



CITY of NOVI CITY COUNCIL

**Agenda Item C
November 24, 2008**

SUBJECT: Approval of an engineering contract amendment to Spalding DeDecker Associates, Inc. for additional engineering services associated with the design phase of the 2009 Pathway Construction Project in the amount of \$11,700.

SUBMITTING DEPARTMENT: Engineering

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$4,500 (Eleven Mile/Clark Street-Short Segment) <u>\$7,200</u> (Haggerty—2009 Pathway Engineering) \$11,700 (Total increase to contract)
AMOUNT BUDGETED	\$25,000 (Short Segments) \$272,600 (2009 Pathways)
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	204-204.00-974.409 (Eleven Mile/Clark Street) 204-204.00-974.805 (2009 Pathway Program)

BACKGROUND INFORMATION:

Design engineering for the 2009 Pathway Project was awarded to Spalding DeDecker for a fee of \$22,000 in September 2008. Preliminary design of the project is nearing 30% completion. RCOC has provided a preliminary review of the project plans and is requiring some additional work relating to pedestrian ramps and pedestrian signals at two intersections: Haggerty Road at Ten Mile Road and Haggerty Road at Village Wood Road (see Spalding DeDecker's October 20, 2008 memorandum, attached). RCOC requires that any time work is performed near an existing pedestrian crossing it must be improved to meet the current requirements of the Americans with Disabilities Act (ADA). Additionally, RCOC requires that all pedestrian crossings have a receiving ramp and landing area on the opposite side of the road to meet the requirements of the ADA. Therefore, without the construction of the ramp on the Farmington Hills side of Haggerty, Novi would not be permitted to construct a ramp on the Novi side. Staff has contacted engineering staff at the City of Farmington Hills and has received a verbal agreement to participate in the sidewalk construction on the Farmington Hills side of the intersection (see letter to Farmington Hills dated November 17, 2008, attached, indicating out request to receive a written commitment). The pedestrian signal upgrades are also needed to meet the ADA requirements for the location of the pedestrian push-buttons and signals relative to the pathway.

Part of the scope for the 2009 Pathway Construction project includes an 8-foot wide bike path on Eleven Mile Road just east of Taft (see attached figure). After the kick-off meeting for this project, a Walkable Novi Committee member noted that two relatively short segments could be added to the project scope that would provide an uninterrupted pathway connection from Grand River Avenue, south along Clark Street, and west along Eleven Mile Road to Wixom Road. Adding two 300-foot sidewalks to Clark and Eleven Mile (shown as "Segment 4" on the attached figure) would also provide pedestrian access to Parkview, Novi Woods, Novi Meadows, and Deerfield Elementary schools; as well as to Novi Middle School. We are recommending that the design work be completed now to allow the connection to be completed at some point soon. The additional

sidewalk could then be bid as an alternate and awarded either in 2008-09 if within the budget or be ready as a priority for completion during fiscal year 2009-10 budget.

Spalding DeDecker has provided a scope of work and fee proposal for the additional design effort (Dave Eno's November 17, 2008 letter, attached). Engineering staff have reviewed the fee and find that it is appropriate given the additional scope required. Therefore, the engineering contract with SDA would be amended by the \$11,700 fee amount proposed for a revised total engineering fee of \$33,700. The work in Farmington Hills would not be completed, nor would the Novi portion of the crossing be designed or constructed until a financial commitment from Farmington Hills has been received.

The revised construction cost estimate with the additional ADA improvements at the signalized intersections and with the short segment addition along Clark Street and Eleven Mile Road is approximately \$276,000, which is \$37,000 over the construction budget. The cost estimates are very preliminary at this point in the design and will be refined as the project nears construction. As mentioned, the additional Clark and Eleven Mile segment would be bid for construction as a bid alternate.

The project is on schedule with design engineering for this project to be completed this winter, bids solicited in early spring 2009, and construction completed in summer 2009.

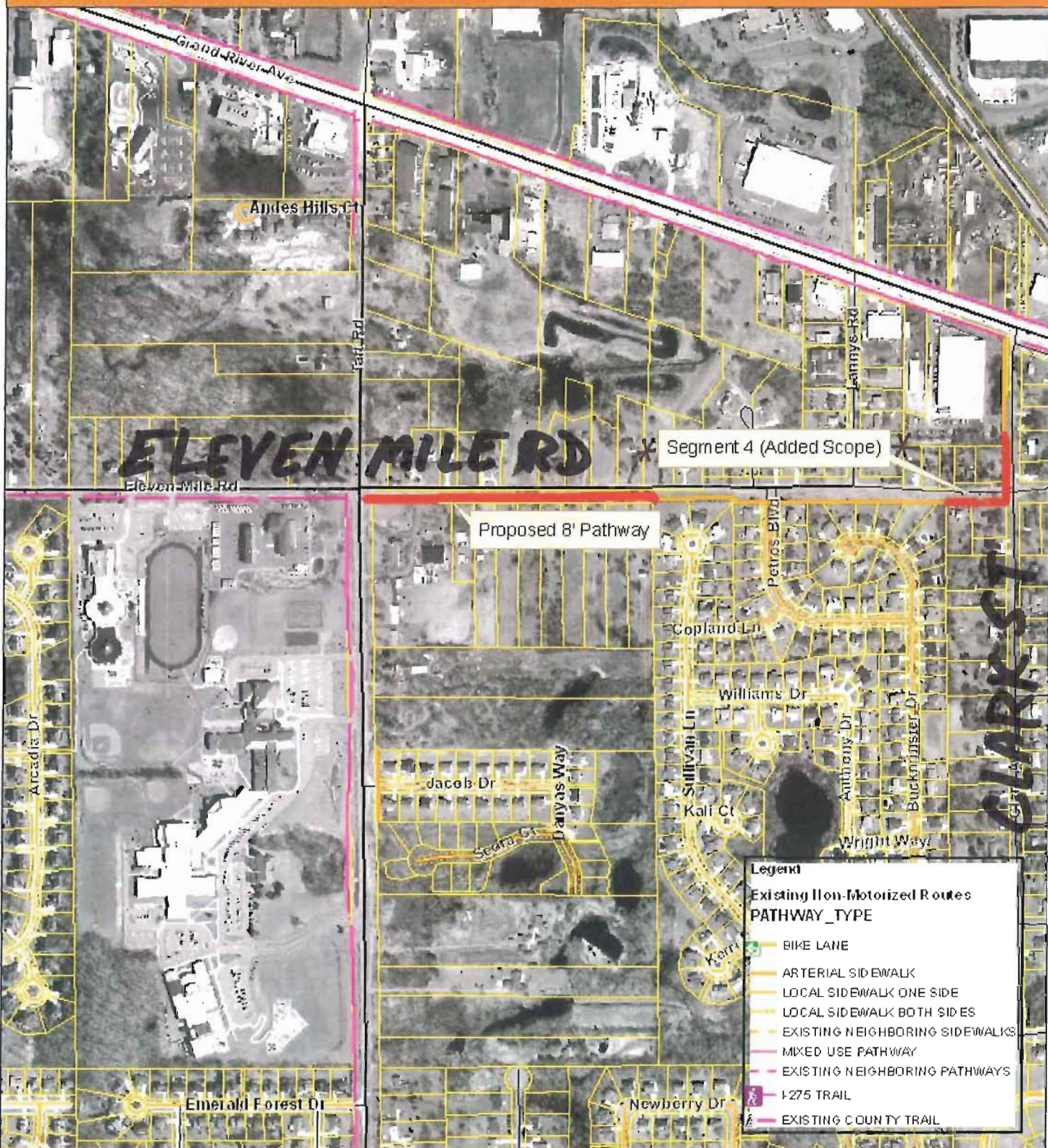
RECOMMENDED ACTION: Approval of an engineering contract amendment to Spalding DeDecker Associates, Inc. for additional engineering services associated with the design phase of the 2009 Pathway Construction Project in the amount of \$11,700.

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

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

2009 Pathway Program

Project 1 Location Map



CITY OF NOVI

ENGINEERING DIVISION

15115 W. TEN MILE ROAD

NOVI, MI 48240-3024

248 347-6101

MAY AUTHORITY: STATE CONSTITUTION, P. 2.



1 INCH = 600 FEET

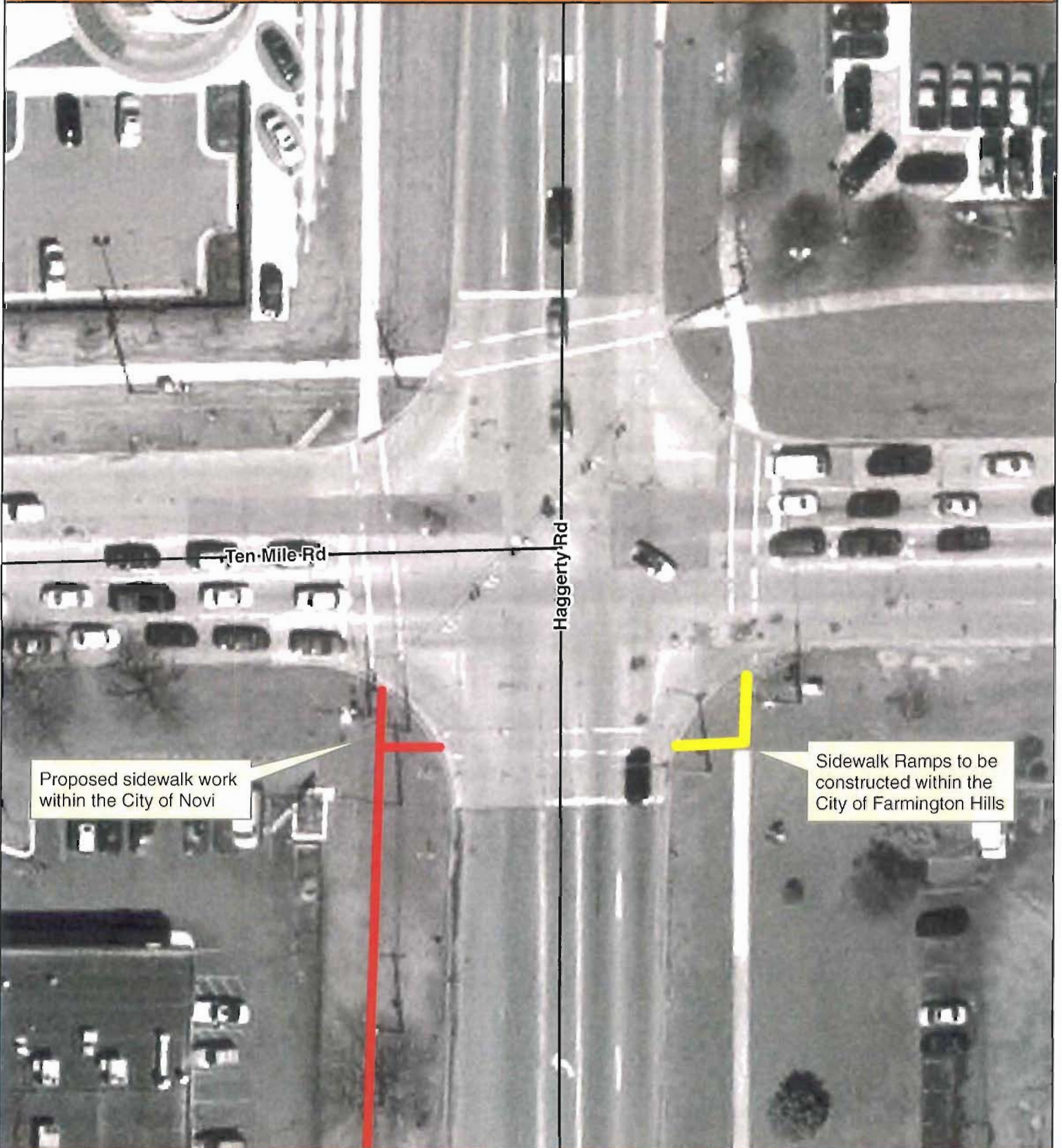
MAP PRINT DATE: 06/08

MAP IMPROVEMENT NOTICE

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LOCATION MAP

Sidewalk Construction at Haggerty and Ten Mile



Proposed sidewalk work within the City of Novi

Sidewalk Ramps to be constructed within the City of Farmington Hills

CITY OF NOVI

ENGINEERING DEPARTMENT
45175 W Ten Mile Rd
Novi, MI 48375
(248) 347-0454

MAP AUTHOR: Brian Coburn, PE



1 INCH = 40 FEET

MAP PRINT DATE: 11/17/09

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 people 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.



November 17, 2008

Mr. Brian Coburn, P.E.
Civil Engineer
City of Novi
45175 W. Ten Mile Road
Novi, MI 48375

Re: 2009 Pathway Construction
Additional Services Request No. 1
Job No.: RB08-014

Dear Mr. Coburn:

As indicated in phone and e-mail correspondence, the City of Novi (City) is requesting additional design services for the above referenced project to construct additional pathway and/or to comply with requirements of the Road Commission for Oakland County (RCOC). We are pleased to add to the proposed services and further enhance the pathway network in the City. This letter includes our understanding of the proposed work and requested extra design services for your review and approval.

The current scope of the project includes survey and design services for:

- Pathway along Eleven Mile from Taft to Cedar Springs subdivision.
- Pathway along the north side of Ten Mile west of Haggerty.
- Upgraded sidewalk ramps and related signal work on the west side of Haggerty at Ten Mile.
- Three pathway segments on the west side of Haggerty from Ten Mile to Village Woods.

Original Scope Budget

Design surveys	\$ 3,500.00
Engineering / Plan Preparation	\$ 14,650.00
Mansell (subconsultant)	\$ 3,850.00
	<hr/>
	\$ 22,000.00

The requested additional survey and design services include:

- 1) Pathway segments in gaps in the existing five-foot wide concrete sidewalk along the south side of Eleven Mile and in the southwest and northwest quadrants of Clark Road at Eleven Mile Road.
- 2) Upgrading the sidewalk ramps and related signal work on the east side of Haggerty at Ten Mile (which is within the City of Farmington Hills) at the request of and to the standards of the RCOC.
- 3) Pedestrian signal upgrades at the Village Woods subdivision entrance as required by the RCOC.

Eleven Mile at Clark Segments - This segment is new to the project, it was not in the original proposal. The proposed sidewalk will be five-foot wide concrete. On the south side of Eleven Mile



Road, it will extend from the eastern terminus of the existing walk to Clark Street, with stubs / ramps to the north and east. The segment along Clark Street will extend from a new ramp at Eleven Mile Road northerly and tie into the existing sidewalk north of the drainage ditch and culvert.

The intent based on our discussions is to route the sidewalk between the roadway and culvert end as opposed to directly across the ditch using a boardwalk or bridge, or extending the culvert and placing the walk on fill. The sidewalk will be located approximately three feet from the edge of the roadway, and curb and gutter will be placed along the roadway in the vicinity where the walk is closer than five feet to the road. A split rail fence will be proposed between the sidewalk and culvert end to prevent pedestrians or bikes from heading into the ditch. The total length of the additional pathway is approximately 600 feet.

Eleven Mile and Clark additional segments

Design surveys	\$ 1,500.00
Engineering / Plan Preparation	\$ 3,000.00
Proposed design services:	\$ 4,500.00

Ten at Haggerty Intersection - During very early discussions with the RCOC for the signal work required at Ten and Haggerty, they requested that an effort be made to upgrade all quadrants of the intersection with ramps meeting current American with Disabilities Act (ADA) standards. Since the east side of Haggerty is within the City of Farmington Hills, coordination with them was required. We understand that the City of Novi has a tentative cost sharing agreement with Farmington Hills to recover the additional design service (and eventually construction) costs required to upgrade their ramps.

Add ramp to SE quadrant Haggerty @ Ten Mile (F. Hills portion)

Design surveys	\$ 600.00
Engineering / Plan Preparation	\$ 1,200.00
MDOT ROW use permit application (SDA)	\$ 250.00
Proposed design services:	\$ 2,050.00

In addition to the Farmington Hills portion, based on requirements of the RCOC our subconsultant, Mansell Associates, will be required to perform additional design services to meet their current standards. This would be required whether or not the Farmington Hills portion is included. Their additional fee to complete the design is \$350.00.

Village Woods Signal Design – The pathway crossing at Village Woods subdivision entrance was in the original scope of the project, but modifications to the signal at that intersection were not. Based on the requirements of the RCOC, pedestrian signals will be required for the proposed north-south crossing on the west side of Haggerty. These services will be performed by our subconsultant, Mansell Associates.

Add N-S pedestrian signals at Village Woods

Mansell (subconsultant)	\$ 4,800.00
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SPALDING DEDECKER ASSOCIATES, INC.

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

SDA and our subconsultant will perform survey and design services for the additional segments and work items in accordance with our proposal dated September 3, 2008, for the proposed amount of \$11,700. Construction phase services will be awarded after bid opening based on a percentage of construction as stated in our proposal.

A budget summary including the proposed changes is as follows:

BUDGET SUMMARY

Original Contract (P.O. 91188):	\$22,000
Requested Additional Services:	<u>11,700</u>
 Total Amended Budget:	 \$33,700

SDA will provide these additional services in accordance with the current contract, authorized by City of Novi Purchase Order No. 91188, dated September 22, 2008. If you concur with our scope of services, please sign the bottom of this letter, retain a copy for your files, and return the original to SDA to the attention of Mr. David Eno. This proposal is made subject to the contract between the City of Novi and SDA. Invoices will be submitted every four weeks and payment is due upon receipt.

SDA will proceed immediately with survey and design services for the additional segments upon authorization. If you have any questions or require additional information, please contact me at 248-844-5400 or deno@sda-eng.com.

Sincerely,

SPALDING DEDECKER ASSOCIATES, INC.

David P. Eno, P.E.
Project Manager

Approved for:

City of Novi

By: _____

Title: _____

Authorization Date: _____

By e-mail

Cc: SDA Job File, SDA Chrono



MEMORANDUM

DATE: October 20, 2008
TO: Brian Coburn
ORGANIZATION: City of Novi
FROM: David Eno
RE: 2009 Pathways - Signal Information
JOB NO.: RB08-014

Brian,

I spoke with Danielle Deneau of the RCOC on Friday, October 17, regarding what will be required for signal work in conjunction with the proposed pathway project. The following is a summary of the *questions asked* (via e-mail) and the response:

Ten at Haggerty

- The City intends to continue the north-south pathway, with an ADA compliant ramp in the SW quad, and adjustments to the pedestrian heads and push buttons as needed to accommodate that. The intent is not to place a stub and ramp towards the east (across Haggerty) since there is no receiving ramp on the other side of the street, and that is Farmington Hills. Will the City be required (or recommended) to place a ramp towards the east? If so, will the expectation be that the east side is improved as well (in Farmington Hills)?

The RCOC would like to have ramps placed in both the SW and SE quads running across Haggerty. Danielle has contacted Kevin McCarthy of Farmington Hills and they have expressed an interest in participating in the project as needed to have a ramp and up to standard pedestrian push button installed for the E-W crossing. SDA could provide this service to Farmington Hills with the approval of Novi, or Farmington Hills could hire the design services separately. Coordinating the design and construction would require an understanding between all parties.

Lacking having a ramp placed on the Farmington Hills SE quad, the RCOC would prefer that the cross walk striping be removed. In any case, the pedestrian push buttons in whichever quadrants are being worked on will need to be brought up to current guidelines. The entire signal does not require upgrading to a box span.

Haggerty at Village Wood Drive

In our discussion you mentioned that based on the nature of this crossing, pedestrian push buttons would not be required, but I don't recall if we discussed if walk/don't walk pedestrian signals would be needed. Please let me know as well as any other concerns or requirements at this intersection.

Engineering Consultants

Infrastructure • Land Development • Surveying



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Pedestrian push buttons will not be required but pedestrian signals are and should be installed. Cross walk striping should be placed as well as a stop bar for EB Village Wood traffic. If the SCATS camera monitoring EB Village Wood (in the median) requires relocation due to the pathway construction, it could potentially go on the new pedestrian signal pole.

For all signal work, a field meeting with Dan Nall of the RCOC will be held to discuss the project and preferred location for the various items.

cc: SDA Job File
SDA Chronological File

Engineering Consultants

Infrastructure • Land Development • Surveying



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Project: <u>Novi 2009 Pathways Construction</u>	Date: <u>11/7/2008</u>
Location: <u>City of Novi; Various sites</u>	Project No.: <u>RB08-014</u>
Work: <u>Construct 5' concrete or 8' HMA pathway in gaps within network; add or improve ramps at intersections</u>	By: <u>DPE</u>
	Reviewed: _____

DESIGN BUDGET

Original Scope Budget

Design surveys	\$ 3,500.00
Engineering / Plan Preparation	\$ 14,650.00
Mansell (subconsultant)	\$ 3,850.00
	<u>\$ 22,000.00</u>

Additional Services Budgets

Full pedestrian signal replacement at Ten Mile
Mansell (subconsultant) \$ 350.00

Add N-S pedestrian signals at Village Woods
Mansell (subconsultant) \$ 4,800.00

Add ramp to SE quadrant Haggerty @ Ten Mile (F. Hills portion)
Design surveys \$ 600.00
Engineering / Plan Preparation \$ 1,200.00
MDOT ROW use permit application (SDA) \$ 250.00
\$ 2,050.00

Farmington
Hills
portion

Eleven Mile and Clark additional segments
Design surveys \$ 1,500.00
Engineering / Plan Preparation \$ 3,000.00
\$ 4,500.00

Revised Scope Budget Summary (all options)

Design surveys	\$ 5,600.00
Engineering / Plan Preparation	\$ 18,850.00
Mansell (subconsultant)	\$ 9,000.00
	<u>\$ 33,450.00</u>



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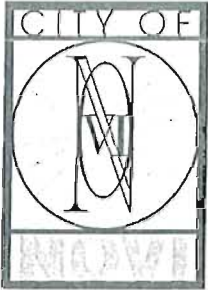
Project: Novi 2009 Pathways Construction Date: 11/7/2008
 Location: City of Novi; Various sites Project No. RB08-014
 Work: Construct 5' concrete or 8' HMA pathway in gaps By: DPE
within network; add or improve ramps at intersections Reviewed: _____

ENGINEER'S ESTIMATE - 30% PLAN COMPLETION

Item No.	Item Description	Est. Quantity	Unit	Unit Price (\$)	Total Cost
Project 1 - South side of Eleven Mile Road - Taft to Cedar Springs (~1,330 LFT)					
1	Mobilization (5%)	1	LS	2,115.00	\$ 2,115.00
	Pre-construction audio-visual review	1	LS	1,300.00	\$ 1,300.00
	SESC & Tree Protection Measures	1	LS	2,500.00	\$ 2,500.00
	HMA Pathway (grading, agg base, HMA)	1200	SYD	25.00	\$ 30,000.00
	Drainage Items (culverts, end sections)	1	LS	2,000.00	\$ 2,000.00
	Maintaining Traffic	1	LS	1,500.00	\$ 1,500.00
	Restoration	1	LS	5,000.00	\$ 5,000.00
	Misc / Contingency (15%)	1	LS	6,345.00	\$ 6,345.00
		Total Estimate - Project 1:			\$ 50,760.00
Project 2 - North side of Ten Mile Road, west of Haggerty (~300 LFT)					
	Mobilization (5%)	1	LS	590.00	\$ 590.00
	Pre-construction audio-visual review	1	LS	300.00	\$ 300.00
	SESC & Tree Protection Measures	1	LS	500.00	\$ 500.00
	Concrete Pathway (grading, concrete)	1500	SFT	4.00	\$ 6,000.00
	Drainage Items (culverts, end sections)	1	LS	2,000.00	\$ 2,000.00
	Maintaining Traffic	1	LS	1,500.00	\$ 1,500.00
	Restoration	1	LS	1,500.00	\$ 1,500.00
	Misc / Contingency (15%)	1	LS	1,770.00	\$ 1,770.00
		Total Estimate - Project 2:			\$ 14,160.00
Project 3 - West side of Haggerty, segments from Ten Mile to Village Woods (~1,160 LFT)					
	Mobilization (5%)	1	LS	5,321.00	\$ 5,321.00
	Pre-construction audio-visual review	1	LS	2,000.00	\$ 2,000.00
	SESC & Tree Protection Measures	1	LS	3,000.00	\$ 3,000.00
	Concrete Pathway (grading, concrete)	1500	SFT	5.00	\$ 7,500.00
	ADA Compliant concrete ramp	300	SFT	6.00	\$ 1,800.00
	ADA Truncated Dome Plates	48	SFT	40.00	\$ 1,920.00

Item No.	Item Description	Est. Quantity	Unit	Unit Price (\$)	Total Cost
	Drainage Items (culverts, end sections)	1	LS	2,500.00	\$ 2,500.00
	Rem & Replace Concrete Curb / Curb & Gutter	60	LFT	20.00	\$ 1,200.00
	Haggerty / 10 Mile Signal Upgrades	1	LS	35,000.00	\$ 35,000.00
	Haggerty / Village Woods Signal Upgrades	1	LS	45,000.00	\$ 45,000.00
	Maintaining Traffic	1	LS	1,500.00	\$ 1,500.00
	Restoration	1	LS	5,000.00	\$ 5,000.00
	Misc / Contingency (15%)	1	LS	15,963.00	\$ 15,963.00
Total Estimate - Project 3:					\$ 127,704.00
Preliminary Original Scope Estimate:					\$ 192,624.00
Alt 1 - Upgrade ADA Ramps and Ped Signal Crossing - Haggerty @ Ten Mile - F. Hills Portion					
	Concrete Pathway (grading, concrete)	300	SFT	5.00	\$ 1,500.00
	ADA Compliant concrete ramp	200	SFT	6.00	\$ 1,200.00
	ADA Truncated Dome Plates	24	SFT	40.00	\$ 960.00
	Rem & Replace Concrete Curb / Curb & Gutter	30	LFT	20.00	\$ 600.00
	Restoration	1	LS	1,000.00	\$ 1,000.00
	Misc / Contingency (15%)	1	LS	789.00	\$ 789.00
Total Estimate - F. Hills portion:					\$ 6,049.00
Alt 2 - Eleven Mile Gap to Clark; Clark Gap from Eleven Mile north (~600 LFT)					
	Mobilization (5%)	1	LS	1,115.00	\$ 1,115.00
	Pre-construction audio-visual review	1	LS	800.00	\$ 800.00
	SESC & Tree Protection Measures	1	LS	1,500.00	\$ 1,500.00
	Concrete Pathway (grading, concrete)	3000	SFT	5.00	\$ 15,000.00
	Drainage Items (culverts, end sections)	1	LS	1,000.00	\$ 1,000.00
	Split-Rail Fencing	50	LFT	20.00	\$ 1,000.00
	Maintaining Traffic	1	LS	1,500.00	\$ 1,500.00
	Restoration	1	LS	1,500.00	\$ 1,500.00
	Misc / Contingency (15%)	1	LS	3,345.00	\$ 3,345.00
Total Estimate - Alt 2 Clark Road:					\$ 26,760.00
Preliminary Alternate Scope Items Estimate:					\$ 32,809.00
30% Summary Estimate: Base + Alternate Scope Items:					\$ 225,433.00

FH portion



November 17, 2008

CITY COUNCIL

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Mayor Pro Tem
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Bob Gatt

Terry K. Margolis

Andrew Mutch

Kathy Crawford

Dave Staudt

City Manager
Clay J. Pearson

City Clerk
Maryanne Cornelius

Kevin McCarthy
City of Farmington Hills Engineering Division
31555 W. Eleven Mile Road
Farmington Hills, MI 48336

Re: Proposed Pedestrian Upgrades at Haggerty and Ten Mile Road
City of Novi—2009 Pathway Project

Dear Mr. McCarthy:

Per our telephone conversation, I have enclosed a copy of the cost estimates associated with the design and construction of pedestrian ramps and pedestrian signal upgrades at the southeast corner of Haggerty Road and Ten Mile Road. As we discussed, the City of Novi is currently in the design phase of a project that will construct a sidewalk along the west side of Haggerty Road. We appreciate your willingness to participate financially in this project so we can include the east-west crossing of Haggerty on the south side of Ten Mile Road as part of the project.

We estimate the costs associated with the sidewalk ramps and pedestrian signal upgrades on the Farmington Hills side of the intersection to be approximately \$2,050 for engineering and \$6,049 for construction for a total estimated contribution of \$8,099 to the project. We will track actual costs as separate items to provide actual costs to you as the project proceeds.

We would appreciate a letter from you that states your support for the project and commits your financial participation. Please contact our office at 248-347-0454 with any questions.

Sincerely,

ENGINEERING DEPARTMENT

Brian T. Coburn, P.E.
Civil Engineer

City of Novi
45175 W. Ten Mile Road
Novi, Michigan 48375
248.347.0460
248.347.0577 fax

cc: Clay Pearson, City Manager
Rob Hayes, P.E.; City Engineer
Dave Eno, P.E.; Spalding DeDecker & Associates