## **Roll Call Number**

Agenda Item Number

65

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 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 neccessary 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

Nickolas J. Schaul Director of Finance



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	I, P. Kay Cmelik, City Clerk of said City
COWNIE					Council, hereby certify that at a meeting of the
WESTERGAARD					City Council, held on the above date, among other proceedings the above was adopted.
GRAY					
BOESEN					IN WITNESS WHEREOF, I have hereunto set
VOSS					my hand and affixed my seal the day and year
MANDELBAUM					first above written.
GATTO					
TOTAL					
MOTION CARRIED				APPROVED	
				Мауо	r City Clerk

DEPARTMENT OF ENGINEERING CITY OF DES MOINES, IOWA

	DES MOINES, IOWA											
		BID DA	TE: 4/06/2021	1	RW Exc		Raccoor	-	Progress		Syne	
TADUL	ATED BY: L.A. Vaughan APPROVED BY <u>P. Magemen</u>				Solutio Prairie (		Contra Wauke		Structures Elkader	and the second sec	Contracti Altoon	
CHECK	ED BY: Martin Lada La				Flaine							
	ACTOR'S BID TABULATION				BID SEC	and the second se	BID SEC		BID SECU 10% Bid		BID SEC 10% Bid	n and a construction of the second
PROJE	CT: CLOSES CREEK STORM SEWER IMPROVEMENTS - PHASE 24	AND 2B			10% Bi		10% Bi				BID PI	
	ESTIMATE				BID P	RICE	BID P	RICE	BID PR	ICE	DID FI	
					UNIT		UNIT		UNIT		UNIT	
		OUANTITY	UNIT PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION	QUANTITY 4.18 AC	\$10,000.00	\$41,800.00	\$9,000.00	\$37,620.00	\$20,000.00	\$83,600.00	\$12,500.00	\$52,250.00	\$13,300.00	\$55,594.00
	Clearing and Grubbing	3856 CY	\$25.00	\$96,400.00	\$18.00	\$69,408.00	\$18.36	\$70,796.16	\$14.60	\$56,297.60	\$21.00	\$80,976.00
2	Topsoil, On-site	24652 CY	\$25.00	\$616,300.00	\$18.00	\$443,736.00	\$14.28	\$352,030.56	\$18.30	\$451,131.60	\$21.00	\$517,692.00
3	Excavation, Class 13	542 CY	\$30.00	\$16,260.00	\$25.00	\$13,550.00	\$51.00	\$27,642.00	\$28.00	\$15,176.00	\$70.00	\$37,940.00
4	Below Grade Excavation (Core Out)	2648 SY	\$8.00	\$21,184.00	\$4.50	\$11,916.00	\$3.06	\$8,102.88	\$7.50	\$19,860.00	\$3.50	\$9,268.00
5.	Subgrade Preparation Subgrade Treatment, Geogrid, Type 2	2648 SY	\$5.00	\$13,240.00	\$3.50	\$9,268.00	\$5.10	\$13,504.80	\$5.40	\$14,299.20	\$7.00	\$18,536.00
6 7	Subgrade Treament, Geogra, Type 2 Subbase, Modified	1424 TON	\$40.00	\$56,960.00	\$35.20	\$50,124.80	\$38.76	\$55,194.24	\$26.80	\$38,163.20	\$56.00	\$79,744.00
8	Subbase, Modified Subbase, Special Backfill	223 TON	\$35.00	\$7,805.00	\$35.20	\$7,849.60	\$45.90	\$10,235.70	\$48.50	\$10,815.50	\$42.00	\$9,366.00
8	Filling and Plugging of Known Pipe and Conduit	374 CY	\$300.00	\$112,200.00	\$204.00	\$76,296.00	\$554.57	\$207,409.18	\$212.00	\$79,288.00	\$280.00 \$42.00	\$104,720.00 \$41,160.00
9 10	Trench Foundation	980 TON	\$50.00	\$49,000.00	\$40.00	\$39,200.00	\$10.00	\$9,800.00	\$44.00	\$43,120.00 \$134,400.00	\$42.00	\$112,000.00
11	Imported Granular Backfill	3200 TON	\$40.00	\$128,000.00	\$35.20	\$112,640.00	\$37.00	\$118,400.00	\$42.00		\$35.00	\$19,600.00
12	Special Pipe Support	7 EA	\$2,000.00	\$14,000.00	\$2,000.00	\$14,000.00	\$2,000.00	\$14,000.00	\$2,800.00	\$19,600.00 \$32,536.00	\$2,800.00	\$52,136.00
13	Sanitary Sewer Gravity Main, Trenched, PVC, 10 in	196 LF	\$85.00	\$16,660.00	\$60.00	\$11,760.00	\$207.00	\$40,572.00	\$166.00 \$190.00	\$54,340.00	\$336.00	\$96,096.00
14	Sanitary Sewer Gravity Main, Trenched, PVC, 15 in	286 LF	\$110.00	\$31,460.00	\$85.00	\$24,310.00	\$156.00	\$44,616.00	\$250.00	\$165,500.00	\$441.00	\$291,942.00
15	Sanitary Sewer Gravity Main, Trenched, PVC, 24 in	662 LF	\$150.00	\$99,300.00	\$137.00	\$90,694.00	\$232.00	\$153,584.00	\$2,200.00	\$15,400.00	\$5,600.00	\$39,200.00
16	Sanitary Sewer Service Replacement	7 EA	\$4,000.00	\$28,000.00	\$3,000.00	\$21,000.00	\$4,124.00	\$28,868.00 \$81,674.00	\$2,200.00	\$21,050.00	\$42.00	\$35,364.00
17	Removal of Sanitary Sewer	842 LF	\$30.00	\$25,260.00	\$25.00	\$21,050.00	\$97.00 \$304.00	\$41,344.00	\$140.00	\$19.040.00	\$231.00	\$31,416.00
18	Storm Sewer, Trenched, RCP, 15 in	136 LF	\$150.00	\$20,400.00	\$88.54	\$12,041.44	\$304.00	\$37,774.00	\$142.00	\$28,684.00	\$252.00	\$50,904.00
19	Storm Sewer, Trenched, RCP, 18 in	202 LF	\$175.00	\$35,350.00	\$100.10	\$20,220.20 \$17,448.90	\$401.00	\$58,947.00	\$158.00	\$23,226.00	\$273.00	\$40,131.00
20	Storm Sewer, Trenched, RCP, 24 in	147 LF	\$200.00	\$29,400.00	\$118.70 \$85.00	\$12,665.00	\$275.00	\$40,975.00	\$164.00	\$24,436.00	\$280.00	\$41,720.00
21	Storm Sewer, Trenched, PP, 24 in	149 LF	\$150.00	\$22,350.00 \$38,940.00	\$129.35	\$22,894.95	\$413.00	\$73,101.00	\$192.00	\$33,984.00	\$294.00	\$52,038.00
22	Storm Sewer, Trenched, RCP, 30 in	177 LF	\$220.00	\$16,320.00	\$172.10	\$11,702.80	\$469.00	\$31,892.00	\$208.00	\$14,144.00	\$322.00	\$21,896.00
23	Storm Sewer, Trenched, RCP, 36 in	68 LF	\$240.00 \$300.00	\$9,300.00	\$193.75	\$6,006.25	\$369.00	\$11,439.00	\$300.00	\$9,300.00	\$357.00	\$11,067.00
24	Storm Sewer, Trenched, RCP, 42 in	31 LF	\$600.00	\$134,400.00	\$411.80	\$92,243.20	\$1,151.00	\$257,824.00	\$500.00	\$112,000.00	\$665.00	\$148,960.00
25	Storm Sewer, Trenched, RCP, 72 in	224 LF 495 LF	\$2,800.00	\$1,386,000.00	\$1,627.10	\$805,414.50	\$1,380.57	\$683,382.15	\$1,550.00	\$767,250.00	\$2,214.00	\$1,095,930.00
26	Storm Sewer, Trenchless, RCP, 72 in, Class IV	495 LF 595 LF	\$2,800.00	\$14,875.00	\$20.00	\$11,900.00	\$128.00	\$76,160.00	\$25.00	\$14,875.00	\$70.00	\$41,650.00
27	Removal of Storm Sewer, RCP, <30 in	276 LF	\$35.00	\$9,660.00	\$25.00	\$6,900.00	\$110.00	\$30,360.00	\$35.00	\$9,660.00	\$84.00	\$23,184.00
28	Removal of Storm Sewer, RCP, >36 in	747 LF	\$150.00	\$112,050.00	\$100.00	\$74,700.00	\$136.00	\$101,592.00	\$125.00	\$93,375.00	\$161.00	\$120,267.00
29	Removal of Culvert, RCB, 4 ft Span	1 EA	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$12,000.00	\$12,000.00	\$6,000.00	\$6,000.00	\$7,000.00	\$7,000.00
30	Removal of RCB Headwall	86 LF	\$500.00	\$43,000.00	\$220.30	\$18,945.80	\$292.00	\$25,112.00	\$400.00	\$34,400.00	\$406.00	\$34,916.00
31	Pipe Culvert, Trenched, RCP, 54 in	157 LF	\$650.00	\$102,050.00	\$707.90	\$111,140.30	\$956.00	\$150,092.00	\$900.00	\$141,300.00	\$959.00	\$150,563.00
32	Pipe Culvert, Trenched, RCP, 84 in, Class IV	300 LF	\$3,750.00	\$1,125,000.00	\$2,368.75	\$710,625.00	\$1,832.63	\$549,789.00	\$2,400.00	\$720,000.00	\$2,538.00	\$761,400.00
33	Pipe Culvert, Trenchless, RCP, 84 in, Class IV	1 EA	\$2,000.00	\$2,000.00	\$1,315.50	\$1,315.50	\$4,255.00	\$4,255.00	\$2,200.00	\$2,200.00	\$3,080.00	\$3,080.00
34	Pipe Apron, 15 in	1 EA	\$2,500.00	\$2,500.00	\$1,815.50	\$1,815.50		\$4,703.00	\$2,500.00	\$2,500.00	\$3,990.00	\$3,990.00 \$6,160.00
35	Pipe Apron, 24 in Pipe Apron, 42 in	1 EA	\$3,500.00	\$3,500.00	\$3,054.00	\$3,054.00	\$8,584.00	\$8,584.00	\$4,800.00	\$4,800.00	\$6,160.00 \$7,770.00	\$15,540.00
36 37	Pipe Apron, 42 in Pipe Apron, 54 in	2 EA	\$5,000.00	\$10,000.00	\$5,460.00	\$10,920.00	\$13,179.00	\$26,358.00	\$5,800.00	\$11,600.00	\$7,770.00 \$11,480.00	\$15,540.00
38	Pipe Apron, 72 in	2 EA	\$7,500.00	\$15,000.00	\$8,014.00	\$16,028.00		\$45,464.00	\$8,500.00	\$17,000.00 \$82,000.00	\$16,380.00	\$65,520.00
39	Pipe Apron, 84 in	4 EA	\$10,000.00	\$40,000.00	\$7,809.00	\$31,236.00	\$39,722.00	\$158,888.00	\$20,500.00		\$945.00	\$93,555.00
40	Reinforced Concrete Box (RCB), Single Cell, 6 ft x 4 ft	99 LF	\$1,000.00	\$99,000.00	\$770.00	\$76,230.00		\$65,043.00	\$800.00 \$900.00		\$994.00	\$19,880.00
40	Reinforced Concrete Box (RCB), Single Cell, 6 ft x 6 ft	20 LF	\$1,500.00	\$30,000.00	\$990.00	\$19,800.00	\$1,478.00	\$29,560.00	\$900.00		\$1,120.00	\$191,520.00
42	Reinforced Concrete Box (RCB), Single Cell, 8 ft x 6 ft	171 LF	\$1,500.00	\$256,500.00	\$990.00	\$169,290.00		\$135,774.00 \$17,647.00	\$950.00		\$15,680.00	\$15,680.00
43	Sloped End Section, Reinforced Concrete Box (RCB), Single Cell, 8 ft x 6 ft	1 EA	\$10,000.00	\$10,000.00	\$9,900.00	\$9,900.00	and a second sec	\$123,216.00	\$15,500.00	concerns of the second s	\$21,000.00	\$84,000.00
44	Parallel Wing Headwall, PCC, Cast-In-Place, 4 ft x 6 ft	4 EA	\$15,000.00	\$60,000.00	\$12,000.00	\$48,000.00	Contraction and the second	\$17,208.00	\$18,000.00	Contract and a second second	\$28,980.00	\$28,980.00
45	Parallel Wing Headwall, Reinforced Concrete Box (RCB), Single Cell, 6 ft x 6 ft	1 EA	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00 \$80,000.00		\$92,310.00	\$16,000.00		\$21,000.00	\$105,000.00
46	Concrete Collar Connection, 4 ft x 6 ft	5 EA	\$18,000.00	\$90,000.00	\$16,000.00		· · · · · · · · · · · · · · · · · · ·	\$20,400.00	\$16,000.00	the second second second second	\$24,500.00	\$24,500.00
47	Concrete Collar Connection, 6 ft x 6 ft	1 EA	\$20,000.00	\$20,000.00	\$18,000.00 \$684.00			\$173,400.00	\$1,400.00		\$1,680.00	\$285,600.00
48	Culvert Rehabilitation, Lining	170 LF	\$950.00	\$161,500.00 \$36,150.00	\$684.00			\$27,040.20	\$30.00		\$14.00	\$16,870.00
49	Subdrain, Type 1, 6 in	1205 LF	\$30.00	\$36,150.00	\$25.00			\$8,593.50	\$52.00		\$21.00	\$7,077.00
50	Footing Drain Collector, Type 2, Case D, 8 in	337 LF	\$40.00 \$750.00	\$10,500.00			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$8,568.00			\$700.00	\$9,800.00
51	Subdrain Cleanout, Type A-1, 6 in	14 EA	\$750.00	\$10,000.00	\$000.00							

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			UNIT		UNIT	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION	QUANTITY	PRICE	<u>AMOUNT</u> \$2,000.00	PRICE \$1,822.00	AMOUNT \$1,822.00	\$1,530.00	\$1,530.00	\$2,800.00	\$2,800.00	\$2,800.00	\$2,800.00
	Footing Drain Cleanout, Type B, 24 in	1 EA 16 EA	\$2,000.00 \$750.00	\$12,000.00	\$400.00	\$6,400.00	\$612.00	\$9,792.00	\$350.00	\$5,600.00	\$700.00	\$11,200.00
	Subdrain Outlet and Connections, 6 in Footing Drain Outlet and Connection, 8 in	1 EA	\$800.00	\$800.00	\$500.00	\$500.00	\$612.00	\$612.00	\$350.00	\$350.00	\$1,400.00	\$1,400.00 \$2,100.00
• •	Sump Drain Service Connection	3 EA	\$500.00	\$1,500.00	\$400.00	\$1,200.00	\$1,530.00	\$4,590.00	\$275.00 \$230.00	\$825.00 \$86,480.00	\$700.00 \$154.00	\$57,904.00
	Water Main, Trenched, DIP, 8 in	376 LF	\$160.00	\$60,160.00	\$147.00	\$55,272.00	\$313.00 \$357.00	\$117,688.00 \$3,927.00	\$600.00	\$6,600.00	\$980.00	\$10,780.00
57	Fitting, Bend, 8 in	11 EA	\$850.00	\$9,350.00 \$6,000.00	\$651.00 \$1,062.00	\$7,161.00 \$6,372.00	\$275.00	\$1,650.00	\$630.00	\$3,780.00	\$728.00	\$4,368.00
	Fitting, Solid Sleeve, 8 in	6 EA 4 EA	\$1,000.00 \$3,000.00	\$12,000.00	\$2,517.00	\$10,068.00	\$3,525.00	\$14,100.00	\$3,300.00	\$13,200.00	\$5,530.00	\$22,120.00
59	Water Service, 1 in, Opposite Side Water Service, 1 in, Same Side	1 EA	\$2,500.00	\$2,500.00	\$2,017.00	\$2,017.00	\$2,458.00	\$2,458.00	\$3,000.00	\$3,000.00	\$2,800.00	\$2,800.00 \$6,300.00
60 61	Magnesium Anode, 32-lb	9 EA	\$1,000.00	\$9,000.00	\$972.00	\$8,748.00	\$800.00	\$7,200.00	\$600.00 \$18.00	\$5,400.00 \$6,534.00	\$700.00 \$28.00	\$10,164.00
62	Removal of Water Main	363 LF	\$80.00	\$29,040.00	\$40.00	\$14,520.00	\$84.00 \$9,000.00	\$30,492.00 \$45,000.00	\$8,800.00	\$44,000.00	\$7,560.00	\$37,800.00
63	Manhole, Type SW-301, 48 in	5 EA	\$7,500.00	\$37,500.00 \$15,000.00	\$7,502.00 \$8,479.00	\$37,510.00 \$16,958.00	\$9,000.00	\$23,000.00	\$17,500.00	\$35,000.00	\$7,700.00	\$15,400.00
64	Manhole, Type SW-303, 48 in	2 EA 1 EA	\$7,500.00 \$5,000.00	\$5,000.00	\$5,353.00	\$5,353.00	\$12,000.00	\$12,000.00	\$5,200.00	\$5,200.00	\$6,720.00	\$6,720.00
65	Manhole, Type SW-401, 48 in	2 EA	\$10,000.00	\$20,000.00	\$7,727.00	\$15,454.00	\$13,000.00	\$26,000.00	\$8,400.00	\$16,800.00	\$8,120.00	\$16,240.00 \$19,880.00
66 67	Manhole, Type SW-401, 72 in Manhole, Type SW-402, Modified, 72 in x 48 in	1 EA	\$15,000.00	\$15,000.00	\$10,569.00	\$10,569.00	\$23,000.00	\$23,000.00	\$14,800.00	\$14,800.00 \$56,500.00	\$19,880.00 \$60,970.00	\$60,970.00
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	\$49,000.00	\$49,000.00 \$65,000.00	\$56,500.00 \$58,500.00	\$58,500.00	\$95,550.00	\$95,550.00
69	Manhole, Type SW-404, 9 ft x 9 ft, 60 in Riser	1 EA	\$75,000.00	\$75,000.00	\$82,500.00 \$93,500.00	\$82,500.00 \$93,500.00	\$65,000.00 \$72,000.00	\$72,000.00	\$66,000.00	\$66,000.00	\$100,870.00	\$100,870.00
70	Manhole, Type SW-404, 12 ft x 5 ft	1 EA	\$85,000.00 \$7,500.00	\$85,000.00 \$7,500.00	\$5,264.00	\$5,264.00	\$20,000.00	\$20,000.00	\$8,800.00	\$8,800.00	\$15,001.00	\$15,001.00
71	Manhole, Type SW-404, Modified	1 EA 1 EA	\$10,000.00	\$10,000.00	\$13,868.00	\$13,868.00	\$14,069.00	\$14,069.00	\$6,400.00	\$6,400.00	\$9,380.00	\$9,380.00
72	Manhole, Type SW-405, 72 in	1 EA	\$12,500.00	\$12,500.00	\$27,524.00	\$27,524.00	\$19,000.00	\$19,000.00	\$6,400.00	\$6,400.00	\$10,080.00	\$10,080.00 \$129,150.00
73 74	Manhole, Type SW-405, 84 in Intake, Type SW-505	9 EA	\$10,000.00	\$90,000.00	\$11,000.00	\$99,000.00	\$10,300.00	\$92,700.00	\$12,000.00	\$108,000.00 \$60,000.00	\$14,350.00 \$17,640.00	\$70,560.00
74	Intake, Type SW-506	4 EA	\$12,500.00	\$50,000.00	\$13,750.00	\$55,000.00	\$14,000.00	\$56,000.00 \$48,000.00	\$15,000.00 \$8,400.00	\$25,200.00	\$17,500.00	\$52,500.00
76	Intake, Type SW-509	3 EA	\$15,000.00	\$45,000.00	\$16,500.00	\$49,500.00 \$5,500.00	\$16,000.00 \$5,082.00	\$5,082.00	\$3,750.00	\$3,750.00	\$2,240.00	\$2,240.00
77	Intake, Type SW-512, 30 in	1 EA	\$5,000.00	\$5,000.00 \$20,000.00	\$5,500.00 \$11,000.00	\$22,000.00	\$9,500.00	\$19,000.00	\$15,500.00	\$31,000.00	\$11,550.00	\$23,100.00
78	Intake, Type SW-541	2 EA 4 EA	\$10,000.00 \$5,000.00	\$20,000.00	\$5,500.00	\$22,000.00	\$10,000.00	\$40,000.00	\$6,400.00	\$25,600.00	\$12,040.00	\$48,160.00
79	Intake Extension, Type SW-542	4 LA 1 EA	\$12,500.00	\$12,500.00	\$13,750.00	\$13,750.00	\$18,500.00	\$18,500.00	\$21,000.00	\$21,000.00	\$25,550.00	\$25,550.00 \$25,550.00
80 81	Intake, Type SW-545, 14 ft Curb Opening Intake, Type SW-545, 16 ft Curb Opening	1 EA	\$15,000.00	\$15,000.00	\$16,500.00	\$16,500.00	\$19,000.00	\$19,000.00	\$22,000.00 \$24,000.00	\$22,000.00 \$24,000.00	\$25,550.00 \$25,550.00	\$25,550.00
82	Intake, Type SW-545, 18 ft Curb Opening	1 EA	\$17,500.00	\$17,500.00	\$19,250.00	\$19,250.00	\$19,500.00 \$5,890.00	\$19,500.00 \$5,890.00	\$4,400.00	\$4,400.00	\$3,500.00	\$3,500.00
83	Area Intake on Existing RCB	1 EA	\$2,500.00	\$2,500.00	\$2,250.00 \$53,749.00	\$2,250.00 \$53,749.00	\$33,151.00	\$33,151.00	\$19,000.00	\$19,000.00	\$83,790.00	\$83,790.00
84	Outlet Structure Modifications	1 EA	\$15,000.00 \$6,000.00	\$15,000.00 \$6,000.00	\$5,400.00	\$5,400.00	\$6,000.00	\$6,000.00	\$8,300.00	\$8,300.00	\$7,840.00	\$7,840.00
85	External Drop Connection, SW-307, 6 in	1 EA 1 EA	\$8,000.00	\$8,000.00	\$7,200.00	\$7,200.00	\$8,000.00	\$8,000.00	\$10,800.00	\$10,800.00	\$15,400.00	\$15,400.00
86	External Drop Connection, SW-307, 10 in	1 EA	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$13,600.00	\$13,600.00	\$23,800.00 \$2,100.00	\$23,800.00 \$10,500.00
87 88	External Drop Connection, SW-307, 15 in Manhole Adjustment, Minor	5 EA	\$2,500.00	\$12,500.00	\$2,250.00	\$11,250.00	\$3,000.00	\$15,000.00	\$3,700.00 \$6,000.00	\$18,500.00 \$18,000.00	\$3,500.00	\$10,500.00
89	Manhole Adjustment, Major	3 EA	\$3,500.00	\$10,500.00	\$3,500.00	\$10,500.00 \$3,150.00	\$5,100.00 \$2,000.00	\$15,300.00 \$2,000.00	\$2,400.00	\$2,400.00	\$4,200.00	\$4,200.00
90	Connection to Existing Intake	1 EA	\$3,500.00	\$3,500.00 \$7,000.00	\$3,150.00 \$3,150.00	\$6,300.00	\$5,100.00	\$10,200.00	\$4,200.00	\$8,400.00	\$5,600.00	\$11,200.00
91	Connection to Existing RCB	2 EA 10 EA	\$3,500.00 \$1,500.00	\$15,000.00	\$1,350.00	\$13,500.00	\$918.00	\$9,180.00	\$600.00	\$6,000.00	\$700.00	\$7,000.00
92	Remove Intake	7 EA	\$1,500.00	\$10,500.00	\$1,350.00	\$9,450.00	\$612.00	\$4,284.00	\$600.00	\$4,200.00	\$700.00	\$4,900.00 \$8,400.00
93	Remove Manhole, Standard Remove Manhole, Large	6 EA	\$3,000.00	\$18,000.00	\$2,700.00	\$16,200.00	\$1,530.00	\$9,180.00	\$1,000.00 \$64.00	\$6,000.00 \$32,832.00	\$1,400.00 \$91.00	\$46,683.00
94 95	Pavement, PCC, 6 in	513 SY	\$75.00	\$38,475.00	\$62.00	\$31,806.00	\$146.88	\$75,349.44 \$46,524.24	\$32.00	\$34,752.00	\$35.00	\$38,010.00
96	Curb and Gutter, 2.5', 6 in	1086 LF	\$50.00	\$54,300.00	\$29.40		\$42.84 \$87.72	\$29,473.92	\$86.00	\$28,896.00	\$119.00	\$39,984.00
97	Pavement, HMA ST Base, 1" Mix, PG 58-28 S	336 TON	\$120.00	\$40,320.00 \$30,720.00	\$90.30 \$90.00		\$86.70	\$22,195.20	\$85.00	\$21,760.00	\$119.00	\$30,464.00
98	Pavement, HMA ST Surface, 1/2" Mix, No Fric., PG 58-28 V	256 TON 1 LS	\$120.00 \$1,000.00	\$1,000.00	\$1,000.00		\$1,020.00	\$1,020.00	\$1,000.00	\$1,000.00	\$1,400.00	\$1,400.00
99	HMA Pavement Samples and Testing	282 SY	\$15.00	\$4,230.00	\$15.00		\$14.28	\$4,026.96	\$25.00	Construction and and	\$14.00	\$3,948.00
100		395 SY	\$15.00	\$5,925.00	\$15.00		\$14.28	\$5,640.60	\$20.00		\$14.00 \$77.00	\$5,530.00 \$18,634.00
101 102	Removal of Driveway Sidewalk, PCC, 4 in	242 SY	\$60.00	\$14,520.00	\$50.00		\$80.58		\$58.00 \$95.00	a contract of the second se	\$91.00	\$3,640.00
102		40 SY	\$100.00	\$4,000.00	\$80.00		\$98.94 \$51.00	\$3,957.60 \$408.00	\$50.00		\$77.00	\$616.00
104	the second s	8 SF	\$75.00	\$600.00 \$15,725.00	\$62.00 \$62.00			the state of the s	\$60.00		\$91.00	\$16,835.00
105		185 SY 62 SY	\$85.00 \$100.00	\$6,200.00	\$72.00		\$82.62		\$70.00		\$98.00	\$6,076.00
106		32 SY	\$160.00	\$5,120.00	\$125.00		\$127.50		\$132.00		\$175.00	\$5,600.00 \$34,762.00
107		2483 SY	\$20.00	\$49,660.00	\$20.00		Contraction of the second		\$20.00		\$14.00 \$21.00	\$1,470.00
108 109		70 LF	\$12.00	\$840.00	\$10.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$17.50 \$700.00			\$2,527.00
109		3.61 STA	\$550.00	\$1,985.50					\$63,000.00		in the second seco	\$22,260.00
111	Temporary Traffic Control	1 LS	\$75,000.00	\$75,000.00 \$1,000.00					\$5,000.00		\$7,000.00	\$700.00
112		0.1 AC 1 AC	\$10,000.00 \$4,000.00						\$3,900.00	\$3,900.00	\$5,460.00	\$5,460.00
113	Conventional Seeding, Native Seed, Detention Basin Mix	1710										

						T		1		1		1
									UNIT		UNIT	
			UNIT		UNIT		UNIT		PRICE	AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT			\$5,460.00	\$1,092.00
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 \$6,825.00	\$5,460.00 \$5,460.00	\$9,555.00
	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	\$3,410.00	\$4,340.00 \$4,340.00	\$4,774.00
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	\$4,200.00	\$3,920.00	\$5,880.00
	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	\$11,730.00	\$3,920.00 \$483.00	\$16,422.00
	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 \$275.00	\$6.050.00	\$385.00	\$8,470.00
	Plants with Warranty, Ornamental Trees	22 EA	\$500.00	\$11,000.00	\$512.50	\$11,275.00	\$280.50	\$6,171.00	\$275.00 \$70.00	\$6,050.00	\$98.00	\$23,030.00
120	Plants with Warranty, Shrub	235 EA	\$350.00	\$82,250.00	\$240.00	\$56,400.00	\$71.40	\$16,779.00	\$70.00	\$5,500.00	\$7,700.00	\$7,700.00
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 \$1.35	\$5,500.00	\$3,50	\$28,000.00
122	Temporary RECP, Type 2	8000 SY	\$3.00	\$24,000.00	\$2.50	\$20,000.00	\$1.38	\$11,040.00	\$1.35	\$4,000.00	\$84.00	\$4,200.00
123	Check Dam, Rock	50 TON	\$90.00	\$4,500.00	\$80.00	\$4,000.00	\$56.10	\$2,805.00	\$62.50	\$4,000.00	\$91.00	\$226,044.00
124	Rip Rap, Class D	2484 TON	\$90.00	\$223,560.00	\$65.00	\$161,460.00	\$66.30	\$164,689.20 \$85,496,40	\$210.00	\$106,680.00	\$238.00	\$120,904.00
125	Concrete Grout for Rip Rap	508 CY	\$300.00	\$152,400.00	\$250.00	\$127,000.00	\$168.30	\$6,885.00	\$48.00	\$7,200.00	\$63.00	\$9,450.00
126	Stabilized Construction Entrance	150 TON	\$40.00	\$6,000.00	\$45.00	\$6,750.00	\$45.90	\$8,644.50	\$1,500.00	\$8,475.00	\$2,100.00	\$11,865.00
127	Erosion Control Mulching, Hydromulching	5.65 AC	\$5,000.00	\$28,250.00	\$4,500.00	\$25,425.00	\$1,530.00	\$4,105.50	\$175.00	\$4,025.00	\$245.00	\$5,635.00
128	Inlet Protection Device	23 EA	\$200.00	\$4,600.00	\$150.00	\$3,450.00	\$178.50	\$1,173.00	\$25.00	\$1,150.00	\$35.00	\$1,610.00
129	Inlet Protection Device, Maintenance	46 EA	\$50.00	\$2,300.00	\$50.00	\$2,300.00	\$25.50	\$10,557.00	\$1.50	\$10,350.00	\$3.50	\$24,150.00
130	Linear Erosion Control	6900 LF	\$3.00	\$20,700.00	\$3.00	\$20,700.00	\$1.53 \$0.28	\$1,932.00	\$0.25	\$1,725.00	\$0.50	\$3,450.00
131	Linear Erosion Control, Removal	6900 LF	\$1.00	\$6,900.00	\$1.00	\$6,900.00		\$24,066.90	\$320.00	\$38,720.00	\$273.00	\$33,033.00
132	Gabions	121 CY	\$500.00	\$60,500.00	\$420.00	\$50,820.00	\$198.90	\$13,566,00	\$80.00	\$11,200.00	\$133.00	\$18,620.00
133	Gabions, Removal	140 CY	\$50.00	\$7,000.00	\$50.00	\$7,000.00	\$96.90 \$27.90	\$15,121.80	\$27.35	\$14,823.70	\$42.00	\$22,764.00
134	Fence, Chain Link, 4 ft	542 LF	\$40.00	\$21,680.00	\$30.00	\$16,260.00	\$27.90	\$4,294.96	\$28.45	\$4,210.60	\$42.00	\$6,216.00
135	Fence, Chain Link, 6 ft	148 LF	\$50.00	\$7,400.00	\$31.00	\$4,588.00	\$29.02 \$47.94	\$2,013.48	\$47.00	\$1,974.00	\$70.00	\$2,940.00
136	Fence, Wood Privacy, 4 ft	42 LF	\$85.00	\$3,570.00	\$50.00	\$2,100.00 \$3,392.00	\$53.24	\$3,407.36	\$52.20	\$3,340.80	\$77.00	\$4,928.00
137	Fence, Wood Privacy, 6 ft	64 LF	\$100.00	\$6,400.00	\$53.00	\$3,392.00	\$306.00	\$306.00	\$300.00	\$300.00	\$420.00	\$420.00
138	Gates, Chain Link, 4 ft High x 4 ft Span	1 EA	\$750.00	\$750.00	\$320.00 \$350.00	\$700.00	\$331.50	\$663.00	\$325.00	\$650.00	\$455.00	\$910.00
139	Gates, Chain Link, 4 ft High x 5 ft Span	2 EA	\$750.00	\$1,500.00		\$7.000.00	\$351.50	\$4,998.00	\$3.50	\$4,900.00	\$3.50	\$4,900.00
140	Removal of Fence	1400 LF	\$10.00	\$14,000.00	\$5.00	\$2,600.00	\$8.67	\$1,127.10	\$8.50	\$1,105.00	\$14.00	\$1,820.00
141	Temporary Chain Link Fence, 4 ft	130 LF	\$30.00	\$3,900.00	\$20.00 \$3.50	\$5,250.00	\$2.55	\$3,825.00	\$2.50	\$3,750.00	\$3.50	\$5,250.00
142	Tree Protection Fence	1500 LF	\$5.00	\$7,500.00 \$491,190.50	\$3.50 \$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
143	Mobilization	1 LS	\$491,190.50	\$491,190.50 \$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
144	Maintenance of Postal Service	1 LS	\$7,500.00		\$5,000.00	\$8,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$9,100.00	\$9,100.00
145	Maintenance of Solid Waste Collection	1 LS	\$10,000.00	\$10,000.00	\$3,500.00	\$3,500.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$700.00	\$700.00
146	Concrete Washout	1 LS	\$7,500.00	\$7,500.00	\$5,500.00	\$65,000.00	\$69,286.56	\$69.286.56	\$125,000.00	\$125,000.00	\$95,200.00	\$95,200.00
147	Vibration Monitoring	1 LS	\$100,000.00	\$100,000.00	\$65,000.00 \$750.00	\$3,000.00	\$612.00	\$2,448.00	\$1,000.00	\$4,000.00	\$3,500.00	\$14,000.00
148	Project Sign, Stormwater	4 EA	\$500.00	\$2,000.00	\$100.00	φ3,000.00	Q012.00	Ψ2,4 10.00	\$ 1,000			
				¢9 000 000 00		\$5,997,160.44		\$6,853,385.43		#######################################		\$7,760,536.00
	TOTAL CONSTRUCTION COST			\$8,000,000.00		-25.04%		-14.33%		-3.38%		-2.99%
	PERCENT OF ENGINEER'S ESTIMATE					-25.04% Low		11.0070				
						LOW	1	1				

DEPARTMENT OF ENGINEERING CITY OF DES MOINES, IOWA

### ACT. ID 08-2021-003 BID DATE: 4/06/2021

Jasper Construction

Services, Inc.

Newton, IA

**BID SECURITY** 

**Rognes** Corporation

Ankeny, IA

BID SECURITY

S.M. Hentges

& Sons, Inc.

**BID SECURITY** 

TABULATED BY: L.A. Vaughan

CHECKED BY:

#### CONTRACTOR'S BID TABULATION

#### DINDDOVEMENTS DUASE 24 AND 28 PR

APPROVED BY Moth Calarta

	ECT: CLOSES CREEK STORM SEWER IMPROVEMENTS - PHASE 2	A AND 2B			BID SEC 10% Bi		BID SEC 10% Bi	and the second sec	BID SEC	JURITY
	ESTIMATE				BID P	RICE	BID P	RICE	BID P	RICE
			UNIT		UNIT		UNIT		UNIT	
ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
100	Clearing and Grubbing	4.18 AC	\$10,000.00	\$41,800.00	\$10,000.00	\$41,800.00	\$20,000.00	\$83,600.00		
1	Established and a second s	3856 CY	\$25.00	\$96,400.00	\$18.00	\$69,408.00	\$20.00	\$77,120.00	Bid not read.	
2 3	Topsoil, On-site Excavation, Class 13	24652 CY	\$25.00	\$616,300.00	\$14.00	\$345,128.00	\$20.00	\$493,040.00	missing page	es.
	Below Grade Excavation (Core Out)	542 CY	\$30.00	\$16,260.00	\$50.00	\$27,100.00	\$20.00	\$10,840.00		
4 5	Subgrade Preparation	2648 SY	\$8.00	\$21,184.00	\$3.00	\$7,944.00	\$5.00	\$13,240.00		
6	Subgrade Freedment, 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	\$15,000.00	\$15,000.00 \$100,000.00		
44	Parallel Wing Headwall, PCC, Cast-In-Place, 4 ft x 6 ft	4 EA	\$15,000.00	\$60,000.00		\$100,000.00	\$25,000.00		1	
45		t 1 EA	\$10,000.00	\$10,000.00		\$15,500.00	\$25,000.00	\$25,000.00	1	
46		5 EA	\$18,000.00	\$90,000.00		\$105,000.00	\$12,000.00	\$60,000.00 \$15,000.00		
47	Concrete Collar Connection, 6 ft x 6 ft	1 EA	\$20,000.00	\$20,000.00		\$22,000.00	\$15,000.00	\$15,000.00	1	
48		170 LF	\$950.00			\$170,000.00	\$1,200.00	\$204,000.00	1	
49	Subdrain, Type 1, 6 in	1205 LF	\$30.00	\$36,150.00		\$30,125.00	\$25.00	\$30,125.00 \$16,850.00	1	
50	Footing Drain Collector, Type 2, Case D, 8 in	337 LF	\$40.00	· · · · · · · · · · · · · · · · · · ·		\$15,165.00	\$50.00	\$16,800.00		
51	Subdrain Cleanout, Type A-1, 6 in	14 EA	\$750.00	\$10,500.00	\$800.00	\$11,200.00	\$1,200.00	\$10,000.00	1	

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					UNIT		UNIT		UNIT	
	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
<u>ITEM</u> 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 \$700.00	\$300.00 \$2,100.00		
55	Sump Drain Service Connection	3 EA	\$500.00	\$1,500.00 \$60,160.00	\$450.00 \$205.00	\$1,350.00 \$77,080.00	\$150.00	\$56,400.00		
56	Water Main, Trenched, DIP, 8 in	376 LF 11 EA	\$160.00 \$850.00	\$9,350.00	\$850.00	\$9,350.00	\$800.00	\$8,800.00		
57 58	Fitting, Bend, 8 in 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 \$55.00	\$7,650.00 \$19,965.00	\$850.00 \$30.00	\$7,650.00 \$10,890.00		
62	Removal of Water Main	363 LF 5 EA	\$80.00 \$7,500.00	\$29,040.00 \$37,500.00	\$7,000.00	\$35,000.00	\$7,500.00	\$37,500.00		
63	Manhole, Type SW-301, 48 in	2 EA	\$7,500.00	\$15,000.00	\$13,000.00	\$26,000.00	\$9,500.00	\$19,000.00		
64 65	Manhole, Type SW-303, 48 in 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 \$54,000.00	\$19,000.00 \$54,000.00		
68	Manhole, Type SW-404, 9 ft x 5 ft, 48 in Riser	1 EA	\$50,000.00	\$50,000.00 \$75,000.00	\$55,000.00 \$65,000.00	\$55,000.00 \$65,000.00	\$83,000.00	\$83,000.00		
69	Manhole, Type SW-404, 9 ft x 9 ft, 60 in Riser	1 EA 1 EA	\$75,000.00 \$85,000.00	\$85,000.00	\$72,000.00	\$72,000.00	\$91,500.00	\$91,500.00		
70	Manhole, Type SW-404, 12 ft x 5 ft	1 EA	\$7,500.00	\$7,500.00	\$12,500.00	\$12,500.00	\$6,700.00	\$6,700.00		
71 72	Manhole, Type SW-404, Modified 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 \$66,000.00		
75	Intake, Type SW-506	4 EA	\$12,500.00	\$50,000.00 \$45,000.00	\$13,500.00 \$15,000.00	\$54,000.00 \$45,000.00	\$16,500.00 \$16,000.00	\$48,000.00		
76	Intake, Type SW-509	3 EA 1 EA	\$15,000.00 \$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00		
77	Intake, Type SW-512, 30 in	2 EA	\$10,000.00	\$20,000.00	\$17,500.00	\$35,000.00	\$11,000.00	\$22,000.00		
78 79	Intake, Type SW-541 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 \$24,750.00	1	
82	Intake, Type SW-545, 18 ft Curb Opening	1 EA	\$17,500.00	\$17,500.00	\$20,500.00 \$4,500.00	\$20,500.00 \$4,500.00	\$24,750.00 \$8,200.00	\$8,200.00		
83	Area Intake on Existing RCB	1 EA 1 EA	\$2,500.00 \$15,000.00	\$2,500.00 \$15,000.00	\$35,000.00	\$35,000.00	\$60,000.00	\$60,000.00	1	
84	Outlet Structure Modifications	1 EA	\$6,000.00	\$6,000.00	\$5,800.00	\$5,800.00	\$7,500.00	\$7,500.00	1	
85 86	External Drop Connection, SW-307, 6 in 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 \$19,500.00		
89	Manhole Adjustment, Major	3 EA	\$3,500.00	\$10,500.00	\$4,000.00 \$1,500.00	\$12,000.00 \$1,500.00	\$6,500.00 \$5,500.00	\$5,500.00		
90	Connection to Existing Intake	1 EA 2 EA	\$3,500.00 \$3,500.00	\$3,500.00 \$7,000.00	\$2,000.00	\$4,000.00	\$5,500.00	\$11,000.00		
91	Connection to Existing RCB	10 EA	\$1,500.00	\$15,000.00	\$850.00	\$8,500.00	\$1,500.00	\$15,000.00		
92 93	Remove Intake Remove Manhole, Standard	7 EA	\$1,500.00	\$10,500.00	\$850.00	\$5,950.00	\$1,500.00	\$10,500.00		
93	Remove Manhole, Large	6 EA	\$3,000.00	\$18,000.00	\$1,500.00	\$9,000.00	\$4,000.00	\$24,000.00	1	
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 \$86.00	\$30,408.00 \$28,896.00	\$35.00 \$86.00	\$38,010.00 \$28,896.00		
97	Pavement, HMA ST Base, 1" Mix, PG 58-28 S	336 TON 256 TON	\$120.00 \$120.00	\$40,320.00 \$30,720.00	\$85.00	\$21,760.00	\$85.00	\$21,760.00	1	
98	Pavement, HMA ST Surface, 1/2" Mix, No Fric., PG 58-28 V	258 TON 1 LS	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00		
99 100	HMA Pavement Samples and Testing Removal of Sidewalk	282 SY	\$15.00	\$4,230.00	\$20.00	\$5,640.00	\$14.00	\$3,948.00		
100		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 \$3,400.00		
103	Sidewalk, PCC, 6 in	40 SY	\$100.00	\$4,000.00	\$85.00	\$3,400.00 \$520.00	\$85.00 \$100.00	\$800.00		
104	Detectable Warnings	8 SF 185 SY	\$75.00 \$85.00	\$600.00 \$15,725.00	\$65.00 \$70.00	\$12,950.00	\$85.00	\$15,725.00		
105	Driveway, Paved, PCC, 6 in Driveway, Paved, PCC, 6 in Reinforced	62 SY	\$100.00	\$6,200.00	\$77.00	\$4,774.00	\$100.00	\$6,200.00		
106	Driveway, Paved, PCC, 6 in, Reinforced Full Depth Patches, PCC	32 SY	\$160.00	\$5,120.00	\$155.00	\$4,960.00	\$200.00	\$6,400.00		
107 108		2483 SY	\$20.00	\$49,660.00	\$24.00	\$59,592.00	\$14.00	\$34,762.00		
100		70 LF	\$12.00	\$840.00	\$30.00	\$2,100.00	\$25.00	\$1,750.00 \$2,527.00		
110		3.61 STA	\$550.00	\$1,985.50	\$275.00	\$992.75 \$23.600.00	\$700.00 \$145,000.00	\$2,527.00 \$145,000.00		
111		1 LS	\$75,000.00	\$75,000.00 \$1,000.00	\$23,600.00 \$5,000.00	\$23,600.00 \$500.00	\$5,000.00	\$500.00		
112		0.1 AC 1 AC	\$10,000.00 \$4,000.00	\$4,000.00	\$3,900.00	\$3,900.00	\$3,900.00	\$3,900.00		
113	Conventional Seeding, Native Seed, Detention Basin Mix		+ 1,000.00						1. In the second se	

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							UNIT		UNIT	
			UNIT		UNIT			AMOUNT	PRICE	AMOUNT
ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	ANICONT
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		
127	Inlet Protection Device	23 EA	\$200.00	\$4,600.00	\$175.00	\$4,025.00	\$175.00	\$4,025.00		
120	Inlet Protection Device. Maintenance	46 EA	\$50.00	\$2,300.00	\$25.00	\$1,150.00	\$25.00	\$1,150.00		
129	Linear Erosion Control	6900 LF	\$3.00	\$20,700.00	\$1.50	\$10,350.00	\$1.50	\$10,350.00		
130	Linear Erosion Control, Removal	6900 LF	\$1.00	\$6,900.00	\$0.25	\$1,725.00	\$0.25	\$1,725.00		
131	Gabions	121 CY	\$500.00	\$60,500.00	\$275.00	\$33,275.00	\$195.00	\$23,595.00		
132	Gabions, Removal	140 CY	\$50.00	\$7,000.00	\$70.00	\$9,800.00	\$95.00	\$13,300.00		
	Fence, Chain Link, 4 ft	542 LF	\$40.00	\$21,680.00	\$28.00	\$15,176.00	\$28.00	\$15,176.00		
134 135	Fence, Chain Link, 4 ft	148 LF	\$50.00	\$7,400.00	\$29.00	\$4,292.00	\$29.00	\$4,292.00		
135	Fence, Wood Privacy, 4 ft	42 LF	\$85.00	\$3,570.00	\$50.00	\$2,100.00	\$47.00	\$1,974.00		
130	Fence, Wood Privacy, 6 ft	64 LF	\$100.00	\$6,400.00	\$55.00	\$3,520.00	\$53.00	\$3,392.00		
	Gates, Chain Link, 4 ft High x 4 ft Span	1 EA	\$750.00	\$750.00	\$300.00	\$300.00	\$300.00	\$300.00		
138	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		
139	Removal of Fence	1400 LF	\$10.00	\$14,000.00	\$3.50	\$4,900.00	\$3.50	\$4,900.00		
140	Temporary Chain Link Fence, 4 ft	130 LF	\$30.00	\$3,900.00	\$8.50	\$1,105.00	\$8.50	\$1,105.00		
141	Tree Protection Fence	1500 LF	\$5.00	\$7,500.00	\$3.50	\$5,250.00	\$2.50	\$3,750.00		
142	I ree Protection Fence Mobilization	1 LS	\$491,190.50	\$491,190.50	\$447,136.25	\$447,136.25	\$975,000.00	\$975,000.00		
143	Mobilization Maintenance of Postal Service	1 LS	\$7,500.00	\$7,500.00	\$3,500.00	\$3,500.00	\$25,000.00	\$25,000.00		
144	Maintenance of Postal Service 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		
145	Concrete Washout	1 LS	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$35,000.00	\$35,000.00		
146	Contraction (Contraction Contraction Contr	1 LS	\$100,000.00	\$100,000.00	\$25,000.00	\$25,000.00	\$121,200.00	\$121,200.00		
147	Vibration Monitoring	4 EA	\$500.00	\$2,000.00	\$1,000.00	\$4,000.00	\$800.00	\$3,200.00		
148	Project Sign, Stormwater		<i></i>	,						
	TOTAL CONCEPTION COST			\$8,000,000.00		\$7,780,000.00		\$7,882,937.00		\$0
						-2.75%		-1.46%		-100.00%
	PERCENT OF ENGINEER'S ESTIMATE									
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