



Date May 06, 2024

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON BILL RILEY TRAIL RESURFACING FROM ASHWORTH POOL TO GRAY'S LAKE; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS TK CONCRETE, INC., TONY J. VER MEER, PRESIDENT, \$888,887.50

WHEREAS, on March 18, 2024, under Roll Call No. 24-0392, 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:

Bill Riley Trail Resurfacing from Ashworth Pool to Gray's Lake, Activity ID 112023010

The improvement includes excavation, milling, overlay, Hot Mix Asphalt (HMA) paving, Portland Cement Concrete (PCC) patching, PCC curb and gutter, storm sewer, intakes, pavement markings, traffic control, restoration, seeding, and miscellaneous associated work to complete the project, all in accordance with the contract documents including Plan File No. 662-185/217 located along the Walnut Creek Trail, the Bill Riley Trail, and other locations as directed by the City Engineer in 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.

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 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:

- TK Concrete, Inc., Pella, IA - Low Bid
- InRoads, LLC, Des Moines, IA
- Grimes Asphalt and Paving Corporation, Des Moines, IA
- Jasper Construction Services, Inc., Newton, IA
- OMG Midwest, Inc. dba Des Moines Asphalt & Paving, Ankeny, 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 02, 2024. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.



Roll Call Number

Agenda Item Number

56

Date May 06, 2024

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 TK Concrete, Inc., Tony J. Ver Meer, President, 1608 Fifield Road, Pella, IA, 50219 in the amount of \$888,887.50, 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 responsive, 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 closure of all public grounds, streets, sidewalks, alleys, bridges, culverts, overpasses, underpasses, grade crossing separations and approaches, public ways, squares, and commons for the Project.

(Council Communication No. 24-196 attached)

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 Funding Source: 2024-25 CIP, Page 44, Multi-Use Trails, PK045, Being: General Fund via ARPA transfer
pw

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
BOESEN				
COLEMAN				
GATTO				
MANDELBAUM				
SIMONSON				
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

TABULATED BY: N. Smith APPROVED BY: Phillip J. Wagon
CHECKED BY: Kyle R...

CONTRACTOR'S BID TABULATION
PROJECT: Bill Riley Trail Resurfacing from Ashworth Pool to Gray's Lake

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING (TREE REMOVAL)	4 EA	\$5,000.00	\$20,000.00	\$2,500.00	\$10,000.00	\$1,500.00	\$6,000.00	\$1,400.00	\$5,600.00
2	CLEARING AND GRUBBING	1 LS	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00
3	COMPOST, FOR ONSITE SOIL AMENDMENT	20 CY	\$75.00	\$1,500.00	\$125.00	\$2,500.00	\$200.00	\$4,000.00	\$225.00	\$4,500.00
4	EXCAVATION, CLASS 10, HAUL OFF SITE	382 CY	\$30.00	\$11,460.00	\$27.50	\$10,505.00	\$33.00	\$12,606.00	\$37.00	\$14,134.00
5	EXCAVATION, CLASS 10, REUSE ON SITE	135 CY	\$20.00	\$2,700.00	\$22.00	\$2,970.00	\$65.00	\$8,775.00	\$73.00	\$9,855.00
6	SHOULDER CONSTRUCTION, EARTH	2000 LF	\$10.00	\$20,000.00	\$7.50	\$15,000.00	\$5.50	\$11,000.00	\$6.00	\$12,000.00
7	SUBGRADE PREPARATION	869 SY	\$25.00	\$21,725.00	\$7.50	\$6,517.50	\$6.00	\$5,214.00	\$7.00	\$6,083.00
8	SUBGRADE TREATMENT, GEOCELL	200 SF	\$10.00	\$2,000.00	\$65.00	\$13,000.00	\$25.00	\$5,000.00	\$28.00	\$5,600.00
9	SUBGRADE TREATMENT, GEOGRID, TYPE 2	300 SY	\$5.00	\$1,500.00	\$7.50	\$2,250.00	\$3.50	\$1,050.00	\$4.00	\$1,200.00
10	SUBBASE, MODIFIED, 6 INCH	130 TON	\$50.00	\$6,500.00	\$65.00	\$8,450.00	\$45.00	\$5,850.00	\$50.00	\$6,500.00
11	STORM SEWER, TRENCHED, RCP, 15 INCH	40 LF	\$150.00	\$6,000.00	\$100.00	\$4,000.00	\$120.00	\$4,800.00	\$134.00	\$5,360.00
12	STORM SEWER, TRENCHED, POLYPROPYLENE, 15 INCH	120 LF	\$100.00	\$12,000.00	\$100.00	\$12,000.00	\$110.00	\$13,200.00	\$125.00	\$15,000.00
13	REMOVAL OF STORM SEWER, CMP, 48 INCH	24 LF	\$50.00	\$1,200.00	\$100.00	\$2,400.00	\$40.00	\$960.00	\$45.00	\$1,080.00
14	PIPE CULVERT, TRENCHED, RCP, 24 INCH	32 LF	\$200.00	\$6,400.00	\$150.00	\$4,800.00	\$230.00	\$7,360.00	\$256.00	\$8,192.00
15	PIPE CULVERT, TRENCHED, RCP, 48 INCH	24 LF	\$500.00	\$12,000.00	\$425.00	\$10,200.00	\$300.00	\$7,200.00	\$350.00	\$8,400.00
16	REMOVAL OF PIPE APRON, RCP, 24 INCH	4 EA	\$500.00	\$2,000.00	\$1,000.00	\$4,000.00	\$525.00	\$2,100.00	\$600.00	\$2,400.00
17	PIPE APRON, RCP, 15 INCH	1 EA	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,800.00	\$2,800.00
18	PIPE APRON, RCP, 24 INCH	4 EA	\$5,000.00	\$20,000.00	\$2,500.00	\$10,000.00	\$2,900.00	\$11,600.00	\$3,250.00	\$13,000.00
19	PIPE APRON, RCP (CONNECT TO POLYPROPYLENE), 15 INCH	4 EA	\$4,000.00	\$16,000.00	\$2,500.00	\$10,000.00	\$2,150.00	\$8,600.00	\$2,400.00	\$9,600.00
20	PIPE APRON, CMP, 8 INCH	1 EA	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00	\$550.00	\$550.00	\$611.00	\$611.00
21	FOOTING FOR CONCRETE PIPE APRON	9 EA	\$2,000.00	\$18,000.00	\$1,000.00	\$9,000.00	\$1,000.00	\$9,000.00	\$1,200.00	\$10,800.00
22	PIPE APRON, GUARD	5 EA	\$2,000.00	\$10,000.00	\$2,000.00	\$10,000.00	\$1,375.00	\$6,875.00	\$1,600.00	\$8,000.00
23	CLEANING AND INSPECTING OF STORM SEWER	1 LS	\$1,500.00	\$1,500.00	\$2,500.00	\$2,500.00	\$1,500.00	\$1,500.00	\$1,700.00	\$1,700.00
24	INTAKE, SW-505, PRECAST CONCRETE	1 EA	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$8,850.00	\$8,850.00	\$10,000.00	\$10,000.00
25	INTAKE, SW-512, 24 INCH, POLYPROPYLENE OR EQUIV.	5 EA	\$3,000.00	\$15,000.00	\$3,000.00	\$15,000.00	\$5,000.00	\$25,000.00	\$5,600.00	\$28,000.00
26	CURB AND GUTTER, 2 FEET, 6 INCH	120 LF	\$100.00	\$12,000.00	\$75.00	\$9,000.00	\$80.00	\$9,600.00	\$48.00	\$5,760.00
27	HMA, SURFACE, 1/2 INCH, PG 58-28S, ST, NO FRICTION	1856 TON	\$150.00	\$278,400.00	\$140.00	\$259,840.00	\$142.00	\$263,552.00	\$137.00	\$254,272.00
28	FULL DEPTH PATCH, HMA, 6 INCH	311 SY	\$250.00	\$77,750.00	\$79.50	\$24,724.50	\$175.00	\$54,425.00	\$75.00	\$23,325.00
29	FULL DEPTH PATCH, PCC, 6 INCH	100 SY	\$250.00	\$25,000.00	\$120.00	\$12,000.00	\$105.00	\$10,500.00	\$105.00	\$10,500.00
30	PAVEMENT MILLING	11176 SY	\$7.00	\$78,232.00	\$6.75	\$75,438.00	\$6.75	\$75,438.00	\$7.75	\$86,614.00
31	PAVEMENT MILLING, SHOULDER	40 SY	\$20.00	\$800.00	\$10.00	\$400.00	\$110.00	\$4,400.00	\$41.00	\$1,640.00
32	PAVEMENT REMOVAL	811 SY	\$30.00	\$24,330.00	\$17.50	\$14,192.50	\$18.00	\$14,598.00	\$10.00	\$8,110.00
33	CRACK CLEANING AND FILLING, EMULSION	1 LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$4,725.00	\$4,725.00	\$12,000.00	\$12,000.00
34	ASPHALT EMULSION FOR FOG SEAL (PAVEMENT)	3050 GAL	\$8.00	\$24,400.00	\$7.00	\$21,350.00	\$3.50	\$10,675.00	\$3.00	\$9,150.00
35	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	1 LS	\$2,000.00	\$2,000.00	\$8,500.00	\$8,500.00	\$1,575.00	\$1,575.00	\$7,800.00	\$7,800.00
36	TEMPORARY TRAFFIC CONTROL	1 LS	\$15,000.00	\$15,000.00	\$25,000.00	\$25,000.00	\$14,700.00	\$14,700.00	\$22,300.00	\$22,300.00
37	TRAFFIC SIGNS	4 EA	\$200.00	\$800.00	\$700.00	\$2,800.00	\$140.00	\$560.00	\$556.00	\$2,224.00
38	PERFORATED SQUARE STEEL TUBE POST, 1 3/4 INCH PERFORATED SQUARE STEEL TUBE POST ANCHOR, 1 3/4 INCH	10 LF	\$25.00	\$250.00	\$85.00	\$850.00	\$20.00	\$200.00	\$67.00	\$670.00
39	HYDRAULIC SEEDING, FERTILIZING, AND BFM MULCHING	2 EA	\$250.00	\$500.00	\$300.00	\$600.00	\$150.00	\$300.00	\$225.00	\$450.00
40	(SUDAS TYPE 1)	0.5 AC	\$7,500.00	\$3,750.00	\$7,500.00	\$3,750.00	\$6,000.00	\$3,000.00	\$6,500.00	\$3,250.00

TK Concrete, Inc.
Pella, IA

BID SECURITY
10% Bid Bond

BID PRICE

UNIT
PRICE AMOUNT

InRoads, LLC
Des Moines, IA

BID SECURITY
10% Bid Bond

BID PRICE

UNIT
PRICE AMOUNT

Grimes Asphalt and Paving
Corporation
Des Moines, IA

BID SECURITY
10% Bid Bond

BID PRICE

UNIT
PRICE AMOUNT

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
41	HYDRAULIC SEEDING, FERTILIZING AND MBFM MULCHING, WOODLAND SHADED MIX	0.5 AC	\$10,000.00	\$5,000.00	\$9,500.00	\$4,750.00	\$6,000.00	\$3,000.00	\$6,500.00	\$3,250.00
42	TEMPORARY RECP, TYPE 3.B, NATURAL FIBERS ONLY	200 SY	\$20.00	\$4,000.00	\$6.50	\$1,300.00	\$2.50	\$500.00	\$3.00	\$600.00
43	WATTLE, STRAW, 9 INCH	1000 LF	\$3.00	\$3,000.00	\$2.50	\$2,500.00	\$2.00	\$2,000.00	\$2.25	\$2,250.00
44	WATTLE, REMOVAL	1000 LF	\$1.00	\$1,000.00	\$0.75	\$750.00	\$0.30	\$300.00	\$1.00	\$1,000.00
45	EROSION STONE	30 TON	\$60.00	\$1,800.00	\$100.00	\$3,000.00	\$176.00	\$5,280.00	\$178.00	\$5,340.00
46	RIP RAP, CLASS E	330 TON	\$80.00	\$26,400.00	\$100.00	\$33,000.00	\$116.00	\$38,280.00	\$117.00	\$38,610.00
47	SILT FENCE	1000 LF	\$3.00	\$3,000.00	\$3.00	\$3,000.00	\$1.84	\$1,840.00	\$2.00	\$2,000.00
48	SILT FENCE, REMOVAL	1000 LF	\$1.00	\$1,000.00	\$0.50	\$500.00	\$0.26	\$260.00	\$0.50	\$500.00
49	STABILIZED CONSTRUCTION ENTRANCE	300 SY	\$25.00	\$7,500.00	\$22.50	\$6,750.00	\$50.00	\$15,000.00	\$56.00	\$16,800.00
50	EROSION CONTROL MULCHING, HDYROMULCHING	1 AC	\$3,000.00	\$3,000.00	\$2,750.00	\$2,750.00	\$2,520.00	\$2,520.00	\$2,700.00	\$2,700.00
51	REMOVAL OF HANDRAIL	100 LF	\$25.00	\$2,500.00	\$25.00	\$2,500.00	\$15.00	\$1,500.00	\$20.00	\$2,000.00
52	SAFTEY RAIL, GALVANIZED	100 LF	\$150.00	\$15,000.00	\$315.00	\$31,500.00	\$300.00	\$30,000.00	\$325.00	\$32,500.00
53	DEMOLITION	1 LS	\$5,000.00	\$5,000.00	\$15,000.00	\$15,000.00	\$8,500.00	\$8,500.00	\$9,500.00	\$9,500.00
54	MOBILIZATION	1 LS	\$74,603.00	\$74,603.00	\$100,000.00	\$100,000.00	\$64,000.00	\$64,000.00	\$37,000.00	\$37,000.00
55	CONCRETE WASHOUT	1 LS	\$2,000.00	\$2,000.00	\$2,750.00	\$2,750.00	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00
56	ARTICULATING CONCRETE BLOCKS	360 SF	\$50.00	\$18,000.00	\$17.50	\$6,300.00	\$88.00	\$31,680.00	\$140.00	\$50,400.00
57	CAST IN PLACE CONCRETE HEADWALLS	1 LS	\$18,000.00	\$18,000.00	\$17,500.00	\$17,500.00	\$45,000.00	\$45,000.00	\$50,000.00	\$50,000.00
TOTAL CONSTRUCTION COST				\$970,000.00		\$888,887.50		\$904,498.00		\$907,430.00
PERCENT OF ENGINEER'S ESTIMATE						-8.36%		-6.75%		-6.45%
						Low				

TABULATED BY: N. Smith APPROVED BY: *Phillip J. Wagen*
CHECKED BY: *Sh. Re*

Jasper Construction
Services, Inc.
Newton, IA

OMG Midwest, Inc. dba Des
Moines Asphalt & Paving
Ankeny, IA

CONTRACTOR'S BID TABULATION

PROJECT: Bill Riley Trail Resurfacing from Ashworth Pool to Gray's Lake

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

-----ESTIMATE-----

BID PRICE

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING (TREE REMOVAL)	4 EA	\$5,000.00	\$20,000.00	\$4,000.00	\$16,000.00	\$5,500.00	\$22,000.00
2	CLEARING AND GRUBBING	1 LS	\$10,000.00	\$10,000.00	\$34,000.00	\$34,000.00	\$46,200.00	\$46,200.00
3	COMPOST, FOR ONSITE SOIL AMENDMENT	20 CY	\$75.00	\$1,500.00	\$200.00	\$4,000.00	\$97.90	\$1,958.00
4	EXCAVATION, CLASS 10, HAUL OFF SITE	382 CY	\$30.00	\$11,460.00	\$70.00	\$26,740.00	\$53.25	\$20,341.50
5	EXCAVATION, CLASS 10, REUSE ON SITE	135 CY	\$20.00	\$2,700.00	\$50.00	\$6,750.00	\$107.50	\$14,512.50
6	SHOULDER CONSTRUCTION, EARTH	2000 LF	\$10.00	\$20,000.00	\$12.00	\$24,000.00	\$8.50	\$17,000.00
7	SUBGRADE PREPARATION	869 SY	\$25.00	\$21,725.00	\$10.00	\$8,690.00	\$8.50	\$7,386.50
8	SUBGRADE TREATMENT, GEOCELL	200 SF	\$10.00	\$2,000.00	\$15.00	\$3,000.00	\$22.50	\$4,500.00
9	SUBGRADE TREATMENT, GEOGRID, TYPE 2	300 SY	\$5.00	\$1,500.00	\$6.00	\$1,800.00	\$7.50	\$2,250.00
10	SUBBASE, MODIFIED, 6 INCH	130 TON	\$50.00	\$6,500.00	\$50.00	\$6,500.00	\$86.50	\$11,245.00
11	STORM SEWER, TRENCHED, RCP, 15 INCH	40 LF	\$150.00	\$6,000.00	\$100.00	\$4,000.00	\$111.25	\$4,450.00
12	STORM SEWER, TRENCHED, POLYPROPYLENE, 15 INCH	120 LF	\$100.00	\$12,000.00	\$65.00	\$7,800.00	\$111.25	\$13,350.00
13	REMOVAL OF STORM SEWER, CMP, 48 INCH	24 LF	\$50.00	\$1,200.00	\$60.00	\$1,440.00	\$111.25	\$2,670.00
14	PIPE CULVERT, TRENCHED, RCP, 24 INCH	32 LF	\$200.00	\$6,400.00	\$125.00	\$4,000.00	\$167.00	\$5,344.00
15	PIPE CULVERT, TRENCHED, RCP, 48 INCH	24 LF	\$500.00	\$12,000.00	\$350.00	\$8,400.00	\$475.00	\$11,400.00
16	REMOVAL OF PIPE APRON, RCP, 24 INCH	4 EA	\$500.00	\$2,000.00	\$500.00	\$2,000.00	\$1,390.00	\$5,560.00
17	PIPE APRON, RCP, 15 INCH	1 EA	\$4,000.00	\$4,000.00	\$1,500.00	\$1,500.00	\$3,625.00	\$3,625.00
18	PIPE APRON, RCP, 24 INCH	4 EA	\$5,000.00	\$20,000.00	\$2,000.00	\$8,000.00	\$4,275.00	\$17,100.00
19	PIPE APRON, RCP (CONNECT TO POLYPROPYLENE), 15 INCH	4 EA	\$4,000.00	\$16,000.00	\$2,200.00	\$8,800.00	\$3,055.55	\$12,222.20
20	PIPE APRON, CMP, 8 INCH	1 EA	\$2,000.00	\$2,000.00	\$500.00	\$500.00	\$1,666.00	\$1,666.00
21	FOOTING FOR CONCRETE PIPE APRON	9 EA	\$2,000.00	\$18,000.00	\$600.00	\$5,400.00	\$1,950.00	\$17,550.00
22	PIPE APRON, GUARD	5 EA	\$2,000.00	\$10,000.00	\$2,000.00	\$10,000.00	\$2,500.00	\$12,500.00
23	CLEANING AND INSPECTING OF STORM SEWER	1 LS	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$2,556.00	\$2,556.00
24	INTAKE, SW-505, PRECAST CONCRETE	1 EA	\$7,500.00	\$7,500.00	\$8,000.00	\$8,000.00	\$8,335.00	\$8,335.00
25	INTAKE, SW-512, 24 INCH, POLYPROPYLENE OR EQUIV.	5 EA	\$3,000.00	\$15,000.00	\$2,000.00	\$10,000.00	\$5,000.00	\$25,000.00
26	CURB AND GUTTER, 2 FEET, 6 INCH	120 LF	\$100.00	\$12,000.00	\$100.00	\$12,000.00	\$85.00	\$10,200.00
27	HMA, SURFACE, 1/2 INCH, PG 58-28S, ST, NO FRICTION	1856 TON	\$150.00	\$278,400.00	\$145.00	\$269,120.00	\$125.00	\$232,000.00
28	FULL DEPTH PATCH, HMA, 6 INCH	311 SY	\$250.00	\$77,750.00	\$63.00	\$19,593.00	\$115.00	\$35,765.00
29	FULL DEPTH PATCH, PCC, 6 INCH	100 SY	\$250.00	\$25,000.00	\$125.00	\$12,500.00	\$140.00	\$14,000.00
30	PAVEMENT MILLING	11176 SY	\$7.00	\$78,232.00	\$6.60	\$73,761.60	\$8.00	\$89,408.00
31	PAVEMENT MILLING, SHOULDER	40 SY	\$20.00	\$800.00	\$7.20	\$288.00	\$44.45	\$1,778.00
32	PAVEMENT REMOVAL	811 SY	\$30.00	\$24,330.00	\$25.00	\$20,275.00	\$16.70	\$13,543.70
33	CRACK CLEANING AND FILLING, EMULSION	1 LS	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00
34	ASPHALT EMULSION FOR FOG SEAL (PAVEMENT)	3050 GAL	\$8.00	\$24,400.00	\$6.60	\$20,130.00	\$10.50	\$32,025.00
35	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	1 LS	\$2,000.00	\$2,000.00	\$7,500.00	\$7,500.00	\$1,105.00	\$1,105.00
36	TEMPORARY TRAFFIC CONTROL	1 LS	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00	\$33,050.00	\$33,050.00
37	TRAFFIC SIGNS	4 EA	\$200.00	\$800.00	\$500.00	\$2,000.00	\$556.00	\$2,224.00
38	PERFORATED SQUARE STEEL TUBE POST, 1 3/4 INCH	10 LF	\$25.00	\$250.00	\$50.00	\$500.00	\$67.00	\$670.00
39	PERFORATED SQUARE STEEL TUBE POST ANCHOR, 1 3/4 INCH	2 EA	\$250.00	\$500.00	\$200.00	\$400.00	\$225.00	\$450.00
40	HYDRAULIC SEEDING, FERTILIZING, AND BFM MULCHING (SUDAS TYPE 1)	0.5 AC	\$7,500.00	\$3,750.00	\$6,000.00	\$3,000.00	\$9,000.00	\$4,500.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
41	HYDRAULIC SEEDING, FERTILIZING AND MBFM MULCHING, WOODLAND SHADED MIX	0.5 AC	\$10,000.00	\$5,000.00	\$5,500.00	\$2,750.00	\$11,111.25	\$5,555.63
42	TEMPORARY RECP, TYPE 3.B, NATURAL FIBERS ONLY	200 SY	\$20.00	\$4,000.00	\$6.00	\$1,200.00	\$5.60	\$1,120.00
43	WATTLE, STRAW, 9 INCH	1000 LF	\$3.00	\$3,000.00	\$2.50	\$2,500.00	\$2.50	\$2,500.00
44	WATTLE, REMOVAL	1000 LF	\$1.00	\$1,000.00	\$1.00	\$1,000.00	\$1.25	\$1,250.00
45	EROSION STONE	30 TON	\$60.00	\$1,800.00	\$100.00	\$3,000.00	\$111.25	\$3,337.50
46	RIP RAP, CLASS E	330 TON	\$80.00	\$26,400.00	\$125.00	\$41,250.00	\$111.25	\$36,712.50
47	SILT FENCE	1000 LF	\$3.00	\$3,000.00	\$2.50	\$2,500.00	\$2.25	\$2,250.00
48	SILT FENCE, REMOVAL	1000 LF	\$1.00	\$1,000.00	\$1.00	\$1,000.00	\$0.25	\$250.00
49	STABILIZED CONSTRUCTION ENTRANCE	300 SY	\$25.00	\$7,500.00	\$25.00	\$7,500.00	\$30.35	\$9,105.00
50	EROSION CONTROL MULCHING, HDYROMULCHING	1 AC	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,335.00	\$3,335.00
51	REMOVAL OF HANDRAIL	100 LF	\$25.00	\$2,500.00	\$15.00	\$1,500.00	\$16.50	\$1,650.00
52	SAFTEY RAIL, GALVANIZED	100 LF	\$150.00	\$15,000.00	\$200.00	\$20,000.00	\$360.00	\$36,000.00
53	DEMOLITION	1 LS	\$5,000.00	\$5,000.00	\$12,500.00	\$12,500.00	\$16,800.00	\$16,800.00
54	MOBILIZATION	1 LS	\$74,603.00	\$74,603.00	\$100,000.00	\$100,000.00	\$54,000.00	\$54,000.00
55	CONCRETE WASHOUT	1 LS	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00	\$2,800.00	\$2,800.00
56	ARTICULATING CONCRETE BLOCKS	360 SF	\$50.00	\$18,000.00	\$125.00	\$45,000.00	\$15.25	\$5,490.00
57	CAST IN PLACE CONCRETE HEADWALLS	1 LS	\$18,000.00	\$18,000.00	\$15,000.00	\$15,000.00	\$19,500.00	\$19,500.00
TOTAL CONSTRUCTION COST				\$970,000.00		\$939,087.60		\$972,596.03
PERCENT OF ENGINEER'S ESTIMATE						-3.19%		0.27%