

J-4 Standard Purchasing Resolutions:

- a) **Standard Purchasing Resolution 2: Low Bidders Meeting Specifications – Street Light Maintenance**

Resolution #2016-11-199-J-4a

RESOLVED, That Troy City Council hereby **AWARDS** a contract to provide three (3) year requirements of street, parking lot, and athletic field light maintenance, with an option to renew for one (1) additional year to the low bidder meeting specifications; *Harlan Electric Company, of Rochester Hills, MI* for an estimated total cost of \$141,391.40, at unit prices contained in the bid tabulation opened November 10, 2016, a copy of which shall be **ATTACHED** to the original Minutes of this meeting with all work not to exceed budgetary limitations; contract to expire November 30, 2019.

BE IT FURTHER RESOLVED, That the award is **CONTINGENT** upon contractor's submission of properly executed bid and contract documents, including bonds, insurance certificates and all other specified requirements.

# PURCHASE/SERVICE CONTRACT

**Ship To**  
 City of Troy  
 Public Works  
 4693 ROCHESTER ROAD  
 TROY, MI 48085

**Bill To**  
 City of Troy  
 Public Works  
 4693 ROCHESTER ROAD  
 TROY, MI 48085

**No:** 2017-90000014  
**Date:** 12/06/2016

**FOB DESTINATION**

**Entered By:** MaryBeth Murz

**Vendor**  
**VENDOR NO.** 103064  
 HARLAN ELECTRIC CO  
 2695 CROOKS ROAD  
 ROCHESTER HILLS, MI 48309-3658

**CONTRACT DESCRIPTION**

Commence Date	Expiration Date	Renewal	Resolution #	Contract #	Amount
11/21/2016	11/30/2019	1 Times Annually	2016-11-199-J-4a	2017-90000014	See Below

Outdoor Light Maintenance & Repair

Furnish all labor, tools, equipment, transportation services, and traffic controls to provide three-year requirements of STREET, PARKING LOT, & ATHLETIC FIELD MAINTENANCE with an option to renew for ONE Additional Year with mutual consent of both parties within 90 days of contract termination.

UNIT PRICES are attached.

As SPECIFIED in accordance with your Bid Proposal.


Troy City Council Award Date: 11/21/2016.

Resolution #2016-11-199-J-4a.

**TERMS & CONDITIONS**

1. Purchases of Municipalities are exempt from State Sales and Federal Excise Taxes.
  2. Prior to acceptance, vendor agrees to provide City with information under the Right-to-Know Law, P.A. 1986, No. 80, and fully comply with all terms and conditions of the Michigan Occupational Safety and Health Act, MCL 408.1001, et seq. including vendor shall provide City with an "MSDS". Vendor also agrees to be responsible for all required labeling.
  3. In cases of emergency/disaster, the City can purchase up to six(6) times the order amount for a period of six(6) months at the price contained in the contract.
  4. Purchase Orders are signed electronically based upon computer generated "on-line" authorized approvals. Authentic signatures are on file in the City of Troy Purchasing Department.
- NOTICE: The City could put the vendor on notice that vendors will be held financially responsible for any claims or awards made against the City as a result of the vendor's action. If the City has to defend the initial lawsuit, the City will bring in the vendor as a co-defendant or sue the vendor, either as the result of settling a claim or the conclusion of the lawsuit.

I HEREBY CERTIFY THAT THIS ORDER IS PROPERLY AUTHORIZED AND APPROVED.



MaryBeth Murz  
 Purchasing Manager

Opening Date --11/10/16  
 Date Reviewed -- 11/11/2016

CITY OF TROY  
 PURCHASE ORDER  
 STREET LIGHTING

ITB-COT 16-39  
 Pg 1 of 4

VENDOR NAME:	Harlan Electric Company
	Rochester Hills, MI
CHECK #	#9026017555
CHECK AMOUNT	\$2,500

**PROPOSAL A: MAINTENANCE**

ITEM	DESCRIPTION	EST QTY/YEAR	UNIT PRICE	
			Labor Only	Total
1	Replace Lamp	500	\$ 23.89	\$ 11,945.00
2	Replace Ballast	75	\$ 35.83	\$ 2,687.25
3	Replace Starter	10	\$ 35.83	\$ 358.30
4	Replace Fuse	200	\$ 59.72	\$ 11,944.00
5	Replace Lens	10	\$ 23.89	\$ 238.90
6	Replace Photo Cell	50	\$ 23.89	\$ 1,194.50
7	Replace Breakers	10	\$ 59.72	\$ 597.20
8	Tighten and Lubricate	200	\$ 35.83	\$ 7,166.00
9	Remove & Replace Fixture	150	\$ 119.45	\$ 17,917.50
<b>Estimated Total Proposal A - Labor</b>			<b>\$</b>	<b>54,048.65</b>

ITEM	DESCRIPTION	EST QTY/YEAR	UNIT PRICE	
			Material Only	Total
10-A	400 WATT Lamp 1	350	\$ 12.83	\$ 4,490.50
10-B	250 WATT Lamp 1	150	\$ 12.83	\$ 1,924.50
11-A	400 WATT Ballast	60	\$ 99.11	\$ 5,946.60
11-B	250 WATT Ballast	15	\$ 99.11	\$ 1,486.65
12	Starter	10	\$ 104.94	\$ 1,049.40
13-A	5, 10, 15 AMP Fuse	100	\$ 8.61	\$ 861.00
13-B	30 amp Fuse	50	\$ 7.21	\$ 360.50
13-C	100 amp Fuse	50	\$ 52.30	\$ 2,615.00
14	Photo Cell	50	\$ 6.41	\$ 320.50
15	1 1/2" Rigid Plastic Conduit	120	\$ 1.17	\$ 140.40
16	No. 8 AWG Cable Red	160	\$ 0.31	\$ 49.60
17	No. 8 AWG Cable Black	160	\$ 0.31	\$ 49.60
18	No. 10 AWG Cable Bare	40	\$ 0.31	\$ 12.40
19	40' Wood Light Pole	1	\$ 466.40	\$ 466.40
20	40' Self-weathering Steel Pole	10	\$ 3,847.80	\$ 38,478.00
21	8' Mastarm	10	\$ 961.95	\$ 9,619.50
22	15' Mastarm	10	\$ 1,399.20	\$ 13,992.00
23	250 Watt HPS Fixture	10	\$ 274.01	\$ 2,740.10
24	400 Watt HPS Fixture	10	\$ 274.01	\$ 2,740.10
<b>Estimated Total Proposal A - Materials</b>			<b>\$</b>	<b>87,342.75</b>

<b>Estimated Grand Total Proposal A-Labor &amp; Materials</b>			<b>\$</b>	<b>141,391.40</b>
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VENDOR NAME:

Harlan Electric Company

**PROPOSAL A: MAINTENANCE (Continued)**

25	<b>Hourly labor rate per Crew</b> 100 Hrs	Regular Time	PRICE/HOUR/CREW	\$ 185.60
		Overtime Time		\$ 248.98
		Holiday Time		\$ 312.36
26	<b>Journeyman Electrician</b>	Regular Time	PRICE/HOUR/ELECTRICIAN	\$ 74.68
		Overtime Time		\$ 105.27
		Holiday Time		\$ 135.87
27	<b>Hourly rate for Backhoe</b>	Regular Time	PRICE/HOUR INCL OPERATOR	\$ 96.68
		Overtime Time		\$ 127.27
		Holiday Time		\$ 157.87
28	<b>Hourly rate for Service Truck with Crane</b>	Regular Time	PRICE/HOUR INCL OPERATOR	\$ 102.13
		Overtime Time		\$ 132.72
		Holiday Time		\$ 163.32
29	<b>Non-Contract Replacement Parts:</b> Discount + or - Parts List: Dated:  <b>OR</b> Invoices will be supplied Parts quoted are manufactured by:		+5%	
			n/a	
			n/a	
			Yes	Y or N
			n/a	

**PROPOSAL B: INSTALLATION AND REPLACEMENT**

ITEM	DESCRIPTION	EST QTY/YEAR	Lump Sum Total Price for One (1)
1	Remove existing self-weathering steel Light Pole	1 ea	\$ 465.85
2	Remove Existing wood Light Pole	1 ea	\$ 465.85
3	Remove Concrete Foundations	1 ea	\$ 955.58
4	Foundations	1 ea	\$ 895.86
5	Install 40' Light Ornamental Pole with mast arms-with one luminaire	1 ea	\$ 955.58
6	Install 40' Light Ornamental Pole with mast arms-with two	1 ea	\$ 1,254.20
7	Install 40' Light Wood Pole with mast arms-with one luminaire	1 ea	\$ 824.19
8	Install 40' Light Wood Pole with mast arms-with two luminaires	1 ea	\$ 1,051.14
9	New installation of 40' Street Light Pole with concrete foundation	1 ea	\$ 1,851.44
10	Cut & Weld Street Light Base H Base for EH-409	1 ea	\$ 330.00
<b>Estimated Total Proposal B</b>			<b>\$ 9,049.69</b>

VENDOR NAME:	Harlan Electric Company
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**PROPOSAL B: INSTALLATION AND REPLACEMENT (Continued)**

11	<b>Hourly labor rate per Crew</b>		<b>PRICE/HOUR/CREW</b>
	40 Hrs	Regular Time	\$ 185.60
		Overtime Time	\$ 248.98
		Holiday Time	\$ 312.36

12	<b>Journeyman Electrician</b>		
		Regular Time	\$ 74.68
		Overtime Time	\$ 105.27
		Holiday Time	\$ 135.87

13	<b>Hourly rate for Backhoe</b>		<b>PRICE/HOUR INCL OPERATOR</b>
		Regular Time	\$ 96.68
		Overtime Time	\$ 127.27
		Holiday Time	\$ 157.87

14	<b>Hourly rate for Service Truck with Crane</b>		<b>PRICE/HOUR INCL OPERATOR</b>
		Regular Time	\$ 102.13
		Overtime Time	\$ 132.72
		Holiday Time	\$ 163.32

15	<b>Non-Contract Replacement Parts:</b> Discount + or -		+5%
		Parts List:	n/a
		Dated:	n/a
	<b>OR</b> Invoices will be supplied	Y or N	Y
	Parts quoted are manufactured by:		n/a

VENDOR NAME:		Harlan Electric Company
CONTACT INFORMATION:	Hrs of Operation	Mon-Fri (7:00am-5:00pm)
	24-Hr Phone #	248.292.9378
REFERENCES	Y/N	Y
WORK CERTIFIED TO BE COMPLETE WITHIN THE TIME ALLOWABLE	100% of contract	X
	Proposal A	
	Proposal B	
PROPOSED PAYMENT SCHEDULE:		Billed Monthly Net 30
INSURANCE:	Can Meet	X
	Cannot Meet	
RESPONSE TIME:		48 Hrs
WARRANTY:		
EXCEPTIONS:		none
ACKNOWLEDGEMENT:	Y or N	Y



# CITY COUNCIL AGENDA ITEM

Date: November 16, 2016

To: Brian Kischnick, City Manager

From: MaryBeth Murz, Purchasing Manager *MBM*  
 Kurt Bovensiep, Public Works Director  
 Mike Pihaylic, Operations Manager Streets and Drains *MP*

Subject: Standard Purchasing Resolution 2: Low Bidders Meeting Specifications – Street Light Maintenance

### History

- The City of Troy operates and maintains 1,010 street light poles
- The street lights attached to these poles illuminate major roads and many subdivision entrance roads
- Streets lights require maintenance and repair to ensure the roads are properly illuminated
- Streets light poles can be damaged by accidents requiring its full replacement
- Street lights within City of Troy owned facilities and athletic fields are also included in this responsibility
- Historically, the City of Troy expenses 75% of the street light maintenance budget on labor and the remaining 25% on materials

### Purchasing

On November 10, 2016, a bid opening was conducted as required by City Charter and Code to provide three (3) year with requirements of street, parking lot, and athletic field light maintenance, with an option to renew for one (1) additional year. The bid was posted on the Michigan Inter-governmental Trade Network (MITN) website; [www.mitn.info](http://www.mitn.info). Two (2) bid responses were received. Below is a detailed summary of potential vendors for the bid opportunity:

<b>Companies notified via MITN</b>	90	<p><i>MITN provides a resourceful online platform to streamline the procurement process, reduce costs, and make it easier and more transparent for vendors to do business with the City of Troy.</i></p> <p><b>Active MITN</b> members with a current membership and paying annual dues receive automatic electronic notification which allows instant access to Bids, RFPS and Quote opportunities with the City.</p> <p><b>Active MITN non-paying members</b> are responsible to monitor and check the MITN website for opportunities to do business with the City.</p> <p><b>Inactive MITN member</b> status can occur when a company does not renew their account upon expiration. Inactive members cannot be notified of</p>
Troy Companies notified via MITN	5	
Troy Companies - Active email Notification	5	
Troy Companies - Active Free	0	
<b>Companies that viewed the bid</b>	10	
Troy Companies that viewed the bid	1	

After reviewing the bid responses, *Harlan Electric Company of Rochester Hills, MI* was the low bidder meeting specifications. Several factors were used determining the low bidder status including the consideration that 75% of expenditures are for labor and the remaining 25% is for materials. Additionally, it was taken into account that *Harlan Electric Company* has established a positive five (5) year experience satisfying their contract with the City of Troy. This experience factor is reflected in the bid amounts differing in the labor amounts between the bidders. Another area of concern was the non-contract material discount difference percentage with Stateline at +10% and Harlan at +5%. Not to be overlooked is the geographical proximity of Harlan Electric Company being 1 ½ miles from Troy which has proven to be a value in responding to time sensitive incident(s).



## CITY COUNCIL AGENDA ITEM

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### Recommendation

City management recommends awarding a contract to provide three (3) year requirements of street, parking lot, and athletic field light maintenance, with an option to renew for one (1) additional year to *Harlan Electric Company, of Rochester Hills, MI* for an estimated total cost of \$141,391.40, at unit prices contained in the bid tabulation with all work not to exceed budgetary limitations.



Opening Date --11/10/16  
 Date Reviewed -- 11/11/2016

CITY OF TROY  
 BID TABULATION  
 STREET LIGHTING

ITB-COT 16-39  
 Pg 1 of 4

VENDOR NAME:	Stateline Construction & Maintenance, LLC	Harlan Electric Company
	Detroit, MI	Rochester Hills, MI
CHECK #	#27234372	#9026017555
CHECK AMOUNT	\$2,500	\$2,500

**PROPOSAL A: MAINTENANCE**

ITEM	DESCRIPTION	EST QTY/YEAR	UNIT PRICE		UNIT PRICE	
			Labor Only	Total	Labor Only	Total
1	Replace Lamp	500	\$ 65.00	\$ 32,500.00	\$ 23.89	\$ 11,945.00
2	Replace Ballast	75	\$ 65.00	\$ 4,875.00	\$ 35.83	\$ 2,687.25
3	Replace Starter	10	\$ 65.00	\$ 650.00	\$ 35.83	\$ 358.30
4	Replace Fuse	200	\$ 18.75	\$ 3,750.00	\$ 59.72	\$ 11,944.00
5	Replace Lens	10	\$ 40.00	\$ 400.00	\$ 23.89	\$ 238.90
6	Replace Photo Cell	50	\$ 65.00	\$ 3,250.00	\$ 23.89	\$ 1,194.50
7	Replace Breakers	10	\$ 209.00	\$ 2,090.00	\$ 59.72	\$ 597.20
8	Tighten and Lubricate	200	\$ 75.00	\$ 15,000.00	\$ 35.83	\$ 7,166.00
9	Remove & Replace Fixture	150	\$ 130.00	\$ 19,500.00	\$ 119.45	\$ 17,917.50
<b>Estimated Total Proposal A - Labor</b>			<b>\$</b>	<b>82,015.00</b>	<b>\$</b>	<b>54,048.65</b>

ITEM	DESCRIPTION	EST QTY/YEAR	UNIT PRICE		UNIT PRICE	
			Material Only	Total	Material Only	Total
10-A	400 WATT Lamp 1	350	\$ 12.92	\$ 4,522.00	\$ 12.83	\$ 4,490.50
10-B	250 WATT Lamp 1	150	\$ 12.92	\$ 1,938.00	\$ 12.83	\$ 1,924.50
11-A	400 WATT Ballast	60	\$ 86.90	\$ 5,214.00	\$ 99.11	\$ 5,946.60
11-B	250 WATT Ballast	15	\$ 79.20	\$ 1,188.00	\$ 99.11	\$ 1,486.65
12	Starter	10	\$ 14.57	\$ 145.70	\$ 104.94	\$ 1,049.40
13-A	5, 10, 15 AMP Fuse	100	\$ 8.09	\$ 809.00	\$ 8.61	\$ 861.00
13-B	30 amp Fuse	50	\$ 6.00	\$ 300.00	\$ 7.21	\$ 360.50
13-C	100 amp Fuse	50	\$ 21.28	\$ 1,064.00	\$ 52.30	\$ 2,615.00
14	Photo Cell	50	\$ 11.55	\$ 577.50	\$ 6.41	\$ 320.50
15	1 1/2" Rigid Plastic Conduit	120	\$ 0.55	\$ 66.00	\$ 1.17	\$ 140.40
16	No. 8 AWG Cable Red	160	\$ 0.26	\$ 41.60	\$ 0.31	\$ 49.60
17	No. 8 AWG Cable Black	160	\$ 0.26	\$ 41.60	\$ 0.31	\$ 49.60
18	No. 10 AWG Cable Bare	40	\$ 0.22	\$ 8.80	\$ 0.31	\$ 12.40
19	40' Wood Light Pole	1	\$ 750.00	\$ 750.00	\$ 466.40	\$ 466.40
20	40' Self-weathering Steel Pole	10	\$ 2,200.00	\$ 22,000.00	\$ 3,847.80	\$ 38,478.00
21	8' Mastarm	10	\$ 200.00	\$ 2,000.00	\$ 961.95	\$ 9,619.50
22	15' Mastarm	10	\$ 275.00	\$ 2,750.00	\$ 1,399.20	\$ 13,992.00
23	250 Watt HPS Fixture	10	\$ 175.00	\$ 1,750.00	\$ 274.01	\$ 2,740.10
24	400 Watt HPS Fixture	10	\$ 200.00	\$ 2,000.00	\$ 274.01	\$ 2,740.10
<b>Estimated Total Proposal A - Materials</b>			<b>\$</b>	<b>47,166.20</b>	<b>\$</b>	<b>87,342.75</b>

<b>Estimated Grand Total Proposal A-Labor &amp; Materials</b>			<b>\$</b>	<b>129,181.20</b>	<b>\$</b>	<b>141,391.40</b>
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CITY OF TROY  
 BID TABULATION  
 STREET LIGHTING

VENDOR NAME:

Stateline Construction &  
 Maintenance, LLC

Harlan Electric Company

**PROPOSAL A: MAINTENANCE (Continued)**

25	<b>Hourly labor rate per Crew</b> 100 Hrs	Regular Time	PRICE/HOUR/CREW	PRICE/HOUR/CREW
		Overtime Time	\$ 197.00	\$ 185.60
		Holiday Time	\$ 249.98	\$ 248.98
			\$ 320.48	\$ 312.36
26	<b>Journeyman Electrician</b>	Regular Time	PRICE/HOUR/ELECTRICIAN	PRICE/HOUR/ELECTRICIAN
		Overtime Time	\$ 90.55	\$ 74.68
		Holiday Time	\$ 130.07	\$ 105.27
			\$ 175.35	\$ 135.87
27	<b>Hourly rate for Backhoe</b>	Regular Time	PRICE/HOUR INCL OPERATOR	PRICE/HOUR INCL OPERATOR
		Overtime Time	\$ 136.00	\$ 96.68
		Holiday Time	\$ 175.52	\$ 127.27
			\$ 220.80	\$ 157.87
28	<b>Hourly rate for Service Truck with Crane</b>	Regular Time	PRICE/HOUR INCL OPERATOR	PRICE/HOUR INCL OPERATOR
		Overtime Time	\$ 136.00	\$ 102.13
		Holiday Time	\$ 175.52	\$ 132.72
			\$ 220.80	\$ 163.32
29	<b>Non-Contract Replacement Parts:</b> Discount + or - Parts List: Dated:  <b>OR</b> Invoices will be supplied Y or N Parts quoted are manufactured by:		+10%	+5%
			n/a	n/a
			n/a	n/a
			Y	Yes
			TBD	n/a

**PROPOSAL B: INSTALLATION AND REPLACEMENT**

ITEM	DESCRIPTION	EST QTY/YEAR	Lump Sum Total Price for One (1)	Lump Sum Total Price for One (1)
1	Remove existing self-weathering steel Light Pole	1 ea	\$ 538.00	\$ 465.85
2	Remove Existing wood Light Pole	1 ea	\$ 575.00	\$ 465.85
3	Remove Concrete Foundations	1 ea	\$ 475.00	\$ 955.58
4	Foundations	1 ea	\$ 538.65	\$ 895.86
5	Install 40' Light Ornamental Pole with mast arms-with one luminaire	1 ea	\$ 554.00	\$ 955.58
6	Install 40' Light Ornamental Pole with mast arms-with two	1 ea	\$ 684.00	\$ 1,254.20
7	Install 40' Light Wood Pole with mast arms-with one luminaire	1 ea	\$ 626.00	\$ 824.19
8	Install 40' Light Wood Pole with mast arms-with two luminaires	1 ea	\$ 756.00	\$ 1,051.14
9	New installation of 40' Street Light Pole with concrete foundation	1 ea	\$ 1,092.65	\$ 1,851.44
10	Cut & Weld Street Light Base H Base for EH-409	1 ea	\$ 195.00	\$ 330.00
<b>Estimated Total Proposal B</b>			<b>\$ 6,034.30</b>	<b>\$ 9,049.69</b>

VENDOR NAME:	Stateline Construction & Maintenance, LLC	Harlan Electric Company
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**PROPOSAL B: INSTALLATION AND REPLACEMENT (Continued)**

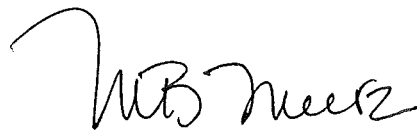
11	<b>Hourly labor rate per Crew</b>	<b>PRICE/HOUR/CREW</b>	<b>PRICE/HOUR/CREW</b>
	40 Hrs Regular Time	\$ 197.00	\$ 185.60
	Overtime Time	\$ 249.98	\$ 248.98
	Holiday Time	\$ 320.48	\$ 312.36
12	<b>Journeyman Electrician</b>	<b>PRICE/HOUR/ELECTRICIAN</b>	
	Regular Time	\$ 90.55	\$ 74.68
	Overtime Time	\$ 130.77	\$ 105.27
	Holiday Time	\$ 175.35	\$ 135.87
13	<b>Hourly rate for Backhoe</b>	<b>PRICE/HOUR INCL OPERATOR</b>	<b>PRICE/HOUR INCL OPERATOR</b>
	Regular Time	\$ 136.00	\$ 96.68
	Overtime Time	\$ 175.52	\$ 127.27
	Holiday Time	\$ 220.80	\$ 157.87
14	<b>Hourly rate for Service Truck with Crane</b>	<b>PRICE/HOUR INCL OPERATOR</b>	<b>PRICE/HOUR INCL OPERATOR</b>
	Regular Time	\$ 136.00	\$ 102.13
	Overtime Time	\$ 175.52	\$ 132.72
	Holiday Time	\$ 220.80	\$ 163.32
15	<b>Non-Contract Replacement Parts: Discount + or -</b>	<b>+10%</b>	<b>+5%</b>
	Parts List:	n/a	n/a
	Dated:	n/a	n/a
<b>OR</b>	Invoices will be supplied	Y	Y
	Parts quoted are manufactured by:	Various	n/a

Y or N

CITY OF TROY  
 BID TABULATION  
 STREET LIGHTING

VENDOR NAME:		Stateline Construction & Maintenance, LLC	Harlan Electric Company
CONTACT INFORMATION:	Hrs of Operation	Mon-Fri (7:30am-5:00pm)	Mon-Fri (7:00am-5:00pm)
	24-Hr Phone #	313.909.7509	248.292.9378
REFERENCES	Y/N	Y	Y
WORK CERTIFIED TO BE COMPLETE WITHIN THE TIME ALLOWABLE	100% of contract	X	X
	Proposal A		
	Proposal B		
PROPOSED PAYMENT SCHEDULE:		Monthly	Billed Monthly Net 30
INSURANCE:	Can Meet	X	X
	Cannot Meet		
RESPONSE TIME:		48 Hrs	48 Hrs
WARRANTY:		As Specified	
EXCEPTIONS:		Yes	none
ACKNOWLEDGEMENT:	Y or N	Y	Y

ATTEST:  
 Enna Bachelor  
 Susan Riesterer  
 Kurt Bovensiep  
 Mike Pihaylic

  
 MaryBeth Murz,  
 Purchasing Manager



**CITY OF TROY  
BID PROPOSAL**

**ITB-COT 16-39**  
Page 1 of 10

The undersigned proposes to **FURNISH ALL LABOR, TOOLS, EQUIPMENT, TRANSPORTATION SERVICES, AND TRAFFIC CONTROLS TO PROVIDE THREE-YEAR REQUIREMENTS OF STREET, PARKING LOT, AND ATHLETIC FIELD LIGHT MAINTENANCE WITH AN OPTION TO RENEW FOR ONE ADDITIONAL YEAR** in accordance with the attached specifications and diagrams to be considered an integral part of this proposal, at the following prices:

COMPANY NAME: The Harlan Electric Co.

**SECTION LIST**

Instruction to Bidders (2 pages)	Contract Documents/ Forms (8 pages)
Bid Proposal (10 pages)	Public Act 57 (2 pages)
Proposal A Specifications (2 pages)	Certification Statement (1 page)
Proposal B Specifications (2 pages)	Sample Insurance Certificate (3 pages)
General Conditions (2 pages)	Statement of No Bid (1 page)
Electrical General Provisions (3 pages)	
Electrical Basic Materials (2 pages)	

**PROPOSAL A: MAINTENANCE**

ITEM	ESTIMATED QTY/YEAR	DESCRIPTION	UNIT PRICE (LABOR ONLY)	TOTAL
1.	500 Each	Replace Lamp	\$ <u>23.89</u>	\$ <u>11,945.00</u>
2.	75 Each	Replace Ballast	\$ <u>35.83</u>	\$ <u>2,687.25</u>
3.	10 Each	Replace Starter	\$ <u>35.83</u>	\$ <u>358.30</u>
4.	200 Each	Replace Fuse (Per pole/per electric box***)	\$ <u>59.72</u>	\$ <u>11,944.00</u>
5.	10 Each	Replace Lens	\$ <u>23.89</u>	\$ <u>238.90</u>
6.	50 Each	Replace Photo Cell	\$ <u>23.89</u>	\$ <u>1,194.50</u>
7.	10 Each	Replace Breakers	\$ <u>59.72</u>	\$ <u>597.20</u>
8.	200 Each	Tighten & Lubricate anchor bolts Horizontal Refractors, Glass washing, lamp replacement (Per pole double or single lamp)	\$ <u>35.83</u>	\$ <u>7,166.00</u>
9.	150 Each	Remove & Replace Fixture	\$ <u>119.45</u>	\$ <u>17,917.50</u>
<b>ESTIMATED TOTAL PROPOSAL A - LABOR:</b>				\$ <u>54,048.65</u>

**NOTE:** \* Travel time and determination of cause of outage To Be Included in Unit Price bid  
 \*\*Traffic control To Be Included in Unit Price bid  
 \*\*\* See specifications, Page 1, "WORK TO BE DONE UNDER THIS CONTACT: Item 4. Fuse

**ADDITIONAL ITEMS, IF REQUIRED:**

25. **Hourly labor rate per crew**  
 (Crew includes 1 journeyman electrician,  
 1 instrument technician and service truck)  
 (Estimated number of hours -100 -)
- |                  |                           |
|------------------|---------------------------|
|                  | <b>PRICE/ HOUR / CREW</b> |
| 1 - Regular Time | \$ <u>185.60</u>          |
| 1 - Overtime     | \$ <u>248.98</u>          |
| 1 - Holiday Time | \$ <u>312.36</u>          |
26. **Journeyman Electrician**
- |                  |                                   |
|------------------|-----------------------------------|
|                  | <b>PRICE / HOUR / ELECTRICIAN</b> |
| 1 - Regular Time | \$ <u>74.68</u>                   |
| 1 - Overtime     | \$ <u>105.27</u>                  |
| 1 - Holiday Time | \$ <u>135.87</u>                  |
27. **Hourly rate for backhoe**
- |                  |  |
|------------------|--|
|                  | <b>PRICE / HOUR INCLUDING OPERATOR</b> |
| 1 - Regular Time | \$ <u>96.68</u>                        |
| 1 - Overtime     | \$ <u>127.27</u>                       |
| 1 - Holiday Time | \$ <u>157.87</u>                       |
28. **Hourly rate for Service Truck with crane**
- |                  |  |
|------------------|--|
|                  | <b>PRICE / HOUR INCLUDING OPERATOR</b> |
| 1 - Regular Time | \$ <u>102.13</u>                       |
| 1 - Overtime     | \$ <u>132.72</u>                       |
| 1 - Holiday Time | \$ <u>163.32</u>                       |
29. **NON-CONTRACT REPLACEMENT PARTS:**  
 Discount (markup or mark down) on parts not listed above + 5 % or - X %  
 Parts list: N/A Dated: N/A will be used. A published  
 company-pricing sheet will be accepted.  
 OR Invoiced Price: () Yes, Invoices will be supplied  
 Parts quoted are manufactured by: N/A

**PROPOSAL B: INSTALLATION AND REPLACEMENT**

Item	Estimated Annual Qty	Description	Lump Sum Total Price for One(1)
1.	1 Each	Remove existing self-weathering steel Light Pole	\$ <u>465.85</u>
2.	1 Each	Remove existing wood Light Pole	\$ <u>465.85</u>
3.	1 Each	Remove Concrete Foundations	\$ <u>955.58</u>
4.	1 Each	Installation of Concrete foundations	\$ <u>895.86</u>
5.	1 Each	Install 40' Light Ornamental Pole with mast arms - With One Luminaire	\$ <u>955.58</u>
6..	1 Each	Install 40' Light Ornamental Pole with mast arms - With Two Luminaries	\$ <u>1,254.20</u>
7.	1 Each	Install 40' Light wood Pole with mast arms - With One Luminaire	\$ <u>824.19</u>
8.	1 Each	Install 40' Light wood Pole with mast arms - With Two Luminaries	\$ <u>1,051.14</u>
9.	1 Each	New installation of 40' Street Light Pole with concrete foundation	\$ <u>1,851.44</u>
	1 Each	Cut & weld Street Light Base H Base for EH-409	\$ <u>330.00</u>

**NOTE:** \* Travel time and Traffic Control To Be Included in Total Price bid

**ESTIMATED TOTAL PROPOSAL B -** \$ 9,049.69

COMPANY NAME: The Harlan Electric Co.

**UNIT PRICES:** Unit prices prevail. The City of Troy Purchasing Department will correct all extension errors

All items of work noted in the Specifications that are not specifically noted in the proposals shall be considered as included in any maintenance and installation project contained herein, and provided at no extra cost to the City.

**IMPORTANT:** Employees performing various specified work must be licensed to perform that work in conformance with applicable laws governing such work.

**APPROVED ALTERNATES:** The City of Troy's designated department representatives or his/her designee will review all items submitted for consideration as approved alternates. Their decision as to acceptability will be deemed in the City of Troy's best interest and will be final.

**INFORMATION:** For additional general information or questions about the specifications, please contact **Kurt Bovensiepe**, Public Works Director at (248) 524-3489 between the hours of 8:00 am to 4:00 pm, Monday through Friday or email at k.bovensiepe@troymi.gov.

**CONTACT INFORMATION:** Hours of operation: 7:00 - 5:00 24 Hr. Contact Phone No. 248.292.9378

**ESTIMATED QUANTITIES:**

The quantities as shown on the proposal are based on annual usage from prior years and will be used for award purposes only. The actual work may vary from the proposal. The contractor will be paid only for the work he/she does, which may be more or less than the quantities shown on the proposal.

**DEFINITION OF HOURLY TIME CHARGES:** Regular time charges are defined as any time between the hours of 8:00 AM and 5:00 PM, Monday through Friday with the exception of the following Holidays: New Years, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas Eve, and Christmas Day. Overtime will be defined as any other time not specified above.

**DOWNPAYMENTS AND PREPAYMENTS:** Any proposal submitted which requires a down payment or prepayment for services prior to performance and acceptance, as being in conformance with specifications will not be considered for award.

**REFERENCES:**

The City of Troy requires that your company list at least three (3) clients who have recently had similar work performed by your company. Please, print.

COMPANY: City of Troy  
ADDRESS: \_\_\_\_\_ CITY: Troy ZIP: \_\_\_\_\_  
TELEPHONE: 248.524.3401 CONTACT: Mike Sackner  
EMAIL: \_\_\_\_\_

COMPANY: D.T.E.  
ADDRESS: \_\_\_\_\_ CITY: DTE Service Area ZIP: \_\_\_\_\_  
TELEPHONE: 734.397.4316 CONTACT: Chris Hartley  
EMAIL: HartleyC@DTEEnergy.com

COMPANY: City of Southfield  
ADDRESS: \_\_\_\_\_ CITY: Southfield ZIP: \_\_\_\_\_  
TELEPHONE: 248.796.4833 CONTACT: David P. Wawrzyniak  
EMAIL: \_\_\_\_\_

**NOTE:** The City of Troy, at their discretion, may require the bidder(s) to supply a Financial Report from an impartial Financial Credit Reporting Service before the award of contract.

COMPANY NAME: The Harlan Electric Co.

**MICHIGAN CONSTRUCTION LIEN ACT:** The bidder agrees that, if awarded the Contract(s) and if required, he/she will abide by all requirements of the Michigan Construction Lien Act (P.A. 1980, No. 497) as amended and effective March 1, 1982, and to provide full and complete Sworn Statements on Owner-approved forms.

**PUBLIC ACT 57:** Public Act 57 requires contractors to provide certain notices to governmental entities concerning improvements on real property; to allow for modifications of contracts for improvement of real property; to provide for remedies; and to repeal acts and parts of acts. This contract shall comply with all applicable provisions of Public Act 57 [a copy of the act is attached for reference (2 pages)].

**BID DEPOSIT AND FORFEITURE:** The bid deposit of the lowest bidder(s) shall be forfeit if, after bid opening, a change in the bid price or other provision of the bid is required by the bidder that is prejudicial to the interest of the City of Troy or fair competition.

**BOND SUBMITTAL:** Subsequently, upon notice of award to the successful bidder(s), if required the Contractor shall qualify for, sign, and deliver to the City of Troy an executed Performance Bond, an executed Labor and Materials Payment Bond, and an executed three-year Maintenance Bond secured by a surety company, acceptable to the City of Troy by being licensed to do business in Michigan, and be included on the U. S. Treasury Department Surety List and/or have a rating of A (-) or better by A. M. Best, and/or Standard and Poors, on standard AIA forms, each in the amount of one hundred percent (100%) of the contract sum. Attorneys-in-fact who sign such bonds must attach a certified copy of their Power of Attorney when the bonds are submitted. The Contractor shall pay the cost of all bond premiums.

**PROGRESS PAYMENTS:** The City of Troy will consider a progress payment schedule for work as completed in accordance with specifications. The Streets Superintendent or Project Construction Manager will have final approval of the schedule as presented. No payments for work will be made until the designated City representative approves the work as complete in accordance with specifications. If required and prior to release of the final payment, the consent of surety document (A1A Document G707) will be signed by the surety Company. The City of Troy reserves the right to reject the payment schedule if deemed necessary, and determine the final schedule.

Proposed Payment Schedule: Unit Prices and T&E hourly rates to be billed monthly - Net 30 payment

*(Please submit an attachment identified as \_\_\_\_\_ if more space is necessary.)*

**CONTRACT FORMS:** Bidders shall complete the Legal Status of bidder and Non-Collusion forms and return with your bid proposal. All other forms will be completed after award.

**PURCHASE ORDER:** After the Troy City Council has approved the award, the City of Troy Purchasing Department will send an award letter to the successful bidder(s). The successful bidder(s) once notified, shall submit any required bonds as specified. A purchase order will be issued in approximately one-week and released, once acceptable bonds and insurance are received. The purchase order issued in conjunction with the Contract Form (provided in the Contract Documents Section) from the City of Troy will create a bilateral contract between the parties, and the successful bidder(s) shall commit to perform the contract in accordance with specifications.

**DELIVERY:** All materials are to be F.O.B. delivered, freight paid, to the various work sites within the City of Troy.

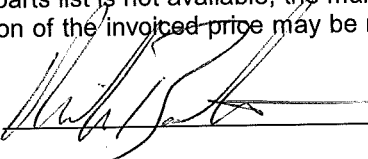
COMPANY NAME: The Harlan Electric Co.



**SIGNATURE PAGE**

**PRICES:** Prices shall remain firm for 60 days or bid award, whichever comes first; except for the successful bidder(s) whose prices shall remain firm for the entire contract period, which shall commence December 1, 2016, or the bid award date whichever is later and expire November 30, 2019. The contract may be renewed for one (1) additional year based upon mutual consent of both parties within 90 days of contract termination based upon the same prices, terms, and conditions. The renewal is subject to a favorable market survey and City Council approval. A request by City staff to determine a successful bidder's interest in renewing a contract in no way obligates the City. The option cannot be exercised without Troy City Council approval and a blanket purchase order issued.

The only exception to firm prices shall be for parts needed which are not listed individually in the bid documents, but supported by the manufacturer's **current published** price list and firm discount or markup quoted. Or, if a company's computer generated price list is used, the price list submitted with the bid document will be firm for the entire year of the contract. In each contract year, a company's computer generated price list may be updated on or after the anniversary date (one time per contract year). Parts lists will be required to be on file in the offices of the City of Troy. If a parts list is not available, the manufacturer's invoiced price with a markup or markdown will be used. Verification of the invoiced price may be required by the City of Troy at the City of Troy's discretion

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE:** 

**NOTE:** The undersigned has checked carefully the bid figures and understands that he/she shall be responsible for any error or omission in this bid offer and is in receipt of all addenda as issued.

TAX ID: 38 - 06 27 506

COMPANY: The Harlan Electric Co.

ADDRESS: 2695 Crooks Rd CITY: Rochester Hills STATE: MI ZIP: 48309

TELEPHONE: ( 248 ) 853 - 4601 FAX NUMBER: ( 248 ) 853-4603

REPRESENTATIVE'S NAME: Michael Bastian

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE:**  (PRINT)

CHECK INCLUDED: YES WARRANTY: AS SPECIFIED

RESPONSE TIME: 48 HRS EMAIL: MBastian@MYRGroup.com

**EXCEPTIONS:** Any exceptions, substitutions, deviations, etc., from the City specifications and this proposal must be stated below. The reason(s) for the exceptions, substitutions, or deviations are an integral part of this bid offer:

\_\_\_\_\_  
\_\_\_\_\_

**ACKNOWLEDGEMENT:**  
I, Michael Bastian, certify that I have read the **Instructions to Bidders** (2 Pages) and that the bid proposal documents contained herein were obtained directly from the City's Purchasing Department or MITN website, [www.mitn.info](http://www.mitn.info) and is an official copy of the Authorized Version.

**SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE:** 



**PROPOSAL (A) SPECIFICATIONS  
STREET, PARKING LOT, AND ATHLETIC FIELD  
LIGHT MAINTENANCE  
CITY OF TROY**

The contract will be between the City of Troy, hereinafter called Troy, and the successful bidder, hereinafter called the contractor, to perform Street, Parking Lot, and Athletic Field Light Maintenance during the period of three years from date of award or December 1, 2016, whichever is later, with an option to renew the contract for one additional year based upon mutual consent of both parties within 90 days of contract termination.

**WORK TO BE DONE UNDER THIS CONTRACT:**

**Items:**

No separate cost for **CALL OUT, DETERMINATION OF CAUSE OF OUTAGE, TRAFFIC CONTROL AND TRAVEL TIME.** Cost should be included in items bid.

The City of Troy will notify the contractor when there is an outage for minimum of three (3) systems. The contractor will be expected to respond to the call and determine the cause of the outage within 48 hours (excluding Saturdays, Sundays, and Holidays) and within (3) three hours in case of emergency. If the contractor cannot respond within the 48 hours, he must contact the City at the time of notification.

If the outage is caused by an item of work in the contract, the contractor will proceed with the work. If the outage is caused by something other than contract items, or by underground cable, the contractor must notify the City of the cause and receive approval before proceeding. These items will be paid for by the hourly rates described in the bid proposal. The contractor will report the start time and the finish time to the inspector for the hourly rate.

**LAMP:**

Defective lamps shall be replaced with the proper lamp. It will be furnished by the contractor

**BALLAST:**

Defective ballasts shall be replaced with the proper ballast. It will be furnished by the contractor

**STARTER:**

Defective starters shall be replaced with the proper starter. It will be furnished by the contractor

**FUSE:**

Defective fuses shall be replaced with the proper fuses, the pay item #4 "Replace Fuse" (per pole or per electric box\*) payments will be made per pole or per electric box, not for each fuse replaced in the pole or electric box. The contractor will furnish fuses.

**LENS:**

Defective lens shall be replaced with the proper lens. It will be furnished by the City of Troy.

**PHOTOCELL:**

Defective photocells shall be replaced with proper photocells. It will be furnished by the contractor.

**BREAKERS:**

Defective breakers shall be replaced with proper breakers. It will be furnished by the contractor.



**PROPOSAL (B) SPECIFICATIONS**  
**STREET, PARKING LOT, AND ATHLETIC FIELD**  
**STREET LIGHTS INSTALLATION/REPLACEMENT**  
**CITY OF TROY**

The contract will be between the City of Troy, party of the first part, hereinafter called Troy and the successful bidder, party of the second part and hereinafter called the contractor to remove & replace street light poles during the period of three years from date of award or December 1, 2016, whichever is later, with an option to renew for one additional year.

**REMOVE STREET LIGHT POLE 40' WITH MAST ARM & LUMINAIRE:**

Poles (Ornamental Or Wood) shall be removed with the mast arm and luminaries. Poles, Arms and luminaries shall be taken apart and dropped off at Department of Public Works at 4693 Rochester Rd. When required.

**REMOVE CONCRETE FOUNDATIONS:**

Remove concrete foundation shall be payment in full for furnishing all labor and materials for removal and disposal of the concrete foundations.

**INSTALLS CONCRETE FOUNDATIONS:**

Concrete foundations will be measured as a unit. The contract unit price shall be payment in full for constructing the light standard concrete foundation as shown on the detail. The excavation work, furnishing and installing conduit bends, anchor, and bolts, including sod, granular material backfill and disposal of waste excavated materials is also included in the item and will not be paid for separately.

The concrete used in the construction of the foundations shall be Michigan Department of State Highways and Transportation Grade 35-S with a minimum design compressive strength at 28 days of 3500 PSI.

Adequate protection of the concrete during cold weather construction will be required; method of protection will be determined by the Engineer or designated City representative.

**Anchor Bolts:** All anchor bolts and associated nuts, studs and couplings shall conform to the requirements of the current specifications for low - carbon steel externally and internally threaded fasteners, ASTM Designation: A-307 or approved alternate. All anchor bolts for a length not less than eight inches (8") from the requirements of the current specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware, ASTM Designation A-153.

Nuts shall be re tapped 0.02" oversize after galvanizing.

The contractor shall call Miss Dig 48 hours prior to any digging or excavation.

**INSTALL LIGHTING STANDARD ORNAMENTAL POLE:**

The contractor has to replace the pole the same day of the removal if he did not have to replace the concrete foundation. The item will include putting up the light pole with the arm and the fixture and any wire or hardware necessary. The City of Troy will supply the poles, arms and fixtures.

Leave one (2) inch space between bottom of the lighting standard and the top of the Concrete foundations for drainage and ventilation.

**INSTALL LIGHTING STANDARD WOOD POLE:**

The contractor has to replace the pole the same day of the removal and is responsible to provide the pole.

**CUT & WELD STREET LIGHT BASE:**

A Certified Welder shall cut and remove damaged pole & weld new base to the salvaged pole .The contractor has to follow the manufacturer's replacement instruction specifications.



## GENERAL CONDITIONS CITY OF TROY

"City" shall mean the City of Troy, Michigan or its properly authorized agents and representatives.

The term "Engineer" shall mean the City Engineer of the City of Troy, Michigan, or a designated City representative, or his duly authorized agents, assistants or representatives, limited to the specific duties assigned or entrusted to them.

The term "Road Commission" when used in the proposal and the plans shall mean the Board of County Road Commissioners of the County of Oakland. (O.C.R.C.)

Contract plans for this project have been developed and prepared by the City of Troy, Standard Specifications for Highway Construction (MDOT 1984) is referred to for standards and materials incorporated in the project. Immediate project supervision and inspection will be performed by the City of Troy.

No additional compensation will be paid to the contractor for any delays or inconvenience due to material shortage or reasonable delays due to the operations of such other parties doing work indicated or shown on the plans or in the proposal or for any reasonable delays on construction due to the encountering of existing utilities that may or may not be shown on the plans.

The contractor shall have available at all times, a competent superintendent or foreman authorized to act for the contractor, as his agent on the work, who thoroughly understands the plans and specifications and who shall receive instructions from the Engineer or designated City representative. The superintendent or foreman shall be designated by name prior to commencement of the work and shall be available as required for proper management of the project during the duration of the contract. Plans and specifications shall be available on the project at all times.

When the Engineer or designated City representative requires the City of Troy forces to perform emergency work, with or without notification to the contractor or surety, the contractor will be charged equipment rental rates as listed in the current edition of Rental Rates for Construction Equipment prepared by Associated Equipment Distributor, and Labor at the rate of twenty five dollars (\$25.00) per hour, per man. The time charged to the contractor shall be from the time the man and equipment leave the City of Troy yard to the time that it returns to the City of Troy yard.

There will be other contractors working in or adjacent to this construction area. The contractor of this project must co-ordinate his work with all other contractors and utility companies.

The contractor shall pay for all inspection over eight (8) hours per day and all inspection on Saturday at the rate of \$25.00 per hour, per man. The contractor will not be charged for overtime on Saturday if he has five (5) men or less performing clean-up work and landscape items. In addition, if holiday or Sunday work is permitted by the City, the contractor shall pay for all inspection at the rate of \$34.00 per hour, per man.

Access to all dwellings and business establishments must be maintained at all times.

A permit will be required from the Oakland County Road Commission for work in the right-of-way of any county road. All fees and bonds necessary to obtain these permits shall be incidental to the project, and no additional payment shall be made to the contractor.



## ELECTRICAL GENERAL CONDITIONS CITY OF TROY

The Electrical Contractor shall provide all labor, tools, equipment and supervision required for the furnishing and installing of all work herein described and/or shown on the drawings.

All workmanship, and methods of installation shall be governed by the requirements of these Specifications, the National Electrical Code, latest revision, and Local Codes.

The Electrical Contractor shall obtain and pay for all permits, licenses, inspections, approvals and fees required by authority or agency having jurisdiction over the installation, alteration or construction of work included. Upon completion of the building, provide Owner with Certificate of Approval, for the project, from Local Electrical Inspection Authorities. All fees shall be included in the Base Proposal.

The Drawings and Specification make mention of items to be purchased and installed and are noted by a manufacturer's name, catalog number and/or brief description. The catalog number as mentioned may not be complete to designate all the accessory parts and appurtenances required for the particular use of function/ Arrange with the manufacturer for the purchase of all items required for the complete installation and efficient operation.

The use of equipment, or any part thereof, for purposes other than testing, even with the Owner's consent, shall not be construed to be an acceptance of the work on the part of the Owner, nor shall it be construed to obligate the Owner in any way to accept improper work or defective materials.

All trenching and backfilling to install work specified in Electrical Division shall be by the Electrical Contractor. Trenching and backfilling shall be incidental to the contract.

When backfilling the trenches and around light pole foundations, the earth must be tamped solidly in place in (8") eight inch layers compacted to 95% maximum density. All excess excavation is to be used or "wasted" on site as directed by the Engineer or designated City representative. Backfilling under any existing or proposed pavement or sidewalk shall be clean sand compacted to 95% maximum unit weight. SAND BACKFILL IS CONSIDERED INCIDENTAL TO THE PROJECT.

Connections to equipment, lighting standards, time clocks, etc., shall be made in accordance with the shop drawings and rough-in measurements furnished by the manufacturers of the particular equipment furnished. Any and all additional connections not shown on the plans, but called for by the equipment manufacturer's shop drawings or required for the successful operation of the particular equipment furnished shall be installed by the Contractor as part of his contract with no additional charge.

Before any materials of this section are fabricated or delivered to the job site, submit complete shop drawings to the Engineer or designated City representative for approval.

The Electrical Contractor shall submit to the Engineer or designated City representative (8) eight copies of all shop drawings.

The Contractor shall submit "as-built" drawings to the Engineer at project completion.

The "as built" drawings shall include the following:

Location of all lighting standards and fixtures as installed.

Conduit runs shown in their relative locations, not merely lines connecting poles. Conduit sizes, wire sizes and number or wires for each run.

Contractor shall provide all materials, equipment, etc., and labor required for tests.

Upon completion of the underground work, the Contractor shall grade the work area smooth, filling any trench settlements, eliminating any large piles of earth and cleaning up any junk, debris, or left over construction materials.

Concrete for foundations shall be immediately and carefully placed after mixing and shall be worked up and down with a spade or similar flat tool, during and immediately after the pour, so as to prevent voids and assure a dense concrete structure.

Approved forms shall be constructed and placed so they will not move or deflect upon placement of concrete and the concrete grout will not leak. All concrete work shall be properly cured as required and upon removal of forms, exposed concrete surfaces shall be pointed and trowled smooth.

Conduits which are installed underground, or concealed in concrete, foundations, etc., shall be cleared of foreign material and obstructions after installation and before conductors or pull wire are drawn in by wire brushing, swabbing and employing an iron or hardwood mandrel which is 1/4" smaller in diameter than the internal diameter of the duct or conduit.

The installation of conductors or pull wire shall not be made until the raceways are found acceptable by the City.

The estimated cable lengths in the proposal are from foundation to foundation. The Contractor will be paid for cable by the linear footage.

Principal items of work include but are not necessarily limited to the following:

- Excavating and Backfilling
- Construct Pole Foundations
- Install Poles and Luminaries
- Install Cable and Conduit
- Install Lighting Control

**ANCHOR BOLTS:** All anchor bolts and associated nuts, studs and couplings shall conform to the requirements of the current Specification and low carbon Steel Externally and Internally Threaded Fasteners, A.S.T.M. Designation: A-307 or equivalent. All anchor bolts for a length not less than (8") eight inches from the threaded end, and all associated nuts, studs and washers and couplings shall be zinc coated in conformance with the requirements of the current Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware, A.S.T.M. Designation: A-153.

Nuts shall be retaped 0.020 inches oversize after galvanizing.

Street lighting cable shall consist of two insulated conductors and one bare ground conductor all paralleled and enclosed in a polyvinyl chloride rigid plastic conduit or in rigid steel, heavy wall conduit in concrete bases and where installed above ground. The plastic conduit shall have a minimum tensile strength of 5,000 PSI at 33.4 deg. F and a minimum tensile modulus of 280,000 PSI as manufactured by Carlon Products Corp., Pittsburgh Standard Division Robroy Industries or approved alternate. This rigid conduit would be placed in the ground first with the wires being pulled through after.

The insulated conductors shall be No. 8 AWG, stranded, soft-drawn coated copper insulated for 600 volts and suitable for wet locations. Ground conductor shall be No. 10 AWG, solid, soft drawn bare, uncoated copper. Insulation shall consist of 4/64" thick rubber, type RHW, rated 75 deg. C and a .030" thick neoprene jacket. The insulated conductors shall be identified by color (red and black).

No splices in cable shall be allowed except in handholes or pole bases, where indicated on the plans. All runs shall be in one continuous length between poles. Conduit shall be buried 2'-6" below final grade.

The grounding system include the provisions, installation, connection and testing of ground rods, cables, poles, fittings and other materials as required for a complete installation.

Grounding shall be in accordance with the latest National Electric Code, State and City or Local Codes and as shown on the Drawings at minimum.

**CABLE SPLICES IN HANDHOLES AND POLE BASES SHALL BE INCIDENTAL TO THE JOB.**

**POLE BASE CONNECTIONS, FUSES AND POLE WIRING ARE INCIDENTAL TO THE POLE INSTALLATION.**

All of the conduit sweeps, anchor or hook bolts, ground rods, ground wire and anything else needed for a complete lighting foundation shall be included in the unit price bid for "Concrete Bases".

All trenching and backfilling shall be incidental to the items of rigid plastic conduit or rigid steel galvanized conduit.

The Contractor shall restore the damaged grass areas with three (3) inches of topsoil, seed, fertilizer and mulch. Topsoil shall be a rich black soil free of roots, rocks, lumps and other foreign materials. Seed shall be installed at the rate of 200 lbs per acres. Mulch shall be installed at the rate of 3 tons per acres. All restoration is incidental to the contract. Sod may be substituted for seed and mulch. The Contractor will be responsible for watering sod until sod growth has been established. The water and watering will be considered incidental to the contract.

The boring of the pavement, as called for in the proposal shall be of the auger method. No squeeze boring will be allowed. Edge of bore pits shall be kept five (5) feet from the edge of pavement or from back of curb. Backfill of the bore pits shall be made in one foot lifts and compacted to 95% of maximum density such that no settlement takes place. The item of "Bore 3" Rigid Galvanized Steel Conduit" shall include all labor, material, equipment and anything else needed for the boring and installation of the three (3") inch conduits.



City of Troy
Oakland County, Michigan
Contract Form

ARTICLES OF AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_

20\_\_ by and between \_\_\_\_\_ of \_\_\_\_\_
(Name) (City and State)

herein after called the Contractor and the City of Troy, Troy, Michigan hereinafter called the Owner,

WITNESSETH, that the Contractor and the Owner for the considerations hereinafter named, agree as follows:

- 1. That all Contract Documents, as defined in the Specifications for "Proposals A, B, and C", "General Conditions", "Electrical General Conditions", and "Electrical Basic Materials Specifications" hereto attached or herein referred to shall be and are hereby made a part of the agreement and contract.
2. The Contractor shall, under penalty of bonds submitted, furnish all labor, materials, and equipment necessary and perform all of the work as set forth in his Proposal in strict accordance with the specifications and other documents which have been made a part of this contract in the manner, time, and place as therein set forth.
3. In consideration whereof, the Owner agrees to pay to the Contractor the amounts provided in the attached Proposal, being the product of the unit prices therein set forth, multiplied by the number of units actually constructed, all in the time and manner as set forth in the Contract Documents.
4. IN WITNESS whereof said parties have hereunto set their hands and seals, the day and year first above written.

WITNESS:

\_\_\_\_\_

\_\_\_\_\_

(Contractor)

\_\_\_\_\_

\_\_\_\_\_

(Title)

APPROVED: BY: \_\_\_\_\_

(Mayor)

City Manager or Designee

CITY OF TROY
(Owner)

RESOLUTION NUMBER: \_\_\_\_\_

APPROVED AS TO FORM AND LEGALITY:

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

(City Clerk)

City Attorney

