

**QUESTION AND ANSWERS III FOR:**

**# 17-34 RFB for Tubular Steel Structures, Dickerson Avenue to**

**Frog Level Road, 06.21.17 at 2:00 PM**

- 1) The poles with vibratory caissons are given a weathering finish. Should the caissons be galvanized? This is typical of caissons, regardless of whether the pole section is weathering or galvanized. **Caisson section should be galvanized**
- 2) On P-13 & P-14, caisson diameters of 3'-0" and 3'-10" are given. Are these flat-flat diameters? **Yes, Flat to Flat.**
- 3) The 3'-10" caisson diameters on P-14 are given as maximum. Is there a minimum, like 3'-0"? **Foundation capacity calculations are based on 3'-10" and 3'-0" respectively. Please limit sizes to these values.**
- 4) Section 5.1.10 of the specification gives a maximum taper change of 0.20 in./ft. between sections. I'm assuming this would not apply to the slip jointed caissons on TMF-VPB? **Correct.**
- 5) Section 5.1.12 gives criteria for camber, rake, and deflection limits. I saw conflicting information on whether or not the poles can be cambered or raked. Should the poles be limited to 1% deflection, with no camber or rake? **Correct. No raking or cambering will be permitted.**
- 6) The .lca files in PLS give deflection limits on other load cases. I did not see these mentioned in the specifications, would these deflection limits apply? **Yes. The PLS files are a supplement to the written specification.**
- 7) Section 5.1.12.2 asks for worst wind direction. The .lca files in PLS and the load tables have NA+ and NA- wind directions. Should I apply wind in the NA+ and NA- directions, or make it worst wind? **NA+ and NA- will be sufficient. This will apply load perpendicular to the wires.**
- 8) Section 5.1.12.3 limits deflection under 60°F to 6" between initial and final states. I assume this does not apply, since there's only 1 camber load case given?
  - **The PLS files are a supplement to the written specification. Both should be used.**
- 9) The .lca files in PLS give a 95% usage limit on some load cases. I did not see this mentioned in the specifications, would this apply?
  - **Yes. The PLS files are a supplement to the written specification.**
- 10) Section 5.1.13.2 gives a point of fixity of 7% of pole length from the bottom. I assume this would not apply to the LD poles with slip-jointed caissons on TMF-VPB? With the non-tapered section, a very low point of fixity could potentially overdesign the structure.
  - **This is RUS' recommendation for poles, not sure how that would change for a caisson. I will check with Engin.**