



Date October 23, 2023

**ORDERING CONSTRUCTION OF
2ND AVENUE RECONSTRUCTION FROM UNIVERSITY TO THE DES MOINES RIVER
AND FIXING A DATE FOR RECEIVING OF BIDS ON NOVEMBER 7, 2023
AND PUBLIC HEARING ON DECEMBER 04, 2023
ENGINEER'S ESTIMATE IS \$17,500,000**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the attached communication recommending construction of the following improvement and the method of financing; and also including the recommendation of the Des Moines City Engineer, as the Engineer, submitting plans, specifications, form of contract documents, and Engineer's estimate of cost for the construction of the following improvement:

2nd Avenue Reconstruction from University to the Des Moines River, Activity ID 062020001

The improvement includes the reconstruction of 2nd Avenue with Portland Cement Concrete (PCC) curb and gutter, 12-inch thick Hot Mix Asphalt (HMA) paving, modified subbase, PCC sidewalks and driveways, retaining wall, pavement removal, storm sewer, intakes, subdrain, sanitary sewer, water main, traffic signalization, pavement markings, traffic control, restoration, seeding, sodding, and miscellaneous associated work to complete the project, all in accordance with the contract documents, including Plan File No. 657-165/447, located along 2nd Avenue from University Avenue to the Des Moines River, Des Moines, Iowa

be and the same are hereby approved and accepted. The estimated construction cost for said improvement is \$17,500,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.

BE IT FURTHER RESOLVED: That this Council hereby determines that it is necessary and advisable to construct said improvement in the manner set forth in the plans, specifications, and form of contract documents submitted by the Engineer; and that payment for the cost of said improvement shall be paid from the funding source identified below.

BE IT FURTHER RESOLVED: That a public hearing on said plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be held in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, at 5:00 p.m. on December 04, 2023, at which time this Council will consider any objections offered thereto or to the making of said improvement.

BE IT FURTHER RESOLVED: That proposals will be received by the City of Des Moines, at the office of the Des Moines City Clerk until 11:00 a.m. on November 7, 2023, for the construction of said improvement, and the taking of bids in the manner required by law. Proposals received will be 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 November 7, 2023, after which the bids



7B

Date October 23, 2023

together with a bid tabulation and recommendation of the Engineer will be presented to the City Council at its next meeting for action thereon.

BE IT FURTHER RESOLVED: That an appropriate Notice to Bidders for said improvement be posted, and Notice of Public Hearing for said improvement be published in the Des Moines Register, all as provided and directed by Chapter 26 and/or 314, Code of Iowa.

(Council Communication No. 23-464)

Moved by _____ to adopt. Second by _____

FORM APPROVED:

FUNDS AVAILABLE:

s/Kathleen Vanderpool

s/Nickolas J. Schaul

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

SLN
pwl

Funding Source: 2023-24 CIP, Page 130, Roadway Reconstructon - Second Avenue, ST277, \$500,000 (Max) in Iowa DOT Traffic Safety Improvement Funds under CS-TSF-1945(871)--85-77, \$9,000,000 in T.I.F Bonds, \$3,275,000 in T.I.F Bonds to be issued, \$1,980,000 in Sanitary Sewer Funds, \$275,000 in Sanitary Sewer Funds to be transferred, and the remaining \$2,470,000 from Des Moines Water Works

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

CERTIFICATE

I, Laura Baumgartner, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, 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.

_____ City Clerk

7B

CONSTRUCTION ESTIMATEDEPARTMENT OF ENGINEERING
CITY OF DES MOINES, IOWA

Activity ID 06-2020-001

Date: 10/2/2023

PROJECT: 2ND AVENUE RECONSTRUCTION FROM UNIVERSITY TO THE DES MOINES RIVER

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
1 *	CLEARING AND GRUBBING	UNIT	530	\$75.00	\$39,750.00
2 *	TOPSOIL, OFF-SITE	CY	2140	\$25.00	\$53,500.00
3 *	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	15645	\$25.00	\$391,125.00
4 *	SUBGRADE PREPARATION	SY	15855	\$4.00	\$63,420.00
5 *	SUBGRADE TREATMENT, GEO-GRID, TYPE 2	SY	31710	\$5.00	\$158,550.00
6 *	SUBBASE, MODIFIED, 6 INCH	SY	5510	\$15.00	\$82,650.00
7 *	SUBBASE, MODIFIED, 12 INCH	SY	26200	\$25.00	\$655,000.00
8 *	SUBBASE, 3" MACADAM, 8" THICKNESS	SY	26200	\$18.00	\$471,600.00
9 *	REMOVAL OF STRUCTURE, SIGN FOOTING	EA	11	\$2,500.00	\$27,500.00
10 *	REMOVAL OF STRUCTURE, RETAINING WALLS	SF	1836	\$20.00	\$36,720.00
11 *	BELOW GRADE EXCAVATION, CORE-OUT	CY	300	\$30.00	\$9,000.00
12 *	EXPLORATORY EXCAVATION	EA	50	\$500.00	\$25,000.00
13 *	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	TON	12000	\$35.00	\$420,000.00
14	SANITARY SEWER GRAVITY MAIN, TRENCHED, SOLID WALL PVC, 8 INCH	LF	592	\$80.00	\$47,360.00
15	SANITARY SEWER GRAVITY MAIN, TRENCHED, SOLID WALL PVC, 12 INC	LF	1203	\$100.00	\$120,300.00
16	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 12 INCH	LF	26	\$400.00	\$10,400.00
17	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 36 INCH	LF	161	\$500.00	\$80,500.00
18	SANITARY SEWER SERVICE RELOCATION	EA	30	\$2,500.00	\$75,000.00
19 *	REMOVAL OF SANITARY SEWER, 36 INCH OR LESS	LF	136	\$50.00	\$6,800.00
20 *	REMOVAL OF SANITARY SEWER, LARGER THAN 36 INCH	LF	326	\$70.00	\$22,820.00
21	STORM SEWER, TRENCHED, 8 INCH	LF	90	\$65.00	\$5,850.00
22	STORM SEWER, TRENCHED, DIP, 16 INCH	LF	398	\$250.00	\$99,500.00
23	STORM SEWER, TRENCHED, DIP, 18 INCH	LF	253	\$300.00	\$75,900.00
24	STORM SEWER, TRENCHED, DIP, 24 INCH	LF	288	\$400.00	\$115,200.00
25	STORM SEWER, TRENCHED, 12 INCH	LF	41	\$150.00	\$6,150.00
26	STORM SEWER, TRENCHED, 15 INCH	LF	1201	\$100.00	\$120,100.00
27	STORM SEWER, TRENCHED, 18 INCH	LF	516	\$120.00	\$61,920.00
28	STORM SEWER, TRENCHED, 24 INCH	LF	1082	\$140.00	\$151,480.00

7B

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
29	STORM SEWER, TRENCHED, 30 INCH	LF	451	\$175.00	\$78,925.00
30	STORM SEWER, TRENCHED, 36 INCH	LF	142	\$200.00	\$28,400.00
31	STORM SEWER, TRENCHED, RCPP PRESSURE CONDUIT, 60 INCH	LF	74	\$850.00	\$62,900.00
32	STORM SEWER, TRENCHED, RCAP, 29 INCH	LF	228	\$200.00	\$45,600.00
33	STORM SEWER, TRENCHED, RCAP, 36 INCH	LF	82	\$250.00	\$20,500.00
34	STORM SEWER, TRENCHED, RCP, 8'X4' BOX CULVERT	LF	109	\$900.00	\$98,100.00
35	STORM SEWER, TRENCHED, PRESSURE CONDUIT, 60 INCH	LF	1974	\$750.00	\$1,480,500.00
36	TRENCH DRAIN, SPECIAL #1, CLARK	LS	1	\$40,000.00	\$40,000.00
37	TRENCH DRAIN, SPECIAL #2, COLLEGE	LS	1	\$40,000.00	\$40,000.00
38	TRENCH DRAIN, SPECIAL #3, FRANKLIN	LS	1	\$40,000.00	\$40,000.00
39	TRENCH DRAIN, PARKING LOT	LF	210	\$150.00	\$31,500.00
40 *	REMOVAL OF STORM SEWER, 36 INCH OR LESS	LF	2767	\$10.00	\$27,670.00
41 *	REMOVAL OF STORM SEWER, LARGER THAN 36 INCH	LF	96	\$15.00	\$1,440.00
42 *	REMOVAL OF STORM, TRENCH DRAIN	LS	1	\$7,500.00	\$7,500.00
43	STORM SEWER, EXISTING CONNECTION REPAIR	EA	5	\$2,500.00	\$12,500.00
44	BOX CULVERT END TREATMENT	LS	1	\$10,000.00	\$10,000.00
45	CONNECT TO EXISTING GRAVITY STORM SEWER	EA	10	\$2,000.00	\$20,000.00
46	CONNECT TO EXISTING BOX CULVERT	EA	16	\$3,500.00	\$56,000.00
47	CONNECT TO EXISTING 24" SEWER - FRANKLIN AVE.	EA	1	\$7,500.00	\$7,500.00
48	CONNECT TO EXISTING 60" SEWER - FRANKLIN AVE.	EA	1	\$5,000.00	\$5,000.00
49	CONNECT TO EXISTING 60" SEWER - CLARK ST.	EA	1	\$15,000.00	\$15,000.00
50	SUBDRAIN, LONGITUDINAL, 6 IN. DIA.	LF	7019	\$18.00	\$126,342.00
51	SUBDRAIN, LONGITUDINAL, 8 IN. DIA.	LF	137	\$30.00	\$4,110.00
52	SUBDRAIN CLEANOUT, 6 INCH, TYPE A1	EA	29	\$750.00	\$21,750.00
53	SUBDRAIN CLEANOUT, 8 INCH, TYPE A1	EA	2	\$750.00	\$1,500.00
54	SUBDRAIN OUTLETS AND CONNECTIONS, 6 INCH	EA	63	\$400.00	\$25,200.00
55	SUBDRAIN OUTLETS AND CONNECTIONS, 8 INCH	EA	1	\$1,000.00	\$1,000.00
56	SPOT REPAIRS BY PIPE REPLACEMENT, SANITARY SEWER	EA	10	\$5,000.00	\$50,000.00
57	WATERMAIN, TRENCHED, CL52, 6 INCH, WITH NITRILE GASKETS	LF	5	\$200.00	\$1,000.00
58	WATERMAIN, TRENCHED, CL52, 6 INCH, WITH NITRILE GASKETS, RESTR	LF	15	\$200.00	\$3,000.00
59	WATERMAIN, TRENCHED, CL52, 8 INCH, WITH NITRILE GASKETS	LF	65	\$150.00	\$9,750.00

7B

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
60	WATERMAIN, TRENCHED, CL52, 8 INCH, WITH NITRILE GASKETS, RESTR	LF	242	\$150.00	\$36,300.00
61	WATERMAIN, TRENCHED, CL52, 12 INCH, WITH NITRILE GASKETS	LF	2516	\$150.00	\$377,400.00
62	WATERMAIN, TRENCHED, CL52, 12 INCH, WITH NITRILE GASKETS, REST	LF	118	\$150.00	\$17,700.00
63	WATERMAIN, TRENCHED, C900 DR18, 12 INCH, GASKETED JOINTS	LF	492	\$150.00	\$73,800.00
64	WATERMAIN, TRENCHED, C900 DR18, 16 INCH, GASKETED JOINTS	LF	755	\$150.00	\$113,250.00
65	WATERMAIN, TRENCHED, C900 DR18, 16 INCH, RESTRAINED JOINTS	LF	316	\$150.00	\$47,400.00
66	WATERMAIN WITH CASING PIPE, TRENCHLESS, CL52, 8 INCH, WITH NIT	LF	226	\$2,000.00	\$452,000.00
67	FITTINGS BY WEIGHT, DUCTILE IRON	LB	6200	\$9.00	\$55,800.00
68	WATER SERVICE TRANSFER, 4 INCH, DUCTILE IRON, GASKETED JOINTS	EA	2	\$3,500.00	\$7,000.00
69	WATER SERVICE TRANSFER, 4 INCH, PVC, GASKETED JOINTS	EA	1	\$3,000.00	\$3,000.00
70	WATER SERVICE TRANSFER, 8 INCH, DUCTILE IRON, GASKETED JOINTS	EA	1	\$4,500.00	\$4,500.00
71 *	CHECK DEPTH OF WATER SERVICE	EA	20	\$250.00	\$5,000.00
72	LOWER WATER SERVICE	EA	5	\$1,500.00	\$7,500.00
73	NEW STOP BOX HOUSING AND NEW STOP BOX ROD	EA	41	\$1,000.00	\$41,000.00
74	NEW WATER SERVICE, TRENCHED, COPPER, 1 INCH, SHORT SIDE	EA	12	\$3,500.00	\$42,000.00
75	NEW WATER SERVICE, TRENCHLESS, COPPER, 1 INCH, LONG SIDE	EA	28	\$5,000.00	\$140,000.00
76	NEW WATER SERVICE, TRENCHED, COPPER, 2 INCH, SHORT SIDE	EA	1	\$5,000.00	\$5,000.00
77	NEW WATER SERVICE, TRENCHED, PVC, 4 INCH, SHORT SIDE	EA	1	\$3,500.00	\$3,500.00
78	NEW WATER SERVICE, TRENCHLESS, DIP, 4 INCH, LONG SIDE	EA	2	\$10,000.00	\$20,000.00
79	NEW WATER SERVICE, TRENCHED, DIP, 8 INCH, SHORT SIDE	EA	1	\$5,000.00	\$5,000.00
80	RELOCATE WATER SERVICE	EA	10	\$1,500.00	\$15,000.00
81 *	REMOVAL OF WATERMAIN	LF	2900	\$15.00	\$43,500.00
82	32 LB MAGNESIUM ANODE	EA	50	\$1,000.00	\$50,000.00
83	CATHODIC PROTECTION TEST STATION	EA	2	\$1,500.00	\$3,000.00
84	VALVE, GATE, 8 INCH	EA	10	\$4,500.00	\$45,000.00
85	VALVE, GATE, 12 INCH	EA	9	\$7,000.00	\$63,000.00
86	VALVE, GATE, 16 INCH	EA	5	\$10,000.00	\$50,000.00
87	FIRE HYDRANT ASSEMBLY	EA	12	\$5,000.00	\$60,000.00
88 *	FLUSHING DEVICE (TEMPORARY BLOWOFF HYDRANT)	EA	15	\$2,500.00	\$37,500.00
89	VALVE BOX ADJUSTMENT	EA	5	\$500.00	\$2,500.00
90	VALVE BOX REPLACEMENT	EA	1	\$1,000.00	\$1,000.00

7B

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
91 *	FIRE HYDRANT ASSEMBLY REMOVAL	EA	7	\$1,500.00	\$10,500.00
92 *	VALVE BOX REMOVAL	EA	24	\$500.00	\$12,000.00
93	SANITARY MANHOLE, SW-301, 48 INCH	EA	10	\$8,000.00	\$80,000.00
94	SANITARY MANHOLE, SW-301, 60 INCH	EA	2	\$12,000.00	\$24,000.00
95	SANITARY MANHOLE, SW-302, 96 INCH X 96 INCH	EA	2	\$30,000.00	\$60,000.00
96	SANITARY MANHOLE, SW-304, 60 INCH X 96 INCH	EA	1	\$25,000.00	\$25,000.00
97	STORM MANHOLE, SW-401, 48 INCH	EA	2	\$5,000.00	\$10,000.00
98	STORM MANHOLE, SW-401, 60 INCH	EA	4	\$10,000.00	\$40,000.00
99	SPECIAL STRUCTURE, ST-302	EA	1	\$200,000.00	\$200,000.00
100	SPECIAL STRUCTURE, ST-304	EA	1	\$150,000.00	\$150,000.00
101	SPECIAL STRUCTURE, ST-306	EA	1	\$150,000.00	\$150,000.00
102	INTAKE, SW-501	EA	12	\$7,500.00	\$90,000.00
103	INTAKE, SW-503	EA	8	\$10,000.00	\$80,000.00
104	INTAKE, SW-504	EA	2	\$10,000.00	\$20,000.00
105	INTAKE, SW-505	EA	15	\$10,000.00	\$150,000.00
106	INTAKE, SW-506	EA	7	\$15,000.00	\$105,000.00
107	INTAKE, SW-507	EA	4	\$12,500.00	\$50,000.00
108	INTAKE, SW-509	EA	16	\$15,000.00	\$240,000.00
109	INTAKE, SW-511	EA	2	\$5,000.00	\$10,000.00
110	INTAKE, SW-512, 18 INCH	EA	3	\$5,000.00	\$15,000.00
111	INTAKE, SW-513, 48 INCH X 48 INCH	EA	1	\$6,000.00	\$6,000.00
112	INTAKE, SW-516	EA	3	\$9,000.00	\$27,000.00
113	MANHOLE ADJUSTMENT, MINOR	EA	14	\$2,000.00	\$28,000.00
114	MANHOLE ADJUSTMENT, MAJOR	EA	20	\$4,000.00	\$80,000.00
115	INTAKE ADJUSTMENT, MAJOR	EA	11	\$3,000.00	\$33,000.00
116 *	REMOVE MANHOLE (SANITARY)	EA	7	\$1,500.00	\$10,500.00
117 *	REMOVE MANHOLE (STORM)	EA	12	\$1,500.00	\$18,000.00
118 *	REMOVE INTAKE	EA	34	\$1,500.00	\$51,000.00
119 *	ABANDONMENT OF EXISTING OVERFLOW STRUCTURE	EA	1	\$50,000.00	\$50,000.00
120	PAVEMENT, PCC, 7 INCH	SY	2373	\$70.00	\$166,110.00
121	PAVEMENT, PCC, 10 INCH	SY	2873	\$100.00	\$287,300.00

7B

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
122	CURB AND GUTTER, 2 FOOT WIDTH, 12 INCH THICK, 6 INCH RISER	LF	7851	\$55.00	\$431,805.00
123	CONCRETE MEDIAN, 12 INCH THICK, 6 INCH RISER	SY	60	\$225.00	\$13,500.00
124	HMA HT BASE, 3/4" MIX, PG58-28H	TON	5500	\$100.00	\$550,000.00
125	HMA HT INTERMEDIATE, 1/2" MIX, PG58-28H	TON	5500	\$100.00	\$550,000.00
126	HMA HT SURFACE, 1/2" MIX, PG58-28H	TON	5500	\$100.00	\$550,000.00
127 *	PAVEMENT, TEMPORARY, 6 INCH	SY	4750	\$60.00	\$285,000.00
128 *	REMOVAL OF SIDEWALK	SY	4114	\$10.00	\$41,140.00
129 *	REMOVAL OF DRIVEWAY	SY	12221	\$10.00	\$122,210.00
130	SIDEWALK, PCC, 5 INCH	SY	4293	\$55.00	\$236,115.00
131	SIDEWALK, PCC, 6 INCH	SY	596	\$70.00	\$41,720.00
132	DETECTABLE WARNING, CAST IRON	SF	450	\$50.00	\$22,500.00
133	DRIVEWAY, PAVED, PCC, 6 IN.	SY	316	\$70.00	\$22,120.00
134	DRIVEWAY, PAVED, PCC, 7 IN.	SY	4167	\$70.00	\$291,690.00
135	DRIVEWAY, PAVED, PCC, 8 IN.	SY	2916	\$90.00	\$262,440.00
136	DRIVEWAY, PAVED, HMA, 6 IN.	SY	582	\$125.00	\$72,750.00
137 *	DRIVEWAY, GRANULAR, TEMPORARY CLASS A, 6 INCH	TON	2500	\$40.00	\$100,000.00
138 *	PAVEMENT REMOVAL	SY	25559	\$10.00	\$255,590.00
139	TRAFFIC SIGNALIZATION - SYSTEM A	LS	1	\$15,000.00	\$15,000.00
140	TRAFFIC SIGNALIZATION - SYSTEM B	LS	1	\$35,000.00	\$35,000.00
141	TRAFFIC SIGNALIZATION - SYSTEM C	LS	1	\$35,000.00	\$35,000.00
142	TRAFFIC SIGNALIZATION - SYSTEM D	LS	1	\$350,000.00	\$350,000.00
143	TRAFFIC SIGNALIZATION - SYSTEM E	LS	1	\$325,000.00	\$325,000.00
144	TRAFFIC INTERCONNECT	LS	1	\$160,000.00	\$160,000.00
145 *	PAINTED PAVEMENT MARKINGS, DURABLE, EPOXY	STA	184	\$250.00	\$46,000.00
146 *	PAVEMENT MARKINGS, PREFORMED THERMOPLASTIC	STA	184	\$475.00	\$87,400.00
147 *	PAINTED SYMBOLS AND LEGENDS, DURABLE, EPOXY	EA	17	\$275.00	\$4,675.00
148 *	PAVEMENT MARKINGS REMOVED	STA	20	\$50.00	\$1,000.00
149 *	TEMPORARY PAVEMENT MARKINGS, TAPE	STA	100	\$300.00	\$30,000.00
150 *	TEMPORARY PAVEMENT MARKINGS, WATERBORNE	STA	184	\$70.00	\$12,880.00
151 *	TEMPORARY TRAFFIC CONTROL	LS	1	\$175,000.00	\$175,000.00
152 *	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	80	\$120.00	\$9,600.00

113

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
153	TYPE A SIGN, SHEET ALUMINUM	SF	319.08	\$30.00	\$9,572.40
154 *	REMOVE SIGN AND SIGN POST	SF	77	\$150.00	\$11,550.00
155	PERFORATED SQUARE STEEL TUBE POSTS	LF	359	\$35.00	\$12,565.00
156 *	REMOVE AND REINSTALL SIGN	EA	1	\$150.00	\$150.00
157 *	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, LEVEE	AC	0.2	\$10,000.00	\$2,000.00
158 *	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING	AC	1	\$6,000.00	\$6,000.00
159 *	SOD	SQ	720	\$125.00	\$90,000.00
160 *	STORMWATER POLLUTION PREVENTION	LS	1	\$10,000.00	\$10,000.00
161 *	FILTER SOCK, 9 INCH, INSTALL, MAINTAIN AND REMOVE	LF	10577	\$4.00	\$42,308.00
162 *	SILT FENCE, INSTALL, MAINTAIN AND REMOVE	LF	1305	\$5.00	\$6,525.00
163 *	STABILIZED CONSTRUCTION ENTRANCE	LS	1	\$5,000.00	\$5,000.00
164 *	EROSION CONTROL MULCHING, HYDROMULCHING	AC	2.9	\$4,000.00	\$11,600.00
165 *	INLET PROTECTION DEVICE, INSTALL, MAINTAIN AND REMOVE	EA	115	\$300.00	\$34,500.00
166 *	CHAIN LINK FENCE, CHAIN LINK, 48 INCH	LF	138	\$40.00	\$5,520.00
167 *	CHAIN LINK FENCE, CHAIN LINK, 72 INCH	LF	463	\$50.00	\$23,150.00
168 *	REMOVAL OF FENCE	LF	796	\$7.50	\$5,970.00
169 *	TEMPORARY FENCE, CHAIN LINK, 48 INCH	LF	4175	\$10.00	\$41,750.00
170	MODULAR BLOCK RETAINING WALL	SF	620	\$60.00	\$37,200.00
171	COMBINED CONCRETE SIDEWALK AND RETAINING WALL, TYPE B	CY	84	\$1,000.00	\$84,000.00
172	CONCRETE STEPS, TYPE B	SF	95	\$250.00	\$23,750.00
173	HANDRAIL, GALVANIZED	LF	30	\$225.00	\$6,750.00
174 *	CONSTRUCTION SURVEY	LS	1	\$150,000.00	\$150,000.00
175 *	MONUMENT PRESERVATION AND REPLACEMENT	LS	1	\$25,000.00	\$25,000.00
176 *	MOBILIZATION	LS	1	\$853,162.60	\$853,162.60
177 *	MAINTENANCE OF POSTAL SERVICE	LS	1	\$10,000.00	\$10,000.00
178 *	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	\$15,000.00	\$15,000.00
179 *	TEMPORARY GRANULAR SIDEWALK, 4"	SY	1500	\$40.00	\$60,000.00
180 *	TEMPORARY BARRIER RAIL	LF	2500	\$30.00	\$75,000.00
181 *	CONCRETE WASHOUT	LS	1	\$6,000.00	\$6,000.00
182 *	COMPLETION INCENTIVE NO. 1, LUMP SUM, NO EXCUSE	LS	1	\$300,000.00	\$300,000.00
183 *	COMPLETION INCENTIVE NO. 2, LUMP SUM, NO EXCUSE	LS	1	\$200,000.00	\$200,000.00

7B

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
184 *	MOBILIZATIONS, EROSION CONTROL	EA	40	\$500.00	\$20,000.00
185 *	MOBILIZATIONS, EROSION CONTROL - EMERGENCY	EA	1	\$1,000.00	\$1,000.00
186 *	REMOVE AND REINSTALL MAILBOX	EA	2	\$500.00	\$1,000.00
187 *	TREE PROTECTION FENCE	LF	400	\$5.00	\$2,000.00
188 *	TREE TRUNK PROTECTION	EA	10	\$500.00	\$5,000.00
189 *	VIBRATION MONITORING	LS	1	\$200,000.00	\$200,000.00
190 *	UTILITY POLE TRANSFER	EA	60	\$1,000.00	\$60,000.00
TOTAL CONSTRUCTION COST					\$17,500,000.00

Prepared By: Matt Radermacher

Checked By: _____

* Item does not have to be included in 4-year maintenance bond, but shall be covered by a 1-year maintenance bond.

* Estimate Total= \$5,492,435.60