

Agenda Item Number

DATE March 21, 2022

## PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON DES MOINES LEVEE ALTERATIONS - PHASE B; RECEIVE AND FILE BIDS

WHEREAS, on January 24, 2022, under Roll Call No. 22-0085, 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 B, 082020004

The improvement includes earthen levee raise and widening, earthwork, clearing, excavation, cast-in-place floodwall, cast-in-place floodwall raises, cast-in-place retaining wall, gatewells, gatewell structural modifications, stoplog structure and stoplogs, revetment, manholes, storm sewer pipe and repair, articulated concrete block, utility abandonment and removal, pavement removal, Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) pavement, lighting removal and installation, fencing, erosion control, seeding, other incidental items and miscellaneous associated work including cleanup; all in accordance with the contract documents, including Plan File No. 639-113/259, with improvements located along the Raccoon River from the confluence of the Des Moines River to Martin Luther King Jr. Parkway, 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.

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, are hereby approved.

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

Peterson Contractors, Inc., Reinbeck, IA Low Bid S. M. Hentges & Sons Inc., Jordan, MN Synergy Contracting, LLC, Altoona, IA

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 February 22, 2022. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.



Agenda Item Number

DATE March 21, 2022

(City Council Communication Number 22.134 attached)

Moved by \_\_\_\_\_ to adopt. Second by \_\_\_\_\_

FORM APPROVED:

s/Kathleen Vanderpool

s/Nickolas J. Schaul

Kathleen Vanderpool Deputy City Attorney

Nickolas J. Schaul Director of Finance

FUNDS AVAILABLE

Funding Source: 2022-23 CIP, Page 105, Flood Mitigation Improvements, SM087, Being: Storm Water Utility Funds and Flood Mitigation Sales Tax

COUNCIL ACTION COWNIE BOESEN GATTO	YEAS	NAYS	PASS	ABSENT	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.
MANDELBAUM SHEUMAKER VOSS WESTERGAARD					IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.
TOTAL MOTION CARRIED				APPROVED	City Clerk

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	MENT OF ENGINEERING	Activity	ID 08-2020-004							
CITY OF	DES MOINES, IOWA	Bid	Date: 2/22/2022	1		1		1		
TABULA	ATED BY: N. Smith APPROVED BY P. Wagen				Peterson Cor Reinbe		S.M. Hentges Jordan		Synergy Contra Des Moin	
					BID SEC		BID SEC	URITY	BID SEC	URITY
	ACTOR'S BID TABULATION CT: DES MOINES LEVEE ALTERATIONS - PHASE B				10% Bi		10% Bid		10% Bid	
-	ESTIMATE		Television in the state of the		BID P	RICE	BID PI	RICE	BID PF	RICE
									UNIT	
			UNIT	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	\$13,500.00	\$45,900.00	\$13,600.00	\$46,240.00	\$44,800.00	\$152,320.00
1	CLEARING AND GRUBBING	3.4 AC 14670 CY	\$11,500.00 \$18.00	\$39,100.00 \$264,060.00	\$7.00	\$102,690.00	\$26.50	\$388,755.00	\$12.00	\$176,040.00
2	TOPSOIL, ON-SITE EXCAVATION, CLASS 10	39750 CY	\$21.00	\$834,750.00	\$15.25	\$606,187.50	\$24.50	\$973,875.00	\$24.00	\$954,000.00
3 4	REMOVAL OF STRUCTURE, CONCRETE BARRIER	4 EA	\$500.00	\$2,000.00	\$125.00	\$500.00	\$75.00	\$300.00	\$700.00	\$2,800.00
5	REMOVAL OF STRUCTURE, FLAPGATE, 4"	1 EA	\$500.00	\$500.00	\$450.00	\$450.00	\$95.00	\$95.00	\$700.00	\$700.00
6	REMOVAL OF STRUCTURE, FLAPGATE, 10"	1 EA	\$600.00	\$600.00	\$750.00	\$750.00	\$105.00	\$105.00	\$700.00	\$700.00
7	REMOVAL OF STRUCTURE, FLAPGATE, 12"	3 EA	\$600.00	\$1,800.00	\$750.00	\$2,250.00	\$110.00	\$330.00	\$700.00	\$2,100.00
8	REMOVAL OF STRUCTURE, FLAPGATE, 18"	3 EA	\$700.00	\$2,100.00	\$950.00	\$2,850.00	\$115.00	\$345.00	\$700.00	\$2,100.00
9	REMOVAL OF STRUCTURE, FLAPGATE, 24"	2 EA	\$800.00	\$1,600.00	\$950.00	\$1,900.00	\$130.00	\$260.00	\$1,400.00	\$2,800.00 \$1,400.00
10	REMOVAL OF STRUCTURE, FLAPGATE, 30"	1 EA	\$900.00	\$900.00	\$1,200.00	\$1,200.00	\$145.00	\$145.00 \$210.00	\$1,400.00 \$1,400.00	\$1,400.00
11	REMOVAL OF STRUCTURE, FLAPGATE, 42"	1 EA	\$1,000.00	\$1,000.00	\$1,400.00	\$1,400.00	\$210.00 \$150.00	\$300.00	\$1,400.00	\$2,800.00
12	REMOVAL OF STRUCTURE, APRON, 24"	2 EA	\$400.00	\$800.00	\$650.00 \$265.00	\$1,300.00 \$82,945.00	\$45.00	\$14,085.00	\$231.00	\$72,303.00
13	REMOVAL OF STRUCTURE, FLOODWALL, DM-III	313 LF 28 LF	\$210.00 \$80.00	\$65,730.00 \$2,240.00	\$18.00	\$504.00	\$17.00	\$476.00	\$140.00	\$3,920.00
14	REMOVAL OF STRUCTURE, GUARDRAIL	28 LF 1 EA	\$20,000.00	\$20,000.00	\$25,000.00	\$25,000.00	\$14,000.00	\$14,000.00	\$31,500.00	\$31,500.00
15	REMOVAL OF STRUCTURE, GATEWELL 131 REMOVAL OF STRUCTURE, GATEWELL 186	1 EA	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00	\$6,000.00	\$6,000.00	\$49,000.00	\$49,000.00
16 17	REMOVAL OF STRUCTURE, GATEWELL 100 REMOVAL OF CONCRETE WALL AND DRAIN	1 EA	\$25,000.00	\$25,000.00	and an and an an an an and	\$15,000.00	\$4,100.00	\$4,100.00	\$35,000.00	\$35,000.00
18	TREE PROTECTION FENCE, 48" HEIGHT	7150 LF	\$4.00	\$28,600.00	\$3.75	\$26,812.50	\$6.00	\$42,900.00	\$7.00	\$50,050.00
10	SPECIAL PIPE EMBEDMENT	2074 LF	\$17.00	\$35,258.00	\$20.00	\$41,480.00	\$66.00	\$136,884.00	\$91.00	\$188,734.00
20	REMOVAL OF SANITARY SEWER, RCP, 36"	30 LF	\$60.00	\$1,800.00	\$50.00	\$1,500.00	\$190.00	\$5,700.00	\$700.00	\$21,000.00
21	STORM SEWER TRENCHED, RCP, CLASS III, 15"	386 LF	\$115.00	\$44,390.00	\$140.00	\$54,040.00	\$91.00	\$35,126.00	\$91.00	\$35,126.00
22	STORM SEWER TRENCHED, RCP, CLASS III, 18"	50 LF	\$125.00	\$6,250.00	\$150.00	\$7,500.00	\$105.00	\$5,250.00	\$161.00	\$8,050.00
23	STORM SEWER TRENCHED, RCP, CLASS III, 24"	1491 LF	\$125.00	\$186,375.00		\$268,380.00	\$107.00	\$159,537.00	\$119.00 \$231.00	\$177,429.00 \$9,471.00
24	STORM SEWER TRENCHED, RCP, CLASS III, 30"	41 LF	\$225.00	\$9,225.00		\$10,250.00	\$186.00	\$7,626.00 \$1,769.00	\$210.00	\$6,090.00
25	STORM SEWER TRENCHED, PVC, SDR 23.5, 4"	29 LF	\$60.00	\$1,740.00		\$2,755.00 \$6,075.00	\$61.00 \$160.00	\$4,320.00	\$511.00	\$13,797.00
26	STORM SEWER TRENCHED, DIP, CLASS 350, 12"	27 LF 50 LF	\$250.00 \$500.00	\$6,750.00 \$25,000.00		\$75,000.00	\$1,400.00	\$70,000.00	\$1,715.00	\$85,750.00
27	STORM SEWER TRENCHED, DIP, CLASS 350, 36"	188 LF	\$30.00	\$5,640.00	Part Participation and the second	\$10,340.00	\$63.00	\$11,844.00	\$112.00	\$21,056.00
28	REMOVAL OF STORM SEWER, RCP, 12" REMOVAL OF STORM SEWER, RCP, 18"	65 LF	\$35.00	\$2,275.00		\$5,200.00	\$81.00	\$5,265.00	\$161.00	\$10,465.00
29 30	REMOVAL OF STORM SEWER, RCP, 24"	16 LF	\$70.00	\$1,120.00	and a surround the	\$2,160.00	\$160.00	\$2,560.00	\$329.00	\$5,264.00
31	REMOVAL OF STORM SEWER, RCP, 72"	21 LF	\$200.00	\$4,200.00		\$5,250.00	\$493.00	\$10,353.00	\$280.00	\$5,880.00
32	REMOVAL OF STORM SEWER, CMP, 10"	65 LF	\$30.00	\$1,950.00	\$30.00	\$1,950.00	\$75.00	\$4,875.00	\$105.00	\$6,825.00
33	REMOVAL OF STORM SEWER, CMP, 30"	65 LF	\$40.00	\$2,600.00		\$2,925.00	\$95.00	\$6,175.00	\$105.00	\$6,825.00
34	REMOVAL OF STORM SEWER FORCE MAIN	1 LS	\$6,000.00	\$6,000.00		\$20,000.00	\$20,000.00	\$20,000.00	\$31,500.00	\$31,500.00
35	FLAPGATE, 18"	1 EA	\$5,000.00	\$5,000.00		\$5,000.00	\$2,300.00	\$2,300.00	\$14,700.00	\$14,700.00 \$31,430.00
36	FLAPGATE, 24"	2 EA	\$6,000.00	\$12,000.00		\$12,000.00	\$2,450.00	\$4,900.00 \$3,400.00	\$15,715.00 \$17,360.00	\$17,360.00
37	FLAPGATE, 30"	1 EA	\$7,500.00	\$7,500.00		\$7,500.00 \$9,500.00	\$3,400.00 \$20,800.00	\$20,800.00	\$9,100.00	\$9,100.00
38	HEADWALL, 18"	1 EA	\$3,000.00	\$3,000.00 \$6,000.00		\$25,000.00	\$21,100.00	\$42,200.00		\$20,300.00
39	HEADWALL, 24"	2 EA	\$3,000.00 \$3,500.00	\$3,500.00		\$15,500.00	\$21,500.00	\$21,500.00	\$10,850.00	\$10,850.00
40	HEADWALL, 30"	1 EA 1 EA	\$3,500.00 \$3,000.00	\$3,000.00		\$5,000.00	\$3,200.00	\$3,200.00	\$8,750.00	\$8,750.00
41	PIPE APRON, RCP, CLASS III, 24" BYPASS PUMPING	1 LS	\$20,000.00	\$20,000.00	and the second s	\$10,000.00	\$500,000.00	\$500,000.00	\$84,000.00	\$84,000.00
42	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 24"	1 EA	\$5,000.00	\$5,000.00		\$5,500.00	\$3,900.00	\$3,900.00	\$18,900.00	\$18,900.00
43 44	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 24 SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 36"	1 EA	\$5,000.00	\$5,000.00	and the second sec	\$11,500.00	\$4,400.00	\$4,400.00	\$18,900.00	\$18,900.00
44 45	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 72"	1 EA	\$10,000.00	\$10,000.00		\$12,500.00	\$5,500.00	\$5,500.00	\$17,500.00	\$17,500.00
46	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 24"	16 LF	\$175.00	\$2,800.00	and a second second second	\$12,800.00	\$510.00	\$8,160.00	\$1,064.00	\$17,024.00
47	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 36"	30 LF	\$250.00	\$7,500.00		\$30,000.00	\$730.00	\$21,900.00	\$728.00	\$21,840.00
48	SPOT REPAIRS BY PIPE REPLACEMENT, RCP, CLASS III, 72"	16 LF	\$600.00	\$9,600.00		\$24,000.00	\$1,485.00	\$23,760.00	\$1,939.00	\$31,024.00
49	STORM SEWER ABANDONMENT, FILL AND PLUG, CIP, 4"	100 LF	\$150.00	\$15,000.00	\$70.00	\$7,000.00	\$96.00	\$9,600.00	\$112.00	\$11,200.00

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						LINUT		UNIT		UNIT	
				UNIT		UNIT		PRICE	AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION		QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT		\$9,724.00	\$217.00	\$11,284.00
50	STORM SEWER ABANDONMENT, FILL AND PI		52 LF	\$200.00	\$10,400.00	\$130.00 \$60.00	\$6,760.00 \$3,900.00	\$187.00 \$177.00	\$11,505.00	\$182.00	\$11,830.00
51	STORM SEWER ABANDONMENT, FILL AND PI		65 LF	\$200.00	\$13,000.00 \$42,500.00	\$65.00	\$11,050.00	\$159.00	\$27,030.00	\$154.00	\$26,180.00
52	STORM SEWER ABANDONMENT, FILL AND PI		170 LF	\$250.00	\$40,750.00	\$05.00 \$70.00	\$11,410.00	\$328.00	\$53,464.00	\$168.00	\$27,384.00
53	STORM SEWER ABANDONMENT, FILL AND P		163 LF	\$250.00 \$200.00	\$14,000.00	\$60.00	\$4,200.00	\$200.00	\$14,000.00	\$175.00	\$12,250.00
54	STORM SEWER ABANDONMENT, FILL AND PL		70 LF 173 LF	\$200.00	\$38,925.00	\$65.00	\$11,245.00	\$185.00	\$32,005.00	\$147.00	\$25,431.00
55	SANITARY SEWER ABANDONMENT, FILL AND		173 LF 188 LF	\$400.00	\$75,200.00	\$150.00	\$28,200.00	\$325.00	\$61,100.00	\$455.00	\$85,540.00
56	SANITARY SEWER ABANDONMENT, FILL AND	J PLUG, RUP, 42	100 LF	φ <del>4</del> 00.00	\$70,200.00	φ100.00	420,200.00				
57	STORM SEWER PIPE, CLASS 350 DI PIPE SPO	OOL, PE x PE, 8" DIA.	38 LF	\$260.00	\$9,880.00	\$300.00	\$11,400.00	\$190.00	\$7,220.00	\$357.00	\$13,566.00
58	STORM SEWER PIPE, CLASS 53 DI PIPE SPO		3 LF	\$300.00	\$900.00	\$400.00	\$1,200.00	\$1,600.00	\$4,800.00	\$2,170.00	\$6,510.00
59	STORM SEWER PIPE, CLASS 53 DI PIPE SPO		7 LF	\$260.00	\$1,820.00	\$300.00	\$2,100.00	\$1,800.00	\$12,600.00	\$1,365.00	\$9,555.00
60	VALVE, PLUG, FL, 4" DIA.		1 EA	\$1,500.00	\$1,500.00	\$ <b>4</b> ,000.00	\$4,000.00	\$2,100.00	\$2,100.00	\$2,450.00	\$2,450.00
61	VALVE, PLUG, FL, 8" DIA.		3 EA	\$3,000.00	\$9,000.00	\$4,500.00	\$13,500.00	\$2,700.00	\$8,100.00	\$3,255.00	\$9,765.00
62	VALVE, AIR/VACUUM, FL, 4" DIA.		1 EA	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$2,800.00	\$2,800.00	\$4,655.00	\$4,655.00
63	VALVE, AIR/VACUUM, FL, 8" DIA.		3 EA	\$15,000.00	\$45,000.00	\$6,000.00	\$18,000.00	\$4,600.00	\$13,800.00	\$5,810.00	\$17,430.00
64	FITTING, 22.5° BEND, MJ, 8" DIA.		2 EA	\$1,100.00	\$2,200.00	\$1,500.00	\$3,000.00	\$840.00	\$1,680.00	\$910.00	\$1,820.00
65	FITTING, 22.5° BEND, MJ, 36" DIA.		6 EA	\$22,000.00	\$132,000.00	\$20,000.00	\$120,000.00	\$6,150.00	\$36,900.00	\$5,950.00	\$35,700.00
66	FITTING, 90° BEND, MJ, 8" DIA.		4 EA	\$1,250.00	\$5,000.00	\$1,500.00	\$6,000.00	\$1,825.00	\$7,300.00	\$980.00	\$3,920.00
67	FITTING, 90° BEND, MJ, 36" DIA.		12 EA	\$25,000.00	\$300,000.00	\$22,000.00	\$264,000.00	\$8,750.00	\$105,000.00	\$8,540.00	\$102,480.00
68	FITTING, RESTRAINED JOINT ADAPTER, 4" D	DIA.	2 EA	\$125.00	\$250.00	\$30.00	\$60.00	\$158.00	\$316.00	\$735.00	\$1,470.00
69	FITTING, RESTRAINED JOINT ADAPTER, 8" D	DIA.	13 EA	\$250.00	\$3,250.00	\$60.00	\$780.00	\$178.00	\$2,314.00	\$1,120.00	\$14,560.00
70	FITTING, RESTRAINED JOINT ADAPTER, 36"	DIA.	12 EA	\$3,500.00	\$42,000.00	\$1,500.00	\$18,000.00	\$1,600.00	\$19,200.00	\$3,115.00	\$37,380.00 \$1,960.00
71	FITTING, BOLT THROUGH MJ RESTRAINED A		2 EA	\$600.00	\$1,200.00	\$1,200.00	\$2,400.00	\$1,050.00	\$2,100.00 \$69.750.00	\$980.00 \$3,955.00	\$59,325.00
72	FITTING, BOLT THROUGH MJ RESTRAINED A	ADAPTER, 36" DIA.	15 EA	\$5,000.00	\$75,000.00	\$5,000.00	\$75,000.00	\$4,650.00	\$1,550.00	\$980.00	\$980.00
73	FITTING, TEE, MJ, 8" x 4" x 8"		1 EA	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00	\$1,550.00	\$19,650.00	\$7,560.00	\$22,680.00
74	FITTING, TEE, MJ, 36" x 8" x 36"		3 EA	\$28,000.00	\$84,000.00	\$25,000.00	\$75,000.00	\$6,550.00 \$5,300.00	\$68,900.00	\$6,825.00	\$88,725.00
75	MANHOLE, SW-401, 48" DIA.		13 EA	\$7,000.00	\$91,000.00	\$9,000.00	\$117,000.00 \$24,000.00	\$6,850.00	\$13,700.00	\$9,765.00	\$19,530.00
76	MANHOLE, SW-401, 60" DIA.		2 EA	\$9,000.00	\$18,000.00	\$12,000.00 \$30,000.00	\$30,000.00	\$22,600.00	\$22,600.00	\$76,790.00	\$76,790.00
77	MANHOLE, SW-404, 4.0' X 6.0'		1 EA	\$15,000.00	\$15,000.00 \$20,000.00	\$40,000.00	\$40,000.00	\$67,190.00	\$67,190.00	\$78,190.00	\$78,190.00
78	MANHOLE, SW-404, 4.5' X 9.5'		1 EA 1 EA	\$20,000.00 \$4,500.00	\$4,500.00	\$10,000.00	\$10,000.00	\$3,200.00	\$3,200.00	\$4,480.00	\$4,480.00
79	INTAKE, SW-512, 18" DIA.		1 EA	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$700.00	\$700.00	\$2,800.00	\$2,800.00
80	INTAKE ADJUSTMENT, MINOR		2 EA	\$1,000.00	\$2,000.00	\$2,000.00	\$4,000.00	\$500.00	\$1,000.00	\$1,400.00	\$2,800.00
81	REMOVE INTAKE, 12" DIA.		2 EA	\$1,200.00	\$2,400.00	\$2,500.00	\$5,000.00	\$500.00	\$1,000.00	\$1,400.00	\$2,800.00
82	REMOVE INTAKE, 18" DIA.		1 EA	\$100,000.00	\$100,000.00	\$135,000.00	\$135,000.00	\$150,000.00	\$150,000.00	\$142,800.00	\$142,800.00
83 84	GATEWELL 131 GATEWELL 133A		1 EA	\$85,000.00	\$85,000.00	\$125,000.00	\$125,000.00	\$150,000.00	\$150,000.00	\$142,800.00	\$142,800.00
84 85	GATEWELL 182		1 EA	\$65,000.00	\$65,000.00	\$95,000.00	\$95,000.00	\$70,000.00	\$70,000.00	\$147,000.00	\$147,000.00
86	GATEWELL 182		1 EA	\$110,000.00	\$110,000.00	\$192,000.00	\$192,000.00	\$300,000.00	\$300,000.00	\$187,082.00	\$187,082.00
87	GATEWELL 185 GATEWELL 185C, GATEWELL STRUCTURE F	RAISE	1 EA	\$18,000.00	\$18,000.00	\$25,000.00	\$25,000.00	\$40,000.00	\$40,000.00	\$33,180.00	\$33,180.00
88	CAST-IN-PLACE FLOODWALL, STA. 512+00 T		462 CY	\$1,400.00	\$646,800.00	\$1,020.00	\$471,240.00	\$2,500.00	\$1,155,000.00	\$1,127.00	\$520,674.00
00	CAST-IN-PLACE FLOODWALL RAISE SEGME										
89	STA. 440+14		7 CY	\$6,000.00	\$42,000.00	\$6,615.00	\$46,305.00	\$5,600.00	\$39,200.00	\$1,400.00	\$9,800.00
	CAST-IN-PLACE FLOODWALL RAISE SEGME	NT STA. 440+14 TO							000 500 00	C4 400 00	FR 400 00
90	STA. 444+39		6 CY	\$6,000.00	\$36,000.00	\$8,015.00	\$48,090.00	\$3,750.00	\$22,500.00	\$1,400.00	\$8,400.00 \$26,600.00
91	ABANDONMENT OF STRUCTURE, GATEWEL	_L 181	1 EA	\$25,000.00	\$25,000.00		\$25,000.00	\$10,150.00	\$10,150.00	\$26,600.00 \$27,300.00	\$27,300.00
92	ABANDONMENT OF STRUCTURE, GATEWEL		1 EA	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$10,150.00	\$10,150.00	\$28,700.00	\$28,700.00
93	ABANDONMENT OF STRUCTURE, GATEWEL	_L 275	1 EA	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$13,000.00	\$13,000.00	\$14,000.00	\$14,000.00
94	ABANDONMENT OF STRUCTURE, SANITARY	Y SEWER MH	1 EA	\$7,500.00	\$7,500.00		\$8,000.00	\$10,150.00	\$10,150.00	\$177,100.00	\$177,100.00
95	STOPLOG STRUCTURE AND STOPLOGS		1 EA	\$95,000.00		\$195,000.00	\$195,000.00	\$250,000.00 \$46.00	\$250,000.00 \$17,204.00	\$77.00	\$28,798.00
96	CURB AND GUTTER, 2' WIDE, 6" THICK	902	374 LF	\$50.00	\$18,700.00	\$46.00	\$17,204.00	\$40.00	\$1,463.00	\$91.00	\$1,729.00
97	DROP CURB AND GUTTER, 2' WIDE, 6" THIC	ĸ	19 LF	\$70.00	\$1,330.00	\$80.00 \$11.00	\$1,520.00 \$924.00	\$8.00	\$672.00	\$21.00	\$1,764.00
98	REMOVAL OF SIDEWALK		84 SY	\$15.00	\$1,260.00	\$11.00	\$924.00 \$18,993.75	\$5.00	\$15,195.00	\$14.00	\$42,546.00
99	REMOVAL OF SHARED USE PATH		3039 SY	\$12.00	\$36,468.00	\$6.25 \$8.50	\$17,297.50	\$6.00	\$12,210.00	\$14.00	\$28,490.00
100	REMOVAL OF DRIVEWAY		2035 SY	\$12.00	\$24,420.00	\$8.50 \$9.50	\$17,297.50	\$7.00	\$280.00	\$21.00	\$840.00
101	REMOVAL OF CURB		40 LF	\$20.00 \$55.00	\$800.00	\$9.50	\$140,664.45	\$42.00	\$112,854.00	\$56.00	\$150,472.00
102	SHARED USE PATH, HMA, 6" THICK		2687 SY	\$55.00 \$70.00	\$147,785.00 \$31,920.00		\$30,096.00	\$66.00	\$30,096.00	\$84.00	\$38,304.00
103	SHARED USE PATH, PCC, 6" THICK		456 SY	\$70.00 \$70.00	\$31,920.00		\$19,076.00	\$77.00	\$19,327.00	\$84.00	\$21,084.00
104	SIDEWALK, PCC, 6" THICK		251 SY 32 SF	\$70.00	\$1,600.00	Contraction of the Second	\$2,080.00	\$62.00	\$1,984.00	\$168.00	\$5,376.00
105	DETECTABLE WARNING		52 OF	φυυ.υυ	φ1,000.00	i \$55.50	+=,000,001	+			

			UNIT		UNIT		UNIT		UNIT	
ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
106	DRIVEWAY, PAVED, PCC, 6" THICK	1574 SY	\$70.00	\$110,180.00	\$65.00	\$102,310.00	\$64.00	\$100,736.00	\$77.00	\$121,198.00
107	DRIVEWAY, GRANULAR	1017 TONS	\$50.00	\$50,850.00	\$35.00	\$35,595.00	\$38.00	\$38,646.00	\$70.00	\$71,190.00
108	REMOVE AND STOCKPILE EXISTING TRAIL LIGHTING	12 EA	\$2,000.00	\$24,000.00	\$1,675.00	\$20,100.00	\$1,685.00	\$20,220.00	\$2,380.00	\$28,560.00
109	DEMOLISH EXISTING LIGHTING FOUNDATION	12 EA	\$750.00	\$9,000.00	\$600.00	\$7,200.00	\$300.00	\$3,600.00	\$1,400.00	\$16,800.00 \$92,400.00
110	RE-INSTALL EXISTING TRAIL LIGHTING	11 EA	\$4,000.00	\$44,000.00	\$5,950.00	\$65,450.00	\$6,000.00	\$66,000.00	\$8,400.00 \$105.00	\$2,310.00
111	REMOVE AND STOCKPILE EXISTING SIGN	22 EA	\$200.00	\$4,400.00	\$80.00	\$1,760.00	\$77.00	\$1,694.00	\$280.00	\$6,160.00
112	RESET STOCKPILED EXISTING SIGN	22 EA	\$200.00	\$4,400.00	\$205.00	\$4,510.00	\$205.00 \$205.00	\$4,510.00 \$4,920.00	\$280.00	\$6,720.00
113	FLEXIBLE DELINEATOR POSTS	24 EA	\$125.00	\$3,000.00	\$205.00	\$4,920.00	φ205.00	\$4,520.00	φ200.00	ψ0,120.00
	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE, 4" WIDE	1008 LF	\$12.00	\$12,096.00	\$27.00	\$27,216.00	\$9.25	\$9,324.00	\$35.00	\$35,280.00
114	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE, 7"	1000 EI	ψ12.00	φ12,000.00	φ <b>2</b> 7.00	<i><b>4</b>21,210,000</i>	+ - i = -			
115	WIDE	8 LF	\$20.00	\$160.00	\$37.00	\$296.00	\$155.00	\$1,240.00	\$49.00	\$392.00
116	PAVEMENT SYMBOLS AND LEGENDS	1 EA	\$1,000.00	\$1,000.00	\$300.00	\$300.00	\$102.00	\$102.00	\$350.00	\$350.00
117	TEMPORARY TRAFFIC CONTROL	1 LS	\$70,000.00	\$70,000.00	\$225,500.00	\$225,500.00	\$200,000.00	\$200,000.00	\$56,000.00	\$56,000.00
	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING -									and a second second second
118	DES MOINES SEED MIX	39.33 AC	\$6,000.00	\$235,980.00	\$5,600.00	\$220,248.00	\$5,700.00	\$224,181.00	\$7,700.00	\$302,841.00
	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING -									0040.00
119	WETLAND MIX	0.03 AC	\$15,000.00	\$450.00	\$5,500.00	\$165.00	\$5,200.00	\$156.00	\$7,000.00	\$210.00
120	WARRANTY, SEEDING	1 LS	\$15,000.00	\$15,000.00	\$25,000.00	\$25,000.00	\$25,500.00	\$25,500.00 \$41,349.00	\$35,000.00 \$105.00	\$35,000.00 \$56,385.00
121	SOD	537 SQ	\$80.00	\$42,960.00	\$76.00	\$40,812.00	\$77.00 \$15,000.00	\$15,000.00	\$12,600.00	\$12,600.00
122	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	1 LS	\$35,000.00	\$35,000.00	\$14,800.00	\$14,800.00 \$80.656.00	\$15,000.00	\$80,656.00	\$2.00	\$100,820.00
123	TEMPORARY RECP, TYPE 3.B	50410 SY	\$7.00	\$352,870.00 \$36,105.00	\$1.60 \$2.35	\$28,282.25	\$2.35	\$28,282.25	\$3.00	\$36,105.00
124	WATTLE, STRAW, 12"	12035 LF 12035 LF	\$3.00 \$1.00	\$12,035.00	\$1.25	\$15,043.75	\$0.30	\$3,610.50	\$1.00	\$12,035.00
125	WATTLE, REMOVAL RIP RAP. IDOT CLASS A	8425 TON	\$55.00	\$463,375.00	\$68.00	\$572,900.00	\$77.00	\$648,725.00	\$66.00	\$556,050.00
126	RIP RAP, IDOT CLASS A RIP RAP, IDOT CLASS B	19682 TON	\$65.00	\$1,279,330.00	\$67.00	\$1,318,694.00	\$77.00	\$1,515,514.00	\$71.50	\$1,407,263.00
127 128	RIP RAP, IDOT CLASS B RIP RAP, IDOT CLASS E	47080 TON	\$72.00	\$3,389,760.00	\$66.00	\$3,107,280.00	\$76.00	\$3,578,080.00	\$77.00	\$3,625,160.00
120	SILT FENCE	18060 LF	\$3.00	\$54,180.00	\$1.85	\$33,411.00	\$2.00	\$36,120.00	\$2.00	\$36,120.00
129	SILT FENCE SILT FENCE, REMOVAL OF DEVICE	18060 LF	\$1.00	\$18,060.00	\$1.05	\$18,963.00	\$0.10	\$1,806.00	\$0.25	\$4,515.00
130	EROSION CONTROL MULCHING, HYDROMULCHING	20 AC	\$4,000.00	\$80,000.00	\$2,200.00	\$44,000.00	\$2,050.00	\$41,000.00	\$2,800.00	\$56,000.00
131	INLET PROTECTION DEVICE, SURFACE APPLIED	5 EA	\$400.00	\$2,000.00	\$170.00	\$850.00	\$180.00	\$900.00	\$231.00	\$1,155.00
132	INLET PROTECTION DEVICE, WATTLES, STRAW	13 EA	\$200.00	\$2,600.00	\$125.00	\$1,625.00	\$105.00	\$1,365.00	\$140.00	\$1,820.00
134	INLET PROTECTION DEVICE, MAINTENANCE	13 EA	\$55.00	\$715.00	\$50.00	\$650.00	\$30.00	\$390.00	\$35.00	\$455.00
135	STABILIZED CONSTRUCTION ENTRANCE	414 TON	\$55.00	\$22,770.00	\$75.50	\$31,257.00	\$40.00	\$16,560.00	\$77.00	\$31,878.00
136	ZINC-COATED CHAINLINK, 72" HEIGHT	1858 LF	\$50.00	\$92,900.00	\$23.50	\$43,663.00	\$23.50	\$43,663.00	\$35.00	\$65,030.00
137	PVC-COATED CHAINLINK, 96" HEIGHT	220 LF	\$65.00	\$14,300.00	\$48.00	\$10,560.00	\$48.00	\$10,560.00	\$70.00	\$15,400.00
										00 100 00
138	GATE, CANTILEVER, ZINC-COATED STEEL, 30' WIDE, 72" HEIGHT	1 EA	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$8,190.00	\$8,190.00
	GATE, SINGLE SWING, ZINC-COATED STEEL, 12' WIDE, 72"	4 5 4	¢0,000,00	¢0.000.00	00 000 10	\$1,300.00	\$1,300.00	\$1,300.00	\$1,750.00	\$1,750.00
139		1 EA	\$2,000.00	\$2,000.00	\$1,300.00	\$1,500.00	\$1,500.00	φ1,500.00	ψ1,750.00	ψ1,700.00
140	GATE, DOUBLE SWING, ZINC-COATED STEEL, 20' WIDE, 72" HEIGHT	1 EA	\$5,000.00	\$5,000.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$2,100.00	\$2,100.00
140	height	I LA	φ0,000.00	40,000.00	\$1,000.00	<i>↓</i> .,	*		• • • •	
141	GATE, SINGLE SWING, PVC-COATED STEEL, 4' WIDE, 96" HEIGHT	2 EA	\$2,000.00	\$4,000.00	\$1,100.00	\$2,200.00	\$1,100.00	\$2,200.00	\$1,470.00	\$2,940.00
	GATE, DOUBLE SWING, PVC-COATED STEEL, 20' WIDE, 96"									
142	HEIGHT	2 EA	\$5,000.00	\$10,000.00	\$2,000.00	\$4,000.00	\$2,100.00	\$4,200.00	\$2,800.00	\$5,600.00
143	BARBED WIRE, 3 STRAND, TYPE II ARMS	1199 LF	\$8.00	\$9,592.00	\$3.85	\$4,616.15	\$4.00	\$4,796.00	\$7.00	\$8,393.00
144	REMOVAL OF FENCE	2172 LF	\$6.50	\$14,118.00	\$3.00	\$6,516.00	\$3.00	\$6,516.00	\$3.50	\$7,602.00
145	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	200 CY	\$1,400.00	\$280,000.00	\$1,120.00	\$224,000.00	\$2,500.00	\$500,000.00	\$1,029.00	\$205,800.00
146	HANDRAIL, SPECIAL, ALUMINUM	221 LF	\$100.00	\$22,100.00	\$250.00	\$55,250.00	\$360.00	\$79,560.00	\$322.00	\$71,162.00
147	ARTICULATED CONCRETE BLOCK MATTING	54370 SF	\$17.00	\$924,290.00	\$12.75	\$693,217.50	\$19.40	\$1,054,778.00	\$28.00	\$1,522,360.00
148	WINDROW AND STOCKPILE RIP RAP	4531 TON	\$45.00	\$203,895.00	\$19.50	\$88,354.50	\$21.00	\$95,151.00	\$63.00	\$285,453.00
149	PLUG OR ABANDON MONITORING WELL	3 EA	\$1,500.00	\$4,500.00	\$1,500.00	\$4,500.00	\$1,200.00	\$3,600.00	\$4,200.00	\$12,600.00
150	CONSTRUCTION SURVEY	1 LS	\$75,000.00	\$75,000.00	\$70,000.00	\$70,000.00	\$100,000.00	\$100,000.00	\$91,000.00	\$91,000.00
151	MONUMENT PRESERVATION OR REPLACEMENT	1 LS	\$8,000.00	\$8,000.00	\$12,000.00	\$12,000.00	\$7,500.00	\$7,500.00	\$14,000.00	\$14,000.00 \$2,611,000,00
152	MOBILIZATION	1 LS	\$1,106,148.00	\$1,106,148.00	\$940,000.00	\$940,000.00	\$1,000,000.00	\$1,000,000.00	\$2,611,000.00 \$28,000.00	\$2,611,000.00 \$28,000.00
153	CONCRETE WASHOUT	1 LS	\$20,000.00	\$20,000.00	\$6,000.00	\$6,000.00	\$5,600.00	\$5,600.00	and an an international second	\$275,000.00
154	FLOOD CONTINGENCY PLAN	1 LS	\$150,000.00	\$150,000.00	\$200,000.00	\$200,000.00	\$5,000.00	\$5,000.00	\$275,000.00	φ210,000.00
155	RAILROAD PROTECTIVE INSURANCE AND COORDINATION (IAIR)	1 LS	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00	\$5,000.00	\$5,000.00	\$28,000.00	\$28,000.00
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ITEM	DESCRIPTION		QUANTITY	UNIT <u>PRICE</u>	AMOUNT	UNIT <u>PRICE</u>	AMOUNT	UNIT <u>PRICE</u>	AMOUNT	UNIT <u>PRICE</u>	AMOUNT
156	RAILROAD PROTECTIVE INSURANCE AND	COORDINATION (UPRR)	1 LS	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00	\$5,000.00	\$5,000.00	\$28,000.00	\$28,000.00
	TOTAL CONSTRUCTION COST PERCENT OF ENGINEER'S ESTIMATE				\$13,800,000.00		\$12,686,390.85 -8.07% Low		\$15,443,268.75 +11.91%		\$17,117,284.00 +24.04%