



cityofnovi.org

# CITY of NOVI CITY COUNCIL

**Agenda Item 9**  
**July 28, 2008**

**SUBJECT:** Approval to award a construction contract for the Eleven Mile Road/Meadowbrook Road Intersection Improvement project to Anglin Civil Constructors, Inc., the lowest qualified bidder, in the amount of \$290,243.65

**SUBMITTING DEPARTMENT:** Engineering *RA*

**CITY MANAGER APPROVAL:** *[Signature]*

<b>EXPENDITURE REQUIRED</b>	<b>\$290,243.65</b>
<b>AMOUNT BUDGETED</b>	<b>\$347,000</b>
<b>APPROPRIATION REQUIRED</b>	<b>N/A</b>
<b>LINE ITEM NUMBER</b>	<b>204-204.00-863.015 (Municipal Street Fund)</b>

## BACKGROUND INFORMATION:

This project includes the widening of the eastern leg of the intersection to add a dedicated left turn lane and the installation of a new traffic signal. The design of the new traffic signal will include autoscope cameras to incorporate the signal into the FAST-TRAC system. Only the design of the project was funded for fiscal year 2007-08, with the four businesses contributing \$20,000 toward the design fee. City Council appropriated \$5,000 toward the design fee.

The construction plans include a box span configuration for the new traffic signal (see enclosed photo). The costs associated with constructing the traffic signal using decorative mast arms, similar to those installed along the Grand River Avenue, Novi Road and Twelve Mile Road corridors, was investigated and it was determined to cost an additional \$92,000. The original budget was generated based on the box span configuration and the as-bid construction cost has met the budgeted amount; therefore, the addition of decorative mast arms to this intersection is not feasible. (See attached e-mail from Brian Coburn for cost summary).

Three bids were received and opened on July 17, 2008 following a public bid solicitation period. The low bidder is Anglin Civil Constructors, Inc. Anglin's bid is recommended as being in the best interest of the City as it is responsive (i.e., Anglin has complied with all requirements of the bidding instructions) and it is the lowest price. (Stantec's award recommendation letter dated July 21, 2008 is attached). A summary of the three bids is as follows:

<i>Company</i>	<i>Bid Amount</i>
<b>Anglin Civil Constructors</b>	<b>\$290,243.65</b>
Lacaria Concrete	\$303,756.75
ABC Paving	\$348,421.50

Anglin has satisfactorily completed several city projects in the past, including such recent project as the Walled Lake Diversion Sewer and Haggerty Detention Basin. Construction is scheduled to begin in August 2008 and will be completed in October 2008.

**RECOMMENDED ACTION:** Approval to award a construction contract for the Eleven Mile Road/Meadowbrook Road Intersection Improvement project to Anglin Civil Constructors, Inc., the lowest qualified bidder, in the amount of \$290,243.65

	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				



Stantec Consulting Michigan Inc.  
3959 Research Park Drive  
Ann Arbor MI 48108-2216  
Tel: (734) 761-1010  
Fax: (734) 761-1200

---

**Stantec**

July 21, 2008  
File: 2075108700

City of Novi  
Engineering Department  
45175 West Ten Mile Road  
Novi, Michigan 48375-5683

**Attention: Mr. Brian Coburn, PE**

Dear Mr. Coburn:

**Reference: Recommendation of Award  
11 Mile Road and Meadowbrook Road Intersection Improvements**

Pursuant to your direction, bids for the above-referenced project were received at the City of Novi on Thursday, July 17, 2008, where they were opened and read aloud at 2:00PM. A total of three (3) bids were received, ranging from a low in the amount of \$290,243.65 for the base bid, submitted by Anglin Civil Constructors of Novi, Michigan, to a high in the amount of \$348,421.50 for the base bid submitted by ABC Paving of Trenton, Michigan. Our engineer's estimate for this project was in the amount of \$316,195.00. A bid tab has been enclosed summarizing all of the bids that were received for the project.

We have contacted the references provided by Anglin Civil Constructors and verified their experience with other engineers for whom they have worked with on similar projects. We received favorable recommendations regarding their experience, timeliness, and ability to perform the required work from these references. Based on these references and the bids received, we recommend awarding this contract to Anglin Civil Constructors in the estimated amount of \$290,243.65.

If you concur with our recommendation and the City of Novi awards a contract to Anglin Civil Constructors, we would be pleased to prepare the contracts, obtain the required bonds and insurance coverages and schedule a preconstruction meeting to initiate this project.

We would like to thank you for this opportunity to provide services for the City of Novi and we look forward to continuing this relationship in the future.

Sincerely,

**STANTEC CONSULTING MICHIGAN INC.**

A handwritten signature in black ink that reads "Larry J. McCarthy". The signature is written in a cursive, flowing style.

Larry McCarthy, PE  
Senior Project Manager  
Tel: (734) 214-2506  
Fax: (734) 761-1200  
larry.mccarthy@stantec.com

Attachment: Bid Tab

c. George Tsakoff, Stantec

Bid Tabulation  
for the  
11 Mile Road and Meadowbrook Road Intersection Improvements  
for the  
City of Novi, Michigan

Bid Date: Thursday, July 17, 2008  
2:00 P.M., Local Time

Stantec Project No.: 2075108700

Contractor				Anglin Civil Constructors 42750 Grand River Ave. Novi, MI 48375 248-380-7860		Lacaria Concrete Construction 3720 Central Avenue Detroit, MI 48710 313-843-3865		ABC Paving 2650 Van Horn Road Trenton, MI 48183 734-676-2020	
Item No.	Item	Qty.	Units	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<b>BASE PRICE</b>									
1	Mobilization (5% Max.)	1	LS	\$ 14,056.00	\$ 14,056.00	\$ 10,000.00	\$ 10,000.00	\$ 17,000.00	\$ 17,000.00
2	Utility Coordination and Exploration	1	LS	\$ 2,800.00	\$ 2,800.00	\$ 1,000.00	\$ 1,000.00	\$ 2,900.00	\$ 2,900.00
3	Silt Fence	500	LFT	\$ 3.36	\$ 1,680.00	\$ 4.00	\$ 2,000.00	\$ 1.20	\$ 600.00
4	Tree Protection Fence	200	LFT	\$ 4.48	\$ 896.00	\$ 2.00	\$ 400.00	\$ 3.00	\$ 600.00
5	Erosion Control Inlet Filter	2	EA	\$ 168.00	\$ 336.00	\$ 120.00	\$ 240.00	\$ 300.00	\$ 600.00
6	Remove Concrete Sidewalk	170	SYD	\$ 13.44	\$ 2,284.80	\$ 4.75	\$ 807.50	\$ 8.00	\$ 1,360.00
7	Remove Existing Storm Structures, Sewers and Appurtenances	1	LS	\$ 840.00	\$ 840.00	\$ 1,650.00	\$ 1,650.00	\$ 1,600.00	\$ 1,600.00
8	Remove Bituminous Street Pavement	75	SYD	\$ 16.80	\$ 1,260.00	\$ 6.00	\$ 450.00	\$ 13.00	\$ 975.00
9	Remove Concrete Curb and Gutter	480	LFT	\$ 13.44	\$ 6,451.20	\$ 7.00	\$ 3,360.00	\$ 6.00	\$ 2,880.00
10	Mill Bituminous Butt Joint	75	SYD	\$ 17.92	\$ 1,344.00	\$ 18.00	\$ 1,350.00	\$ 19.00	\$ 1,425.00
11	Remove and Reset Sign	3	EA	\$ 224.00	\$ 672.00	\$ 150.00	\$ 450.00	\$ 176.00	\$ 528.00
12	Storm Sewer, CMP (12 Ga.) (24-inch)	12	LFT	\$ 134.40	\$ 1,612.80	\$ 105.00	\$ 1,260.00	\$ 140.00	\$ 1,680.00
13	Perforated Wrapped Underdrain (6-inch)	550	LFT	\$ 11.20	\$ 6,160.00	\$ 11.00	\$ 6,050.00	\$ 9.00	\$ 4,950.00
14	RCP, C-76, CL V, Open-Cut (12-inch)	75	LFT	\$ 134.40	\$ 10,080.00	\$ 85.00	\$ 6,375.00	\$ 47.00	\$ 3,525.00
15	4' Dia. Catch Basin	1	EA	\$ 1,344.00	\$ 1,344.00	\$ 1,750.00	\$ 1,750.00	\$ 2,100.00	\$ 2,100.00
16	4' Dia. Storm Manhole	2	EA	\$ 1,120.00	\$ 2,240.00	\$ 1,900.00	\$ 3,800.00	\$ 2,300.00	\$ 4,600.00
17	Machine Grading (Modified)	1	LS	\$ 3,920.00	\$ 3,920.00	\$ 4,000.00	\$ 4,000.00	\$ 27,700.00	\$ 27,700.00
18	Subgrade Undercutting, 21AA	40	CYD	\$ 33.60	\$ 1,344.00	\$ 25.00	\$ 1,000.00	\$ 55.00	\$ 2,200.00
19	Relocate Existing Hydrant Assembly	1	LS	\$ 7,280.00	\$ 7,280.00	\$ 5,000.00	\$ 5,000.00	\$ 2,800.00	\$ 2,800.00
20	21AA Limestone Aggregate Base (12-inch, CIP)	350	SYD	\$ 16.80	\$ 5,880.00	\$ 20.00	\$ 7,000.00	\$ 20.00	\$ 7,000.00
21	Block Retaining Wall	1,050	SFT	\$ 22.40	\$ 23,520.00	\$ 22.00	\$ 23,100.00	\$ 37.00	\$ 38,850.00
22	Concrete Curb and Gutter (MDOT F-4)	500	LFT	\$ 16.80	\$ 8,400.00	\$ 25.00	\$ 12,500.00	\$ 21.50	\$ 10,750.00
23	Concrete Sidewalk (4-inch, CIP)	2,700	SFT	\$ 5.60	\$ 15,120.00	\$ 3.80	\$ 10,260.00	\$ 5.20	\$ 14,040.00
24	Adjust Structure Cover	2	EA	\$ 280.00	\$ 560.00	\$ 275.00	\$ 550.00	\$ 350.00	\$ 700.00
25	HMA Leveling Course, MDOT 1500L	60	TON	\$ 105.28	\$ 6,316.80	\$ 120.00	\$ 7,200.00	\$ 145.00	\$ 8,700.00
26	HMA Wearing Course, MDOT 1500T	40	TON	\$ 123.20	\$ 4,928.00	\$ 130.00	\$ 5,200.00	\$ 190.00	\$ 7,600.00
27	R3-8 Lane Use Control Sign	4	EA	\$ 224.00	\$ 896.00	\$ 335.00	\$ 1,340.00	\$ 450.00	\$ 1,800.00

Bid Tabulation  
for the  
11 Mile Road and Meadowbrook Road Intersection Improvements  
for the  
City of Novi, Michigan

Bid Date: Thursday, July 17, 2008  
2:00 P.M., Local Time

Stantec Project No.: 2075108700

Contractor				Anglin Civil Constructors 42750 Grand River Ave. Novi, MI 48375 248-380-7860		Lacaria Concrete Construction 3720 Central Avenue Detroit, MI 48710 313-843-3865		ABC Paving 2650 Van Horn Road Trenton, MI 48183 734-676-2020	
Item No.	Item	Qty.	Units	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<b>BASE PRICE</b>									
28	W3-3 New Signal Ahead Sign	4	EA	\$ 224.00	\$ 896.00	\$ 400.00	\$ 1,600.00	\$ 450.00	\$ 1,800.00
29	D3-2 Advance Street Name Sign	4	EA	\$ 224.00	\$ 896.00	\$ 330.00	\$ 1,320.00	\$ 450.00	\$ 1,800.00
30	"Sidewalk Ends Ahead" Sign	1	EA	\$ 224.00	\$ 224.00	\$ 275.00	\$ 275.00	\$ 450.00	\$ 450.00
31	Pavement Marking, Waterborne, Solid White (4-inch)	120	LFT	\$ 2.24	\$ 268.80	\$ 1.50	\$ 180.00	\$ 1.35	\$ 162.00
32	Pavement Marking, Waterborne, Double Yellow (4-inch)	270	LFT	\$ 2.24	\$ 604.80	\$ 3.00	\$ 810.00	\$ 2.70	\$ 729.00
33	Pavement Marking, ThermoPlastic, Stop Bar (24-inch)	120	LFT	\$ 12.04	\$ 1,444.80	\$ 12.00	\$ 1,440.00	\$ 10.50	\$ 1,260.00
34	Pavement Marking, ThermoPlastic, Crosswalk (6-inch)	420	LFT	\$ 6.44	\$ 2,704.80	\$ 3.00	\$ 1,260.00	\$ 2.25	\$ 945.00
35	Pavement Marking, Ovly Cold Plastic, Left Arrow Symbol	1	EA	\$ 134.40	\$ 134.40	\$ 175.00	\$ 175.00	\$ 150.00	\$ 150.00
36	Pavement Marking, Ovly Cold Plastic, "Ovly" Legend	1	EA	\$ 900.00	\$ 900.00	\$ 185.00	\$ 185.00	\$ 165.00	\$ 165.00
37	Right/Thru Symbol	1	EA	\$ 224.00	\$ 224.00	\$ 215.00	\$ 215.00	\$ 195.00	\$ 195.00
38	Restoration	1	LS	\$ 4,480.00	\$ 4,480.00	\$ 4,800.00	\$ 4,800.00	\$ 4,200.00	\$ 4,200.00
39	Turf Watering and Maintenance	1	LS	\$ 2,800.00	\$ 2,800.00	\$ 2,000.00	\$ 2,000.00	\$ 2,600.00	\$ 2,600.00
40	Traffic Maintenance	1	LS	\$ 5,600.00	\$ 5,600.00	\$ 15,500.00	\$ 15,500.00	\$ 17,000.00	\$ 17,000.00
<b>Traffic Signal</b>									
41	Span Wire, Box	1	EA	\$ 1,483.00	\$ 1,483.00	\$ 2,100.00	\$ 2,100.00	\$ 1,750.00	\$ 1,750.00
42	TS, One Way Span Wire Mtd. (LED)	8	EA	\$ 900.00	\$ 7,200.00	\$ 1,200.00	\$ 9,600.00	\$ 1,000.00	\$ 8,000.00
43	TS, One Way Span Wire Mtd., Four Section (LED)	4	EA	\$ 1,130.00	\$ 4,520.00	\$ 1,300.00	\$ 5,200.00	\$ 1,350.00	\$ 5,400.00
44	TS, Pedestrian, Two Way Bracket Arm Mtd. (LED) Countdown	4	EA	\$ 1,645.00	\$ 6,580.00	\$ 1,800.00	\$ 7,200.00	\$ 2,000.00	\$ 8,000.00
45	Pushbutton and Sign, Modified	8	EA	\$ 452.00	\$ 3,616.00	\$ 545.00	\$ 4,360.00	\$ 500.00	\$ 4,000.00
46	Controller and Cabinet, Solid State Actuated, Modified	1	EA	\$ 888.00	\$ 888.00	\$ 600.00	\$ 600.00	\$ 1,000.00	\$ 1,000.00
47	Controller and Cabinet, Solid State Actuated, Delivered, Modified	1	EA	\$ 12,195.00	\$ 12,195.00	\$ 22,000.00	\$ 22,000.00	\$ 14,000.00	\$ 14,000.00
48	Auloscope Camera (Solo Pro)	4	EA	\$ 370.00	\$ 1,480.00	\$ 550.00	\$ 2,200.00	\$ 400.00	\$ 1,600.00
49	Controller Fdn., Base Mount	1	EA	\$ 1,222.00	\$ 1,222.00	\$ 1,100.00	\$ 1,100.00	\$ 1,400.00	\$ 1,400.00

Bid Tabulation  
for the  
11 Mile Road and Meadowbrook Road Intersection Improvements  
for the  
City of Novi, Michigan

Bid Date: Thursday, July 17, 2008  
2:00 P.M., Local Time

Stantec Project No.: 2075108700

Contractor				Anglin Civil Constructors 42750 Grand River Ave. Novi, MI 48375 248-380-7860		Lacaria Concrete Construction 3720 Central Avenue Detroit, MI 48710 313-843-3865		ABC Paving 2650 Van Horn Road Trenton, MI 48183 734-676-2020	
Item No.	Item	Qty.	Units	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<b>BASE PRICE</b>									
50	Conduit, DB, 1, 1-1/4 inch	140	FT	\$ 10.95	\$ 1,533.00	\$ 6.60	\$ 924.00	\$ 13.00	\$ 1,820.00
51	Conduit, DB, 1, 3 inch	10	LFT	\$ 25.10	\$ 251.00	\$ 11.00	\$ 110.00	\$ 30.00	\$ 300.00
52	Conduit, DB, 2, 3 inch	15	LFT	\$ 32.75	\$ 491.25	\$ 17.00	\$ 255.00	\$ 35.00	\$ 525.00
53	Conduit, DB, 3, 4 inch	5	LFT	\$ 51.80	\$ 259.00	\$ 28.00	\$ 140.00	\$ 60.00	\$ 300.00
54	Hh, Round	3	EA	\$ 834.00	\$ 2,502.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00
55	Hh, Square	1	EA	\$ 1,690.00	\$ 1,690.00	\$ 2,300.00	\$ 2,300.00	\$ 2,000.00	\$ 2,000.00
56	Wood Pole, Fit Up, TS Cable Pole	1	EA	\$ 409.00	\$ 409.00	\$ 545.00	\$ 545.00	\$ 450.00	\$ 450.00
57	Wood Pole, Fit Up, TS and Sec. Cable Pole	1	EA	\$ 409.00	\$ 409.00	\$ 545.00	\$ 545.00	\$ 450.00	\$ 450.00
58	Modified	2	EA	\$ 4,960.00	\$ 9,920.00	\$ 4,650.00	\$ 9,300.00	\$ 5,500.00	\$ 11,000.00
59	Strain Pole, Steel, Anchor Fdn.	2	EA	\$ 3,000.00	\$ 6,000.00	\$ 3,400.00	\$ 6,800.00	\$ 3,500.00	\$ 7,000.00
60	Pushbutton Support Post	8	EA	\$ 204.00	\$ 1,632.00	\$ 475.00	\$ 3,800.00	\$ 240.00	\$ 1,920.00
61	Bracket Arm, 15 Feet	2	EA	\$ 742.00	\$ 1,484.00	\$ 1,100.00	\$ 2,200.00	\$ 850.00	\$ 1,700.00
62	Bracket Arm, 18 feet	2	EA	\$ 827.00	\$ 1,654.00	\$ 1,350.00	\$ 2,700.00	\$ 950.00	\$ 1,900.00
63	Safely Switch	1	EA	\$ 904.00	\$ 904.00	\$ 700.00	\$ 700.00	\$ 1,000.00	\$ 1,000.00
64	Ground	65	FT	\$ 6.28	\$ 408.20	\$ 5.00	\$ 325.00	\$ 7.50	\$ 487.50
65	Optical Priority Control System	1	EA	\$ 5,934.00	\$ 5,934.00	\$ 5,850.00	\$ 5,850.00	\$ 7,000.00	\$ 7,000.00
66	(Estimated)	1	LS	\$ 40,500.00	\$ 40,500.00	\$ 40,500.00	\$ 40,500.00	\$ 40,500.00	\$ 40,500.00
67	Audio-Video Route Survey	1	LS	\$ 1,680.00	\$ 1,680.00	\$ 1,550.00	\$ 1,550.00	\$ 1,000.00	\$ 1,000.00
68	Electrical Service Lead Allowance	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00
<b>TOTAL BASE BID PRICE (1-68):</b>				<b>\$</b>	<b>290,243.65</b>	<b>\$</b>	<b>303,756.50</b>	<b>\$</b>	<b>348,421.50</b>

Amount indicated on Applicant's bid is \$811.75  
Amount indicated on Applicant's bid is \$306,760.75  
Amount indicated on Applicant's bid is \$293,976.82



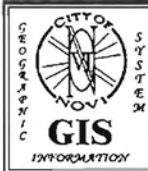
# Existing Intersection Layout

## Meadowbrook Road and Eleven Mile Road

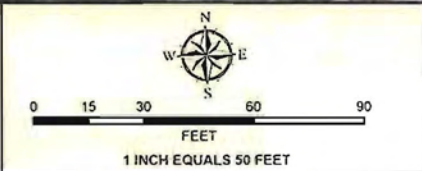
Map Publication Date: November 19, 2007



### Legend



**CITY OF NOVI**  
 ENTER DEPT NAME HERE  
 ENTER DEPARTMENT INFO HERE  
 NOVI CITY HALL/CIVIC CENTER  
 45175 W. TEN MILE ROAD  
 NOVI, MI 48375-3024  
 (248) ENTER PHONE NUMBER  
 WWW.CITYOFNOVI.ORG  
 MAP AUTHOR: Brian Coburn, PE



**MAP SOURCES OF INFORMATION**  
 Describe your sources of map information here

**MAP INTERPRETATION DISCLAIMER**  
 This map is neither a legally recorded map nor a survey and is not intended to be used as one. This map is a compilation of records, information, and data located in various city, county, state, and federal offices and other sources regarding the area shown, and is to be used for reference purposes only. The City of Novi makes no warranty, express or implied, that the Geographic Information Systems (GIS) Data used to prepare this map are error free, and the City of Novi does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. Official records should be used as a primary information source for verification of the information provided on these pages.





BOXSPAN CONFIGURATION  
AT 13 MILE + MEADOW BROOK



**Coburn, Brian**

**From:** Coburn, Brian  
**Sent:** Friday, March 28, 2008 9:34 AM  
**To:** Hayes, Rob  
**Subject:** Meadowbrook and 11 Mile  
**Attachments:** Construction Estimate with Mast Arms.pdf; Construction Estimate with Box Span Wire.pdf

Rob,

Attached are the latest cost estimates from Stantec for the new traffic signal at Meadowbrook Road and 11 Mile Road. There are two estimates attached one for a traditional signal configuration (box span on wires) and one with the signals installed on mast arms. The mast arms will cost approximately \$92,000 more (including contingencies) than the box span. You will also notice that our cost estimate has increased slightly to include the proposed retaining wall along the south side of Eleven Mile which will allow us to align the left turn movements. The original amount as requested in the CIP for FY08-09 was \$347,000 including construction engineering. The revised amounts are as shown below:

Traffic Signal Configuration	Construction Estimate*	Construction Engineering (6%)	Estimated FY08-09 Budget Request
<i>Original Estimate</i>	\$326,227	\$19,573	\$345,800
Traditional Box Span Signal Configuration	\$354,000	\$21,240	\$375,240
Mast Arm Configuration	\$446,000	\$26,760	\$472,760

\*Construction estimates include RCOC Force Account work.

Stantec is in the process of developing 90% review plans in anticipation of a public meeting with the surrounding property owners in late April following a direction from City Council in the budget discussions.

Please let me know if you have any questions.

Brian

Brian T. Coburn, P.E.  
[bcoburn@cityofnovi.org](mailto:bcoburn@cityofnovi.org)

CITY OF NOVI ENGINEERING DEPT.  
 45175 W Ten Mile Rd.  
 Novi, MI 48375

(Off) 248-735-5632  
 (Cell) 248-521-5431  
 (Fax) 248-735-5683