.00	\$8,400.00	\$84,000.00	\$16,000.00	\$160,000.00		
103	FLOOD CONTINGENCY PLAN	31 EACH	\$3,300.00	\$102,300.00	\$7,560.00	\$234,360.00	\$5,000.00	\$155,000.00		
104	COFFER AND DEWATER, DEWATERING, CONTROL OF WATER	1 LS	\$150,000.00	\$150,000.00	\$180,000.00	\$180,000.00	\$240,000.00	\$240,000.00		
105	STEEL SHEET PILING	1 LS	\$200,000.00	\$200,000.00	\$240,000.00	\$240,000.00	\$1,300,000.00	\$1,300,000.00		
106	GATEWELL #286 RAISE	40900 SF	\$35.00	\$1,431,500.00	\$66.00	\$2,699,400.00	\$40.00	\$1,636,000.00		
107	GATEWELL #290 RAISE	1 LS	\$15,000.00	\$15,000.00	\$47,250.00	\$47,250.00	\$25,000.00	\$25,000.00		
108	GATEWELL #305 RAISE	1 LS	\$30,000.00	\$30,000.00	\$120,400.00	\$120,400.00	\$125,000.00	\$125,000.00		
109	GATEWELL #340, #340A & #340B RAISE	1 LS	\$20,000.00	\$20,000.00	\$14,700.00	\$14,700.00	\$35,000.00	\$35,000.00		
110	GATEWELL #410A & #410B RAISE	1 LS	\$200,000.00	\$200,000.00	\$122,500.00	\$122,500.00	\$245,000.00	\$245,000.00		
111	GATEWELL #415 RAISE	1 LS	\$30,000.00	\$30,000.00	\$96,600.00	\$96,600.00	\$75,000.00	\$75,000.00		
112	ROAD SIGNAGE	1 LS	\$30,000.00	\$30,000.00	\$202,300.00	\$202,300.00	\$135,000.00	\$135,000.00		
113	SWING GATE	40 EACH	\$500.00	\$20,000.00	\$455.00	\$18,200.00	\$325.00	\$13,000.00		
114	BENCH (RECREATIONAL)	5 EACH	\$3,500.00	\$17,500.00	\$5,600.00	\$28,000.00	\$4,600.00	\$23,000.00		
115	GRANULAR FILTER BLANKET	5 EACH	\$1,000.00	\$5,000.00	\$1,750.00	\$8,750.00	\$3,000.00	\$15,000.00		
116	REMOVAL GRANULAR FILTER BLANKET	5000 TON	\$45.00	\$225,000.00	\$54.00	\$270,000.00	\$55.00	\$275,000.00		
117	PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) WATERMAIN PROTECTION MEASURES	2000 TON	\$30.00	\$60,000.00	\$21.00	\$42,000.00	\$30.00	\$60,000.00		
118	PROJECT SIGN	1 LS	\$20,000.00	\$20,000.00	\$70,000.00	\$70,000.00	\$230,000.00	\$230,000.00		
119	PROJECT SIGN (LEVEE RIGHT-OF-WAY SIGNS)	6 EACH	\$500.00	\$3,000.00	\$1,750.00	\$10,500.00	\$1,250.00	\$7,500.00		
120	FINE FILTER AGGREGATE (TOE FILTER AT 48" PCCP)	20 EACH	\$500.00	\$10,000.00	\$245.00	\$4,900.00	\$175.00	\$3,500.00		
121	FINE FILTER AGGREGATE (BUTTRESS ATOP SRT)	150 CY	\$110.00	\$16,500.00	\$112.00	\$16,800.00	\$110.00	\$16,500.00		
122	ARTICULATED CONCRETE BLOCK (LEVEE RAMP #9, #10)	2000 CY	\$110.00	\$220,000.00	\$112.00	\$224,000.00	\$110.00	\$220,000.00		
123	GRANULAR CLEAN SAND (RAIN GARDEN MANUFACTURED SAND INFILTRATION TRENCH)	5830 SF	\$17.00	\$99,110.00	\$35.00	\$204,050.00	\$26.00	\$151,580.00		
124	PLANTING SOIL (RAIN GARDEN MANUFACTURED MEDIA, 75% SAND, 25% COMPOST)	300 CY	\$30.00	\$9,000.00	\$84.00	\$25,200.00	\$140.00	\$42,000.00		
125		425 CY	\$25.00	\$10,625.00	\$90.00	\$38,250.00	\$100.00	\$42,500.00		

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
126	SEEDING (RAIN GARDEN SEED MIX)	0.2 ACRE	\$5,000.00	\$1,000.00	\$9,000.00	\$1,800.00	\$5,000.00	\$1,000.00		
127	PLUG PLANTING (RAIN GARDEN)	500 EA	\$50.00	\$25,000.00	\$66.00	\$33,000.00	\$10.00	\$5,000.00		
128	SEEDING, FERTILIZING, AND MULCHING, TYPE 1	6.1 ACRE	\$5,500.00	\$33,550.00	\$4,560.00	\$27,816.00	\$4,350.00	\$26,535.00		
129	HYDROSEEDING (LEVEE TURF SEED MIX)	21.9 ACRE	\$6,000.00	\$131,400.00	\$8,400.00	\$183,960.00	\$7,500.00	\$164,250.00		
130	HYDROSEEDING (WETLAND SEED MIX)	1 ACRE	\$6,000.00	\$6,000.00	\$6,600.00	\$6,600.00	\$5,000.00	\$5,000.00		
131	HYDROSEEDING (HIGH PERFORMANCE TURF SEED MIX)	5.2 ACRE	\$3,500.00	\$18,200.00	\$4,800.00	\$24,960.00	\$4,700.00	\$24,440.00		
132	SEEDING (NATIVE UPLAND SEED MIX)	0.4 ACRE	\$3,500.00	\$1,400.00	\$5,400.00	\$2,160.00	\$5,000.00	\$2,000.00		
133	HYDROMULCHING (TEMPORARY)	30 ACRE	\$1,500.00	\$45,000.00	\$2,400.00	\$72,000.00	\$2,000.00	\$60,000.00		
134	MAINTENANCE AND ESTABLISHMENT OF SEED AND VEGETATION GROUT AND PATCH REPAIR 72-INCH X 48" BLIND TIE STORM SEWER PIPE (STA 206+00)	1 LS	\$20,000.00	\$20,000.00	\$24,000.00	\$24,000.00	\$110,000.00	\$110,000.00		
135	CAST-IN-PLACE CONCRETE SEAT WALL (STA. 532+50L)	1 LS	\$20,000.00	\$20,000.00	\$28,000.00	\$28,000.00	\$20,500.00	\$20,500.00		
136	PVC ELECTRICAL CONDUIT (2" SCH40 PVC, STA. 536+20L)	50 LF	\$300.00	\$15,000.00	\$420.00	\$21,000.00	\$610.00	\$30,500.00		
137	RELOCATE LIGHT POLE AND RECONSTRUCT BASE	60 LF	\$15.00	\$900.00	\$35.00	\$2,100.00	\$25.00	\$1,500.00		
138		9 EACH	\$10,000.00	\$90,000.00	\$13,160.00	\$118,440.00	\$12,500.00	\$112,500.00		
TOTAL CONSTRUCTION COST				\$14,200,000.00		\$18,486,100.00		\$28,031,131.00		\$0.00
PERCENT OF ENGINEER'S ESTIMATE						+30.18%		+97.40%		-100.00%
						Low				