

Bid Date: **Wednesday, February 26, 2020**  
Bid Time: **11:00 a.m.**

Client: **Traverse City Light & Power**  
Project Name: **Aero Park Underground  
Electrical Cable & Equipment  
Installation**  
Project No.: **19-1026.01**  
Issue Date: **February 17, 2020**

NOTICE:

**Bidder will acknowledge receipt of this Addendum by returning signed & dated copy with the Bid Form.**

This Addendum to the drawings and specifications for the above captioned project supersedes all contrary and/or conflicting information on said drawings and specifications, which are hereby amended in certain particulars, as follows:

PRE-BID MEETING INFORMATION

1. Pre-bid meeting minutes and sign-sheets are issued with this addendum.
2. Information provided in the meeting minutes is incorporated into the Construction Contract via this Addendum.

OWNER-FURNISHED MATERIAL INFORMATION:

1. TCL&P will furnish the substation steel riser stand required in Bid Alternate #1.

PROJECT CLARIFICATIONS:

1. Bid Evaluation
  - a. TCL&P will accept partial bids submitted for Bid Alternate #1.

\_\_\_\_\_  
Bidder

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

Meeting Date: **February 6, 2020**  
Time: **10:00am**  
Location: **TCL&P Offices**  
From: **Michael P. McGeehan**  
Subject: **Pre-bid Meeting**

Client: **Traverse City Light & Power**  
Project Name: **Aero Park Underground**  
Project No.: **19-1026.01**  
Issue Date: **February 17, 2020**

Attendees: **GRP Engineering, Inc.**  
**Michael McGeehan**

Distribution: **All Attendees**

**TCL&P**  
**Tony Chartrand**  
**Andy Bott**

**Bidders**  
Refer to Sign-in Sheets

This report will confirm those items discussed and/or reached.

1. Introductions
2. Meeting is a joint pre-bid meeting covering both construction contracts:
  - a. Conduit & Equipment Box Pad Installation
  - b. Electrical Cable & Equipment Installation

**Meeting Agenda**

3. Agenda Items
  - a. Review contract items.
  - b. Drawing review
  - c. Questions
  - d. Field Review (as needed)

**Aero Park Underground Project Scope & Schedule**

4. The Work is generally described as follows

Replacement and upgrade the existing underground electrical system in the Aero Park Industrial Park along Aero Park Dr, North Aero Park Ct, and West Aero Park Ct.

**Conduit & Equipment Box Pad Installation**

The overall scope of the work consists of approximately 10,225' of directional boring, installation of nineteen (19) equipment box pads, twenty-nine (29) handholes, plus equipment below grade grounding systems in the Aero Park Industrial Park. Cable and equipment installation, plus existing system removals will be completed by others. All site removals and restoration required for conduit, box pad, and handhole installation will be completed under this Contract. A bid

alternate for a new substation exit including 100' of open trench, 875' of direction boring, and site restoration is being requested. A second bid alternate for conduit installation for a fiber optic system is also being requested. The Contractor will be required to closely coordinate all construction activities with the Electrical Contractor and TCL&P crews.

#### Electrical Cable & Equipment Installation

The overall scope of the work consists of the installation of 10,380 feet of underground three-phase 13.8kV line in conduit installed via directional boring (by others) in the Aero Park Industrial Park. Work covered under this contract includes cable, termination, and padmount equipment installation, system testing and energization, and removal of the existing padmount equipment in the project area. A bid alternate for a new substation exit including recloser foundation, recloser installation, grounding and wiring, substation riser stand and connections, 1,055' of cable, padmount switchgear and site restoration is being requested. The project is being undertaken to replace and upgrade the existing underground electrical system in the Aero Park Industrial Park. The Contractor will be required to closely coordinate all construction activities with the Conduit Installation Contractor and TCL&P crews.

#### TCL&P Scope of Work

Note that TCL&P crews will be completing the cable and equipment installation in the 200A "inner loop" parallel to North Aero Park Ct.

5. Clarifying the two bid alternates:
  - a. Bid Alternate #1 covers the work noted above for installation of a new substation circuit PC20.
  - b. Bid Alternate #2 covers additional / revised cost for adding 1-4" conduit, sweeps, and handholes for fiber.
6. As noted in Conduit Installation General Note #3 on drawing #1, the contractors are cautioned that multiple existing underground utilities are present in the project area. Excavations at equipment areas via vacuum truck is encouraged.
7. TCL&P will furnish the majority of material to the Contractor as listed in the material lists included with the Project Manual. The Contractor will be required to pickup and transport all material which is supplied from the Owner's warehouse (1131 Hastings St) to the project site.
8. Project substantial completion dates:
  - a. Conduit & Equipment Box Pad Installation August 14, 2020
  - b. Electrical Cable & Equipment Installation November 15, 2020
9. Project schedule is noted below.
  - a. Bid Openings **February 26, 2020, 11:00am**
  - b. Award March 10, 2020
  - c. Conduit Installation Start Est. May 2020 (Contractor to set)
  - d. Electrical Installation Start Est. July 2020 (Contractor to set)
  - e. Outages September – October
  - f. Project Completion November 15, 2020
10. Outages will likely occur during weekend hours, but no customers are running 24/7 operations.

### **Bid Submittal**

11. Reminder of items to submit with bid.
  - a. Bid Form
  - b. Bid Bond
  - c. Schedule of Values (*Please use XLS form*)
  - d. List of Subcontractors

### **Owner-Furnished Material**

12. All material furnished by TCL&P will be available at their warehouse (1131 Hastings St.)

### 13. Estimated Delivery Status

- |                         |                   |
|-------------------------|-------------------|
| a. Box Pads             | May 1, 2020       |
| b. Switchgear           | February 15, 2020 |
| c. MV UG Cable          | March 1, 2020     |
| d. MV Cable Accessories | May 15, 2020      |

14. If Bid Alternate #1 is approved, the substation recloser and riser stand will be furnished by TCL&P.

### **Site Work Items**

15. All spoils from construction will be removed from the site and disposed of by the contractor.

16. Contractors shall complete site restoration immediately following completion of their work.

### **Testing**

17. The Electrical Contractor will be required to hi-pot test all 750kCM CU 15kV cable.

### **Construction Observation**

18. TCL&P will perform construction staking, construction observation, and outage coordination. All Contractor questions during construction and invoicing will be directed to TCL&P.

### **Coordination**

19. As mentioned previously, each contractor shall coordinate their construction activities with each other and the work being completed by TCL&P.

### **Permits**

20. Permits required for the project include a City of Traverse City ROW construction permit for both contractors.

21. Re-conductoring over the railroad is considered maintenance and will only require coordinating work and flagman with Great Lakes Central Railroad.

22. Railroad Protective Liability Insurance is required of the Electrical Contractor only. Specific requirements are listed in the Supplementary Conditions.

### **Miscellaneous Items**

23. TCL&P equipment labelling standards have been included in the Electrical Contract. These standards need to be adhered to.
24. Conduits can be installed with slight bends rather than sweeps where this is possible. Notes are provided on the drawings in some instances. Example is drawing #18, layout detail for 2440 Aero Park Dr.
25. Box pad installation notes:
  - a. Switchgear box pads will be set to 12" above grade.
  - b. Sectionalizing cabinets (T-taps) will be set to 6" minimum and 8" maximum above grade.
  - c. Conduits in switchgear must be installed into the correct bay and maintain 3" clearance to the edge to allow for cable installation both at time and of initial installation and future replacement with the switchgear energized.
26. Bore logs will be required from the Conduit Installation Contractor per the specifications.
27. Recloser settings will be completed by TCL&P.

### **Addendum Items**

28. The following items are anticipated to be covered in Addendums:
  - a. Substation riser stand required for PC-20 (Electrical Contract – Bid Aleternate #1) will be supplied by TCL&P.

### **Drawing Review**

29. Drawings #1A, 1B & 1C
  - a. Review overall layout & one-line diagrams.
30. Drawing #2 - #5 (One-Line Diagrams)
  - a. Fault indicators will be installed on cable in the 600A switched ways only.
  - b. Electrical Contractor will be required to tag ends of cables when cabinet numbers are changing, even if the cabinet and cable is not being changed. Tags for this work are in the tag list.
  - c. Electrical Contractor will be required to take benchmark rotation prior to outages and confirm correct rotation following all outages. The Contractor is cautioned there is a phase roll that will be eliminated with the new underground system.
  - d. Electrical Contractor will install feed-through parking stands in all new cabinets.
  - e. Electrical Contractor will clean the inside of all existing cabinets during outages when work is being performed inside those cabinets.
  - f.
31. Drawings #6 - #17 (Underground Electric Layout)
  - a. Specific locations where cabinet box pads will be installed by Electrical Contractor since they will be replaced in the same location are specifically noted. There are six (6) locations where this is required.
  - b. Conduit Installation Contractor must coordinate TCL&P crews to be on site when a conduit needs to terminate into an energized cabinet.

32. Drawings #18 - #23 (Underground Electric Layout Details)
- a. Drawings show proposed conduit and equipment layouts at each equipment area. Due to the unknowns of all existing underground utilities, there may need to be slight variation in equipment placement plus bending of conduit and sweep installation.
33. Drawings #18G - #23G (Equipment Area Grounding Details)
- a. Drawings provide equipment grounding requirements for the Conduit Installation Contractor including number of rods (2) coupled at each location, please exothermic tees, and where to coil cable for connections to equipment.
34. Bid Alternate #1 (*Electrical Cable & Equipment Installation Contract*) – Parsons Substation Drawings
- a. Drawings have been provided showing installation, jumper and grounding connections, cabling, wiring, foundation, conduit installation, AC feed, etc. for installation of a new circuit PC20 at Parsons Substation.
35. Contractors may plan to utilize the TCL&P owned property west of Parsons Substation for a staging area.
36. Project notifications to customers affected by this project will be completed by TCL&P.
37. The project area is within the City of Traverse City but is adjacent to East Bay Township. The City / Township line is along the north and east sides of the project area.

Signed: \_\_\_\_\_  
GRP Engineering, Inc.

TRAVERSE CITY LIGHT & POWER  
AERO PARK UNDERGROUND  
PRE-BID MEETING SIGN IN SHEET

NAME	REPRESENTING	COND	PHONE	E-MAIL
		ELEC		
Eric Lascecki	Newkirk Electric	Elec	(231) 726-0522	edlascecki@newkirk-electric.com
DAVID Butler	Newkirk Electric	Both	231-260-1177	dbbutler@newkirk-electric.com
Rick SALTER	R. Roese Cony.	Conduit	989-751-6987	SALTER@roese.com manager@5star drilling.com
Trevor Jetter	5 star drilling	Conduit	231 218 9071	TJetter@gmail.com
Cory Fucci	Digit inc	Conduit	269-953-6485	cfucci@digitinc.net
Tony Chartrand	TCL+P		231-631-1015	tchartrand@tclp.org



**TRAVERSE CITY LIGHT & POWER  
AERO PARK UNDERGROUND  
PRE-BID MEETING SIGN IN SHEET**

NAME	REPRESENTING	COND	PHONE	E-MAIL
		ELEC		
Levi Ayers	CC Power	Both	231-250-1423	Layers@CCPwr.com
Kevin Krause	CC Power	Both	231-342-3858	KevinK@CCPWR.com
JACK ROEMER	Roemer Utility Services	COND	231-675-9350	JACK@RUSAPRILL.US
Josh Ringler	Western Tel-Com	Cond	616-218-3618	JoshR@westertel-com.com
JOSHUA HENDERSHOT	DIG-IT, INC.	COND	269-838-4536	jdhendershot@digitinc.net



TRAVERSE CITY LIGHT & POWER  
AERO PARK UNDERGROUND  
PRE-BID MEETING SIGN IN SHEET

NAME	REPRESENTING	COND	PHONE	E-MAIL
		ELEC		
Chris Batchelder	Kent Power	Both	616-437-0387	cbatchelder@kentpower.com
Jeremy Dalstra	Kent Power	Both	616-915-4762	jdalstra@kentpower.com
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Daren Alvesteff	Gustafson		231-425-7046	
Jeff Gustafson	GUSTAFSON HDD	COND	231 425 0388	GUSTAFSONHDD@Yahoo.com
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