

### 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 370

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	\$ 640.00 Nine Mile-Haggerty
	\$ 960.00 Meadowbrook-8 Mile Signal
	\$ 1,600.00 Wixom-Glenwood Signal
	\$29,681.82 Retainage
	\$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-Haggerly)
	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.

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Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Markham				

	1	2	Υ	Ν
Council Member Mutch				
Council Member Poupard				
Council Member Wrobel				



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

#### MAP INTERPRETATION NOTICE

any official or primary source. This map was intended to never National May Accurge Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are agrounded and though on the construct as survey measurements performed by allowing Michigan Surveyor a defined in Michigan Public Act 333 of 1970 as amended. Please contact the City GIS Manager (a confirm source and accuracy information related to this proposal confirmation and the confirmation and the confirmation and the confirmation are not accuracy information related to this proposal confirmation and the confirmation and the confirmation are not accurate the confirmation and the confirmation and the confirmation and the confirmation and the confirmation are not confirmation and the confirmation and the confirmation and the confirmation are not confirmed to the confirmation and the confirmation and the confirmation and the confirmation and the confirmation are not confirmation and the confirmation and the confirmation and the confirmation and the confirmation are not confirmation and the confirmation and the confirmation are not confirmation and the confirmation and the confirmation are not confirmation and the confirmat





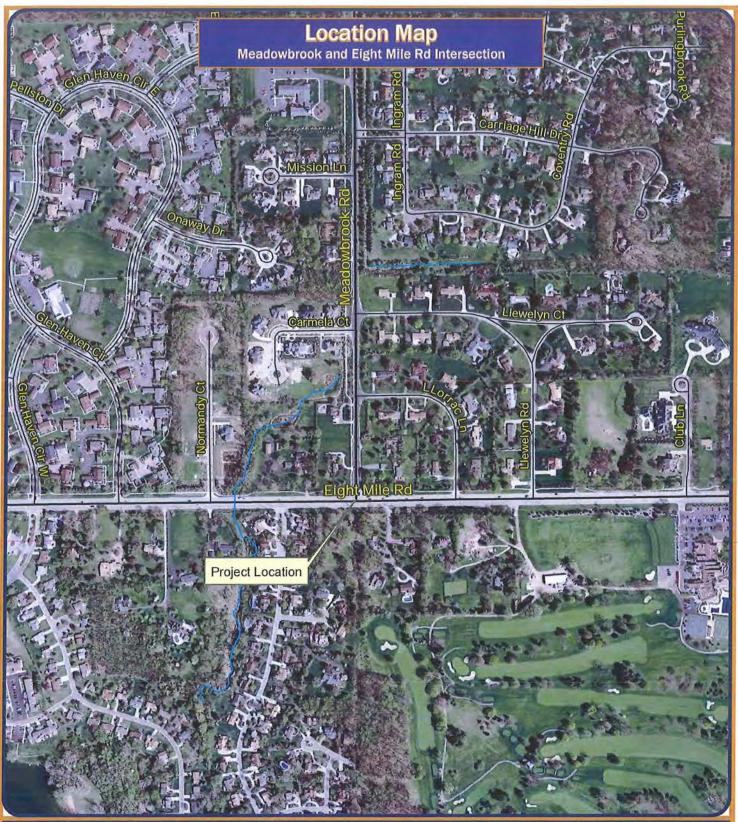
1 inch = 250 feet





## City of Novi

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



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

#### MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute to 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 defended in Michigan Harris Act 112 of 1919 as a more ded, it believes the complete of the construed as 0.1919 as a more ded, it believes the complete of the construed as 0.1919 as a property of the control of the construed of the constr





## City of Novi

Engineering Division
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1 inch = 500 fee



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

#### MAP INTERPRETATION NOTICE







## City of Novi

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

1 inch = 250 feet





#### 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, BOSATI, 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



Balance Due This Payment = 5

\$ 32,881.82

P.O. #94189

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.: CONTRACTOR: 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

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: REVISED:

ACTUAL:

October 6, 2014

November 5, 2014

FROM: TO: April 1, 2015

REVISED:

\$593,636.38

November 5, 2014

10:

May 30, 2015

SECTION 1.

#### COST OF COMPLETED WORK TO DATE

ltem:	Division 1 - 9 Mile & Haggerty GL#204-204.00-974.439	•	(	CONTI	RACT ITEMS	(Original)	(	CONTRA	ACT ITEMS	(Revised)		THIS PERIOD			TOTAL TO DATE	
No.	Description of Item	Unit	Quantity	c	ost/Unit	Total Amt	Quantity	Cas	st/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
0	Constr. Inspection "Crew Day"	CD	74.00	S	640.00	\$ 47,360.00	74,00	S	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	Eroslon 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	s -				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%



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

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PROJECT:

2014 Traffic Signal Improvements

NOVI PROJECT NO.:

14-6001

PAYMENT NO.:

	SECTION 1.								COST	OF C	OMPLETED	WORK TO	DATE						
Item	Division 1 - 9 Mile & Hangerty, Co GL#204-204.00-974.439	entd.	(	CONTRACT ITEM	S (Origin	nal)		CONTRA	ACT ITEMS	(Revise	ed)		THIS PERIOD	)			T	OTAL TO DATE	
No.	Description of Item	Unit	Quantity	Cost/Unit		Total Amt	Quantity	Co	st/Unit	1	Total Amt	Quantity	Amount		%	Quantity		Amount	<u> %</u> _
25	Pedestal, Alum	EA	2.00	\$ 564.00	) \$	1,128.00	2.00	\$	564.00	\$	1,128.00					2,00	\$	1,128.00	100%
26	Pedestal, Alum, Salvage	EA	1.00	\$ 176.00	\$	176.00	1.00	\$	176.00		176.00					1.00	\$	176.00	100%
27	Pedestal, Foundation	EA	3.00	\$ 1,382.00	\$	4,146.00	3.00	\$	1,382.00	\$	4,146.00					3.00	\$	4,146.00	100%
28	Pedestal, Fdn, Rem	EA	1,00	\$ 223.0		223.00	1.00_	\$	223.00	\$	223.00					1.00	\$	223.00	100%
29	Pedestal, Rem	EA	1.00	\$ 87.42	2 \$	87.42	1.00	\$	87.42	\$	87.42					1.00	\$	87.42	100%
30	Pushbutton and Sign	EA	2.00	\$ 596.0	) \$	1,192.00	2.00	\$	596.00	\$	1,192.00					2.00	\$_	1,192.00	100%
31	Pushbutton, Rem	EA	1.00	\$ 60.6	3 \$	60.63	1.00	\$	60.63	\$	60.63					1.00	\$	60.63	100%
32	Pushbutton and Sign, Salvage	EA	1.00	\$ 606.0	) \$	606.00	1.00	\$	606,00	\$	606,00					1.00	\$	606.00	100%
33	TS, Pedestn, Ped Mtd, Rem	EA	1.00	\$ 68.2	1 \$	68.21	1.00_	\$	68.21	\$	68,21					1.00	\$	68.21	100%
34	TS, Pedestn, 1-Way Ped, Mtd, Salv	EA	1.00	\$ 645.0	9 \$	645.00	1.00	\$	645.00	\$	645.00					1.00	\$	645.00	100%
35	TS, Pedestn, 1-Way Ped, LED	EA	2.00	\$ 996.0	) \$	1,992.00	2.00	\$	996.00	\$	1,992.00					2.00	\$	1,992.00	100%
36	Pushbutton Support Post, RCOC	EA	1.00	\$ 760.0	) \$	760.00	0.00	\$	760,00							0.00			
37	Support Post, Rem, RCOC	EA	1.00	\$ 132.0	0 \$	132.00	1.00	\$	132.00	\$	132.00					1.00	\$	132,00	100%
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	TOTAL FROM THIS SHEET	-			\$	11,216,26				\$	10,456,26		\$	-			\$	10,456.26	
	TOTAL FROM OTHER SHEET	Г			\$	28,218.50				\$	36,575.38		\$	-			\$	36,575.38	
	SUBTOTAL	_			\$	39,434.76				\$	47,031.64		\$	_			\$	47,031,64	100%



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.:

	SECTION 1.								COST	OF COMPLETED	WORK TO	DATE					
ltem	Division 2 - 8 Mile & Mendowbro GL#204-204.00-863.506	<u>ok</u>	c	ONTE	RACT ITEMS	(Original)	·	CONTRAC	T ITEMS (	Revised)		THIS PERIOD			то	TAL TO DATE	T.
No.	Description of Item	Unit	Quantity	c	ost/Unit	Total Arnt	Quantity	Cost/	/Unit	Total Arnt	Quantity	Amount	%	Quantity		Amount	%
38	Mobilization, Max 10%	LS	1.00	\$	10,550.00	\$ 10,550.00	1.00	\$ 10,5	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	\$ 4	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	\$ 1.9	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		<u></u>		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	<u> </u>		į	37.00	s	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		<u> </u>	<u> </u>	104.00	\$	1,275.04	100%
57	Conduit, DB, 2, 3-inch	FT	40.00	\$	16.85	\$ 674.00	36,00	<u></u>	16.85	\$ 606.60				36.00	\$	606.60	100%
58	Conduit, DB, 3, 3-inch	FT	10.00	\$	31.66	\$ 316.60	4.00	<u>  \$</u>	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	<u>EA</u>	4.00	\$	941.00	\$ 3,764.00	4.00	\$	941.00	\$ 3,764.00			<u> </u>	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	s	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			ļ	1.00	\$	142.00	100%
_65	Controller and Cabinet, Digital	_EA	1.00	<u>  \$</u> _	15,315.00	\$ 15,315.00	1.00	\$ 15,	,315.00	\$ 15,315.00		L	L	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%



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

	PLI								

PROJECT:

2014 Traffic Signal Improvements

NOVI PROJECT NO .:

14-6001

PAYMENT NO.:

	SECTION 1.								cos	T OF COMP	ETED	WORK TO	DATE					
Item	Qivision 2 - 3 Mile & Meadowbrook. GL#204-204.09-963.506	Contd.		CONT	RACT ITEMS	(Original)		CONT	TRACT ITEMS	(Revised)			THIS PERIOD			TC	OTAL TO DATE	
No.	Description of Item	Unit	Quantity		Cost/Unit	Total Amt	Quantity		Cost/Unit	Total Arr	t	Quantity	Amount	%	Quantity		Amount	%
66	Controller Fdn, Base Mount	ĒΑ	1.00	\$	1,368.00	\$ 1,368.00	1.00	\$	1,368.00	\$ 1,3	68,00				1.00	\$	1,368.00	100%
67	Pedestai, Fdn	EA	2.00	\$	1,382.00	\$ 2,764.00	2.00	\$	1,382.00	\$ 2,7	64,00				2.00	\$	2,764.00	100%
68	Pedestal, Fdn, Rem	<u>E</u> A	2.00	\$	223.00	\$ 446.00	2.00	\$	223.00	\$ 4	46.00				2.00	\$	446.00	100%
69	Pedestal, Rem	EA	2.00	\$	87.93	\$ 175.86	2.00	\$	87.93	s	75.86				2.00	\$	175.86	100%
70	Pushbutton and Sign	EA	2.00	\$	530.00	\$ 1,060.00	2.00	\$	530.00	\$ 1,0	60.00				2.00	\$	1,060.00	100%
71	Pushbutton Pedestal, Alum	EA	2.00	\$	385,00	\$ 770.00	2.00	\$	385.00	\$ 7	70.00				2.00	\$	770.00	100%
72_	Service Disconnect	EA	1.00	\$	923.00	\$ 923.00	1.00	\$	923.00	\$ 9	23,00				1.00	\$	923.00	100%
73	Span Wire	EA	3.00	\$	444.00	\$ 1,332.00	3.00	\$	444,00	\$ 1,3	32,00				3.00	\$	1,332.00	100%
74	Span Wire, Rem	EA	1.00	\$	158.00	\$ 158.00	1,00	\$	158.00	\$	58,00				1.00	s	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	s ·	36.48				2.00	\$	136,48	100%
	TS, Span Wire, Mtd, Rem	EA	2.00	\$	81.38	\$ 162.76	2.00	\$	81.38	\$	62.76				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	s	4,788.00	100%
79	TS, 1-Way, Span Wire, FYA (LED)	EA	1.00	\$	935.00	\$ 935.00	1,00	\$	935.00	\$ 9	35.00	<u> </u>			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,	72.00	<u></u>			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			<u> </u>	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	<u>EA</u>	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%
				<u> </u>			<u> </u>								1			
L		<u> </u>										<u> </u>	<u> </u>			<u>L.                                    </u>		
	TOTAL FROM THIS SHEET	•				\$ 89,673.1	3			\$ 90,	080.18		\$ -			\$	90,080,18	
	TOTAL FROM OTHER SHEETS	3				\$ 83,592.4				\$ 96,	082.57		\$ -			\$	96,082.57	
	SUBTOTAL					\$ 173,265.5	9			\$ 186,	162.75		\$ -			\$	186,162.75	100%



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

APPLICATION FOR FINAL PAYMENT
ECT NO.: 14-6001

PROJECT:

2014 Traffic Signal Improvements

NOVI PROJECT NO .:

PAYMENT NO.:

	SECTION 1.								COST	OF COMPLETED	WORK TO	DATE					
Item	<u> Divinion 3 - Wixom &amp; Glenwood</u> GL#204-204.00-863-504	<u>d</u>		CONT	RACT ITEMS	(Original)	C	CONTRAC	CT ITEMS	(Revised)		THIS PERIOD			Τ(	DTAL TO DATE	
No.	Description of Item	Unit	_Quantity _		ost/Unit	Total Amt	Quantity	Cost	:t/Unit	Total Amt	Quantity	Amount	%	Quantity		Amount	%
92	Mobilization, Max 10%	LS	1.00	\$	8,616.00	\$ 8,616.00	1.00	\$ 8.	3,616.00	\$ 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			İ	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	s	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	s	89.35	\$ 893.50	5.00	\$	89.35	\$ 446.75	<u> </u>		<u> </u>	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	1,730.00	\$ 1,730.00				1.00	\$	1,730.00	100%
118	Controller Fdn, Base Mount	<u>EA</u>	1.00	\$	1,368.00	\$ 1,368.00	1.00	\$ 1	1,368.00	\$ 1,368.00			<u> </u>	1.00	s	1,368.00	100%
119	Pushbutton and Sign	EA	4.00	\$	414,00	\$ 1,656.00	4.00	\$	414.00	\$ 1,656.00			L	4.00	\$	1,656.00	100%
	TOTAL FROM THIS SHEET					\$ 61,833.45				\$ 61,144.87		\$ -			\$	61,144.87	
	TOTAL FROM OTHER SHEETS	i				\$ 173,265.59				\$ 186,162.75		\$ -			\$	186,162.75	
	SUBTOTAL					\$ 235,099,04				\$ 247,307.62		\$ -			\$	247,307.62	100%



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

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PROJECT:

2014 Traffic Signal Improvements

NOVI PROJECT NO.:

14-6001

PAYMENT NO.:

	SECTION 1.								cos	OF	COMPLETED	WORK TO	DATE					
Item	Division 3 - Wixem & Glenwood, C GL#204-204.00-863.504	ontd.		CONTRACTITE	MS (Orl	iginal)		CONTI	RACT ITEMS	(Revis	ed)		THIS PERIOD			то	TAL TO DATE	W22222W
No.	Description of Item	Unit	Quantity	Cost/Unit		Total Amt	Quantity	C	Cost/Unit		Total Amt	Quantity	Amount	%	Quantity		Amount	%
120	Service Disconnect	EA	1.00	\$ 923.	00 \$	923.00	1.00	\$_	923.00	\$	923.00				1.00	\$	923.00	100%
121	TS, 1-Way, Span Wire, Mtd (LED)	EA	8,00	\$ 902.	00 \$	7,216.00	8.00	\$	902.00	\$	7,216.00				8.00	\$	7,216.00	100%
122	TS, 1-Way, Span Wire, FYA (LED)	EA	2.00	\$ 1,046.	00 \$	2,092.00	2.00_	\$	1,046.00	\$	2,092.00				2.00	\$	2,092.00	100%
123	TS, Pedestn, 2-Way Cntdwn (LED)	<u>EA</u>	4.00	\$ 1,344.	00 \$	5,376.00	4.00	\$	1,344.00	\$	5,376.00				4.00	\$	5,376.00	100%
124	Bottom Tether Wire, RCOC	ΕA	1.00	\$ 2,007.	00 \$	2,007.00	1.00	\$	2,007.00	\$	2,007.00				1.00	\$	2,007.00	100%
125	Bracket Arm, 18-foot, RCOC	EA	4.00	\$ 539.	00 \$	2,156,00	4.00	\$	539.00	\$	2,156.00				4.00	\$	2,156.00	100%
126	Case Sign, 1-Way, 24x30, RCOC	EA	2.00	\$ 0.	31 \$	0.02	2.00	\$	0,01	\$	0.02		L		2.00	\$	0.02	100%
127	Contr Cabrit, Digl, Deliv., RCOC	EΑ	1.00	\$ 15,695.	00 \$	15,695.00	1.00	\$	15,695.00	\$	15,695.00				1.00	\$	15,695.00	100%
128	Contr Cabnt, Digi, RCOC	EA	1.00	\$ 746.	00 \$	746.00	1.00	\$	746.00	\$	746.00				1.00	\$	746.00	100%
129	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%
130	Pushbutton Support Post, RCOC	<u>E</u> A	4.00	\$ 760.	00 _\$	3,040.00	4.00	\$	760.00	\$	3,040.00				4.00	\$	3,040.00	100%
131	Span Wire, Box, RCOC	<u>E</u> A	1.00	\$ 2,463.	00 \$	2,463.00	1.00	\$	2,463.00	_\$	2,463.00				1.00	\$	2,463.00	100%
132	Strain Pole, Steel, 30-Ft, RCOC	EA	4.00	\$ 3,650	00 \$	14,600,00	4.00	\$	3,650.00	\$	14,600.00				4.00	\$	14,600.00	100%
133	Strain Pole, Steel, Fdn, RCOC	EA	4.00	\$ 2,879.	00 \$	11,516.00	4.00	\$_	2,879.00	\$	11,516.00				4.00	\$	11,516.00	100%
134	Thermal Detect. Camera, RCOC	EA	4.00	\$ 5,218	00 \$	20,872.00	4.00	\$	5,218.00	\$	20,872,00				4.00	\$	20,872.00	100%
135	Thermal Detect, Sys. (MVP), RCOC	EA	1.00	\$ 13,705.	00 \$	13,705.00	1.00	\$	13,705.00	\$	13,705.00				1.00	\$	13,705.00	100%
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	TOTAL FROM THIS SHEET				\$	107,023.02				\$	107,023.02		\$ -			\$	107,023.02	
	TOTAL FROM OTHER SHEETS	:			\$	235,099.04				\$	247,307.62		\$ -			\$	247,307.62	
	SUBTOTAL	-			\$	342,122,06				\$	354,330.64		\$ -			\$	354,330.64	100%



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.:

SECTION 1.								COST OF COMPLETED WORK TO DATE												
ltem	Division 4 - 13 Mile & Cabot GL#204-204.00-863-508			CONTRACT ITEMS (Original)				CONTRACT ITEMS (Revised)				THIS PERIOD			TOTAL TO DATE					
No.	Description of Item	Unit	Quantity		Cost/Unit	Total An	mt	Quantity	C	ost/Unit		Total Amt	Quantity	Amoun	t	%	Quantity		Amount	%
136	Mobilization, Max. 10%	LS	1.00	\$	10,000.00	\$ 10,0	00.00	1.00	\$	10,000.00	\$	10,000,00					1.00	\$	10,000.00	100%
137	Digital Video Route Survey	LS	1.00	\$	400.00	\$ 4	400.00	1.00	\$	400.00	\$	400.00					1.00	\$	400.00	100%
138	Traffic Maintenance/Control	LS	1.00	\$	1,962.00	\$ 1,9	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	\$ 2,3	340,00	135,50	\$	12.00	\$	1,626,00					135.50	\$	1,626.00	100%
140	Pavt, Rem	SY	99,00	\$	18.00	\$ 1,7	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	\$ 7	725.00	154,00	\$	5.00	\$	770.00					154.00	\$	770.00	100%
143	Aggregate Base, 6-inch	SY	151.00	\$	12.00	\$ 1,8	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	Sprkir Head, Rem & Reset	EA	4.00	\$	200.00	\$ 1	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	\$ 5,8	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	s	3,948.00	100%
152	Sidewalk, Conc, 4-inch	SF	813.00	\$	6.00	\$ 4,	878.00	826.01	\$	6.00	\$	4,956.06		L			826.01	\$	4,956.06	100%
153	Sign, Type III, Rem	ΕA	3.00	\$	100.00	\$	300.00	2.00	s	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	S	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	s	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	s	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				\$	69,045.54		\$	-			\$	69,045.54	
	TOTAL FROM OTHER SHEETS					\$ 342,	,122.06				\$	354,330.64		\$	-			\$	354,330.64	
	SUBTOTAL					\$ 407,	,822.91				\$	423,376.18		\$	-			\$	423,376.18	100%



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

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APPLICATION FOR FINAL PAYMENT

PROJECT:

2014 Traffic Signal Improvements

NOVI PROJECT NO.:

14-6001

PAYMENT NO.:

	SECTION 1.		COST OF COMPLETED WORK TO DATE																
Item	Division 4 - 13 Mile & Cabot, Con GL#204-204.00-863.508	td.	C	CONTRACT ITEMS (Original)					CONTRACT ITEMS (Revised)				THIS PERIOD			TOTAL TO DATE			
No.	Description of Item	Unit	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	FI	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)	ΕA	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	EΑ	2.00	\$	1,371.00	\$	2,742.00	2,00	\$	1,371,00	\$	2,742.00		<u> </u>		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	s	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	ËA	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*	ΕA	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	\$ 1	5,695.00	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	S	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	ΕA	4.00	\$	4,305.00	\$ 1	7,220.00	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	\$ 1	3,616.00	4.00	\$	3,404,00	\$	13,616.00				4.00	\$	13,616.00	100%
186	Thermal Detection Camera	EA	4.00	\$	5,218.00	\$ 2	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	\$ 1	3,705.00	1.00	\$	13,705.00	\$	13,705.00				1.00	\$	13,705.00	100%
	<u> </u>			<u> </u>					_	·	_								
<u> </u>			<u></u>			<u> </u>			Ь.								<u> </u>	<u> </u>	
	TOTAL FROM THIS SHEET						28,051.70				\$	128,051.70		\$ -			\$	128,051.70	
TOTAL FROM OTHER SHEETS \$ 407,822.91								\$	423,376.18		\$ -			\$	423,376.18				
	SUBTOTAL					\$ 53	35,874.61				\$	551,427.88		\$ -			\$	551,427.88	100%



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

#### **NEW CONTRACT ITEMS**

SECTION 1.						COST OF COMPLETED WORK TO DATE									
140-						NEW CONTRACT ITEMS				THIS PERIOD			TOTAL TO DATE		
Item No.	Description of Item	Unit	Division	GL#		Quantity	Cost/Unit	7	Total Amt	Quantity	Amount	%	Quantity	Amount	%
188	Aggretage Base 6 inch	Syd	1	0		78.00	\$ 12.00	\$	936,00			T'	78.00	\$ 936.0	100%
189	Topsoil, seed and mulch, 3 inch	Syd	2	0		375,20	\$ 20.00	\$	7,504.00				375.20	\$ 7,504.0	100%
190	Exploratory Excavation	LS	2	0		1.00	\$ 6,845.12	\$	6,845.12				1,00	\$ 6,845.11	2 100%
191_	Rework due to watermain conflict	LS	2	0		1.00	\$ 2,710.66	\$	2,710.66				1.00	\$ 2,710.6	6 100%
192_	Watermain Instalation	LS	2	0		1.00	\$ 4,095,00	\$	4,095,00				1.00	\$ 4,095,0	0 100%
193	Wayne County Permit Costs	LS	2	0		1.00	\$ 4,506.51	\$	4,506,51				1.00	\$ 4,506.5	1 100%
194_	Topsoil, seed and mulch, 3 inch	Syd	3	0		302,10	\$ 20.00	\$	6,042.00			<u> </u>	302,10	\$ 6,042.0	100%
195	Sprkir, Rem & Reset	Ea	3	0		5.00	\$ 200.00	\$	1,000.00				5.00	\$ 1,000.0	0 100%
196_	Topsoil, seed and mulch, 3 inch	Syd	4	0	Allutter versions	378.00	\$ 20.00	\$	7,560.00				378.00	\$ 7,560.0	0 100%
197	Exploratory Excavation	ĻS	4	1		1.00	\$ 1,009.21	\$	1,009.21				1.00	\$ 1,009.2	1 100%
198			0	0		0.00	\$ <u>-</u>	\$					0.00	s	
199			0	0		0.00	s -	\$	-			ļ	0.00	s <u>-</u>	<u> </u>
200		<u> </u>	0	0		0.00	<u> </u>	\$				ļ	0.00	\$ -	
201			0	0		0,00	<u>\$</u>	\$					0.00	s <u>-</u>	
202			0	0		0.00	<u> </u>	\$					0.00	s <u>-</u>	
203			0	0		0.00	\$	\$	-				0.00	\$ -	
204			0	0		0.00	\$	\$					0.00	\$ -	
205		<u> </u>	0	0		0.00	\$ -	s					0.00	\$	
206			0	0		0.00	\$	\$					0.00	s <u>-</u>	
207			0	0		0.00	\$	\$		<u> </u>			0.00	s <u>-</u>	
208			0	0		0.00	\$	\$					0.00	\$ -	
209			0	0		0.00	\$ -	\$	_				0.00	s -	
210			0	0		0.00	\$	\$					0.00	\$ -	
211			0	0		0.00	\$	\$					0.00	s <u>-</u>	
212			0	0		0.00	\$	\$					0.00	s <u> </u> -	
213			0	0		0.00	\$ -	\$					0.00	\$	
214			0	0		0.00	\$ -	\$					0.00	\$ -	
215			0	0		0.00	\$ -	\$					0.00	\$ -	
	TOTAL FROM THIS SHEE	<del></del>						\$	42,208.50		\$ -			\$ 42,208.5	.0
	TOTAL FROM OTHER SHEET	s		\$ 53	5,874.61			\$	551,427.88		\$ -			\$ 551,427.8	8 8
	GRAND TOTA	L		\$ 53	5,874.61			\$	593,636.38		\$ -			\$ 593,636.3	8 100%



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

Section 2.							
		<b>APPLICATION</b>	FOR FINA	AL PAYMENT			
ROJECT: 2014 Traffic Signal Improvements	NOVI PROJE	ECT NO.: 14-600	11		PAYM	ENT NO.:	FINAL
Original Contract Amount:	\$	342,122.06		CHANGE O	RDERS		
Change Orders:	\$	251,514.32	<u>No.</u> 1	<u>Date</u> July 7, 2014	\$	Amount 193,752,55	5
Adjusted Contract Amount to Date:	\$	593,636.38	•	January 8, 2015	\$ \$	57,761.77	
otal Cost of Work Performed to Date:	\$	593,636.38			\$	-	
AINUS Retainage: MINUS Inspection "Crew Days": To Date	0% \$ 69.00 \$	-			\$	-	
This Pay let Amt. Earned of Contract and Extra Work to Date:	2.00	593,636.38			\$ \$	-	
# of days over = \$900	\$	-			\$ \$	-	
Subtotal:	\$	593,636.38			<u> </u>		_
ADD Incentive "Crew Days", if under:	\$	3,200.00		тот	AL: \$	251,514.32	2
Subtotal:	\$	596,836.38					
MINUS Amount of Previous Payments: 1 \$ 154,281.66	\$	563,954.56					
2 \$ 322,722.20 3 \$ 86,950.70				Inspection "Crew Days" Al Additional "Crew Days" pe			7
5 \$ - 6 \$ -				Total Inspection "Crew Da Inspection "Crew Days" U	ys" Allowed:	74.00 69.00	
7 <b>\$</b> - 8 <b>\$</b> -				Inspection "Crew Days"		5.00	
9 \$ - 10 \$ -							
BALANCE DUE THIS PAYMENT:	\$	32,881.82					



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

S	-1	lon	.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 leins, claims, security interest, and encumberences (except such as are covered by Bond acceptable to OWNER Indemnifying OWNER against any such lein, claim security interest, or encumberence); and (3) all Work covered by this Application for Payment is in accordance with	Payment is recomm	
the Contract Documents and not defective as that term is defined in the Contract Documents.	·	7/1/15
Rauhorn Electric, Inc.  Contractor Cempany  Date: D6/29/15	Dated:	77.173
Contração Authorized Signature	44.	
By: Ugo Mancini Print Name	Ву:	Brian Coburn, PE., Engineering Manager
OHM Advisors   Date: 6/30/15	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.



STATE OF MICHIGAN

#### **CONTRACTORS SWORN STATEMENT**

The general contractor must execute this Sworn Statement. Prior to execution, the general contractor shall on Schedule B of this Sworn Statement list the names of all persons, firms, or corporations engaged by the General Contractor to furnish services, equipment, labor and/or materials in connection with the work performed on the premises including the type of work materials furnished by each.

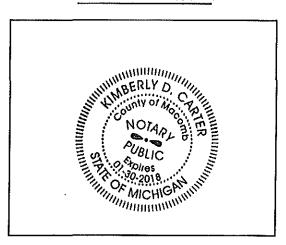
The examining attorney shall verify that every person or firm listed in Schedule B has properly executed appropriate waivers of lien prior to issuance of any final payments.

COUNTY OF MACON	1B							
-								
The undersigned, being duly sworn, on o	ath deposes and sa	ys that (s)he is the						
	of the	Rauhorn Electric, Inc.						
(Title)		(Firm Name)						
the contractor employed by the City of No	ovi to furnish labor a	nd materials for the						
2014 Traffic Signal Improvements								
	(Description of Impr	rovement)						
located at: 9 Mile & Haggerty/8 Mile & M	leadowbrook/Wixon	n&Glenwood/13 Mile&Cabot, City of Novi						
The total amount of the contract is	\$596,836.38	of which I have received payment of						
\$563,954.56 prior to this pay	nent; that the perso	ns, firms, and corporations engaged by the						
undersigned to have furnished services, e	quipment, labor and	d/or materials in the construction or repair						
of the improvements on the premises; the	it the dollar amount	set opposite each such person, firm, or						
corporation on account of labor, services, equipment, and/or materials furnished with reqpect to said								
premises; that as of this date, all work to be performed with respect to said premises by the undersigned								
or any suppliers or subcontractors of the undersigned or any persons, firms, or corporations named in								
the Schedule B of this Sworn Statement, has been fully accepted by the owner and completed according								
o the plans and specifications.								

The undersigned further states that all material (except as disclosed on said Schedule B) has been or will be furnished from his/her own stock and has been paid for in full; that there are no other contracts or subcontracts for said work outstanding, and that there is nothing due or to become due to any person for services, equipment, material, labor, or any other work done or to be done in connections with said work other than the stated on Schedule B. There are no chattel mortgages, personal property leases, conditional sale contracts or any other agreements given are now outstanding as to nay fixtures, equipment, appliances or materials placed upon or installed in or upon the aforementioned premises or improvements thereon. All waivers are true, correct, and genuine and are delivered unconditionally. Furthermore, there is no claim, either legal or equitable; to defeat the validity of said waivers.

Signed this	<u>29th</u> d	ay of		June	, 2015	
Name:			oria J. Rau orporation/pa			·
	V	iiiuiviuuavoo	uhotationiha	merampy		
	Rau reasurer)	•	Attest: _	CAA (Adm	MINISTRATIVE Assistant)	
Subscribed and swo	rn to before r	me this	29th	day of	June	, 2015
Notary Public:	Landy	ago	Carto	ソ		

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



My/our contract with Rauhorn Electric, Inc.	to provide
(Prime C	ontracting Party)
material (Type of service)	for the improvement of the property
described as City of Novi, 2014 Traffic Signal Ir	nprovements Project - 4 intersections
having been fully paid and satisfied, by sig lien rights against such property are hereby	
If the improvement is provided to property owner or lessee of the property or the own Notice of Furnishing from me/one or us or if the owner, lessee, or designee has not rece us, the owner, lessee, or designee may not r us, either in writing, by telephone, or personal	ner's or lessee's designee has received a FI/we are not required to provide one, and ived this waiver directly from me/one of ely upon it without contacting me/one of
Signed on: 6/18/15	(Signature of Lich Claimant)
Ke	(Printed Name of Lien Claimant)
<u>C</u>	(Title of Lien Claimant)
Company Name: AA ANCHO	Bout Tre
Address: 13510 SHEM Rd	Northville My 181168
Telephone: 218-349.60565	,



My/our contract with Raunorn Electric, inc.	to provide
	tracting Party)
material (Type of service)	for the improvement of the property
described as City of Novi, 2014 Traffic Signal Imp (Project	
having been fully paid and satisfied, by signi lien rights against such property are hereby wa	
If the improvement is provided to property towner or lessee of the property or the owner. Notice of Furnishing from me/one or us or if Lessee, or designee has not receive us, the owner, lessee, or designee may not relus, either in writing, by telephone, or personal.	r's or lessee's designee has received a /we are not required to provide one, and ed this waiver directly from me/one of y upon it without contacting me/one of
Signed on: June 17, 2015	(Signature of Lien Claimant)
Lisa LaFa	ave (Printed Name of Lien Claimant)
Account N	Manager (Title of Lien Claimant)
Company Name: Carrier & Gable, Inc.	
Address: 24110 Research Dr., Farmington Hills, N	MI 48335
Telephone: (248) 477-8700	



My/our contract with Rauhorn Elect	ric, Inc.	to provide
	(Prime Contracting Party)	
labor and material (Type of service)	for the improv	rement of the property
described as City of Novi, 2014 Traffic	Signal Improvements Project (Project Name)	- 4 intersections
having been fully paid and satisfie lien rights against such property are		
If the improvement is provided to owner or lessee of the property or Notice of Furnishing from me/one of the owner, lessee, or designee has us, the owner, lessee, or designee nus, either in writing, by telephone, or	the owner's or lessee's de or us or if I/we are not require not received this waiver di nay not rely upon it without	esignee has received a red to provide one, and rectly from me/one of t contacting me/one of
Signed on: 6-22-15	May Signature of Lien	Clasmant)
	MALYSC Pac (Printed Name of Lie	Atus n Claimant)
	CFRice Masses (Title of Lien C	laimant)
Company Name: Century Cement Co	mpany	
Address: 12600 Sibley Road, Rivervie	w, MI 48193	
Геlephone: <u>734.284.8770</u>		



My/our contract With Naun	(Prime Contracting Party)
material (Type of service	for the improvement of the property
described as City of Novi, 20	14 Traffic Signal Improvements Project - 4 intersections (Project Name)
	satisfied, by signing this waiver, all my/our construction erty are hereby waived and released.
owner or lessee of the prop Notice of Furnishing from n the owner, lessee, or design us, the owner, lessee, or des	ided to property that is a residential structure and if the perty or the owner's or lessee's designee has received a ne/one or us or if I/we are not required to provide one, and nee has not received this waiver directly from me/one or signee may not rely upon it without contacting me/one or ohone, or personally, to verify that it is authentic.
Signed on: 6/18/15	Marye Lowes (Signature of Lien Claimant)
	Many E. Louvers (Printed Name of Lien Claimant)
	Secretary (Title of Lien Claimant)
Company Name: Diver	51 Fled Wire & Cable, Inc le Rd. Sterling Heights, MI 48312 . 6500
Address: <u>6250 15 M</u> 1	Le Rd. Sterling Heights, NI 48312
Telephone: 586. 264	. 6500



My/our contract with Rauhorn Electron	ic, Inc.	to provide
	(Prime Contracting Party)	
material (Type of service)	for the in	mprovement of the property
described as City of Novi, 2014 Traffic	Signal improvements F (Project Name)	Project - 4 intersections
having been fully paid and satisfied lien rights against such property are		
If the improvement is provided to owner or lessee of the property or Notice of Furnishing from me/one of the owner, lessee, or designee has us, the owner, lessee, or designee in us, either in writing, by telephone, of Signed on:	the owner's or lesse r us or if I/we are not not received this wait nay not rely upon it we r personally, to verify	e's designee has received a required to provide one, and ver directly from me/one of vithout contacting me/one of
	Tara (Printed Nat	Fiala me of Lich Claimant)
	<u> acct</u>	of Lien(Glaimant)
Company Name: <u>Fagle</u> Address: <u>105 Chresse</u> Telephone: <u>108-403-17</u>	Tubular en In. Olt 102	Products Inc ton, 11-102002



My/our contract with	Rauhorn Electric, Inc.	to provide
•	(Prime Contracting Party)	•
labor and material	of service) for the	e improvement of the property
(туре	ot service)	
described as City of No	ovi, 2014 Traffic Signal Improvements (Project Name)	s Project - 4 intersections
	d and satisfied, by signing this which have and the property are hereby waived and	
owner or lessee of the Notice of Furnishing the the owner, lessee, or us, the owner, lessee,	s provided to property that is a reproperty or the owner's or less from me/one or us or if I/we are not designee has not received this wor designee may not rely upon it by telephone, or personally, to veri	see's designee has received a of required to provide one, and raiver directly from me/one of without contacting me/one of fy that it is authentic.
	(Signal Ayut	ture of Lifen Claimant)  111 A HURCEY
	(Printed	Name of Lien Claimant)
	(Til	199 (CVZ) lle of Lien Claimant)
Company Name:	PINISHING TOUCH	,
Address:	PHOTO & VIDEO 25095 25 MILE RD.	
Telephone:	CHESTERFIELD, MI 48051 (586) 749-3340	



My/our contract with Rauhorn Elec	tric, Inc.	to provide
	(Prime Contracting Party)	- <b>-</b>
material (Type of service)	for the	improvement of the property
described as City of Novi, 2014 Traffi	c Signal Improvements (Project Name)	Project - 4 intersections
having been fully paid and satisfie lien rights against such property are		
If the improvement is provided to owner or lessee of the property of Notice of Furnishing from me/one of the owner, lessee, or designee has us, the owner, lessee, or designee in us, either in writing, by telephone, or	the owner's or lesse or us or if I/we are not not received this wai may not rely upon it w	ee's designee has received a required to provide one, and iver directly from me/one o vithout contacting me/one o
Signed on: <u>6/18/15</u>	(Signatur	c of Lien Claimani)
	1/1/5/1/4 /(Printed Na	Me of Lien Claimant)
	A/R (Title	of Lien Claimant)
Company Name: Mc Naughto	n-McKay Ele	etric
Company Name: <u>McNaughto</u> Address: <u>1357 E Lincoln</u>	Madison Ht	s M1 48071
Telephone: <u>248-399-7500</u>	·····	



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

labor and material - Pavement Marking 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.
If the improvement is provided to property that is a residential structure and if the owner or lessee of the property or the owner's or lessee's designee has received a Notice of Furnishing from me/one or us or if I/we are not required to provide one, and the owner, lessee, or designee has not received this waiver directly from me/one of us, the owner, lessee, or designee may not rely upon it without contacting me/one of us, either in writing, by telephone, or personally, to verify that it is authentic.
Signed on: 6 16 15 Will Day. (Signature of Lien Claiman)
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



My/our contract with Rauhorn Electrical	ctric, Inc.		to provide	
	(Prime Contracting	Party)	•	
material (Type of service)	fo	r the improvemen	nt of the property	
described as City of Novi, 2014 Traf	fic Signal Improven (Project Name)	nents Project - 4 in	tersections	
having been fully paid and satisfilien rights against such property at	, , ,		/our construction	
If the improvement is provided to owner or lessee of the property of Notice of Furnishing from me/one the owner, lessee, or designee has us, the owner, lessee, or designee us, either in writing, by telephone,	or the owner's or or us or if I/we a s not received th may not rely upo	r lessee's designere not required to is waiver directly on it without con	ee has received a provide one, and y from me/one of tacting me/one of	
Signed on: <u>6-18-15</u>	Freusal	Joven port Signature of Lien Claima	nt)	
	Therese	a <u>Daven Oor</u> rinted Name of Lieh Clair	t <sub>mant)</sub>	
	Contro	(Title of Lien Claiman	1)	
Company Name: <u>Power L</u> Address: <u>420 Roth</u>	ine Supp	014		
Address: 420 Roth	Street	Suite A	Reed City.	MI 49677
Telephone: <u>231-832-</u>	2297			



My/our contract with Rauhorn Electr	c, Inc. to provide
•	(Prime Contracting Party)
material (Type of service)	for the improvement of the property
described as City of Novi, 2014 Traffic	Signal Improvements Project - 4 intersections (Project Name)
having been fully paid and satisfied lien rights against such property are	, by signing this waiver, all my/our construction hereby waived and released.
owner or lessee of the property or Notice of Furnishing from me/one of the owner, lessee, or designee has a us, the owner, lessee, or designee m	property that is a residential structure and if the the owner's or lessee's designee has received a rus or if I/we are not required to provide one, and not received this waiver directly from me/one of ay not rely upon it without contacting me/one of personally, to verify that it is authentic.
Signed on: <u>(6-30-2015</u>	Jeff Schulell (Signature of Lieu Claimant)
	Jeff Schircheek_ (Printed Name of Lien Claimant)
	President (Title of Lien Claimant)
Company Name:Qoo_\.'+ Address: _3815N Wo Telephone: _269 342- 05	Pricast INCsmedge Kal III: 49004



My/our contract with Rauhom Elect	ric, Inc. to provide
	(Prime Contracting Party)
labor and material (Type of service)	for the improvement of the property
(Type of Service)	
described as City of Novi, 2014 Traffi	c Signal Improvements Project - 4 Intersections (Project Name)
	(troject tame)
having been fully paid and satisfied lien rights against such property are	ed, by signing this waiver, all my/our construction hereby waived and released.
owner or lessee of the property of Notice of Furnishing from me/one the owner, lessee, or designee has us, the owner, lessee, or designee	property that is a residential structure and if the rethe owner's or lessee's designee has received a for us or if I/we are not required to provide one, and not received this waiver directly from me/one of may not rely upon it without contacting me/one of or personally, to verify that it is authentic.  (Signature of Lien Claimant)
	(Printed Name of Lien Claimant)
	OFFICE Max (Title of Lien Claimant)
Company Name: PELIABL	E LANDSCAPING INC
Address: \$285	Celley, Canton MI 48187
Telephone: 734 455-3	3220



My/our contract with Rauhorn Ele	ectric, inc.	to provide
•	(Prime Contracting Party)	
material	for the	improvement of the property
(Type of service)		
described as City of Novi, 2014 Tra	ffic Signal Improvements (Project Name)	Project - 4 intersections
having been fully paid and satisf lien rights against such property a		
If the improvement is provided to owner or lessee of the property Notice of Furnishing from me/one the owner, lessee, or designee ha us, the owner, lessee, or designee us, either in writing, by telephone	or the owner's or lesse e or us or if I/we are not as not received this wa e may not rely upon it w	ee's designee has received a t required to provide one, and iver directly from me/one of without contacting me/one of
Signed on: 6/25/15	<u> </u>	Bedre re of Lien Claimant)
	DEBBIE BEDORE (Printed No	ame of Lien Claimant)
		,
	CREDIT MANAGER	of Lien Claimant)
	(TIME	or East Claudant)
Company Name: SERVICE ELECT	RIC SUPPLY INC	
Address: 15424 OAKWOOD DR. R	OMULUS, MI_48174	
Telephone: 734-229-9100		



My/our contract with Rauhorn Ele	ectric, Inc.	to provide
•	(Prime Contracting Party	)
material (Type of service)	for th	e improvement of the property
described as City of Novi, 2014 Tra	ffic Signal Improvement (Project Name)	ts Project - 4 intersections
having been fully paid and satisf lien rights against such property a		
If the improvement is provided to owner or lessee of the property Notice of Furnishing from me/one the owner, lessee, or designee ha us, the owner, lessee, or designee us, either in writing, by telephone	or the owner's or lese or us or if I/we are not received this we may not rely upon i	ssee's designee has received a not required to provide one, and valver directly from me/one of t without contacting me/one of
Signed on: <u>06/17/15</u>	Theresa (Signal	ature of Lien Claimant)
	Therees A (Printed	Name of Lien Claimant)
	AGEN	
	(T)	itle of Lien Claimant)
Company Name: SUPERIOR MAT	ERIALS LLC	
Address: PO BOX 4900, FARMING	TON HILLS, MI 48333	
Telephone: 248-788-8000		



My/our contract with Rauhorn Electr	ic, Inc.	to provide
· .	(Prime Contracting Party)	•
material (Type of service)	for the in	nprovement of the property
described as City of Novi, 2014 Traffic	Signal Improvements P (Project Name)	roject - 4 intersections
having been fully paid and satisfied lien rights against such property are		
If the improvement is provided to owner or lessee of the property or Notice of Furnishing from me/one of the owner, lessee, or designee has us, the owner, lessee, or designee mus, either in writing, by telephone, or	the owner's or lessed r us or if I/we are not r not received this waiv ay not rely upon it wi	e's designee has received a required to provide one, and rer directly from me/one of thout contacting me/one of
Signed on: 4/27/15		of Lien Claimant)
	(Printed Nam	Formertw e of Lien Claimant)
	(Title of	Lien Claimant)
Company Name: The Boomer Compa	ny	
Address: P.O. Sox 7039	SETROIT	MI 48207
Telephone: 313-832-50		



My/our contract with Rauhorn Electric, Inc. to provide

			(Prime Contracting Par	ty)								
	material	(Type of service)	for t	he improvement of the pr	operty							
	described as City of Novi, 2014 Traffic Signal Improvements Project - 4 intersections  (Project Name)											
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	owner or lessee Notice of Furnish the owner, lesse us, the owner, le	of the property or ning from me/one of e, or designee has ssee, or designee n	the owner's or loor us or if I/we are not received this nay not rely upon	residential structure and essee's designee has recent not required to provide or waiver directly from medit without contacting medicify that it is authentic.	eived a ne, and Vone of							
	Signed on: 6	18-2015	(Sig	nature of Lieu Claimant)								
MARY NOTARY PUB	FICIAL SEAL A. SZYMANSK LIC - STATE OF ILL SION EXPIRES 2/	INOIS	(Printe	2/10/2/2/20/20 ed Name of Lien Claimant)								
Mary	J. Szy.	nanshi	, .	Pes/DeNT Title of Lien Claimant)								
0	Company Name:	Traffic 35 And	Control	Carp Jods Dr.	Twodalde							
	Telephone: 1	00-543	-1500		Ol 60517							



My/our contract with Rauhorn Electric, Inc.	to provide
(Prime Con	stracting Party)
material (Type of service)	for the improvement of the property
described as City of Novi, 2014 Traffic Signal Imp (Project	
having been fully paid and satisfied, by sign lien rights against such property are hereby w	• •
If the improvement is provided to property owner or lessee of the property or the owner. Notice of Furnishing from me/one or us or if the owner, lessee, or designee has not receivus, the owner, lessee, or designee may not re us, either in writing, by telephone, or personal	er's or lessee's designee has received a l/we are not required to provide one, and red this waiver directly from me/one of ly upon it without contacting me/one of
Signed on: 6/18/15	(Signature of Lien Claimant)
<del>\</del>	Printed Name of Lien Claimant)
	SSISTIM (2thir MAR (Title or Lien Claimant)
Company Name: VALMENT I MUT	rua, Inc 1410 atruag Il 60693
Address: $P.O.Bo \neq G$	1410 aticas, IL 60693
Telephone: 402-359-220/ Ext	3770

#### CREW DAYS - TRACKING BY DIVISION

Project: 2014 Traffic Signal Improvements

Novi Project No.: 14-6001

Contractor: Rauhorn Electric, Inc.

Engineer: OHM Advisors

									ED (By P									
NOIZIVI	DESCRIPTION	ORIGINAL	ADD/DEDUCT	CO#	REVISED	PE#1	PE#2	PE#3	PE#4	PE#5	PE#6	PE#7	PE#8	PE#9	PE#10	FINAL	TOTAL	REMAINING
1	9 Mile & Haggerty	12.00	·····	<del> </del>	12.00	1.00	11.00				<u> </u>					0.50	12.50	-0.
2	8 Mile & Meadowbrook	00.81		∔	18.00	9.00	7.00			<u> </u>	<u> </u>				<u> </u>	0.50	16.50	1,
3	Wixom & Glenwood	20.00		<b>↓</b>	20.00	8.00	9.50	0.50						ļ		0.50	18.50	1.
4	13 Mile & Cabol	24.00		ļ	24.00	11.50	8.50	1.00		<del> </del>				<u> </u>		0.50	21.50	2.
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	TOTAL	S 74.00	0.00		74.00	29.50	36.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	69.00	
Rauhorn Electric, Inc.  Contractor Company  Contractor Administration Signature  By:  Print Name  Print Name				_ Dale	: <u>06</u> /2	8y: Aaron J. Staup, Construction Engineering Coord								Coordina	tor			
OHM Advisors Consultant Firm  Consultant Authorized Signature  By: BARTH (AAS)				Date: 6/30/15				The state of the s	By:		Z A	Bric	n Cobu	m, P.E.,	Enginee	ring Mar	nager	

<sup>\*</sup> Consultant to provide an Authorization for Additional Services (AAS) form with any Pay Application, adding or deducting crew days to or from the contractor.



### Consent Of Surety to Final Payment

Bond No.: CA 3375596

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

ARCHITECT'S PROJECT NUMBER:

OWNER: 🔯

**Improvements** 

**CONTRACT FOR: Construction** 

ARCHITECT: ☑

CONTRACTOR:

SURETY: 🔯

TO OWNER: (Name and address)

CONTRACT DATED: 4/8/2014

OTHER: 🔯

City of Novi 26300 Lee BeGole Drive

Novi. Mi 48375

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 hereunto 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** 

(Signature of authorized representative)

Holly Nichols, Attorney-in-Fact

Attest: Weller & Weller & Street

(Printed name and title)

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

KNOWALLMEN 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.

MICHELLE K. BUECHEL

Limit of Power

T.R. GUY

ALL OF TROY, MICHIGAN

ALL \$100,000,000

PAUL M. HURLEY **HOLLY NICHOLS** ROBERT D. HEUER ANNE M. BARICK MICHAEL D. LECHNER

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 day of

APRIL

officers and its corporate scal hereunto affixed this Attest

GREAT AMERICAN INSURANCE COMPANY

Assistant Secretary

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 scal 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 Expines June 20, 2019

Januar Granie Bepay

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 Sentor Vice Presidents, Divisional Vice Presidents and Divisonal 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 altorney or certificate of either given for the execution of any bond, undertaking, contract of surelyship, 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 19 +h

June

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 Surely** 

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

KNOWALLMEN 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.

Address

Limit of Power

T.R. GUY

ANNE M. BARICK

ALL OF

ALL

PAUL M. HURLEY

MICHAEL D. LECHNER

TROY, MICHIGAN

\$100,000,000

**HOLLY NICHOLS** 

MICHELLE K. BUECHEL

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 day of MARCH 2014 day of

officers and its corporate seal hereunto affixed this

Attest

Assistant Secretary

GREAT AMERICAN INSURANCE COMPANY

Divisional Senior Vice Presideni

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 Clority

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 Divisonal 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

1, 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 scaled this

day of April

Assistant Secretary

