

Pre-Bid Meeting Report ADDENDUM NO.2

Meeting Date: **Thursday 1/11/2018**
Time: **10:00 AM**
Location: **1131 Hastings**
From: **Tony Chartrand**
Subject: **Pre-Bid Meeting**

Project Name: **Barlow XFMR Replacement**
Project No.: **17-102.01**
Issue Date: **1/16/2018**

Attendees: **TCL&P**
Tony Chartrand

Distribution: **Attendees**

Kent Power
John Lemieux

Newkirk Electric
David Manne

Rauhorn Electric
Matt Stilson

This report will confirm those items discussed and/or reached. Unless information to the contrary is received within five (5) working days, the writer will assume all participants agree with the contents of this Report. These minutes part of Addendum No.1 and this contract.

1. **Bid opening is on Monday February 5, 2018 at 2:00 PM** at Traverse City Light & Power, 1131 Hastings St, Traverse City, MI.
2. Projected Completion date (energization) is **June 15, 2018**.
3. Tony Chartrand reviewed overall project.
4. Tony Chartrand reviewed the billing. All invoiced are sent to Tony, after Tony approves then Tony will forward to Karla for payment.
5. Tony Chartrand review "Contractors Bid Price" is not to include "Cost of Owner Furnished Material". The Performance and Payment bonds, HOWEVER, should be set up for the "Total Cost of the Project" which includes the contractors bid price and the cost of the Owner Furnished material. The owner furnished material cost is \$1,251,768.00.
6. Tony Chartrand reviewed Owner Furnished Material:
 - a. (2) Delta Star 20 MVA 69/13.8kV Transformers Anticipated delivery date is 4/25/2018. Contractor is not responsible for setting on site.

7. Tony Chartrand reviewed contractor provided material; 750 MCM CU, 4 hole NEMA bronze pads, control wire, conduit, oil containment vault, ect.
8. Tony Chartrand reviewed secondary drop to low side bus shall be 750 MCM copper.
9. Tony Chartrand reviewed the disposition of spoils. Owner will designate a location "OFF-SITE" to place spoils.
10. Tony Chartrand reviewed grounding, addition of one new ground rod ~50' deep, removal of 3 old rods, cut 2' below nearest obstruction.
11. Tony Chartrand reviewed station service for the substation. There will be extra space for a trailer breaker and parking inside substation fence.
12. Tony Chartrand reviewed grounding. All below grade connection to be welded, including rod-to-rod. All grounding will be 4/0 cable.
13. Tony Chartrand reviewed requirements to vacuum out all cabinets after wiring is completed.
14. Tony Chartrand reviewed control cable sizes, 12 AWG required. Contractor has the discretion to use next size larger or next cable count larger if they wish.
15. Tony Chartrand reviewed the Control Cable Specification. **30 mil insulation, 45 mil jacket**, all #12 & #10 control cable. E2 color coding on control cables.
16. Tony Chartrand reviewed the policy on PVC to RGS transition; ALWAYS BELOW GRADE. Liquid tight flex conduit is allowed on the end of rigid sticking out of the ground.
17. All testing and start-up service will be by TCL&P.
18. Tony Chartrand reviewed existing 2" conduit from XFMR's can be abandoned outside oil containment.
19. Tony Chartrand reviewed oil pump controller foundation to be 42" deep. Galvanized Unistrut shall be used for mounting controller.
20. Note 6 on drawing 221 is not required.
21. Delta Star will be installing the arrestors and associated jumpers.

Signed: _____

Traverse City Light & Power