

DATE August 23, 2010

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON 2010 STORM SEWER REPAIR CONTRACT 1; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS THE UNDERGROUND COMPANY, LTD., DUANE BURKHARDT, PRESIDENT, \$678,283.75

WHEREAS, on July 26, 2010, under Roll Call No. 10-1191, plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

2010 Storm Sewer Repair Contract 1, 08-2010-005

The improvement includes construction of new storm sewers to repair deteriorated infrastructure and drainage problems at 7 various locations in Des Moines: 501 Porter Avenue, Glendale Cemetery, 3420 Fairlane Drive, Beaverdale Trail Creek, 28th Street & Grand Avenue, I-235 Storm Sewer Separation, and SE 2nd Court North of Livingston Avenue. This work includes construction of storm sewers, manholes, intakes, grading, restoration of pavement & landscaping, and other incidental items; in accordance with the contract documents including Plan File Nos. 522-001/064

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.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the hearing on the plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost for said improvement.

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

The Underground Company, Ltd.	Carlisle, IA
Reilly Construction Co., Inc.	Ossian, IA
Van Hauen & Associates, Inc.	Grimes, IA
H & W Contracting LLC	Sioux Falls, SD

★ **Roll Call Number**

**Agenda Item Number**

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which were received and opened at a public meeting presided over by the Jurisdictional Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on August 10, 2010. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Jurisdictional Engineer has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by The Underground Company, Ltd., Duane Burkhardt, President, 12245 Dakota Street, Carlisle, IA, 50047 in the amount of \$678,283.75, 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.

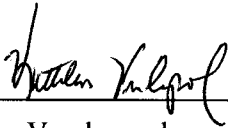
BE IT FURTHER RESOLVED: That the Jurisdictional Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Jurisdictional Engineer is directed to thereafter present said 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.

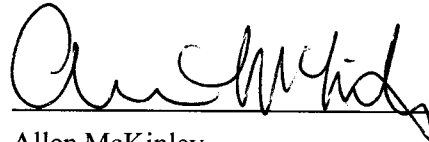
(City Council Communication Number 10-523 attached.)

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

FORM APPROVED:


FUNDS AVAILABLE





Kathleen Vanderpool  
Deputy City Attorney

Allen McKinley  
Des Moines Finance Director

 Funding Source: 2010-2011 CIP, Page Storm-4, City-wide Storm Water Utility Projects, STE057, Being: \$530,137.15 in Storm Water Utility Funds from STE057, and \$148,146.60 in Sanitary Sewer Funds for the work on the Beaverdale Trail Creek and 28th Street & Grand Avenue from SAE054, City-wide Sanitary Sewers, Page Sanitary-5

★ **Roll Call Number**

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45

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COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
COLEMAN				
GRIESS				
HENSLEY				
MAHAFFEY				
MEYER				
MOORE				
TOTAL				

MOTION CARRIED APPROVED

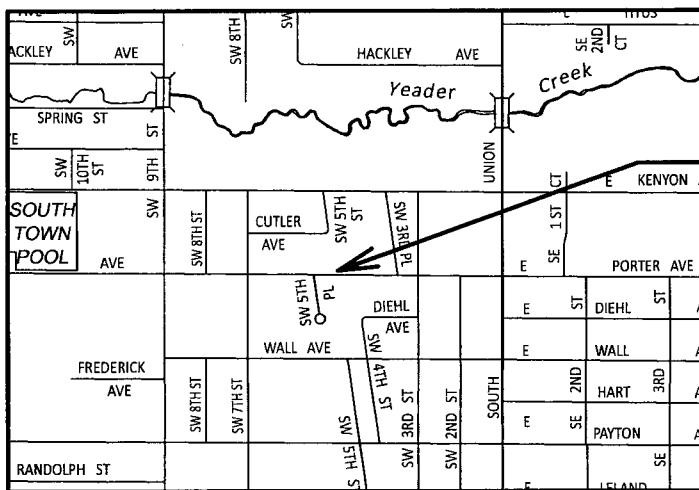
\_\_\_\_\_  
Mayor

I, Diane Rauh, 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.

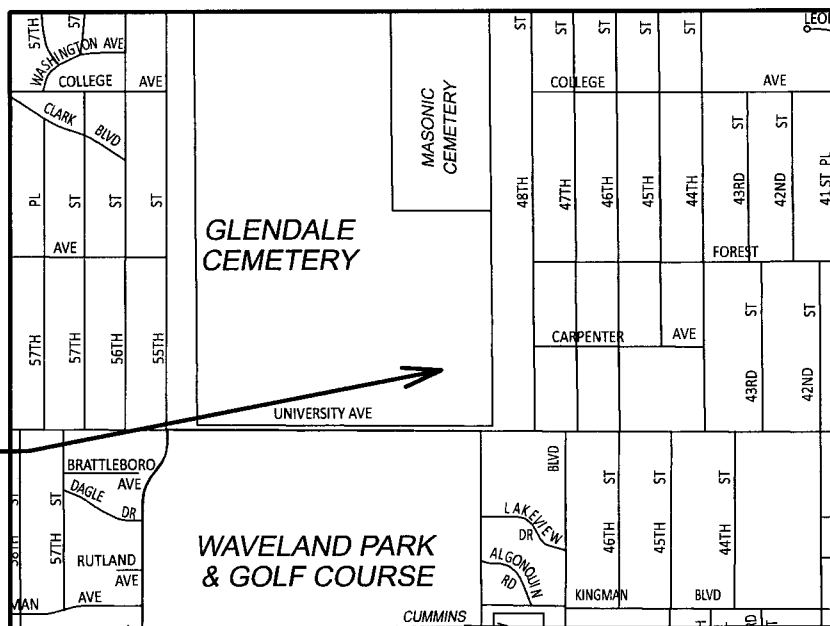
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

\_\_\_\_\_  
City Clerk

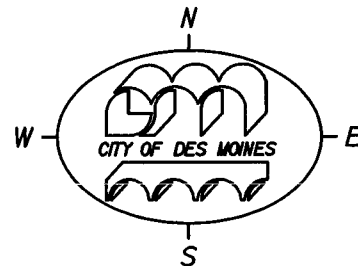
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501 PORTER AVE



GLENDALE CEMETERY



T:\ENGR\Design\08\2010\005\Drawings\Loc\_Map\LOC\_MAP.DGN 21-JUN-2010 15:43

2010 STORM SEWER REPAIR CONTRACT 1  
 ACTIVITY ID 08-2010-005  
 PAGE 1 OF 3

TABULATED BY: *V. Erickson* APPROVED BY: *John F. Mark*  
CHECKED BY: *Jerry Walker*

**CONTRACTOR'S BID TABULATION**  
**PROJECT: 2010 STORM SEWER REPAIR CONTRACT 1**

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT		AMOUNT		THE UNDERGROUND COMPANY, LTD. CARLISLE, IA		REILLY CONSTRUCTION COMPANY, INC. OSSIAN, IA		VAN HAUEN & ASSOCIATES, INC. GRIMES, IA	
			PRICE	AMOUNT	UNIT	PRICE	AMOUNT	UNIT	PRICE	AMOUNT	UNIT	PRICE
1	Cleaning & Grubbing	0.25 ACRE	\$33,000.00	\$8,250.00	\$1.00	\$0.25	\$47,000.00	\$11,750.00	\$35,000.00	\$8,750.00		
2	Cleaning & Grubbing	286 DI	\$20.00	\$5,720.00	\$35.00	\$10,010.00	\$30.00	\$8,580.00	\$35.00	\$10,010.00		
3	Earthwork - 501 Porter	1 LS	\$12,000.00	\$12,000.00	\$10,000.00	\$10,000.00	\$18,000.00	\$18,000.00	\$15,000.00	\$15,000.00		
4	Earthwork - Fairlane Drive	1 LS	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00	\$1,800.00	\$1,800.00	\$2,000.00	\$2,000.00		
5	Earthwork - SE 2nd North of Livingston	1 LS	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00	\$3,500.00	\$3,500.00		
6	Removal of Sidewalk	54 SY	\$10.00	\$540.00	\$10.00	\$540.00	\$10.00	\$540.00	\$7.00	\$378.00		
7	Removal of Structure	15 EACH	\$500.00	\$7,500.00	\$100.00	\$1,500.00	\$400.00	\$6,000.00	\$500.00	\$7,500.00		
8	Removal of Storm Sewer	446 LF	\$15.00	\$6,690.00	\$15.00	\$6,690.00	\$12.50	\$5,575.00	\$5.00	\$2,230.00		
9	Removal of Pavement	1119 SY	\$9.00	\$10,071.00	\$10.00	\$11,190.00	\$10.00	\$11,190.00	\$15.00	\$16,785.00		
10	Removal of Chain Link Fence	155 LF	\$3.00	\$465.00	\$4.00	\$620.00	\$5.00	\$775.00	\$3.00	\$465.00		
11	Removal of Curb	138 LF	\$8.00	\$1,104.00	\$5.00	\$690.00	\$8.00	\$1,104.00	\$3.00	\$414.00		
12	Flowable Mortar	153 CY	\$170.00	\$26,010.00	\$75.00	\$11,475.00	\$160.00	\$24,480.00	\$110.00	\$16,830.00		
13	Subdrain, Type 1, 6"	378 LF	\$15.00	\$5,670.00	\$18.00	\$6,804.00	\$12.50	\$4,725.00	\$17.00	\$6,426.00		
14	Storm Sewer, 15" RCP, Class III	644 LF	\$70.00	\$45,080.00	\$53.00	\$34,132.00	\$55.00	\$35,420.00	\$50.00	\$32,200.00		
15	Storm Sewer, 15" RCP, Class III, with wrapped joints	50 LF	\$75.00	\$3,750.00	\$56.00	\$2,800.00	\$55.00	\$2,750.00	\$50.00	\$2,500.00		
16	Storm Sewer, 18" RCP, Class III	719 LF	\$85.00	\$61,115.00	\$54.00	\$38,826.00	\$60.00	\$43,140.00	\$54.00	\$38,826.00		
17	Storm Sewer, 18" RCP, Class III, with wrapped joints	378 LF	\$95.00	\$35,910.00	\$62.00	\$23,436.00	\$70.00	\$26,460.00	\$56.00	\$21,168.00		
18	Storm Sewer, 24" RCP, Class III	342 LF	\$125.00	\$42,750.00	\$74.00	\$25,308.00	\$75.00	\$25,650.00	\$80.00	\$27,360.00		
19	Storm Sewer, 30" RCP, Class III	412 LF	\$150.00	\$61,800.00	\$100.00	\$41,200.00	\$95.00	\$39,140.00	\$100.00	\$41,200.00		
20	Storm Sewer, 72" RCP, Class III	24 LF	\$350.00	\$8,400.00	\$286.00	\$6,864.00	\$325.00	\$7,800.00	\$350.00	\$8,400.00		
21	Storm Sewer, 84" RCP, Class III	57 LF	\$400.00	\$22,800.00	\$407.00	\$23,199.00	\$362.50	\$20,662.50	\$470.00	\$26,790.00		
22	Storm Sewer, 18" RCP, Class V	125 LF	\$90.00	\$11,250.00	\$98.00	\$12,250.00	\$65.00	\$8,125.00	\$100.00	\$12,500.00		
23	Apron, 18" RCP, with footing	1 EACH	\$800.00	\$800.00	\$1,100.00	\$1,100.00	\$900.00	\$900.00	\$2,500.00	\$2,500.00		
24	Apron, 84" RCP, with footing	1 EACH	\$3,500.00	\$3,500.00	\$6,400.00	\$6,400.00	\$4,500.00	\$4,500.00	\$9,500.00	\$9,500.00		
25	Manhole, SW-402, 40" X 40"	5 EACH	\$4,000.00	\$20,000.00	\$4,200.00	\$21,000.00	\$5,500.00	\$27,500.00	\$5,400.00	\$27,000.00		
26	Manhole, SW-402, 48" X 48"	1 EACH	\$4,500.00	\$4,500.00	\$4,200.00	\$4,200.00	\$5,500.00	\$5,500.00	\$6,000.00	\$6,000.00		
27	Manhole, SW-402, 60" X 60"	2 EACH	\$5,000.00	\$10,000.00	\$6,000.00	\$12,000.00	\$6,225.00	\$12,450.00	\$6,500.00	\$13,000.00		
28	Manhole, SW-403, 48" X 48"	1 EACH	\$7,250.00	\$7,250.00	\$6,300.00	\$6,300.00	\$8,775.00	\$8,775.00	\$6,200.00	\$6,200.00		
29	Manhole, SW-404, 60" X 60"	2 EACH	\$15,000.00	\$30,000.00	\$10,200.00	\$20,400.00	\$13,750.00	\$27,500.00	\$20,000.00	\$40,000.00		
30	Manhole, SW-404, 120" X 120"	1 EACH	\$30,000.00	\$30,000.00	\$23,000.00	\$23,000.00	\$32,750.00	\$32,750.00	\$23,000.00	\$23,000.00		
31	Intake Modification	1 EACH	\$250.00	\$250.00	\$1,000.00	\$1,000.00	\$250.00	\$250.00	\$750.00	\$750.00		
32	Intake, SW-501	2 EACH	\$2,750.00	\$5,500.00	\$1,600.00	\$3,200.00	\$2,925.00	\$5,850.00	\$3,200.00	\$6,400.00		
33	Intake, SW-507	1 EACH	\$3,500.00	\$3,500.00	\$4,400.00	\$4,400.00	\$3,150.00	\$3,150.00	\$5,600.00	\$5,600.00		
34	Intake, SW-511	5 EACH	\$2,750.00	\$13,750.00	\$1,700.00	\$8,500.00	\$2,950.00	\$14,750.00	\$3,200.00	\$16,000.00		
35	Intake, SW-511, Modified, 36" X 60"	1 EACH	\$3,500.00	\$3,500.00	\$2,300.00	\$2,300.00	\$3,150.00	\$3,150.00	\$4,000.00	\$4,000.00		
36	Intake, SW-513, 42" X 42"	2 EACH	\$4,000.00	\$8,000.00	\$3,600.00	\$7,200.00	\$4,100.00	\$8,200.00	\$5,500.00	\$11,000.00		
37	Intake, SW-513, 48" X 48"	3 EACH	\$4,500.00	\$13,500.00	\$3,500.00	\$10,500.00	\$3,750.00	\$11,250.00	\$6,000.00	\$18,000.00		
38	Gatewell Structure	1 LS	\$37,000.00	\$37,000.00	\$26,000.00	\$26,000.00	\$37,500.00	\$37,500.00	\$28,000.00	\$28,000.00		
39	Steel Sheet Pile	1 LS	\$15,000.00	\$15,000.00	\$41,000.00	\$41,000.00	\$17,000.00	\$17,000.00	\$16,000.00	\$16,000.00		
40	Gabion Baskets	100 CY	\$275.00	\$27,500.00	\$593.00	\$59,300.00	\$300.00	\$30,000.00	\$280.00	\$28,000.00		
41	Rip Rap, Class D	105 TON	\$45.00	\$4,725.00	\$46.00	\$4,830.00	\$60.00	\$6,300.00	\$55.00	\$5,775.00		

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ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
42	Sewer Pipe Support	2 EACH	\$750.00	\$1,500.00	\$700.00	\$1,400.00	\$650.00	\$1,300.00	\$750.00	\$1,500.00
43	Surfacing, Class A Crushed Stone	160 TON	\$25.00	\$4,000.00	\$25.00	\$4,000.00	\$30.00	\$4,800.00	\$24.00	\$3,840.00
44	Pavement Patch, 8" PCC with 2" HMA	123 SY	\$90.00	\$11,070.00	\$100.00	\$12,300.00	\$100.00	\$12,300.00	\$180.00	\$22,140.00
45	Pavement, 7" PCC	49 SY	\$65.00	\$3,185.00	\$75.00	\$3,675.00	\$75.00	\$3,675.00	\$110.00	\$5,390.00
46	Pavement, 6" PCC	744 SY	\$55.00	\$40,920.00	\$40.00	\$29,760.00	\$60.00	\$44,640.00	\$55.00	\$40,920.00
47	Pavement, 6" HMA	140 SY	\$55.00	\$7,700.00	\$53.00	\$7,420.00	\$60.00	\$8,400.00	\$55.00	\$7,700.00
48	Sidewalk, 4"	54 SY	\$40.00	\$2,160.00	\$45.00	\$2,430.00	\$45.00	\$2,430.00	\$70.00	\$3,780.00
49	Curb, PCC	138 LF	\$25.00	\$3,450.00	\$20.00	\$2,760.00	\$30.00	\$4,140.00	\$40.00	\$5,520.00
50	Chain Link Fence, 48"	30 LF	\$15.00	\$450.00	\$12.50	\$375.00	\$13.25	\$397.50	\$13.00	\$390.00
51	Chain Link Fence, 66"	125 LF	\$25.00	\$3,125.00	\$14.75	\$1,843.75	\$15.50	\$1,937.50	\$15.00	\$1,875.00
52	Silt Fence Installation	765 LF	\$3.00	\$2,295.00	\$1.75	\$1,338.75	\$2.00	\$1,530.00	\$2.00	\$1,530.00
53	Silt Fence Removal	765 LF	\$1.50	\$1,147.50	\$0.20	\$153.00	\$0.25	\$191.25	\$0.20	\$153.00
54	Topsoil, Furnish & Place	757 CY	\$20.00	\$15,140.00	\$1.00	\$757.00	\$16.00	\$12,112.00	\$12.00	\$9,084.00
55	Sod	523 SQ	\$40.00	\$20,920.00	\$34.00	\$17,782.00	\$35.50	\$18,566.50	\$35.00	\$18,305.00
56	Seed & Mulch	275 SQ	\$15.00	\$4,125.00	\$8.00	\$2,200.00	\$9.00	\$2,475.00	\$8.00	\$2,200.00
57	Tree Protection	1 LS	\$750.00	\$750.00	\$1,300.00	\$1,300.00	\$1,450.00	\$1,450.00	\$1,300.00	\$1,300.00
58	Tree Protection Fence	1900 LF	\$5.00	\$9,500.00	\$2.00	\$3,800.00	\$2.00	\$3,800.00	\$1.75	\$3,325.00
59	Traffic Control	1 LS	\$15,000.00	\$15,000.00	\$9,400.00	\$9,400.00	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00
60	Project Sign Small - Standard	3 EACH	\$175.00	\$525.00	\$75.00	\$225.00	\$100.00	\$300.00	\$100.00	\$300.00
61	Mobilization	1 LS	\$40,387.50	\$40,387.50	\$35,200.00	\$35,200.00	\$18,500.00	\$18,500.00	\$11,400.00	\$11,400.00
				\$810,000.00		\$676,283.75		\$717,886.25		\$719,609.00
TOTAL CONSTRUCTION COST										
PERCENT OF ENGINEER'S ESTIMATE										
					-16.26%			-11.37%		-11.16%
					Low					

TABULATED BY: Z. Erickson  
CHECKED BY: \_\_\_\_\_

APPROVED BY: *John H. McKee*

**CONTRACTOR'S BID TABULATION**

PROJECT: 2010 STORM SEWER REPAIR CONTRACT 1

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	AMOUNT	H & W		CONTRACTOR			
						CONTRACTING, LLC. SIOUX FALLS, SD	BID SECURITY 10% BID BOND BID PRICE	CITY	BID SECURITY BID PRICE	CITY	BID PRICE
						UNIT	PRICE	AMOUNT	UNIT	PRICE	AMOUNT
1	Clearing & Grubbing	0.25 ACRE		\$33,000.00	\$8,250.00		\$34,000.00	\$8,500.00			
2	Clearing & Grubbing	286 DI		\$20.00	\$5,720.00		\$22.00	\$6,292.00			
3	Earthwork - 501 Porter	1 LS		\$12,000.00	\$12,000.00		\$18,000.00	\$18,000.00			
4	Earthwork - Fairlane Drive	1 LS		\$3,500.00	\$3,500.00		\$3,400.00	\$3,400.00			
5	Earthwork - SE 2nd North of Livingston	1 LS		\$4,000.00	\$4,000.00		\$4,500.00	\$4,500.00			
6	Removal of Sidewalk	54 SY		\$10.00	\$540.00		\$5.00	\$270.00			
7	Removal of Structure	15 EACH		\$500.00	\$7,500.00		\$500.00	\$7,500.00			
8	Removal of Storm Sewer	446 LF		\$15.00	\$6,690.00		\$15.00	\$6,690.00			
9	Removal of Pavement	1119 SY		\$9.00	\$10,071.00		\$9.25	\$10,350.75			
10	Removal of Chain Link Fence	155 LF		\$3.00	\$465.00		\$3.75	\$581.25			
11	Removal of Curb	138 LF		\$8.00	\$1,104.00		\$4.50	\$621.00			
12	Flowable Mortar	153 CY		\$170.00	\$26,010.00		\$195.00	\$29,835.00			
13	Subdrain, Type 1, 6"	378 LF		\$15.00	\$5,670.00		\$21.00	\$7,938.00			
14	Storm Sewer, 15" RCP, Class III	644 LF		\$70.00	\$45,080.00		\$113.00	\$72,772.00			
15	Storm Sewer, 15" RCP, Class III, with wrapped joints	50 LF		\$75.00	\$3,750.00		\$95.00	\$4,750.00			
16	Storm Sewer, 18" RCP, Class III	719 LF		\$85.00	\$61,115.00		\$115.00	\$82,685.00			
17	Storm Sewer, 24" RCP, Class III, with wrapped joints	378 LF		\$95.00	\$35,910.00		\$104.00	\$39,312.00			
18	Storm Sewer, 30" RCP, Class III	342 LF		\$125.00	\$42,750.00		\$104.00	\$35,568.00			
19	Storm Sewer, 36" RCP, Class III	412 LF		\$150.00	\$61,800.00		\$132.00	\$54,384.00			
20	Storm Sewer, 72" RCP, Class III	24 LF		\$350.00	\$8,400.00		\$516.00	\$12,384.00			
21	Storm Sewer, 84" RCP, Class III	57 LF		\$400.00	\$22,800.00		\$582.00	\$33,174.00			
22	Storm Sewer, 18" RCP, Class V	125 LF		\$90.00	\$11,250.00		\$145.00	\$18,125.00			
23	Apron, 18" RCP, with footing	1 EACH		\$800.00	\$800.00		\$2,000.00	\$2,000.00			
24	Apron, 84" RCP, with footing	1 EACH		\$3,500.00	\$3,500.00		\$8,000.00	\$8,000.00			
25	Manhole, SW-402, 40" X 40"	5 EACH		\$4,000.00	\$20,000.00		\$4,500.00	\$22,500.00			
26	Manhole, SW-402, 48" X 48"	1 EACH		\$4,500.00	\$4,500.00		\$5,000.00	\$5,000.00			
27	Manhole, SW-402, 60" X 60"	2 EACH		\$5,000.00	\$10,000.00		\$5,800.00	\$11,600.00			
28	Manhole, SW-403, 48" X 48"	1 EACH		\$7,250.00	\$7,250.00		\$8,300.00	\$8,300.00			
29	Manhole, SW-404, 60" X 60"	2 EACH		\$15,000.00	\$30,000.00		\$21,500.00	\$43,000.00			
30	Manhole, SW-404, 120" X 120"	1 EACH		\$30,000.00	\$30,000.00		\$50,000.00	\$50,000.00			
31	Intake Modification	1 EACH		\$250.00	\$250.00		\$400.00	\$400.00			
32	Intake, SW-501	2 EACH		\$2,750.00	\$5,500.00		\$4,000.00	\$8,000.00			
33	Intake, SW-507	1 EACH		\$3,500.00	\$3,500.00		\$5,300.00	\$5,300.00			
34	Intake, SW-511	5 EACH		\$2,750.00	\$13,750.00		\$4,000.00	\$20,000.00			
35	Intake, SW-511, Modified, 36" X 60"	1 EACH		\$3,500.00	\$3,500.00		\$5,300.00	\$5,300.00			
36	Intake, SW-513, 42" X 42"	2 EACH		\$4,000.00	\$8,000.00		\$6,000.00	\$12,000.00			
37	Intake, SW-513, 48" X 48"	3 EACH		\$4,500.00	\$13,500.00		\$6,500.00	\$19,500.00			
38	Gatewell Structure	1 LS		\$37,000.00	\$37,000.00		\$68,000.00	\$68,000.00			
39	Steel Sheet Pile	1 LS		\$15,000.00	\$15,000.00		\$21,000.00	\$21,000.00			
40	Gabion Baskets	100 CY		\$275.00	\$27,500.00		\$375.00	\$37,500.00			
41	Rip Rap, Class D	105 TON		\$45.00	\$4,725.00		\$45.00	\$4,725.00			

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE		AMOUNT		UNIT PRICE		AMOUNT	
			UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT		
42	Sewer Pipe Support	2 EACH	\$750.00	\$1,500.00	\$1,200.00	\$2,400.00				
43	Surfacing, Class A Crushed Stone	160 TON	\$25.00	\$4,000.00	\$20.00	\$3,200.00				
44	Pavement Patch, 8" PCC with 2" HMA	123 SY	\$90.00	\$11,070.00	\$105.00	\$12,915.00				
45	Pavement, 7" PCC	49 SY	\$65.00	\$3,185.00	\$70.00	\$3,430.00				
46	Pavement, 6" PCC	744 SY	\$55.00	\$40,920.00	\$60.00	\$44,640.00				
47	Pavement, 6" HMA	140 SY	\$55.00	\$7,700.00	\$55.00	\$7,700.00				
48	Sidewalk, 4"	54 SY	\$40.00	\$2,160.00	\$45.00	\$2,430.00				
49	Curb, PCC	138 LF	\$25.00	\$3,450.00	\$30.00	\$4,140.00				
50	Chain Link Fence, 48"	30 LF	\$15.00	\$450.00	\$12.50	\$375.00				
51	Chain Link Fence, 66"	125 LF	\$25.00	\$3,125.00	\$14.75	\$1,843.75				
52	Silt Fence Installation	765 LF	\$3.00	\$2,295.00	\$2.00	\$1,530.00				
53	Silt Fence Removal	765 LF	\$1.50	\$1,147.50	\$0.20	\$153.00				
54	Topsoil, Furnish & Place	757 CY	\$20.00	\$15,140.00	\$25.00	\$18,925.00				
55	Sod	523 SQ	\$40.00	\$20,920.00	\$34.00	\$17,782.00				
56	Seed & Mulch	275 SQ	\$15.00	\$4,125.00	\$8.00	\$2,200.00				
57	Tree Protection	1 LS	\$750.00	\$750.00	\$1,300.00	\$1,300.00				
58	Tree Protection Fence	1900 LF	\$5.00	\$9,500.00	\$2.00	\$3,800.00				
59	Traffic Control	1 LS	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00				
60	Project Sign Small - Standard	3 EACH	\$175.00	\$525.00	\$75.00	\$225.00				
61	Mobilization	1 LS	\$40,387.50	\$40,387.50	\$100,000.00	\$100,000.00				
				\$810,000.00		\$1,048,745.75				
										+29.47%

TOTAL CONSTRUCTION COST  
PERCENT OF ENGINEER'S ESTIMATE