GENERAL NOTES:

1. Work these Index drawings with the Strain Pole Schedule in the Plans.
2. Shop Drawings: This Index is considered fully detailed and no shop drawings are necessary.
3. Submit shop drawings for minor modifications not detailed in the plans.
4. Fabrication:
   A. Pole Taper for pole width, strands, reinforcing and void: 0.081 in/ft per face.
   B. Prestress Strands & Spiral Reinforcing: Specification Section 641
   C. Concrete Cover: 1" minimum
   D. Spiral Reinforcing: As shown, plus one turn for splices and two turns at both the tip and butt ends of the pole.
   E. Concrete Taper: 7" minimum
   F. Concrete Taper: 7" minimum
   G. Concrete Taper: 7" minimum
   H. Concrete Taper: 7" minimum
5. Support locations are for strand release, storage, lifting and transport. Keep BF oriented downward until final erection.
6. Pick-up and support locations shown may vary within a tolerance of ±3".
7. Two point attachment: provide an eye bolt hole for the messenger wire.
8. Tether Wire: When required, field-drill the eyebolt hole prior to installation.
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

Front Face
Identification Markings
1'-0" 1'-6"
48" 2" Galv. Coupler with Cover
3"x5" Conduit
4"x6" Hand Hole with Cover
3'-6"
2'-6"
24" No. 6 Bare Copper Ground Wire

Back Face
Plug Void End with Min. 3" of Concrete

TIP END SECTION (TOP)

SECTION A-A (Typical Square Section)

POLE TYPE P-III

POLE ELEVATION
(Strands and Reinforcing Not Shown)

NOTE:
- Strands shown are continuous from Tip End to Butt End.
- Elevation view scale is exaggerated vertically for clarity.
- For final erection, tilt pole upright with single point attachment located a distance 33.3% L from Tip End.
- Dimension may vary from 2½" to 3¾" to accommodate smaller radius of optional stepped (PVC) void.
- The void diameter shall not be less than 2½".

POLE TYPE P-III

VALUES:

20% L

POLE ELEVATION
(Strands and Reinforcing Not Shown)

1½" Min. (Typ.)
1½" Min. (Typ.)

10½ Min. (Typ.)

10½ Min. (Typ.)

STRAND LEGEND
- Prestressed Strand: 0.5 in. ~ 31 kips Before Transfer (4 strands total)
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

POLE ELEVATION
(Strands and Reinforcing Not Shown)

STRAIN POLE TYPE P-IV

CONCRETE POLES
**Spiral Reinforcing Elevation**

(Strands, Holes, and Fixtures Not Shown)

**Tips End Section (Top)**
(For Dormant Strand Locations, See Section A-A)

**Section A-A**
(Typical Square Section)

**Notes:**
- Strands shown are continuous from Tip End to Butt End.
- Elevation view scale is exaggerated vertically for clarity.
- For final erection, tilt pole upright with single point attachment located a distance 12.5% L from the Tip End.
- Dimension may vary from 3\(\frac{1}{6}\)" to 4\(\frac{1}{2}\)" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 4".
SPiral reinforcing elevation
(Strands, Holes, and Fixtures Not Shown)

Notations:
- Strands shown are continuous from Tip End to Butt End.
- Elevation view scale is exaggerated vertically for clarity.
- For final erection, tilt pole upright with single point attachment located a distance 30% L from the Tip End.
- Dimension may vary from 3½" to 5" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".

Pole Type: P-VII

Strand Legend:
- Prestressed Strand: 0.5 in. - 3½ kips before transfer (10 strands total).
- Dormant Strand: 0.5 in. (6 strands total), one 24” splice allowed per strand.

Support Locations (Horizontal Pole)

1½ Min. (Typ.)

#5 Gauge Spiral Reinforcement

VOID & SECTION

Front Face (Roadway)

1½ (Typ.)

1½ Min. (Typ.)

Circular Void

PER STRANDS

STRAINS POLE TYPE P-VII

INDEX 641-010

SHEET 7 of 8

FY 2019-20 STANDARD PLANS

DESCRIPTION:

REVISI0N 01/01/17

CONCRETE POLES