

ADDENDUM NO. 1  
November 29, 2021  
Issued to All Bid Document Holders of Record

Owner: City of Grand Island  
Project: "115 KV POLE INSPECTION AND PRESERVATION SERVICES".

This Addendum forms a part of the Contract described above. The original Contract Documents remain in full force except as modified by the following which shall take precedence over any contrary provisions in the prior documents.

The following changes are made to the detailed specifications (highlighted areas are additions to the original specifications):

## 7.0 WOOD POLE INSPECTION

All wood poles, on the 115 kV transmission line surrounding the City of Grand Island and the City owned poles on the Nebraska Public Power District (NPPD) interconnection tie lines, are to be inspected. Wood poles will be inspected for defects, in the pole structure, arms, attachments, and grounding equipment from at least 18 inches below ground level to pole top. The findings of the inspections shall be utilized for decisions about wood pole treatment requirements, and other applicable maintenance.

Inspection shall be split into four separate parts.

- A. Inspection and verification of pole information.
- B. Inspection of pole hardware, attachments, and grounding.
- C. Inspection of soil condition, pole condition at ground line, and the advisability of sub-soil inspection.
- D. Inspection of the sub-soil pole condition.

Visual inspection shall include an inspection of surrounding soil and environment for indications of pole depth changes from initial placement, such as re-landscaping, or soil removal from within 10 feet of the pole. Indications of depth changes that may compromise safety or ability to perform sub-soil inspections shall be brought to the immediate attention of the City representative. Other, less severe, pole depth changes are to be properly noted in the reports without City representative notification.

Visual inspection shall also include observations of loose, defective, or missing hardware from a pole or pole structure. If vandalism is suspected (i.e. indication of a rifle shot, or other damage) to a pole or to a pole structure, the suspicions are to be noted as such in the reports.

Inspection above and below grade will include sounding, and/or the use of automated test equipment (i.e. PoleTest pole strength analyzer) to determine the quality of the internal wood to the pole. Sounding, and/or automated testing shall extend from below ground level to a point at least eight feet above grade.

Coring or drilling of the appropriate size and frequency shall be performed, as required, to assure an accurate assessment of each wood pole's internal integrity both above and below grade. ~~Additionally, an assessment of the internal wood moisture content shall be performed to determine if moisture is or will exceed 30%, the level decay can start.~~

Any pole that is found to have less than 67% strength remaining shall be considered a reject pole and any pole that is found to have less than 13% strength remaining shall be considered a priority

reject pole. Bidders shall provide their methodology on how strength is calculated. Any poles that have less than 67% strength remaining shall be brought to the owner's attention.

Wood poles that are not serviceable due to wood defects, obvious decay, or internal voids or wood poles with an estimated service life less than ten years, even after treatment, shall be marked with a blue line two feet above grade. This colored line will indicate the pole is in need of replacement. The pole shall be noted for replacement in the daily and final reports, as well as verbally informing the City's representative.

The City of Grand Island Utilities Department reserves the right to decide the actual treatment action or procedure, within reason, including the determination not to do any treatment, to be taken by the successful bidder based upon the findings of the inspections, and the successful bidder's recommendations.

## 8.0 EXCAVATION OF WOOD POLES

Wood poles subject to excavation shall have adequate strength, and depth, for a minimum excavation of 18 inches below ground level. Ground conductors, down guys, and support wires shall be handled carefully to prevent breakage.

~~The excavated soil shall be inspected for undecomposed organic material and other debris which shall be removed and destroyed. The cleaned soil and additional sandy loam fill, as required, shall be used to refill around the treated pole. New sandy loam fill dirt shall be purchased from a reputable supplier, not scooped up from the nearest open spot. The City's representative shall have the right to inspect and approve or reject the fill soil prior to project use. Flowers, landscaping, or other growing ground cover shall be replaced with new similar cover, after backfill and compaction.~~

Replacement fill shall be mechanically tamped with weighted hydraulic tamper in approximately 6 to 8 inch intervals. Soil compaction shall meet or exceed the original soil compaction. A four-inch buildup around base of each treated pole sloping to two inches of compacted fill at 12" from the pole shell.

Broken ground wires shall be repaired and tested per section 14.0. No backfilling will be done until the repair is performed.

Only every other pole or pole structure in a section of line shall be excavated at a time. No more poles may be excavated than can be refilled in a day. No poles will be left excavated overnight.

## 14.0 TESTING AND REPAIR OF POLE GROUND

The bidder is responsible for inspection and electrical testing of each pole ground. If the ground resistance is found to be greater than ~~50~~ 10 ohms, new or additional ground rods shall be driven and connected until the ground resistance tests below 50 ohms. All grounding materials will be provided by the City. Pre and post inspection resistance readings shall be recorded and provided to the City.

Travis W. Burdett  
City of Grand Island

ACKNOWLEDGEMENT

The undersigned acknowledges receipt of this Addendum No. 1 and the Bid Submitted is in accordance with information instructions and stipulations set forth herein.

Bidder: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_