Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:
Date: January 27, 2021
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Summary of the changes:
Redeveloped Index
Sheet 1: General Note, Table of Contents, and added Concrete Pole Assembly.
Sheet 2: New - Service Pole P-IIA
Sheet 3: New - Service Pole P-IIB
Sheet 4: New - Pedestal Pole P-IIC
Sheet 5: Previously Sheet 3 - Update Notes and Legend.
Sheet 6: Previously Sheet 4 - Update Notes and Legend.
Sheet 7: Previously Sheet 5 - Update Notes and Legend.
Sheet 8: Previously Sheet 6 - Update Notes and Legend.
Sheet 9: Previously Sheet 7 - Update Notes and Legend.
Sheet 10: Previously Sheet 8 - Update Notes and Legend.

Commentary / Background:

Other Affected Offices / Documents: (Provide name of person contacted)

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Origination Package Includes:
(Email or hand deliver package to Rick Jenkins)

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Implementation:

| ☐️  | Design Bulletin (Interim) |
| ☐️  | DCE Memo                   |
| ☐️  | Program Mgmt. Bulletin     |
| ☑️  | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form
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 or Class VI
   B. Precast Strands & Spiral Reinforcing: Specification Section 644
   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: 0.061 in/ft per face.
   B. Concrete Super-T 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 ±¼" 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.

ADDED: CONCRETE POLE ASSEMBLY

ADDED: TABLE OF CONTENTS
SERVICE POLE P-IIA (12 Ft.) & P-IIB (36 Ft.) ELEVATION
(Strands Not Shown)

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

NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. Strands shown are continuous from Tip End to Butt End.
3. Strands not shown in the elevation view for clarity.
4. Strands shown are continuous from Tip End to Butt End.
5. Strands not shown in the elevation view for clarity.

SERVICE AND PEDESTAL POLE TYPE P-II

UPDATED: ALL SHEETS
1. Provide a minimum 3" concrete plug at the Tip End.
2. Strands shown are continuous from Tip End to Butt End.
3. 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-IIB) from the Tip End.
4. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of distance of 4 Ft. (for P-IIA & P-IIC) or 10 Ft. (for P-IIB) from the Tip End.
5. Strands not shown in the elevation view for clarity.

UPDATE: ALL SHEETS
1. Provide a minimum 3" concrete plug at the Tip End.
2. Strands shown are continuous from Tip End to Butt End.
3. 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-IIB) from the Tip End.
4. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of distance of 4 Ft. (for P-IIA & P-IIC) or 10 Ft. (for P-IIB) from the Tip End.
5. Strands not shown in the elevation view for clarity.

SERVICE AND PEDESTAL POLE TYPE P-II

CONCRETE POLES

FY 2018-19
STANDARD PLANS

REARRANGED/UPDATED:
Sheet 2: Service Pole P-IIA
Sheet 3: Service Pole P-IIB
Sheet 4: Pedestal Pole P-IIC
Spiral Reinforcing Elevation
(Grands, Holes, and Fixtures Not Shown)

**NOTES:**
- Transfer (4 strands total)
- 0.5 in. ~ 31 kips Before Prestressed Strand:
  - (Horizontal Pole)
- Support Locations
- (Strands and Reinforcing Not Shown)

**UPDATE:** See Sheet 2

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

**Strand Legend**
- Prestressed Strand: 0.5 in. ~ 31 kips Before Transfer (4 strands total)

**POLE TYPE P-III**
CONCRETE POLES

SPRIL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

POLE ELEVATION
(Strands and Reinforcing Not Shown)

NOTES:
- Strands shown are continuous from Tip End to Butt End.
- 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".

UPDATED: See Sheet 2

STRAIN POLE TYPE P-IV

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

Pole Elevation
(Strands and Reinforcement Not Shown)

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

Section A-A
(Typical Square Section)

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

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 4½" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 4".

Updated: See Sheet 2
**POLE ELEVATION**

(For Dormant Strand Locations, See Section A-A)

**TIP END SECTION (TOP)**

- 1½ Min (Typ.)
- #5 Gauge Spiral
- Circular Void
- Ground 2 Strands 10'-0" From Top

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

- 1½ Min (Typ.)
- #5 Gauge Spiral
- Circular Void

**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

**NOTES:**

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

**UPDATED:** See Sheet 2

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 Tip End.

- Dimension may vary from 3' to 4½" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".

**UPDATED:** See Sheet 2

Elevation view scale is exaggerated vertically for clarity.

For final erection, tilt pole upright with single point attachment located a distance 10% L from Tip End.

- Dimension may vary from 3' to 4½" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".
GENERAL NOTES:

1. Work these Index Sheets with the Strain Pole Schedule in the Plans. See Index 634-001 for corresponding signal cable and span wire installation details.

2. Shop Drawings:
   
   This Index is considered fully detailed and no shop drawing are necessary. Submit shop drawings only for minor modifications not detailed in the Plans.

3. Materials:
   
   A. Concrete: Class V Special or Class VI
   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 Total Taper shown is for pole width, strands, reinforcing and void (0.081 in/ft per face).
   B. Concrete Cover: 1" minimum.
   C. Spiral Reinforcing: Place as shown, and add 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 ± ¼" to assist with removal from forms. Balance addition and subtraction of the face widths to maintain section areas shown.
   E. Cut the bar and of the prestressed strand either first or simultaneously with the butt end.
   F. Provide cover plates and screws for hand hole and couplers. Attach cover plates to the poles using lead anchors or embedded threaded inserts.
   G. Provide Aluminum Identification Tag on the pole with the following information:
      
      a. Financial Project ID.
      b. Pole Manufacturer
      c. Standard Pole Type Number
      d. Pole Length (L)

5. Support Points:
   
   Support Points shown may vary within a tolerance of ±3".

   Horizontal Pole Support Points shown are for strand release, storage, handling and transport of the horizontal pole. Keep Back Face oriented downward until final erection.

6. Two point attachment: Provide an eye bolt hole for the messenger wire.

7. Tether Wire: When required, field-drill the eyebolt hole prior to installation.

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NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.

2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.

3. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".

4. Strands shown are continuous from Tip End to Butt End.

5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand: 0.5 in. – 24 kips before transfer or 0.375 in. – 14 kips before transfer (4 strands total)
SERVICE POLE TYPE P-IIIB (36 Ft.)

NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10 feet from the Tip End.
3. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of optional stepped (PVC) void.
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:
- Prestressed Strand: 0.375 in. – 14 kips before transfer or 0.375 in. – 24 kips before transfer (4 strands total)
Spiral Reinforcing Spacing

13 Turns @ 2" Pitch
2'-0"

20 Turns @ 6" Pitch
9'-10"

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

POLE ELEVATION
(Strands and Reinforcing Not Shown)

NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:
- Prestressed Strand:
  0.3 in. – 24 kips before transfer or
  0.375 in. – 16 kips before transfer
  (4 strands total)

PEDESTAL - TYPE P-II C (12 Ft.)
**SECTION G-G (Tip End)**

- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Void and Section
- 2\(\frac{1}{2}\)" Void and Section
- Circular Void
- Front Face
- Back Face
- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Chamber (Typ.)
- Circular Void
- Front Face
- Back Face
- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Chamber (Typ.)
- Circular Void
- Front Face
- Back Face
- 

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

- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Void and Section
- 2\(\frac{1}{2}\)" Void and Section
- Circular Void
- Front Face
- Back Face
- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Chamber (Typ.)
- Circular Void
- Front Face
- Back Face
- 2\(\frac{1}{2}\)" Min. (Typ.)
- 2\(\frac{1}{2}\)" Chamber (Typ.)
- Circular Void
- Front Face
- Back Face
- 

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**POLE TYPE P-III**

**NOTES:**

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 33% L from the Tip End.
3. Dimension may vary from 2\(\frac{1}{2}\)" to 3\(\frac{1}{2}\)" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2\(\frac{1}{2}\)".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

**LEGEND:**

- Prestressed Strand:
  - 0.3 in. ~ 31 kips before transfer (4 strands total)
SPIRAL REINFORCING ELEVATION

(Strands, Holes and Fixtures Not Shown)

POLE ELEVATION

(Strands and Reinforcing Not Shown)

NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 20% L from the Tip End.
3. Dimension may vary from 3" to 4½" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2½".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:
- Prestressed Strand:
  0.5 in. – 31 kips before transfer (6 strands total)
- Dormant Strand:
  0.5 in. (3 strands total) one 24" splice allowed per strand
NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 12.5% L from the Tip End.
3. Dimension may vary from 3½" to 4½" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 4".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

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
**Spiral Reinforcing Elevation**

- Strands, Holes, and Fixtures Not Shown

**Notes:**
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

**Legend:**
- Prestressed Strand: 0.5 in. ~ 31 kips before transfer (10 strands total)
- Dorman Strand: 0.5 in. (6 strands total) one 24" splice allowed per strand
SPINDLE ELEVATION (Strands, Holes, and Fixtures Not Shown)

SECTION Q-Q (Tip End)

SECTION R-R (Typical Square Section)

NOTES:
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3\(\frac{1}{8}\)" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6\(\frac{1}{8}\)".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:
- Prestressed Strand: 0.3 in. = 31 kips before transfer (12 strands total)
- Dorman Strand: 0.3 in. (6 strands total) one 24" splice allowed per strand