



CITY of NOVI CITY COUNCIL

Agenda Item 5
June 1, 2009

SUBJECT: Approval to award a construction contract for the 2009 Pathway Construction project to Audia Concrete Construction, Inc., the low bidder, in the amount of \$144,485.68.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *BTC*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$49,383.50 (Eleven Mile Road) \$9,603.50 (Ten Mile Road) \$57,331.18 (Haggerty Road) \$28,167.50 (Short Segments—Clark St) \$144,485.68 TOTAL
AMOUNT BUDGETED	\$103,000 (Eleven Mile Road) \$45,600 (Ten Mile Road) \$102,000 (Haggerty Road) \$25,000 (Short Segments—Clark St) \$275,600 TOTAL
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	204-204.00-974.410 (Eleven Mile Road) 204-204.00-974.411 (Ten Mile Road) 204-204.00-974.412 (Haggerty Road) 204-204.00-974.409 (Short Segments—Clark St)

BACKGROUND INFORMATION:

The purpose of this project is to construct six gaps in the Novi pathway system totaling approximately 3,100 linear feet along portions of Ten Mile Road (north side just west of Haggerty), Haggerty Road (between Ten Mile Road and Nine Mile Road), Eleven Mile Road (south side between Taft and Clark) and Clark Street (north of Eleven Mile). These locations are shown in more detail on the attached map.

Five bids were received and opened on May 20, 2009 following a public bid solicitation period. The low bidder is Audia Concrete Construction, Inc. Audia's bid is recommended as being in the best interest of the City as it is responsive (i.e., Audia has complied with all requirements of the bidding instructions) and it is the lowest price. (Spalding DeDecker's award recommendation letter dated May 21, 2009 is attached). A summary of the five bids is as follows:

Company	Total Base Bid (excluding alternates)
Audia Construction	\$144,485.68
Koala T Construction	\$152,135.00
Goretski Construction	\$159,295.50
Action Traffic Maintenance	\$230,221.78
Italia Construction	\$303,899.50

The project was bid with two alternates in addition to the base bid. Alternate 1 includes a pathway along the Haggerty Road frontage of the shopping plaza at the southwest corner of Haggerty Road

and Ten Mile Road. Alternate 2 includes the sidewalk ramp upgrades for the intersection of Haggerty and Ten Mile in all four quadrants (which includes cost sharing from Farmington Hills). Negotiations with the shopping plaza property owner are ongoing; however, an easement has not been obtained. The northernmost Haggerty Road segment cannot be constructed without the easement. The intersection improvements at Haggerty and Ten Mile must also be deferred until the easement has been obtained due to pathway connectivity in the intersection (ramps must have a receiving ramp on the opposite side of the street). If the easement is granted in the near future, both alternates will be constructed with this project. For the previously stated reasons, staff is not recommending award of the alternates at this time.

The original budget estimate for the projects included an extensive amount of pedestrian signal upgrade—the scope of which was decreased through discussions with the Road Commission staff during the design phase. In addition to the decreased signal work, extremely favorable bidding conditions were encountered that decreased the project costs such that approximately \$95,000 remains available after award of the project (including engineering and alternates). The available funds could be used to offset increased construction costs associated with ADA accessible ramp improvements required as part of the federally funded projects on Nine Mile Road and Meadowbrook Road.

Staff is recommending the award of the base bid in the amount of \$144,485.68. The alternate bids in the amount of \$19,658 are not recommended for award until such time that easement acquisition is complete. Construction is scheduled to begin in June/July 2009 and will be completed in October/November 2009.

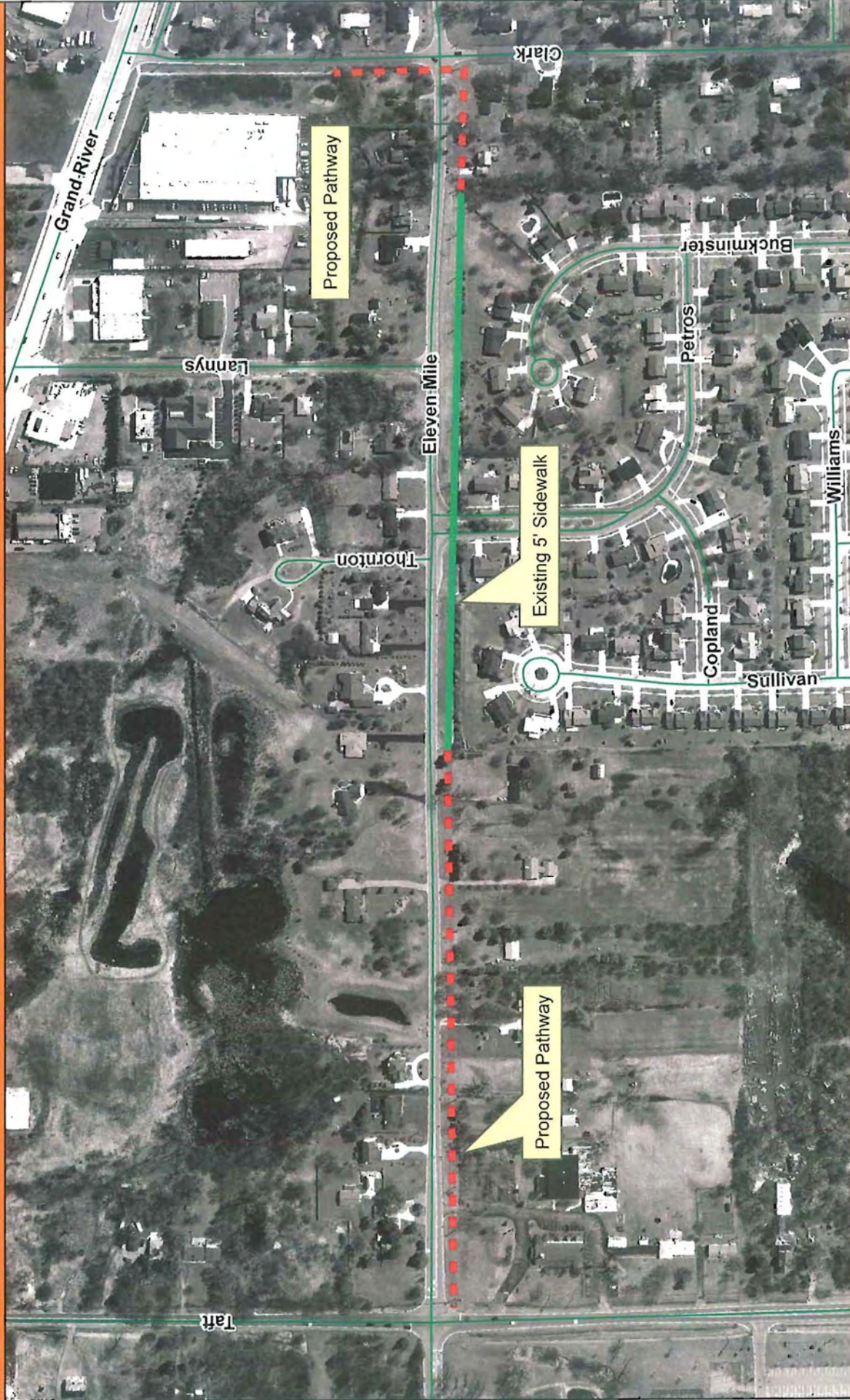
RECOMMENDED ACTION: Approval to award a construction contract for the 2009 Pathway Construction project to Audia Concrete Construction, Inc., the low bidder, in the amount of \$144,485.68.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

Location Map

Eleven Mile Pathway Gaps--Clark Street to Taft Road



FEET

1 INCH = 315 FEET

MAP POINT DATE: 12/26/06

CITY OF NOVI
ENGINEERING DIVISION
4575 W. TEN MILE RD
NOVI, MI 48375-3024
(248) 347-5454
MAP AUTHOR: Brian Coburn, PE

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent accurate sources available to the benefit of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Location Map
Ten Mile and Haggerty Pathway Gaps (Northern Portion)



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CITY OF NOVI
ENGINEERING DIVISION
46175 W TEN MILE RD
NOVI, MI 48375-3024
(248) 347-0454
MAP AUTHOR: Brian Coburn, PE



CITY OF NOVI
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46175 W TEN MILE RD
NOVI, MI 48375-3024
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Location Map
Haggerty Pathway Gap (Southern Portion)



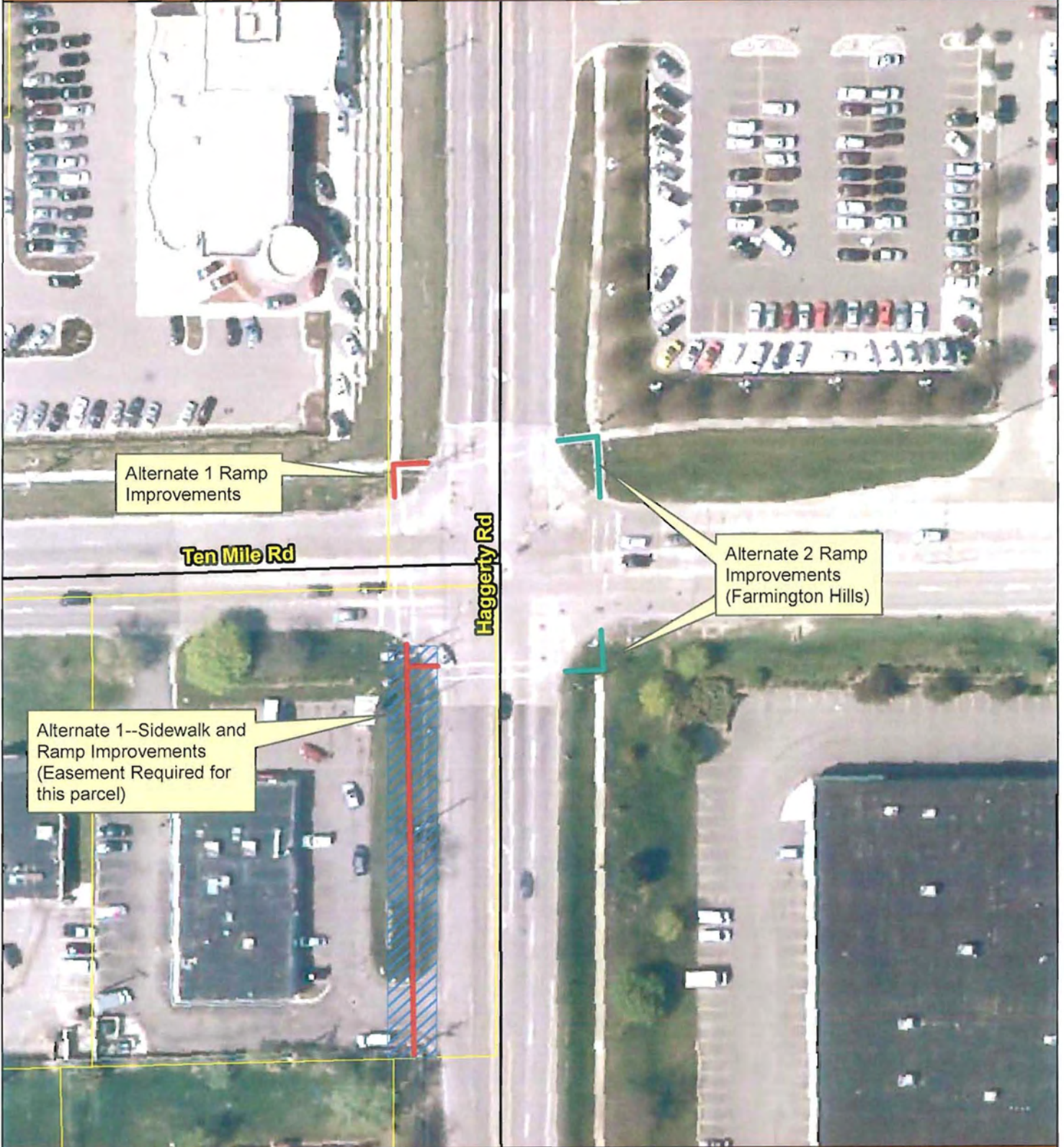
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1 INCH = 275 FEET
Map Project Date: 04/2014

CITY OF NOVI
ENGINEERING DIVISION
40175 W TEN MILE RD
NOVI, MI 48375-3024
(248) 347-0654
MAP AUTHOR: Brian Coburn PE

Map Showing Easement Area and Alternates 1 and 2

2009 Pathways Program



Alternate 1 Ramp Improvements

Ten Mile Rd

Haggerty Rd

Alternate 2 Ramp Improvements (Farmington Hills)

Alternate 1--Sidewalk and Ramp Improvements (Easement Required for this parcel)

CITY OF NOVI

ENGINEERING DIVISION
 45175 W TEN MILE RD
 NOVI, MI 48375-3024
 (248) 347-0454
 MAP AUTHOR: Brian Coburn, PE

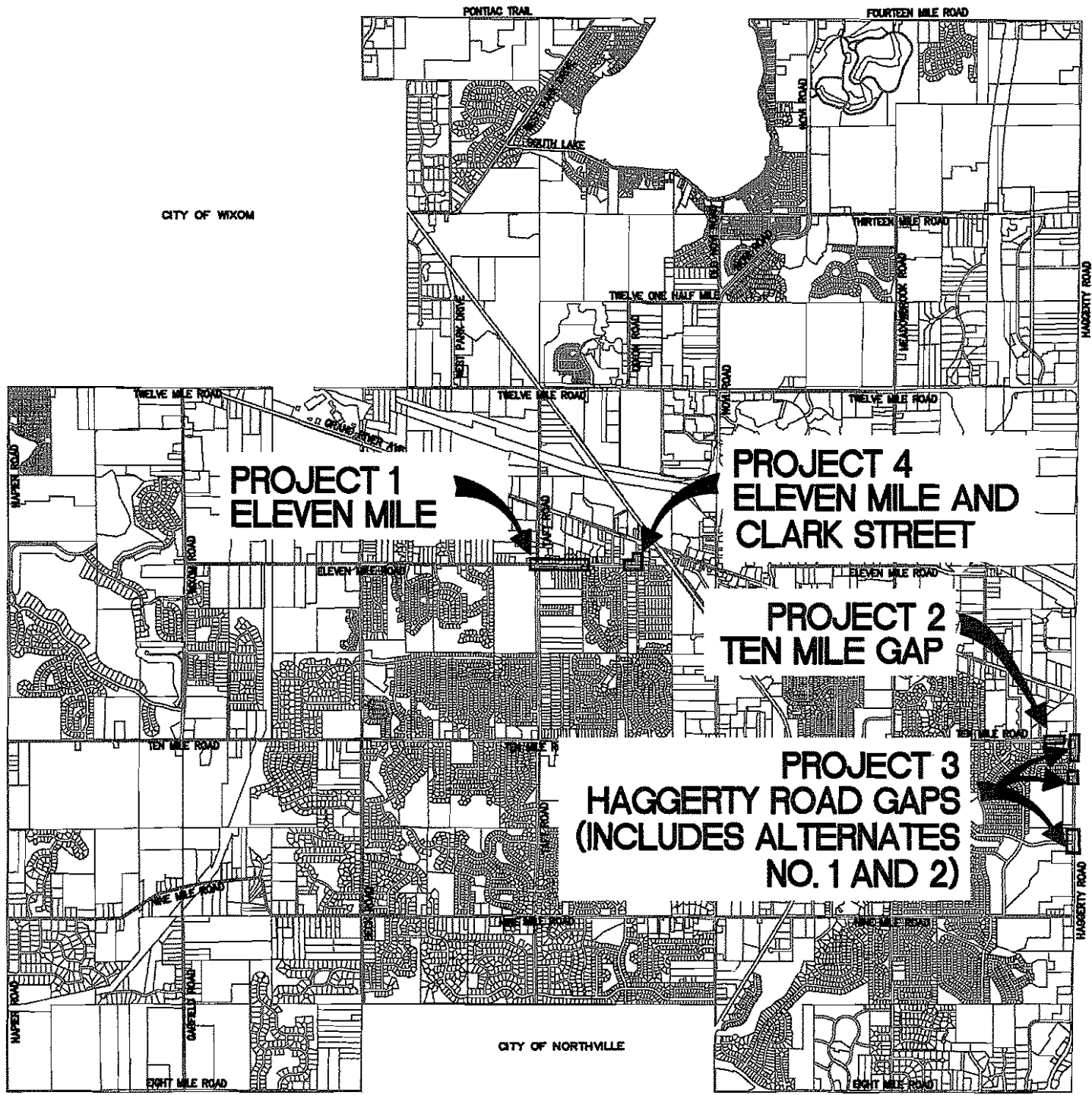


1 INCH = 75 FEET

MAP PRINT DATE: 5/22/09

MAP INTERPRETATION NOTICE

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CITY OF WIXOM

CITY OF NORTHVILLE

**PROJECT 1
ELEVEN MILE**

**PROJECT 4
ELEVEN MILE AND
CLARK STREET**

**PROJECT 2
TEN MILE GAP**

**PROJECT 3
HAGGERTY ROAD GAPS
(INCLUDES ALTERNATES
NO. 1 AND 2)**

2009 PATHWAY CONSTRUCTION



SPALDING DEDECKER ASSOCIATES, INC.

905 South Boulevard East • Rochester Hills • Michigan 48307 • Tel 248 844 5400 • Fax 248 844 5404

May 21, 2009

Mr. Rob Hayes, PE, City Engineer
City of Novi
26300 Delwal Drive
Novi, Michigan 48375

Re: **Recommendation for Award**
2009 Pathway Construction
SDA Project No.: RB08-014

Dear Mr. Hayes:

On May 20 at 3:00 p.m. construction bids were opened and publicly read at the City of Novi for the 2009 Pathways Construction project.

The City Clerk's office received five (5) sealed bids for this project. The apparent low bidder, Audia Concrete Construction, Inc. submitted a corrected bid price of \$144,485.68 for the construction of pathway segment projects 1-4 (base bid), and a bid price of \$19,658.12 for alternates 1 and 2 for a total bid price of \$164,143.80. Subsequent to the bid opening, Spalding DeDecker Associates (SDA) reviewed all of the bids received and prepared the attached bid tabulation for the project.

Submitted unit prices were reviewed against those being currently seen in the construction industry. SDA believes the unit prices are within an acceptable range for this type of work. SDA has also reviewed contractor qualifications and contacted references as provided from Audia Concrete Construction, Inc. Based upon our review of the submitted qualifications and a check of the references, SDA finds that Audia Concrete Construction, Inc. is qualified to perform the required construction.

It is our recommendation that the project be awarded to the low bidder, Audia Concrete Construction, Inc., for the 2009 Pathways Construction project. Upon award by the City Council, our office will coordinate the execution of the Contract Agreement, Bonds and Insurance Policy as well as any other necessary documents with the selected contractor, and issuance of a Notice to Proceed upon execution of the contract documents.

Please do not hesitate to contact me should you have questions.

Very Truly Yours,
SPALDING DEDECKER ASSOCIATES, INC.

David P. Eno, P.E.
Project Manager

enclosure: Bid Tabulation

cc. Ms. Ronetta Audia - Vice President, Audia Concrete Construction, Inc.

Engineering Consultants

Infrastructure • Land Development • Surveying



SPALDING DEDECKER ASSOCIATES, INC.

905 South Boulevard East • Rochester Hills • Michigan 48307 • Tel 248 844 5400 • Fax 248 844 5404

Project: Novi 2009 Pathways Construction
 Location: City of Novi; Various sites
 Work: Construct 5' or 8' concrete pathway in gaps
within network; add or improve ramps at intersections

Date: 5/20/2009
 Project No. RB08-014
 By: DPE
 Reviewed: _____

BID TABULATION

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
Project 1 - South side of Eleven Mile Road - Taft to Cedar Springs (~1,330 LFT)															
1	Mobilization (5% Maximum)	1	LS	3,293.60	\$ 3,293.60	500.00	\$ 500.00	1,400.00	\$ 1,400.00	2,850.00	\$ 2,850.00	3,800.00	\$ 3,800.00	1,400.00	\$ 1,400.00
2	Pre-construction audio-visual	1	LS	1,000.00	\$ 1,000.00	1,185.00	\$ 1,185.00	450.00	\$ 450.00	1,185.00	\$ 1,185.00	1,300.00	\$ 1,300.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	2,000.00	\$ 2,000.00	1,500.00	\$ 1,500.00	500.00	\$ 500.00	200.00	\$ 200.00	2,000.00	\$ 2,000.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	2,500.00	\$ 2,500.00	700.00	\$ 700.00	2,100.00	\$ 2,100.00	1,000.00	\$ 1,000.00	7,300.00	\$ 7,300.00	3,000.00	\$ 3,000.00
5	Tree Protection	9	EA	250.00	\$ 2,250.00	50.00	\$ 450.00	100.00	\$ 900.00	100.00	\$ 900.00	42.22	\$ 379.98	200.00	\$ 1,800.00
6	Pavement, Rem	325	SYD	10.00	\$ 3,250.00	9.00	\$ 2,925.00	5.85	\$ 1,901.25	9.00	\$ 2,925.00	4.20	\$ 1,365.00	40.00	\$ 13,000.00
7	Curb and Gutter, Rem	50	LF	10.00	\$ 500.00	10.00	\$ 500.00	26.00	\$ 1,300.00	5.00	\$ 250.00	3.70	\$ 185.00	30.00	\$ 1,500.00
8	Sidewalk, Rem	9	SYD	8.00	\$ 72.00	9.00	\$ 81.00	18.00	\$ 162.00	9.00	\$ 81.00	19.00	\$ 171.00	40.00	\$ 360.00
9	Pathway Grading	1240	LFT	4.00	\$ 4,960.00	4.00	\$ 4,960.00	2.50	\$ 3,100.00	4.00	\$ 4,860.00	8.80	\$ 10,912.00	5.00	\$ 6,200.00
10	Aggregate Base, 6 inch	1150	SYD	6.00	\$ 6,900.00	2.25	\$ 2,587.50	4.50	\$ 5,175.00	6.00	\$ 6,900.00	8.30	\$ 9,545.00	16.00	\$ 18,400.00
11	4-inch Concrete Sidewalk	8250	SFT	3.00	\$ 18,750.00	2.40	\$ 15,000.00	2.80	\$ 16,250.00	2.50	\$ 15,625.00	3.14	\$ 19,625.00	4.00	\$ 25,000.00
12	6-inch Concrete Driveway	3200	SFT	4.00	\$ 12,800.00	2.60	\$ 8,320.00	3.00	\$ 9,600.00	3.00	\$ 9,600.00	3.70	\$ 11,840.00	6.00	\$ 19,200.00
13	ADA Compliant Sidewalk Ramp	420	SFT	4.00	\$ 1,680.00	3.00	\$ 1,260.00	2.80	\$ 1,176.00	6.25	\$ 2,625.00	6.60	\$ 2,772.00	6.00	\$ 2,520.00
14	ADA Detectable Warning Plate	32	SFT	30.00	\$ 960.00	20.00	\$ 640.00	22.00	\$ 704.00	25.00	\$ 800.00	34.00	\$ 1,088.00	30.00	\$ 960.00
15	Drainage Modifications	1	LS	2,500.00	\$ 2,500.00	2,800.00	\$ 2,800.00	3,300.00	\$ 3,300.00	1,500.00	\$ 1,500.00	3,400.00	\$ 3,400.00	3,000.00	\$ 3,000.00
16	Regrade Ditch	50	LFT	3.00	\$ 150.00	10.00	\$ 500.00	10.00	\$ 500.00	10.00	\$ 500.00	19.00	\$ 950.00	20.00	\$ 1,000.00
17	Dr Structure Cover, Adj, Case 1	2	EA	400.00	\$ 800.00	400.00	\$ 800.00	400.00	\$ 800.00	250.00	\$ 500.00	250.00	\$ 500.00	300.00	\$ 600.00
18	Dr Structure Cover, Adj, Case 2	1	EA	300.00	\$ 300.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
19	Seeding and Mulching	1500	SYD	3.00	\$ 4,500.00	2.85	\$ 4,275.00	2.00	\$ 3,000.00	3.00	\$ 4,500.00	3.20	\$ 4,800.00	10.00	\$ 15,000.00
Total - Project 1:					\$ 69,165.60		\$ 49,383.50		\$ 52,718.25		\$ 57,151.00		\$ 82,272.98		\$ 117,240.00
Project 2 - North side of Ten Mile Road, west of Haggerty (~300 LFT)															
1	Mobilization (5% Maximum)	1	LS	530.50	\$ 530.50	100.00	\$ 100.00	1,400.00	\$ 1,400.00	500.00	\$ 500.00	700.00	\$ 700.00	1,000.00	\$ 1,000.00
2	Pre-construction audio-visual	1	LS	250.00	\$ 250.00	725.00	\$ 725.00	150.00	\$ 150.00	725.00	\$ 725.00	825.00	\$ 825.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	500.00	\$ 500.00	300.00	\$ 300.00	100.00	\$ 100.00	250.00	\$ 250.00	190.00	\$ 190.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	500.00	\$ 500.00	700.00	\$ 700.00	400.00	\$ 400.00	500.00	\$ 500.00	1,660.00	\$ 1,660.00	3,000.00	\$ 3,000.00
5	Curb and Gutter, Rem	8	LF	10.00	\$ 80.00	10.00	\$ 80.00	26.00	\$ 208.00	5.00	\$ 40.00	23.00	\$ 184.00	30.00	\$ 240.00
6	Pathway Grading	310	LFT	4.00	\$ 1,240.00	3.80	\$ 1,178.00	2.50	\$ 775.00	5.00	\$ 1,550.00	5.70	\$ 1,767.00	5.00	\$ 1,550.00
7	Aggregate Base, 6 inch	190	SYD	6.00	\$ 1,140.00	2.25	\$ 427.50	4.50	\$ 855.00	6.00	\$ 1,140.00	8.00	\$ 1,520.00	16.00	\$ 3,040.00
8	4-inch Concrete Sidewalk	1520	SFT	3.00	\$ 4,560.00	2.40	\$ 3,648.00	2.60	\$ 3,952.00	2.50	\$ 3,800.00	3.14	\$ 4,772.80	4.00	\$ 6,080.00
9	ADA Compliant Sidewalk Ramp	35	SFT	4.00	\$ 140.00	3.00	\$ 105.00	2.80	\$ 98.00	6.25	\$ 218.75	9.20	\$ 322.00	6.00	\$ 210.00

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
10	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	630.00	\$ 630.00	300.00	\$ 300.00
11	Dr Structure Cover, Adj, Case 2	2	EA	300.00	\$ 600.00	400.00	\$ 800.00	400.00	\$ 800.00	250.00	\$ 500.00	730.00	\$ 1,460.00	300.00	\$ 600.00
12	Seeding and Mulching	400	SYD	3.00	\$ 1,200.00	2.85	\$ 1,140.00	2.00	\$ 800.00	3.00	\$ 1,200.00	3.50	\$ 1,400.00	10.00	\$ 4,000.00
Total - Project 2:					\$ 11,140.50		\$ 9,603.50		\$ 9,938.00		\$ 10,673.75		\$ 15,430.80		\$ 24,020.00
Project 3 - Base Bid - Haggerty, segments from Village Woods to Ten Mile (~1,160 LFT)															
1	Mobilization (5% Maximum)	1	LS	3,465.95	\$ 3,465.95	567.67	\$ 567.67	2,500.00	\$ 2,500.00	3,000.00	\$ 3,000.00	3,300.00	\$ 3,300.00	6,000.00	\$ 6,000.00
2	Pre-construction audio-visual	1	LS	1,500.00	\$ 1,500.00	950.00	\$ 950.00	350.00	\$ 350.00	925.00	\$ 925.00	1,020.00	\$ 1,020.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,500.00	\$ 1,500.00	800.00	\$ 800.00	400.00	\$ 400.00	600.00	\$ 600.00	950.00	\$ 950.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	5,000.00	\$ 5,000.00	700.00	\$ 700.00	2,000.00	\$ 2,000.00	1,500.00	\$ 1,500.00	8,000.00	\$ 8,000.00	3,000.00	\$ 3,000.00
5	Clearing and Grubbing	195	LFT	7.00	\$ 1,365.00	9.00	\$ 1,755.00	5.00	\$ 975.00	5.00	\$ 975.00	5.90	\$ 1,150.50	15.00	\$ 2,925.00
6	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,000.00	\$ 1,000.00	500.00	\$ 500.00	860.00	\$ 860.00	400.00	\$ 400.00
7	Curb and Gutter, Rem	75	LF	10.00	\$ 750.00	10.00	\$ 750.00	26.00	\$ 1,950.00	5.00	\$ 375.00	10.30	\$ 772.50	30.00	\$ 2,250.00
8	Sidewalk, Rem	14	SYD	8.00	\$ 112.00	9.00	\$ 126.00	18.00	\$ 252.00	9.00	\$ 126.00	14.40	\$ 201.60	40.00	\$ 560.00
9	Pathway Grading	900	LFT	4.00	\$ 3,600.00	2.80	\$ 2,520.00	2.50	\$ 2,250.00	6.00	\$ 5,400.00	11.30	\$ 10,170.00	5.00	\$ 4,500.00
10	Aggregate Base, 6 inch	495	SYD	6.00	\$ 2,970.00	2.25	\$ 1,113.75	4.50	\$ 2,227.50	6.00	\$ 2,970.00	9.00	\$ 4,455.00	16.00	\$ 7,920.00
11	4-inch Concrete Sidewalk	4000	SFT	3.00	\$ 12,000.00	2.40	\$ 9,600.00	2.60	\$ 10,400.00	2.50	\$ 10,000.00	3.60	\$ 14,400.00	4.00	\$ 16,000.00
12	ADA Compliant Sidewalk Ramp	520	SFT	4.00	\$ 2,080.00	3.00	\$ 1,560.00	2.80	\$ 1,456.00	6.25	\$ 3,250.00	7.60	\$ 3,952.00	6.00	\$ 3,120.00
13	ADA Detectable Warning Plate	100	SFT	30.00	\$ 3,000.00	20.00	\$ 2,000.00	22.00	\$ 2,200.00	25.00	\$ 2,500.00	35.00	\$ 3,500.00	30.00	\$ 3,000.00
14	ADA Detectable Warning Plate, Retrofit	40	SFT	15.00	\$ 600.00	25.00	\$ 1,000.00	22.00	\$ 880.00	50.00	\$ 2,000.00	49.00	\$ 1,960.00	30.00	\$ 1,200.00
15	Regrade Ditch	75	LFT	3.00	\$ 225.00	10.00	\$ 750.00	10.00	\$ 750.00	10.00	\$ 750.00	15.00	\$ 1,125.00	20.00	\$ 1,500.00
16	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	380.00	\$ 380.00	300.00	\$ 300.00
17	Culv, CI A, Conc, 15 inch	15	LFT	35.00	\$ 525.00	40.00	\$ 600.00	100.00	\$ 1,600.00	40.00	\$ 640.00	46.00	\$ 736.00	40.00	\$ 640.00
18	Culv, End Sect, Conc, 15 inch	2	EA	300.00	\$ 600.00	400.00	\$ 800.00	250.00	\$ 500.00	450.00	\$ 900.00	330.00	\$ 660.00	150.00	\$ 300.00
19	Wooden Pedestrian Railing	24	LFT	25.00	\$ 600.00	15.00	\$ 360.00	15.00	\$ 360.00	25.00	\$ 600.00	18.00	\$ 432.00	36.00	\$ 864.00
20	Cold Plastic Overlay, 6 inch	272	LFT	6.00	\$ 1,632.00	4.58	\$ 1,245.76	10.00	\$ 2,720.00	3.00	\$ 816.00	9.20	\$ 2,502.40	20.00	\$ 5,440.00
21	Seeding and Mulching	1380	SYD	3.00	\$ 4,140.00	2.85	\$ 3,933.00	2.00	\$ 2,760.00	3.00	\$ 4,140.00	3.40	\$ 4,692.00	10.00	\$ 13,800.00
22	TS, Pedestrian, Bracket Arm Mtd, Rem	4	EA	200.00	\$ 800.00	115.00	\$ 460.00	110.00	\$ 440.00	100.00	\$ 400.00	110.00	\$ 440.00	130.00	\$ 520.00
23	Pushbutton, Rem	2	EA	200.00	\$ 400.00	115.00	\$ 230.00	110.00	\$ 220.00	100.00	\$ 200.00	110.00	\$ 220.00	130.00	\$ 260.00
24	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1	EA	1,500.00	\$ 1,500.00	1,300.00	\$ 1,300.00	980.00	\$ 980.00	900.00	\$ 900.00	990.00	\$ 990.00	1,170.00	\$ 1,170.00
25	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	4	EA	2,000.00	\$ 8,000.00	1,500.00	\$ 6,000.00	1,700.00	\$ 6,800.00	1,500.00	\$ 6,000.00	1,650.00	\$ 6,600.00	1,950.00	\$ 7,800.00
26	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	1	EA	1,500.00	\$ 1,500.00	1,750.00	\$ 1,750.00	1,000.00	\$ 1,000.00	900.00	\$ 900.00	990.00	\$ 990.00	1,170.00	\$ 1,170.00
27	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	1	EA	2,000.00	\$ 2,000.00	2,200.00	\$ 2,200.00	1,700.00	\$ 1,700.00	1,500.00	\$ 1,500.00	1,650.00	\$ 1,650.00	1,950.00	\$ 1,950.00
28	Pushbutton, Salv	2	EA	500.00	\$ 1,000.00	1,100.00	\$ 2,200.00	220.00	\$ 440.00	200.00	\$ 400.00	220.00	\$ 440.00	260.00	\$ 520.00
29	Conduit, DB, 1, 1 1/4 inch	30	LFT	12.00	\$ 360.00	42.00	\$ 1,260.00	14.00	\$ 420.00	12.00	\$ 360.00	13.20	\$ 396.00	15.60	\$ 468.00
30	Conduit, DB, 1, 3 inch	15	LFT	15.00	\$ 225.00	64.00	\$ 960.00	17.00	\$ 255.00	15.00	\$ 225.00	16.50	\$ 247.50	19.50	\$ 292.50
31	Conduit, Directional Bore, 1, 4 inch	50	LFT	50.00	\$ 2,500.00	80.00	\$ 3,000.00	21.00	\$ 1,050.00	19.00	\$ 950.00	20.90	\$ 1,045.00	24.70	\$ 1,235.00
32	Hh, Round	2	EA	1,500.00	\$ 3,000.00	800.00	\$ 1,600.00	780.00	\$ 1,560.00	700.00	\$ 1,400.00	770.00	\$ 1,540.00	910.00	\$ 1,820.00
33	Wood Pole, Fit Up, TS Cable Pole	1	EA	1,000.00	\$ 1,000.00	420.00	\$ 420.00	450.00	\$ 450.00	400.00	\$ 400.00	440.00	\$ 440.00	520.00	\$ 520.00
34	Pushbutton Support Post	2	EA	500.00	\$ 1,000.00	385.00	\$ 770.00	340.00	\$ 680.00	300.00	\$ 600.00	330.00	\$ 660.00	390.00	\$ 780.00
35	Pedestal, Alum, RCOC	1	EA	1,000.00	\$ 1,000.00	800.00	\$ 800.00	780.00	\$ 780.00	700.00	\$ 700.00	770.00	\$ 770.00	910.00	\$ 910.00
36	Pedestal, Fdn	1	EA	500.00	\$ 500.00	710.00	\$ 710.00	780.00	\$ 780.00	700.00	\$ 700.00	770.00	\$ 770.00	910.00	\$ 910.00
37	RCOC Force Account Charges	1500	DLR	1.00	\$ 1,500.00	1.00	\$ 1,500.00	1.10	\$ 1,650.00	1.00	\$ 1,500.00	1.10	\$ 1,650.00	1.30	\$ 1,950.00

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
Total - Project 3 - Base Bid:					\$ 72,784.95		\$ 67,331.18		\$ 57,135.50		\$ 59,352.00		\$ 84,067.50		\$ 99,994.50
Alt. No. 1 - Haggerty south of Ten Mile gap															
1	Mobilization (5% Maximum)	1	LS	887.05	\$ 887.05	300.00	\$ 300.00	500.00	\$ 500.00	850.00	\$ 850.00	1,000.00	\$ 1,000.00	1,000.00	\$ 1,000.00
2	Pre-construction audio-visual	1	LS	750.00	\$ 750.00	100.00	\$ 100.00	100.00	\$ 100.00	100.00	\$ 100.00	110.00	\$ 110.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,500.00	\$ 1,500.00	400.00	\$ 400.00	500.00	\$ 500.00	600.00	\$ 600.00	400.00	\$ 400.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	800.00	\$ 800.00	700.00	\$ 700.00	1,000.00	\$ 1,000.00	1.00	\$ 1.00	600.00	\$ 600.00	3,000.00	\$ 3,000.00
5	Clearing and Grubbing	25	LFT	7.00	\$ 175.00	12.00	\$ 300.00	15.00	\$ 375.00	10.00	\$ 250.00	35.00	\$ 875.00	20.00	\$ 500.00
6	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,200.00	\$ 1,200.00	500.00	\$ 500.00	830.00	\$ 830.00	400.00	\$ 400.00
7	Pavement, Rem	30	SYD	10.00	\$ 300.00	9.00	\$ 270.00	18.00	\$ 540.00	9.00	\$ 270.00	7.80	\$ 234.00	40.00	\$ 1,200.00
8	Curb and Gutter, Rem	45	LF	10.00	\$ 450.00	10.00	\$ 450.00	28.00	\$ 1,260.00	5.00	\$ 225.00	4.10	\$ 184.50	30.00	\$ 1,350.00
9	Sidewalk, Rem	32	SYD	8.00	\$ 256.00	9.00	\$ 288.00	9.00	\$ 288.00	9.00	\$ 288.00	12.80	\$ 409.60	40.00	\$ 1,280.00
10	Pathway Grading	240	LFT	4.00	\$ 960.00	3.90	\$ 936.00	2.75	\$ 660.00	5.00	\$ 1,200.00	11.30	\$ 2,712.00	5.00	\$ 1,200.00
11	Aggregate Base, 6 inch	190	SYD	6.00	\$ 1,140.00	2.25	\$ 427.50	5.40	\$ 1,026.00	6.00	\$ 1,140.00	8.00	\$ 1,520.00	16.00	\$ 3,040.00
12	4-inch Concrete Sidewalk	1300	SFT	3.00	\$ 3,900.00	2.40	\$ 3,120.00	2.65	\$ 3,445.00	2.50	\$ 3,250.00	3.40	\$ 4,420.00	4.00	\$ 5,200.00
13	6-inch Concrete Driveway	270	SFT	4.00	\$ 1,080.00	2.60	\$ 702.00	3.10	\$ 837.00	3.00	\$ 810.00	4.00	\$ 1,080.00	6.00	\$ 1,620.00
14	ADA Compliant Sidewalk Ramp	305	SFT	4.00	\$ 1,220.00	3.00	\$ 915.00	2.85	\$ 869.25	6.25	\$ 1,906.25	7.00	\$ 2,135.00	6.00	\$ 1,830.00
15	ADA Detectable Warning Plate	40	SFT	30.00	\$ 1,200.00	20.00	\$ 800.00	22.00	\$ 880.00	25.00	\$ 1,000.00	34.00	\$ 1,360.00	40.00	\$ 1,600.00
16	Drainage Modifications	1	LS	2,500.00	\$ 2,500.00	2,800.00	\$ 2,800.00	3,400.00	\$ 3,400.00	3,500.00	\$ 3,500.00	1,270.00	\$ 1,270.00	1,500.00	\$ 1,500.00
17	Regrade Ditch	50	LFT	3.00	\$ 150.00	10.00	\$ 500.00	10.00	\$ 500.00	10.00	\$ 500.00	9.50	\$ 475.00	20.00	\$ 1,000.00
18	Seeding and Mulching	320	SYD	3.00	\$ 960.00	2.85	\$ 912.00	2.15	\$ 689.00	3.00	\$ 960.00	3.60	\$ 1,152.00	10.00	\$ 3,200.00
Total - Alt No. 1:					\$ 18,628.05		\$ 14,520.50		\$ 18,068.25		\$ 17,350.25		\$ 20,767.10		\$ 32,920.00
Alt. No. 2 - Farmington Hills Ramps at Haggerty and Ten Mile															
1	Mobilization (5% Maximum)	1	LS	323.10	\$ 323.10	100.00	\$ 100.00	500.00	\$ 500.00	350.00	\$ 350.00	330.00	\$ 330.00	800.00	\$ 800.00
2	Pre-construction audio-visual	1	LS	250.00	\$ 250.00	50.00	\$ 50.00	75.00	\$ 75.00	100.00	\$ 100.00	60.00	\$ 60.00	3,000.00	\$ 3,000.00
3	Soil Erosion and Sedimentation Control	1	LS	500.00	\$ 500.00	100.00	\$ 100.00	400.00	\$ 400.00	600.00	\$ 600.00	150.00	\$ 150.00	2,000.00	\$ 2,000.00
4	Curb and Gutter, Rem	20	LF	10.00	\$ 200.00	10.00	\$ 200.00	27.00	\$ 540.00	5.00	\$ 100.00	9.30	\$ 186.00	30.00	\$ 600.00
5	Sidewalk, Rem	50	SYD	8.00	\$ 400.00	9.00	\$ 450.00	9.00	\$ 450.00	9.00	\$ 450.00	5.50	\$ 275.00	40.00	\$ 2,000.00
6	Pathway Grading	48	LFT	4.00	\$ 192.00	8.44	\$ 405.12	2.50	\$ 120.00	10.00	\$ 480.00	13.60	\$ 652.80	15.00	\$ 720.00
7	Aggregate Base, 6 inch	90	SYD	6.00	\$ 540.00	2.25	\$ 202.50	4.50	\$ 405.00	6.00	\$ 540.00	9.00	\$ 810.00	16.00	\$ 1,440.00
8	4-inch Concrete Sidewalk	500	SFT	3.00	\$ 1,500.00	2.40	\$ 1,200.00	2.65	\$ 1,325.00	2.50	\$ 1,250.00	3.60	\$ 1,800.00	4.00	\$ 2,000.00
9	ADA Compliant Sidewalk Ramp	220	SFT	4.00	\$ 880.00	3.00	\$ 660.00	2.85	\$ 627.00	6.25	\$ 1,375.00	5.10	\$ 1,122.00	6.00	\$ 1,320.00
10	ADA Detectable Warning Plate	40	SFT	25.00	\$ 1,000.00	20.00	\$ 800.00	22.00	\$ 880.00	25.00	\$ 1,000.00	35.00	\$ 1,400.00	40.00	\$ 1,600.00
11	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
12	Seeding and Mulching	200	SYD	3.00	\$ 600.00	2.85	\$ 570.00	2.00	\$ 400.00	3.00	\$ 600.00	5.40	\$ 1,080.00	10.00	\$ 2,000.00
Total - Alt No. 2 - Farmington Hills portion:					\$ 6,785.10		\$ 5,137.82		\$ 6,122.00		\$ 7,095.00		\$ 8,205.80		\$ 17,780.00
Project 4 - Eleven Mile Gap to Clark; Clark Gap from Eleven Mile north (~600 LFT)															
1	Mobilization (5% Maximum)	1	LS	1,558.00	\$ 1,558.00	300.00	\$ 300.00	400.00	\$ 400.00	1,500.00	\$ 1,500.00	2,000.00	\$ 2,000.00	2,600.00	\$ 2,600.00
2	Pre-construction audio-visual	1	LS	800.00	\$ 800.00	725.00	\$ 725.00	200.00	\$ 200.00	725.00	\$ 725.00	830.00	\$ 830.00	1,000.00	\$ 1,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,000.00	\$ 1,000.00	700.00	\$ 700.00	500.00	\$ 500.00	100.00	\$ 100.00	800.00	\$ 800.00	1,000.00	\$ 1,000.00
4	Maintaining Traffic	1	LS	2,000.00	\$ 2,000.00	700.00	\$ 700.00	1,500.00	\$ 1,500.00	750.00	\$ 750.00	3,000.00	\$ 3,000.00	6,000.00	\$ 6,000.00

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
5	Tree Protection	2	EA	250.00	\$ 500.00	100.00	\$ 200.00	100.00	\$ 200.00	100.00	\$ 200.00	180.00	\$ 360.00	200.00	\$ 400.00
6	Cleaning and Grubbing	225	LFT	7.00	\$ 1,575.00	9.00	\$ 2,025.00	15.00	\$ 3,375.00	5.00	\$ 1,125.00	9.00	\$ 2,025.00	16.00	\$ 3,600.00
7	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,200.00	\$ 1,200.00	500.00	\$ 500.00	862.00	\$ 862.00	400.00	\$ 400.00
8	Pavement, Rem	25	SYD	10.00	\$ 250.00	9.00	\$ 225.00	18.00	\$ 450.00	9.00	\$ 225.00	6.80	\$ 170.00	40.00	\$ 1,000.00
9	Curb and Gutter, Rem	75	LF	10.00	\$ 750.00	10.00	\$ 750.00	26.00	\$ 1,950.00	5.00	\$ 375.00	37.00	\$ 2,775.00	30.00	\$ 2,250.00
10	Sidewalk, Rem	5	SYD	8.00	\$ 40.00	9.00	\$ 45.00	18.00	\$ 90.00	9.00	\$ 45.00	35.00	\$ 175.00	40.00	\$ 200.00
11	Pathway Grading	455	LFT	4.00	\$ 1,820.00	4.50	\$ 2,047.50	2.50	\$ 1,137.50	6.50	\$ 2,957.50	9.80	\$ 4,459.00	5.00	\$ 2,275.00
12	Aggregate Base, 6 inch	400	SYD	6.00	\$ 2,400.00	2.25	\$ 900.00	4.50	\$ 1,800.00	6.00	\$ 2,400.00	7.80	\$ 3,120.00	16.00	\$ 6,400.00
13	Curb and Gutter, Conc, Det C4	245	LFT	15.00	\$ 3,675.00	18.00	\$ 4,410.00	20.00	\$ 4,900.00	18.50	\$ 4,532.50	23.00	\$ 5,635.00	32.00	\$ 7,840.00
14	Curb, Conc, Det E2	25	LFT	15.00	\$ 375.00	20.00	\$ 500.00	20.00	\$ 500.00	25.00	\$ 625.00	29.00	\$ 725.00	32.00	\$ 800.00
15	Spillway, Conc	6	LFT	60.00	\$ 360.00	50.00	\$ 300.00	15.00	\$ 90.00	25.00	\$ 150.00	58.00	\$ 348.00	40.00	\$ 240.00
16	Riprap, Plain	9	SYD	15.00	\$ 135.00	30.00	\$ 270.00	25.00	\$ 225.00	60.00	\$ 540.00	99.00	\$ 891.00	50.00	\$ 450.00
17	4-inch Concrete Sidewalk	3000	SFT	3.00	\$ 9,000.00	2.40	\$ 7,200.00	2.65	\$ 7,950.00	2.50	\$ 7,500.00	3.60	\$ 10,800.00	4.00	\$ 12,000.00
18	ADA Compliant Sidewalk Ramp	275	SFT	4.00	\$ 1,100.00	3.00	\$ 825.00	2.85	\$ 783.75	6.25	\$ 1,718.75	6.50	\$ 1,787.50	6.00	\$ 1,650.00
19	ADA Detectable Warning Plate	36	SFT	30.00	\$ 1,080.00	20.00	\$ 720.00	22.00	\$ 792.00	25.00	\$ 900.00	35.00	\$ 1,260.00	30.00	\$ 1,080.00
20	Regrade Ditch	200	LFT	3.00	\$ 600.00	10.00	\$ 2,000.00	10.00	\$ 2,000.00	10.00	\$ 2,000.00	14.00	\$ 2,800.00	20.00	\$ 4,000.00
21	Dr Structure Cover, Adj, Case 2	1	EA	300.00	\$ 300.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
22	Wooden Pedestrian Railing	60	LFT	25.00	\$ 1,500.00	15.00	\$ 900.00	15.00	\$ 900.00	25.00	\$ 1,500.00	17.30	\$ 1,038.00	36.00	\$ 2,160.00
23	Seeding and Mulching	500	SYD	3.00	\$ 1,500.00	2.85	\$ 1,425.00	2.00	\$ 1,000.00	3.00	\$ 1,500.00	4.50	\$ 2,250.00	10.00	\$ 5,000.00
Total - Project 4 - Clark Road:					\$ 32,718.00		\$ 28,167.50		\$ 32,343.25		\$ 32,118.75		\$ 48,450.50		\$ 62,645.00
TOTAL - BASE BID (1-4, NO ALTERNATES):					185,809.05		144,485.68		152,135.00		159,295.50		230,221.78		303,899.50
TOTAL - ALL PROJECTS AND ALTS:					\$ 211,222.20		\$ 164,143.80		\$ 176,325.25		\$ 183,740.75		\$ 259,194.68		\$ 354,599.50

As-Read:

\$ 164,146.52

\$ 180,059.85

\$ 183,740.75

\$ 257,604.70

\$ 357,599.50

Items requiring correction shown highlighted:

Corrections summary

Audia	Project 2, item 20 - incorrect total price (-2.72 for item) Project 2 total: -2.72 from as-read
Koala-T	Project 1, item 16 - incorrect total price (+450.00 for item) Project 1 total: +450.00 from as-read Project 3, item 14 - incorrect total price (-7,920.00 for item) Project 3, item 21 - incorrect total price (+1,000.00 for item) Project 3 total: -6,920.00 from as-read
Goretski	none
Action	Project 1, item 5 - incorrect total price (-0.02 for item) Project 1 total: -0.02 from as-read Project 4, item 9 - incorrect total price (+2,580.00 for item) Project 4 total: +2,580.00 from as-read
Italia	Project 1 total: incorrect summary (-3,000.00 from as-read)