



CITY of NOVI CITY COUNCIL

Agenda Item 1
July 27, 2015

SUBJECT: Approval of the final payment to Rauhorn Electric, Inc. for the 2014 Traffic Signal Improvements Project in the amount of \$32,881.82.

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

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 640.00 Nine Mile-Haggerty \$ 960.00 Meadowbrook-8 Mile Signal \$ 1,600.00 Wixom-Glenwood Signal <u>\$29,681.82 Retainage</u> \$32,881.82 TOTAL
AMOUNT BUDGETED	\$ 47,970 (Nine Mile-Haggerty) \$ 165,440 (Meadowbrook-Eight Mile) \$ 179,616 (Wixom-Glenwood)
LINE ITEM NUMBER	204-204.00-974.439 (Nine Mile-Haggerty) 204-204.00-863.506 (Meadowbrook-8 Mile) 204-204.00-863.504 (Wixom-Glenwood)

BACKGROUND INFORMATION:

This project included traffic signal improvements to four intersections, including:

- Reconstruction and modernization of the existing traffic signal at the intersection of Meadowbrook Road and Eight Mile Road, to include a left turn signal added for eastbound Eight Mile at Meadowbrook Road.
- Construction of a new pathway connection crossing the north leg of the Haggerty Road and Nine Mile Road intersection, to include the addition of pedestrian crossing signals and controls.
- Construction of a new traffic signal at the intersection of Wixom Road and Glenwood Drive to improve traffic operations and to facilitate pedestrian crossing of Wixom Road at Deerfield Elementary School and Novi Middle School.
- Construction of a new traffic signal at the intersection of 13 Mile Road and Cabot Drive, to include pedestrian crossing signals and controls (added as Change Order No. 1).

The construction contract was awarded for this project at the April 7, 2014 City Council meeting to Rauhorn Electric, Inc., in the amount of \$342,122.06. The 13 Mile Road and Cabot Drive intersection was added later at the July 7, 2014 City Council meeting as Change Order No. 1 in the amount of \$193,753.

Engineering staff worked with the engineering consultant for this project, OHM-Advisors, to review and verify the final contract payment amount of \$32,881.82 that is due the contractor (Final Pay Estimate No. 4, attached). The City Attorney reviewed the documentation and found it to be in an acceptable form (Beth Saarela's July 9, 2015 letter, attached).

There was one approved change order issued for this project (in addition to the change order adding Cabot and 13 Mile signal) resulting in a net increase of \$57,761.77 to the construction contract, or 10.7% over the amended construction amount. The approved change orders resulted in a final contract price of \$593,636.38.

RECOMMENDED ACTION: Approval of the final payment to Rauhorn Electric, Inc. for the 2014 Traffic Signal Improvements Project in the amount of \$32,881.82.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Markham				

	1	2	Y	N
Council Member Mutch				
Council Member Poupard				
Council Member Wrobel				

Nine Mile Haggerty Intersection Improvements

Location Map



Map Author: Croy
Date: 3/31/14
Project: Nine/Haggerty
Version #: v1.0

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.



Feet

0 50 100 200 300

1 inch = 250 feet

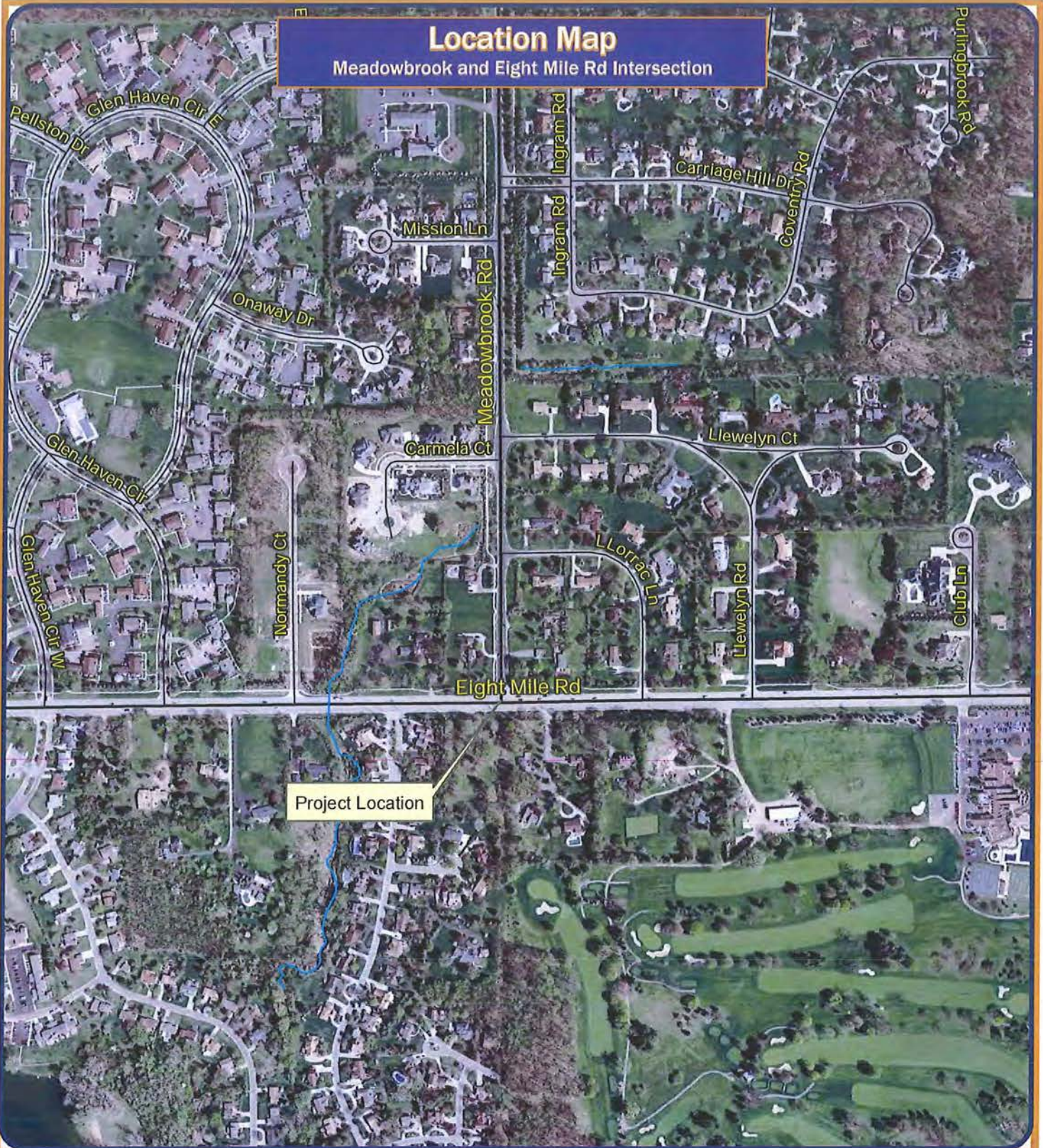


City of Novi

Engineering Division
Department of Public Services
26300 Leo BeGole Drive
Novi, MI 48375
cityofnovi.org

Location Map

Meadowbrook and Eight Mile Rd Intersection



Map Author: Brian Coburn
 Date: 5/24/13
 Project:
 Version #:

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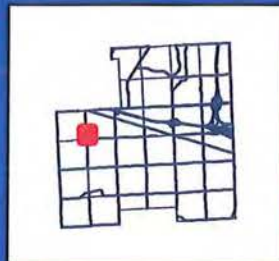
1 inch = 500 feet

Wixom Road and Glenwood Drive Signal

Location Map



Map Author: Croy
Date: 8/2/13
Project: Wixom Rd. and Glenwood Dr. Signal
Version #: v2.0



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Feet
0 50 100 200 300 400

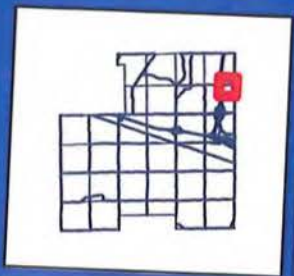
1 inch = 250 feet

13 Mile Rd. and Cabot Dr. Signal

Location Map



Map Author: M. D. McCreadie Jr
 Date: 7/29/13
 Project: 13 Mile Rd. and Cabot Dr. Signal
 Version #: 1



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 Engineering Division
 Department of Public Services
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Feet
 0 80 160 320 480 640
 1 inch = 400 feet

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JOHNSON ROSATI SCHULTZ JOPPICH PC

27555 Executive Drive Suite 250 ~ Farmington Hills, Michigan 48331

Phone: 248.489.4100 | Fax: 248.489.1726

Elizabeth Kudla Saarela
esaarela@jrsjlaw.com

www.jrsjlaw.com

July 9, 2015

Aaron Staup, Construction Engineering Coordinator
CITY OF NOVI
Department of Public Services -- Field Services Complex
26300 Lee BeGole Drive
Novi, MI 48375

**Re: 2014 Traffic Signal Improvements
Rauhorn Electric, Inc.**

Dear Mr. Staup:

We have received and reviewed closing documents for the 2014 Traffic Signal Improvements Project:

1. Application for Final Payment
2. Contractor's Sworn Statement
3. Waivers of Lien
4. Consent of Surety
5. Bond Rider - Increasing Maintenance and Guarantee Bond

Subject to approval of the Application for Final Payment by appropriate City staff, the closing documents appear to be in order. The Contractor should provide its Waiver of Lien at the time it receives final payment.

Please feel free to contact me with any questions or concerns in regard to this matter.

Very truly yours,

JOHNSON, ROSATI, SCHULTZ & JOPPICH, P.C.



Elizabeth Kudla Saarela

EKS

C: Maryanne Cornelius, Clerk
Rob Hayes, Public Services Director
Brian Coburn, Engineering Manager
Barry Gates, OHM Advisors
Thomas R. Schultz, Esquire



CITY OF NOVI

Balance Due This Payment = \$ 32,881.82

P.O. #94189

26300 Lee BeGale Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements	NOVI PROJECT NO.: 14-6001	PAYMENT NO.: FINAL
OWNER: City of Novi 45175 W. Ten Mile Road Novi, Michigan 48375	ENGINEER: OHM Advisors 34000 Plymouth Road Livonia, Michigan 48150 (734) 522-6711	CONTRACTOR: Rauhorn Electric, Inc. 17171 23 Mile Road Macomb, Michigan 48042 (586) 992-0400
CONTRACT AMOUNT	FINAL COMPLETION DATES	DATES OF ESTIMATE
ORIGINAL: \$342,122.06	ORIGINAL: October 6, 2014	FROM: April 1, 2015
REVISED: \$593,636.38	REVISED: November 5, 2014	TO: May 30, 2015
	ACTUAL: November 5, 2014	

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Division 1 - 9 Mile & Haggerty GL#204-204.00-974.439 Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
0	Constr. Inspection "Crew Day"	CD	74.00	\$ 640.00	\$ 47,360.00	74.00	\$ 640.00	\$ 47,360.00	2.00	\$ 1,280.00	3%	69.00	\$ 44,160.00	93%
1	Mobilization Max. 10%	LS	1.00	\$ 2,500.00	\$ 2,500.00	1.00	\$ 2,500.00	\$ 2,500.00				1.00	\$ 2,500.00	100%
2	Digital Video Route Survey	LS	1.00	\$ 400.00	\$ 400.00	1.00	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
3	Traffic Maintenance and Control	LS	1.00	\$ 952.00	\$ 952.00	1.00	\$ 952.00	\$ 952.00				1.00	\$ 952.00	100%
4	Mod. Blk Retain. Wall, Salv & Reset	SF	80.00	\$ 32.00	\$ 2,560.00	80.00	\$ 32.00	\$ 2,560.00				80.00	\$ 2,560.00	100%
5	Curb and Gutter, Rem.	FT	43.00	\$ 12.00	\$ 516.00	86.00	\$ 12.00	\$ 1,032.00				86.00	\$ 1,032.00	100%
6	Pavt., Rem.	SY	11.00	\$ 18.00	\$ 198.00	0.00	\$ 18.00	\$ -				0.00	\$ -	
7	Sidewalk, Rem.	SY	10.00	\$ 12.00	\$ 120.00	10.00	\$ 12.00	\$ 120.00				10.00	\$ 120.00	100%
8	Erosion Control, Inlet Protection	EA	2.00	\$ 120.00	\$ 240.00	3.00	\$ 120.00	\$ 360.00				3.00	\$ 360.00	100%
9	Erosion Control, Silt Fence	FT	20.00	\$ 5.00	\$ 100.00	0.00	\$ 5.00	\$ -				0.00	\$ -	
10	Mod. Block Retaining Wall	SF	190.00	\$ 38.00	\$ 7,220.00	251.10	\$ 38.00	\$ 9,541.80				251.10	\$ 9,541.80	100%
11	Hand Patching	TON	3.00	\$ 300.00	\$ 900.00	3.57	\$ 300.00	\$ 1,071.00				3.57	\$ 1,071.00	100%
12	Curb and Gutter, Conc., Det. F6	FT	43.00	\$ 28.00	\$ 1,204.00	86.00	\$ 28.00	\$ 2,408.00				86.00	\$ 2,408.00	100%
13	Detectable Warning Surface	FT	13.00	\$ 60.00	\$ 780.00	17.00	\$ 60.00	\$ 1,020.00				17.00	\$ 1,020.00	100%
14	Sidewalk Ramp, Conc., 6-inch	SF	153.00	\$ 6.00	\$ 918.00	121.17	\$ 6.00	\$ 727.02				121.17	\$ 727.02	100%
15	Sidewalk, Conc., 4-inch	SF	82.00	\$ 6.00	\$ 492.00	84.50	\$ 6.00	\$ 507.00				84.50	\$ 507.00	100%
16	Sidewalk, Conc., 6-inch	SF	264.00	\$ 6.00	\$ 1,584.00	323.81	\$ 6.00	\$ 1,942.86				323.81	\$ 1,942.86	100%
17	Pavt Mrkg, 6-inch, Crosswalk	FT	112.00	\$ 3.00	\$ 336.00	112.00	\$ 3.00	\$ 336.00				112.00	\$ 336.00	100%
18	Relocate Sign	EA	3.00	\$ 400.00	\$ 1,200.00	2.00	\$ 400.00	\$ 800.00				2.00	\$ 800.00	100%
19	Topsoil, Seed and Mulch, 3-inch	SY	62.00	\$ 20.00	\$ 1,240.00	188.90	\$ 20.00	\$ 3,778.00				188.90	\$ 3,778.00	100%
20	Conduit, DB, 1, 1 1/4-inch	FT	100.00	\$ 6.30	\$ 630.00	106.00	\$ 6.30	\$ 667.80				106.00	\$ 667.80	100%
21	Conduit, DB, 1, 3-inch	FT	65.00	\$ 25.30	\$ 1,644.50	103.00	\$ 25.30	\$ 2,605.90				103.00	\$ 2,605.90	100%
22	Hh, Rem.	EA	1.00	\$ 179.00	\$ 179.00	0.00	\$ 179.00	\$ -				0.00	\$ -	
23	Hh, Round	EA	2.00	\$ 941.00	\$ 1,882.00	3.00	\$ 941.00	\$ 2,823.00				3.00	\$ 2,823.00	100%
24	Wood Pole, Fit Up, TS Cable Pole	EA	1.00	\$ 423.00	\$ 423.00	1.00	\$ 423.00	\$ 423.00				1.00	\$ 423.00	100%

TOTAL THIS SHEET \$ 28,218.50 \$ 36,575.38 \$ - \$ 36,575.38 100%



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements

NOVI PROJECT NO.: 14-6001

PAYMENT NO.:

FINAL

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Division 2 - 8 Mile & Meadowbrook GL#204-204.00-863.506			CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
	Description of Item	Unit	Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%	
38	Mobilization, Max 10%	LS	1.00	\$ 10,550.00	\$ 10,550.00	1.00	\$ 10,550.00	\$ 10,550.00				1.00	\$ 10,550.00	100%	
39	Digital Video Route Survey	LS	1.00	\$ 400.00	\$ 400.00	1.00	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%	
40	Traffic Maintenance and Control	LS	1.00	\$ 1,962.00	\$ 1,962.00	1.00	\$ 1,962.00	\$ 1,962.00				1.00	\$ 1,962.00	100%	
41	Curb and Gutter, Rem	FT	52.00	\$ 12.00	\$ 624.00	60.00	\$ 12.00	\$ 720.00				60.00	\$ 720.00	100%	
42	Sidewalk, Rem	SY	37.00	\$ 12.00	\$ 444.00	82.63	\$ 12.00	\$ 991.56				82.63	\$ 991.56	100%	
43	Erosion Control, Inlet Protection	EA	2.00	\$ 120.00	\$ 240.00	2.00	\$ 120.00	\$ 240.00				2.00	\$ 240.00	100%	
44	Aggregate Base, 6-inch	SY	29.00	\$ 12.00	\$ 348.00	105.75	\$ 12.00	\$ 1,269.00				105.75	\$ 1,269.00	100%	
45	Curb, Conc, Det E4	FT	21.00	\$ 35.00	\$ 735.00	30.00	\$ 35.00	\$ 1,050.00				30.00	\$ 1,050.00	100%	
46	Curb and Gutter, Conc, Det F4	FT	52.00	\$ 28.00	\$ 1,456.00	60.00	\$ 28.00	\$ 1,680.00				60.00	\$ 1,680.00	100%	
47	Detectable Warning Surface	FT	16.00	\$ 60.00	\$ 960.00	21.80	\$ 60.00	\$ 1,308.00				21.80	\$ 1,308.00	100%	
48	Sidewalk Ramp, Conc, 6-inch	SF	62.00	\$ 6.00	\$ 372.00	337.59	\$ 6.00	\$ 2,025.54				337.59	\$ 2,025.54	100%	
49	Sidewalk, Conc, 4-inch	SF	191.00	\$ 6.00	\$ 1,146.00	318.60	\$ 6.00	\$ 1,911.60				318.60	\$ 1,911.60	100%	
50	Pavt Mrkg, 6-inch, Crosswalk	FT	133.00	\$ 3.00	\$ 399.00	136.00	\$ 3.00	\$ 408.00				136.00	\$ 408.00	100%	
51	Pavt Mrkg, 24-inch, Stop Bar	FT	37.00	\$ 12.00	\$ 444.00	37.00	\$ 12.00	\$ 444.00				37.00	\$ 444.00	100%	
52	Rem Spec Mrkg	SF	135.00	\$ 1.50	\$ 202.50	135.00	\$ 1.50	\$ 202.50				135.00	\$ 202.50	100%	
53	Cable Pole, TS, Dismantle	EA	1.00	\$ 97.55	\$ 97.55	1.00	\$ 97.55	\$ 97.55				1.00	\$ 97.55	100%	
54	Cable, Intercn, Rem	FT	1700.00	\$ 0.53	\$ 901.00	1700.00	\$ 0.53	\$ 901.00				1700.00	\$ 901.00	100%	
55	Conduit, DB, 1, 1 1/2-inch	FT	50.00	\$ 8.46	\$ 423.00	40.00	\$ 8.46	\$ 338.40				40.00	\$ 338.40	100%	
56	Conduit, DB, 1, 3-inch	FT	75.00	\$ 12.26	\$ 919.50	104.00	\$ 12.26	\$ 1,275.04				104.00	\$ 1,275.04	100%	
57	Conduit, DB, 2, 3-inch	FT	40.00	\$ 16.85	\$ 674.00	36.00	\$ 16.85	\$ 606.60				36.00	\$ 606.60	100%	
58	Conduit, DB, 3, 3-inch	FT	10.00	\$ 31.66	\$ 316.60	4.00	\$ 31.66	\$ 126.64				4.00	\$ 126.64	100%	
59	Hh, Rem	EA	2.00	\$ 179.00	\$ 358.00	2.00	\$ 179.00	\$ 358.00				2.00	\$ 358.00	100%	
60	Hh, Round	EA	4.00	\$ 941.00	\$ 3,764.00	4.00	\$ 941.00	\$ 3,764.00				4.00	\$ 3,764.00	100%	
61	Cable, Sec, 600V, 1, 3/C#6	FT	90.00	\$ 4.85	\$ 436.50	90.00	\$ 4.85	\$ 436.50				90.00	\$ 436.50	100%	
62	Wood Pole, Fit Up, Sec Cable Pole	EA	1.00	\$ 423.00	\$ 423.00	1.00	\$ 423.00	\$ 423.00				1.00	\$ 423.00	100%	
63	Case Sign, Rem	EA	1.00	\$ 105.00	\$ 105.00	1.00	\$ 105.00	\$ 105.00				1.00	\$ 105.00	100%	
64	Controller and Cabinet, Rem	EA	1.00	\$ 142.00	\$ 142.00	1.00	\$ 142.00	\$ 142.00				1.00	\$ 142.00	100%	
65	Controller and Cabinet, Digital	EA	1.00	\$ 15,315.00	\$ 15,315.00	1.00	\$ 15,315.00	\$ 15,315.00				1.00	\$ 15,315.00	100%	
TOTAL FROM THIS SHEET				\$	44,157.65	\$	49,050.93	\$	-	\$	49,050.93				
TOTAL FROM OTHER SHEETS				\$	39,434.76	\$	47,031.64	\$	-	\$	47,031.64				
SUBTOTAL				\$	83,592.41	\$	96,082.57	\$	-	\$	96,082.57			100%	



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PROJECT: 2014 Traffic Signal Improvements

NOVI PROJECT NO.: 14-6001

PAYMENT NO.: FINAL

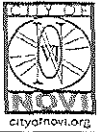
SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Division 2 - 8 Mile & Meadowbrook, Contd. GL#204-204.00-963.506 Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
66	Controller Fdn, Base Mount	EA	1.00	\$ 1,368.00	\$ 1,368.00	1.00	\$ 1,368.00	\$ 1,368.00				1.00	\$ 1,368.00	100%
67	Pedestal, Fdn	EA	2.00	\$ 1,382.00	\$ 2,764.00	2.00	\$ 1,382.00	\$ 2,764.00				2.00	\$ 2,764.00	100%
68	Pedestal, Fdn, Rem	EA	2.00	\$ 223.00	\$ 446.00	2.00	\$ 223.00	\$ 446.00				2.00	\$ 446.00	100%
69	Pedestal, Rem	EA	2.00	\$ 87.93	\$ 175.86	2.00	\$ 87.93	\$ 175.86				2.00	\$ 175.86	100%
70	Pushbutton and Sign	EA	2.00	\$ 530.00	\$ 1,060.00	2.00	\$ 530.00	\$ 1,060.00				2.00	\$ 1,060.00	100%
71	Pushbutton Pedestal, Alum	EA	2.00	\$ 385.00	\$ 770.00	2.00	\$ 385.00	\$ 770.00				2.00	\$ 770.00	100%
72	Service Disconnect	EA	1.00	\$ 923.00	\$ 923.00	1.00	\$ 923.00	\$ 923.00				1.00	\$ 923.00	100%
73	Span Wire	EA	3.00	\$ 444.00	\$ 1,332.00	3.00	\$ 444.00	\$ 1,332.00				3.00	\$ 1,332.00	100%
74	Span Wire, Rem	EA	1.00	\$ 158.00	\$ 158.00	1.00	\$ 158.00	\$ 158.00				1.00	\$ 158.00	100%
75	TS, Pedestn, Bracket Arm, Rem	EA	1.00	\$ 70.08	\$ 70.08	1.00	\$ 70.08	\$ 70.08				1.00	\$ 70.08	100%
76	TS, Pedestn, Pedestal, Mtd, Rem	EA	2.00	\$ 68.24	\$ 136.48	2.00	\$ 68.24	\$ 136.48				2.00	\$ 136.48	100%
77	TS, Span Wire, Mtd, Rem	EA	2.00	\$ 81.38	\$ 162.76	2.00	\$ 81.38	\$ 162.76				2.00	\$ 162.76	100%
78	TS, 1-Way, Span Wire, Mtd, (LED)	EA	6.00	\$ 798.00	\$ 4,788.00	6.00	\$ 798.00	\$ 4,788.00				6.00	\$ 4,788.00	100%
79	TS, 1-Way, Span Wire, FYA (LED)	EA	1.00	\$ 935.00	\$ 935.00	1.00	\$ 935.00	\$ 935.00				1.00	\$ 935.00	100%
80	TS, Pedestn, 1-Way, Cntdwn (LED)	EA	2.00	\$ 886.00	\$ 1,772.00	2.00	\$ 886.00	\$ 1,772.00				2.00	\$ 1,772.00	100%
81	TS, Pedestn, 2-Way, Cntdwn (LED)	EA	1.00	\$ 1,314.00	\$ 1,314.00	1.00	\$ 1,314.00	\$ 1,314.00				1.00	\$ 1,314.00	100%
82	Bracket, Truss w/18-foot Arm	EA	2.00	\$ 571.00	\$ 1,142.00	3.00	\$ 571.00	\$ 1,713.00				3.00	\$ 1,713.00	100%
83	Video Traffic Detection System	EA	1.00	\$ 8,341.00	\$ 8,341.00	1.00	\$ 8,341.00	\$ 8,341.00				1.00	\$ 8,341.00	100%
84	Video Traffic Detection Camera	EA	2.00	\$ 2,550.00	\$ 5,100.00	2.00	\$ 2,550.00	\$ 5,100.00				2.00	\$ 5,100.00	100%
85	Wireless Intercn, Cld-Loop, Master	EA	1.00	\$ 3,967.00	\$ 3,967.00	1.00	\$ 3,967.00	\$ 3,967.00				1.00	\$ 3,967.00	100%
86	Wireless Intercn, Cld-Loop, Remot	EA	1.00	\$ 2,700.00	\$ 2,700.00	1.00	\$ 2,700.00	\$ 2,700.00				1.00	\$ 2,700.00	100%
87	Strain Pole, Steel, 6-bolt, 30-foot	EA	4.00	\$ 4,820.00	\$ 19,280.00	4.00	\$ 4,820.00	\$ 19,280.00				4.00	\$ 19,280.00	100%
88	Strain Pole, Fdn, 6-bolt	FT	60.00	\$ 328.00	\$ 19,680.00	59.50	\$ 328.00	\$ 19,516.00				59.50	\$ 19,516.00	100%
89	Casing	FT	31.00	\$ 152.00	\$ 4,712.00	31.00	\$ 152.00	\$ 4,712.00				31.00	\$ 4,712.00	100%
90	Optical Priority Control Sys, RCOC	EA	1.00	\$ 4,616.00	\$ 4,616.00	1.00	\$ 4,616.00	\$ 4,616.00				1.00	\$ 4,616.00	100%
91	Span Wire, Box, WCDPS	EA	1.00	\$ 1,960.00	\$ 1,960.00	1.00	\$ 1,960.00	\$ 1,960.00				1.00	\$ 1,960.00	100%

TOTAL FROM THIS SHEET	\$ 89,673.18	\$ 90,080.18	\$ -	\$ 90,080.18
TOTAL FROM OTHER SHEETS	\$ 83,592.41	\$ 96,082.57	\$ -	\$ 96,082.57
SUBTOTAL	\$ 173,265.59	\$ 186,162.75	\$ -	\$ 186,162.75

100%



CITY OF NOVI

26300 Lee BeGole Dr.
 Novi, Michigan 48375
 Tel: (248) 347-0454
 Fax: (248) 735-5659

APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements NOVI PROJECT NO.: 14-6001 PAYMENT NO.: FINAL

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
92	Mobilization, Max 10%	LS	1.00	\$ 8,616.00	\$ 8,616.00	1.00	\$ 8,616.00	\$ 8,616.00				1.00	\$ 8,616.00	100%
93	Digital Video Route Survey	LS	1.00	\$ 400.00	\$ 400.00	1.00	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
94	Traffic Maintenance and Control	LS	1.00	\$ 1,962.00	\$ 1,962.00	1.00	\$ 1,962.00	\$ 1,962.00				1.00	\$ 1,962.00	100%
95	Curb and Gutter, Rem	FT	212.00	\$ 12.00	\$ 2,544.00	238.00	\$ 12.00	\$ 2,856.00				238.00	\$ 2,856.00	100%
96	Pavt, Rem	SY	176.00	\$ 18.00	\$ 3,168.00	200.80	\$ 18.00	\$ 3,614.40				200.80	\$ 3,614.40	100%
97	Sidewalk, Rem	SY	19.00	\$ 12.00	\$ 228.00	19.00	\$ 12.00	\$ 228.00				19.00	\$ 228.00	100%
98	Erosion Control, Inlet Protection	EA	2.00	\$ 120.00	\$ 240.00	2.00	\$ 120.00	\$ 240.00				2.00	\$ 240.00	100%
99	Erosion Control, Silt Fence	FT	71.00	\$ 5.00	\$ 355.00	81.00	\$ 5.00	\$ 405.00				81.00	\$ 405.00	100%
100	Aggregate Base, 6-inch	SY	257.00	\$ 12.00	\$ 3,084.00	335.60	\$ 12.00	\$ 4,027.20				335.60	\$ 4,027.20	100%
101	Hand Patching	TON	9.00	\$ 300.00	\$ 2,700.00	0.43	\$ 300.00	\$ 129.00				0.43	\$ 129.00	100%
102	Curb and Gutter, Conc, Det F4	FT	212.00	\$ 28.00	\$ 5,936.00	238.00	\$ 28.00	\$ 6,664.00				238.00	\$ 6,664.00	100%
103	Detectable Warning Surface	FT	83.00	\$ 60.00	\$ 4,980.00	74.50	\$ 60.00	\$ 4,470.00				74.50	\$ 4,470.00	100%
104	Sidewalk Ramp, Conc, 6-inch	SF	539.00	\$ 6.00	\$ 3,234.00	816.78	\$ 6.00	\$ 4,900.68				816.78	\$ 4,900.68	100%
105	Sidewalk, Conc, 4-inch	SF	1356.00	\$ 6.00	\$ 8,136.00	1161.48	\$ 6.00	\$ 6,968.88				1161.48	\$ 6,968.88	100%
106	Sign, Type III, Rem	EA	2.00	\$ 100.00	\$ 200.00	3.00	\$ 100.00	\$ 300.00				3.00	\$ 300.00	100%
107	Pavt Mrkg, 6-inch, Crosswalk	FT	471.00	\$ 3.00	\$ 1,413.00	430.00	\$ 3.00	\$ 1,290.00				430.00	\$ 1,290.00	100%
108	Pavt Mrkg, 24-inch, Stop Bar	FT	115.00	\$ 12.00	\$ 1,380.00	113.00	\$ 12.00	\$ 1,356.00				113.00	\$ 1,356.00	100%
109	Rem Spec Mrkg	SF	851.00	\$ 1.50	\$ 1,276.50	770.84	\$ 1.50	\$ 1,156.26				770.84	\$ 1,156.26	100%
110	Conduit, DB, 1, 1 1/4-Inch	FT	90.00	\$ 16.02	\$ 1,441.80	83.00	\$ 16.02	\$ 1,329.66				83.00	\$ 1,329.66	100%
111	Conduit, DB, 1, 3-inch	FT	40.00	\$ 12.26	\$ 490.40	39.00	\$ 12.26	\$ 478.14				39.00	\$ 478.14	100%
112	Conduit, DB, 2, 3-inch	FT	40.00	\$ 16.85	\$ 674.00	49.00	\$ 16.85	\$ 825.65				49.00	\$ 825.65	100%
113	Conduit, DB, 3, 4-inch	FT	10.00	\$ 89.35	\$ 893.50	5.00	\$ 89.35	\$ 446.75				5.00	\$ 446.75	100%
114	Hh, Round	EA	3.00	\$ 941.00	\$ 2,823.00	3.00	\$ 941.00	\$ 2,823.00				3.00	\$ 2,823.00	100%
115	Wood Pole, Fit Up, Cable Pole	EA	1.00	\$ 431.00	\$ 431.00	1.00	\$ 431.00	\$ 431.00				1.00	\$ 431.00	100%
116	Cbl, Sec, 600V, 1, 2/C#4, RCOC	FT	75.00	\$ 6.31	\$ 473.25	75.00	\$ 6.31	\$ 473.25				75.00	\$ 473.25	100%
117	Hh, Square, RCOC	EA	1.00	\$ 1,730.00	\$ 1,730.00	1.00	\$ 1,730.00	\$ 1,730.00				1.00	\$ 1,730.00	100%
118	Controller Fdn, Base Mount	EA	1.00	\$ 1,368.00	\$ 1,368.00	1.00	\$ 1,368.00	\$ 1,368.00				1.00	\$ 1,368.00	100%
119	Pushbutton and Sign	EA	4.00	\$ 414.00	\$ 1,656.00	4.00	\$ 414.00	\$ 1,656.00				4.00	\$ 1,656.00	100%
TOTAL FROM THIS SHEET					\$ 61,833.45	\$ 61,144.87	\$ -	\$ 61,144.87				\$ 61,144.87		
TOTAL FROM OTHER SHEETS					\$ 173,265.59	\$ 186,162.75	\$ -	\$ 186,162.75				\$ 186,162.75		
SUBTOTAL					\$ 235,099.04	\$ 247,307.62	\$ -	\$ 247,307.62				\$ 247,307.62	100%	



CITY OF NOVI

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APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements

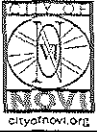
NOVI PROJECT NO.: 14-6001

PAYMENT NO.: FINAL

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Division 4 - 13 Mile & Cabot GL#204-204.00-863-508 Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
136	Mobilization, Max. 10%	LS	1.00	\$ 10,000.00	\$ 10,000.00	1.00	\$ 10,000.00	\$ 10,000.00				1.00	\$ 10,000.00	100%
137	Digital Video Route Survey	LS	1.00	\$ 400.00	\$ 400.00	1.00	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
138	Traffic Maintenance/Control	LS	1.00	\$ 1,962.00	\$ 1,962.00	1.00	\$ 1,962.00	\$ 1,962.00				1.00	\$ 1,962.00	100%
139	Curb and Gutter, Rem	FT	195.00	\$ 12.00	\$ 2,340.00	135.50	\$ 12.00	\$ 1,626.00				135.50	\$ 1,626.00	100%
140	Pavt, Rem	SY	99.00	\$ 18.00	\$ 1,782.00	89.90	\$ 18.00	\$ 1,618.20				89.90	\$ 1,618.20	100%
141	Sidewalk, Rem	SY	132.00	\$ 12.00	\$ 1,584.00	132.00	\$ 12.00	\$ 1,584.00				132.00	\$ 1,584.00	100%
142	Erosion Control, Silt Fence	FT	145.00	\$ 5.00	\$ 725.00	154.00	\$ 5.00	\$ 770.00				154.00	\$ 770.00	100%
143	Aggregate Base, 6-inch	SY	151.00	\$ 12.00	\$ 1,812.00	176.00	\$ 12.00	\$ 2,112.00				176.00	\$ 2,112.00	100%
144	Aggregate Base, 8-inch	SY	36.00	\$ 14.00	\$ 504.00	54.50	\$ 14.00	\$ 763.00				54.50	\$ 763.00	100%
145	Sprklr Head, Rem & Reset	EA	4.00	\$ 200.00	\$ 800.00	19.00	\$ 200.00	\$ 3,800.00				19.00	\$ 3,800.00	100%
146	Conc Pavt, Non-Rein, 9-inch	SY	125.00	\$ 60.00	\$ 7,500.00	128.60	\$ 60.00	\$ 7,716.00				128.60	\$ 7,716.00	100%
147	Curb & Gutter, Conc, Det F4	FT	210.00	\$ 28.00	\$ 5,880.00	199.50	\$ 28.00	\$ 5,586.00				199.50	\$ 5,586.00	100%
148	Gate Well, Adj, Add Depth	FT	1.00	\$ 200.00	\$ 200.00	0.00	\$ 200.00	\$ -				0.00	\$ -	
149	Gate Well, Cover, Adj	EA	2.00	\$ 650.00	\$ 1,300.00	2.00	\$ 650.00	\$ 1,300.00				2.00	\$ 1,300.00	100%
150	Detectable Warning Surface	FT	71.00	\$ 60.00	\$ 4,260.00	79.00	\$ 60.00	\$ 4,740.00				79.00	\$ 4,740.00	100%
151	Sidewalk Ramp, Conc, 6"	SF	488.00	\$ 6.00	\$ 2,928.00	658.00	\$ 6.00	\$ 3,948.00				658.00	\$ 3,948.00	100%
152	Sidewalk, Conc, 4-inch	SF	813.00	\$ 6.00	\$ 4,878.00	826.01	\$ 6.00	\$ 4,956.06				826.01	\$ 4,956.06	100%
153	Sign, Type III, Rem	EA	3.00	\$ 100.00	\$ 300.00	2.00	\$ 100.00	\$ 200.00				2.00	\$ 200.00	100%
154	Pavt Mrkg, C-P, 6" Crswlk	FT	543.00	\$ 3.00	\$ 1,629.00	478.00	\$ 3.00	\$ 1,434.00				478.00	\$ 1,434.00	100%
155	Pavt Mrkg, C-P, 24" Stopbar	FT	146.00	\$ 12.00	\$ 1,752.00	139.00	\$ 12.00	\$ 1,668.00				139.00	\$ 1,668.00	100%
156	Pavt Mrkg, Poly, 4" White	FT	80.00	\$ 3.00	\$ 240.00	68.00	\$ 3.00	\$ 204.00				68.00	\$ 204.00	100%
157	Rem Spec Mrkg	SF	753.00	\$ 1.50	\$ 1,129.50	682.00	\$ 1.50	\$ 1,023.00				682.00	\$ 1,023.00	100%
158	Relocate Sign	EA	1.00	\$ 400.00	\$ 400.00	1.00	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
159	Conduit, DB, 1, 1 1/4-inch	FT	75.00	\$ 13.47	\$ 1,010.25	75.00	\$ 13.47	\$ 1,010.25				75.00	\$ 1,010.25	100%
160	Conduit, DB, 1, 3-inch	FT	320.00	\$ 9.71	\$ 3,107.20	320.00	\$ 9.71	\$ 3,107.20				320.00	\$ 3,107.20	100%
161	Conduit, DB, 2, 3-inch	FT	40.00	\$ 16.85	\$ 674.00	30.50	\$ 16.85	\$ 513.93				30.50	\$ 513.93	100%
162	Conduit, DB, 3, 4-inch	FT	15.00	\$ 63.86	\$ 957.90	15.00	\$ 63.86	\$ 957.90				15.00	\$ 957.90	100%
163	Hh, Round	EA	6.00	\$ 941.00	\$ 5,646.00	6.00	\$ 941.00	\$ 5,646.00				6.00	\$ 5,646.00	100%
TOTAL FROM THIS SHEET				\$ 65,700.85	\$ 65,700.85		\$ 69,045.54	\$ 69,045.54	\$ -	\$ -		\$ 69,045.54		
TOTAL FROM OTHER SHEETS				\$ 342,122.06	\$ 342,122.06		\$ 354,330.64	\$ 354,330.64	\$ -	\$ -		\$ 354,330.64		
SUBTOTAL				\$ 407,822.91	\$ 407,822.91		\$ 423,376.18	\$ 423,376.18	\$ -	\$ -		\$ 423,376.18	100%	



CITY OF NOVI

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APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements

NOVI PROJECT NO.: 14-6001

PAYMENT NO.: FINAL

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Division 4 - 13 Mils & Cabot, Contd. GL#204-204.00-863.508 Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
164	Wood Pole, Sec Cable Pole	EA	1.00	\$ 431.00	\$ 431.00	1.00	\$ 431.00	\$ 431.00				1.00	\$ 431.00	100%
165	Conduit, DB, 1, 3-inch	FT	40.00	\$ 44.83	\$ 1,793.20	40.00	\$ 44.83	\$ 1,793.20				40.00	\$ 1,793.20	100%
166	Conduit, DB, 1, 4-inch	FT	100.00	\$ 32.65	\$ 3,265.00	100.00	\$ 32.65	\$ 3,265.00				100.00	\$ 3,265.00	100%
167	Cable, 600V, 1, 2/C#4, #6	FT	550.00	\$ 6.31	\$ 3,470.50	550.00	\$ 6.31	\$ 3,470.50				550.00	\$ 3,470.50	100%
168	Hh, Square	EA	1.00	\$ 1,730.00	\$ 1,730.00	1.00	\$ 1,730.00	\$ 1,730.00				1.00	\$ 1,730.00	100%
169	Controller Fdn, Base Mount	EA	1.00	\$ 1,368.00	\$ 1,368.00	1.00	\$ 1,368.00	\$ 1,368.00				1.00	\$ 1,368.00	100%
170	Pushbutton and Sign	EA	4.00	\$ 427.00	\$ 1,708.00	4.00	\$ 427.00	\$ 1,708.00				4.00	\$ 1,708.00	100%
171	Service Disconnect	EA	1.00	\$ 923.00	\$ 923.00	1.00	\$ 923.00	\$ 923.00				1.00	\$ 923.00	100%
172	TS, 1-way Span Wire (LED)	EA	6.00	\$ 912.00	\$ 5,472.00	6.00	\$ 912.00	\$ 5,472.00				6.00	\$ 5,472.00	100%
173	TS, 1-way Span FYA (LED)	EA	2.00	\$ 1,076.00	\$ 2,152.00	2.00	\$ 1,076.00	\$ 2,152.00				2.00	\$ 2,152.00	100%
174	TS, 1-way Span Five Sect	EA	2.00	\$ 1,371.00	\$ 2,742.00	2.00	\$ 1,371.00	\$ 2,742.00				2.00	\$ 2,742.00	100%
175	TS, Ped, 2-way Bracket Arm	EA	4.00	\$ 1,355.00	\$ 5,420.00	4.00	\$ 1,355.00	\$ 5,420.00				4.00	\$ 5,420.00	100%
176	Bottom Tether Wire	EA	1.00	\$ 1,772.00	\$ 1,772.00	1.00	\$ 1,772.00	\$ 1,772.00				1.00	\$ 1,772.00	100%
177	Bracket Arm, 18-foot	EA	4.00	\$ 539.00	\$ 2,156.00	4.00	\$ 539.00	\$ 2,156.00				4.00	\$ 2,156.00	100%
178	Case Sign, 1-way, 24"x30"	EA	2.00	\$ 1,028.00	\$ 2,056.00	2.00	\$ 1,028.00	\$ 2,056.00				2.00	\$ 2,056.00	100%
179	Controller & Cabinet, Delivrd	EA	1.00	\$ 15,695.00	\$ 15,695.00	1.00	\$ 15,695.00	\$ 15,695.00				1.00	\$ 15,695.00	100%
180	Controller & Cabinet, Install	EA	1.00	\$ 746.00	\$ 746.00	1.00	\$ 746.00	\$ 746.00				1.00	\$ 746.00	100%
181	Optical Priority Control Sys	EA	1.00	\$ 4,616.00	\$ 4,616.00	1.00	\$ 4,616.00	\$ 4,616.00				1.00	\$ 4,616.00	100%
182	Pushbutton Support Post	EA	4.00	\$ 760.00	\$ 3,040.00	4.00	\$ 760.00	\$ 3,040.00				4.00	\$ 3,040.00	100%
183	Span Wire, Box	EA	1.00	\$ 2,083.00	\$ 2,083.00	1.00	\$ 2,083.00	\$ 2,083.00				1.00	\$ 2,083.00	100%
184	Strain Pole, Steel, 40-foot	EA	4.00	\$ 4,305.00	\$ 17,220.00	4.00	\$ 4,305.00	\$ 17,220.00				4.00	\$ 17,220.00	100%
185	Strain Pole, Steel, Fdn	EA	4.00	\$ 3,404.00	\$ 13,616.00	4.00	\$ 3,404.00	\$ 13,616.00				4.00	\$ 13,616.00	100%
186	Thermal Detection Camera	EA	4.00	\$ 5,218.00	\$ 20,872.00	4.00	\$ 5,218.00	\$ 20,872.00				4.00	\$ 20,872.00	100%
187	Thermal Detection System	EA	1.00	\$ 13,705.00	\$ 13,705.00	1.00	\$ 13,705.00	\$ 13,705.00				1.00	\$ 13,705.00	100%

TOTAL FROM THIS SHEET	\$ 128,051.70	\$ 128,051.70	\$ -	\$ 128,051.70
TOTAL FROM OTHER SHEETS	\$ 407,822.91	\$ 423,376.18	\$ -	\$ 423,376.18
SUBTOTAL	\$ 535,874.61	\$ 551,427.88	\$ -	\$ 551,427.88 100%



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APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements

NOVI PROJECT NO.: 14-6001

PAYMENT NO.:

FINAL

NEW CONTRACT ITEMS

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Description of Item	Unit	Division	GL#	NEW CONTRACT ITEMS			THIS PERIOD			TOTAL TO DATE		
					Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
188	Aggretage Base 6 Inch	Syd	1	0	78.00	\$ 12.00	\$ 936.00				78.00	\$ 936.00	100%
189	Topsoil, seed and mulch, 3 inch	Syd	2	0	375.20	\$ 20.00	\$ 7,504.00				375.20	\$ 7,504.00	100%
190	Exploratory Excavation	LS	2	0	1.00	\$ 6,845.12	\$ 6,845.12				1.00	\$ 6,845.12	100%
191	Rework due to watermain conflict	LS	2	0	1.00	\$ 2,710.66	\$ 2,710.66				1.00	\$ 2,710.66	100%
192	Watermain Instalation	LS	2	0	1.00	\$ 4,095.00	\$ 4,095.00				1.00	\$ 4,095.00	100%
193	Wayne County Permit Costs	LS	2	0	1.00	\$ 4,506.51	\$ 4,506.51				1.00	\$ 4,506.51	100%
194	Topsoil, seed and mulch, 3 inch	Syd	3	0	302.10	\$ 20.00	\$ 6,042.00				302.10	\$ 6,042.00	100%
195	Sprklr, Rem & Reset	Ea	3	0	5.00	\$ 200.00	\$ 1,000.00				5.00	\$ 1,000.00	100%
196	Topsoil, seed and mulch, 3 inch	Syd	4	0	378.00	\$ 20.00	\$ 7,560.00				378.00	\$ 7,560.00	100%
197	Exploratory Excavation	LS	4	1	1.00	\$ 1,009.21	\$ 1,009.21				1.00	\$ 1,009.21	100%
198			0	0	0.00	\$ -	\$ -				0.00	\$ -	
199			0	0	0.00	\$ -	\$ -				0.00	\$ -	
200			0	0	0.00	\$ -	\$ -				0.00	\$ -	
201			0	0	0.00	\$ -	\$ -				0.00	\$ -	
202			0	0	0.00	\$ -	\$ -				0.00	\$ -	
203			0	0	0.00	\$ -	\$ -				0.00	\$ -	
204			0	0	0.00	\$ -	\$ -				0.00	\$ -	
205			0	0	0.00	\$ -	\$ -				0.00	\$ -	
206			0	0	0.00	\$ -	\$ -				0.00	\$ -	
207			0	0	0.00	\$ -	\$ -				0.00	\$ -	
208			0	0	0.00	\$ -	\$ -				0.00	\$ -	
209			0	0	0.00	\$ -	\$ -				0.00	\$ -	
210			0	0	0.00	\$ -	\$ -				0.00	\$ -	
211			0	0	0.00	\$ -	\$ -				0.00	\$ -	
212			0	0	0.00	\$ -	\$ -				0.00	\$ -	
213			0	0	0.00	\$ -	\$ -				0.00	\$ -	
214			0	0	0.00	\$ -	\$ -				0.00	\$ -	
215			0	0	0.00	\$ -	\$ -				0.00	\$ -	

TOTAL FROM THIS SHEET		\$ 42,208.50	\$ -	\$ 42,208.50
TOTAL FROM OTHER SHEETS	\$ 535,874.61	\$ 551,427.88	\$ -	\$ 551,427.88
GRAND TOTAL	\$ 535,874.61	\$ 593,636.38	\$ -	\$ 593,636.38 100%



CITY OF NOVI

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Section 3.

APPLICATION FOR FINAL PAYMENT

PROJECT: 2014 Traffic Signal Improvements NOVI PROJECT NO.: 14-6001 PAYMENT NO.: FINAL

The undersigned CONTRACTOR certifies that: (1) Any previous progress payments received from OWNER on amount of Work done under the Contract referred to above have been applied to discharge in full all obligations of CONTRACTOR incurred in connection with Work covered by prior Applications for Payment; (2) title to all Work, materials, and equipment incorporated in said Work of otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all liens, claims, security interest, and encumbrances (except such as are covered by Bond acceptable to OWNER indemnifying OWNER against any such lien, claim security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective as that term is defined in the Contract Documents.

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

CITY OF NOVI

[Handwritten signature of Aaron J. Staup]

By: Aaron J. Staup, Construction Engineering Coordinator

Dated: 7/1/15

Rauhorn Electric, Inc.
Contractor Company

Date: 06/29/15

[Handwritten signature of Ugo Mancini]
Contractor Authorized Signature

By: Ugo Mancini
Print Name

OHM Advisors
Consultant Firm

Date: 6/30/15

[Handwritten signature of Barry Gates]
Consultant Authorized Signature

By: Barry Gates
Print Name

By: Brian Coburn, PE., Engineering Manager

Dated: _____

All Full Unconditional Waivers of lien have been received from each subcontractor and/or supplier, reviewed and approved by the Consultant. Also, attached to this Final Payment is a copy of the Contractor's Sworn Statement, Consent of Surety, and a new Maintenance and Guarantee Bond (if the amount is greater than the final contract price) or a Maintenance Bond Rider covering the difference between the final contract price and the awarded amount.

Signed this 29th day of June, 2015

Name: Gloria J. Rau
(individual/corporation/partnership)

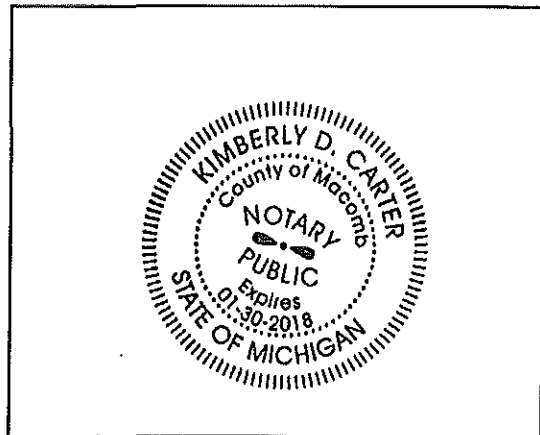
By: *Gloria J. Rau*
(Treasurer)

Attest: *Cheryl Stewart*
(Administrative Assistant)

Subscribed and sworn to before me this 29th day of June, 2015

Notary Public: *Kimberly D. Carter*

NOTARY SEAL



SCHEDULE B - CONTRACTORS SWORN STATEMENT

Name of Subcontracting Firm	Type of Labor & Material Furnished	Amount of Contract	Amount Previously Paid to Date	Amount of Current Request	Accumulative Retainage to Date	Balance Due
AA Anchor Bolt, Inc.	Material	\$8,743.90	\$8,743.90	\$0.00	0.0%	\$0.00
Carrier & Cable, Inc.	Material	\$113,919.72	\$113,919.72	\$0.00	0.0%	\$0.00
Century Cement Company	Labor & Material	\$135,074.12	\$135,074.12	\$0.00	0.0%	\$0.00
Diversified Wire & Cable, Inc.	Material	\$6,939.53	\$6,939.53	\$0.00	0.0%	\$0.00
Eagle Tubular Products, Inc.	Material	\$3,665.49	\$3,665.49	\$0.00	0.0%	\$0.00
Finishing Touch Photo & Video	Labor & Material	\$1,600.00	\$1,600.00	\$0.00	0.0%	\$0.00
McNaughton-McKay Electric Company	Material	\$1,324.65	\$1,324.65	\$0.00	0.0%	\$0.00
P.K. Contracting, Inc.	Labor & Material	\$9,426.54	\$9,426.54	\$0.00	0.0%	\$0.00
Power Line Supply	Material	\$652.02	\$652.02	\$0.00	0.0%	\$0.00
Quality Precast, Inc.	Material	\$11,692.86	\$11,692.86	\$0.00	0.0%	\$0.00
Reliable Landscaping, Inc.	Labor & Material	\$10,918.00	\$10,918.00	\$0.00	0.0%	\$0.00
Service Electric Company	Material	\$5,069.64	\$5,069.64	\$0.00	0.0%	\$0.00
Superior Materials Co.	Material	\$6,904.23	\$6,904.23	\$0.00	0.0%	\$0.00
The Boomer Company	Material	\$3,938.35	\$3,938.35	\$0.00	0.0%	\$0.00
Traffic Control Corp.	Material	\$62,626.92	\$62,626.92	\$0.00	0.0%	\$0.00
Valmont Industries	Material	\$42,147.72	\$42,147.72	\$0.00	0.0%	\$0.00
TOTALS		\$424,643.69	\$424,643.69	\$0.00		\$0.00

RECAPITULATION

Amount of Original Contract: <u> \$342,122.06 </u>	Work Completed to Date: <u> \$593,636.38 </u>
Plus: Extras to Contract: <u> \$251,514.32 </u>	Less: Total Retainage: <u> \$0.00 </u>
Total: Contract plus Extras: <u> \$593,636.38 </u>	Less: Amount Previously Paid: <u> \$563,954.56 </u>
Less: Credits to Contract: <u> </u>	Less: Amount of this Request: <u> \$32,881.82 </u>
Total: Adjusted Contract: <u> \$593,636.38 </u>	*Total Balance Due: <u> -\$3,200.00 </u>



FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

having been fully paid and satisfied, by signing this waiver, all my/our construction lien rights against such property are hereby waived and released.

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Signed on: 6/18/15

Kellie Jean Duffy
(Signature of Lien Claimant)

Kellie Jean Duffy
(Printed Name of Lien Claimant)

Office Manager
(Title of Lien Claimant)

Company Name: AA Anchor Bolt Inc

Address: 7390 Salem Rd Northville, MI 48168

Telephone: 248-349-6575

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.



cityofnovi.org

FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material for the improvement of the property
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Signed on: June 17, 2015

Lisa LaFave
(Signature of Lien Claimant)

Lisa LaFave
(Printed Name of Lien Claimant)

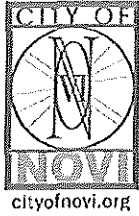
Account Manager
(Title of Lien Claimant)

Company Name: Carrier & Gable, Inc.

Address: 24110 Research Dr., Farmington Hills, MI 48335

Telephone: (248) 477-8700

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

labor and material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6-22-15

Maryse Pustow
(Signature of Lien Claimant)

Maryse Pustow
(Printed Name of Lien Claimant)

Office Manager
(Title of Lien Claimant)

Company Name: Century Cement Company

Address: 12600 Sibley Road, Riverview, MI 48193

Telephone: 734.284.8770

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material _____ for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6/18/15

Marye Louwers
(Signature of Lien Claimant)

Mary E. Louwers
(Printed Name of Lien Claimant)

Secretary
(Title of Lien Claimant)

Company Name: Diversified Wire & Cable, Inc

Address: 6250 15 Mile Rd, Sterling Heights, MI 48312

Telephone: 586.264.6500

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material _____ for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6-17-15

Tara Fiala
(Signature of Lien Claimant)

Tara Fiala
(Printed Name of Lien Claimant)

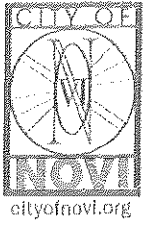
Acct Mgr
(Title of Lien Claimant)

Company Name: Eagle Tubular Products Inc

Address: 105 Chesson Ln, Aurora, IL 62002

Telephone: 618-463-1702

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.



FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

labor and material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6/17/15

C. Hurley
(Signature of Lien Claimant)

CYNTHIA HURLEY
(Printed Name of Lien Claimant)

OFFICER
(Title of Lien Claimant)

Company Name: **FINISHING TOUCH**
PHOTO & VIDEO
Address: **25095 25 MILE RD.**
CHESTERFIELD, MI 48051
Telephone: **(586) 749-3340**

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.



FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 Intersections
(Project Name)

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Signed on: 6/18/15

Virginia Parrott
(Signature of Lien Claimant)

Virginia Parrott
(Printed Name of Lien Claimant)

A/R
(Title of Lien Claimant)

Company Name: McNaughton-McKay Electric

Address: 1357 E Lincoln Madison Hts MI 48071

Telephone: 248-399-7500

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

labor and material - Pavement Markings for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6/16/15

Nicole Gray
(Signature of Lien Claimant)

Nicole Gray, Agent

(Printed Name of Lien Claimant)

(Title of Lien Claimant)

Company Name: PK Contracting

Address: 1965 Barrett Troy MI 48084

Telephone: 248-362-2130

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6-18-15 Theresa Davenport
(Signature of Lien Claimant)

Theresa Davenport
(Printed Name of Lien Claimant)

Controller
(Title of Lien Claimant)

Company Name: Power Line Supply

Address: 420 Roth Street Suite A Reed City, MI 49677

Telephone: 231-832-2297

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material _____ for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6-30-2015

Jeff Schierbeek
(Signature of Lien Claimant)

Jeff Schierbeek
(Printed Name of Lien Claimant)

President
(Title of Lien Claimant)

Company Name: Quality Precast Inc.

Address: 3815 N. Westmeade .Kal. Mi. 49004

Telephone: 269-342-0539

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

labor and material for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 Intersections
(Project Name)

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Signed on: 6/17/15 [Signature]
(Signature of Lien Claimant)

Michelle Klevering
(Printed Name of Lien Claimant)

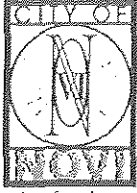
OFFICE Mgr
(Title of Lien Claimant)

Company Name: RELIABLE LANDSCAPING INC

Address: 8285 Willey, Canton MI 48187

Telephone: 734 455-3220

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)
material for the improvement of the property
(Type of service)
described as City of Novi, 2014 Traffic Signal Improvements Project - 4 Intersections
(Project Name)

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Signed on: 6/25/15

Debbie Bedore
(Signature of Lien Claimant)

DEBBIE BEDORE

(Printed Name of Lien Claimant)

CREDIT MANAGER

(Title of Lien Claimant)

Company Name: SERVICE ELECTRIC SUPPLY INC

Address: 15424 OAKWOOD DR. ROMULUS, MI 48174

Telephone: 734-229-9100

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material for the improvement of the property
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Signed on: 06/17/15

Theresa Russell
(Signature of Lien Claimant)

Theresa Russell
(Printed Name of Lien Claimant)

AGENT
(Title of Lien Claimant)

Company Name: SUPERIOR MATERIALS LLC

Address: PO BOX 4900, FARMINGTON HILLS, MI 48333

Telephone: 248-788-8000

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FULL UNCONDITIONAL WAIVER OF LIEN

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(Prime Contracting Party)

material for the improvement of the property
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Signed on: 6/22/15 [Signature]
(Signature of Lien Claimant)

John Formentw
(Printed Name of Lien Claimant)

VP
(Title of Lien Claimant)

Company Name: The Boomer Company

Address: P.O. Box 7039, DETROIT, MI 48207

Telephone: 313-832-5056

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material _____ for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
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Signed on: 6-18-2015

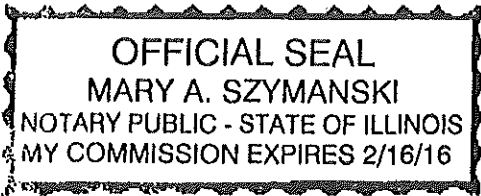
(Signature of Lien Claimant)

John LIZZADRO

(Printed Name of Lien Claimant)

PRESIDENT

(Title of Lien Claimant)



Mary A. Szymanski

Company Name: Traffic Control Corp

Address: 10435 Argonne Woods Dr. Woodridge, IL 60517

Telephone: 630-543-1300

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FULL UNCONDITIONAL WAIVER OF LIEN

My/our contract with Rauhorn Electric, Inc. to provide
(Prime Contracting Party)

material _____ for the improvement of the property
(Type of service)

described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections
(Project Name)

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Signed on: 6/18/15

[Signature]
(Signature of Lien Claimant)

[Printed Name]
(Printed Name of Lien Claimant)

ASSISTANT CREDIT MGR
(Title of Lien Claimant)

Company Name: VALMONT INDUSTRIES, INC

Address: P.O. Box 91410 Chicago, IL 60693

Telephone: 902-259-2201 Ext 3970

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AIA[®] Document G707[™] – 1994

Consent Of Surety to Final Payment

Bond No.: CA 3375596

PROJECT: *(Name and address)*
City of Novi 2014 Traffic Signal
Improvements

ARCHITECT'S PROJECT NUMBER:
CONTRACT FOR: Construction

OWNER:
ARCHITECT:
CONTRACTOR:
SURETY:
OTHER:

TO OWNER: *(Name and address)*
City of Novi
26300 Lee BeGole Drive
Novi, MI 48375

CONTRACT DATED: 4/8/2014

in accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

Great American Insurance Company
11311 Cornell Park Drive, Suite 204
Cincinnati, OH 45242

, SURETY,

on bond of
(Insert name and address of Contractor)

Rauhorn Electric, Inc.
17171 23 Mile Road
Macomb, MI 48042-4100

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the
Surety of any of its obligations to
(Insert name and address of Owner)

City of Novi
26300 Lee BeGole Drive
Novi, MI 48375

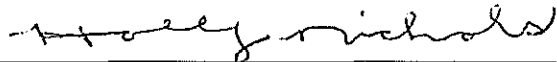
, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereto set its hand on this date: **June 19, 2015**
(Insert in writing the month followed by the numeric date and year.)

Great American Insurance Company

(Surety)

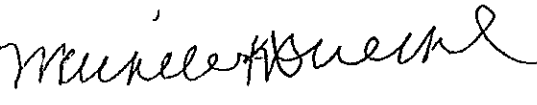


(Signature of authorized representative)

Holly Nichols, Attorney-in-Fact

(Printed name and title)

Attest:
(Seal):



GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than SEVEN

No. 0 20468

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
T.R. GUY PAUL M. HURLEY HOLLY NICHOLS ROBERT D. HEUER ANNE M. BARICK MICHAEL D. LECHNER	ALL OF TROY, MICHIGAN	ALL \$100,000,000

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 14TH day of APRIL, 2015.

Attest

GREAT AMERICAN INSURANCE COMPANY



Stephen C. Beraha
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this 14TH day of APRIL, 2015, before me personally appeared DAVID C. KITCHIN, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



JENNIFER MARIE RIPPY
Notary Public, State of Ohio
My Commission Expires
June 20, 2018

Jennifer Marie Rippy

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this 19th day of June, 2015.



Stephen C. Beraha
Assistant Secretary

RIDER

TO BE ATTACHED TO AND FORM PART OF

BOND NO. CA 3375596

IN FAVOR OF City of Novi

ON BEHALF OF Rauhorn Electric, Inc.

EFFECTIVE 17th day of April, 2014

IT IS AGREED THAT, in consideration of the original premium charged for this bond, and any additional premium that may be properly chargeable as a result of this rider.

THE SURETY, Great American Insurance hereby gives its consent to:

Increase bond penalty from Three Hundred Forty-two Thousand One Hundred Twenty-two & 06/100-----(\$342,122.06) to Five Hundred Ninety-three Thousand Six Hundred Thirty-six & 38/100-----(\$593,636.38)

EFFECTIVE: 7th day of April, 2015

PROVIDED, however that the attached bond shall be subject to all its agreements, limitations, and conditions except as herein expressly modified and that the liability of the Surety under the attached bond and under the attached bond as changes by this rider shall not be cumulative.

SIGNED, AND SEALED 7th day of April, 2015

Great American Insurance Company Surety



Holly Nichols Attorney-in-Fact

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than SEVEN

No. 0 20468

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
T.R. GUY	ALL OF	ALL
PAUL M. HURLEY	TROY, MICHIGAN	\$100,000,000
HOLLY NICHOLS		
ROBERT D. HEUER		

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 14TH day of MARCH, 2014

GREAT AMERICAN INSURANCE COMPANY



Steph C. B.
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this 14TH day of MARCH, 2014, before me personally appeared DAVID C. KITCHIN, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Shelle Clontz
Notary Public, State of Ohio
My Commission Expires 08-09-2015

Shelle Clontz

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Signed and sealed this 17th day of April, 2015.



Steph C. B.
Assistant Secretary