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. Submit shop drawings for minor modifications not detailed in the plans.

3. Materials:
   A. Concrete: Class V Special with 4 ksi minimum strength at transfer or Class VI with 6.5 ksi minimum strength at transfer
   B. Prestress Strands & Spiral Reinforcing: Specification 641
   C. Hand and coupler cover plates: Non-corrosive material
   D. Screws: Round headed, chrome plated

4. Fabrication:
   A. Pole taper for pole width, strands, reinforcing and void: 0.081 in/ft per face.
   B. Concrete Cover: 1” minimum
   C. Spiral Reinforcing: As shown, plus one turn for splices and two turns at both the tip and butt ends of the pole.
   D. The design dimensions for Front Face (FF) and Back Face (BF) of the poles may vary transversely from the section shown by ±1/2” to assist with removal from forms. Balance addition and subtraction of the face widths to maintain section areas shown.
   E. Tie ground wires to the interior of reinforcing steel to prevent displacement during concreting operations.
   F. Cut the tip end of the prestressed strand first or simultaneously with the butt end.
   G. Provide cover plates and screws for hand hole and couplers. Attach cover plates to the poles using lead anchors or embedded threaded inserts.
   H. Provide Aluminum Identification Tags on the poles with the following information:
      a. Financial Project ID
      b. Pole Manufacturer
      c. Standard Pole Type Number
      d. Pole length (L)

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
SERVICE POLE P-IIA (12 Ft.) & P-IIIB (36 Ft.) ELEVATION
(Strands Not Shown)

PEDESTAL POLE P-IIC (12 Ft.) ELEVATION
(Strands Not Shown)

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 of 4 Ft. (for P-IIA & P-IIC) or 10 Ft. (for P-IIIB) from the Tip End.
- * Dimension may vary from 2½" to 3½" to accommodate smaller radius of circular void. The void diameter shall not be less than 2".

SERVICE AND PEDESTAL POLE TYPE P-II

CONCRETE POLES

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CONCRETE POLES

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Spiral Reinforcing Elevation
(Strands, Holes, and Fixtures Not Shown)

26" No. 6 Bare Copper Ground Wire

Identification Markings

48" No. 6 Bare Copper Ground Wire

POLE ELEVATION
(Strands and Reinforcing Not Shown)

POLE TYPE P-III
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

POLE ELEVATION
(Strands and Reinforcing Not Shown)

STRAND LEGEND
- Prestressed Strand
  0.5 in. = 31 kips Before Transfer (6 strands total)
- Dormant Strand
  0.5 in. (6 strands total)
  One 24" Splice Allowed Per Strand

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 20% L from the Tip End.
- * Dimension may vary from 3" to 4¼" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 2½".

CONCRETE POLES

STRAIN POLE TYPE P-IV
CONCRETE POLES

SPiral Reinforcing Elevation
(Strands, Holes, and Fixtures Not Shown)

Pole Elevation
(Strands and Reinforcing Not Shown)

Tip 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 3½” to 4⅞” to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 4”.

Strand Legend
- Prestressed Strand
  0.5 in. ~ 31 kips Before Transfer (8 strands total)
- Dormant Strand
  0.5 in. (4 strands total) One 24” Splice Allowed Per Strand

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**STRAND LEGEND**

- Prestressed Strand
  - 0.5 in. (~31 kips)
  - 22 Turns @ 2.5" Pitch
  - One 24" Splice Allowed Per Strand
- Dormant Strand
  - 0.5 in. (~4 strands total)
  - 22 Turns @ 2.5" Pitch
  - One 24" Splice Allowed Per Strand

**NOTES:**

1. Strands shown are continuous from Tip End to Butt End.
2. Elevation view scale is exaggerated vertically for clarity.
3. For final erection, tilt pole upright with single point attachment located a distance 10% L from Tip End.
4. Dimension may vary from 3" to 6½" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".

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**POLE ELEVATION**

(Studs and Reinforcing Not Shown)

**STRAIN POLE TYPE P-VI**

**REVOLUTION DESCRIPTION:**

**REVISION LAST SHEET INDEX**

**CONCRETE POLES**

**INDEX 641-010 SHEET 6 of 8**
**SPRAT POLE TYPE P-VIII**

**POLE ELEVATION**
(Standards and Reinforcing Not Shown)

**TIP END SECTION**
(For Dormant Strand Locations, See Section A-A)

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

**STRAIGHT LEGEND**
- Prestressed Strand
  0.5 in. ~ 31 kips Before Transfer (12 strands total)
  
- Dormant Strand
  0.5 in. (8 strands total)

**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 10% L from the Tip End.

* Dimension may vary from 3¾" to 5" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½."