

DATE March 9, 2020

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON HUBBELL AVENUE REHABILITATION FROM E 18TH STREET TO EASTON BOULEVARD, RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS OMG MIDWEST, INC. DBA DES MOINES ASPHALT & PAVING KEVIN BRAGG, PRESIDENT, \$1,605,743.00

WHEREAS, on January 27, 2020, under Roll Call No. 20-0127, 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:

Hubbell Avenue Rehabilitation from E. 18th Street to Easton Boulevard, 06-2019-019

The improvement includes Portland Cement Concrete (PCC) full depth patches, curb & gutter, sidewalk, driveways, milling, Hot Mix Asphalt (HMA) overlay, modified subbase, subdrain, storm sewer installation, storm sewer intakes, pavement markings, traffic control, seeding, miscellaneous associated work including cleanup and restoration; all in accordance with the contract documents, including Plan File Nos. 615-110/163, located at Hubbell Avenue between E. 18th Street and Easton Boulevard, 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:

- OMG Midwest, Inc. dba Des Moines Asphalt & Paving Ankeny, IA
- Grimes Asphalt and Paving Corporation Des Moines, IA
- Hawkeye Paving Corporation Bettendorf, IA
- TK Concrete, Inc. Pella, IA
- Jasper Construction Services, Inc. Newton, IA

★ **Roll Call Number**

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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 February 11, 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 OMG Midwest, Inc. dba Des Moines Asphalt & Paving, Kevin Bragg, President, 2401 SE Tones Drive, Ste. 13, Ankeny, IA, 50021 in the amount of \$1,605,743.00, 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.

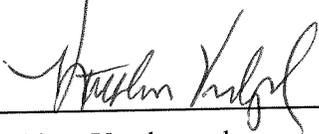
BE IT FURTHER RESOLVED: That the Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Engineer is directed to thereafter present said contract documents to this Council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

(City Council Communication Number 20-114 attached.)

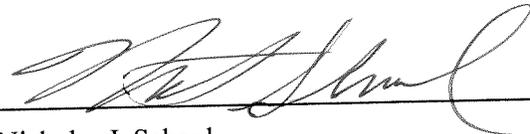
Moved by _____ to adopt.

FORM APPROVED:



Kathleen Vanderpool
Deputy City Attorney

FUNDS AVAILABLE



Nickolas J. Schaul
Interim Des Moines Finance Director

SLN Funding Source: 2019-2020 CIP, Page Street, Street Improvements – LOSST, ST800, LOSST Monies

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COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
GATTO				
GRAY				
MANDELBAUM				
VOSS				
WESTERGAARD				
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

TABULATED BY: By Brockman APPROVED BY: R. De Groot
CHECKED BY: Shea Cim Vaughan

CONTRACTOR'S BID TABULATION

PROJECT: HUBBELL AVENUE REHABILITATION FROM E. 18TH STREET TO EASTON BOULEVARD

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0001	TOPSOIL, ON-SITE	40 CY	\$50.00	\$2,000.00	\$25.00	\$1,000.00	\$57.00	\$2,280.00	\$150.00	\$6,000.00	\$75.00	\$3,000.00
0002	EXCAVATION, CLASS 10, WASTE	485 CY	\$30.00	\$14,550.00	\$35.00	\$16,975.00	\$31.00	\$15,035.00	\$25.00	\$12,125.00	\$35.00	\$16,975.00
0003	SUBGRADE TREATMENT GEOGRID, TYPE 2	1,000 SY	\$3.50	\$3,500.00	\$5.25	\$5,250.00	\$4.25	\$4,250.00	\$2.00	\$2,000.00	\$5.00	\$5,000.00
0004	SUBBASE OVER-EXCAVATION, MODIFIED SUBBASE	1,000 TON	\$60.00	\$60,000.00	\$25.00	\$25,000.00	\$52.00	\$52,000.00	\$25.00	\$25,000.00	\$55.00	\$55,000.00
0005	SUBBASE, MODIFIED	715 TON	\$40.00	\$28,600.00	\$25.00	\$17,875.00	\$36.00	\$25,740.00	\$55.00	\$39,325.00	\$40.00	\$28,600.00
0006	STORM SEWER, TRENCHED, RCP, 15 IN.	35 LF	\$150.00	\$5,250.00	\$120.00	\$4,200.00	\$175.00	\$6,125.00	\$170.00	\$5,950.00	\$220.00	\$7,700.00
0007	STORM SEWER, TRENCHED, RCP, 24 IN.	24 LF	\$175.00	\$4,200.00	\$150.00	\$3,600.00	\$284.00	\$6,816.00	\$225.00	\$5,400.00	\$350.00	\$8,400.00
0008	STORM SEWER, TRENCHED, RCP, 30 IN.	165 LF	\$200.00	\$33,000.00	\$225.00	\$37,125.00	\$216.00	\$35,640.00	\$270.00	\$44,550.00	\$260.00	\$42,900.00
0009	REMOVAL OF STORM SEWER	81 LF	\$40.00	\$3,240.00	\$25.00	\$2,025.00	\$100.00	\$8,100.00	\$40.00	\$3,240.00	\$120.00	\$9,720.00
0010	SUBDRAIN, LONGITUDINAL, 6"	1,500 LF	\$30.00	\$45,000.00	\$15.00	\$22,500.00	\$27.00	\$40,500.00	\$20.00	\$30,000.00	\$30.00	\$45,000.00
0011	SUBDRAIN CLEANOUT, TYPE A-1	5 EA	\$500.00	\$2,500.00	\$450.00	\$2,250.00	\$869.00	\$4,345.00	\$500.00	\$2,500.00	\$750.00	\$3,750.00
0012	SUBDRAIN, OUTLETS AND CONNECTIONS	15 EA	\$500.00	\$7,500.00	\$350.00	\$5,250.00	\$789.00	\$11,835.00	\$300.00	\$4,500.00	\$500.00	\$7,500.00
0013	MANHOLE TYPE, SW-402	1 EA	\$6,500.00	\$6,500.00	\$6,400.00	\$6,400.00	\$13,911.00	\$13,911.00	\$7,000.00	\$7,000.00	\$16,875.00	\$16,875.00
0014	INTAKE TYPE, SW-501	2 EA	\$6,000.00	\$12,000.00	\$4,200.00	\$8,400.00	\$7,900.00	\$15,800.00	\$5,600.00	\$11,200.00	\$9,575.00	\$19,150.00
0015	INTAKE TYPE, SW-504 (MODIFIED)	3 EA	\$7,000.00	\$21,000.00	\$6,800.00	\$19,800.00	\$10,800.00	\$32,400.00	\$7,600.00	\$22,800.00	\$13,125.00	\$39,375.00
0016	INTAKE ADJUSTMENT, MINOR	3 EA	\$2,500.00	\$7,500.00	\$750.00	\$2,250.00	\$1,300.00	\$3,900.00	\$3,600.00	\$10,800.00	\$1,600.00	\$4,800.00
0017	MANHOLE ADJUSTMENT, MINOR	1 EA	\$2,000.00	\$2,000.00	\$750.00	\$750.00	\$1,230.00	\$1,230.00	\$4,400.00	\$4,400.00	\$1,500.00	\$1,500.00
0018	REMOVE MANHOLE	1 EA	\$1,000.00	\$1,000.00	\$1,600.00	\$1,600.00	\$821.00	\$821.00	\$1,700.00	\$1,700.00	\$1,500.00	\$1,500.00
0019	REMOVE INTAKE	1 EA	\$1,500.00	\$1,500.00	\$1,100.00	\$1,100.00	\$873.00	\$873.00	\$1,700.00	\$1,700.00	\$1,500.00	\$1,500.00
0020	PAVEMENT, PCC, 8 IN.	6 SY	\$75.00	\$450.00	\$250.00	\$1,500.00	\$129.00	\$774.00	\$300.00	\$1,800.00	\$125.00	\$750.00
0021	CURB AND GUTTER, REMOVE AND REPLACE	318 LF	\$55.00	\$17,490.00	\$35.00	\$11,130.00	\$52.00	\$16,536.00	\$90.00	\$28,620.00	\$55.00	\$17,490.00
0022	CONCRETE MEDIAN	64 SY	\$150.00	\$9,600.00	\$165.00	\$10,560.00	\$129.00	\$8,256.00	\$160.00	\$10,240.00	\$150.00	\$9,600.00
0023	HMA HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT, PG 58-28H	3,665 TON	\$110.00	\$403,150.00	\$77.00	\$282,205.00	\$80.00	\$293,200.00	\$77.00	\$282,205.00	\$90.00	\$329,850.00
0024	HMA INTERLAYER BASE, 3/8" MIX, PG 58-34E	1,176 TON	\$125.00	\$147,000.00	\$95.00	\$111,720.00	\$107.00	\$125,832.00	\$95.00	\$111,720.00	\$117.00	\$137,592.00
0025	HMA HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2" MIX, PG 58-28H	925 TON	\$100.00	\$92,500.00	\$78.00	\$72,150.00	\$80.00	\$74,000.00	\$78.00	\$72,150.00	\$90.00	\$83,250.00
0026	HMA HIGH TRAFFIC, BASE COURSE, 3/4 IN. MIX, PG 58-28H	161 TON	\$95.00	\$15,295.00	\$79.00	\$12,719.00	\$80.00	\$12,880.00	\$79.00	\$12,719.00	\$90.00	\$14,490.00
0027	HMA PAVEMENT SAMPLES & TESTING	1 LS	\$12,000.00	\$12,000.00	\$2,500.00	\$2,500.00	\$5,600.00	\$5,600.00	\$2,500.00	\$2,500.00	\$3,500.00	\$3,500.00
0028	REMOVAL OF SIDEWALK	659 SY	\$15.00	\$9,885.00	\$15.00	\$9,885.00	\$16.00	\$10,544.00	\$12.00	\$7,908.00	\$15.00	\$9,885.00
0029	DRIVEWAY, PAVED, PCC, 8 IN.	317 SY	\$70.00	\$22,190.00	\$82.00	\$25,994.00	\$70.00	\$22,190.00	\$88.00	\$27,896.00	\$80.00	\$25,360.00
0030	SIDEWALK, PCC, 5 IN.,	803 SY	\$60.00	\$48,180.00	\$69.00	\$55,407.00	\$57.00	\$45,771.00	\$70.00	\$56,210.00	\$70.00	\$56,210.00
0031	SIDEWALK, INTERGRAL COLOR PCC, 5 IN.,	250 SY	\$85.00	\$21,250.00	\$150.00	\$37,500.00	\$93.00	\$23,250.00	\$125.00	\$31,250.00	\$100.00	\$25,000.00
0032	SIDEWALK, STAMPED, INTERGRAL COLOR PCC, 5 IN.,	146 SY	\$90.00	\$13,140.00	\$190.00	\$27,740.00	\$129.00	\$18,834.00	\$130.00	\$18,980.00	\$150.00	\$21,900.00
0033	DETECTABLE WARNINGS	80 SF	\$50.00	\$4,000.00	\$75.00	\$6,000.00	\$47.00	\$3,760.00	\$55.00	\$4,400.00	\$50.00	\$4,000.00
0034	FULL DEPTH PATCHES, PCC	4,379 SY	\$120.00	\$525,480.00	\$90.00	\$394,110.00	\$98.00	\$429,142.00	\$104.00	\$455,416.00	\$105.00	\$459,795.00
0035	MILLING	32,845 SY	\$5.00	\$164,225.00	\$2.90	\$95,250.50	\$2.00	\$65,690.00	\$3.00	\$98,535.00	\$3.00	\$98,535.00
0036	REMOVAL OF PAVEMENT	1,274 SY	\$15.00	\$19,110.00	\$15.00	\$19,110.00	\$16.00	\$20,384.00	\$10.00	\$12,740.00	\$18.00	\$22,932.00
0037	PARTIAL DEPTH SAW CUT, VERTICAL	2,650 LF	\$5.00	\$13,250.00	\$0.75	\$1,987.50	\$4.00	\$10,600.00	\$3.00	\$7,950.00	\$4.50	\$11,925.00
0038	PARTIAL DEPTH SAW CUT, HORIZONTAL	2,650 LF	\$7.00	\$18,550.00	\$5.00	\$13,250.00	\$6.00	\$15,900.00	\$5.00	\$13,250.00	\$6.50	\$17,225.00
0039	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	114 STA	\$40.00	\$4,560.00	\$75.00	\$8,550.00	\$41.00	\$4,674.00	\$75.00	\$8,550.00	\$100.00	\$11,400.00
0040	DURABLE PAVEMENT MARKINGS, EPOXY	21 STA	\$300.00	\$6,300.00	\$135.00	\$2,835.00	\$216.00	\$4,536.00	\$135.00	\$2,835.00	\$170.00	\$3,570.00
0041	INLAY TAPE MARKING, PROFILE MARKING TAPE	114 STA	\$400.00	\$45,600.00	\$475.00	\$54,150.00	\$526.00	\$59,964.00	\$475.00	\$54,150.00	\$525.00	\$59,850.00
0042	PRECUT SYMBOLS AND LEGENDS	2 EA	\$500.00	\$1,000.00	\$300.00	\$600.00	\$562.00	\$1,124.00	\$300.00	\$600.00	\$600.00	\$1,200.00
0043	GROOVES CUT FOR EPOXY	21 STA	\$150.00	\$3,150.00	\$140.00	\$2,940.00	\$171.00	\$3,591.00	\$140.00	\$2,940.00	\$250.00	\$5,250.00
0044	GROOVES CUT FOR SYMBOLS AND LEGENDS	2 EA	\$200.00	\$400.00	\$175.00	\$350.00	\$208.00	\$412.00	\$175.00	\$350.00	\$500.00	\$1,000.00
0045	TEMPORARY TRAFFIC CONTROL	1 LS	\$50,000.00	\$50,000.00	\$49,300.00	\$49,300.00	\$45,900.00	\$45,900.00	\$100,000.00	\$100,000.00	\$75,000.00	\$75,000.00
0046	LOOP DETECTOR REPLACEMENT, 6' BY 8'	12 EA	\$1,200.00	\$14,400.00	\$1,400.00	\$16,800.00	\$1,444.00	\$17,328.00	\$1,400.00	\$16,800.00	\$2,000.00	\$24,000.00
0047	LOOP DETECTOR REPLACEMENT, 6' BY 20'	12 EA	\$1,500.00	\$18,000.00	\$1,800.00	\$21,600.00	\$1,800.00	\$21,600.00	\$1,800.00	\$21,600.00	\$2,500.00	\$30,000.00
0048	CONVENTIONAL SEEDING, SEEDING, FERTILIZING AND MULCHING	0.1 AC	\$6,000.00	\$600.00	\$9,500.00	\$950.00	\$1,600.00	\$150.00	\$150.00	\$1,500.00	\$15,000.00	\$1,500.00
0049	INLET PROTECTION DEVICE	34 EA	\$200.00	\$6,800.00	\$150.00	\$5,100.00	\$129.00	\$4,386.00	\$50.00	\$1,700.00	\$200.00	\$6,800.00
0050	INLET PROTECTION DEVICE, MAINTENANCE	34 EA	\$50.00	\$1,700.00	\$25.00	\$850.00	\$21.00	\$714.00	\$20.00	\$680.00	\$100.00	\$3,400.00
0051	MOBILIZATION	1 LS	\$147,605.00	\$147,605.00	\$56,000.00	\$56,000.00	\$106,800.00	\$106,800.00	\$140,000.00	\$140,000.00	\$185,000.00	\$185,000.00
0052	PROJECT SIGN, LOSST	4 EA	\$500.00	\$2,000.00	\$300.00	\$1,200.00	\$155.00	\$620.00	\$500.00	\$2,000.00	\$600.00	\$2,400.00
0053	FLAGGER, UNIFORMED POLICE OFFICER	10 DAY	\$550.00	\$5,500.00	\$550.00	\$5,500.00	\$500.00	\$5,000.00	\$550.00	\$5,500.00	\$1,000.00	\$10,000.00
0054	FLAGGER, CERTIFIED	10 DAY	\$480.00	\$4,800.00	\$495.00	\$4,950.00	\$450.00	\$4,500.00	\$500.00	\$5,000.00	\$695.00	\$6,950.00
TOTAL CONSTRUCTION COST				\$2,130,000.00		\$1,605,743.00		\$1,772,253.00		\$1,860,884.00		\$2,094,854.00
PERCENT OF ENGINEER'S ESTIMATE						-24.61%		-16.80%		-12.63%		-1.65%

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TABULATED BY: B. Brockman APPROVED BY: _____
CHECKED BY: _____

CONTRACTOR'S BID TABULATION

PROJECT: HUBBELL AVENUE REHABILITATION FROM E. 18TH STREET TO EASTON BOULEVARD

ESTIMATE

Jasper Construction
Services, Inc.
Newton, IA

BID SECURITY
10% Bid Bond

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		
			PRICE	AMOUNT	PRICE	AMOUNT	
0001	TOPSOIL, ON-SITE	40	CY	\$50.00	\$2,000.00	\$100.00	\$4,000.00
0002	EXCAVATION, CLASS 10, WASTE	485	CY	\$30.00	\$14,550.00	\$45.00	\$21,825.00
0003	SUBGRADE TREATMENT GEOGRID, TYPE 2	1,000	SY	\$3.50	\$3,500.00	\$5.00	\$5,000.00
0004	SUBBASE OVER-EXCAVATION, MODIFIED SUBBASE	1,000	TON	\$60.00	\$60,000.00	\$70.00	\$70,000.00
0005	SUBBASE, MODIFIED	715	TON	\$40.00	\$28,600.00	\$60.00	\$42,900.00
0006	STORM SEWER, TRENCHED, RCP, 15 IN.	35	LF	\$150.00	\$5,250.00	\$190.00	\$6,650.00
0007	STORM SEWER, TRENCHED, RCP, 24 IN.	24	LF	\$175.00	\$4,200.00	\$300.00	\$7,200.00
0008	STORM SEWER, TRENCHED, RCP, 30 IN.	165	LF	\$200.00	\$33,000.00	\$225.00	\$37,125.00
0009	REMOVAL OF STORM SEWER	81	LF	\$40.00	\$3,240.00	\$100.00	\$8,100.00
0010	SUBDRAIN, LONGITUDINAL, 6"	1,500	LF	\$30.00	\$45,000.00	\$30.00	\$45,000.00
0011	SUBDRAIN CLEANOUT, TYPE A-1	5	EA	\$500.00	\$2,500.00	\$1,000.00	\$5,000.00
0012	SUBDRAIN, OUTLETS AND CONNECTIONS	15	EA	\$500.00	\$7,500.00	\$1,000.00	\$15,000.00
0013	MANHOLE TYPE, SW-402	1	EA	\$6,500.00	\$6,500.00	\$15,000.00	\$15,000.00
0014	INTAKE TYPE, SW-501	2	EA	\$6,000.00	\$12,000.00	\$8,500.00	\$17,000.00
0015	INTAKE TYPE, SW-504 (MODIFIED)	3	EA	\$7,000.00	\$21,000.00	\$11,000.00	\$33,000.00
0016	INTAKE ADJUSTMENT, MINOR	3	EA	\$2,500.00	\$7,500.00	\$3,000.00	\$9,000.00
0017	MANHOLE ADJUSTMENT, MINOR	1	EA	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00
0018	REMOVE MANHOLE	1	EA	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00
0019	REMOVE INTAKE	1	EA	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00
0020	PAVEMENT, PCC, 8 IN.	6	SY	\$75.00	\$450.00	\$250.00	\$1,500.00
0021	CURB AND GUTTER, REMOVE AND REPLACE	318	LF	\$55.00	\$17,490.00	\$75.00	\$23,850.00
0022	CONCRETE MEDIAN	64	SY	\$150.00	\$9,600.00	\$250.00	\$16,000.00
0023	HMA HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT, PG 58-28H	3,665	TON	\$110.00	\$403,150.00	\$88.00	\$322,520.00
0024	HMA INTERLAYER BASE, 3/8" MIX, PG 58-34E	1,176	TON	\$125.00	\$147,000.00	\$115.00	\$135,240.00
0025	HMA HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2" MIX, PG 58-28H	925	TON	\$100.00	\$92,500.00	\$88.00	\$81,400.00
0026	HMA HIGH TRAFFIC, BASE COURSE, 3/4 IN. MIX, PG 58-28H	161	TON	\$95.00	\$15,295.00	\$88.00	\$14,168.00
0027	HMA PAVEMENT SAMPLES & TESTING	1	LS	\$12,000.00	\$12,000.00	\$1,000.00	\$1,000.00
0028	REMOVAL OF SIDEWALK	659	SY	\$15.00	\$9,885.00	\$25.00	\$16,475.00
0029	DRIVEWAY, PAVED, PCC, 8 IN.	317	SY	\$70.00	\$22,190.00	\$95.00	\$30,115.00
0030	SIDEWALK, PCC, 5 IN.,	803	SY	\$60.00	\$48,180.00	\$80.00	\$64,240.00
0031	SIDEWALK, INTERGRAL COLOR PCC, 5 IN.,	250	SY	\$85.00	\$21,250.00	\$100.00	\$25,000.00
0032	SIDEWALK, STAMPED, INTERGRAL COLOR PCC, 5 IN.,	146	SY	\$90.00	\$13,140.00	\$125.00	\$18,250.00
0033	DETECTABLE WARNINGS	80	SF	\$50.00	\$4,000.00	\$55.00	\$4,400.00
0034	FULL DEPTH PATCHES, PCC	4,379	SY	\$120.00	\$525,480.00	\$135.00	\$591,165.00
0035	MILLING	32,845	SY	\$5.00	\$164,225.00	\$2.50	\$82,112.50
0036	REMOVAL OF PAVEMENT	1,274	SY	\$15.00	\$19,110.00	\$20.00	\$25,480.00
0037	PARTIAL DEPTH SAW CUT, VERTICAL	2,650	LF	\$5.00	\$13,250.00	\$5.00	\$13,250.00
0038	PARTIAL DEPTH SAW CUT, HORIZONTAL	2,650	LF	\$7.00	\$18,550.00	\$7.00	\$18,550.00
0039	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	114	STA	\$40.00	\$4,560.00	\$85.00	\$9,690.00
0040	DURABLE PAVEMENT MARKINGS, EPOXY	21	STA	\$300.00	\$6,300.00	\$150.00	\$3,150.00
0041	INLAY TAPE MARKING, PROFILE MARKING TAPE	114	STA	\$400.00	\$45,600.00	\$525.00	\$59,850.00
0042	PRECUT SYMBOLS AND LEGENDS	2	EA	\$500.00	\$1,000.00	\$350.00	\$700.00
0043	GROOVES CUT FOR EPOXY	21	STA	\$150.00	\$3,150.00	\$145.00	\$3,045.00
0044	GROOVES CUT FOR SYMBOLS AND LEGENDS	2	EA	\$200.00	\$400.00	\$200.00	\$400.00
0045	TEMPORARY TRAFFIC CONTROL	1	LS	\$50,000.00	\$50,000.00	\$85,000.00	\$85,000.00
0046	LOOP DETECTOR REPLACEMENT, 6' BY 8'	12	EA	\$1,200.00	\$14,400.00	\$1,600.00	\$19,200.00
0047	LOOP DETECTOR REPLACEMENT, 6' BY 20'	12	EA	\$1,500.00	\$18,000.00	\$2,000.00	\$24,000.00
0048	CONVENTIONAL SEEDING, SEEDING, FERTILIZING AND MULCHING	0.1	AC	\$6,000.00	\$600.00	\$6,000.00	\$600.00
0049	INLET PROTECTION DEVICE	34	EA	\$200.00	\$6,800.00	\$175.00	\$5,950.00
0050	INLET PROTECTION DEVICE, MAINTENANCE	34	EA	\$50.00	\$1,700.00	\$50.00	\$1,700.00
0051	MOBILIZATION	1	LS	\$147,605.00	\$147,605.00	\$225,000.00	\$225,000.00
0052	PROJECT SIGN, LOSST	4	EA	\$500.00	\$2,000.00	\$500.00	\$2,000.00
0053	FLAGGER, UNIFORMED POLICE OFFICER	10	DAY	\$550.00	\$5,500.00	\$550.00	\$5,500.00
0054	FLAGGER, CERTIFIED	10	DAY	\$480.00	\$4,800.00	\$480.00	\$4,800.00
					\$2,130,000.00		\$2,284,600.50
TOTAL CONSTRUCTION COST							+7.26%
PERCENT OF ENGINEER'S ESTIMATE							