



**Roll Call Number**

**Agenda Item Number**

59

DATE May 9, 2022

**PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON WESTERN INGERSOLL RUN SEWER SEPARATION PHASE 3; RECEIVE AND FILE BIDS**

WHEREAS, on March 21, 2022, under Roll Call No. 22-0391, 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:

Western Ingersoll Run Sewer Separation Phase 3, 072021002

The improvements include 15-inch to 36-inch storm sewer pipe, 24-inch to 30-inch trenchless storm sewer pipe, storm sewer manholes, storm sewer intakes, sanitary sewer spot repairs, sanitary service adjustments, water main alterations, water services, Hot-Mix-Asphalt (HMA) pavement, Portland Cement Concrete (PCC) curb and gutter, PCC sidewalks, PCC driveways, earthwork, pavement markings, erosion control, and other incidental items; all in accordance with the contract documents, including Plan File No. 642-001/140, located on 35th Street from Ingersoll Avenue to Rollins Avenue, Woodland Avenue from 36th Street to 35th Street, Center Street from 37th Street to 35th Street, 36th Street from Grand Avenue to Ingersoll Avenue, and Grand Avenue from 36th Street to 40th Street, Des Moines, IA

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

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

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

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

- Synergy Contracting, LLC, Altoona, IA
- MPS Engineers, P.C. dba Kingston Services, P.C., Des Moines, IA
- Raccoon Valley Contractors, LLC., Waukee, 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 April 5, 2022. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.



**Roll Call Number**

**Agenda Item Number**

59

DATE May 9, 2022

(City Council Communication Number 22-217 attached)

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

FORM APPROVED:

FUNDS AVAILABLE

/s/ Glenna K. Frank

s/Nickolas J. Schaul

Glenna K. Frank, Assistant City Attorney

Nickolas J. Schaul  
Director of Finance

Funding Source: 2022-23 CIP, Page 98, Western Ingersoll Run Sewer Separation, SS139 , Being: \$6,219,807 SRF Funding and the remaining \$466,193 from Des Moines Water Works

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

Bid Date: 4/5/22

TABULATED BY: N. Smith  
CHECKED BY:   
APPROVED BY:  P. Wagner

**CONTRACTOR'S BID TABULATION**  
PROJECT: WESTERN INGERSOLL RUN SEWER SEPARATION PHASE 3

Synergy Contracting, LLC. Des Moines, IA BID SECURITY 10% Bid Bond BID PRICE	MPS Engineers PC dba Kingston Services PC Des Moines, IA BID SECURITY 10% Bid Bond BID PRICE	Raccoon Valley Contractors Waukee, IA BID SECURITY 10% Bid Bond BID PRICE
--	---	--

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	100 UNIT	\$120.00	\$12,000.00	\$217.00	\$21,700.00	\$156.00	\$15,600.00	\$150.00	\$15,000.00
2	TOPSOIL, OFFSITE	692 CY	\$35.00	\$24,220.00	\$49.00	\$33,908.00	\$54.00	\$37,368.00	\$85.00	\$58,820.00
3	EXCAVATION, CLASS 10	6228 CY	\$25.00	\$155,700.00	\$28.00	\$174,384.00	\$42.00	\$261,576.00	\$25.00	\$155,700.00
4	BELOW GRADE EXCAVATION (CORE OUT)	750 CY	\$45.00	\$33,750.00	\$49.00	\$36,750.00	\$20.00	\$15,000.00	\$50.00	\$37,500.00
5	SUBGRADE PREPARATION	14472 SY	\$6.00	\$86,832.00	\$7.00	\$101,304.00	\$8.00	\$115,776.00	\$5.00	\$72,360.00
6	GRANULAR STABILIZATION	2000 TON	\$40.00	\$80,000.00	\$56.00	\$112,000.00	\$25.00	\$50,000.00	\$70.00	\$140,000.00
7	SUBGRADE TREATMENT, GEOGRID, TYPE 2	4710 SY	\$5.00	\$23,550.00	\$7.00	\$32,970.00	\$3.00	\$14,130.00	\$7.00	\$32,970.00
8	SUBBASSE, MODIFIED, 6"	3688 SY	\$11.00	\$40,568.00	\$21.00	\$77,448.00	\$18.00	\$66,384.00	\$16.00	\$59,008.00
9	SUBBASSE, MODIFIED, 10"	5129 SY	\$18.00	\$92,322.00	\$28.00	\$143,612.00	\$24.00	\$123,096.00	\$26.00	\$133,354.00
10	TRENCH FOUNDATION	485 TON	\$30.00	\$14,550.00	\$56.00	\$27,160.00	\$18.00	\$8,730.00	\$40.00	\$19,400.00
11	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	7500 TON	\$25.00	\$187,500.00	\$42.00	\$315,000.00	\$15.00	\$112,500.00	\$35.00	\$262,500.00
12	SANITARY SEWER SERVICE RELOCATION	20 EA	\$2,500.00	\$50,000.00	\$4,235.00	\$84,700.00	\$4,000.00	\$80,000.00	\$3,999.00	\$79,980.00
13	STORM SEWER, TRENCHED, RCP, 15" DIA.	481 LF	\$120.00	\$57,720.00	\$175.00	\$84,175.00	\$142.00	\$68,302.00	\$517.00	\$248,677.00
14	STORM SEWER, TRENCHED, RCP, 15" DIA., GASKETED	330 LF	\$125.00	\$41,250.00	\$189.00	\$62,370.00	\$156.00	\$51,480.00	\$527.00	\$173,910.00
15	STORM SEWER, TRENCHED, RCP, 18" DIA.	486 LF	\$130.00	\$63,180.00	\$154.00	\$74,844.00	\$164.00	\$79,704.00	\$241.00	\$117,126.00
16	STORM SEWER, TRENCHED, RCP, 18" DIA., TIED	297 LF	\$135.00	\$40,095.00	\$168.00	\$49,896.00	\$172.00	\$51,084.00	\$285.00	\$84,645.00
17	STORM SEWER, TRENCHED, RCP, 24" DIA.	835 LF	\$140.00	\$116,900.00	\$196.00	\$163,660.00	\$176.00	\$146,960.00	\$241.00	\$201,235.00
18	STORM SEWER, TRENCHED, RCP, 24" DIA., GASKETED	571 LF	\$145.00	\$82,795.00	\$203.00	\$115,913.00	\$182.00	\$103,922.00	\$247.00	\$141,037.00
19	STORM SEWER, TRENCHED, RCP, 30" DIA.	1891 LF	\$155.00	\$293,105.00	\$231.00	\$436,821.00	\$194.00	\$366,854.00	\$330.00	\$624,030.00
20	STORM SEWER, TRENCHED, RCP, 30" DIA., GASKETED	41 LF	\$160.00	\$6,560.00	\$238.00	\$9,758.00	\$218.00	\$8,938.00	\$344.00	\$14,104.00
21	STORM SEWER, TRENCHED, RCP, 30" DIA., TIED	137 LF	\$160.00	\$21,920.00	\$266.00	\$36,442.00	\$212.00	\$29,044.00	\$267.00	\$36,579.00
22	STORM SEWER, TRENCHED, RCP, 36" DIA.	191 LF	\$175.00	\$33,425.00	\$266.00	\$50,806.00	\$235.00	\$44,885.00	\$353.00	\$67,423.00
23	STORM SEWER, TRENCHLESS, RCP, 24" DIA.	251 LF	\$800.00	\$200,800.00	\$1,362.00	\$341,862.00	\$1,100.00	\$276,100.00	\$1,100.00	\$276,100.00
24	STORM SEWER, TRENCHLESS, RCP, 30" DIA.	438 LF	\$900.00	\$394,200.00	\$1,416.00	\$620,208.00	\$1,320.00	\$578,160.00	\$1,200.00	\$525,600.00
25	REMOVAL OF STORM SEWER, LESS THAN 36" DIA.	90 LF	\$30.00	\$2,700.00	\$56.00	\$5,040.00	\$45.00	\$4,050.00	\$51.00	\$4,590.00
26	STORM SEWER ABANDONMENT, PLUG	12 EA	\$250.00	\$3,000.00	\$1,960.00	\$23,520.00	\$600.00	\$7,200.00	\$1,030.00	\$12,360.00
27	SUBDRAIN, TYPE 1, 6 IN. DIA.	4910 LF	\$25.00	\$122,750.00	\$30.00	\$147,300.00	\$32.00	\$157,120.00	\$30.00	\$147,300.00
28	SUBDRAIN CLEANOUT, TYPE A-1, 6"	4 EA	\$1,250.00	\$5,000.00	\$735.00	\$2,940.00	\$1,000.00	\$4,000.00	\$500.00	\$2,000.00
29	SUBDRAIN OUTLETS AND CONNECTIONS, TY 1, 6" DIA.	32 EA	\$300.00	\$9,600.00	\$1,085.00	\$34,720.00	\$500.00	\$16,000.00	\$1,000.00	\$32,000.00
30	WATER SERVICE REPLACEMENT, LESS THAN OR EQUAL TO 2" DIA.	21 EA	\$5,000.00	\$105,000.00	\$6,650.00	\$139,650.00	\$5,500.00	\$115,500.00	\$4,145.00	\$87,045.00
	WATER SERVICE REPLACEMENT, LESS THAN OR EQUAL TO 4" DIA.	1 EA	\$10,000.00	\$10,000.00	\$12,600.00	\$12,600.00	\$10,000.00	\$10,000.00	\$7,200.00	\$7,200.00
31	WATER SERVICE TAP	21 EA	\$1,000.00	\$21,000.00	\$1,750.00	\$36,750.00	\$750.00	\$15,750.00	\$1,030.00	\$21,630.00
32	MANHOLE, SW-401, 48 IN. DIA.	5 EA	\$5,000.00	\$25,000.00	\$5,460.00	\$27,300.00	\$6,500.00	\$32,500.00	\$3,100.00	\$15,500.00
33	MANHOLE, SW-401, 60 IN. DIA.	18 EA	\$6,500.00	\$117,000.00	\$7,350.00	\$132,300.00	\$9,000.00	\$162,000.00	\$5,284.00	\$95,112.00
34	MANHOLE, SW-401, 72 IN. DIA.	2 EA	\$8,000.00	\$16,000.00	\$8,715.00	\$17,430.00	\$12,500.00	\$25,000.00	\$5,285.00	\$10,570.00
35	INTAKE, SW-501	24 EA	\$5,000.00	\$120,000.00	\$8,505.00	\$204,120.00	\$6,700.00	\$160,800.00	\$5,072.00	\$121,728.00
36	INTAKE, SW-501 (MODIFIED)	1 EA	\$7,000.00	\$7,000.00	\$8,785.00	\$8,785.00	\$10,250.00	\$10,250.00	\$8,780.00	\$8,780.00
37	INTAKE, SW-502, 48" DIA.	8 EA	\$5,500.00	\$44,000.00	\$5,215.00	\$41,720.00	\$6,000.00	\$48,000.00	\$2,500.00	\$20,000.00
38	INTAKE, SW-502, 60" DIA.	4 EA	\$7,000.00	\$28,000.00	\$6,860.00	\$27,440.00	\$9,000.00	\$36,000.00	\$4,834.00	\$19,336.00
39	INTAKE, SW-505	13 EA	\$8,500.00	\$110,500.00	\$12,880.00	\$167,440.00	\$9,000.00	\$117,000.00	\$9,600.00	\$124,800.00
40	INTAKE, SW-505 (MODIFIED)	3 EA	\$10,000.00	\$30,000.00	\$13,020.00	\$39,060.00	\$11,000.00	\$33,000.00	\$12,000.00	\$36,000.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
42	INTAKE, SW-506	2 EA	\$11,000.00	\$22,000.00	\$14,105.00	\$28,210.00	\$13,250.00	\$26,500.00	\$12,500.00	\$25,000.00
43	INTAKE, SW-507	2 EA	\$12,000.00	\$24,000.00	\$12,635.00	\$25,270.00	\$15,000.00	\$30,000.00	\$12,700.00	\$25,400.00
44	INTAKE, SW-541	1 EA	\$15,000.00	\$15,000.00	\$13,335.00	\$13,335.00	\$20,000.00	\$20,000.00	\$15,800.00	\$15,800.00
45	INTAKE, SW-542	1 EA	\$5,000.00	\$5,000.00	\$13,335.00	\$13,335.00	\$9,250.00	\$9,250.00	\$8,600.00	\$8,600.00
46	MANHOLE ADJUSTMENT, MINOR	12 EA	\$1,500.00	\$18,000.00	\$2,800.00	\$33,600.00	\$1,750.00	\$21,000.00	\$3,000.00	\$36,000.00
47	INTAKE ADJUSTMENT, MAJOR	1 EA	\$4,000.00	\$4,000.00	\$4,900.00	\$4,900.00	\$4,000.00	\$4,000.00	\$4,635.00	\$4,635.00
48	CONNECTION TO EXISTING	7 EA	\$1,500.00	\$10,500.00	\$4,200.00	\$29,400.00	\$2,000.00	\$14,000.00	\$2,000.00	\$14,000.00
49	REMOVE INTAKE	13 EA	\$1,000.00	\$13,000.00	\$700.00	\$9,100.00	\$1,200.00	\$15,600.00	\$1,000.00	\$13,000.00
50	REMOVE MANHOLE	1 EA	\$1,500.00	\$1,500.00	\$2,100.00	\$2,100.00	\$1,500.00	\$1,500.00	\$1,200.00	\$1,200.00
51	PAVEMENT, PCC, 7", INTEGRAL CURB	1029 SY	\$80.00	\$82,320.00	\$88.00	\$90,552.00	\$96.00	\$98,784.00	\$110.00	\$113,190.00
52	PAVEMENT, PCC, 9"	584 SY	\$105.00	\$61,320.00	\$99.00	\$57,816.00	\$126.00	\$73,584.00	\$120.00	\$70,080.00
53	CURB AND GUTTER, 2.5 FT., 7 IN.	2964 LF	\$35.00	\$103,740.00	\$36.00	\$106,704.00	\$42.00	\$124,488.00	\$33.00	\$97,812.00
54	CURB AND GUTTER, 2.5 FT., 9 IN.	165 LF	\$6.930.00	\$6,930.00	\$42.00	\$6,930.00	\$56.00	\$9,240.00	\$34.00	\$5,610.00
55	CURB AND GUTTER, 2.5 FT., 11 IN.	1437 LF	\$50.00	\$71,850.00	\$48.00	\$68,976.00	\$60.00	\$86,220.00	\$41.00	\$58,917.00
56	PAVEMENT, HMA, HT, 1/2" MIX, PG 58-28H	239 TON	\$105.00	\$25,095.00	\$132.00	\$31,548.00	\$98.00	\$23,422.00	\$115.00	\$27,485.00
57	PAVEMENT, HMA, HT, 3/4" MIX, PG 58-28H	1064 TON	\$105.00	\$111,720.00	\$132.00	\$140,448.00	\$98.00	\$104,272.00	\$114.00	\$121,296.00
58	PAVEMENT, HMA, ST, 1/2" MIX, PG 58-28H	171 TON	\$100.00	\$17,100.00	\$150.00	\$25,650.00	\$95.00	\$16,245.00	\$130.00	\$22,230.00
59	PAVEMENT, HMA, ST, 3/4" MIX, PG 58-28H	203 TON	\$100.00	\$20,300.00	\$138.00	\$28,014.00	\$95.00	\$19,285.00	\$124.00	\$25,172.00
60	PAVEMENT, HMA, ST, 1" MIX, PG 58-28H	360 TON	\$100.00	\$36,000.00	\$138.00	\$49,680.00	\$95.00	\$34,200.00	\$117.00	\$42,120.00
61	PAVEMENT, HMA, ST, 1/2" MIX, PG 58-28S	1228 TON	\$95.00	\$116,660.00	\$120.00	\$147,360.00	\$93.00	\$114,204.00	\$101.00	\$124,028.00
62	PAVEMENT, HMA, ST, 1" MIX, PG 58-28S	1453 TON	\$95.00	\$138,035.00	\$120.00	\$174,360.00	\$93.00	\$135,129.00	\$107.00	\$155,471.00
63	REMOVAL OF SIDEWALK	1132 SY	\$10.00	\$11,320.00	\$14.00	\$15,848.00	\$15.00	\$16,980.00	\$12.00	\$13,584.00
64	REMOVAL OF DRIVEWAY	883.7 SY	\$10.00	\$8,837.00	\$15.00	\$13,255.50	\$15.00	\$13,255.50	\$12.00	\$10,604.40
65	SIDEWALK, PCC, 4"	284 SY	\$60.00	\$17,040.00	\$71.50	\$20,306.00	\$82.00	\$23,288.00	\$103.00	\$29,252.00
66	SIDEWALK, PCC, 5", CLASS A	385 SY	\$80.00	\$30,800.00	\$77.00	\$29,645.00	\$96.00	\$36,960.00	\$103.00	\$39,655.00
67	SIDEWALK, PCC, 6"	220 SY	\$80.00	\$17,600.00	\$82.50	\$18,150.00	\$118.00	\$25,960.00	\$123.00	\$27,060.00
68	DETECTABLE WARNING	446 SF	\$60.00	\$26,760.00	\$71.50	\$31,889.00	\$55.00	\$24,530.00	\$61.00	\$27,206.00
69	DRIVEWAY, PAVED, PCC, 6"	513 SY	\$60.00	\$30,780.00	\$77.00	\$39,501.00	\$82.00	\$42,066.00	\$103.00	\$52,839.00
70	DRIVEWAY, PAVED, PCC, 7"	326.6 SY	\$80.00	\$26,128.00	\$82.50	\$26,944.50	\$92.00	\$30,047.20	\$113.00	\$36,905.80
71	FULL DEPTH PATCH, COMPOSITE	20 SY	\$200.00	\$4,000.00	\$342.00	\$6,840.00	\$550.00	\$11,000.00	\$358.00	\$7,160.00
72	MILLING	1434.5 SY	\$6.00	\$8,607.00	\$18.00	\$25,821.00	\$6.00	\$8,607.00	\$15.00	\$21,517.50
73	PAVEMENT REMOVAL	14187 SY	\$15.00	\$212,805.00	\$14.00	\$198,618.00	\$17.00	\$241,179.00	\$18.00	\$255,366.00
74	INDUCTIVE LOOP VEHICLE DETECTOR	6 EA	\$2,000.00	\$12,000.00	\$2,100.00	\$12,600.00	\$1,500.00	\$9,000.00	\$1,545.00	\$9,270.00
75	HANDHOLE REMOVAL AND RELOCATION	1 EA	\$4,000.00	\$4,000.00	\$4,200.00	\$4,200.00	\$3,000.00	\$3,000.00	\$3,090.00	\$3,090.00
76	PAINTED PAVEMENT MARKINGS, WATERBORNE (TEMPORARY)	41 STA	\$60.00	\$2,460.00	\$105.00	\$4,305.00	\$75.00	\$3,075.00	\$77.00	\$3,157.00
77	PAINTED PAVEMENT MARKINGS, DURABLE, EPOXY	90 STA	\$90.00	\$8,100.00	\$280.00	\$25,200.00	\$200.00	\$18,000.00	\$206.00	\$18,540.00
78	WET, RETROREFLECTIVE REMOVABLE TAPE MARKINGS	20 STA	\$140.00	\$2,800.00	\$175.00	\$3,500.00	\$125.00	\$2,500.00	\$128.00	\$2,560.00
79	PAINTED SYMBOLS AND LEGENDS, DURABLE, EPOXY	44 EA	\$250.00	\$11,000.00	\$490.00	\$21,560.00	\$350.00	\$15,400.00	\$360.00	\$15,840.00
80	PAVEMENT MARKINGS REMOVED	79 STA	\$60.00	\$4,740.00	\$112.00	\$8,848.00	\$80.00	\$6,320.00	\$82.00	\$6,478.00
81	TEMPORARY TRAFFIC CONTROL	1 LS	\$100,000.00	\$100,000.00	\$82,250.00	\$82,250.00	\$68,750.00	\$68,750.00	\$61,800.00	\$61,800.00
82	PORTABLE DYNAMIC MESSAGE SIGN	84 CDAY	\$100.00	\$8,400.00	\$140.00	\$11,760.00	\$100.00	\$8,400.00	\$103.00	\$8,652.00
83	SIGNS, CONSTRUCTION	200 SF	\$30.00	\$6,000.00	\$42.00	\$8,400.00	\$30.00	\$6,000.00	\$30.00	\$6,000.00
84	TYPE A SIGN, SHEET ALUMINUM	11 EA	\$750.00	\$8,250.00	\$385.00	\$4,235.00	\$300.00	\$3,300.00	\$283.00	\$3,113.00
85	REMOVE, STORE, REINSTALL SIGN ON NEW POST	10 EA	\$500.00	\$5,000.00	\$490.00	\$4,900.00	\$350.00	\$3,500.00	\$360.00	\$3,600.00
86	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	0.9 AC	\$8,000.00	\$7,200.00	\$11,200.00	\$10,080.00	\$10,000.00	\$9,000.00	\$8,240.00	\$7,416.00
87	TEMPORARY HYDRAULIC SEEDING AND MULCHING, TYPE 5	0.9 AC	\$8,000.00	\$7,200.00	\$5,600.00	\$5,040.00	\$6,000.00	\$5,400.00	\$4,120.00	\$3,708.00
88	SWPPP PREPARATION AND MAINTENANCE	1 LS	\$7,500.00	\$7,500.00	\$14,000.00	\$14,000.00	\$9,600.00	\$9,600.00	\$10,300.00	\$10,300.00
89	FILTER SOCK, 12"	6500 LF	\$3.00	\$19,500.00	\$3.00	\$19,500.00	\$2.50	\$16,250.00	\$2.50	\$16,250.00
90	FILTER SOCKS, REMOVAL	6500 LF	\$1.00	\$6,500.00	\$1.00	\$6,500.00	\$0.50	\$3,250.00	\$50.00	\$325,000.00
91	EROSION CONTROL MULCHING, HYDROMULCHING	0.9 AC	\$4,000.00	\$3,600.00	\$4,200.00	\$3,780.00	\$4,000.00	\$3,600.00	\$3,090.00	\$2,781.00
92	INLET PROTECTION DEVICE	77 EA	\$150.00	\$11,550.00	\$273.00	\$21,021.00	\$200.00	\$15,400.00	\$200.00	\$15,400.00
93	INLET PROTECTION DEVICE, MAINTENANCE	154 EA	\$20.00	\$3,080.00	\$56.00	\$8,624.00	\$25.00	\$3,850.00	\$41.00	\$6,314.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
94	TREE PROTECTION FENCE	500 LF	\$4.00	\$2,000.00	\$5.00	\$2,500.00	\$5.00	\$2,500.00	\$4.00	\$2,000.00
95	TREE TRUNK PROTECTION	39 EA	\$200.00	\$7,800.00	\$420.00	\$16,380.00	\$300.00	\$11,700.00	\$309.00	\$12,051.00
96	TREE TRIMMING	20 EA	\$750.00	\$15,000.00	\$350.00	\$7,000.00	\$750.00	\$15,000.00	\$800.00	\$16,000.00
97	REMOVE AND RESTACK MODULAR BLOCK RETAINING WALL	250 SF	\$25.00	\$6,250.00	\$56.00	\$14,000.00	\$42.00	\$10,500.00	\$41.00	\$10,250.00
98	CONSTRUCTION SURVEY	1 LS	\$80,000.00	\$80,000.00	\$51,100.00	\$51,100.00	\$36,500.00	\$36,500.00	\$41,200.00	\$41,200.00
99	MOBILIZATION	1 LS	\$600,000.00	\$600,000.00	\$112,372.00	\$112,372.00	\$1,364,000.00	\$1,364,000.00	\$483,000.00	\$483,000.00
100	MAINTENANCE OF POSTAL SERVICE	1 LS	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00
101	MAINTENANCE OF SOLID WASTE COLLECTION	1 LS	\$10,000.00	\$10,000.00	\$14,000.00	\$14,000.00	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00
102	CONCRETE WASHOUT	1 LS	\$8,000.00	\$8,000.00	\$2,800.00	\$2,800.00	\$10,000.00	\$10,000.00	\$1,000.00	\$1,000.00
103	EXPLORATORY EXCAVATION	10 EA	\$500.00	\$5,000.00	\$1,400.00	\$14,000.00	\$600.00	\$6,000.00	\$700.00	\$7,000.00
200	WATER MAIN, TRENCHED, DUCTILE IRON (DI), RESTRAINT JOINT, 8 IN.	300 LF	\$120.00	\$36,000.00	\$322.00	\$96,600.00	\$195.00	\$58,500.00	\$412.00	\$123,600.00
201	WATER MAIN, TRENCHED, DUCTILE IRON (DI), RESTRAINT JOINT, 12 IN.	435 LF	\$165.00	\$71,775.00	\$336.00	\$146,160.00	\$250.00	\$108,750.00	\$435.00	\$189,225.00
202	FITTINGS BY WEIGHT, DUCTILE IRON	2738 LB	\$12.00	\$32,856.00	\$21.00	\$57,498.00	\$18.00	\$49,284.00	\$17.00	\$46,546.00
203	VALVE, GATE, DIP, 8 IN.	5 EA	\$2,500.00	\$12,500.00	\$3,360.00	\$16,800.00	\$5,000.00	\$25,000.00	\$2,972.00	\$14,860.00
204	VALVE, GATE, DIP, 12 IN.	2 EA	\$3,500.00	\$7,000.00	\$5,285.00	\$10,570.00	\$10,000.00	\$20,000.00	\$4,398.00	\$8,796.00
205	FIRE HYDRANT ASSEMBLY	3 EA	\$7,500.00	\$22,500.00	\$10,465.00	\$31,395.00	\$12,000.00	\$36,000.00	\$11,041.00	\$33,123.00
206	32 LB MADNESUIM ANODE	17 EA	\$600.00	\$10,200.00	\$840.00	\$14,280.00	\$1,000.00	\$17,000.00	\$453.00	\$7,701.00
207	CATHODIC PROTECTION TEST STATION	1 EA	\$1,000.00	\$1,000.00	\$1,330.00	\$1,330.00	\$2,500.00	\$2,500.00	\$10,815.00	\$10,815.00
TOTAL CONSTRUCTION COST				\$5,400,000.00		\$6,686,000.00		\$7,126,387.70		\$7,422,640.70
PERCENT OF ENGINEER'S ESTIMATE						+23.81%		+31.97%		+37.46%
						Low				