



Roll Call Number

Agenda Item Number

69

DATE November 23, 2020

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON HAMILTON DRAIN STORM WATER IMPROVEMENTS PHASE 1; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS S. M. HENTGES & SONS INC., STEVEN M. HENTGES, PRESIDENT, \$2,160,616.00

WHEREAS, on October 5, 2020, under Roll Call No. 20-1550, 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:

Hamilton Drain Storm Water Improvements Phase 1, 082019012

The improvement includes construction of an underground storm water detention basin and an above ground detention basin, storm sewer, and parking lot reconstruction including: Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) paving, removals, earthwork, water main adjustments, storm sewers, intakes, traffic control, fencing, site furnishings, plantings, erosion control, and surface restoration; all in accordance with the contract documents, including Plan File Nos. 620-057/115, near the intersections of Amherst Street/E. Shawnee Avenue and E. Oak Park Avenue/E. 12th Street, 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.

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 Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and 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:

- S. M. Hentges & Sons Inc., Jordan, MN Low Bid
- On Track Construction, Nevada, IA
- Corell Contractor, Inc., West Des Moines, IA
- Vanderpool Construction, Inc., Indianola, IA
- Synergy Contracting, LLC, Bondurant, IA
- Minturn, Inc., Brooklyn, IA
- Jasper Construction Services, Inc., Newton, IA
- MPS Engineers, P.C. dba Kingston Services, P.C, Des Moines, IA



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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 October 20, 2020. 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 S. M. Hentges & Sons Inc., Steven M. Hentges, President, 650 Quaker Avenue, Suite 200, Jordan, MN, 55352 in the amount of \$2,160,616.00, 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.

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 necessary road closures for the Project. (Council Communication No. 20-519)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

s/ Kathleen Vanderpool

[Signature]

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

SLN Funding Source: 2020-2021 CIP, Page Storm – 10, Hamilton Drainage Area Improvements, SM133, Being: \$2,063,283.50 in Storm Water Utility funds, and the remaining \$97,332.50 from Des Moines Water Works



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

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.

_____ City Clerk

69

TABULATED BY: L.A. Vaughan APPROVED BY: Calvin Miller

CHECKED BY: Christopher Kull

CONTRACTOR'S BID TABULATION
PROJECT: HAMILTON DRAIN STORM WATER IMPROVEMENTS PHASE 1

-----ESTIMATE-----

SM Hentges & Sons, Inc. Jordan, MN		On Track Construction LLC Nevada, IA		Corell Contractor, Inc. West Des Moines, IA								
BID SECURITY 10% Bid Bond		BID SECURITY 10% Bid Bond		BID SECURITY 10% Bid Bond								
BID PRICE		BID PRICE		BID PRICE								
UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT							
0001	CLEARING AND GRUBBING	0.13 AC	\$10,000.00	\$1,300.00	\$13,000.00	\$75,000.00	\$9,750.00	\$8,080.00	\$1,050.40	\$80,400.00	\$10,452.00	
0002	TOPSOIL, ON-SITE	887 CY	\$15.00	\$13,305.00	\$28.00	\$24,836.00	\$10.10	\$8,958.70	\$26.00	\$23,062.00	\$26.00	\$23,062.00
0003	EXCAVATION, CLASS 10, WASTE	2100 CY	\$15.00	\$31,500.00	\$14.00	\$29,400.00	\$18.20	\$38,220.00	\$18.25	\$38,325.00	\$18.25	\$38,325.00
0004	SUBGRADE PREPARATION	3000 SY	\$3.00	\$9,000.00	\$1.50	\$4,500.00	\$6.10	\$18,300.00	\$12.00	\$36,000.00	\$12.00	\$36,000.00
0005	SUBBASE, MODIFIED	1000 CY	\$40.00	\$40,000.00	\$53.00	\$53,000.00	\$70.70	\$70,700.00	\$57.50	\$57,500.00	\$57.50	\$57,500.00
0006	REMOVAL OF KNOWN BOX CULVERT	75 LF	\$100.00	\$7,500.00	\$37.00	\$2,775.00	\$50.00	\$3,750.00	\$75.00	\$5,625.00	\$75.00	\$5,625.00
0007	SANITARY SEWER SERVICE RELOCATION	1 EA	\$2,500.00	\$2,500.00	\$2,400.00	\$2,400.00	\$4,292.00	\$4,292.00	\$8,800.00	\$8,800.00	\$8,800.00	\$8,800.00
0008	STORM SEWER, TRENCHED 15 IN	176 LF	\$75.00	\$13,200.00	\$77.00	\$13,552.00	\$100.00	\$17,600.00	\$163.00	\$28,688.00	\$163.00	\$28,688.00
0009	STORM SEWER, TRENCHED 18 IN	253 LF	\$80.00	\$20,240.00	\$83.00	\$20,999.00	\$102.00	\$25,806.00	\$141.00	\$35,673.00	\$141.00	\$35,673.00
0010	STORM SEWER, TRENCHED 24 IN	424 LF	\$85.00	\$36,040.00	\$98.00	\$41,552.00	\$110.00	\$46,640.00	\$143.00	\$60,632.00	\$143.00	\$60,632.00
0011	STORM SEWER, TRENCHED 48 IN	80 LF	\$220.00	\$17,600.00	\$317.00	\$25,360.00	\$483.00	\$38,640.00	\$208.00	\$16,640.00	\$208.00	\$16,640.00
0012	STORM SEWER, TRENCHED ARCHED PIPE 59"x36"	67 LF	\$250.00	\$16,750.00	\$235.00	\$15,745.00	\$265.00	\$17,755.00	\$370.00	\$24,790.00	\$370.00	\$24,790.00
0013	REMOVAL OF STORM SEWER	200 LF	\$25.00	\$5,000.00	\$29.00	\$5,800.00	\$25.00	\$5,000.00	\$83.00	\$16,600.00	\$83.00	\$16,600.00
0014	PIPE APRON, DR-202 59"x36"	1 EA	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$5,495.00	\$5,495.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
0015	MANHOLE, SW-402 (5X6)	1 EA	\$5,500.00	\$5,500.00	\$9,500.00	\$9,500.00	\$11,385.00	\$11,385.00	\$7,400.00	\$7,400.00	\$7,400.00	\$7,400.00
0016	MANHOLE, SW-401 (48")	7 EA	\$6,500.00	\$45,500.00	\$3,700.00	\$25,900.00	\$4,080.00	\$28,560.00	\$4,300.00	\$30,100.00	\$4,300.00	\$30,100.00
0017	MANHOLE, SW-401 (84")	1 EA	\$12,000.00	\$12,000.00	\$8,500.00	\$8,500.00	\$10,980.00	\$10,980.00	\$11,200.00	\$11,200.00	\$11,200.00	\$11,200.00
0018	MANHOLE, NYLOPLAST BASIN (30")	4 EA	\$3,000.00	\$12,000.00	\$4,300.00	\$17,200.00	\$3,665.00	\$14,660.00	\$3,600.00	\$14,400.00	\$3,600.00	\$14,400.00
0019	MANHOLE, HYDRODYNAMIC SEPARATOR	1 EA	\$20,000.00	\$20,000.00	\$67,000.00	\$67,000.00	\$110,685.00	\$110,685.00	\$98,600.00	\$98,600.00	\$98,600.00	\$98,600.00
0020	INTAKE, SW-501	11 EA	\$7,500.00	\$82,500.00	\$7,000.00	\$77,000.00	\$8,369.00	\$92,059.00	\$3,800.00	\$41,800.00	\$3,800.00	\$41,800.00
0021	INTAKE, SW-503	1 EA	\$7,500.00	\$7,500.00	\$8,600.00	\$8,600.00	\$9,484.00	\$9,484.00	\$6,300.00	\$6,300.00	\$6,300.00	\$6,300.00
0022	INTAKE, SW-505	3 EA	\$8,000.00	\$24,000.00	\$7,800.00	\$23,400.00	\$8,986.00	\$26,958.00	\$6,300.00	\$18,900.00	\$6,300.00	\$18,900.00
0023	MANHOLE ADJUSTMENT, MAJOR	2 EA	\$3,500.00	\$7,000.00	\$3,500.00	\$7,000.00	\$3,900.00	\$7,800.00	\$4,900.00	\$9,800.00	\$4,900.00	\$9,800.00
0024	REMOVE INTAKE	6 EA	\$2,500.00	\$15,000.00	\$680.00	\$4,080.00	\$850.00	\$5,100.00	\$1,900.00	\$11,400.00	\$1,900.00	\$11,400.00
0025	CONNECTION TO EXISTING MANHOLE AND INTAKE	4 EA	\$2,500.00	\$10,000.00	\$2,100.00	\$8,400.00	\$4,247.00	\$16,988.00	\$5,300.00	\$21,200.00	\$5,300.00	\$21,200.00
0026	PAVEMENT PCC, 6 IN	3300 SY	\$65.00	\$214,500.00	\$42.00	\$138,600.00	\$41.90	\$138,270.00	\$42.00	\$138,600.00	\$42.00	\$138,600.00
0027	PAVEMENT PCC, 7 IN	800 SY	\$70.00	\$56,000.00	\$56.00	\$44,800.00	\$47.50	\$38,000.00	\$47.25	\$37,800.00	\$47.25	\$37,800.00
0028	CURB AND GUTTER 2.5 FT	775 LF	\$50.00	\$38,750.00	\$40.00	\$31,000.00	\$35.40	\$27,435.00	\$47.00	\$36,425.00	\$47.00	\$36,425.00
0029	HMA LIGHT TRAFFIC (LT), SURFACE COURSE, 1/2 IN. MIX, PG58-28H	1062 TON	\$110.00	\$116,820.00	\$74.00	\$78,588.00	\$72.70	\$77,207.40	\$76.00	\$80,712.00	\$76.00	\$80,712.00
0030	REMOVAL OF SIDEWALK OR DRIVEWAY	445 SY	\$15.00	\$6,675.00	\$5.50	\$2,447.50	\$41.70	\$18,556.50	\$13.00	\$5,785.00	\$13.00	\$5,785.00
0031	SIDEWALK, PCC 4 IN	1260 SY	\$60.00	\$75,600.00	\$45.00	\$56,700.00	\$36.40	\$45,864.00	\$40.00	\$50,400.00	\$40.00	\$50,400.00
0032	SIDEWALK, PCC 6 IN	135 SY	\$65.00	\$8,775.00	\$66.00	\$8,910.00	\$176.80	\$23,868.00	\$50.00	\$6,750.00	\$50.00	\$6,750.00
0033	DETECTABLE WARNINGS	176 SF	\$50.00	\$8,800.00	\$52.00	\$9,152.00	\$50.50	\$8,888.00	\$47.25	\$8,316.00	\$47.25	\$8,316.00
0034	DRIVEWAY, PAVED 6 IN	395 SY	\$65.00	\$25,675.00	\$52.00	\$20,540.00	\$46.50	\$18,367.50	\$61.00	\$24,095.00	\$61.00	\$24,095.00
0035	FULL DEPTH PATCHES, 9" PCC	132 SY	\$140.00	\$18,480.00	\$92.00	\$12,144.00	\$154.00	\$20,328.00	\$113.50	\$14,982.00	\$113.50	\$14,982.00
0036	MILLING	4800 SY	\$5.00	\$24,000.00	\$3.00	\$14,400.00	\$3.00	\$14,400.00	\$3.15	\$15,120.00	\$3.15	\$15,120.00
0037	PAVEMENT REMOVAL	4225 SY	\$15.00	\$63,375.00	\$6.00	\$25,350.00	\$10.10	\$42,672.50	\$8.00	\$33,800.00	\$8.00	\$33,800.00
0038	CURB AND GUTTER REMOVAL	775 LF	\$20.00	\$15,500.00	\$2.00	\$1,550.00	\$25.30	\$19,607.50	\$12.50	\$9,687.50	\$12.50	\$9,687.50
0039	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	25 STA	\$165.00	\$4,125.00	\$613.00	\$15,325.00	\$606.00	\$15,150.00	\$101.00	\$2,525.00	\$101.00	\$2,525.00
0040	PAINTED SYMBOLS AND LEGENDS	10 EA	\$200.00	\$2,000.00	\$200.00	\$2,000.00	\$202.00	\$2,020.00	\$31.50	\$315.00	\$31.50	\$315.00
0041	ADA PARKING STALL SIGN	4 EA	\$350.00	\$1,400.00	\$410.00	\$1,640.00	\$404.00	\$1,616.00	\$210.00	\$840.00	\$210.00	\$840.00

69

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0042	TEMPORARY TRAFFIC CONTROL	1 LS	\$30,000.00	\$30,000.00	\$8,500.00	\$8,500.00	\$8,433.50	\$8,433.50	\$7,800.00	\$7,800.00
0043	HYDRAULIC SEEDING, LAWN MIX	1 AC	\$5,000.00	\$5,000.00	\$4,100.00	\$4,100.00	\$4,393.50	\$4,393.50	\$4,600.00	\$4,600.00
0044	SEEDING, SLOPE MIX	0.2 AC	\$10,000.00	\$2,000.00	\$3,900.00	\$780.00	\$6,565.00	\$1,313.00	\$6,800.00	\$1,360.00
0045	SEEDING, SEMI WET BASIN MIX	0.15 AC	\$10,000.00	\$1,500.00	\$5,600.00	\$840.00	\$6,565.00	\$984.75	\$6,800.00	\$1,020.00
0046	RAIN GARDENS	1 LS	\$20,000.00	\$20,000.00	\$6,600.00	\$6,600.00	\$43,915.00	\$43,915.00	\$36,400.00	\$36,400.00
0047	PLANTS WITH WARRANTY	1 LS	\$35,000.00	\$35,000.00	\$47,000.00	\$47,000.00	\$49,187.00	\$49,187.00	\$51,100.00	\$51,100.00
0048	STORM WATER POLLUTION PREVENTION	1 LS	\$3,500.00	\$3,500.00	\$4,100.00	\$4,100.00	\$6,060.00	\$6,060.00	\$6,300.00	\$6,300.00
0049	FILTER SOCK, 12 IN.	2000 LF	\$3.00	\$6,000.00	\$2.60	\$5,200.00	\$2.20	\$4,400.00	\$2.30	\$4,600.00
0050	EROSION CONTROL MULCHING, HYDROMULCHING	2 AC	\$7,500.00	\$15,000.00	\$1,540.00	\$3,080.00	\$1,666.50	\$3,333.00	\$1,735.00	\$3,470.00
0051	INLET PROTECTION DEVICE	24 EA	\$300.00	\$7,200.00	\$87.00	\$2,088.00	\$136.40	\$3,273.60	\$140.00	\$3,360.00
0052	VINYL PRIVACY FENCE, 72" WHITE	750 LF	\$30.00	\$22,500.00	\$32.00	\$24,000.00	\$32.00	\$24,000.00	\$42.25	\$31,687.50
0053	ORNAMENTAL FENCE, 36"	425 LF	\$40.00	\$17,000.00	\$34.00	\$14,450.00	\$33.10	\$14,067.50	\$37.00	\$15,725.00
0054	REMOVE FENCE	350 LF	\$5.00	\$1,750.00	\$7.00	\$2,450.00	\$5.10	\$1,785.00	\$4.50	\$1,575.00
0055	UNDERGROUND DETENTION	1 LS	\$750,000.00	\$750,000.00	\$835,000.00	\$835,000.00	\$821,000.00	\$821,000.00	\$896,500.00	\$896,500.00
0056	REMOVAL OF GARAGE	1 LS	\$15,000.00	\$15,000.00	\$4,400.00	\$4,400.00	\$5,050.00	\$5,050.00	\$3,800.00	\$3,800.00
0057	DUMPSTER ENCLOSURE	1 LS	\$40,000.00	\$40,000.00	\$12,000.00	\$12,000.00	\$26,440.00	\$26,440.00	\$21,300.00	\$21,300.00
0058	MOBILIZATION	1 LS	\$243,430.00	\$243,430.00	\$102,000.00	\$102,000.00	\$107,335.65	\$107,335.65	\$108,350.00	\$108,350.00
0059	CONSTRUCTION SURVEY	1 LS	\$25,000.00	\$25,000.00	\$13,300.00	\$13,300.00	\$9,090.00	\$9,090.00	\$19,000.00	\$19,000.00
DIVISION 2: DES MOINES WATER WORKS										
0060	8" CL 52 DIP, RESTRAINED JOINT, OPEN CUT	196 EA	\$180.00	\$35,280.00	\$200.00	\$39,200.00	\$246.00	\$48,216.00	\$265.00	\$51,940.00
0061	8" SOLID SLEEVES	14 EA	\$750.00	\$10,500.00	\$1,500.00	\$21,000.00	\$989.00	\$13,846.00	\$570.00	\$7,980.00
0062	8" BENDS	20 EA	\$1,800.00	\$36,000.00	\$790.00	\$15,800.00	\$1,912.00	\$38,240.00	\$650.00	\$13,000.00
0063	8" VALVE	1 EA	\$2,400.00	\$2,400.00	\$2,400.00	\$2,400.00	\$2,860.00	\$2,860.00	\$1,500.00	\$1,500.00
0064	MAGNESIUM ANODE, 32 LB.	7 EA	\$1,000.00	\$7,000.00	\$841.00	\$5,887.00	\$975.00	\$6,825.00	\$550.00	\$3,850.00
0065	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 106+25	1 EA	\$5,000.00	\$5,000.00	\$980.00	\$980.00	\$780.00	\$780.00	\$1,400.00	\$1,400.00
0066	INSTALL 6" HYDT ASSEMBLY AT STA 106+13	1 EA	\$10,000.00	\$10,000.00	\$5,300.00	\$5,300.00	\$4,990.00	\$4,990.00	\$4,500.00	\$4,500.00
0067	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 206+45	1 EA	\$5,000.00	\$5,000.00	\$975.00	\$975.00	\$1,565.00	\$1,565.00	\$3,500.00	\$3,500.00
0068	INSTALL 6" HYDT ASSEMBLY AT STA 206+15	1 EA	\$10,000.00	\$10,000.00	\$5,650.00	\$5,650.00	\$8,530.00	\$8,530.00	\$7,300.00	\$7,300.00
0069	FOUNDATION ROCK	0.5 TON	\$60.00	\$30.00	\$281.00	\$140.50	\$420.00	\$210.00	\$38.00	\$19.00
TOTAL CONSTRUCTION COST				\$2,500,000.00		\$2,160,616.00		\$2,409,240.00		\$2,416,976.00
PERCENT OF ENGINEER'S ESTIMATE						-13.58%		-3.63%		-3.32%
						Low				

TABULATED BY: L.A. Vaughan APPROVED BY _____

CHECKED BY: _____

CONTRACTOR'S BID TABULATION
PROJECT: HAMILTON DRAIN STORM WATER IMPROVEMENTS PHASE 1

-----ESTIMATE-----

		Vanderpool Construction, Inc. Indianola, IA		Synergy Contracting LLC Altoona, IA		Minturn, Inc. Brooklyn, IA				
		BID SECURITY 10% Bid Bond		BID SECURITY 10% Bid Bond		BID SECURITY 10% Bid Bond				
		BID PRICE		BID PRICE		BID PRICE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT		
0001	CLEARING AND GRUBBING	0.13 AC	\$10,000.00	\$1,300.00	\$80,000.00	\$10,400.00	\$10,000.00	\$1,300.00	\$73,000.00	\$9,490.00
0002	TOPSOIL, ON-SITE	887 CY	\$15.00	\$13,305.00	\$20.00	\$17,740.00	\$14.00	\$12,418.00	\$45.00	\$39,915.00
0003	EXCAVATION. CLASS 10, WASTE	2100 CY	\$15.00	\$31,500.00	\$20.00	\$42,000.00	\$21.00	\$44,100.00	\$30.00	\$63,000.00
0004	SUBGRADE PREPARATION	3000 SY	\$3.00	\$9,000.00	\$4.00	\$12,000.00	\$7.00	\$21,000.00	\$10.00	\$30,000.00
0005	SUBBASE, MODIFIED	1000 CY	\$40.00	\$40,000.00	\$46.00	\$46,000.00	\$63.00	\$63,000.00	\$75.00	\$75,000.00
0006	REMOVAL OF KNOWN BOX CULVERT	75 LF	\$100.00	\$7,500.00	\$21.00	\$1,575.00	\$140.00	\$10,500.00	\$60.00	\$4,500.00
0007	SANITARY SEWER SERVICE RELOCATION	1 EA	\$2,500.00	\$2,500.00	\$2,300.00	\$2,300.00	\$11,200.00	\$11,200.00	\$2,300.00	\$2,300.00
0008	STORM SEWER, TRENCHED 15 IN	176 LF	\$75.00	\$13,200.00	\$90.00	\$15,840.00	\$168.00	\$29,568.00	\$92.00	\$16,192.00
0009	STORM SEWER, TRENCHED 18 IN	253 LF	\$80.00	\$20,240.00	\$95.00	\$24,035.00	\$175.00	\$44,275.00	\$95.00	\$24,035.00
0010	STORM SEWER, TRENCHED 24 IN	424 LF	\$85.00	\$36,040.00	\$100.00	\$42,400.00	\$217.00	\$92,008.00	\$106.00	\$44,944.00
0011	STORM SEWER, TRENCHED 48 IN	80 LF	\$220.00	\$17,600.00	\$335.00	\$26,800.00	\$336.00	\$26,880.00	\$188.00	\$15,040.00
0012	STORM SEWER, TRENCHED ARCHED PIPE 59"X36"	67 LF	\$250.00	\$16,750.00	\$245.00	\$16,415.00	\$539.00	\$36,113.00	\$275.00	\$18,425.00
0013	REMOVAL OF STORM SEWER	200 LF	\$25.00	\$5,000.00	\$65.00	\$13,000.00	\$42.00	\$8,400.00	\$17.50	\$3,500.00
0014	PIPE APRON, DR-202 59"X36"	1 EA	\$3,500.00	\$3,500.00	\$4,900.00	\$4,900.00	\$9,800.00	\$9,800.00	\$3,700.00	\$3,700.00
0015	MANHOLE, SW-402 (5X6)	1 EA	\$5,500.00	\$5,500.00	\$8,300.00	\$8,300.00	\$14,700.00	\$14,700.00	\$4,700.00	\$4,700.00
0016	MANHOLE, SW-401 (48")	7 EA	\$6,500.00	\$45,500.00	\$3,700.00	\$25,900.00	\$4,620.00	\$32,340.00	\$3,700.00	\$25,900.00
0017	MANHOLE, SW-401 (84")	1 EA	\$12,000.00	\$12,000.00	\$8,500.00	\$8,500.00	\$10,920.00	\$10,920.00	\$9,200.00	\$9,200.00
0018	MANHOLE, NYLOPLAST BASIN (30")	4 EA	\$3,000.00	\$12,000.00	\$3,900.00	\$15,600.00	\$5,250.00	\$21,000.00	\$4,300.00	\$17,200.00
0019	MANHOLE, HYDRODYNAMIC SEPARATOR	1 EA	\$20,000.00	\$20,000.00	\$120,000.00	\$120,000.00	\$74,250.00	\$74,250.00	\$87,500.00	\$87,500.00
0020	INTAKE, SW-501	11 EA	\$7,500.00	\$82,500.00	\$7,400.00	\$81,400.00	\$3,500.00	\$38,500.00	\$5,600.00	\$61,600.00
0021	INTAKE, SW-503	1 EA	\$7,500.00	\$7,500.00	\$9,200.00	\$9,200.00	\$5,880.00	\$5,880.00	\$6,600.00	\$6,600.00
0022	INTAKE, SW-505	3 EA	\$8,000.00	\$24,000.00	\$8,900.00	\$26,700.00	\$4,480.00	\$13,440.00	\$5,600.00	\$16,800.00
0023	MANHOLE ADJUSTMENT, MAJOR	2 EA	\$3,500.00	\$7,000.00	\$2,000.00	\$4,000.00	\$2,800.00	\$5,600.00	\$3,500.00	\$7,000.00
0024	REMOVE INTAKE	6 EA	\$2,500.00	\$15,000.00	\$650.00	\$3,900.00	\$700.00	\$4,200.00	\$575.00	\$3,450.00
0025	CONNECTION TO EXISTING MANHOLE AND INTAKE	4 EA	\$2,500.00	\$10,000.00	\$2,700.00	\$10,800.00	\$2,800.00	\$11,200.00	\$1,900.00	\$7,600.00
0026	PAVEMENT PCC, 6 IN	3300 SY	\$65.00	\$214,500.00	\$43.00	\$141,900.00	\$42.00	\$138,600.00	\$60.00	\$198,000.00
0027	PAVEMENT PCC, 7 IN	800 SY	\$70.00	\$56,000.00	\$48.50	\$38,800.00	\$45.00	\$36,000.00	\$80.00	\$64,000.00
0028	CURB AND GUTTER 2.5 FT	775 LF	\$50.00	\$38,750.00	\$36.00	\$27,900.00	\$49.00	\$37,975.00	\$60.00	\$46,500.00
0029	HMA LIGHT TRAFFIC (LT), SURFACE COURSE, 1/2 IN. MIX, PG58-28H	1062 TON	\$110.00	\$116,820.00	\$77.00	\$81,774.00	\$72.00	\$76,464.00	\$85.00	\$90,270.00
0030	REMOVAL OF SIDEWALK OR DRIVEWAY	445 SY	\$15.00	\$6,675.00	\$50.00	\$22,250.00	\$14.00	\$6,230.00	\$20.00	\$8,900.00
0031	SIDEWALK, PCC 4 IN	1260 SY	\$60.00	\$75,600.00	\$64.00	\$80,640.00	\$56.00	\$70,560.00	\$70.00	\$88,200.00
0032	SIDEWALK, PCC 6 IN	135 SY	\$65.00	\$8,775.00	\$210.00	\$28,350.00	\$140.00	\$18,900.00	\$80.00	\$10,800.00
0033	DETECTABLE WARNINGS	176 SF	\$50.00	\$8,800.00	\$52.00	\$9,152.00	\$56.00	\$9,856.00	\$45.00	\$7,920.00
0034	DRIVEWAY, PAVED 6 IN	395 SY	\$65.00	\$25,675.00	\$79.00	\$31,205.00	\$63.00	\$24,885.00	\$75.00	\$29,625.00
0035	FULL DEPTH PATCHES, 9" PCC	132 SY	\$140.00	\$18,480.00	\$157.00	\$20,724.00	\$140.00	\$18,480.00	\$125.00	\$16,500.00
0036	MILLING	4800 SY	\$5.00	\$24,000.00	\$3.25	\$15,600.00	\$3.00	\$14,400.00	\$3.50	\$16,800.00
0037	PAVEMENT REMOVAL	4225 SY	\$15.00	\$63,375.00	\$13.00	\$54,925.00	\$14.00	\$59,150.00	\$25.00	\$105,625.00
0038	CURB AND GUTTER REMOVAL	775 LF	\$20.00	\$15,500.00	\$12.00	\$9,300.00	\$21.00	\$16,275.00	\$25.00	\$19,375.00
0039	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	25 STA	\$165.00	\$4,125.00	\$615.00	\$15,375.00	\$140.00	\$3,500.00	\$110.00	\$2,750.00
0040	PAINTED SYMBOLS AND LEGENDS	10 EA	\$200.00	\$2,000.00	\$205.00	\$2,050.00	\$42.00	\$420.00	\$35.00	\$350.00
0041	ADA PARKING STALL SIGN	4 EA	\$350.00	\$1,400.00	\$410.00	\$1,640.00	\$280.00	\$1,120.00	\$250.00	\$1,000.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0042	TEMPORARY TRAFFIC CONTROL	1 LS	\$30,000.00	\$30,000.00	\$8,600.00	\$8,600.00	\$11,900.00	\$11,900.00	\$8,500.00	\$8,500.00
0043	HYDRAULIC SEEDING, LAWN MIX	1 AC	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00	\$5,600.00	\$5,600.00	\$4,500.00	\$4,500.00
0044	SEEDING, SLOPE MIX	0.2 AC	\$10,000.00	\$2,000.00	\$6,700.00	\$1,340.00	\$10,780.00	\$2,156.00	\$9,000.00	\$1,800.00
0045	SEEDING, SEMI WET BASIN MIX	0.15 AC	\$10,000.00	\$1,500.00	\$6,700.00	\$1,005.00	\$12,320.00	\$1,848.00	\$12,000.00	\$1,800.00
0046	RAIN GARDENS	1 LS	\$20,000.00	\$20,000.00	\$35,100.00	\$35,100.00	\$8,400.00	\$8,400.00	\$22,000.00	\$22,000.00
0047	PLANTS WITH WARRANTY	1 LS	\$35,000.00	\$35,000.00	\$50,200.00	\$50,200.00	\$63,000.00	\$63,000.00	\$50,000.00	\$50,000.00
0048	STORM WATER POLLUTION PREVENTION	1 LS	\$3,500.00	\$3,500.00	\$6,200.00	\$6,200.00	\$4,200.00	\$4,200.00	\$7,000.00	\$7,000.00
0049	FILTER SOCK, 12 IN.	2000 LF	\$3.00	\$6,000.00	\$2.25	\$4,500.00	\$3.00	\$6,000.00	\$2.50	\$5,000.00
0050	EROSION CONTROL MULCHING, HYDROMULCHING	2 AC	\$7,500.00	\$15,000.00	\$1,700.00	\$3,400.00	\$2,100.00	\$4,200.00	\$2,000.00	\$4,000.00
0051	INLET PROTECTION DEVICE	24 EA	\$300.00	\$7,200.00	\$139.00	\$3,336.00	\$280.00	\$6,720.00	\$150.00	\$3,600.00
0052	VINYL PRIVACY FENCE, 72" WHITE	750 LF	\$30.00	\$22,500.00	\$33.00	\$24,750.00	\$32.00	\$24,000.00	\$35.00	\$26,250.00
0053	ORNAMENTAL FENCE, 36"	425 LF	\$40.00	\$17,000.00	\$34.00	\$14,450.00	\$33.00	\$14,025.00	\$35.00	\$14,875.00
0054	REMOVE FENCE	350 LF	\$5.00	\$1,750.00	\$8.00	\$2,800.00	\$7.00	\$2,450.00	\$8.00	\$2,800.00
0055	UNDERGROUND DETENTION	1 LS	\$750,000.00	\$750,000.00	\$892,000.00	\$892,000.00	\$886,600.00	\$886,600.00	\$892,595.00	\$892,595.00
0056	REMOVAL OF GARAGE	1 LS	\$15,000.00	\$15,000.00	\$7,100.00	\$7,100.00	\$4,200.00	\$4,200.00	\$3,500.00	\$3,500.00
0057	DUMPSTER ENCLOSURE	1 LS	\$40,000.00	\$40,000.00	\$35,000.00	\$35,000.00	\$42,000.00	\$42,000.00	\$32,000.00	\$32,000.00
0058	MOBILIZATION	1 LS	\$243,430.00	\$243,430.00	\$105,000.00	\$105,000.00	\$140,000.00	\$140,000.00	\$275,000.00	\$275,000.00
0059	CONSTRUCTION SURVEY	1 LS	\$25,000.00	\$25,000.00	\$12,400.00	\$12,400.00	\$21,000.00	\$21,000.00	\$16,500.00	\$16,500.00
DIVISION 2: DES MOINES WATER WORKS										
0060	8" CL 52 DIP, RESTRAINED JOINT, OPEN CUT	196 EA	\$180.00	\$35,280.00	\$164.00	\$32,144.00	\$203.00	\$39,788.00	\$142.00	\$27,832.00
0061	8" SOLID SLEEVES	14 EA	\$750.00	\$10,500.00	\$700.00	\$9,800.00	\$560.00	\$7,840.00	\$1,055.00	\$14,770.00
0062	8" BENDS	20 EA	\$1,800.00	\$36,000.00	\$750.00	\$15,000.00	\$700.00	\$14,000.00	\$820.00	\$16,400.00
0063	8" VALVE	1 EA	\$2,400.00	\$2,400.00	\$1,800.00	\$1,800.00	\$2,240.00	\$2,240.00	\$2,600.00	\$2,600.00
0064	MAGNESIUM ANODE, 32 LB.	7 EA	\$1,000.00	\$7,000.00	\$525.00	\$3,675.00	\$420.00	\$2,940.00	\$700.00	\$4,900.00
0065	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 106+25	1 EA	\$5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$4,200.00	\$4,200.00	\$1,300.00	\$1,300.00
0066	INSTALL 6" HYDT ASSEMBLY AT STA 106+13	1 EA	\$10,000.00	\$10,000.00	\$5,500.00	\$5,500.00	\$8,540.00	\$8,540.00	\$5,800.00	\$5,800.00
0067	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 206+45	1 EA	\$5,000.00	\$5,000.00	\$4,600.00	\$4,600.00	\$4,200.00	\$4,200.00	\$5,500.00	\$5,500.00
0068	INSTALL 6" HYDT ASSEMBLY AT STA 206+15	1 EA	\$10,000.00	\$10,000.00	\$7,900.00	\$7,900.00	\$9,100.00	\$9,100.00	\$9,600.00	\$9,600.00
0069	FOUNDATION ROCK	0.5 TON	\$60.00	\$30.00	\$30.00	\$15.00	\$700.00	\$350.00	\$17.50	\$8.75
TOTAL CONSTRUCTION COST				\$2,500,000.00		\$2,464,905.00		\$2,516,904.00		\$2,764,636.75
PERCENT OF ENGINEER'S ESTIMATE						-1.40%		+0.68%		+10.59%

TABULATED BY: L.A. Vaughan APPROVED BY: _____

CHECKED BY: _____

CONTRACTOR'S BID TABULATION
PROJECT: HAMILTON DRAIN STORM WATER IMPROVEMENTS PHASE 1

-----ESTIMATE-----

Jasper Construction Services, Inc. Newton, IA	MPS Engineers PC dba Kingston Services, PC Des Moines, IA
BID SECURITY 10% Bid Bond	BID SECURITY 10% Bid Bond
BID PRICE	BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0001	CLEARING AND GRUBBING	0.13 AC	\$10,000.00	\$1,300.00	\$75,000.00	\$9,750.00	\$22,000.00	\$2,860.00
0002	TOPSOIL, ON-SITE	887 CY	\$15.00	\$13,305.00	\$25.00	\$22,175.00	\$28.00	\$24,836.00
0003	EXCAVATION. CLASS 10, WASTE	2100 CY	\$15.00	\$31,500.00	\$35.00	\$73,500.00	\$24.00	\$50,400.00
0004	SUBGRADE PREPARATION	3000 SY	\$3.00	\$9,000.00	\$12.00	\$36,000.00	\$4.00	\$12,000.00
0005	SUBBASE, MODIFIED	1000 CY	\$40.00	\$40,000.00	\$80.00	\$80,000.00	\$54.00	\$54,000.00
0006	REMOVAL OF KNOWN BOX CULVERT	75 LF	\$100.00	\$7,500.00	\$100.00	\$7,500.00	\$65.00	\$4,875.00
0007	SANITARY SEWER SERVICE RELOCATION	1 EA	\$2,500.00	\$2,500.00	\$3,200.00	\$3,200.00	\$4,500.00	\$4,500.00
0008	STORM SEWER, TRENCHED 15 IN	176 LF	\$75.00	\$13,200.00	\$75.00	\$13,200.00	\$85.00	\$14,960.00
0009	STORM SEWER, TRENCHED 18 IN	253 LF	\$80.00	\$20,240.00	\$80.00	\$20,240.00	\$90.00	\$22,770.00
0010	STORM SEWER, TRENCHED 24 IN	424 LF	\$85.00	\$36,040.00	\$95.00	\$40,280.00	\$100.00	\$42,400.00
0011	STORM SEWER, TRENCHED 48 IN	80 LF	\$220.00	\$17,600.00	\$250.00	\$20,000.00	\$225.00	\$18,000.00
0012	STORM SEWER, TRENCHED ARCHED PIPE 59"X36"	67 LF	\$250.00	\$16,750.00	\$300.00	\$20,100.00	\$300.00	\$20,100.00
0013	REMOVAL OF STORM SEWER	200 LF	\$25.00	\$5,000.00	\$25.00	\$5,000.00	\$35.00	\$7,000.00
0014	PIPE APRON, DR-202 59"X36"	1 EA	\$3,500.00	\$3,500.00	\$6,500.00	\$6,500.00	\$4,500.00	\$4,500.00
0015	MANHOLE, SW-402 (5X6)	1 EA	\$5,500.00	\$5,500.00	\$11,000.00	\$11,000.00	\$7,500.00	\$7,500.00
0016	MANHOLE, SW-401 (48")	7 EA	\$6,500.00	\$45,500.00	\$5,600.00	\$39,200.00	\$6,500.00	\$45,500.00
0017	MANHOLE, SW-401 (84")	1 EA	\$12,000.00	\$12,000.00	\$10,500.00	\$10,500.00	\$15,000.00	\$15,000.00
0018	MANHOLE, NYLOPLAST BASIN (30")	4 EA	\$3,000.00	\$12,000.00	\$5,000.00	\$20,000.00	\$3,500.00	\$14,000.00
0019	MANHOLE, HYDRODYNAMIC SEPARATOR	1 EA	\$20,000.00	\$20,000.00	\$125,000.00	\$125,000.00	\$135,520.00	\$135,520.00
0020	INTAKE, SW-501	11 EA	\$7,500.00	\$82,500.00	\$7,500.00	\$82,500.00	\$7,500.00	\$82,500.00
0021	INTAKE, SW-503	1 EA	\$7,500.00	\$7,500.00	\$8,000.00	\$8,000.00	\$7,500.00	\$7,500.00
0022	INTAKE, SW-505	3 EA	\$8,000.00	\$24,000.00	\$8,000.00	\$24,000.00	\$8,000.00	\$24,000.00
0023	MANHOLE ADJUSTMENT, MAJOR	2 EA	\$3,500.00	\$7,000.00	\$3,500.00	\$7,000.00	\$3,500.00	\$7,000.00
0024	REMOVE INTAKE	6 EA	\$2,500.00	\$15,000.00	\$1,000.00	\$6,000.00	\$1,500.00	\$9,000.00
0025	CONNECTION TO EXISTING MANHOLE AND INTAKE	4 EA	\$2,500.00	\$10,000.00	\$6,200.00	\$24,800.00	\$1,500.00	\$6,000.00
0026	PAVEMENT PCC, 6 IN	3300 SY	\$65.00	\$214,500.00	\$60.00	\$198,000.00	\$64.00	\$211,200.00
0027	PAVEMENT PCC, 7 IN	800 SY	\$70.00	\$56,000.00	\$90.00	\$72,000.00	\$72.00	\$57,600.00
0028	CURB AND GUTTER 2.5 FT	775 LF	\$50.00	\$38,750.00	\$50.00	\$38,750.00	\$54.00	\$41,850.00
0029	HMA LIGHT TRAFFIC (LT), SURFACE COURSE, 1/2 IN. MIX, PG58-28H	1062 TON	\$110.00	\$116,820.00	\$80.00	\$84,960.00	\$100.00	\$106,200.00
0030	REMOVAL OF SIDEWALK OR DRIVEWAY	445 SY	\$15.00	\$6,675.00	\$15.00	\$6,675.00	\$15.00	\$6,675.00
0031	SIDEWALK, PCC 4 IN	1260 SY	\$60.00	\$75,600.00	\$55.00	\$69,300.00	\$65.00	\$81,900.00
0032	SIDEWALK, PCC 6 IN	135 SY	\$65.00	\$8,775.00	\$85.00	\$11,475.00	\$112.00	\$15,120.00
0033	DETECTABLE WARNINGS	176 SF	\$50.00	\$8,800.00	\$50.00	\$8,800.00	\$54.00	\$9,504.00
0034	DRIVEWAY, PAVED 6 IN	395 SY	\$65.00	\$25,675.00	\$75.00	\$29,625.00	\$65.00	\$25,675.00
0035	FULL DEPTH PATCHES, 9" PCC	132 SY	\$140.00	\$18,480.00	\$120.00	\$15,840.00	\$185.00	\$24,420.00
0036	MILLING	4800 SY	\$5.00	\$24,000.00	\$3.50	\$16,800.00	\$5.00	\$24,000.00
0037	PAVEMENT REMOVAL	4225 SY	\$15.00	\$63,375.00	\$15.00	\$63,375.00	\$15.00	\$63,375.00
0038	CURB AND GUTTER REMOVAL	775 LF	\$20.00	\$15,500.00	\$15.00	\$11,625.00	\$16.00	\$12,400.00
0039	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	25 STA	\$165.00	\$4,125.00	\$120.00	\$3,000.00	\$180.00	\$4,500.00
0040	PAINTED SYMBOLS AND LEGENDS	10 EA	\$200.00	\$2,000.00	\$50.00	\$500.00	\$125.00	\$1,250.00
0041	ADA PARKING STALL SIGN	4 EA	\$350.00	\$1,400.00	\$250.00	\$1,000.00	\$250.00	\$1,000.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0042	TEMPORARY TRAFFIC CONTROL	1 LS	\$30,000.00	\$30,000.00	\$15,000.00	\$15,000.00	\$8,000.00	\$8,000.00
0043	HYDRAULIC SEEDING, LAWN MIX	1 AC	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00	\$4,700.00	\$4,700.00
0044	SEEDING, SLOPE MIX	0.2 AC	\$10,000.00	\$2,000.00	\$8,500.00	\$1,700.00	\$8,200.00	\$1,640.00
0045	SEEDING, SEMI WET BASIN MIX	0.15 AC	\$10,000.00	\$1,500.00	\$11,500.00	\$1,725.00	\$12,000.00	\$1,800.00
0046	RAIN GARDENS	1 LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$24,000.00	\$24,000.00
0047	PLANTS WITH WARRANTY	1 LS	\$35,000.00	\$35,000.00	\$45,000.00	\$45,000.00	\$54,000.00	\$54,000.00
0048	STORM WATER POLLUTION PREVENTION	1 LS	\$3,500.00	\$3,500.00	\$10,500.00	\$10,500.00	\$6,500.00	\$6,500.00
0049	FILTER SOCK, 12 IN.	2000 LF	\$3.00	\$6,000.00	\$1.25	\$2,500.00	\$4.00	\$8,000.00
0050	EROSION CONTROL MULCHING, HYDROMULCHING	2 AC	\$7,500.00	\$15,000.00	\$2,500.00	\$5,000.00	\$1,750.00	\$3,500.00
0051	INLET PROTECTION DEVICE	24 EA	\$300.00	\$7,200.00	\$250.00	\$6,000.00	\$300.00	\$7,200.00
0052	VINYL PRIVACY FENCE, 72" WHITE	750 LF	\$30.00	\$22,500.00	\$35.00	\$26,250.00	\$40.00	\$30,000.00
0053	ORNAMENTAL FENCE, 36"	425 LF	\$40.00	\$17,000.00	\$38.00	\$16,150.00	\$40.00	\$17,000.00
0054	REMOVE FENCE	350 LF	\$5.00	\$1,750.00	\$10.00	\$3,500.00	\$8.00	\$2,800.00
0055	UNDERGROUND DETENTION	1 LS	\$750,000.00	\$750,000.00	\$950,000.00	\$950,000.00	\$894,000.00	\$894,000.00
0056	REMOVAL OF GARAGE	1 LS	\$15,000.00	\$15,000.00	\$5,000.00	\$5,000.00	\$16,200.00	\$16,200.00
0057	DUMPSTER ENCLOSURE	1 LS	\$40,000.00	\$40,000.00	\$35,000.00	\$35,000.00	\$25,000.00	\$25,000.00
0058	MOBILIZATION	1 LS	\$243,430.00	\$243,430.00	\$215,000.00	\$215,000.00	\$284,000.00	\$284,000.00
0059	CONSTRUCTION SURVEY	1 LS	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$28,785.00	\$28,785.00
DIVISION 2: DES MOINES WATER WORKS								
0060	8" CL 52 DIP, RESTRAINED JOINT, OPEN CUT	196 EA	\$180.00	\$35,280.00	\$85.00	\$16,660.00	\$185.00	\$36,260.00
0061	8" SOLID SLEEVES	14 EA	\$750.00	\$10,500.00	\$600.00	\$8,400.00	\$900.00	\$12,600.00
0062	8" BENDS	20 EA	\$1,800.00	\$36,000.00	\$725.00	\$14,500.00	\$1,500.00	\$30,000.00
0063	8" VALVE	1 EA	\$2,400.00	\$2,400.00	\$2,200.00	\$2,200.00	\$2,400.00	\$2,400.00
0064	MAGNESIUM ANODE, 32 LB.	7 EA	\$1,000.00	\$7,000.00	\$550.00	\$3,850.00	\$1,000.00	\$7,000.00
0065	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 106+25	1 EA	\$5,000.00	\$5,000.00	\$750.00	\$750.00	\$3,500.00	\$3,500.00
0066	INSTALL 6" HYDT ASSEMBLY AT STA 106+13	1 EA	\$10,000.00	\$10,000.00	\$5,500.00	\$5,500.00	\$12,000.00	\$12,000.00
0067	REMOVAL OF EX 6" HYD ASSEMBLY AT STA 206+45	1 EA	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$3,500.00	\$3,500.00
0068	INSTALL 6" HYDT ASSEMBLY AT STA 206+15	1 EA	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00	\$12,800.00	\$12,800.00
0069	FOUNDATION ROCK	0.5 TON	\$60.00	\$30.00	\$170.00	\$85.00	\$60.00	\$30.00
TOTAL CONSTRUCTION COST				\$2,500,000.00		\$2,796,940.00		\$2,860,605.00
PERCENT OF ENGINEER'S ESTIMATE						+11.88%		+14.42%