**DESIGN NOTES:**

- Design according to FDOT Structures Manual.
- Maximum 1" deflection in 40mph wind (3 second gust).
- Manufacturers seeking approval for inclusion on the Qualified Products List (QPL) must submit a QPL Production Application along with design documentation and drawings showing pole and foundation meet all specified requirements of this Standard. Provide documentation that certifies and demonstrates that pole is designed to accommodate and be compatible with a lowering device listed on the Approved Product List.
- Perform all welding in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition).

**Foundation materials:**
- Reinforcing Steel: ASTM A615 Grade 60
- Concrete: Class IV (Drilled Shaft) with a minimum 4,000 psi compressive strength at 28 days for all environment classifications.
- Anchor bolts: ASTM A1054 Grade 50 with ASTM A563 Grade A heavy-hex nuts.
- ASTM F436 Type 1 washers.
- ASTM F2329 galvanization.

**INSTALLATION NOTES:**
- Cable Supports: Electrical Cable Guides and Eyebolts. Locate top and bottom electrical guides within the pole aligned with each other.
- Position one cable guide 2" below the handhole.
- Position one cable guide 1" directly below the top of the tenon.
- Position top and bottom electrical guides within the pole aligned with each other.
- Coordinate anchor bolt design with the shaft reinforcement and CSL tube details.
- Provide 4" cover for the top of drilled shaft and 6" cover for sides and bottom of the pole tube thickness.

**POLE SPECIFICATIONS:**
- ASTM A1001 Grade 55, 60, 65 or 70 (less than 14 ksi yield).
- ASTM A572 Grade 50, 60 or 65 (greater than 14 ksi yield).
- ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield).
- Steel Plates and Pole Cap: ASTM A36.
- Weld Metal: E70XX.
- Bolts: ASTM A325, Type 1.
- Handhole cover: ASTM A1011 Grade 50, 55, 60 or 65.
- Stainless steel screws: AISI Type 316.
- Galvanization:
  - Nuts, bolts and washers: ASTM F2329.
  - All other steel: ASTM A123.

**POLE GENERAL NOTES:**
- 16 sided or more or round.
- Tapered 0.14 inches per foot.
- Transverse welds only allowed at the base.
- One or Two sections (with telescopic field splice) is allowed.
- No laminated tubes.
- No laminated tubes.
- Only one longitudinal seam weld permitted.
- Longitudinal seam welds within 8" of circumferential welds shall be complete penetration welds.
- Longitudinal seam welds at telescopic field splices shall be complete penetration welds for the splice length plus six inches. At other areas, size the partial-penetration welds to at least 60% of the pole tube thickness.
- Identification tag:
  - Aluminum, secured to pole with stainless steel screws.
  - Locate inside pole and visible from handhole.
  - Provide Financial Project ID, pole height, manufacturer's name, QPL Number, f_y of Steel and Base Wall Thickness.

**POLE DESIGN:**
- Maximum 1" deflection in 40mph wind (3 second gust).
- Interim Design Standard 2010
- Interim Sheet 2 of 2
- Steel CCTV Pole
- 18111
- 01/01/11