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. <u>Materials</u>:

Class V with 4 ksi minimum strength at transfer or A. Concrete:

Class VI with 6.5 ksi minimum strength at transfer

B.Prestress Strands & Spiral Reinforcing: Specification 641 Non-corrosive material C.Hand and coupler cover plates: 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 $\pm \frac{1}{4}$ " 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 either 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 Tag on the pole with the following information:
- a. Financial Project ID.
- b. Pole Manufacturer
- c. Standard Pole Type Number
- d. Pole Length (L)

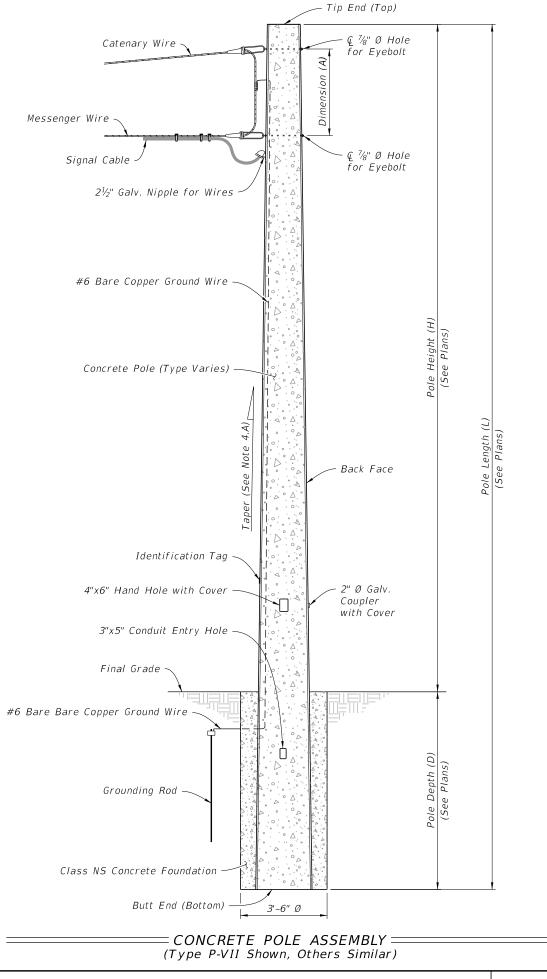
5. Support Points:

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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Sheet	Description
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3	Service Pole – Type P-IIB (36 Ft.)
4	Pedestal Pole - Type P-IIC (12 Ft.)
5	Pedestal Pole - Type P-IID (16 Ft.)
6	Pole - Type P-III
7	Strain Pole - Type P-IV
8	Strain Pole – Type P-V
9	Strain Pole – Type P-VI
10	Strain Pole - Type P-VII
11	Strain Pole - Type P-VIII



REVISION 11/01/22

DESCRIPTION:

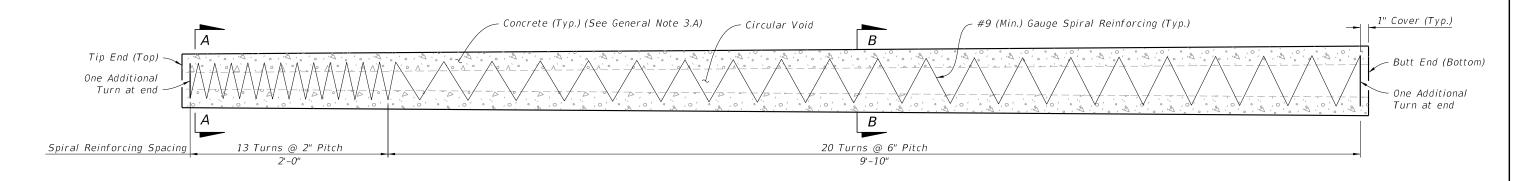
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FY 2023-24 STANDARD PLANS

CONCRETE POLES

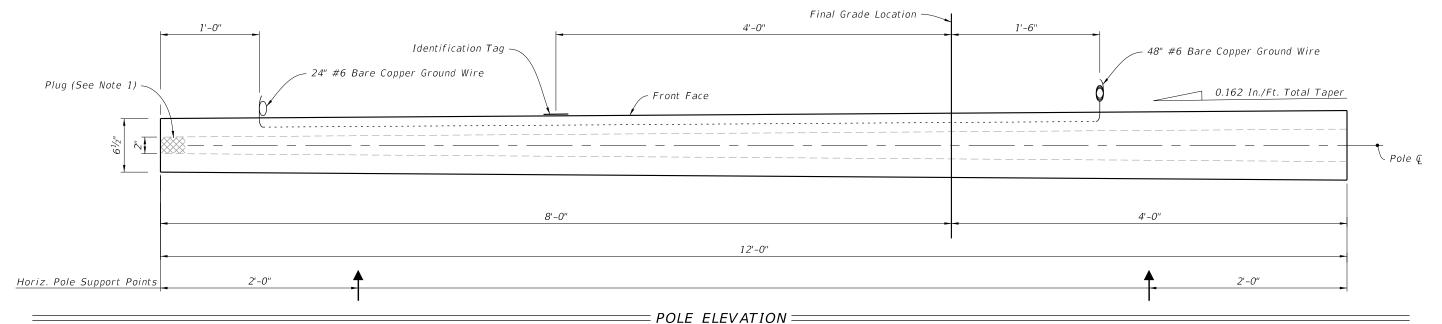
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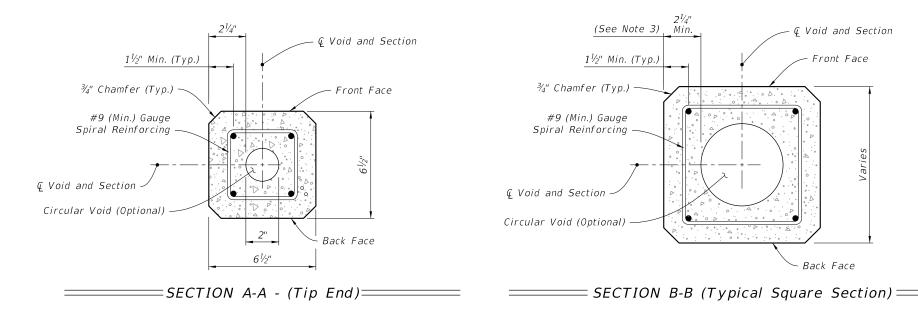


SPIRAL REINFORCING ELEVATION

(Strands and Fixtures Not Shown)



(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 $2\frac{1}{4}$ " to $3\frac{1}{2}$ " 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-IIA (12 Ft.)

REVISION 11/01/22

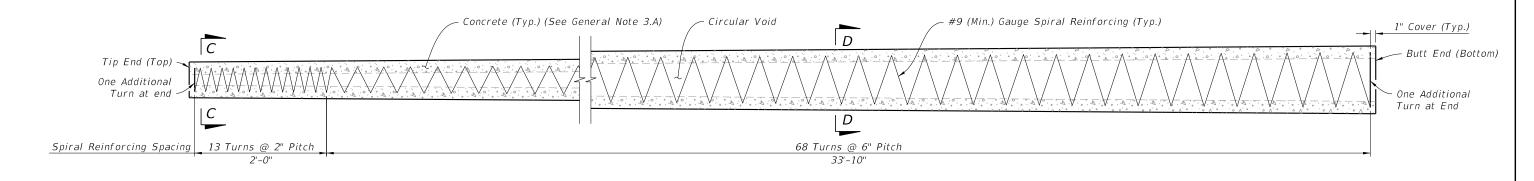
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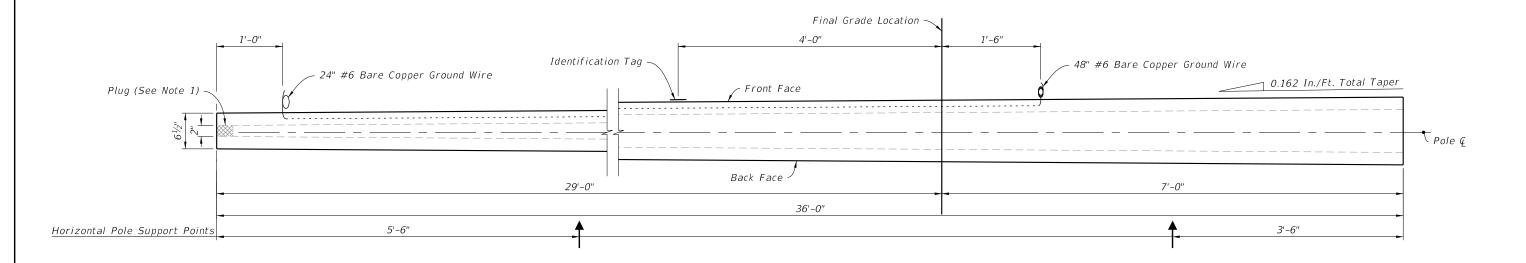
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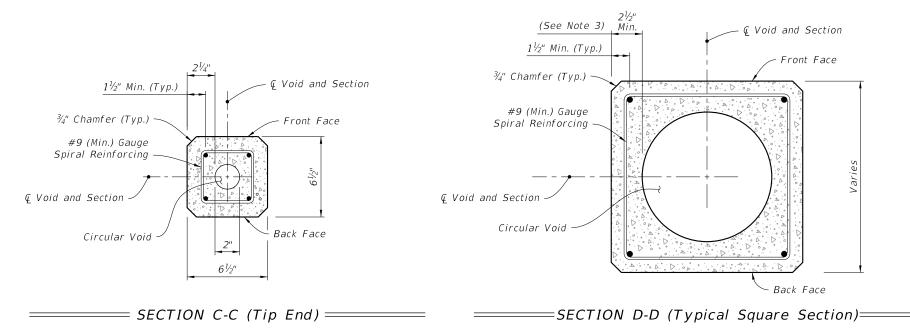
SPIRAL REINFORCING ELEVATION =

(Strands 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 10 feet from the Tip End.
- 3. Dimension may vary from $2\frac{1}{4}$ " to $3\frac{1}{2}$ " 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-IIB (36 Ft.)

REVISION 11/01/22

DESCRIPTION:

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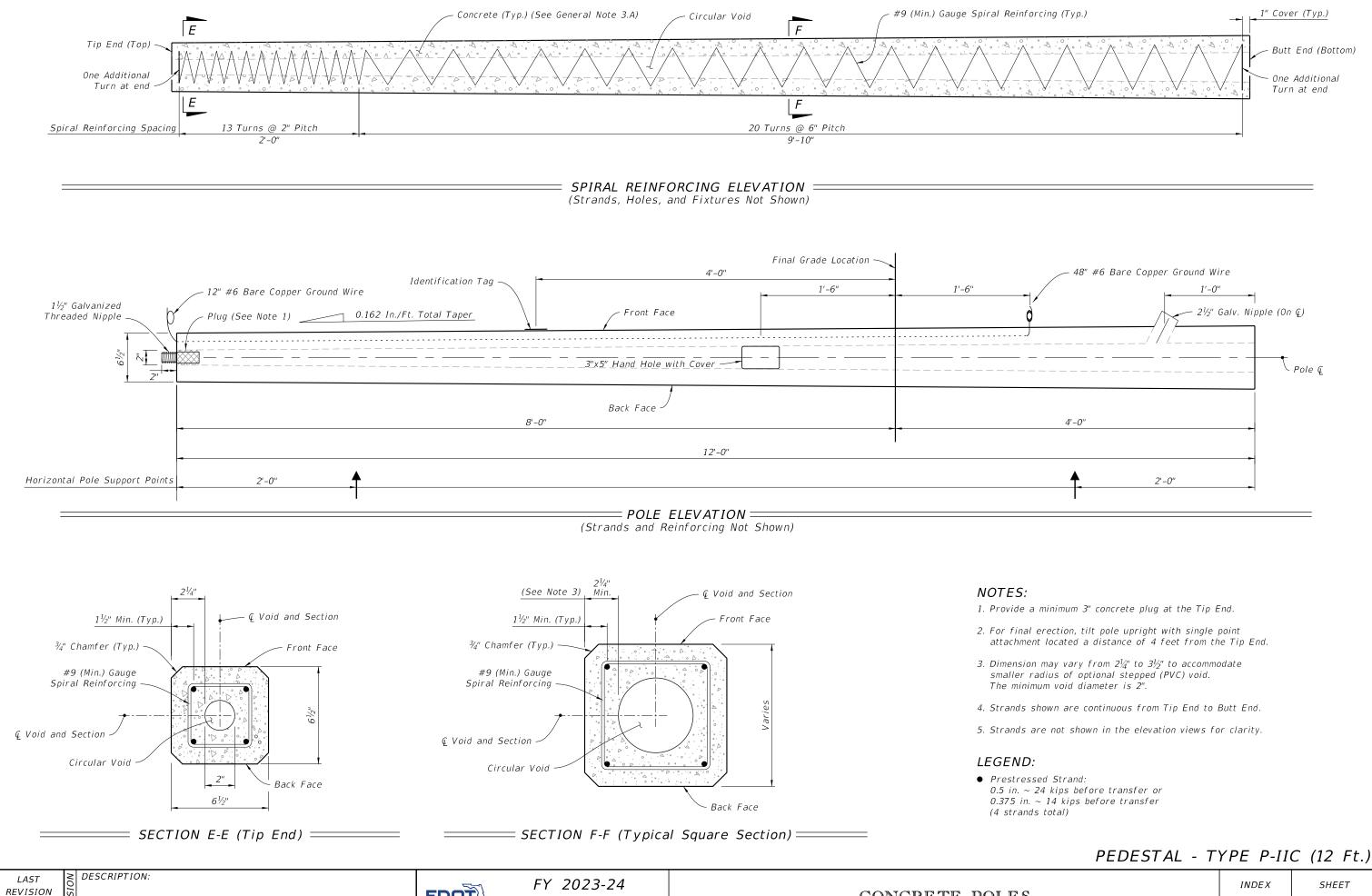
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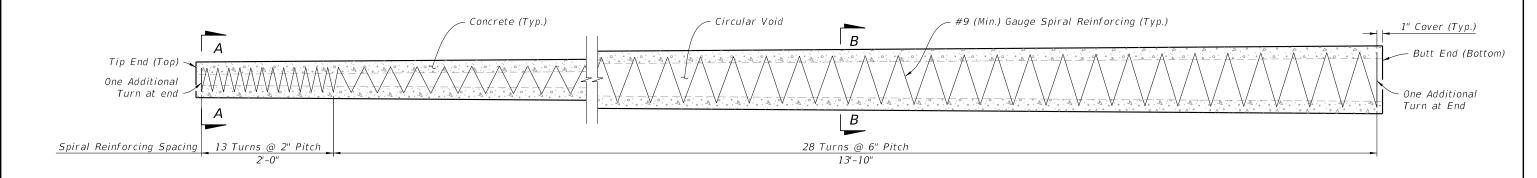
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STANDARD PLANS

CONCRETE POLES

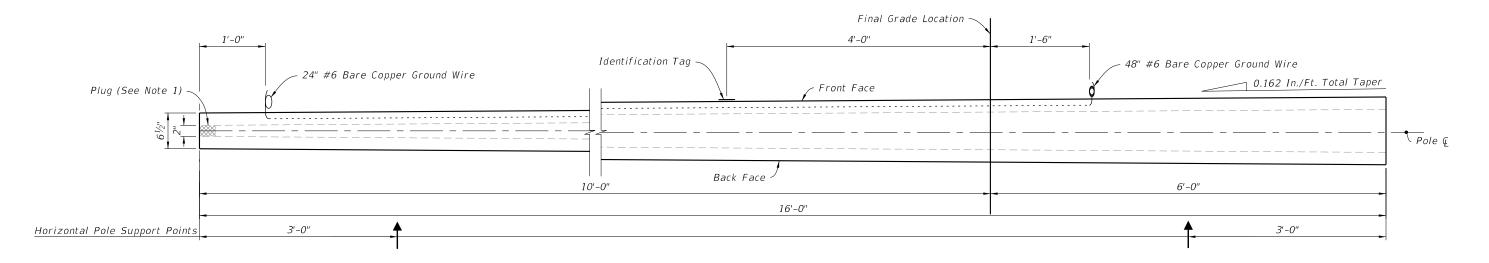
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SPIRAL REINFORCING ELEVATION

(Strands and Fixtures Not Shown)

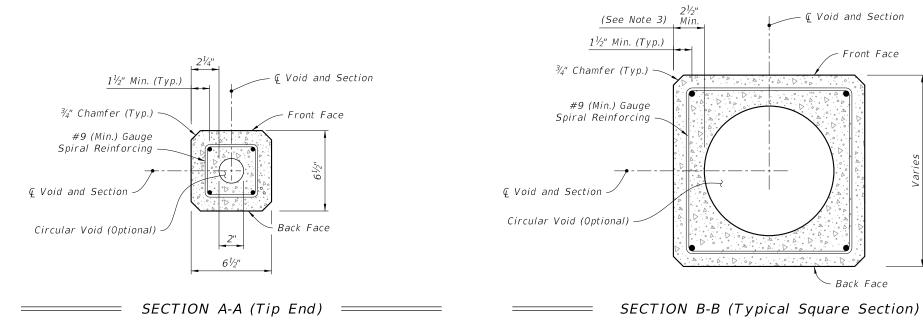


= POLE ELEVATION =

(Strands and Reinforcing Not Shown)

– & Void and Section

Front Face



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 5 feet from the Tip End.
- 3. Dimension may vary from $2\frac{1}{4}$ " to $3\frac{1}{2}$ " 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-IID (16 Ft.)

REVISION 11/01/22

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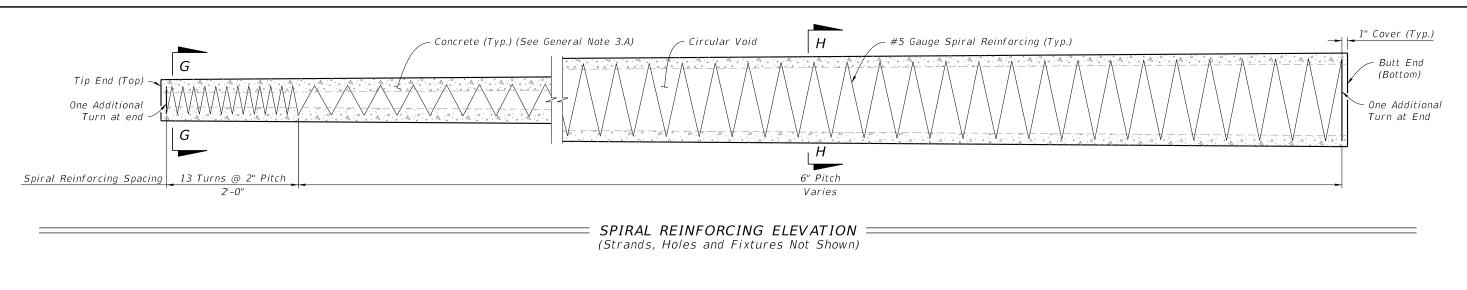
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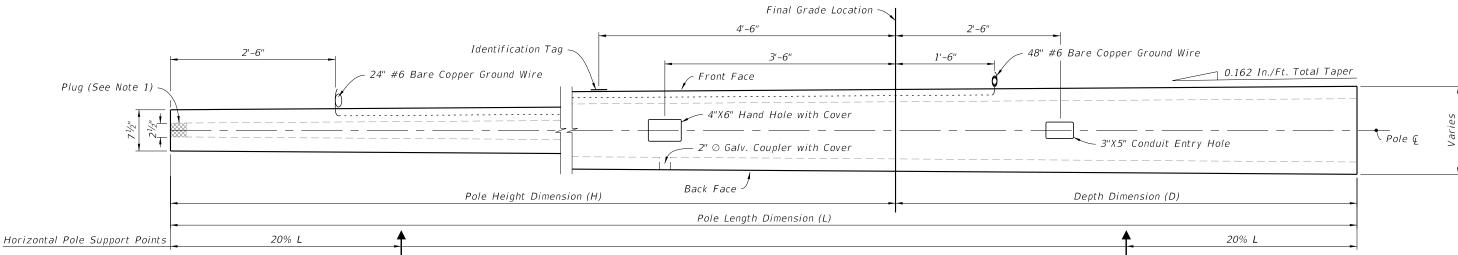
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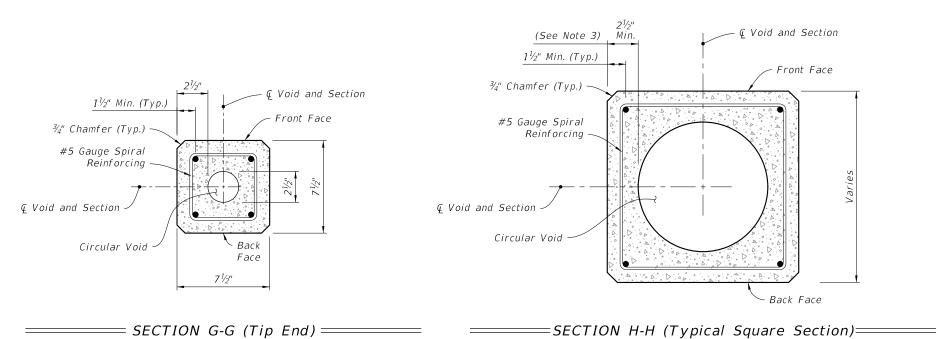
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= POLE ELEVATION =(Strands and Reinforcing Not Shown)



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 33% L from the Tip End.
- 3. Dimension may vary from $2\frac{1}{2}$ " to $3\frac{3}{4}$ " 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: 0.5 in. ~ 31 kips before transfer (4 strands total)

POLE TYPE P-III

DESCRIPTION: LAST REVISION 11/01/22

FDOT

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CONCRETE POLES

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