

A REGULAR MEETING

Of The

TRAVERSE CITY LIGHT AND POWER BOARD

Will Be Held On

TUESDAY, April 12, 2016

At

5:15 p.m.

In The

COMMISSION CHAMBERS
(2nd floor, Governmental Center)
400 Boardman Avenue

Traverse City Light and Power will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities at the meeting/hearing upon notice to Traverse City Light and Power. Individuals with disabilities requiring auxiliary aids or services should contact the Light and Power Department by writing or calling the following.

Jennifer J. St. Amour
Administrative Assistant
1131 Hastings Street
Traverse City, MI 49686
(231) 922-4940 ext. 201

Traverse City Light and Power
1131 Hastings Street
Traverse City, MI 49686
(231) 922-4940

Posting Date: 04-08-16
4:00 p.m.

AGENDA

Pledge of Allegiance

1. Roll Call

Organizational Meeting. (p.4)

2. Consent Calendar

The purpose of the consent calendar is to expedite business by grouping non-controversial items together to be dealt with by one Board motion without discussion. Any member of the Board, staff or the public may ask that any item on the consent calendar be removed therefrom and placed elsewhere on the agenda for full discussion. Such requests will be automatically respected. If an item is not removed from the consent calendar, the action noted in parentheses on the agenda is approved by a single Board action adopting the consent calendar.

- a. Consideration of approving minutes of the Regular Meeting of March 22, 2016. (Approval recommended) (p.8)
- b. Consideration of BW-31 Project Authorization Request. (Approval recommended) (Arends) (p.10)
- c. Consideration of authorizing a purchase order to Power Line Supply in the amount of \$59,137.92 for materials for LaFranier/Barlow Transmission Line Upgrade project. (Approval recommended) (Arends) (p.13)
- d. Consideration of authorizing a series of purchase orders to Thomasson Company for Wood Distribution Poles for the Pole Replacement project. (Approval Recommended) (Arends) (p.16)

Items Removed From Consent Calendar

- a.
- b.

3. Unfinished Business

- a. Customer Generation – Solar rate discussion. (Arends/Myers-Beman) (p.18)

4. New Business

- a. Consideration of approving a construction contract for LaFranier/Barlow Transmission Line Upgrade project. (Arends/GRP Engineering) (p.36)
- b. Garland Street Project presentation and request for approval and funding of the lighting components. (Colburn) (p.39)

- c. Consideration of a request for approval and financial participation in the Cass Street/Lake Street Streetscape Improvements Project and the Park Street Streetscape Project lighting components. (Colburn) (p.57)

5. Appointments

None.

6. Reports and Communications

- a. From Legal Counsel.
- b. From Staff.
 - a. Project closeout report for Southside Distribution Substation, West Side Transmission Line Upgrade and Wayne Street Distribution Line Rebuild, and Hickory Hills Distribution Underground (Myers-Beman) (p.61)
- c. From Board.

7. Public Comment

- a. Reserved
 - 1. Ann Rogers, 1236 Peninsula Drive, Traverse City, representing NMEAC, Groundworks & MI Climate Action Network regarding what these groups have been doing over the last 7 years to learn, educate, and advocate for renewable green energy, in particular solar, for our area.(p. 67)
- b. General

/js

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016



TRAVERSE CITY
LIGHT & POWER

To: Light & Power Board
From: Tim Arends, Executive Director
Date: April 06, 2016
Subject: L&P Board Organizational Meeting

As required by City Charter Section 177(f), the board meeting of April 12, 2016 will be the annual organizational meeting in which a chairperson and vice-chairperson are elected, and a secretary is appointed by the Board. The Charter language is as follows:

“An election of officers of the Board shall be held annually at the first regular meeting following the appointment of a new Board member after the end of a regular term of office. No member shall serve as chairman for more than two (2) consecutive terms.”

All Board Members, with the exception of John Taylor who has just completed two consecutive terms, are eligible for nomination as board chairperson. All Board Members are eligible to serve as vice-chairperson. The following procedure would be appropriate for the organizational portion of the meeting.

- Tim Arends, as Secretary to the Board, shall initially preside over the meeting.
 - Call meeting to order – Pledge of Allegiance
 - Roll Call
 - Open the floor to nominations for chairperson (nominations need support), call for any further nominations for chairperson.
 - Close nominations
 - Board discussion (nominations will be voted on in order received)
 - Public comment (specific to nominations for chairperson)
 - Voice Vote – Once four votes are received by any one nominee that nominee becomes the new chairperson.
 - Secretary turns the meeting over to the new chairperson.
- The newly elected chairperson follows the same process described above in electing a vice-chairperson of the Board.
- The Chairperson should then appoint a Secretary to the Board with approval of a Board majority. This has historically been the Executive Director.
- Next, a Human Resources Committee should be formed consisting of two or three board members and one alternate. City Charter Section 177(h) allows for ad hoc subcommittees, however, there can be no standing committees. Therefore, it is appropriate to have this committee’s term expire at the end of 12 months.
- Proceed to the Consent Calendar portion of the Agenda.

The City of Traverse City

Office of the City Clerk

GOVERNMENTAL CENTER
400 Boardman Avenue
Traverse City, MI 49684
(231) 922-4480
tcclerk@traversecitymi.gov



March 22, 2016

Mr. Patrick McGuire
308 N. Elmwood Ave
Traverse City, MI 49684

Dear Mr. McGuire:

Subject: Reappointment -- Traverse City Light and Power Board

Congratulations on your reappointment! As you may be aware, the City Commission has reappointed you to one five-year term expiring April 5, 2021, on the Traverse City Light and Power Board.

It is great to see people like you who are willing to serve. I am sure that I can speak accurately on behalf of the citizens of Traverse City when I express appreciation for your generosity with your time, experience and knowledge.

I am enclosing an updated excerpt of the City's Board Book showing the current City representation on the Board.

Again, thank you for your willingness to serve in a capacity that contributes to the betterment of our community.

Sincerely,


Benjamin C. Marentette, MMC
City Clerk

copy: Tim Arends, Executive Director

*Hi Pat -
Thank you for
your service!
B*

Traverse City Light & Power Board

	<u>Initial Apt. Date</u>	<u>Termination</u>
Jeff Palisin (City Resident Elector) 975 Pine Ridge Dr, TC, 49686 929-6666 (Res) 499-7655 (Bus) jeffpc@normicind.com	03/18/13 (Eff. 4/2/13)	04/02/18
John Taylor (City Resident Elector) 307 W 12th St, TC, 49684 922-1187 (Res) 617-532-0944 (Bus) 617-899-1769 (Cell) john.a.taylor@gmail.com	05/03/10	04/06/20
Bob Spence (City Resident Elector) 307 W, 11th St, TC, 49684 645-4222 (Cell) 947-7824 (Bus)	05/07/12	04/03/17
Jan Geht (City Resident Elector) 715 Quail Ridge Dr, TC, 49686 205-255-1516 (Res) 941-8048 (Bus) geht@traverselaw.com	06/17/13	04/01/19
Patrick McGuire (City Resident Elector) 308 N. Elmwood Ave, TC, 49684 883-2087 (Cell) 995-7896 (Bus) paddymcguire@me.com	11/10/11	04/05/21
Commissioner Tim Werner (Ex Officio/Full Voting Authority) 400 Boardman Ave, TC, 49684 313-6903 (Res) twerner@traversecitymi.gov	11/09/15	11/13/17
Commissioner Amy Shamroe (Ex Officio/Full Voting Authority) 511 Depot View #20, TC, 49686 517-930-9999 (Res) ashamroe@traversecitymi.gov	11/09/15	11/13/17

Executive Director and Secretary (Tim Arends – Executive Director) - staff

Non-Commissioner Board members shall be appointed to serve terms of five (5) years from the first Monday of April. The Commission Board members shall be appointed for a two-year term bi-annually at the City Commission organizational meeting.

This Board consists of 7 members nominated and appointed by the City Commission. Unexpired term vacancies shall be filled by the Mayor with approval of the City Commission. Not less than one and no more than two of these members shall be City Commissioners selected by the City Commission and shall be ex-officio members with full voting authority.

Members must be resident elector of City, except that one member may be non-resident if he resides within current actual service area of the Department (current actual service area is defined as an address that could receive service from TCL&P; it is not required that the address is currently receiving service from TCL&P).

Non-Commission Board Members cannot hold any other City office nor can they be an employee of the City.

The City Manager or the City Manager's designee shall be an ex-officio member without voting authority and shall not be counted for purposes of establishing a quorum.

Purpose: "shall have exclusive jurisdiction, control and management of the Light and Power Department and all its operations and facilities, except as herein provided. Unless specifically allocated to the City Commission or to a City official, the Board shall have all the powers and duties possessed by the City to construct, acquire, expand and operate the Light and Power system, etc., etc.," (See Charter provisions).

Creation of the Light & Power Board required by City Charter.

Meets 2nd and 4th Tuesday of each month at 5:15

**TRAVERSE CITY
LIGHT AND POWER BOARD**

Minutes of Regular Meeting
Held at 5:15 p.m., Commission Chambers, Governmental Center
Tuesday, March 22, 2016

Board Members -

Present: Pat McGuire, Jeff Palisin, Amy Shamroe, Bob Spence, Jan Geht

Absent: Tim Werner, John Taylor

Ex Officio Member -

Present: Penny Hill, Assistant City Manager

Others: Tim Arends, W. Peter Doren, Karla Myers-Beman, Pete Schimpke, Kelli Schroeder, Jennifer St. Amour, Stephanie Tvardek

The meeting was called to order at 5:15 p.m. by Vice Chairman Geht.

Item 2 on the Agenda being Consent Calendar

Moved by McGuire, seconded by Shamroe, that the following actions, as recommended on the Consent Calendar portion of the Agenda, be approved:

- a. Minutes of the Regular Meeting of March 8, 2016.
- b. Purchase order to Power Line Supply for optical wire for the LaFranier/Barlow Transmission Line Upgrade Project.
- c. Electric Utility 2016-17 Operating Budget.

CARRIED unanimously. (Werner, Taylor absent)

Items Removed from the Consent Calendar

None.

Item 3 on the Agenda being Unfinished Business

None.

Item 4 on the Agenda being New Business

None.

Item 5 on the Agenda being Appointments

None.

Item 6 on the Agenda being Reports and Communications

a. From Legal Counsel.

None.

b. From Staff.

1. Tim Arends and Board discussed the potential transfer of River Road customers to Cherryland Electric Cooperative.

The following individuals addressed the Board:

W. Peter Doren, General Counsel
Karla Myers-Beman, Controller
Penny Hill, Assistant City Manager

2. Karla Myers-Beman presented the 2015 Annual Report to customers.

The following individuals addressed the Board:

Tim Arends, Executive Director

3. Tim Arends polled the Board for availability for the April 12, 2016 Regular Meeting. A majority of the Board members will be available, the meeting stands.

c. From Board.

1. Jan Geht congratulated Pat McGuire on his reappointment to the TCL&P Board.

Item 7 on the Agenda being Public Comment

No one from the public commented.

There being no objection, Vice Chairman Geht declared the meeting adjourned at 5:39 p.m.

/st

Tim Arends, Secretary
LIGHT AND POWER BOARD



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Pete Schimpke, Manager of Operations & Engineering
Date: April 6, 2016
Subject: 2016 Distribution Circuit Rehabilitation Circuit BW-31

As reported to the Board on several occasions over the last few years, TCL&P Staff has been working on the design and cost estimate for the rehabilitation of circuit BW-31 out of our Barlow Substation. Recently, we noticed that no Project Authorization Request (PAR) was ever submitted to the Board.

The cost estimate is \$721,000. In an effort to be consistent with other Capital Improvement Projects and in accordance with proper established procedures, we are now submitting the PAR for Board approval. Gaining approval will allow staff to proceed and complete the project.

This item is appearing on the Consent Calendar as it is deemed by staff to be a non-controversial item. Approval of this item on the Consent Calendar means you agree with staff's recommendation.

If any member of the Board or the public wishes to discuss this matter, other than clarifying questions, it should be placed on the "Items Removed from the Consent Calendar" portion of the agenda for full discussion. If after Board discussion you agree with staff's recommendation the following motion would be appropriate:

MOVED BY _____, SECONDED BY _____,

THAT THE LIGHT & POWER BOARD AUTHORIZES STAFF TO PROCEED WITH THE 2016 DISTRIBUTION CIRCUIT REHABILITATION PROJECT, CIRCUIT BW-31, AT AN APPROXIMATE COST OF \$721,000 AND DIRECTS STAFF TO SOLICIT MATERIAL QUOTES FOR THE BOARD'S CONSIDERATION OF APPROVAL.

**2016 Distribution Circuit Rehabilitation
Circuit BW-31
PROJECT AUTHORIZATION REQUEST
PAR# 2016-2**



Date of Board Presentation/Consideration: April 12, 2016

Budgeted in Capital Plan: Yes **CIP:** \$650,000

Objective: Target Completion date of May 15, 2017

Project Description:

Rehabilitate distribution facilities on the Barlow Circuit BW-31 (BW-31) to improve reliability and public safety. This project includes replacing approximately 115 deteriorated poles, about 17,900 feet of old copper primary and secondary conductor and 28 transformers. Existing 336 ACSR conductor will be reused on the new pole structures for the 3-phase part of the circuit. This project affects almost 700 Traverse City Light & Power (TCL&P) customers. The project location involves the areas starting at the Barlow Substation just south of Eighth Street on Barlow Street, going north to Front Street, then going east of Front Street to Peninsula Drive and Milliken Drive. The circuit then goes north on Peninsula Drive to Center Road and north on Milliken Drive to Eastern Avenue.

Selection Method:

BW-31 was chosen from 25 distribution circuits based on number of customers as well as reliability history.

Project Purpose and Necessity (Problem We Are Solving):

Many years of being exposed to ice, wind, rain, and snow have left BW-31 in need of repair. While poles, wires, and other pieces of equipment continue to deteriorate, the risk of poles and wires falling on the ground continues to increase -- posing a public safety concern. In addition, more interruptions of service to our customers will occur with longer durations.

Project Benefits:

The 2016 Distribution Circuit Rehabilitation of BW-31 will:

- Improve public safety by reducing the chance of poles and wires falling down
- Improve customer service by reducing outages as well as duration of outages.
- Reduce energy needs by reducing losses in older and smaller conductors.
- Reduce maintenance costs associated with emergency repairs.

**2016 Distribution Circuit Rehabilitation
Circuit BW-31
PROJECT AUTHORIZATION REQUEST
PAR# 2016-2**



Other Alternatives:

Do nothing. Public safety could be jeopardized by falling wires and poles. Customer satisfaction will decline as the number of outages along with the duration of outages will climb. Maintenance costs will increase as more money will be spent on emergency repairs. There will be no conservation of energy since the smaller and older conductors will continue to cause higher line losses as compared to installing new larger conductors.

Timing of Project (Why Now):

TCL&P currently has 25 distribution circuits. Most will require at least one-half to one full year rehabilitation in the up-coming years. This yearly rehabilitation project must begin now in order for us to perform timely repairs on the various circuits.

Cost Estimate:

Materials	\$ 109,565
Labor (3-man crew with bucket & digger)	\$ 486,957
Engr & Administration & Construction Inspections	\$ 30,435
<u>Contingency (15%)</u>	<u>\$ 94,043</u>
Total	\$ 721,000

Financing Method:

Cash from TCL&P fund balance and as planned for in the six year Capital Plan. Bonding will not be required.

Impact on O&M Expenses:

A reduction in annual maintenance costs associated with normal maintenance and emergency repairs will occur.

Staff Recommendation:

Staff recommends the TCL&P Board approve the 2016 Distribution Circuit Rehabilitation of Barlow Circuit BW-31 and all necessary expenditures in order to maintain safe and reliable distribution service to its customers.



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Pete Schimpke, Manager of Operations & Engineering *PJS*
Date: April 7, 2016
Subject: LaFranier/Barlow Transmission Line Upgrade Project: Material Bids

On Wednesday, April 6, 2016, four bids were received for electrical cable & equipment for the LaFranier Road 69 kV Transmission Line Project. Two bidders Power Line Supply and RESCO, submitted complete bids while the bids from Annixer and Irby had items for which there was no price quoted. The Bid prices are:

Vendor

Power Line Supply	\$59,137.92 (includes a 1.5% discount)
RESCO	\$77,792.35
Annixer	Not all items quoted
Irby	Not all items quoted

For your review, attached is GRP's letter recommending Power Line Supply. Staff concurs with GRP's recommendation to accept the bid from Power Line Supply in the amount of \$59,137.92, and recommends the Board authorize the issuance of a purchase order for the transmission material.

This item is appearing on the Consent Calendar as it is deemed by staff to be a non-controversial item. Approval of this item on the Consent Calendar means you agree with staff's recommendation.

If any member of the Board or the public wishes to discuss this matter, other than clarifying questions, it should be placed on the "Items Removed from the Consent Calendar" portion of the agenda for full discussion. If after Board discussion you agree with staff's recommendation then the following motion would be appropriate.

MOVED BY _____, SECONDED BY _____.

THAT THE BOARD AUTHORIZES THE EXECUTIVE DIRECTOR TO ISSUE A PURCHASE ORDER TO POWER LINE SUPPLY IN THE AMOUNT OF \$59,137.92 FOR TRANSMISSION MATERIAL FOR THE LAFRANIER/BARLOW TRANSMISSION LINE UPGRADE PROJECT.

April 6, 2016
15-0799.01

Mr. Pete Schimpke
Traverse City Light & Power
1131 Hastings Street
Traverse City, MI 49686

**RE: LaFranier Road 69kV Transmission Line
Electrical Material Bid Evaluation & Recommendation**

Dear Pete:

GRP Engineering, Inc. has completed our evaluation of the electrical cable & equipment material quotes for the LaFranier Road 69kV Transmission Line Project. Of the four material vendors invited to bid, all responded with quotations, but only Power Line Supply (PLS) and RESCO supplied a complete quotation for all items.

<u>Vendor</u>	<u>Electrical</u>	
Power Line Supply	\$60,038.50	
Annixer	\$	<i>(Not all items quoted.)</i>
RESCO	\$77,792.35	
Irby	\$	<i>(Not all items quoted.)</i>

GRP Engineering, Inc. recommends that TCL&P accept the material quotation from Power Line Supply for the LaFranier Road 69kV Transmission Line electrical material. Additionally, Power Line Supply will offer a 1.5% discount if all items are purchased through them. Please contact me should you have any additional questions regarding this evaluation and recommendation.

Sincerely,
GRP Engineering, Inc.



Michael P. McGeehan, P.E.
Project Manager

cc: Traverse City Light & Power
Mr. Tim Arends

BID TABULATION

OWNER:
TRAVERSE CITY LIGHT & POWER
1131 HASTINGS STREET
TRAVERSE CITY, MI 49686

ENGINEER:
GRP ENGINEERING, INC.
459 BAY STREET
PETOSKEY, MI 49770

**LAFRANIER RD TRANSMISSION LINE
 MATERIAL**

BIDDERS	BID PRICE	REMARKS
Annixer 1100 Old State Rd Mattoon, IL 61938		Incomplete
Power Line Supply 420 Roth Street Reed City, MI 49677	\$60,038.50	1.5% discount if everything is purchased (\$59,137.92)
RESCO 2250 Pinehurst Dr Middleton, WI 53562	\$77,792.35	
Irby 5846 Venture Way Mt. Pleasant, MI 48858		Incomplete

This is to certify that at 2:00p.m., local time on Wednesday, April 6, 2016, the bids tabulated herein were publicly opened and read.

GRP Engineering, Inc.

Michael P. McGeehan

By: _____
 Michael P. McGeehan, P.E.



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Pete Schimpke, Manager of Operations & Engineering pjs
Date: April 6, 2016
Subject: Pole Replacements Project – Wood Distribution Poles

At the February 23, 2016 regular meeting, the Board approved the project authorization request for the Pole Replacements Project, which includes the replacement of approximately 300 substandard poles and related material. Of the 300 poles for replacement, staff has reallocated 23 poles that are located within the BW-31 circuit footprint. These poles will be charged to the BW-31 circuit rehab project. Staff issued a Request for Proposal (RFP) for the wood distribution poles and will be requesting the Board award the bid at the April 12 meeting. Staff plans to have a material bid award ready for approval by April 26, 2016.

Requests for wood distribution poles were sent out and received as follows:

	BIDDERS			
	Thomasson Co.	Bell Lumber & Pole Co.	Brown Wood Preserving Co., Inc.	Bridgewell
35' Unit Price	\$244.37	\$255.00	No Bid	\$263.00
40' Unit Price	\$290.87	\$326.00	No Bid	\$322.00
45' Unit Price	\$355.72	\$384.00	No Bid	\$394.00
50' Unit Price	\$401.95	\$447.00	No Bid	\$440.00
55' Unit Price	\$512.58	\$597.00	No Bid	\$686.00
60' Unit Price	\$526.95	\$698.00	No Bid	\$780.00
Total Project Cost*	\$69,144.81	\$75,813.00		\$77,555.00

*Total Project Cost is based on estimated quantities of total poles required in each height category

The RFP requested bidders submit a unit price that shall be held firm over the next 12 months. Due to the large quantity of poles needed for this project, and limited space to store that quantity on site, staff intends to purchase poles in batches of small quantities as needed throughout the length of the project.

Staff took advantage of the early thaw in March and got a head start on this project outside of the city limits (due to the moratorium on digging within the City of Traverse City before early April). Poles have been taken from inventory for work completed to-date, but staff plans to replace those poles through the purchase orders with the approved vendor.

This item is appearing on the Consent Calendar as it is deemed non-controversial. Staff recommends issuing a series of purchase orders to Thomasson Company for the purchase of wood

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

distribution poles. Approval of this item on the Consent Calendar means you agree with staff's recommendation.


If any member of the Board or the public wishes to discuss this matter, other than clarifying questions, it should be placed on the "Items Removed from the Consent Calendar" portion of the agenda for full discussion. If after Board discussion you agree with staff's recommendation the following motion would be appropriate:

MOVED BY _____, SECONDED BY _____,

THAT THE BOARD AUTHORIZES THE EXECUTIVE DIRECTOR TO ISSUE A SERIES OF PURCHASE ORDERS TO THOMASSON COMPANY IN THE NOT TO EXCEED AMOUNT OF \$69,144.81 FOR WOOD DISTRIBUTION POLES FOR THE POLE REPLACEMENTS PROJECT.



TRAVERSE CITY
LIGHT & POWER

To: Light & Power Board
From: Tim Arends, Executive Director 
Date: April 12, 2016
Subject: Solar Avoided Cost Rate Tariff

At the February 23, 2016 Board meeting, Mark Beauchamp from Utility Financial Solutions, LLC (“UFS”) presented on the topic of solar avoided cost rate tariff. The primary purpose of this discussion was driven by a request from a commercial customer to construct a large solar array within the utility’s distribution system. (Selected pages from his presentation are included for your reference.)

The utility had to formulate a fair tariff rate to allow the customer to appropriately calculate their rate of return on their solar array investment since the solar array exceeded the Net Metering Policy’s (the “Policy”) allowable nameplate capacity of 20 kW. Since that time, another customer has shown interest in constructing a large solar array within the utility’s distribution system.

As a secondary discussion, UFS also calculated the avoided cost tariff rate for residential customers. This was completed as a visionary step based on the presumption that the utility would want to remove the subsidies of fixed infrastructure costs that are not being shared by those customers that are participating in the Policy (the Policy is included for your review). The approximate amount of those subsidies is approximately \$3,400 with current net metering participants. If the Policy capacity amount were to become fully subscribed, the subsidies would approximate \$21,700. (A spreadsheet is included providing the current subscription of net metering participants and the balance left to be subscribed.)

If the utility were to implement the proposed avoided cost rate tariff, from the customer perspective this would impact the payback on the customers investment in solar generation. Staff assumed a 5 kW solar array, costing \$15,000 for a residential rate class customer, with the customer taking advantage of the 30% federal tax credit, 12% capacity factor and receiving credits allowed by the utility’s Policy, it would have a payback period of 20.1 years; if the utility were to approve the avoided cost rate tariff, the payback period would extend to 27.45 years. The offset of electricity and excess credits would decline from \$524.64 to \$382.56. (Analysis does not take into consideration time value of money or solar degradation.)

Staff has obtained several net metering policies from other utilities in the State of Michigan and the majority of them follow the guidelines set forth in the Public Act 295 of 2008, Clean, Renewable and Efficient Energy Act, and have not moved toward changing to more of a

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

customer generation policy that would have characteristics similar to legislation proposed in the current house and senate bills as follows:

1. Senate Bill 483

- a. A distributed generation customer shall purchase all of the electricity consumed and shall receive a credit for all energy produced.
- b. The bill credit shall be the value of the energy avoided by the electric utility, which shall be determined by applying the day ahead wholesale energy market clearing price at the appropriate pricing node. The value of energy avoided shall be determined by applying the relevant independent system operator's monthly capacity auction clearing price for each kilowatt per month.

2. House Bill 4879 (similar to Public ACT 295 of 2008 except for those generators with capacity of 500kW or more)

- a. Apply a fair value tariff only to those customers whose eligible electric generators have a capacity of 500 kW or more.

3. House Bill 4880

- a. An electric provider may apply for commission approval for an alternative rate that compensates a customer through a bill credit.
- b. The alternative rate value methodology shall at a minimum account for the value of energy and its delivery, generation capacity, transmission capacity, line losses and environmental value.

On the national level, (information from the National Renewable Energy Laboratory website) Minnesota and Texas are the only two states that have moved toward a value of solar tariff rate design (alternative to net metering), where the customer continues to purchase all of their energy at the utility's retail rate, but are compensated for solar PV generation at a separate rate in dollars per kWh.

The benefits of moving toward this type of model is the utility can better understand customer load, customers receive compensation based on utility specific benefits and costs and customers pay for transmission and distribution services embedded in the retail rate of the electricity they purchase.

TCL&P's current Policy has limits based on rate classes (150 kW for residential, 320 kW for commercial, and 290 kW for industrial), staff is proposing to eliminate this restriction and allow the projects based on a first come first serve basis.

Staff is providing options on how the Board can move forward. The options are not all inclusive and different variations could be created. Staff is recommending option number two, as it allows the utility to continue to provide something they have already offered while waiting and monitoring how state and national trends proceed over the next few years.

1. No proposed changes to the Net Metering Policy, and any projects that exceed the allowed limit would be brought before the Board through a purchase power agreement with the solar avoided cost rate tariff being the proposed rate for payment of energy. Once the Policy is 80% subscribed, staff would come back to the Board with a proposed

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

customer generation policy on moving forward, or allow for the expansion of the current Net Metering Policy.

NO MOTION IS NECESSARY.

2. Remove the rate class restrictions of residential, commercial and industrial and allow the net metering projects to be approved based on availability of the authorized kW's, not taking into consideration the customer's rate classes. Projects that exceed the allowed project size limit would be brought before the Board through a purchase power agreement with the solar avoided cost rate tariff being the proposed rate for payment of energy. Once the Net Metering Policy is 80% subscribed, staff would come back to the Board with a proposed policy on moving forward or expand the policy limits.

MOVED BY _____, SECONDED BY _____,

**THAT THE BOARD AUTHORIZES STAFF TO AMEND THE NET METERING
POLICY BY REMOVING THE RATE CLASS RESTRICTIONS.**

3. Move forward in setting a public hearing for the proposed solar avoided cost rate tariff to be held at the April 24, 2016 regular meeting and draft a customer generation policy for Board approval that would grandfather all current participants in the Net Metering Policy.

MOVED BY _____, SECONDED BY _____,

**THAT THE BOARD AUTHORIZES THE SECRETARY TO SET A PUBLIC HEARING
FOR THE PROPOSED SOLAR AVOIDED COST RATE TARIFF TO BE HELD AT
THE APRIL 24, 2016 REGULAR MEETING; AND FURTHER THAT A NOTICE OF
THE PUBLIC HEARING BE POSTED ON THE UTILITY'S WEBSITE AND PLACED
IN THE TRAVERSE CITY RECORD EAGLE.**

Solar Avoided Cost Study Traverse City



Utility Financial Solutions, LLC
Mark Beauchamp – President
mbeauchamp@ufswb.com

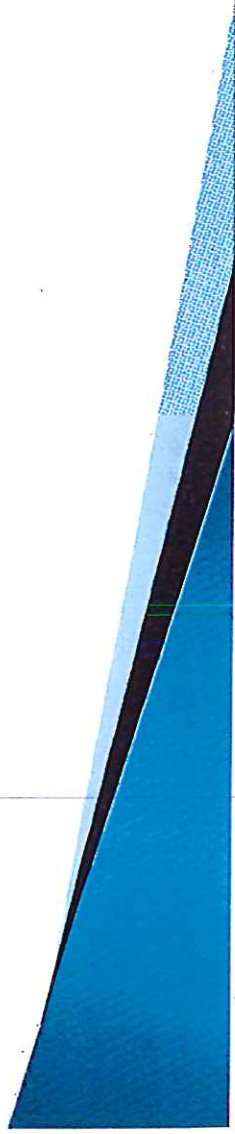
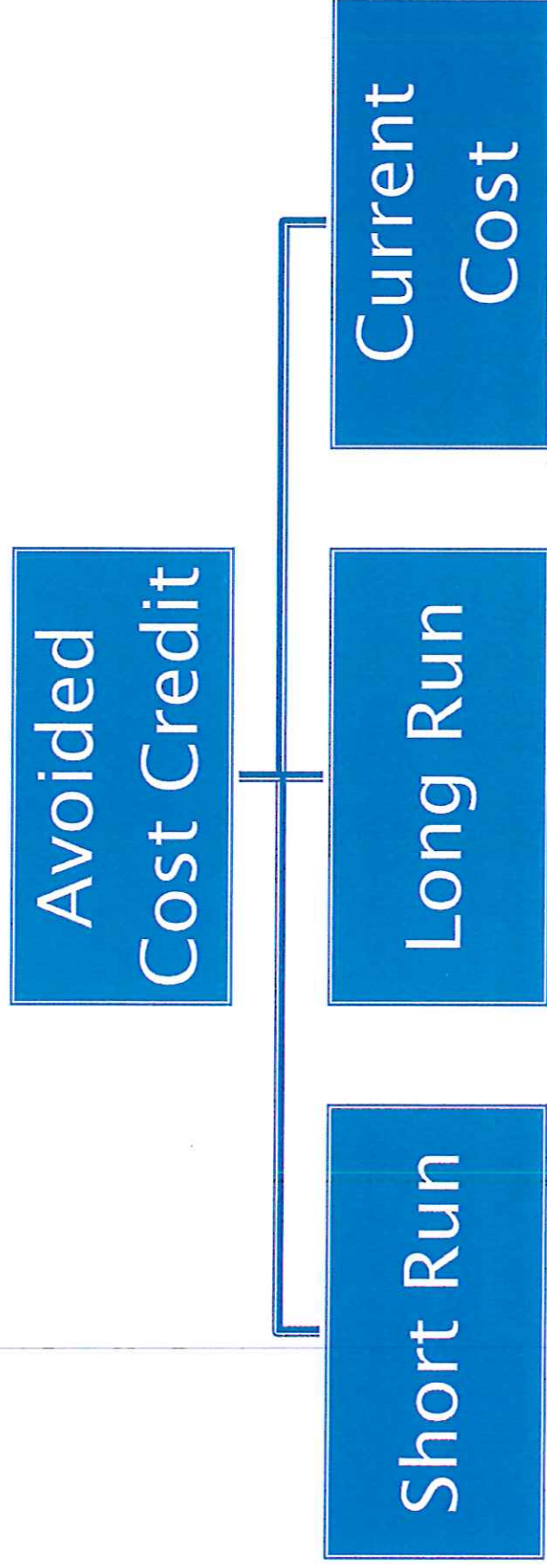
Review

- ▶ Traverse City recently retained Utility Financial Solutions to conduct studies on solar avoided cost, standby rate and revenue neutral rate design
- ▶ UFS completed an avoided cost determination for TCLP value of solar for residential to be .0808 cents per kWh and for commercial .0842 cents per kWh
- ▶ Using the prior TCLP cost of service study results, recent rate design updates and production profile for solar the long run avoided cost for Traverse City was determined



Determining the Value of Avoided Cost Credit

Three theories on how to value the avoided cost credit



Determination of Avoided Cost

Credit

Short Run

- ▶ When customer provides power supply to the utility the avoided cost in short run is the cost that is avoided
 - Market purchase of power
 - Fuel cost savings
 - Transmission savings
- ▶ Can vary substantially in any given year
- ▶ Inconsistent price signal to customer
- ▶ May not provide credit for capacity value of customers generation

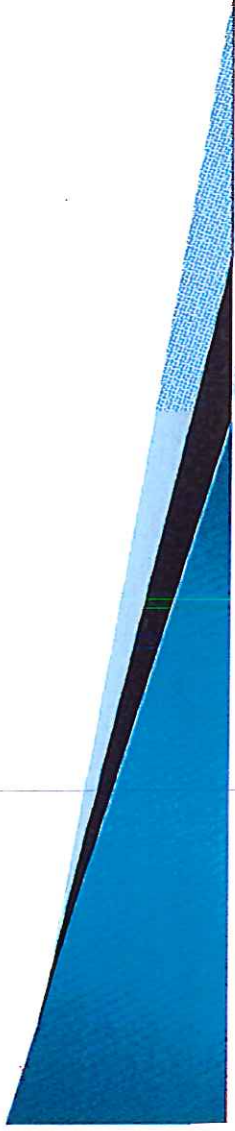


Determination of Avoided Cost

Credit

Long Run

- ▶ Avoided costs are determined using a theoretical cost of avoiding construction of generation
 - Capital cost of avoided generation
 - Fuel cost savings
 - Transmission savings
 - Reserve requirement

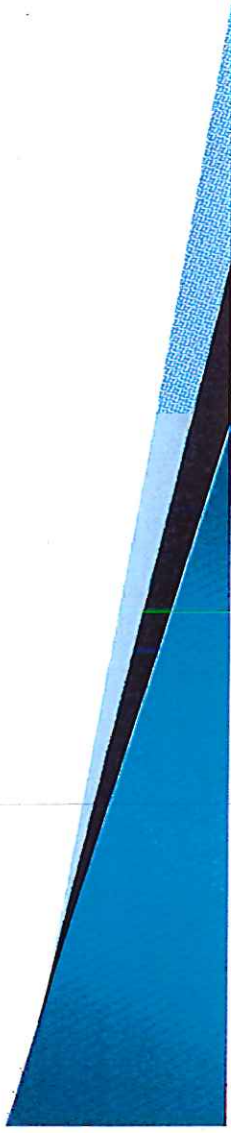


Determination of Avoided Cost

Credit

Current Cost

- ▶ Avoided cost are determined using cost of service studies both demand and energy component for Power Supply
- ▶ Uses historical investment and average costs
- ▶ Gives customer credit for both capacity and fuel costs



Traverse City Used Long-Run Marginal Cost Savings and based

- ▶ **On current costs**
- ▶ Distribution lines
- ▶ Transformers
- ▶ Substations
- ▶ Sub transmission system
- ▶ System Losses
- ▶ Power Supply from TCLP
- ▶ Solar production data was derived from NREL (National Renewable Energy Laboratory) historical irradiance data
- ▶ Natural gas prices for next generating unit were derived from www.eia.gov (US Energy Information Administration)

Residential Savings

Solar - Residential											
Month	Production			Transmission			Substation and Distribution			Avoided	
	Capacity Savings	Transmission Savings	Energy Savings	Sub Transmission	Distribution Savings	Total Savings	Cost per kWh				
1	\$ 897.93	\$ 297.96	\$ 384.45	\$ 175.43	\$ 16.70	\$ 1,772.48	\$0.1221				
2	\$ 744.78	\$ 245.86	\$ 732.32	\$ 145.51	\$ 31.81	\$ 1,900.28	0.0687				
3	\$ 759.15	\$ 254.95	\$ 1,455.32	\$ 148.32	\$ 63.21	\$ 2,680.95	0.0488				
4	\$ 1,850.42	\$ 632.68	\$ 1,930.28	\$ 361.52	\$ 83.84	\$ 4,858.74	0.0667				
5	\$ 1,701.44	\$ 523.45	\$ 2,367.61	\$ 332.42	\$ 102.84	\$ 5,027.76	0.0563				
6	\$ 3,272.67	\$ 1,041.07	\$ 2,363.19	\$ 639.39	\$ 102.65	\$ 7,418.97	0.0832				
7	\$ 2,254.51	\$ 474.36	\$ 2,324.61	\$ 440.47	\$ 100.97	\$ 5,594.91	0.0638				
8	\$ 5,505.45	\$ 1,116.44	\$ 2,060.19	\$ 1,075.62	\$ 89.49	\$ 9,847.19	0.1266				
9	\$ 5,175.77	\$ 1,080.45	\$ 1,637.89	\$ 1,011.21	\$ 71.14	\$ 8,976.47	0.1452				
10	\$ 869.93	\$ 296.95	\$ 1,177.76	\$ 169.96	\$ 51.16	\$ 2,565.77	0.0577				
11	\$ 647.18	\$ 215.00	\$ 624.55	\$ 126.44	\$ 27.13	\$ 1,640.30	0.0696				
12	\$ 266.45	\$ 90.83	\$ 343.26	\$ 52.06	\$ 14.91	\$ 767.51	0.0592				
Total	\$ 23,945.68	\$ 6,270.02	\$ 17,401.42	\$ 4,678.35	\$ 755.85	\$ 53,051.32	0.0808				



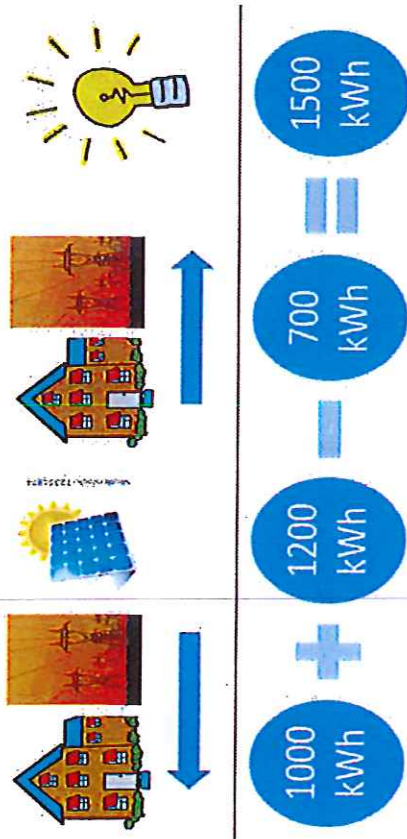
Commercial Savings

Solar - Commercial														
Month	Production			Transmission			Energy Savings			Substation and Distribution			Avoided Cost per kWh	
	Capacity Savings	Transmission Savings	Energy Savings	Sub Transmission	Distribution Savings	Total Savings	Total Savings	kWh						
1	\$ 897.93	\$ 297.96	\$ 384.45	\$	\$ 175.43	\$ 66.62	\$ 1,822.41	\$0.1256						
2	\$ 744.78	\$ 245.86	\$ 732.32	\$	\$ 145.51	\$ 126.90	\$ 1,995.37	0.0722						
3	\$ 759.15	\$ 254.95	\$ 1,455.32	\$	\$ 148.32	\$ 252.19	\$ 2,869.92	0.0522						
4	\$ 1,850.42	\$ 632.68	\$ 1,930.28	\$	\$ 361.52	\$ 334.49	\$ 5,109.38	0.0701						
5	\$ 1,701.44	\$ 523.45	\$ 2,367.61	\$	\$ 332.42	\$ 410.27	\$ 5,335.19	0.0597						
6	\$ 3,272.67	\$ 1,041.07	\$ 2,363.19	\$	\$ 639.39	\$ 409.50	\$ 7,725.82	0.0866						
7	\$ 2,254.51	\$ 474.36	\$ 2,324.61	\$	\$ 440.47	\$ 402.82	\$ 5,896.76	0.0672						
8	\$ 5,505.45	\$ 1,116.44	\$ 2,060.19	\$	\$ 1,075.62	\$ 357.00	\$ 10,114.70	0.1301						
9	\$ 5,175.77	\$ 1,080.45	\$ 1,637.89	\$	\$ 1,011.21	\$ 283.82	\$ 9,189.15	0.1486						
10	\$ 869.93	\$ 296.95	\$ 1,177.76	\$	\$ 169.96	\$ 204.09	\$ 2,718.70	0.0611						
11	\$ 647.18	\$ 215.00	\$ 624.55	\$	\$ 126.44	\$ 108.22	\$ 1,721.39	0.0730						
12	\$ 266.45	\$ 90.83	\$ 343.26	\$	\$ 52.06	\$ 59.48	\$ 812.08	0.0627						
Total	\$ 23,945.68	\$ 6,270.02	\$ 17,401.42	\$ -	\$ 4,678.35	\$ 3,015.41	\$ 55,310.88	0.0842						



Metering & Billing Method

Determine Customer Usage



- ▶ Customer billed on total facilities electric usage
- ▶ Utility credits customer on the total solar production
- ▶ Metering required:
 - Meter on solar unit
 - Meter on facility

Residential Option

Residential Charge per kW of Solar Installation	
Average Residential Rate	\$ 0.11025
Avoided Cost	0.0808
Lost Revenues per kWh	0.0295
Annual kWh production from 1 kW of Solar	1,095
Annual Under-Recovery from Solar	\$ 32.29
Additional Monthly Charge per kW of installed Solar	
	\$ 2.69

- ▶ Additional Charge per Month per installed kW. Example: 5 kW Solar unit would be Charged \$13.45(\$2.69 x 5)



City of Traverse City
Light and Power Department
Adopted: July 27, 2010

NET METERING POLICY

Purpose:

The purpose of the Net Metering Policy is to provide an opportunity for Traverse City Light & Power (TCL&P) customers to produce local renewable energy that may partially or fully offset their energy requirements while ensuring the general safety of the TCL&P employees, the Public, and maintaining the integrity of the TCL&P Distribution System.

Availability:

Net Metering shall be available for TCL&P residential, commercial, and industrial customers on a "first come-first served" basis for those customers who meet all of the requirements within the provisions of the Net Metering and Interconnection and Operation Agreements.

The total aggregated participation in this program shall be limited to 150 kW for new projects (*new projects* are defined as those net metering facilities which were not operational in parallel with the TCL&P distribution system before the adoption of this policy) in the residential customer class, 320 kW for new projects in the commercial customer class, and 290 kW for new projects in the industrial customer class. The size of any individual project shall be limited to 80% of the customer's calculated or metered electrical requirements.

Under no circumstances shall the output from a Net Metering facility be sold to a third party, credited to a third party, or any other TCL&P customer.

All Net Metering projects shall be located on property owned and occupied by the customer or affiliated entity. The project must be intended to offset a portion of the customer's requirements for electricity.

The facility must operate in parallel with the TCL&P distribution system as determined by TCL&P. Acceptable forms of generation shall be limited to renewable inverter type generation.

The Net Metering customer shall be required to:

- Submit an application for review by the TCL&P Department
- Provide a One-Line Diagram of the proposed Net Metering facility.
- Enter into a Net Metering Agreement with TCL&P.
- Enter into an Interconnection and Operations Agreement with TCL&P.

The customer is required to pay a one-time \$100 application fee. If the generating facility is not approved by TCL&P, the application fee shall be refunded to the customer.

Determining the Allowable Size of the Project:

No single Net Metering project shall exceed a total nameplate capacity of 20 kW. Upon receiving an application from the customer, TCL&P shall determine the maximum nameplate capacity of the Net Metering facility allowed on the property.

Equipment and Operation:

The customer is responsible for the costs of construction, operation, and maintenance of an approved Net Metering generation facility such that it meets or exceeds all industry safety and performance standards, i.e. UL 1741 scope 1.1A, and IEEE Standard 1547.1.

Before connection to the TCL&P distribution system, the customer shall test the Net Metering facilities safety protection devices, in the presence of TCL&P personnel, and such testing shall be approved by the utility. TCL&P requires that the protection equipment be tested every two years, at the customer's expense, by qualified personnel, in a manner acceptable to TCL&P.

The customer shall provide an accessible safety disconnect switch located outside of the facility, in a visible location, and adjacent to TCL&P's metering equipment.

The safety switch shall be:

- Lockable in the open and closed position
- Accessible by TCL&P personnel on a 24/7 basis
- Of visible load break capability
- Located outside within five feet of the metering point (as allowed by code)

Permits:

The customer shall secure and maintain all necessary certificates and permits from municipal or other public authorities and comply with all national, state, and municipal laws, ordinances, and regulations as may be required.

Metering:

TCL&P shall install a bi-directional meter capable of registering the flow of energy in both directions. A monthly meter service fee may be charged to the customer. TCL&P shall own, operate, and maintain all required billing metering equipment.

Customer Credits and Billing:

If the electricity supplied by TCL&P exceeds the electricity generated by the customer during the monthly billing period, or any portion thereof, then the customer shall be billed the tariff rate under which the customer takes service for the net electricity supplied by TCL&P. In addition, the customer shall be billed any other charges billed to other customers in the same rate class for each meter.

If the electricity generated by the customer during the monthly billing period, or any portion thereof, exceeds the electricity supplied by TCL&P, then the customer:

- i. shall be billed for the appropriate Customer charge as other Customers in the same electrical tariff rate class for each meter and any other charges, such as Demand and reactive power charges and any applicable adjusting rates; and
- ii. shall be credited for the net excess kilowatt-hours generated during the billing period. The kilowatt-hour credit may be used to offset future consumption, but shall not be carried forward more than 12 monthly billing cycles.
- iii. shall grant to TCL&P without any compensation to the customer on the first billing cycle in April of each year, any unused energy (kWh) credits accumulated by the customer during a continuous twelve month period.

A customer shall be considered to be in violation of the TCL&P Net Metering Policy if the customer installs a generating facility with a nameplate capacity greater than that which was approved by TCL&P. All agreements shall immediately be void, the meter may be removed, and the project must be suspended or the customer may have the Net Metering Agreement terminated until the violation is corrected and approved by TCL&P.

All facilities existing before the adoption of this policy may be allowed to continue operating in parallel with the TCL&P distribution system with the written consent of the Executive Director.

Renewable Energy Credits (REC's) shall be owned by the customer unless stated otherwise in the Net Metering Agreement.

Edward E. Rice

Edward E. Rice
Executive Director and Secretary
Traverse City Light and Power Board

Traverse City Light and Power
 Summary of Net Metering Projects
 Updated November 10, 2015/February 2016/April 2016

Agreement Date	Address	KW	Type	Energy
10.18.2010	Old Town Parking Deck	35.8	Commercial	Solar
06.07.2011	2600 Aero Park Dr	8.2	Commercial	Solar
01.25.16	933 Rose St	10.07	Commercial	Solar
		54.07		
08.19.2014	607 Railroad Pl	7.3	Residential	Solar
07.13.2015	603 Railroad Pl	7.2	Residential	Solar
07.13.2015	605 Railroad Pl	7.2	Residential	Solar
01.14.2016	606 Station St	7.3	Residential	Solar
08.19.2014	611 Railroad Pl	7.3	Residential	Solar
07.17.2014	871 Webster	3.5	Residential	Solar
04.06.2012	2018 Arrowhead Drive	5.7	Residential	Solar
09.30.2010	414 W Sixteenth St	3.52	Residential	Solar
09.23.2014	319 N Elmwood Ave	3	Residential	Solar
08.19.2014	609 Railroad PL	7.3	Residential	Solar
		59.32		
08.30.2011	880 Parsons	5	Commercial	Wind
Total Subscribed		118.39		

SUMMARY OF NET METERING AVAILABILITY

Industrial Net Metering allowed	290
Industrial Solar actual	0
Industrial Net Metering available	290
Commercial Net Metering allowed	320
Commercial Solar actual	54.07
Commercial Wind actual	5
Commercial Net Metering available	260.93
Residential Net Metering allowed	150
Residential Solar actual	59.32
Residential Net Metering available	90.68
Total available	641.61

Other Renewable

- ** Street Lights located at West End Beach - 250 watt solar panel & 300 watt wind turbine
- ** Clinch Tunnel/Wind Solar Unit - 1 kW
- ** Solar Unit at Great Lakes Environmental Center
- ** Renewable Generator at Train Depot Building
- ** Wind turbine located at the University Center



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Pete Schimpke, Manager of Operations & Engineering
Date: April 7, 2016
Subject: LaFranier/Barlow Transmission Line Upgrade Project: Construction Bids

On Wednesday, March 30, 2016, three bids were received for construction for the LaFranier Road 69 kV Transmission Line Project and one contractor did not bid. The Bid prices are:

Vendor

CC Power	\$ 798,909.00
Kent Power	\$1,076,876.64
Newkirk Electric	\$1,457,608.12
Hydaker-Wheatlake	No Bid

For your review, attached is GRP's letter recommending Power Line Supply along with a bid tabulation. Staff concurs with GRP's recommendation to accept the bid from CC Power in the amount of \$798,909.00, and recommends the Board authorize the issuance of a purchase order for their construction services.

If after Board discussion you agree with staff's recommendation then the following motion would be appropriate.

MOVED BY _____, SECONDED BY _____

THAT THE BOARD AUTHORIZES THE CHAIRMAN AND SECRETARY TO EXECUTE A CONSTRUCTION AGREEMENT IN THE AMOUNT OF \$798,909.00 WITH CC POWER, LLC FOR THE LAFRANIER/BARLOW TRANSMISSION LINE UPGRADE PROJECT; SUBJECT TO APPROVAL AS TO SUBSTANCE BY THE EXECUTIVE DIRECTOR AND AS TO FORM BY GENERAL COUNSEL; AND FURTHER AUTHORIZES THE EXECUTIVE DIRECTOR TO APPROVE CHANGE ORDERS IN THE BEST INTERESTS OF THE UTILITY.

March 30, 2016
15-0799.01

Mr. Pete Schimpke
Traverse City Light & Power
1131 Hastings Street
Traverse City, MI 49686

**RE: LaFranier Road 69kV Transmission Line
Contractor Bid Evaluation & Recommendation**

Dear Pete:

GRP Engineering, Inc. has completed reviewing the bids submitted on March 30, 2016 for construction of the LaFranier Road 69kV Transmission Line Project. Of the four contractors solicited for bids, three (3) bids were received. CC Power LLC submitted the low bid for the project in the amount of \$798,909.00. A complete bid tabulation is attached to this letter.

CC Power LLC has submitted a complete and conforming bid including the subcontractor list. The list of subcontractors has been reviewed by TCL&P staff and no exceptions were noted. CC Power's bid is 3.5% above the cost estimate prepared by GRP Engineering, but falls well within the project contingency amount. GRP Engineering, Inc. sees no reason not to accept their bid in the full amount for this project.

Please contact me should you have any questions regarding this evaluation.

Sincerely,
GRP Engineering, Inc.



Michael P. McGeehan, P.E.
Project Manager

cc: Traverse City Light & Power
Mr. Tim Arends

BID TABULATION

OWNER:
TRAVERSE CITY LIGHT & POWER
 1131 HASTINGS STREET
 TRAVERSE CITY, MI 49686

LAFRANIER RD TRANSMISSION LINE


ENGINEER:
GRP ENGINEERING, INC.
 459 BAY STREET
 PETOSKEY, MI 49770

BIDDERS	BID SECURITY	TOTAL CONTRACTOR BASE BID PRICE	REMARKS
CC Power P.O. Box 2028 Kalkaska, MI 49646	✓ Bid Bond	\$798,909.00	Low Bid
The Hydaker-Wheatlake Company 420 N. Roth Street Reed City, MI 49677			No Bid
Kent Power 90 Spring St Kent City, MI 49330	✓ Bid Bond	\$1,076,876.64	
Newkirk Electric, Inc. 1875 Roberts Street Muskegon, MI 49442	✓ Bid Bond	\$1,457,608.12	

This is to certify that at 11:00a.m., local time on Wednesday, March 30, 2016, the bids tabulated herein were publicly opened and read.

GRP Engineering, Inc.

By:



Michael P. McGeehan, P.E.



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Tim Arends, Executive Director
Date: April 7, 2016
Subject: Garland Street Streetscapes Project

Attached for your review is a request from the City Manager for TCL&P's financial participation in the Garland Street Reconstruction Project that is planned for this summer. The City is requesting the utility financially support the street lighting elements of the project that include distribution undergrounding in accordance with TCL&P's Decorative Lighting Policy, which is attached for your review.

Also attached is the Joint Streetlight Operation & Maintenance Policy, approved by the Board and City Commission. In my determination, after discussion with TCL&P staff and the City Engineer, this particular project should be categorized as decorative street lighting. The policy for decorative street lighting requires the utility to approve, delay or disapprove of the project. If approved, the utility shall provide engineering/design services and cover the cost of underground electrical facilities. All other costs including poles, fixtures, bases, event outlets, holiday circuits, dimmers, etc. are to be paid by other parties. Of course, the Board has the right to fund projects to the extent it desires if it deems the project a benefit to the community and/or TCL&P.

Because the question has been asked, I have attached an analysis of TCL&P's participation, including funding sources, for previous street lighting expansion projects along with costs for fixtures used in those projects. As you may know, TCL&P assumed the annual costs of street lighting, at the City's request, including maintenance/replacement in 2010. The annual expense is about \$190,000. When this occurred it prompted passage of the Joint Street Lighting Operations & Maintenance Policy to govern how future projects should be funded.

Below are a few basic options for the Board's consideration to this request: (this is not all inclusive as a variety of blended options or other options can be created).

1. The Board approves funding the cost of undergrounding of distribution facilities to accommodate the street lighting elements of the project in accordance with the Decorative Lighting Policy. Fixtures, bases, dimming system, upper receptacle circuits, and lower receptacle circuits are to be paid by other sources. TCL&P will add the lights to its street lighting system and pay the monthly per light tariff rate and absorb those costs into its budget and also be responsible for their operation and maintenance.
2. The Board approves funding the cost of undergrounding of distribution facilities to accommodate the street lighting elements of the project in accordance with the Decorative Lighting Policy. The Board would like to also financially

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

support any or all of the following: The fixture costs (estimated at \$130,000); dimming system (\$18,700); upper receptacle circuits (\$23,322); lower receptacle circuits (\$22,880).

- 3. The Board denies participation in its entirety and is responsible for no costs of the project. In this case the project can proceed but would be metered separately and be billed to the appropriate party (DDA or City) similar to the private decorative lighting project in the Midtown Development.

Staff supports option #1 as that is consistent with the Decorative Lighting Policy adopted by the Board. If you agree with Staff's recommendation the following motion would be appropriate:

MOVED BY _____, SECONDED BY _____,

THAT THE BOARD AUTHORIZES AN AMENDMENT TO THE SIX YEAR CAPITAL PLAN TO INCLUDE GARLAND STREET DECORATIVE LIGHTING IN THE AMOUNT OF \$307,000, MORE OR LESS, FOR THE UNDERGROUND COSTS OF THE SYSTEM, AS REQUESTED BY THE CITY MANAGER.

The City of Traverse City

Office of the City Manager

GOVERNMENTAL CENTER
400 Boardman Avenue
Traverse City, MI 49684
(231) 922-4440
(231) 922-4476 Fax
tcmanage@traversecitymi.gov



April 6, 2016

Traverse City Light & Power Board of Directors
Attn Tim Arends
1131 Hastings Street
Traverse City MI 49686

Re: Request for Participation in Garland Street Realignment Project

Dear Chairman Taylor and Board Members,

As you may know, at the regular meeting of the City Commissioners for the City of Traverse City held on Monday, March 7, 2016, the City Commission authorized the execution of a Property Transfer and Redevelopment Agreement between the City and the Traverse City Convention and Visitor's Bureau Education Foundation. Execution of this agreement will allow the City to proceed with the proposed realignment of Garland Street as shown on the attached map, redirecting traffic away from Grandview Parkway to Union Street on the east end. This project was approved by the City Planning Commission for consistency with the City's Master Plan on July 7, 2011.

Attached is a communication dated March 30, 2016 from City Engineer, Tim Lodge, providing calculations to the allocations to the bid that are in accordance to the policy for decorative lighting. The Garland Street realignment project includes a component for lighting. Therefore, we request funding participation from TCLP in the amount of \$307,879.87 plus any portion of Item C that TCLP finds to be in the best interest of the City or Light & Power. We will continue to work with TCLP staff on identifying the appropriate light fixtures, and reimburse to TCLP in accordance to policy.

At this time, we respectfully request that the lighting component of this project be implemented as part of the Capital Improvements Plan and the Budget for Traverse City Light and Power, and that this item be placed on the agenda for the Tuesday, April 12, 2016 meeting of the Board of Directors for Traverse City Light and Power. I will be in attendance at that meeting to answer any questions the Board may have regarding the project.

Thank you in advance for your consideration in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Martin Colburn".

Martin Colburn
City Manager

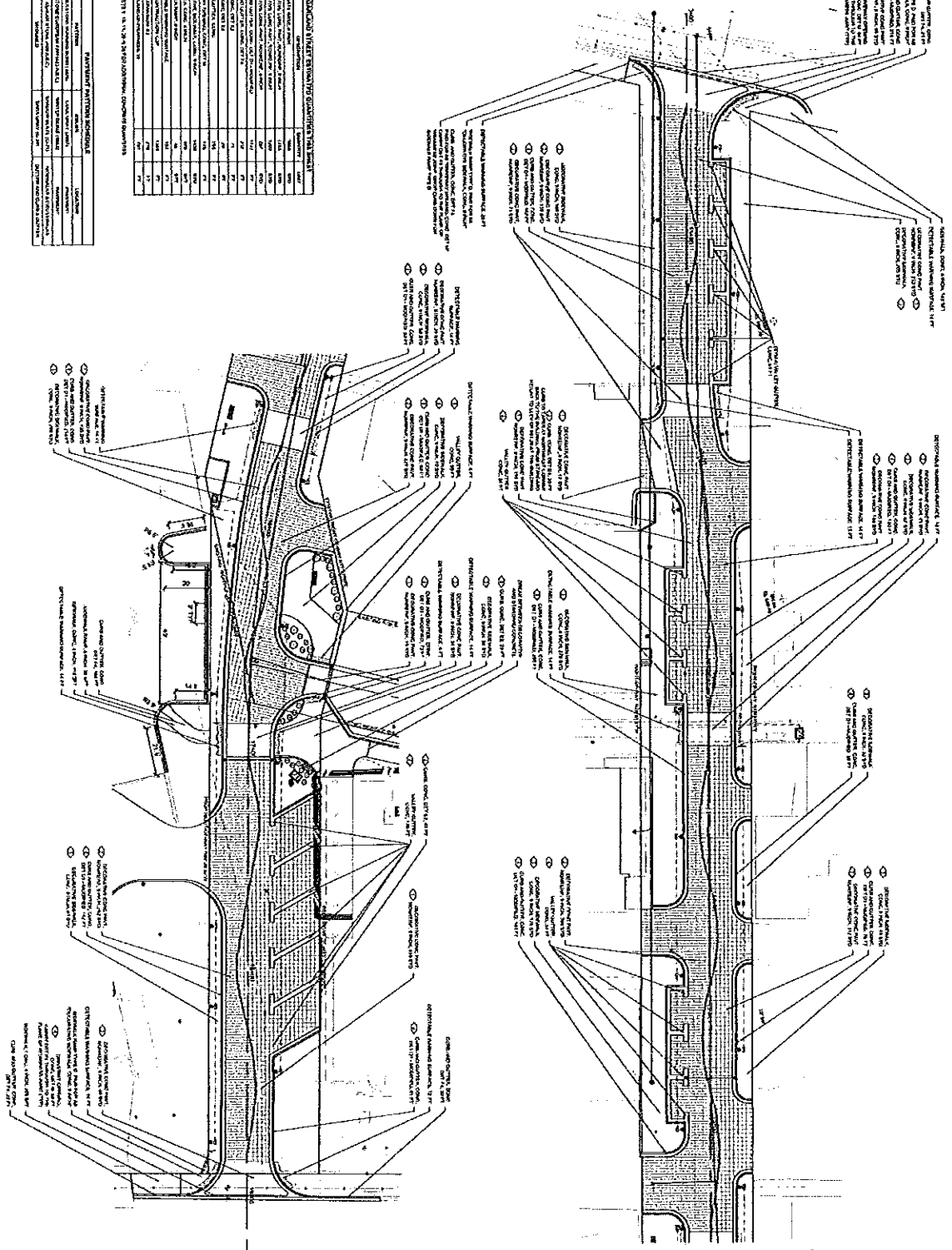
MC/jd

Attachments: Map of Garland Street Project Area
3/30/16 Memo from City Engineer, Tim Lodge

Copy: W. Twietmeyer, City Treasurer
File

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMITS	11/15/11	JL	ML
2	ISSUED FOR BIDDING	11/15/11	JL	ML
3	ISSUED FOR CONSTRUCTION	11/15/11	JL	ML
4	ISSUED FOR AS-BUILT	11/15/11	JL	ML

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMITS	11/15/11	JL	ML
2	ISSUED FOR BIDDING	11/15/11	JL	ML
3	ISSUED FOR CONSTRUCTION	11/15/11	JL	ML
4	ISSUED FOR AS-BUILT	11/15/11	JL	ML



SCALE: 1" = 4'-0"

SCALE: 1" = 4'-0"

CITY OF TRAVERSE CITY
GARLAND STREET RECONSTRUCTION/ STREETScape
 SITE CONCRETE PLAN (P.O.B. TO P.O.E.)

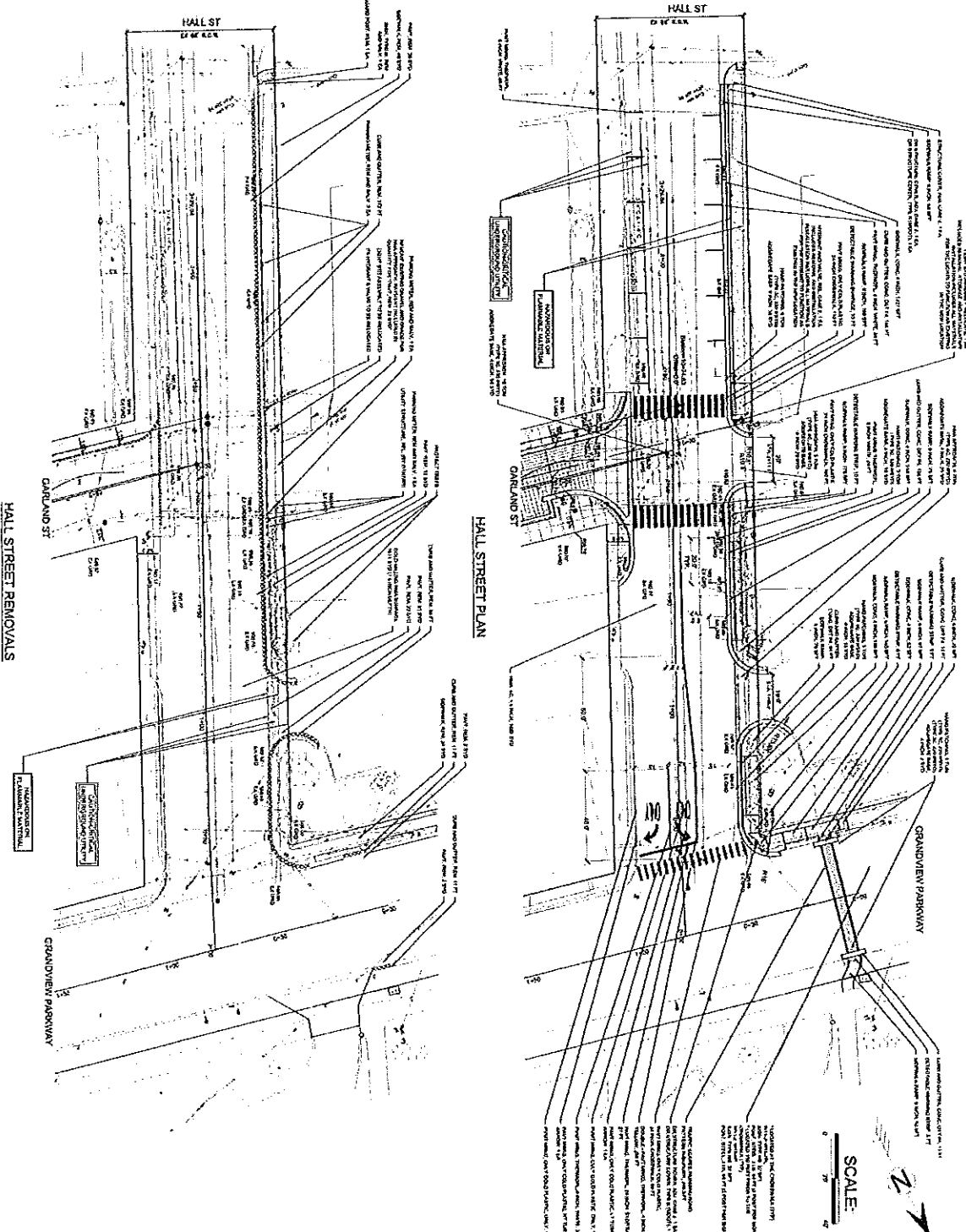
DATE: 11/15/11

BY: JL

CHECKED: ML



Item	Description	Quantity	Unit
1	CONCRETE CURB	100	LINEAR FEET
2	CONCRETE SIDEWALK	100	LINEAR FEET
3	CONCRETE DRIVEWAY	100	LINEAR FEET
4	CONCRETE DRIVEWAY	100	LINEAR FEET
5	CONCRETE DRIVEWAY	100	LINEAR FEET
6	CONCRETE DRIVEWAY	100	LINEAR FEET
7	CONCRETE DRIVEWAY	100	LINEAR FEET
8	CONCRETE DRIVEWAY	100	LINEAR FEET
9	CONCRETE DRIVEWAY	100	LINEAR FEET
10	CONCRETE DRIVEWAY	100	LINEAR FEET
11	CONCRETE DRIVEWAY	100	LINEAR FEET
12	CONCRETE DRIVEWAY	100	LINEAR FEET
13	CONCRETE DRIVEWAY	100	LINEAR FEET
14	CONCRETE DRIVEWAY	100	LINEAR FEET
15	CONCRETE DRIVEWAY	100	LINEAR FEET
16	CONCRETE DRIVEWAY	100	LINEAR FEET
17	CONCRETE DRIVEWAY	100	LINEAR FEET
18	CONCRETE DRIVEWAY	100	LINEAR FEET
19	CONCRETE DRIVEWAY	100	LINEAR FEET
20	CONCRETE DRIVEWAY	100	LINEAR FEET

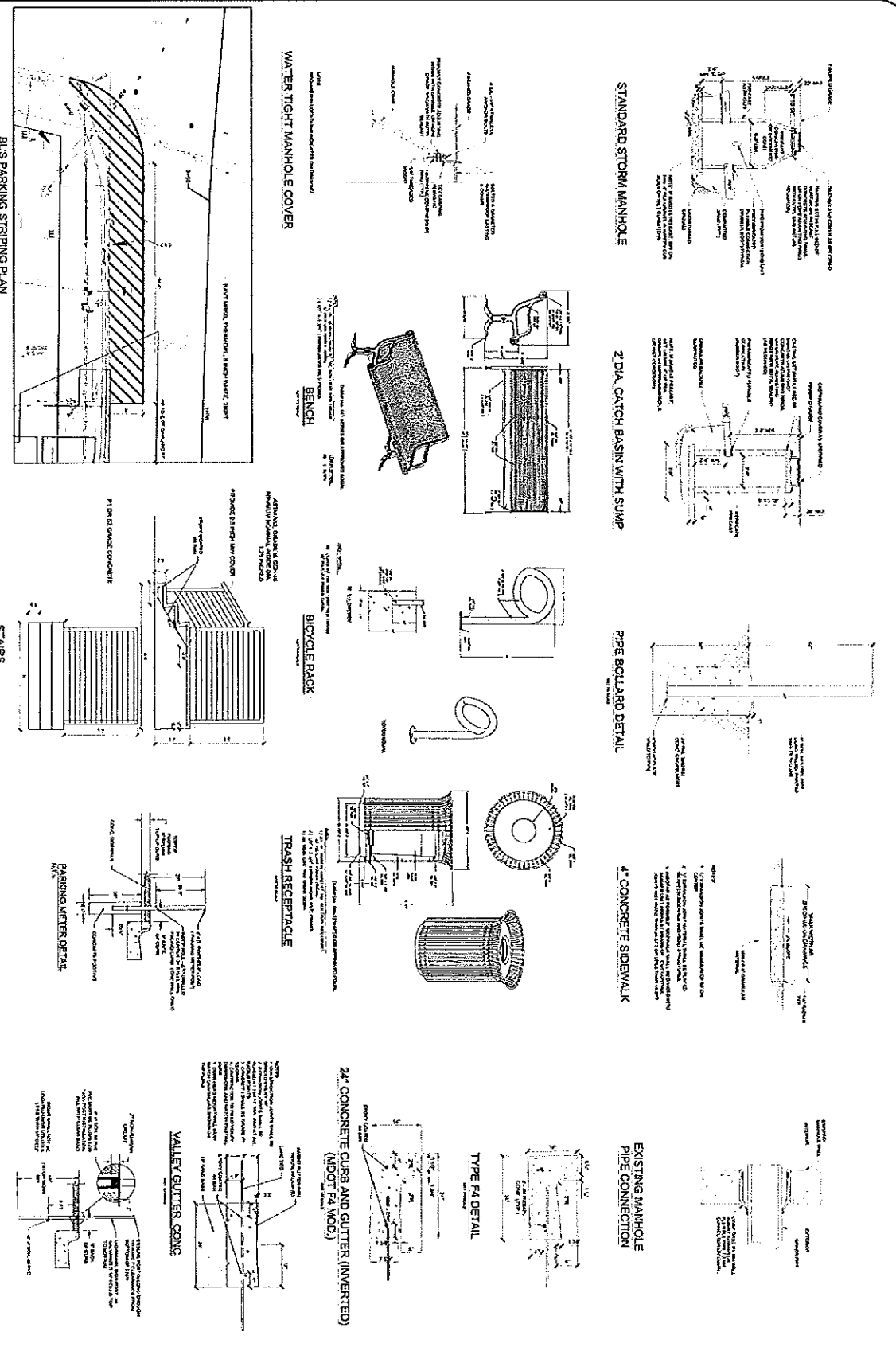


**CITY OF TRAVERSE CITY
GARLAND STREET RECONSTRUCTION/ STREETScape
HALL STREET**

F&V

DATE	DESCRIPTION
3/10/2011	REVISED
3/10/2011	REVISED
3/10/2011	REVISED
3/10/2011	REVISED

SCALE: 1" = 20'



DATE	11-20
DRAWN BY	CSB
CHECKED BY	
PROJECT	2016 GARLAND STREET RECONSTRUCTION PROJECT
SHEET NO.	11

CITY OF TRAVERSE CITY
2016 GARLAND STREET RECONSTRUCTION PROJECT
 STREET, STORM SYSTEM & SANITARY SYSTEM DETAILS



Memorandum

The City of Traverse City
Engineering Department



TO: Marty Colburn, City Manager
Rob Bacigalupi, DDA Executive Director
Tim Arends, TCLP Executive Director

FROM: Timothy J. Lodge, City Engineer

A handwritten signature in black ink, appearing to read "T. Lodge".

DATE: March 30, 2016

SUBJECT: 2016 Garland Street Reconstruction Project -Street Lighting-Update

Upon review of the March 29, 2016 Memorandum in regard to the above referenced project I found that further clarification is needed to align the request with the 2013 Decorative Lighting Policy. The policy reads that:

"Generally, Light & Power's contribution to Decorative Lighting Projects will include the cost of underground infrastructure, engineering, administration, installation charges, inspections and final closeout. The cost of fixtures, and their eventual replacement, shall be borne by the requestor or benefiting party." And "As in all lighting projects, Light & Power retains the right to self-fund projects it deems in the best interest of the City or Light and Power."

Therefore we have recalculated the portion of the project that meets the 2013 Decorative Lighting Policy as follows:

- a. Underground infrastructure including pro-rated costs (18%) for contractor mobilization, traffic control, erosion control, contractor requirements of environmental construction management plan, pavement removal and replacement, electrical/lighted related utility relocations, conduits and wiring, underground light bases, light installation charges, underground service and cabinets, hand-holes and spare conduits for future use in accordance with the attached spreadsheet and not including contingencies:

\$282,458.60
- b. Engineering for the project is \$143,800 or 9% of the construction contract amount. The pro-rated share for Decorative Lighting is calculated at 9% of \$282,421.27 or \$25,421.27.
- c. The fixture cost (\$130,000), the dimming system (\$18,700), the upper receptacle circuits (\$23,322) and the lower receptacle circuits (\$22,880) may also be considered in addition to the request.

\$194,902.00

Therefore we recommended that the City/DDA request funding participation from TCLP in the amount of \$307,879.87 plus any portion of Item C that TCLP finds to be in the best interest of the City or Light & Power.

2016 Garland Street Reconstruction Project

Location # 1 Garland St		Elmer's Crane and Dzer, Inc.		FUNDING CATEGORIES		
Item No.	Est Qty	Unit	Description of Items	Unit Price	Total Price	Elmer's Crane and Dzer, Inc. Bid Amounts
1	1.00	Lum	Multitraker (2%)	\$ 74,000.00	\$ 74,000.00	
2	1.00	Lum	Traffic Control	\$ 13,200.00	\$ 13,200.00	
3	1.00	Lum	Erosion Control Devices	\$ 35,000.00	\$ 35,000.00	
4	1.00	Lum	Contractor Responsibilities of Environmental Construction Management Plan	\$ 10,000.00	\$ 10,000.00	
5	60.00	Cyd	Non-Hex Crystallized Material Handling and Control, Ltd	\$ 50,000.00	\$ 3,000,000.00	\$ 50,000.00
6	3.00	Et	D-Structure, Rem	\$ 75.00	\$ 225.00	
7	3.00	Et	D-Structure, Abandon	\$ 4,500.00	\$ 13,500.00	
8	254.00	Fl	Sewer, Rem, Lead Pipe 24 inch	\$ 66.00	\$ 16,764.00	
9	400.00	Fl	Sewer, Abandon, Lead Pipe 24 inch	\$ 4.00	\$ 1,600.00	
10	1.00	Et	Bulkhead, 15 inch	\$ 16.00	\$ 16.00	
11	155.00	Fl	Sewer, G IV RCP, 19 inch, T, D, Bt	\$ 250.00	\$ 38,750.00	
12	719.00	Fl	Sewer, G IV RCP, 18 inch, T, D, Bt	\$ 65.00	\$ 46,735.00	
13	874.00	Fl	Video Taping Sewer Pipe	\$ 2.00	\$ 1,748.00	
14	11.00	Et	Catch Basin, 24 inch Dia, W/2 Sump	\$ 1,200.00	\$ 13,200.00	
15	10.00	Et	D-Structure, 48 inch Dia	\$ 1,850.00	\$ 18,500.00	
16	1.00	Et	D-Structure, 84 inch Dia	\$ 8,000.00	\$ 8,000.00	
17	13.00	Et	D-Structure Cover, E1-1040 (Storm)	\$ 665.00	\$ 8,645.00	
18	7.00	Et	D-Structure Cover, E1-1040 (Sewer)	\$ 1,300.00	\$ 9,100.00	
19	2.00	Et	D-Structure Cover, E1-1040 (Sewer)	\$ 740.00	\$ 1,480.00	
20	1.00	Et	D-Structure Cover, E1-1040 (Sewer)	\$ 800.00	\$ 800.00	
21	50.00	Fl	Sewer, G IV RCP, 19 inch, T, D, Bt	\$ 40.00	\$ 2,000.00	\$ 2,000.00
22	484.00	Fl	Sewer, G IV RCP, 18 inch, T, D, Bt	\$ 50.00	\$ 24,200.00	\$ 24,200.00
23	4.00	Et	Sewer, G IV RCP, 18 inch, T, D, Bt	\$ 5,000.00	\$ 20,000.00	\$ 20,000.00
24	3.00	Et	Sewer, G IV RCP, 18 inch, T, D, Bt	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00
25	380.00	Fl	Pipe Installation	\$ 15.00	\$ 5,700.00	\$ 5,700.00
26	480.00	Fl	Hydrant and Valve, Reg, Class 2	\$ 4,920.00	\$ 2,361,600.00	
27	1.00	Et	Time, Rem, 6 inch to 18 inch	\$ 500.00	\$ 500.00	
28	14.00	Et	Time, Rem, 6 inch to 18 inch	\$ 10.00	\$ 140.00	
29	444.00	Fl	Excavation	\$ 10.00	\$ 4,440.00	\$ 4,440.00
30	334.00	Fl	Excavation	\$ 10.00	\$ 3,340.00	\$ 3,340.00
31	8.00	Et	Guard Rail, Rem	\$ 125.00	\$ 1,000.00	
32	256.00	Spd	Gate Heavy HMA Surface	\$ 2.00	\$ 512.00	
33	1.00	Lum	Pier, Cleaning (ullen S1 & Hall S1)	\$ 2,400.00	\$ 2,400.00	
34	16.00	Et	Sign, Type III, Rem and Salv	\$ 25.00	\$ 400.00	
35	6.00	Et	Painting Metal, Rem and Salv	\$ 150.00	\$ 900.00	
36	1.00	Lum	Block, Trans, Rot	\$ 15,000.00	\$ 15,000.00	
37	1.00	Lum	Equipment, HVAC, Rem, Sdk, Install	\$ 4,200.00	\$ 4,200.00	
38	1.00	Lum	Heated Walkway, Connect to Ex	\$ 26,000.00	\$ 26,000.00	
39	1.00	Lum	Fire Suppression, Bell	\$ 15,000.00	\$ 15,000.00	
40	1.00	Lum	Backflow Prevention, Rte	\$ 7,500.00	\$ 7,500.00	
41	10.17	Station	Framework	\$ 5,000.00	\$ 50,850.00	
42	3704.00	Cyd	Schwanz, L.M.	\$ 18.00	\$ 66,672.00	
43	3051.00	Spd	Asphalt Base, 4 inch	\$ 4.00	\$ 12,204.00	\$ 12,204.00
44	657.00	Spd	Asphalt Base, 8 inch	\$ 10.00	\$ 6,570.00	\$ 6,570.00
45	6.00	Et	D-Structure Cover, Agi, Class 2	\$ 500.00	\$ 3,000.00	
46	3.00	Et	Gate Box, Agi, Class 2	\$ 250.00	\$ 750.00	
47	5.00	Et	Water Shutoff, Agi, Class 2	\$ 250.00	\$ 1,250.00	
48	1.00	Et	Monitoring Well Cover, Agi, Class 2	\$ 250.00	\$ 250.00	
49	1.00	Et	Structure Cover, Agi, Class 2	\$ 550.00	\$ 550.00	
50	3.00	Et	HMA, 1.5A, (220 #/SYD)	\$ 98.85	\$ 296.55	
51	45.00	Ton	HMA, 1.5A, (220 #/SYD) (Under S1 & Hall S1)	\$ 152.00	\$ 6,840.00	
52	302.00	Ton	HMA Approach	\$ 120.00	\$ 36,240.00	
53	17.00	Ton	Excavative Cover, Normal, 9 inch	\$ 130.50	\$ 2,218.50	
54	2480.00	Fl	Curbside Curb, 24 inch (Cobord)	\$ 18.00	\$ 44,640.00	
55	457.00	Fl	Curbside Curb, 24 inch (Cobord)	\$ 27.00	\$ 12,339.00	
56	21.00	Fl	Curbside Curb, 24 inch (Cobord)	\$ 27.00	\$ 567.00	
57	20.00	Fl	Curbside Curb, 24 inch (Cobord)	\$ 4.50	\$ 90.00	
58	194.00	Fl	Valley Curb, 24 inch (Cobord)	\$ 15.50	\$ 3,007.00	
59	194.00	Fl	Valley Curb, 24 inch (Cobord)	\$ 24.50	\$ 4,753.00	
60	194.00	Fl	Valley Curb, 24 inch (Cobord)	\$ 24.50	\$ 4,753.00	
61	194.00	Fl	Valley Curb, 24 inch (Cobord)	\$ 24.50	\$ 4,753.00	

2016 Garland Street Reconstruction Project

		Elmer's Crane and Dover, Inc.		FUNDING CATEGORIES			
QTY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT	WASTEWATER	LIGHTING	ENVIRONMENTAL
62	39.00	Fl	Chimney Opening, Conc. Det. 1/4 (P/Hub)	\$ 848.00			
63	676.00	Fl	Driveway Opening, Conc. Det. 2 (Colored)	\$ 23,000.00			
64	1457.00	Syd	Decorative Stairwell, Conc. 9 inch	\$ 171.00	\$ 250,861.00		
65	3227.00	Sy	Stairwell, Conc. 4 inch	\$ 4.28	\$ 13,714.75		
66	827.00	Sy	Stairwell, Conc. 8 inch	\$ 5.01	\$ 4,145.00		
67	827.00	Sy	Stairwell, Conc. 8 inch	\$ 5.79	\$ 4,777.75		
68	212.00	Fl	Decorative Warning Surface	\$ 86.00	\$ 18,232.00		
69	261.00	Fl	Decorative Back Banding	\$ 30.00	\$ 7,830.00		
70	20.00	Fl	Joint Finishes/Woodwork, D	\$ 22.00	\$ 440.00		
71	14.00	Fl	Staircase	\$ 25.00	\$ 350.00		
72	1.00	Item	Stair, Conc.	\$ 4,550.00	\$ 4,550.00		
73	374.00	Fl	Prep. Scaff. 3/8"	\$ 5.50	\$ 2,053.00		
74	70.00	Fl	Prep. Ribn Through, Conc. For Steel Post	\$ 12.00	\$ 840.00		
75	504.00	Fl	Sign, Type III	\$ 20.00	\$ 10,080.00		
76	600.00	Fl	Pair Main, Repair Div, 4 inch, White	\$ 1.78	\$ 1,068.00		
77	35.00	Fl	Pair Main, Thermog, 4 inch, White	\$ 2.00	\$ 70.00		
78	256.00	Fl	Pair Main, Thermog, 4 inch, Yellow	\$ 2.54	\$ 650.24		
79	178.00	Fl	Pair Main, Thermog, 4 inch, White	\$ 11.80	\$ 2,099.60		
80	27.00	Fl	Pair Main, Thermog, 24 inch, Stop Bar	\$ 12.50	\$ 337.50		
81	338.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 5,070.00		
82	1.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 15.00		
83	2.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 30.00		
84	210.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 3,150.00		
85	338.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 5,070.00		
86	338.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 5,070.00		
87	50.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 15.00	\$ 750.00		
88	8.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 294.00	\$ 2,352.00		
89	4.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 294.00	\$ 1,176.00		
90	8.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 294.00	\$ 2,352.00		
91	42.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 100.00	\$ 4,200.00		
92	3.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 775.00	\$ 2,325.00		
93	4.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 2,950.00	\$ 11,800.00		
94	1824.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 3.00	\$ 5,472.00		
95	40.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 3.00	\$ 120.00		
96	60.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 6.00	\$ 360.00		
97	1457.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 1.90	\$ 2,768.30		
98	20.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 1,000.00	\$ 20,000.00		
99	0.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 4,800.00	\$ 0.00		
100	26.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 500.00	\$ 13,000.00		
101	26.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 425.00	\$ 11,050.00		
102	1076.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 5.50	\$ 5,922.00		
103	2.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 6,750.00	\$ 13,500.00		
104	2.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 3,000.00	\$ 6,000.00		
105	5.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 500.00	\$ 2,500.00		
106	1020.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 6.60	\$ 6,732.00		
107	1020.00	Fl	Pair Main, Only Cold Plastic, 1 1/2 Turn Arrow	\$ 7.20	\$ 7,344.00		
BASE BID				\$ 1,574,477.15	\$ 49,304.00	\$ 284,438.90	\$ 53,750.00
Engineering				\$ 119.00	\$ 50,304.00	\$ 307,578.87	\$ 53,750.00

Item No.	Qty	Unit	Description of Items	Unit Price	Total Price
98A	26.00	Fl	Vanbilt Shaft, Stairway Arm & Luminaire Per Project Specifications	\$ 13,185.00	\$ 342,810.00
98B	26.00	Fl	Contractor Shaft, Arm & Luminaire Alternates	\$ 11,875.00	\$ 309,750.00
201	2.00	Fl	Driveway Surface	\$ 9,550.00	\$ 19,100.00
202	26.00	Fl	Upper Receivables and Canteen	\$ 897.00	\$ 23,322.00
202	26.00	Fl	Lower Receivables and Canteen	\$ 860.00	\$ 22,380.00
Engineering				\$ 119.00	\$ 50,304.00
Elmer's Crane and Dover, Inc.				\$ 1,574,477.15	\$ 1,574,477.15

Light and Power Department
City of Traverse City, MI
Adopted: June 22, 2010

**CITY OF TRAVERSE CITY AND TRAVERSE CITY LIGHT & POWER
STREET LIGHTING OPERATIONS AND MAINTENANCE POLICY**

JOINT RESOLUTION ESTABLISHING A WRITTEN POLICY REGARDING THE
OPERATIONS AND MAINTENANCE OF THE STREET LIGHTING SYSTEM WITHIN
THE JURISDICTIONAL BOUNDARIES OF THE CITY OF TRAVERSE CITY

WHEREAS Traverse City Light & Power ("TCL&P") is a component unit of the City of Traverse City and under Section 175 of the Charter for the City of Traverse City is responsible for the development, production, purchase and distribution of lighting services within the City of Traverse City as referenced in the City's Attorney opinion; and

WHEREAS pursuant to its responsibility under Section 175 of the City Charter TCL&P shall manage all aspects of the street lighting system within the City of Traverse City's jurisdictional boundaries (the "System"), including all costs of operation and maintenance. The City shall reimburse TCL&P annually an amount equal to 5% of the street lighting revenues recorded on TCL&P's financial statements; and

WHEREAS, TCL&P has the knowledge, expertise, and ability to manage and operate the System;

NOW THEREFORE BE IT RESOLVED THAT, the TCL&P Board and the City of Traverse City adopt the following written policy regarding the operations and maintenance of the System as follows:

1. Street Lighting Defined. A lighting system consisting of one or more luminaries with the intended use for public roadway lighting that is open to the State of Michigan or any political subdivision or agency having jurisdiction over public streets or roadways. No private property applications would be considered part of the System.
2. Engineering & Design. TCL&P shall be responsible for the engineering and design of the System including any new additions. When appropriate, TCL&P shall coordinate installation/replacement of any new or existing street lighting services with the appropriate city department(s).
3. Charges for Service. The charges for street lighting services shall be charged to the appropriate local unit of government in accordance with the tariff rates established by TCL&P. For street lights within the System TCL&P is the appropriate local unit of government.

4. Addition of Street Lights. Any additions to the System shall be at the sole discretion of TCL&P. In the event that the City requests an addition to the System, such request shall be made by the City Manager or his or her designee and the City will agree to pay a one-time fee per light as agreed to by the parties. In all cases TCL&P retains the right to self fund lighting projects it deems in the best interests of the community or the Light & Power Department.
5. Decorative Street Lighting. Public decorative street lighting shall be available along public streets including neighborhoods and business districts; the process for obtaining approval of a new decorative lighting project shall be governed by the TCL&P Decorative Street Lighting Policy.
6. Security Lighting. From time to time citizens may request that lighting be installed in a public right of way, such as an alley, for security reasons. These private party requests shall be directed to the City Police Department who may recommend to the City Manager that lighting be installed. This type of lighting shall be subject to the Private Area Lighting Rate or "Security Lighting" offered by TCL&P. Monthly fees for this service shall be billed to the appropriate unit of government, or to the requesting party as directed by the City Manager, through the utility billing system. TCL&P shall not be considered the appropriate unit of government for this type of lighting.
7. Removal. The removal of street lights shall be the responsibility of TCL&P. Any City request to remove street lights shall be made in writing by the City Manager. Any liability that may arise as a result of the removal of street lighting as requested by the City shall be the responsibility of the City.

Edward E. Rice

Edward E. Rice
Executive Director and Secretary
Traverse City Light and Power Board

I hereby certify that the above Resolution was adopted at the June 21, 2010, Regular Meeting of the City Commission held in the Commission Chambers, Governmental Center, 400 Boardman Avenue, Traverse City, MI 49684.

Debbra A. Curtiss

Debbra A. Curtiss, City Clerk

Light and Power Department
City of Traverse City, MI
Adopted: November 13, 1990
Amended: June 11, 2013

DECORATIVE LIGHTING POLICY

TO PROVIDE guidance to the Department in facilitating the development of Decorative Lighting Projects within the utility service area for Traverse City Light & Power Board consideration of approval. Further, to define ownership, operation & maintenance, system replacements, and funding options.

DECORATIVE LIGHTING DEFINED: A system consisting of one or more luminaries where the Department has an existing distribution system with secondary voltage available that is defined as an approved decorative lighting style under the “MATERIALS/EQUIPMENT” section of this policy, or is otherwise approved as a decorative lighting style by the Executive Director. There are three types of decorative lighting systems within the community: Residential/neighborhood, Pedestrian/trail, and Commercial Districts. This policy covers only those projects that provide lighting in public areas or within the public right-of-way that are accessible to the general public. Projects within private developments and/or on private property shall be privately designed, constructed, and owned. Light & Power shall meter and bill private development projects at Board approved tariff rates.

LIGHTING SPECIFICATIONS: The Department shall design, furnish, install, and own all equipment and infrastructure comprising the decorative lighting system. Specifications will be in compliance with City of Traverse City Master Plan Urban Design Element, along with City of Traverse City regulations for lighting levels, if any. Environmental concerns and energy use are some of the factors that will be considered to limit the amount of lighting. Lighting will be installed to Department specifications, which will be regularly updated as technologies advance.

MATERIALS/EQUIPMENT: Poles and fixtures used for decorative lighting must be approved for use by the Executive Director. Approval will be based on operation, maintenance, conservation, and cost criteria. There are 2 styles of decorative fixtures that are currently approved: the acorn and the candy cane. The acorn is used in both residential and commercial districts; while the candy cane is used in the commercial districts. Fixtures other than styles supported by the Department will require approval by the Executive Director and may subject the requestor(s) to reimbursing the utility for any additional costs, including the cost of maintaining an appropriate level of inventory for repairs and/or replacement equipment and fixtures.



Candy Cane



Acorn

INSTALLATION PROCESS: This section will address when Decorative Lighting Systems will be installed and/or upgraded, the end of the service life, cost of replacement, and the approval process.

- a) **Installation/Upgrades:** Every effort will be made to install and/or upgrade Decorative Lighting Systems in conjunction with the City's plans for street reconstruction. During the annual Capital Planning Process, it is requested that the City Manager provide a written request to the Department's Executive Director on any City projects that will or could require decorative lighting additions/replacements. Additionally, the Department shall notify the City Manager in writing of any systems that are scheduled for replacement well in advance for City Capital Planning purposes.

It is anticipated that the City and the Department will work together to minimize project costs and to reduce the inconvenience/disruption to residents, businesses and visitors.

The Light & Power Board retains the right to deny or delay participation in any project.

- b) **End of Service Life:** The lighting infrastructure that the Department installs is designed to last approximately 20 to 30 years. At some point the cost to maintain the system becomes more than its present value and/or safety concerns have resulted in the infrastructure reaching the end of its usable service life. The end of service life will be determined by the Department's Executive Director. The end of service life shall not occur before all street lighting assessments are paid in full. When the end of service life is reached the Department may schedule its replacement in its Six Year Capital Improvements Plan for approval by the Board and City Commission. Approval of the Plan will determine that the system will be replaced. If the project is not approved the system will be scheduled for removal.
- c) **Cost of Replacement:** The Decorative Lighting System shall be owned, operated and maintained by the Department. Replacement of the system shall occur as follows:

- The related underground systems will be replaced, as required, with the entire cost borne by the Department. The underground distribution system supporting the Decorative Lighting System becomes part of the Departments overall distribution system upon its installation, and it shall be maintained and replaced in the same manner as any other underground distribution system.
 - The above ground equipment/fixtures shall be replaced with the cost of the equipment/fixture paid by the benefiting party. This can be done through special assessments, Tax Increment Financing, bonds, City Capital Projects Fund, or any other funding mechanism that reimburses the utility for the cost of the replacement fixtures/equipment. Whatever form of reimbursement is used, including the timeframe for reimbursement to the utility will be presented to the Board at the time the Board considers approval of the purchase or replacement equipment/fixtures.
 - The Light & Power Board retains the right to self-fund any project it deems in the best interest of the City or Light & Power.
- d) Approval Process: Time permitting; all Decorative Lighting Projects shall be included in the Light & Power Six Year Capital Improvements Plan (the “Plan”). The Plan will have been approved by the Light & Power Board, City Planning Commission and City Commission.

Initiation of a Decorative Lighting Project can be from either the City, Downtown Development Authority, neighborhood organization, or other interested parties. With approval of the Executive Director, staff will prepare conceptual plans and cost estimates for inclusion in the Plan (the cost estimate will separate the cost of fixtures, underground infrastructure and installation charges.) If outside of the Plan timing process, these conceptual plan and cost estimates shall be forwarded to the Board for consideration of participation in the project, along with a recommendation from the Executive Director.

Upon Board approval of the Plan, staff (or other party if by agreement) shall commence with engineering, design, and preparation of bid packages in coordination with the City or other party(s) so that Light & Power staff is prepared to seek bids in a timely manner for the project. Actual bids shall be submitted to the Board for final approval, as required by the Purchasing Policy.

The Department reserves the right to delay approved decorative lighting projects due to other priorities, at the discretion of the Executive Director.

FUNDING: The cost of a Decorative Lighting Project includes fixtures, underground infrastructure, engineering, administration, design, installation, inspection, and final closeout. Generally, Light & Power’s contribution to Decorative Lighting Projects will include the cost of underground infrastructure, engineering, administration, installation charges, inspections, and final closeout. The cost of fixtures, and their eventual replacement, shall be borne by the

requestor or benefiting party.

- a) Decorative Lighting with Street Reconstruction Projects: Decorative lighting will be installed as part of a street reconstruction project at the request of the City and as approved by the Board. Decorative light fixtures will be purchased and installed by Light & Power. The cost of the fixtures shall be reimbursed to Light & Power as approved by the Board. Funding may come from the City's Capital Improvements Fund, TIF Funds, Grants, special assessments, or other funds.
- b) Decorative Lighting Stand Alone Projects: Decorative lighting can be installed in advance of street reconstruction or along designated recreation/pedestrian trails in the public right-of-way. Decorative light fixtures will be purchased and installed by Light & Power. The cost of the fixtures shall be reimbursed to Light & Power as approved by the Board. Funding may come from the City's Capital Improvements Fund, TIF Funds, Grants, special assessments, or other funds.
- c) Operation and Maintenance Costs: Decorative lighting that has been installed in the public right-of-way and to Light & Power standards (lighting levels and equipment used) will be owned by the utility. The operation and maintenance costs for decorative lighting are borne by Light & Power in accordance with the City of Traverse City and Traverse City Light & Power Street Lighting Operations and Maintenance Policy adopted on June 22, 2010.

As in all lighting projects, Light & Power retains the right to self-fund projects it deems in the best interests of the city or Light & Power.

This policy supersedes and replaces the Decorative Street Lighting Policy adopted on November 13, 1990, and all other policies in conflict with this policy.

Timothy J. Arends

Timothy J. Arends,
Executive Director and Secretary
Traverse City Light and Power Board



Traverse City Light & Power
Special Assessment Recap

Special Improvement District 91-01

Description:

Residential Pedestrian Lighting in all streets between the alley south of Front Street and alley north of Eighth Street from Boardman Avenue to Railroad Avenue.

Cost: \$100,635.00

Interest Rate:

0% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 20

Other Notes:

City charged \$112.67 per month for energy and bulb replacement for 54 fixtures. Total cost of the project was \$124,266.60, overspent relating to future inventory used to repair bulbs, globes and et cetera.

Special Improvement District 93-01

Description:

Residential Pedestrian Lighting Oak Park Neighborhood.

Cost: \$218,400.00

Interest Rate:

0% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 20

Other Notes:

LP Board approved request for Oak Park Lighting Project with a cost roughly of \$218,400 (80%) to be repaid in annual installments by property owners - \$174,720 through the SID process over twenty years at no interest. LP board approved the request for Oak Park Lighting Project with twenty percent of the cost by the City - \$43,680 over twenty years in equal annual installments with no interest.

Special Improvement District 94-01

Description:

Streetscape project including new sidewalks and curbs with brick trim, pedestrian lighting, crosswalks, street overlay, and trees in and along the following named streets – Union Street from Front Street south to Union Street bridge to south Cass Street bridge, State Street from Cass Street then west 132 feet.



Cost: \$555,815.95

Interest Rate:

6% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 10

Other Notes:

Found letter of support for \$200,000 street lighting from 1989 board minutes. Approval was granted by the Light and Power Board on March 27, 1990 for a total cost of \$215,532. Contracted labor \$65,000, Material \$139,063, Internal Labor \$9,869 and Internal Equipment \$1,600 less DDA funding for outlets of \$16,000 for a remaining cost of \$199,532.

Special Improvement District 94-02

Description:

Streetscape project including new sidewalks and curbs with brick trim, pedestrian lighting, crosswalks, street overlay, and trees in and along the following named streets – Union Street from south Union Street Bridge to 9th Street.

Cost: \$467,120.00

Interest Rate:

6% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 10

Other Notes:

LP approved on 4/12/94 providing decorative lighting for the Streetscape II approximate cost \$234,400 (Union and Cass Street) project subject to the DDA paying \$48,000 for Xmas lighting circuits and the City paying \$1,191.36 per month lighting costs.

Special Improvement District 96-03

Description:

Residential Pedestrian Lighting – Oak Heights Neighborhood – Lincoln Street, Boyd Avenue, Rose & Fern Streets in the area between the alley south of Eighth Street and the railroad right of way and between the alley west of Garfield Avenue to the alley west of Rose Street.

Cost: \$60,916.00

Interest Rate:

0% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 20



Other Notes:

City cost \$12,183 and Owners cost \$48,732

Special Improvement District 96-04

Description:

Residential Pedestrian Lighting – Central Neighborhood – 5th, 6th, 7th, 8th Street and Pine Street, Wadsworth Street, S. Oak Street and S. Maple Street in the areas between the alley north of 5th Street and the alley south of W. 8th Street and the area between Division Street and Locust Street except for 6th Street east of Wadsworth.

Cost: \$198,229.56

Interest Rate:

0% or at a rate not in excess of 1% of a rate of interest borne by bonds that may be issued for SID

Number of Installments: 20

Other Notes:

City cost \$39,646 and Owners cost \$158,584

Street light fixture/pole costs:

Candy Cane (downtown).....\$2,620.30 (paid by monthly rates/light to city....until those costs were transferred to TCL&P in 2010)

Acorn (Neighborhoods).....\$2,144.00 (paid by special assessments)

Silver Drive (Commons).....\$2,293.49 (100% paid by TCL&P for 17 fixtures)

West Front Street (includes installation costs and foundation bases)

Type A - \$4,014.95 (High level)


Type B - \$5,045.24 (Low level – single fixture)

Type C - \$7,328.03 (Low level - double fixture)

Garland Street (proposed).....\$5,000 (26 fixtures = \$130,000)



TRAVERSE CITY
LIGHT & POWER

To: Light & Power Board
From: Tim Arends, Executive Director 
Date: April 4, 2016
Subject: Cass/Lake & Park Street Streetscapes Projects

Attached for your review is a request from the City Manager for TCL&P's approval of and financial participation in the Cass/Lake & Park Street Streetscape Projects that are planned for 2016-17. The City is requesting that the utility financially support the projects in accordance with the Decorative Lighting Policy in the estimated amount of \$450,000.

The previous agenda item included the pertinent information needed by the Board in evaluating this request. The Decorative Lighting Policy identified the Board's policy regarding the utility's financial participation for decorative lighting expansion in the City. Staff has determined that both of these projects fall under that policy.

If the Board approves the projects to expand the street lighting in these areas, the utility would be responsible, by policy, for the distribution underground and design engineering of those projects. The poles, fixtures, bases, dimmers, decorative lighting circuits and event outlets would be the financial responsibility of other parties.

A point of clarification for you from the City Manager's memo: While TCL&P did have these projects listed in its Six Year Capital Plan in prior years, it was noted in the Plan that the funds would come from special assessments of the benefiting property owners. Those projects were all removed in the current year's Plan due to a lack of specific information and costs. The lack of those specifics impaired the Board's ability to support their inclusion. The removal of those projects should not be construed to mean the Board did not support any individual project or the utility's intent to financially participate in any project. There simply was not enough substantive information for the Board to support inclusion.

At this time, there is no detailed information from the City on the cost of overhead vs. underground for these projects. Inclusion of a project in the Capital Plan does NOT mean approval by the Board. Staff anticipates the City will present schematic designs (when completed) that will indicate the character and extent of the project with engineering cost estimates before the project is bid out and approved by the City Commission, or other public bodies, to gain the Board's approval of the project and funding level commitment of TCL&P.

(SUGGESTED MOTION ON FOLLOWING PAGE)

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

Considering that the City intends to complete these projects in the 2016-17 fiscal year Staff recommends that the Board amend its 2016-17 Capital Improvements Plan to include Cass/Lake Streets and Park Street decorative lighting projects for the underground portion of those projects, consistent with the Board’s policy regarding extensions of decorative lighting within the city.

If you agree with Staff’s recommendation the following motion would be appropriate:

MOVED BY _____, SECONDED BY _____,

THAT THE BOARD AUTHORIZES AN AMENDMENT TO THE SIX YEAR CAPITAL PLAN TO INCLUDE CASS/LAKE STREETS AND PARK STREET STREETCAPES PROJECTS FOR THE UNDERGROUND LIGHTING ELEMENTS OF THOSE PROJECTS, IN ACCORDANCE WITH THE DECORATIVE LIGHTING POLICY.

The City of Traverse City

Office of the City Manager

GOVERNMENTAL CENTER
400 Boardman Avenue
Traverse City, MI 49684
(231) 922-4440
(231) 922-4476 Fax
tcmanage@traversecitymi.gov



April 6, 2016

Traverse City Light & Power Board of Directors
Attn Tim Arends
1131 Hastings Street
Traverse City MI 49686

Re: Request for Participation in Cass Street/Lake Street Streetscape Improvements Project and the Park Street Streetscape Project

Dear Chairman Taylor and Board Members,

The City of Traverse City has two streetscape projects that are anticipated to be implemented in the 2016-2017 Budget year; specifically the Cass Street/Lake Street Streetscape Improvements Project and the Park Street Streetscape Project. Both projects include public lighting components at an estimated cost of Three Hundred Fifty Thousand dollars (\$350,000) and One Hundred Thousand dollars (\$100,000), respectively.

These costs will be further refined through a collaborative effort with Traverse City Light and Power as we get closer to project implementation. As you may be aware, the City provides opportunities for public input regarding the design of future streetscape projects, which includes public input relating to the lighting components of those projects and has a bearing on the cost of each project. Each project has been included in the Capital Improvements Plan for both the City and Traverse City Light and Power in past years. For purposes of reference, these are listed as Project #61 (Cass/Lake) and Project #18 (Park) in the City of Traverse City CIP.

In accordance with the Decorative Lighting Policy adopted by the Traverse City Light & Power Board on June 11, 2013, we respectfully request that the lighting components of these projects be implemented as part of the Capital Improvements Plan and included in the FYE 06/30/2017 Budget for Traverse City Light and Power. I will be in attendance at that meeting to answer any questions the Board may have regarding these projects.

Thank you in advance for your consideration in this matter.

Sincerely,

Martin Colburn
City Manager

MC:ph

Copy: W. Twietmeyer, City Treasurer
File

Cash Flow Forecast - Market Value of Assets - 10 year amortization

Receipts	Fiscal Year:							
	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
Charges for Services	34,396,799	31,775,100	33,887,000	34,564,740	35,256,035	35,961,155	36,680,379	37,413,986
Other Operating Revenues	2,746,790	3,922,700	3,204,900	3,268,978	3,334,378	3,401,066	3,469,087	3,538,469
Non Operating Revenues	544,543	484,200	369,200	376,584	384,116	391,798	399,634	407,627
Transfers in	-	175,000	175,000	175,000	150,000	150,000	150,000	150,000
Total Receipts	37,688,132	36,356,500	37,636,100	38,385,322	39,124,528	39,904,019	40,699,099	41,510,081
Payments								
Generation Expense	22,855,173	22,851,250	24,077,650	24,559,203	25,050,387	25,551,395	26,062,423	26,583,671
Distribution Expense	3,530,929	4,011,750	3,886,250	3,963,975	4,043,255	4,124,120	4,206,602	4,290,734
Transmission Expense	406,584	401,300	437,000	445,740	454,655	463,748	473,023	482,483
Metering & Customer Accounting	568,692	548,050	559,350	570,537	581,948	593,587	605,458	617,568
Conservation & Public Service	513,302	607,520	486,000	495,720	505,634	515,747	526,062	536,583
Administrative & General	834,938	946,950	1,187,800	1,211,556	1,235,787	1,260,503	1,285,713	1,311,427
Insurance	57,875	63,000	65,500	66,810	68,146	69,509	70,899	72,317
City Fee	1,863,259	1,790,000	1,870,000	1,907,400	1,945,548	1,984,459	2,024,148	2,064,631
GSB 68 Adjustment	(383,350)	(490,284)	775,330	790,837	806,654	822,787	839,242	856,027
Capital Investments	6,214,308	6,137,000	7,746,500	8,186,000	4,800,000	4,090,000	4,275,000	4,250,000
Additional Street Lighting Projects	-	307,880	450,000	-	-	-	-	-
Total Payments	36,461,710	37,174,416	41,541,380	42,197,778	39,492,013	39,475,854	40,368,571	41,065,442
Cashflow Surplus/Deficit (-)	1,226,422	(817,916)	(3,905,280)	(3,812,456)	(367,485)	428,165	330,529	444,639
Opening Cash & Investments Balance	21,091,983	22,318,405	21,500,489	17,595,209	13,782,753	13,415,268	13,843,433	14,173,962
Closing Cash & Investments Balance	22,318,405	21,500,489	17,595,209	13,782,753	13,415,268	13,843,433	14,173,962	14,618,601
Reserved Cash & Investment Balance	9,200,000	9,350,000	9,525,000	9,700,000	9,800,000	9,900,000	10,000,000	10,400,000
Unreserved & Undesignated Cash & Investment Balance	13,118,405	12,150,489	8,070,209	4,082,753	3,615,268	3,943,433	4,173,962	4,218,601

Notes and Assumptions

Trust fund will be depleted at end of fiscal year and power cost recovery will increase revenues by \$1,000,000 in 2016-17
 Load growth increase of .5% per year
 General inflation increase of 2% year
 Estimated increased in purchase power (generation cost) of 2% year and increase in charges for services at 1.5% to cover increase in generation costs through the power cost recovery rate



**TRAVERSE CITY
LIGHT & POWER**

To: Light & Power Board
From: Karla Myers-Beman, Controller *KMB*
Date: April 6, 2016
Subject: Project Close Outs

As part of the Strategic Plan, staff as a goal to provide progress financial updates to the Board throughout the duration of a project, as well as provide a project close out report upon completion of a project.

The following are the financial close out reports for the South Side Distribution Substation, West Side Transmission Line Upgrade and Wayne Street Distribution Line Rebuild, and Hickory Hills Distribution Underground Projects. Each spreadsheet that is included provides the budget authorized through the project authorization compared to actual, along with a contractual amount compared to actual.

SOUTH SIDE DISTRIBUTION SUBSTATION

This project span was over two administrations and the resources are not available for staff to provide reasoning for the variances from actual to budgeted numbers. Staff brought authorization for contracts and purchase orders for these expenditures primarily at the April 22, 2014 board meeting. Overall the project came in over budget by \$1,235,646.

WEST SIDE TRANSMISSION LINE UPGRADE

Overall the project came under budget by \$335,517. Following are some reasons for the differences:

- Tree trimming came in over budget by \$106,301 because of the unknown impact of the special restrictions of accessing the right-of-way through the gate located off Randolph Street and chipping all debris and broadcasting the chips within the right-of-way (including wood) with a tracked wood processor.
- The construction contract came in under budget by approximately \$171K with the bids ranging from \$612,959 to \$2,041,031. It was assumed the variance on the bid submissions was caused from current workloads of contractors during that time frame.
- Design engineering came in under budget by approximately \$74K resulting from the engineering firm's ability to utilize previous work when this project was in preliminary stages in the past by the utility.
- Wood poles came in under budget through the bid process. All bids were relatively close, ranging from \$217K - \$227K.

FOR THE LIGHT & POWER BOARD MEETING OF APRIL 12, 2016

Materials came in over contract because transmission inventory that had been in stock from previous projects was utilized as these types of items do not need to be at those stocking levels for day to day operations.

WAYNE STREET DISTRIBUTION LINE REBUILD

Overall the project came in under budget by \$8,891. The only item of significance is that GRP Engineering, Inc. did not invoice us for engineering services for this project.

HICKORY HILLS DISTRIBUTION UNDERGROUND

Overall the project came in over budget by \$35,285, primarily resulting from a change order in the construction contract. The reasoning for the change order was due to the increase in directional boring by 478 feet to save vegetation at the low and wet area, the replacement of street and parking lot lights on Randolph Street and in Hickory Hills, and the splicing of existing underground cable.

Traverse City Light and Power
 South Substation
 April 2016

Project Name	South Substation					
Sum of Amount	Column Labels	Cash outlay	Contract	Over (Under) Budget	Over (Under) Contract	
Row Labels	Budget					
Contingency	267,000.00			(267,000.00)		-
Legal		35,198.40		35,198.40		-
Miscellaenous		12,234.76		12,234.76		-
Transformers	1,000,000.00	1,241,409.00	1,241,409.00	241,409.00		-
T&D Material	573,000.00	1,019,292.78	953,848.98	446,292.78		65,443.80
T&D Construction	416,000.00	623,352.83	620,356.15	207,352.83		2,996.68
Property	25,000.00	22,688.00		(2,312.00)		
Relaying/Control Panels	82,000.00	96,930.00	96,930.00	14,930.00		-
Engineering/Design/Const Management	290,000.00	332,572.76	290,000.00	42,572.76		42,572.76
Substation Construction Contract	790,000.00	1,286,228.30	1,304,760.00	496,228.30		(18,531.70)
Circuit Breakers	98,000.00	69,700.00	69,700.00	(28,300.00)		-
15kv Reclosers	100,000.00	78,316.00	78,316.00	(21,684.00)		-
Circuit Switcher	48,000.00	69,570.00	69,700.00	21,570.00		(130.00)
Internal labor/equipment		37,153.24		37,153.24		-
Grand Total	3,689,000.00	4,924,646.07	4,725,020.13	1,235,646.07		92,351.54

Traverse City Light and Power
 West Side Transmission Line Project
 April 2016

Project Name		West Side Transmission Line					
Sum of Amount	Column Labels	Budget	Cash outlay	Contract	Over (Under) Budget	Over (Under) Contract	
Row Labels							
Tree Trimming		50,000.00	156,301.24	132,000.00	106,301.24	24,301.24	
Staking and Inspections		67,000.00	63,889.87	71,500.00	(3,110.13)	(7,610.13)	
Laminated Wood Poles		40,000.00	51,173.00	51,173.00	11,173.00	-	
Materials		118,110.00	118,414.88	33,526.29	304.88	84,888.59	
Construction Contract		749,150.52	577,694.50	605,324.50	(171,456.02)	(27,630.00)	
Contingency		200,000.00			(200,000.00)	-	
Legal			2,005.00		2,005.00	-	
Design Engineering		133,000.00	74,127.36	68,000.00	(58,872.64)	6,127.36	
Wood Poles		270,250.00	217,495.50	217,760.00	(52,754.50)	(264.50)	
Miscellaneous			1,075.15		1,075.15	-	
Internal Labor/Equipment			4,435.91		4,435.91	-	
Wire & Optical Wire		104,800.50	130,181.67	130,980.10	25,381.17	(798.43)	
Grand Total		1,732,311.02	1,396,794.08	1,310,263.89	(335,516.94)	79,014.13	

Traverse City Light and Power
 Wayne Street Distribution
 April 2016

Project Name		Wayne St Distribution					
Sum of Amount Row Labels	Column Labels Budget	Cash outlay	Contract	Over (Under)		Over (Under) Contract	
				Budget	Contract		
Construction Contract	42,000.00	44,862.00	44,862.00	2,862.00		-	
Contingency	7,800.00			(7,800.00)		-	
Engineering/Design/Const Management	5,200.00			(5,200.00)		-	
Materials	14,400.00	15,646.93		1,246.93		-	
Internal Labor/Equipment		1,315.46		1,315.46		-	
Grand Total	69,400.00	61,824.39	44,862.00	(8,891.07)		-	

Traverse City Light and Power
 Hickory Hills
 April 2016

Project Name Hickory Hills Underground services

Sum of Amount Row Labels	Column Labels		Cash outlay	Contract	Over (Under)	
	Budget	Budget			Budget	Contract
Construction Contract	55,310.00	103,407.00	103,705.75	48,097.00	(298.75)	
Contingency	19,000.00			(19,000.00)	-	
Customer purchase	57,859.00	57,859.00	57,859.00	-	-	
Engineering/Design/Const Management	19,000.00	11,008.02		(7,991.98)	-	
Legal		2,537.00		2,537.00	-	
Materials	70,250.00	81,893.74	50,858.61	11,643.74	31,035.13	
Grand Total	221,419.00	256,704.76	212,423.36	35,285.76	30,736.38	



TRAVERSE CITY
LIGHT & POWER

1131 Hastings Street
Traverse City, MI 49686
(231) 932-4543
stvardek@tclp.org

Request
"Public Comment – Reserved"

Traverse City Light & Power Board of Directors
Department of the City of Traverse City
Regular Meeting

Please Print or Type

I, Ann Rogers, representing NMEAC, Groundwork, s & Mi Climate Action Network, pursuant to Light & Power Board Rule 11 (see below), request to be placed under the "Public Comment – Reserved" on the Agenda of the Regular Meeting scheduled for Tuesday, April 12, 2016.

I understand that up to 15 minutes is allowed for ^{our} my presentation.

We wish to address the Board regarding the following matter:

We wish to review for TCLP what our groups have been doing over the last 7 years to learn, educate and advocate for renewable green energy, in particular solar, for our area,

Ann Rogers
Signature

Mar. 28, 2016
Date

1236 Peninsula Dr. 49686
Address

946-9643
Daytime Phone

TC
City/Township

Light and Power Ratepayer: City Taxpayer:

Regular meetings are held the 2nd and 4th Tuesday's of each month at 5:15 pm.
Please return to the Executive Director no later than Tuesday, 5:00 pm, the week prior to your requested date.

Thank you,
Stephanie Tvardek
Administrative Assistant