



## CITY of NOVI CITY COUNCIL

**Agenda Item 3**  
**June 17, 2013**

**SUBJECT:** Approval to award a construction contract for the Novi Road/Old Novi Road Traffic Signal Modernization Project to Dan's Excavating, Inc., the lowest responsive bidder, in the amount of \$209,858.

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

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

<b>EXPENDITURE REQUIRED</b>	<b>\$209,858</b>
<b>AMOUNT BUDGETED</b>	<b>\$230,734</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 45,721</b>
<b>LINE ITEM NUMBER</b>	<b>202-202.00-865.115</b>

### BACKGROUND INFORMATION:

The traffic signal at the intersection of Novi Road and Old Novi Road/Sandstone Drive was irreparably damaged by a vehicular crash on January 1, 2013. The crash caused major damage to the signal's electrical equipment (control panel, traffic detection system, communications, signals, etc.) requiring a complete replacement of the signal. The traffic signal is owned by the City, but is maintained by the Road Commission for Oakland County (RCOC) under a maintenance agreement. A temporary traffic signal was installed by RCOC to maintain the safe movement of traffic at the intersection, which is located on a curve with limited sight distance (location map, attached). The temporary signal was installed as a short-term solution for this intersection using salvaged equipment and should be replaced in a timely manner. The temporary signal is unable to communicate with the Oakland County Traffic Operations Center and does not include left turn phases for Novi Road; therefore, the operation of the temporary signal is not optimized.

The design for the new signal includes the appropriate upgrades and modernization as necessary to bring the intersection up to current standards. This project also includes improvements to the sidewalk and ramps at the intersection as necessary to comply with the Americans with Disabilities Act standards. The reconstruction of the signal provides an opportunity to upgrade the signal with the installation of mast arm signal poles at this intersection because Novi Road is one of the three corridors in the City designated for mast arm traffic signals. (Grand River Avenue and 12 Mile Road are the other two.) Since there is a long lead time to procure the mast arms, staff worked with URS to publicly advertise and procure the mast arms in advance of awarding the construction contract to expedite the installation of the permanent signal.

Staff is working with the City's property and liability insurer, the Stevenson Company, to recoup costs for the reconstruction of the signal. Engineering has provided the insurer with total project cost including all costs incurred to date and anticipated costs to complete the project. It is our understanding that City would not be reimbursed for the mast arms and related work that would be considered an upgrade to the original signal that was damaged.

Four (4) bids were received and opened on June 5, 2013 following a public bid solicitation period. The low bidder is Dan's Excavating (Dan's). Dan's bid is recommended as being in the best interest of the City as it is responsive (i.e. Dan's has complied with all requirements of the bidding instructions) and it is the lowest price. (URS' award recommendation letter including the bid tabulation dated June 11, 2013 is attached.) A summary of the four bids is as follows:

<b>Contractor</b>	<b>Bid Price (including Crew Days)*</b>
Dan's Excavating, Inc.	\$216,258.37
J. Ranck Electric, Inc.	\$239,601.05
Rauhorn Electric, Inc.	\$242,199.23
Michigan State Electric, Inc.	\$261,744.00

\*Crew Days are included to compare bids, but are not included in the award.

This budgeted amount for this project for FY2012-13 is \$230,734 for construction and engineering, of which \$19,795 was awarded for design engineering, \$28,485 was awarded for the advanced procurement of the mast arms and standards, \$209,858 is now being recommended for award to Dan's for construction, and \$18,317 is also recommended for award to URS for construction engineering services (a separate item on this agenda) for total contract awards in the amount of \$276,455.

It is anticipated that the project will be completed by August 22, 2013.

**RECOMMENDED ACTION:** Approval to award a construction contract for the Novi Road/Old Novi Road Traffic Signal Modernization Project to Dan's Excavating, Inc., the lowest responsive bidder, in the amount of \$209,858.

	<b>1</b>	<b>2</b>	<b>Y</b>	<b>N</b>
<b>Mayor Gatt</b>				
<b>Mayor Pro Tem Staudt</b>				
<b>Council Member Casey</b>				
<b>Council Member Fischer</b>				

	<b>1</b>	<b>2</b>	<b>Y</b>	<b>N</b>
<b>Council Member Margolis</b>				
<b>Council Member Mutch</b>				
<b>Council Member Wrobel</b>				



# Location Map

## Novi Road/Old Novi Road/Sandstone Drive Intersection



Project Location

Map Author: Brian Coburn  
 Date: 2/4/13  
 Project:  
 Version #:

**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.



**City of Novi**  
 Engineering Division  
 Department of Public Services  
 26300 Lee BeGole Drive  
 Novi, MI 48375  
[cityofnovi.org](http://cityofnovi.org)



1 inch = 227 feet





June 11, 2013

Mr. Ben Croy, PE  
City of Novi  
Engineering Department  
26300 Lee Begole Drive  
Novi, MI 48375

Reference: Bid Analysis and Contract Award Recommendation  
Novi Road/Old Novi Road Traffic Signal Modernization Project  
URS Project Number 12943949

Dear Mr. Croy:

Attached is the Bid Tabulation for the above referenced project. Four (4) bids were received and opened. Competition appears to have been adequate. The bid received from Dan's Excavating, Inc., the apparent low bidder, did not include an entry for the Crew Days item and for this reason is irregular. Although there is no entry for crew days, the total bid entered by Dan's Excavating, Inc. is \$6,400.00 more than the sum of the items that they entered. The Unit Price for the Crew Day Item is \$640.00 so it appears that Dan's may have intended to enter 10 Crew Days. With Ten Crew Days entered, the sum of the items equals the total bid entered.

We called Dan's Excavating, Inc. to discuss the irregularity in their bid. They stated that their intent was to enter 10 Crew Days and that the total bid amount entered is correct. They requested that the irregularity in their bid be waived and that they be awarded the contract.

There are no other irregularities or arithmetic errors noted in the bids. The bonding company listed in the statement of qualifications has an A.M. Best Key rating of "A", which exceeds the minimum requirements. We have worked with Dan's Excavating, Inc. on numerous projects, including a large MDOT project for installation of electrical ITS facilities, and they have performed well.

We therefore recommend that the irregularity be waived and the contract awarded to the lowest bidder, Dan's Excavating, Inc. for the Bid amount, excluding crew day costs, of \$209,858.

Please call me at 616 574-8497 if you need anything else or wish to discuss the project.

Sincerely,

URS, Inc.

For:

Sean Kelsch, P.E.  
Project Manager

cc: Jason Fisher, URS

**City of Novi**  
**Novi Road/Old Novi Road Traffic Signal Modernization Project**  
**Tabulation of Bids**  
**Bids Opened 06/05/2013**  
**JN 12943949**

Item No.	Item Description	Unit	Quantity	Engineers Estimate		Dan's Excavating Inc.		J. Ranck Electric, Inc.		Rauhorn Electric, Inc.		Michigan State Electric, Inc.	
				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
1	Mobilization, Max 5%	LS	1	\$ 10,504.65	\$ 10,504.65	9,000.00	\$ 9,000.00	\$ 10,000.00	\$ 10,000.00	\$ 7,193.00	\$ 7,193.00	13,000.00	\$ 13,000.00
2	Curb and Gutter, Rem	Ft	110	\$ 5.46	\$ 600.60	\$ 15.24	\$ 1,676.40	\$ 12.25	\$ 1,347.50	\$ 10.12	\$ 1,113.20	\$ 20.00	\$ 2,200.00
3	Sidewalk, Rem	Syd	148	\$ 6.28	\$ 929.44	\$ 6.80	\$ 1,006.40	\$ 8.50	\$ 1,258.00	\$ 7.87	\$ 1,164.76	\$ 15.00	\$ 2,220.00
4	Erosion Control, Inlet Protection, Fabric Drop	Ea	4	\$ 75.23	\$ 300.92	\$ 155.17	\$ 620.68	\$ 80.00	\$ 320.00	\$ 112.50	\$ 450.00	\$ 125.00	\$ 500.00
5	Erosion Control, Silt Fence	Ft	200	\$ 1.50	\$ 300.00	\$ 2.39	\$ 478.00	\$ 1.60	\$ 320.00	\$ 2.81	\$ 562.00	\$ 3.00	\$ 600.00
6	Subbase, CIP	Cyd	23	\$ 8.16	\$ 187.68	\$ 35.27	\$ 811.21	\$ 25.50	\$ 586.50	\$ 28.12	\$ 646.76	\$ 50.00	\$ 1,150.00
7	Dr Structure Cover, Adj, Case 2	Ea	1	\$ 308.59	\$ 308.59	\$ 520.25	\$ 520.25	\$ 225.00	\$ 225.00	\$ 450.00	\$ 450.00	\$ 750.00	\$ 750.00
8	Concrete Curb and Gutter	Ft	110	\$ 18.00	\$ 1,980.00	\$ 24.50	\$ 2,695.00	\$ 25.00	\$ 2,750.00	\$ 27.55	\$ 3,030.50	\$ 35.00	\$ 3,850.00
9	Detectable Warning Surface	Sft	106	\$ 16.70	\$ 1,770.20	\$ 33.50	\$ 3,551.00	\$ 19.80	\$ 2,098.80	\$ 37.67	\$ 3,993.02	\$ 15.00	\$ 1,590.00
10	Sidewalk, Conc, 4 inch	Sft	413	\$ 2.67	\$ 1,102.71	\$ 4.75	\$ 1,961.75	\$ 4.25	\$ 1,755.25	\$ 5.34	\$ 2,205.42	\$ 5.00	\$ 2,065.00
11	Sidewalk Ramp, Conc, 6 inch	Sft	1075	\$ 4.89	\$ 5,256.75	\$ 4.75	\$ 5,106.25	\$ 6.00	\$ 6,450.00	\$ 5.34	\$ 5,740.50	\$ 10.00	\$ 10,750.00
12	Gate Box, Adj, Case 2	Ea	1	\$ 219.77	\$ 219.77	\$ 427.28	\$ 427.28	\$ 150.00	\$ 150.00	\$ 450.00	\$ 450.00	\$ 400.00	\$ 400.00
13	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	Ft	420	\$ 2.08	\$ 873.60	\$ 3.50	\$ 1,470.00	\$ 4.00	\$ 1,680.00	\$ 3.94	\$ 1,654.80	\$ 3.50	\$ 1,470.00
14	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	Ft	36	\$ 7.79	\$ 280.44	\$ 14.00	\$ 504.00	\$ 15.00	\$ 540.00	\$ 15.74	\$ 566.64	\$ 14.00	\$ 504.00
15	Rem Spec Mrkg	Sft	280	\$ 1.35	\$ 378.00	\$ 1.50	\$ 420.00	\$ 1.75	\$ 490.00	\$ 1.69	\$ 473.20	\$ 1.50	\$ 420.00
16	Surface Restoration	LS	1	\$ 1,000.00	\$ 1,000.00	\$ 4,008.06	\$ 4,008.06	\$ 400.00	\$ 400.00	\$ 2,812.00	\$ 2,812.00	\$ 1,500.00	\$ 1,500.00
17	Maintaining Traffic	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 24,380.70	\$ 24,380.70	\$ 6,060.00	\$ 6,060.00	\$ 2,398.00	\$ 2,398.00	\$ 1,500.00	\$ 1,500.00
18	RCOC Force Account Fees	Dlr	12000	\$ 1.00	\$ 12,000.00	\$ 1.00	\$ 12,000.00	\$ 1.00	\$ 12,000.00	\$ 1.00	\$ 12,000.00	\$ 1.00	\$ 12,000.00
19	Hh, Rem	Ea	4	\$ 107.61	\$ 430.44	\$ 174.68	\$ 698.72	\$ 150.00	\$ 600.00	\$ 184.50	\$ 738.00	\$ 300.00	\$ 1,200.00
20	Case Sign, Rem	Ea	3	\$ 73.74	\$ 221.22	\$ 82.68	\$ 248.04	\$ 100.00	\$ 300.00	\$ 108.75	\$ 326.25	\$ 100.00	\$ 300.00
21	Fdn, Rem	Ea	2	\$ 396.97	\$ 793.94	\$ 184.07	\$ 368.14	\$ 500.00	\$ 1,000.00	\$ 705.75	\$ 1,411.50	\$ 500.00	\$ 1,000.00
22	Pedestal Fdn, Rem	Ea	2	\$ 137.18	\$ 274.36	\$ 82.65	\$ 165.30	\$ 150.00	\$ 300.00	\$ 230.75	\$ 461.50	\$ 300.00	\$ 600.00
23	Pedestal, Rem	Ea	2	\$ 66.84	\$ 133.68	\$ 82.96	\$ 165.92	\$ 100.00	\$ 200.00	\$ 90.49	\$ 180.98	\$ 100.00	\$ 200.00
24	Span Wire, Rem	Ea	1	\$ 117.87	\$ 117.87	\$ 165.92	\$ 165.92	\$ 200.00	\$ 200.00	\$ 163.25	\$ 163.25	\$ 100.00	\$ 100.00
25	Steel Pole, Rem	Ea	2	\$ 196.57	\$ 393.14	\$ 189.02	\$ 378.04	\$ 400.00	\$ 800.00	\$ 203.00	\$ 406.00	\$ 300.00	\$ 600.00
26	TS, Pedestal Mtd, Rem	Ea	2	\$ 71.74	\$ 143.48	\$ 103.06	\$ 206.12	\$ 100.00	\$ 200.00	\$ 89.67	\$ 179.34	\$ 100.00	\$ 200.00
27	TS, Pedestrian, Bracket Arm Mtd, Rem	Ea	2	\$ 63.01	\$ 126.02	\$ 82.96	\$ 165.92	\$ 100.00	\$ 200.00	\$ 72.57	\$ 145.14	\$ 100.00	\$ 200.00
28	TS, Pedestrian, Pedestal Mtd, Rem	Ea	2	\$ 61.57	\$ 123.14	\$ 82.96	\$ 165.92	\$ 100.00	\$ 200.00	\$ 70.64	\$ 141.28	\$ 100.00	\$ 200.00
29	TS, Span Wire Mtd, Rem	Ea	5	\$ 68.62	\$ 343.10	\$ 62.01	\$ 310.05	\$ 100.00	\$ 500.00	\$ 84.22	\$ 421.10	\$ 100.00	\$ 500.00
30	Bracket, Truss, Rem	Ea	1	\$ 83.21	\$ 83.21	\$ 82.09	\$ 82.09	\$ 100.00	\$ 100.00	\$ 81.87	\$ 81.87	\$ 300.00	\$ 300.00
31	Controller and Cabinet, Rem	Ea	1	\$ 123.84	\$ 123.84	\$ 165.92	\$ 165.92	\$ 150.00	\$ 150.00	\$ 146.75	\$ 146.75	\$ 100.00	\$ 100.00
32	Controller Fdn, Rem	Ea	1	\$ 199.92	\$ 199.92	\$ 224.77	\$ 224.77	\$ 200.00	\$ 200.00	\$ 323.50	\$ 323.50	\$ 300.00	\$ 300.00
33	Safety Switch, Rem	Ea	1	\$ 85.00	\$ 85.00	\$ 82.09	\$ 82.09	\$ 100.00	\$ 100.00	\$ 68.27	\$ 68.27	\$ 100.00	\$ 100.00



**City of Novi**  
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**Bids Opened 06/05/2013**  
**JN 12943949**

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				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
34	Conduit, DB, 1, 1 1/4 inch	Ft	230	\$ 7.74	\$ 1,780.20	\$ 4.28	\$ 984.40	\$ 6.00	\$ 1,380.00	\$ 13.90	\$ 3,197.00	\$ 7.00	\$ 1,610.00
35	Conduit, DB, 1, 3 inch	Ft	30	\$ 6.47	\$ 194.10	\$ 6.98	\$ 209.40	\$ 10.00	\$ 300.00	\$ 28.01	\$ 840.30	\$ 9.00	\$ 270.00
36	Conduit, DB, 2, 3 inch	Ft	10	\$ 8.00	\$ 80.00	\$ 10.01	\$ 100.10	\$ 18.00	\$ 180.00	\$ 29.61	\$ 296.10	\$ 12.00	\$ 120.00
37	Conduit, DB, 3, 3 inch	Ft	60	\$ 13.89	\$ 833.40	\$ 10.70	\$ 642.00	\$ 25.00	\$ 1,500.00	\$ 25.92	\$ 1,555.20	\$ 15.00	\$ 900.00
38	Conduit, DB, 3, 4 inch	Ft	10	\$ 35.00	\$ 350.00	\$ 18.32	\$ 183.20	\$ 30.00	\$ 300.00	\$ 63.84	\$ 638.40	\$ 25.00	\$ 250.00
39	Hh, Round	Ea	3	\$ 726.26	\$ 2,178.78	\$ 715.84	\$ 2,147.52	\$ 900.00	\$ 2,700.00	\$ 963.00	\$ 2,889.00	\$ 750.00	\$ 2,250.00
40	Hh, Square, RCOC	Ea	1	\$ 1,500.00	\$ 1,500.00	\$ 1,388.13	\$ 1,388.13	\$ 2,000.00	\$ 2,000.00	\$ 1,916.00	\$ 1,916.00	\$ 1,500.00	\$ 1,500.00
41	Wood Pole, Fit Up, Sec Cable Pole	Ea	1	\$ 427.57	\$ 427.57	\$ 416.31	\$ 416.31	\$ 550.00	\$ 550.00	\$ 421.00	\$ 421.00	\$ 500.00	\$ 500.00
42	Conduit, Directional Bore, 3, 3 inch	Ft	290	\$ 20.00	\$ 5,800.00	\$ 34.58	\$ 10,028.20	\$ 34.00	\$ 9,860.00	\$ 57.48	\$ 16,669.20	\$ 20.00	\$ 5,800.00
43	Optical Priority Control System, RCOC	Ea	1	\$ 5,500.00	\$ 5,500.00	\$ 4,000.05	\$ 4,000.05	\$ 4,000.00	\$ 4,000.00	\$ 4,987.00	\$ 4,987.00	\$ 5,350.00	\$ 5,350.00
44	Controller and Cabinet, Digital Type, RCOC	Ea	1	\$ 500.00	\$ 500.00	\$ 496.05	\$ 496.05	\$ 600.00	\$ 600.00	\$ 267.75	\$ 267.75	\$ 3,000.00	\$ 3,000.00
45	Controller and Cabinet, Digital Type, Delivered, RCOC	Ea	1	\$ 20,000.00	\$ 20,000.00	\$ 12,720.00	\$ 12,720.00	\$ 30,000.00	\$ 30,000.00	\$ 17,531.00	\$ 17,531.00	\$ 18,300.00	\$ 18,300.00
46	Controller Fdn, Base Mount	Ea	1	\$ 1,825.00	\$ 1,825.00	\$ 1,066.82	\$ 1,066.82	\$ 1,400.00	\$ 1,400.00	\$ 1,385.00	\$ 1,385.00	\$ 1,000.00	\$ 1,000.00
47	Pedestal, Alum, RCOC	Ea	1	\$ 600.00	\$ 600.00	\$ 590.43	\$ 590.43	\$ 600.00	\$ 600.00	\$ 672.00	\$ 672.00	\$ 850.00	\$ 850.00
48	Pedestal, Fdn	Ea	1	\$ 655.56	\$ 655.56	\$ 415.25	\$ 415.25	\$ 700.00	\$ 700.00	\$ 997.25	\$ 997.25	\$ 400.00	\$ 400.00
49	Pushbutton and Sign, RCOC	Ea	8	\$ 440.00	\$ 3,520.00	\$ 320.57	\$ 2,564.56	\$ 550.00	\$ 4,400.00	\$ 520.50	\$ 4,164.00	\$ 1,100.00	\$ 8,800.00
50	Pushbutton Support Post	Ea	7	\$ 675.00	\$ 4,725.00	\$ 603.54	\$ 4,224.78	\$ 600.00	\$ 4,200.00	\$ 587.50	\$ 4,112.50	\$ 750.00	\$ 5,250.00
51	TS, One Way Mast Arm, Mtd, FYA (LED)	Ea	2	\$ 1,117.63	\$ 2,235.26	\$ 1,035.45	\$ 2,070.90	\$ 1,200.00	\$ 2,400.00	\$ 1,461.00	\$ 2,922.00	\$ 1,550.00	\$ 3,100.00
52	TS, 4 <sup>th</sup> level RTGA (LED)	Ea	2	\$ 1,400.00	\$ 2,800.00	\$ 288.73	\$ 577.46	\$ 800.00	\$ 1,600.00	\$ 234.75	\$ 469.50	\$ 550.00	\$ 1,100.00
53	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	Ea	1	\$ 856.23	\$ 856.23	\$ 934.68	\$ 934.68	\$ 1,000.00	\$ 1,000.00	\$ 916.00	\$ 916.00	\$ 1,300.00	\$ 1,300.00
54	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	Ea	3	\$ 1,277.23	\$ 3,831.69	\$ 1,252.67	\$ 3,758.01	\$ 1,400.00	\$ 4,200.00	\$ 1,634.00	\$ 4,902.00	\$ 1,700.00	\$ 5,100.00
55	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	Ea	1	\$ 827.56	\$ 827.56	\$ 956.94	\$ 956.94	\$ 1,000.00	\$ 1,000.00	\$ 900.75	\$ 900.75	\$ 1,275.00	\$ 1,275.00
56	TS, One Way Mast Arm Mtd (LED)	Ea	8	\$ 935.12	\$ 7,480.96	\$ 800.36	\$ 6,402.88	\$ 1,000.00	\$ 8,000.00	\$ 1,175.00	\$ 9,400.00	\$ 1,400.00	\$ 11,200.00
57	TS, One Way Bracket Arm Mtd (LED)	Ea	2	\$ 1,100.00	\$ 2,200.00	\$ 934.67	\$ 1,869.34	\$ 1,000.00	\$ 2,000.00	\$ 1,209.00	\$ 2,418.00	\$ 1,300.00	\$ 2,600.00
58	Bracket Arm, 18 feet	Ea	4	\$ 1,000.00	\$ 4,000.00	\$ 900.00	\$ 3,600.00	\$ 900.00	\$ 3,600.00	\$ 855.75	\$ 3,423.00	\$ 800.00	\$ 3,200.00
59	Thermal Detection Camera, RCOC	Ea	4	\$ 5,500.00	\$ 22,000.00	\$ 4,862.06	\$ 19,448.24	\$ 5,500.00	\$ 22,000.00	\$ 5,579.00	\$ 22,316.00	\$ 6,000.00	\$ 24,000.00
60	Thermal Detection System (MVP), RCOC	Ea	1	\$ 16,500.00	\$ 16,500.00	\$ 11,530.09	\$ 11,530.09	\$ 11,000.00	\$ 11,000.00	\$ 12,692.00	\$ 12,692.00	\$ 14,000.00	\$ 14,000.00
61	Mast Arm, RCOC, Install	Ea	4	\$ 2,500.00	\$ 10,000.00	\$ 511.02	\$ 2,044.08	\$ 1,500.00	\$ 6,000.00	\$ 550.75	\$ 2,203.00	\$ 1,000.00	\$ 4,000.00
62	Mast Arm Std, 40 foot, RCOC, Install	Ea	4	\$ 2,750.00	\$ 11,000.00	\$ 411.81	\$ 1,647.24	\$ 1,500.00	\$ 6,000.00	\$ 594.50	\$ 2,378.00	\$ 1,650.00	\$ 6,600.00
63	Street Name Sign, Two Way, 6 feet	Ea	2	\$ 3,000.00	\$ 6,000.00	\$ 2,914.69	\$ 5,829.38	\$ 2,500.00	\$ 5,000.00	\$ 3,121.00	\$ 6,242.00	\$ 3,450.00	\$ 6,900.00
64	Street Name Sign, Two Way, 8 feet	Ea	2	\$ 3,500.00	\$ 7,000.00	\$ 3,390.63	\$ 6,781.26	\$ 2,800.00	\$ 5,600.00	\$ 3,628.00	\$ 7,256.00	\$ 4,200.00	\$ 8,400.00



**City of Novi**  
**Novi Road/Old Novi Road Traffic Signal Modernization Project**  
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				Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
65	Street Name Sign Bracket Arm, 8 Ft.	Ea	2	\$ 600.00	\$ 1,200.00	\$ 1,227.76	\$ 2,455.52	\$ 600.00	\$ 1,200.00	\$ 1,342.00	\$ 2,684.00	\$ 1,800.00	\$ 3,600.00
66	Street Name Sign Bracket Arm, 10 Ft.	Ea	2	\$ 600.00	\$ 1,200.00	\$ 1,227.76	\$ 2,455.52	\$ 700.00	\$ 1,400.00	\$ 1,342.00	\$ 2,684.00	\$ 2,200.00	\$ 4,400.00
67	Case Sign, One Way, 24 inch by 30 inch, Non-Illuminated, RCC	Ea	3	\$ 1,500.00	\$ 4,500.00	\$ 1,159.97	\$ 3,479.91	\$ 1,400.00	\$ 4,200.00	\$ 1,072.00	\$ 3,216.00	\$ 1,500.00	\$ 4,500.00
68	Mast Arm Std, Fdn, RCOG	Ea	4	\$ 3,700.00	\$ 14,800.00	\$ 2,564.76	\$ 10,259.04	\$ 5,000.00	\$ 20,000.00	\$ 4,733.00	\$ 18,932.00	\$ 3,500.00	\$ 14,000.00
69	Service Disconnect	Ea	1	\$ 825.00	\$ 825.00	\$ 648.13	\$ 648.13	\$ 1,000.00	\$ 1,000.00	\$ 942.25	\$ 942.25	\$ 850.00	\$ 850.00
70	Cable, Sec, 600V, 1, 2/C#4, #6 Ground, RCOG	Ft	175	\$ 4.00	\$ 700.00	\$ 4.77	\$ 834.75	\$ 5.00	\$ 875.00	\$ 6.44	\$ 1,127.00	\$ 5.00	\$ 875.00
71	Luminaire	Ea	2	\$ 1,000.00	\$ 2,000.00	\$ 1,396.02	\$ 2,792.04	\$ 1,000.00	\$ 2,000.00	\$ 1,136.00	\$ 2,272.00	\$ 2,900.00	\$ 5,800.00
72	Street Light Bracket Arm, Install	Ea	2	\$ 150.00	\$ 300.00	\$ 124.02	\$ 248.04	\$ 300.00	\$ 600.00	\$ 136.50	\$ 273.00	\$ 500.00	\$ 1,000.00
73	Street Lighting Control Unit	Ea	1	\$ 1,000.00	\$ 1,000.00	\$ 1,626.03	\$ 1,626.03	\$ 3,000.00	\$ 3,000.00	\$ 1,962.00	\$ 1,962.00	\$ 1,250.00	\$ 1,250.00
74	Cable, St Ltg, 600V, 1, 1/C#6 & 1, #6 Neutral	Ft	275	\$ 4.50	\$ 1,237.50	\$ 3.18	\$ 874.50	\$ 4.00	\$ 1,100.00	\$ 2.87	\$ 789.25	\$ 4.00	\$ 1,100.00
75	Cable, Equipment Grounding Wire, 1/C#10	Ft	275	\$ 0.67	\$ 184.25	\$ 1.19	\$ 327.25	\$ 1.00	\$ 275.00	\$ 0.59	\$ 162.25	\$ 1.00	\$ 275.00
76	Crew Days	Day	640	20.00	\$ 12,800.00	10.00	\$ 6,400.00	10.00	\$ 6,400.00	\$ 22.00	\$ 14,080.00	20.00	\$ 12,800.00
<b>Total:</b>					\$ 234,533.77		\$ 216,258.37		\$ 239,601.05		\$ 242,199.23		\$ 261,744.00
						<b>Award Amount</b>	<b>\$ 209,858.37</b>						

No mathematical errors found in the bids.  
Bid submitted by Dans Excavating, Inc. was unresponsive due to no entry made for Item 76, Crew Days, and was not considered.

Reviewed and Certified Correct:

*Leo Davies* 6-11-2013  
Leo Davies, PE  
URS Corporation