October 9, 2020

RE: ITB 31-20 Tie Switch Transmission Pole
ADDENDUM No. 1

To prospective vendors:

The Utilities Commission is issuing the following addendum. As such it becomes an integral part of the proposal and must be acknowledged by the return of this signed form, with your proposal form, acknowledging receipt of the addendum.

VENDORS ARE ENCOURAGED NOT TO ATTEND BID OPENINGS IN PERSON BUT TO ATTEND BY DIALING 1 (646) 570-1040 PIN: 924-5593

THE UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH TAKES THIS STEP IN AN ABUNDANCE OF CAUTION FOR THE SAFETY AND WELLBEING OF OUR STAFF AND COMMUNITY.

IF YOU ARE DROPPING OFF A BID PLEASE RING THE BELL AND THE SECURITY GUARD WILL TAKE IT FROM YOU.
Section 02582 Replace Page 7 with the attached Page 7 Spec.

Q: In the loading tree coordinates for the structures, it appears the Y is the tension. Please see the line diagram pic below. However, under the LOAD TREE COORDINATES table under the line diagram that Y is referenced as Y = Longitudinal Loads.

We assume Y is the conductor tension and not the longitudinal force.

If you don’t mind, please confirm if Y is referencing the tension of the conductor and not the longitudinal force.

A: The Y is the longitudinal force in the table of values. The values in the table, take into account the 1.5 degrees depicted in the “Viewed from tip” diagram in the B-D plane.

On structures where there is a Tap (AP17a & FS32), there is an additional longitudinal force (Yls & Ylt) in the A-C plane and (Xls & Xlt) is in the B-D plane.

A Copy of This Signed Form Must Accompany Your Proposal

Acknowledgment of Receipt of Addenda No. 1

Company_______________________________________
Title___________________________________________
Signature_______________________________________
B. Concrete Poles shall be designed for direct embedment, in self-supporting or guyed applications. Two degrees shall be assumed as the rotation at the ground-line under the controlling load case. Unless otherwise specified, the total pole deflection shall not exceed 15% of the height above ground, including the rotation of the foundation. Structure FS32 total pole deflection shall not exceed 5% of the height above ground, including the rotation of the foundation.

C. The pole analysis shall assume the maximum moment (point of fixity) to occur at a point 1/3 of the distance below the ground line. The reinforcing steel required at the point of fixity shall continue to within two feet of the butt.

D. Elastic methods of analysis shall be used.

E. Unless otherwise specified, poles shall be designed so that the First-Crack moment of the pole exceeds 40 percent of the Ultimate moment, and the Zero-Tension moment of the pole exceeds 28 percent of the Ultimate moment.

F. Hauling and handling stresses shall be designed to be less than stresses corresponding to the First-Crack load.

2.4 DESIGN DETAILS

A. The pole shaft shall be circular in cross section and shall have a uniform exterior taper of 0.216 inches per foot from the tip to the butt.

1. Poles shall have a minimum pole top diameter of 13 inches and a maximum pole top diameter of 20 inches.

2. Poles shall have a minimum wall thickness of 2.5 inches at any point along the shaft. The pole shall have sufficient wall thickness to withstand the forces induced by any connecting bolts.

B. Poles shall be designed with a void in the center of the pole, consistent with strength requirements and weight reduction. Not less than the top and bottom 12 inches of each pole shall be solid and without voids, with the exception of a 1-inch diameter weep hole through the solid bottom.

C. The Manufacturer shall provide preformed holes through each pole for each structure type as indicated on the Drilling Detail Drawings. Holes shall be cast using cast-in-place PVC pipe, and shall be perpendicular to the centerline of the pole, unless specified otherwise on the Drawings.

1. The Manufacturer shall provide “cant” holes for handling. The Manufacturer shall provide lifting holes, or suitable flush inserts with removable lifting attachments may be cast into the pole.

2. The Owner or their Contractor may furnish additional hole requirements to the Manufacturer during the Submittal process. Holes above a quantity of 20 will be accounted for at the unit prices furnished with the Bid.