
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 18, 2022

Originator: Joshua Turley/Jose Armenteros

Phone: (850) 414-4475

Email: Joshua.turley@dot.state.fl.us

Standard Plans:

Index Number: 641-010

Sheet Number (s): All

Index Title:
Concrete Poles

Summary of the changes:

All Sheets: Renumbered

Sheet 1: Change Note 3.A reference to Class V Special to Class V.

Sheet 5: Added new sheet for a new 16 ft pole version P-IID.

Commentary / Background:

SMO has proposed to remove Class V Special Concrete as an option from the Standard Specifications and therefore the Standard Plans must be updated.

This 16-foot pole was requested by Districts to accommodate project-specific service point designs. Electrical service point details for a 16-foot pole are under consideration for a future Standard Plans publication.

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

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☒	☐	Basis of Estimates Manual – Ryan Gray
☒	☐	Standard Specifications – Daniel Strickland
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes: (Submit package to Rick Jenkins)

Yes	N/A	
☒	☐	Redline Mark-ups
☒	☐	Revised or Proposed Standard Plan Instruction (SPI)
☐	☐	Other Support Documents

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

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

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~~ with 4 ksi minimum strength at transfer or Class VI with 6.5 ksi minimum strength at transfer Specification 641

B. Prestress Strands & Spiral Reinforcing:

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 ".

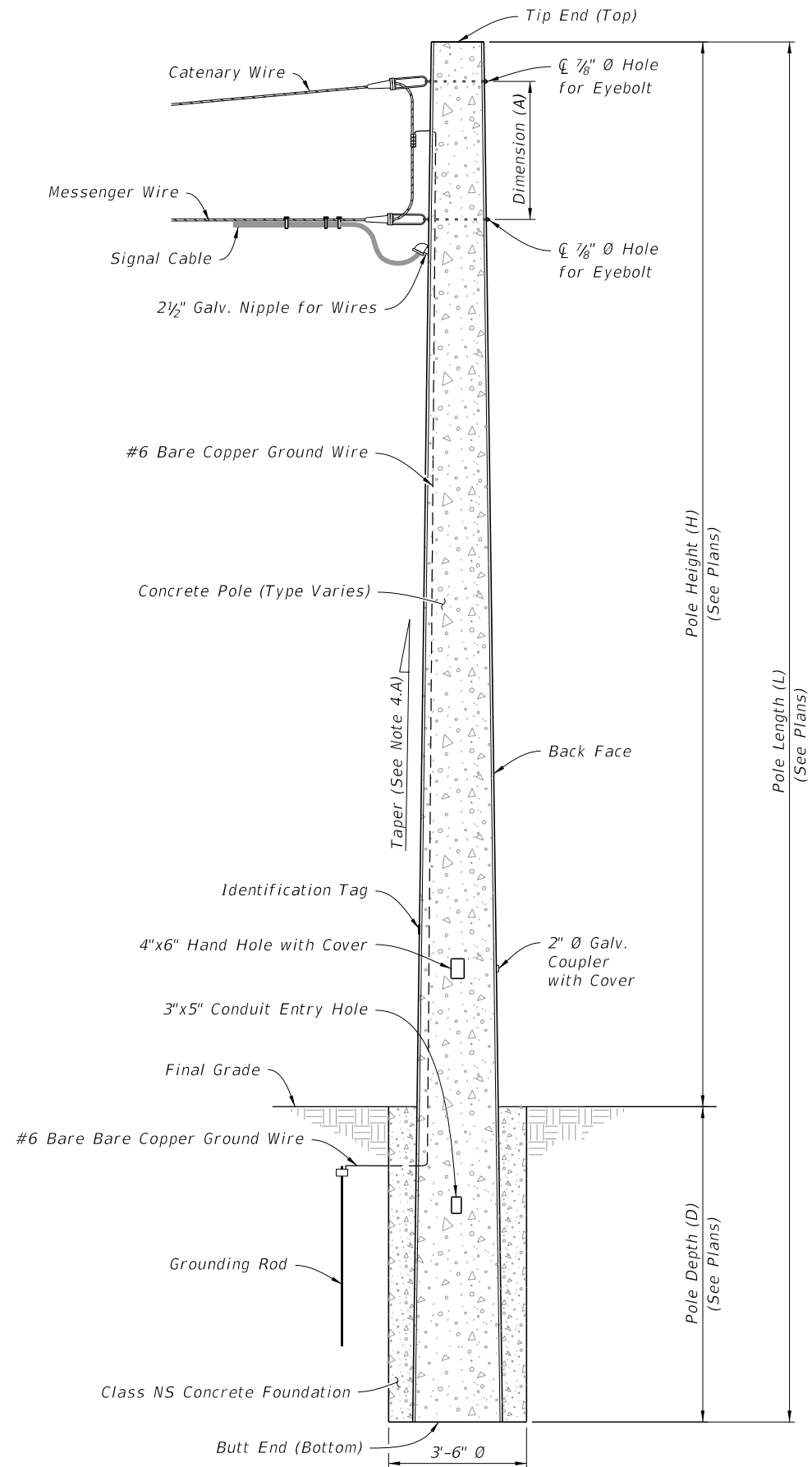
Horizontal Pole Support Points shown are for strand release, storage, handling and transport of the horizontal pole. Keep Back Face oriented downward until final erection.

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.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Service Pole - Type P-IIA (12 ft.)
3	Service Pole - Type P-IIB (36 Ft.)
4	Pedestal Pole - Type P-IIC (12 Ft.)
5	Pole - Type P-III
6	Strain Pole - Type P-IV
7	Strain Pole - Type P-V
8	Strain Pole - Type P-VI
9	Strain Pole - Type P-VII
10	Strain Pole - Type P-VIII



CONCRETE POLE ASSEMBLY
(Type P-VII Shown, Others Similar)

Renumbered

11:14:59 AM
9/22/2021

LAST REVISION	DESCRIPTION:
11/01/21	11/01/22

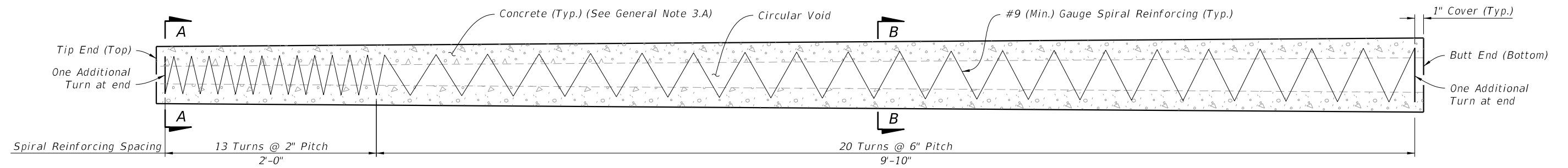


FY 2022-23
STANDARD PLANS

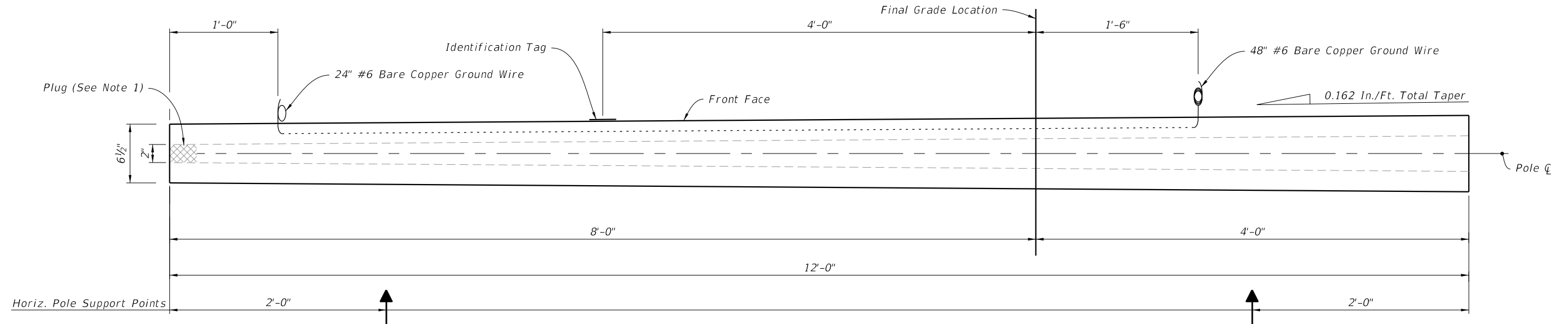
CONCRETE POLES

INDEX
641-010

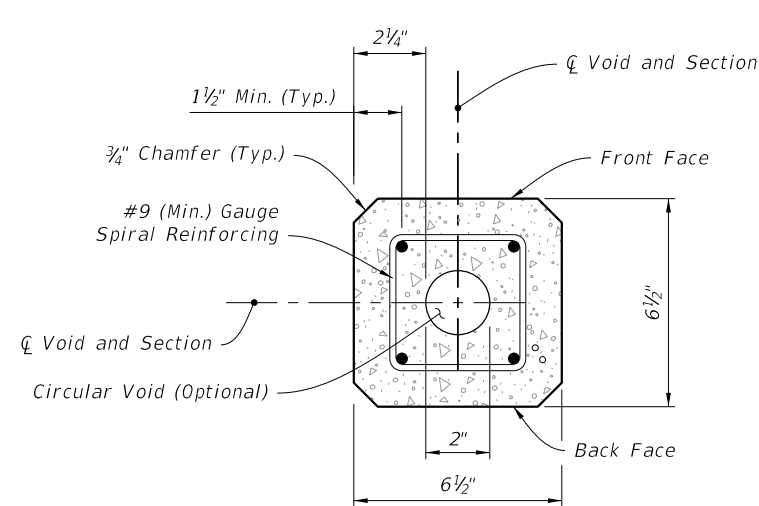
SHEET
1 of 10 11



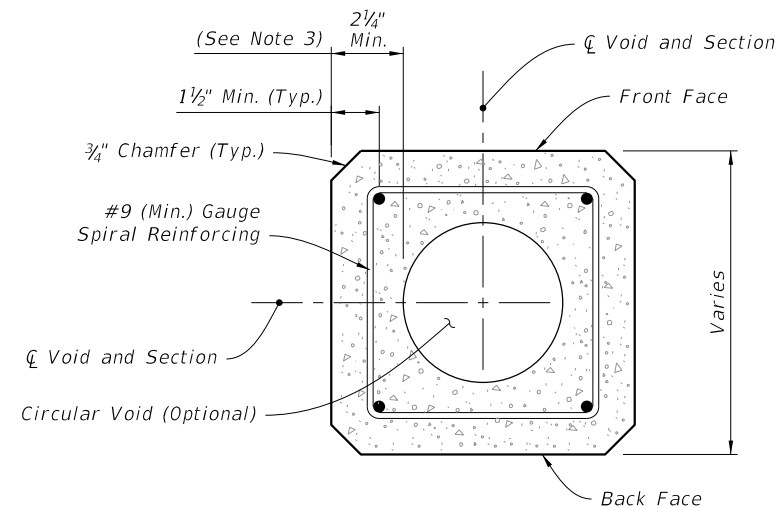
SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A - (Tip End)



SECTION B-B (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 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 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.

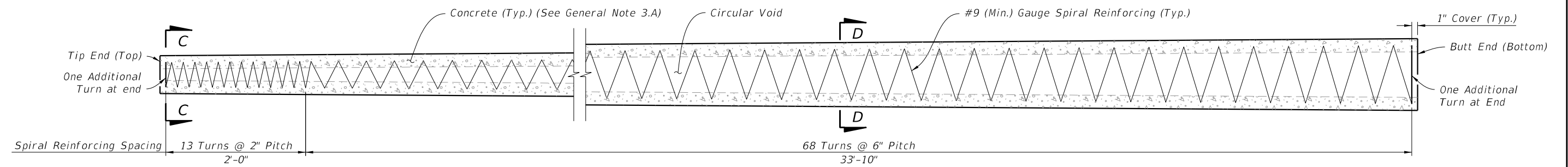
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer (4 strands total)

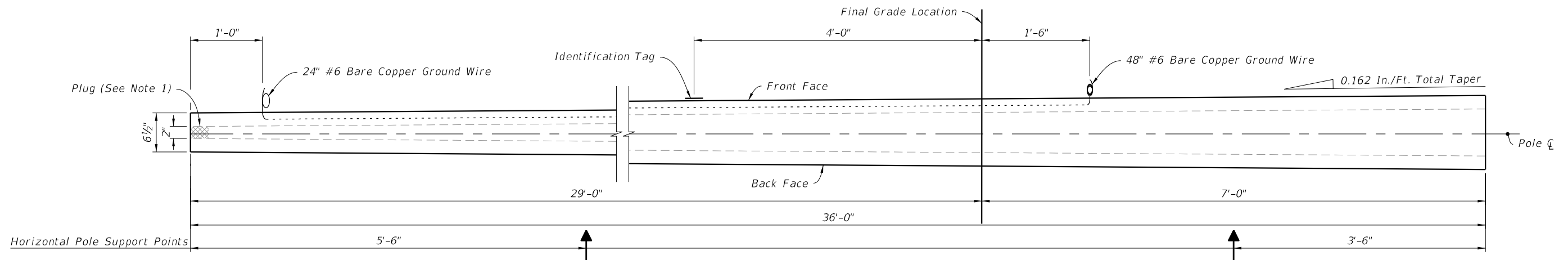
Renumbered
SERVICE POLE - TYPE P-IIA (12 Ft.)

9/22/2021 11:15:04 AM

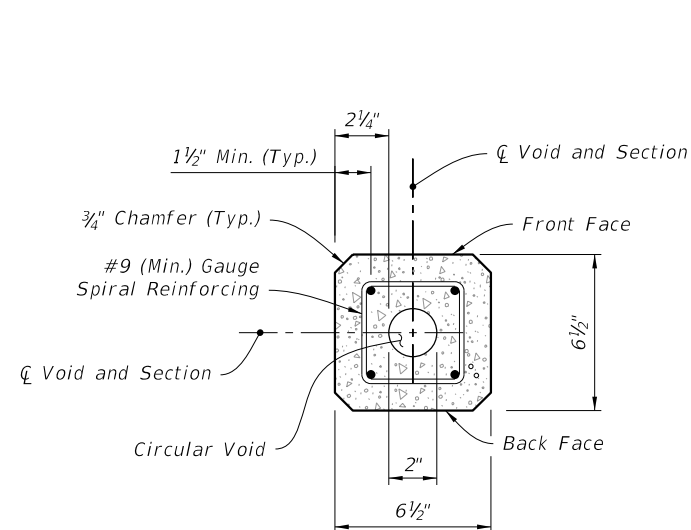
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FDOT FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 2 of 10 11
--	---	--	-----------------------	--------------------------	------------------------------------



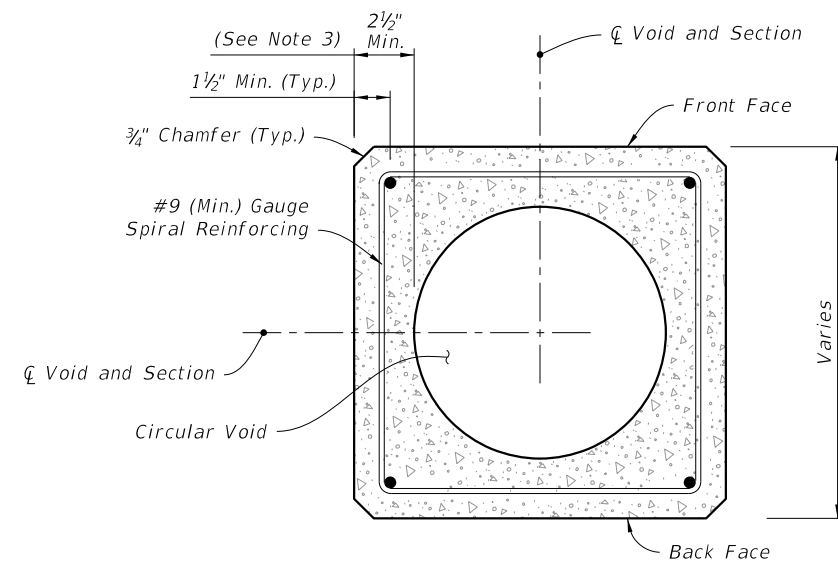
SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION C-C (Tip End)



SECTION D-D (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 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 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.

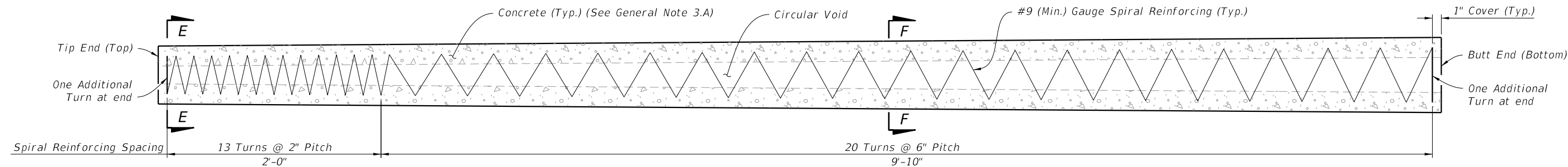
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

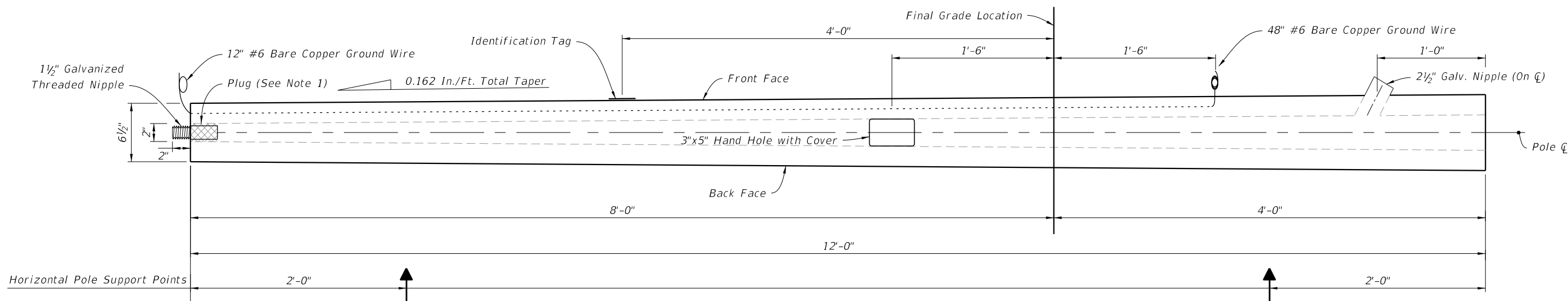
Renumbered
SERVICE POLE TYPE P-IIB (36 Ft.)

9/22/2021 11:15:10 AM

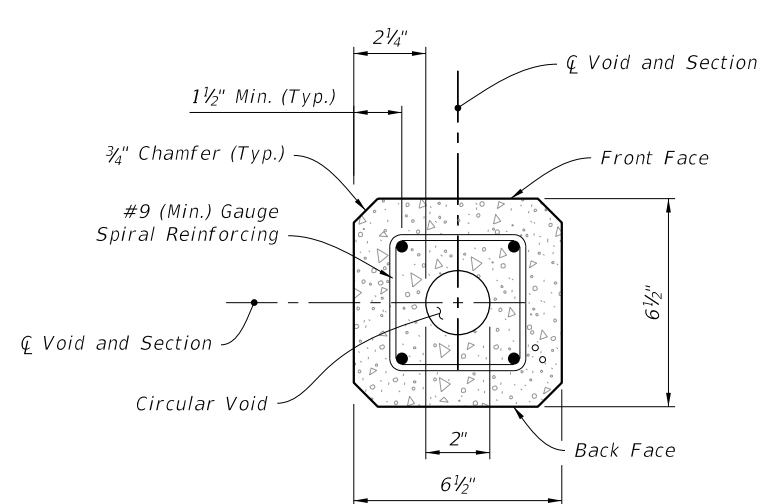
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	 FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 3 of 10 11
-------------------------------------	---------------------------------	--	-----------------------	-------------------------	-----------------------------------



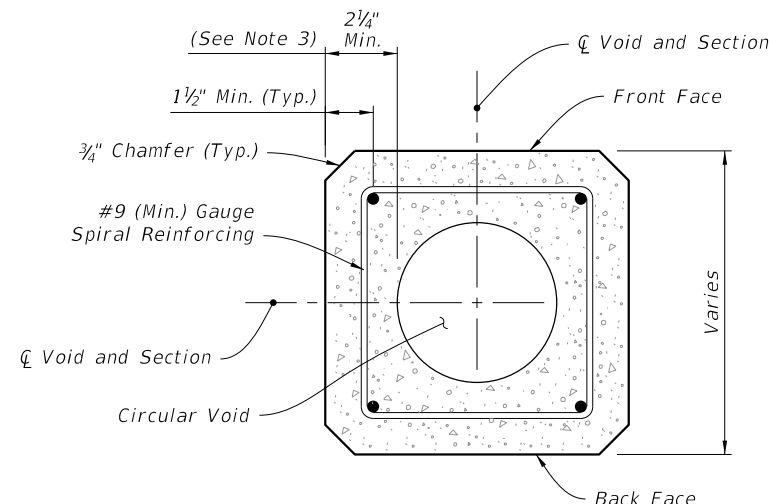
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION E-E (Tip End)



SECTION F-F (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 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 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)

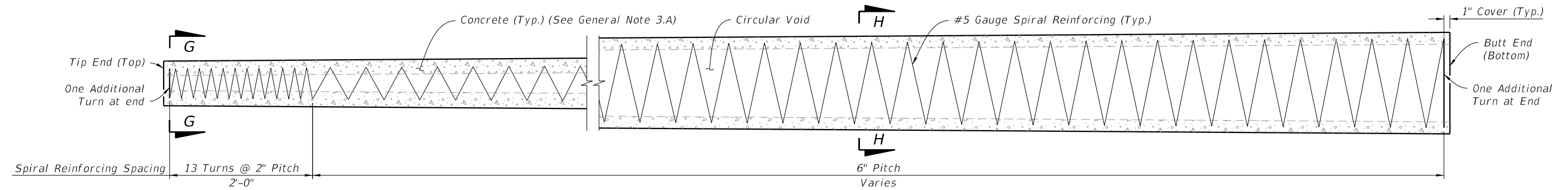
Renumbered
PEDESTAL - TYPE P-IIC (12 Ft.)

9/22/2021 11:15:15 AM

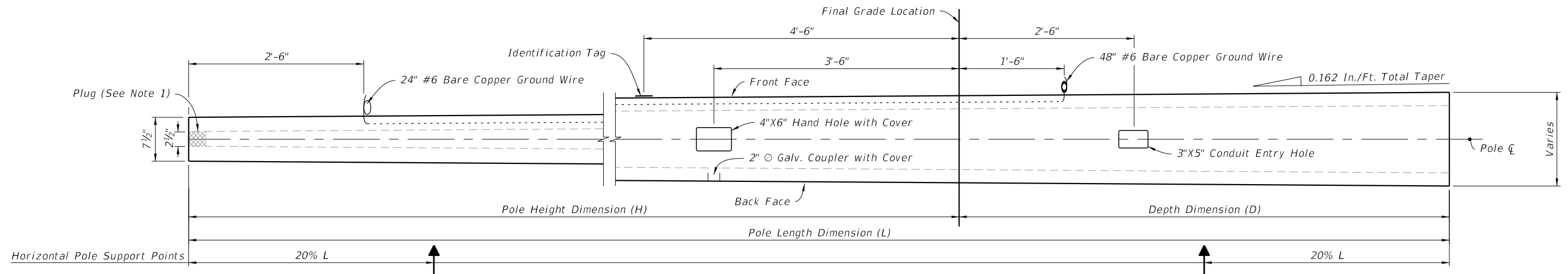
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	 FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 4 of 10 11
--------------------------------------	--------------------------	--	----------------	------------------	----------------------------

NEW SHEET 5

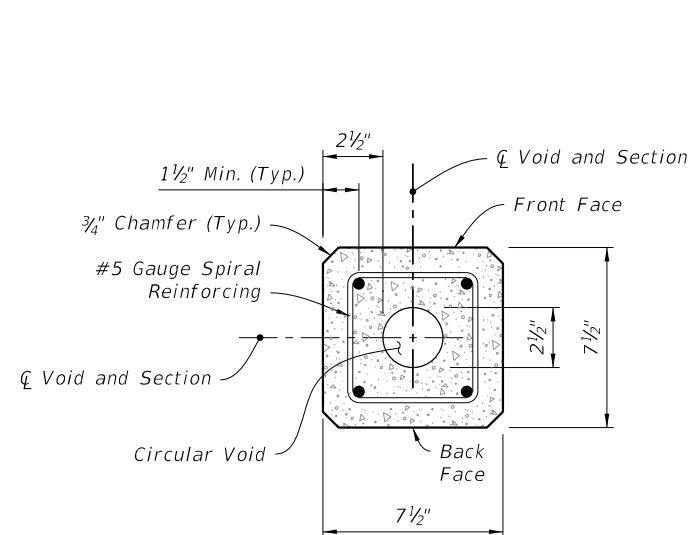
SERVICE POLE - TYPE 11D (16 Ft.)



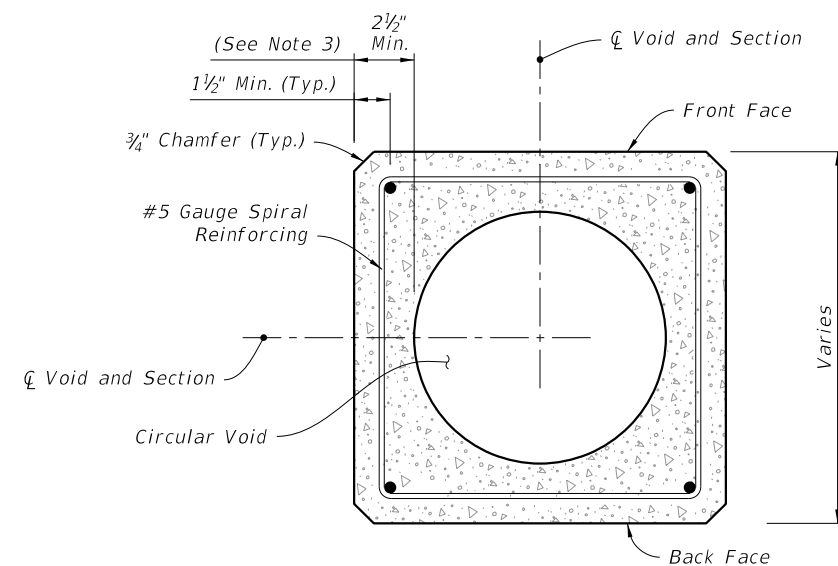
SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION G-G (Tip End)



SECTION H-H (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 33% L from the Tip End.
3. Dimension may vary from 2 1/2" to 3 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

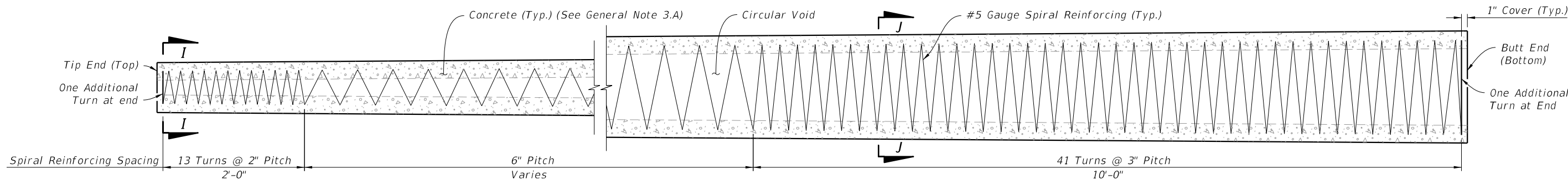
LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (4 strands total)

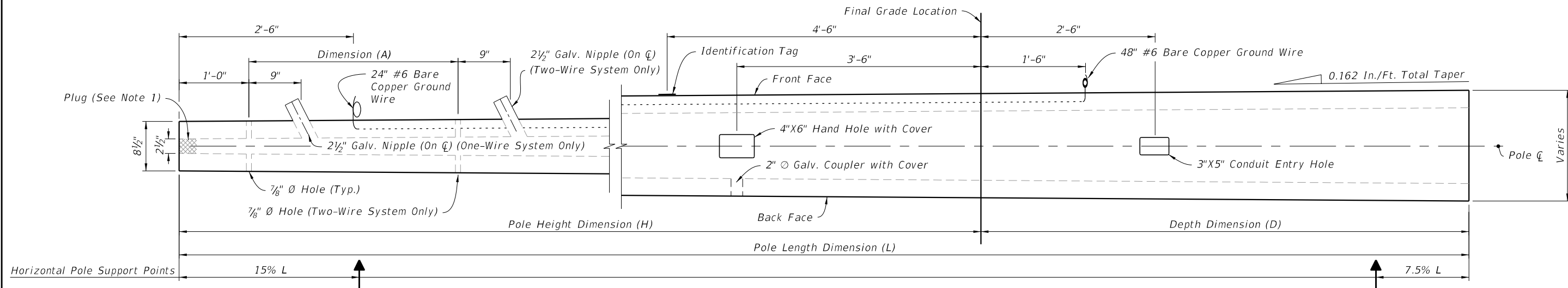
Renumbered
POLE TYPE P-III

9/22/2021 11:15:19 AM

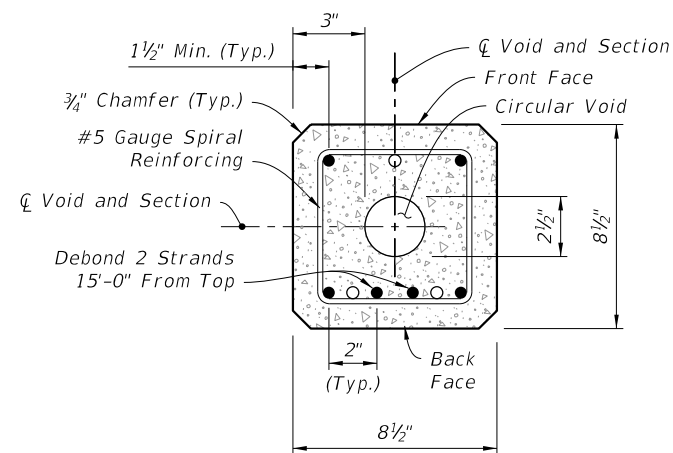
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FDOT FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 6 of 10
--	---	---	---	---------------------------------	---------------------------------



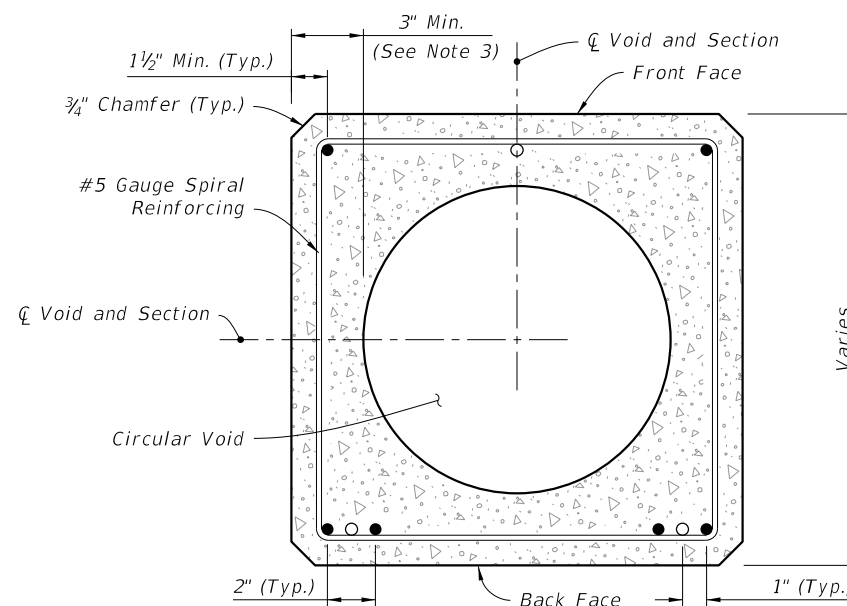
SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION I-I (Tip End)



SECTION J-J (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 20% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

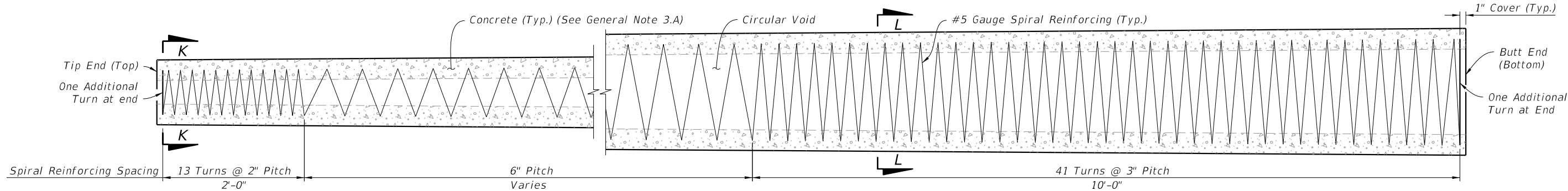
LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (6 strands total)
- Dormant Strand:
0.5 in. (3 strands total) One 24" splice allowed per strand

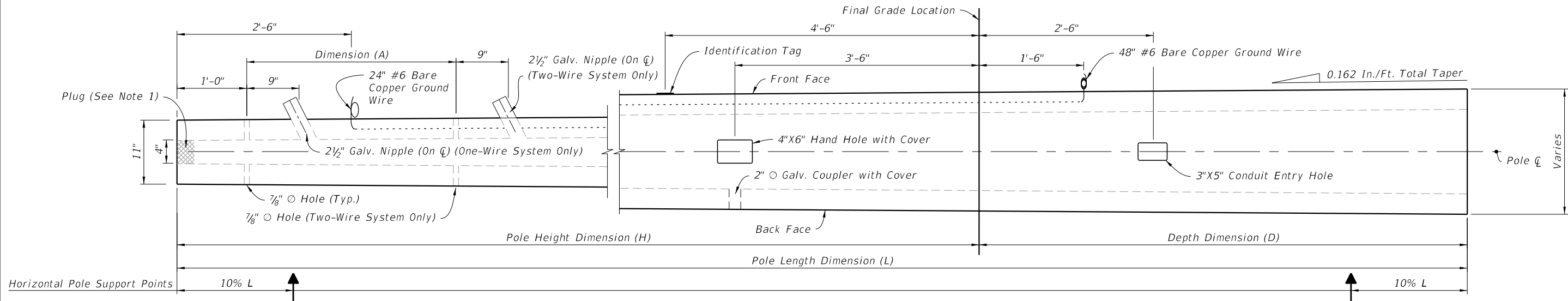
Renumbered
STRAIN POLE TYPE P-IV

9/22/2021 11:15:24 AM

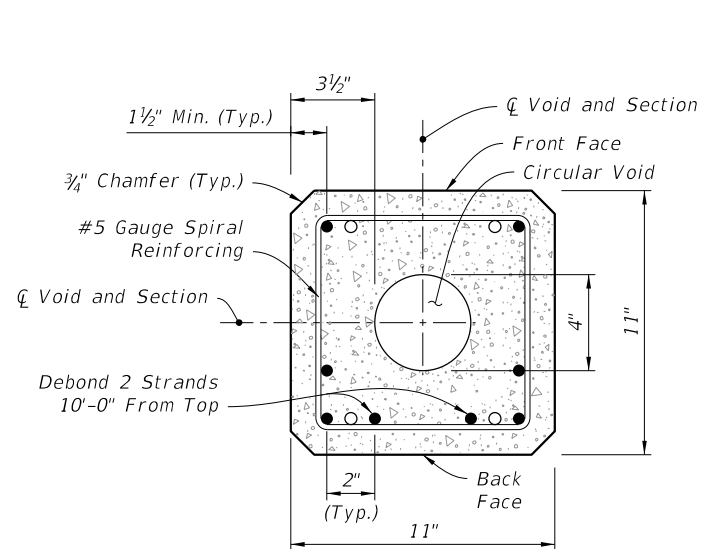
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 7 of 10
--------------------------------------	-------------------------------------	---	-----------------------	-----------------------------	-----------------------------



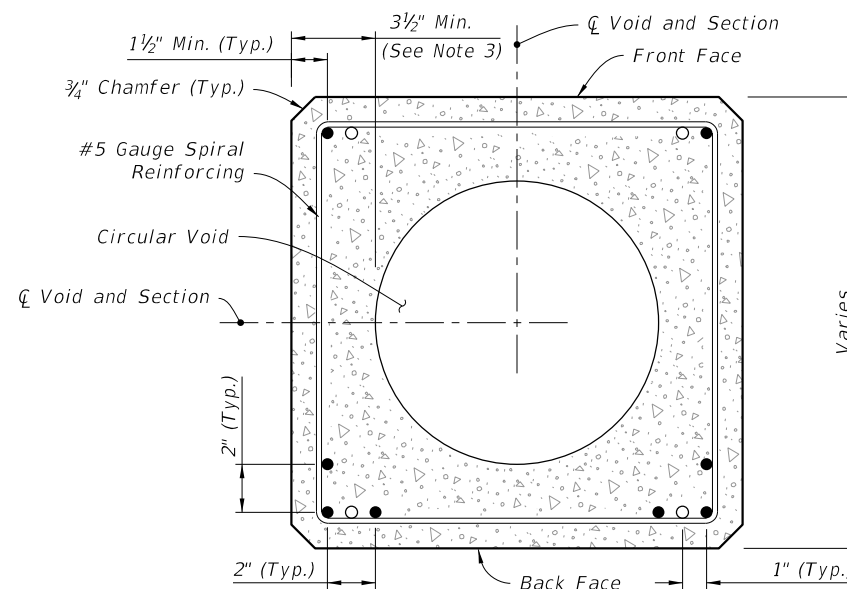
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION K-K (Tip End)



SECTION L-L (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 12.5% L from the Tip End.
3. Dimension may vary from 3 1/2" to 4 3/4" 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.

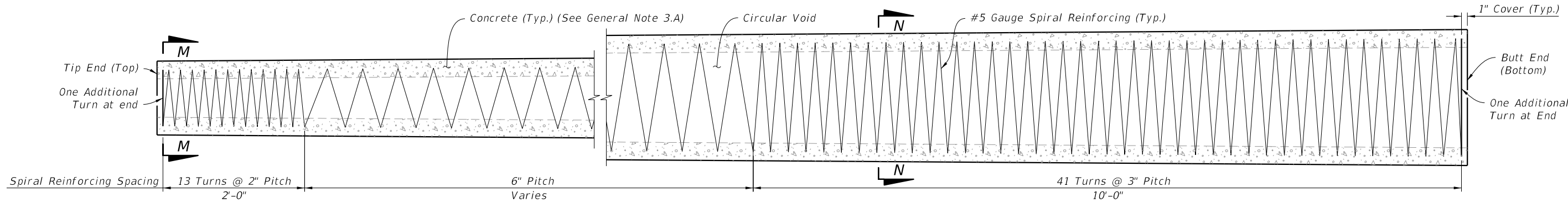
LEGEND:

- 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

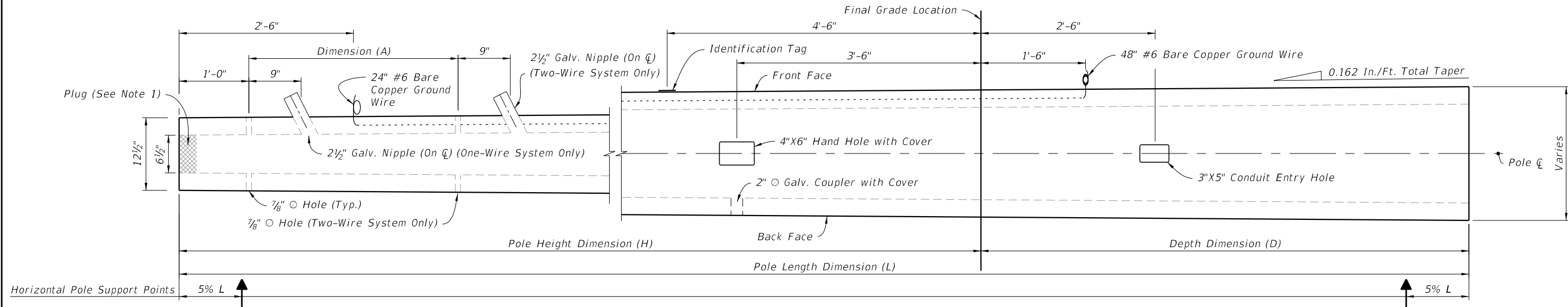
Renumbered
STRAIN POLE TYPE P-V

9/22/2021 11:15:30 AM

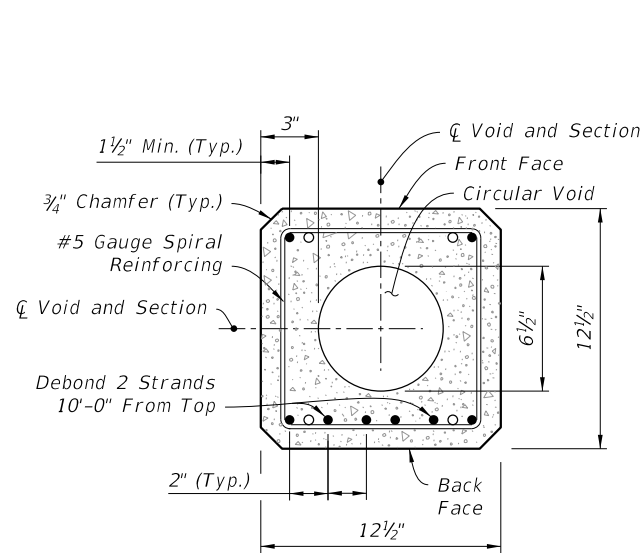
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	 FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 8 of 11
--------------------------------------	--------------------------	--	----------------	------------------	------------------



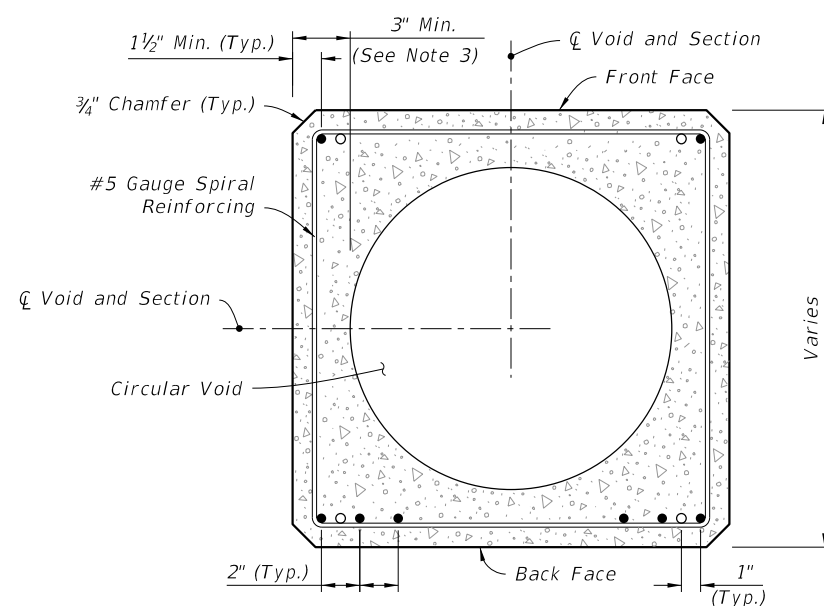
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION M-M (Tip End)



SECTION N-N (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" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

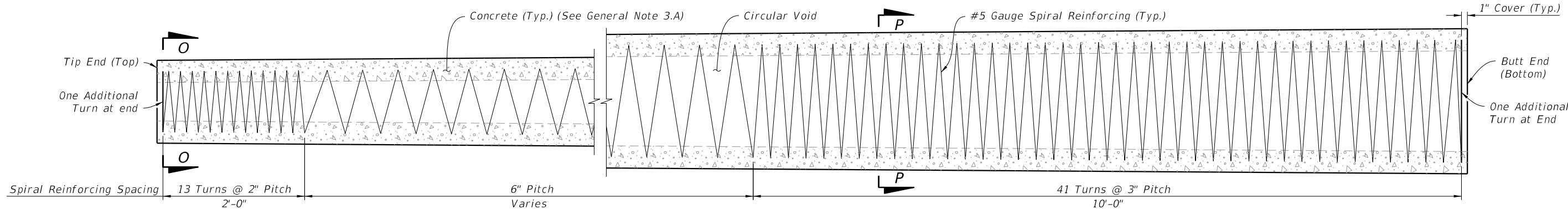
LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (8 strands total)
- Dormant Strand:
0.5 in. (4 strands total) One 24" splice allowed per strand

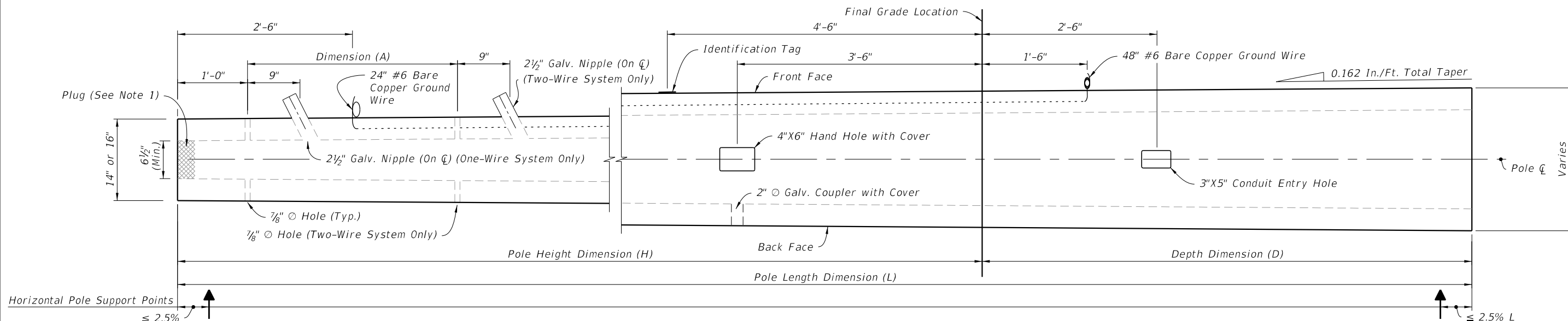
Renumbered
STRAIN POLE TYPE P-VI

9/22/2021 11:15:34 AM

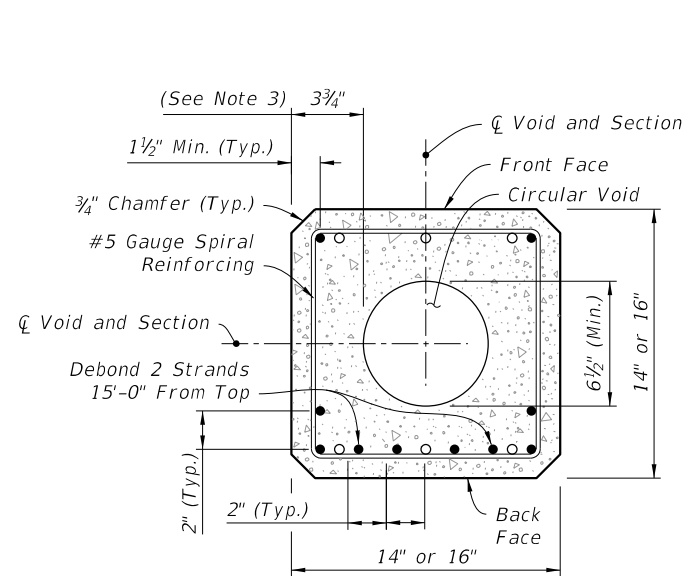
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FDOT FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 9 of 10
--------------------------------------	-------------------------------------	---	-----------------------	-----------------------------	-----------------------------



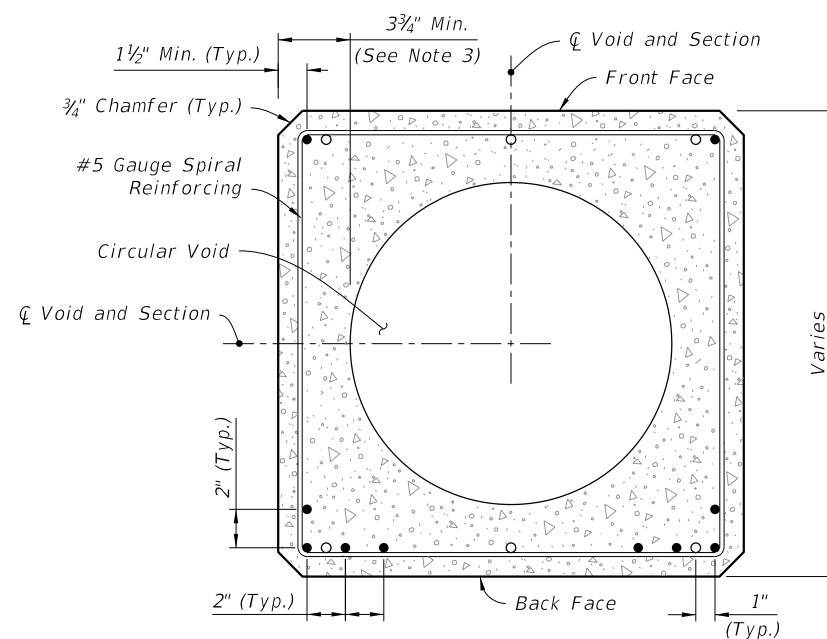
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION O-O (Tip End)



SECTION P-P (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 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

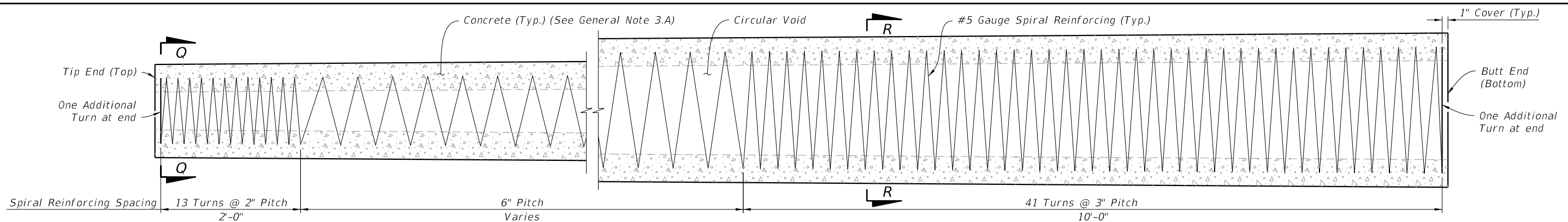
LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (10 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

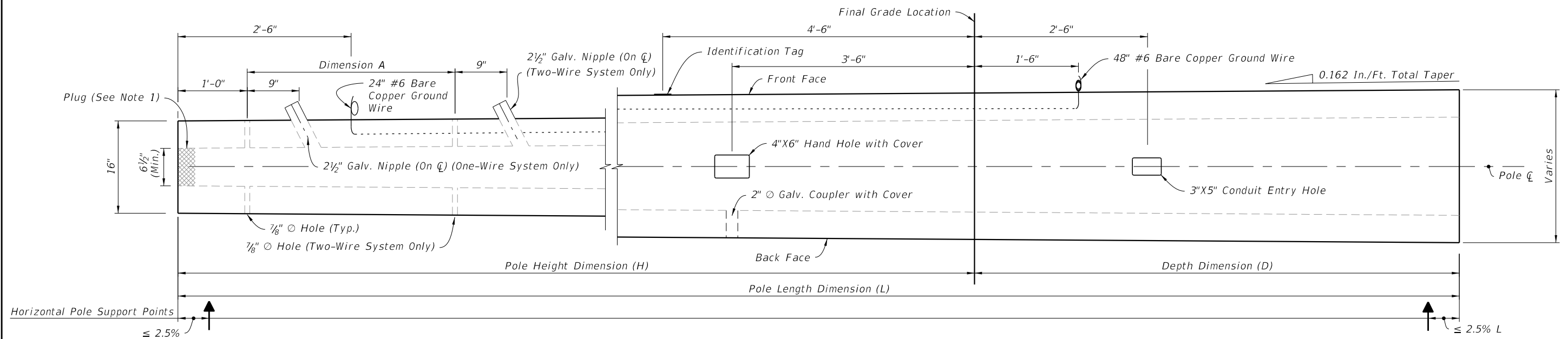
Renumbered
STRAIN POLE TYPE P-VII

9/22/2021 11:15:40 AM

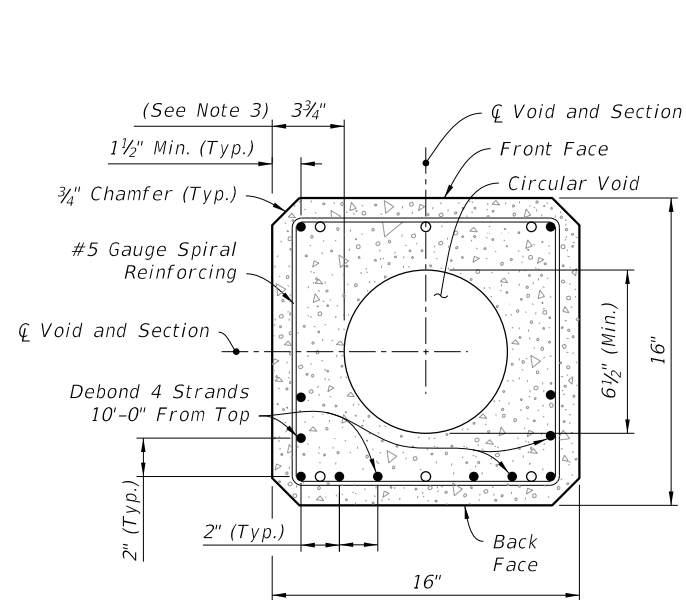
LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-01C	SHEET 10 of 11
--------------------------------------	--------------------------	------------------------------	----------------	------------------	-------------------



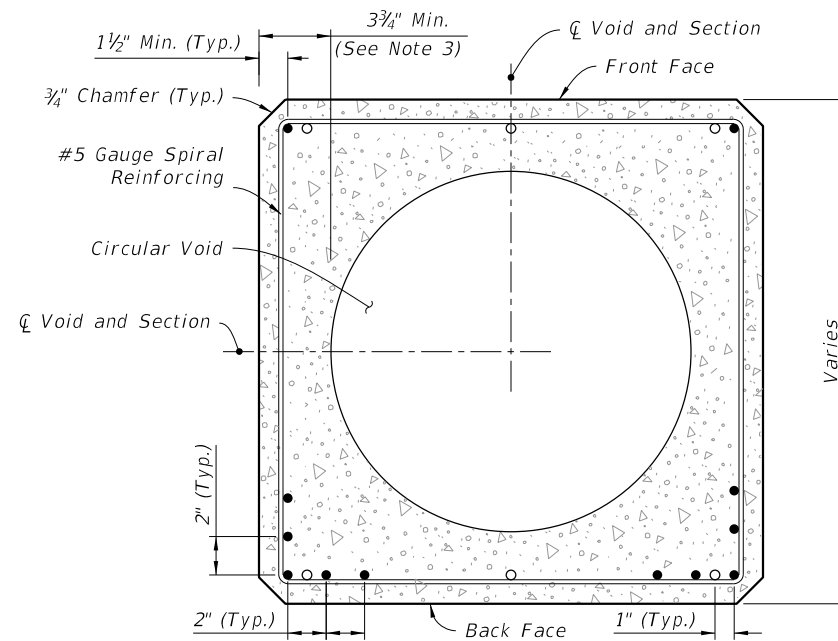
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing 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 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 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 (12 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

Renumbered
STRAIN POLE TYPE P-VIII

9/22/2021 11:15:45 AM

LAST REVISION 11/01/21	DESCRIPTION: 11/01/22	FDOT FY 2022-23 STANDARD PLANS	CONCRETE POLES	INDEX 641-01C	SHEET 11 of 10
--------------------------------------	-------------------------------------	---	-----------------------	-----------------------------	------------------------------

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.

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

A. Concrete:	Class V 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

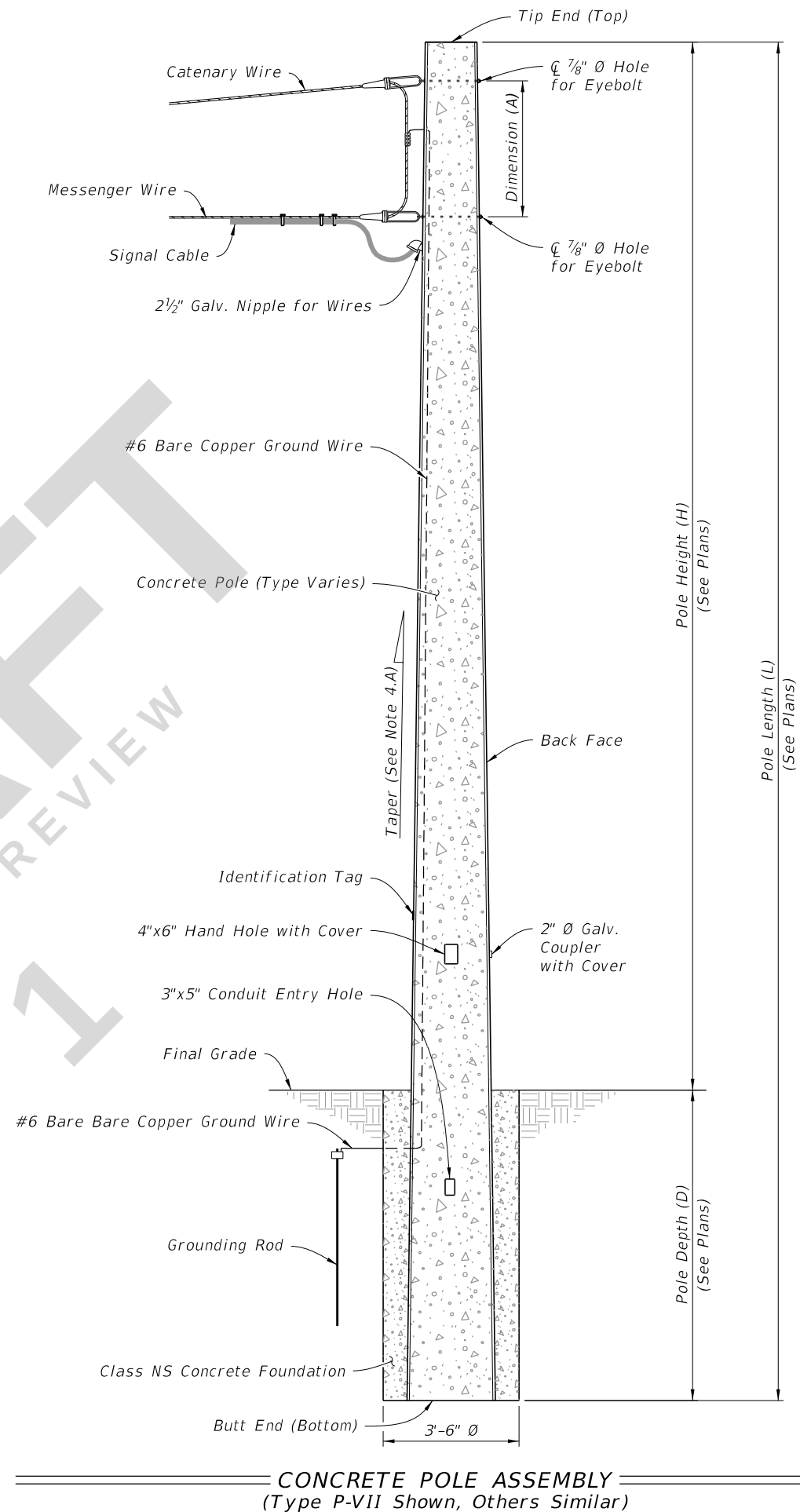
- A. Pole Total Taper shown is for pole width, strands, reinforcement and void (0.081 in/ft per face).
- B. Concrete Cover: 1" minimum.
- C. Spiral Reinforcing: Place as shown, and add one turn for splices and two turns at both the tip and butt ends of the pole.
- D. The design dimensions for Front Face (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)

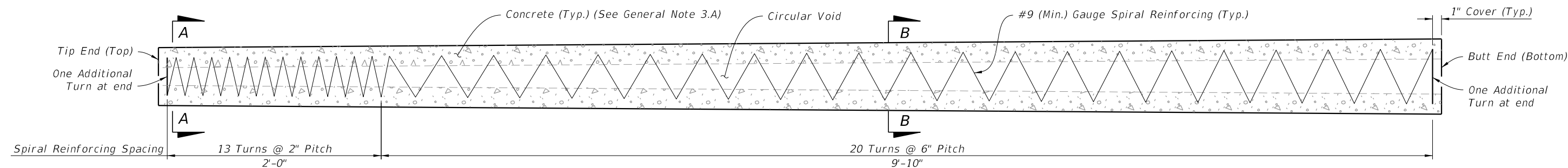
Support Points shown may vary within a tolerance of $\pm 3''$.

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.

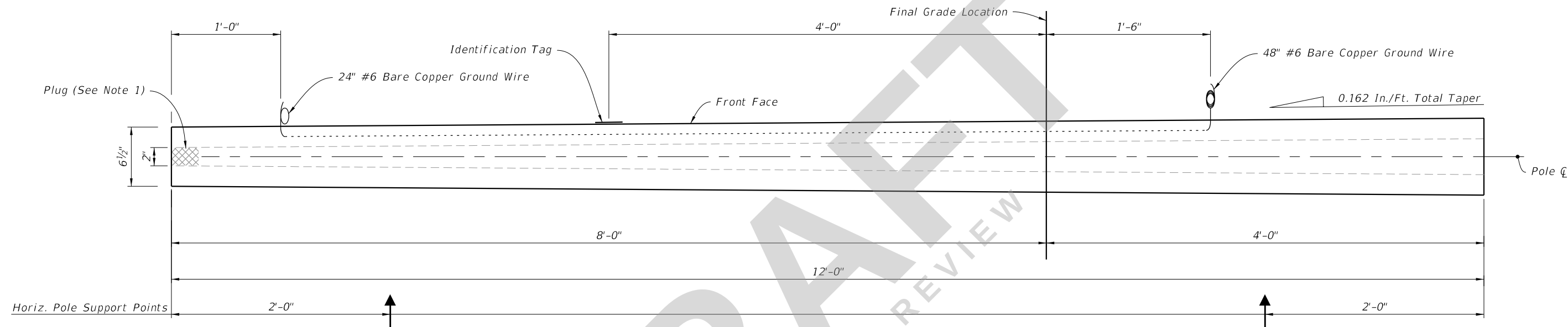
7. *Tether Wire: When required, field-drill the eyebolt hole prior to installation.*

Sheet	Description
<i>1</i>	<i>General Notes and Contents</i>
<i>2</i>	<i>Service Pole - Type P-IIA (12 ft.)</i>
<i>3</i>	<i>Service Pole - Type P-IIB (36 Ft.)</i>
<i>4</i>	<i>Pedestal Pole - Type P-IIC (12 Ft.)</i>
<i>5</i>	<i>Pedestal Pole - Type P-IID (16 Ft.)</i>
<i>6</i>	<i>Pole - Type P-III</i>
<i>7</i>	<i>Strain Pole - Type P-IV</i>
<i>8</i>	<i>Strain Pole - Type P-V</i>
<i>9</i>	<i>Strain Pole - Type P-VI</i>
<i>10</i>	<i>Strain Pole - Type P-VII</i>
<i>11</i>	<i>Strain Pole - Type P-VIII</i>

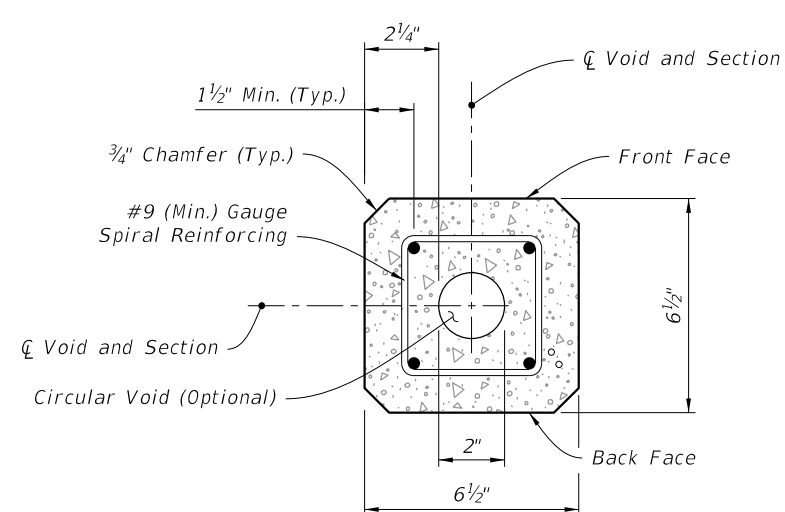




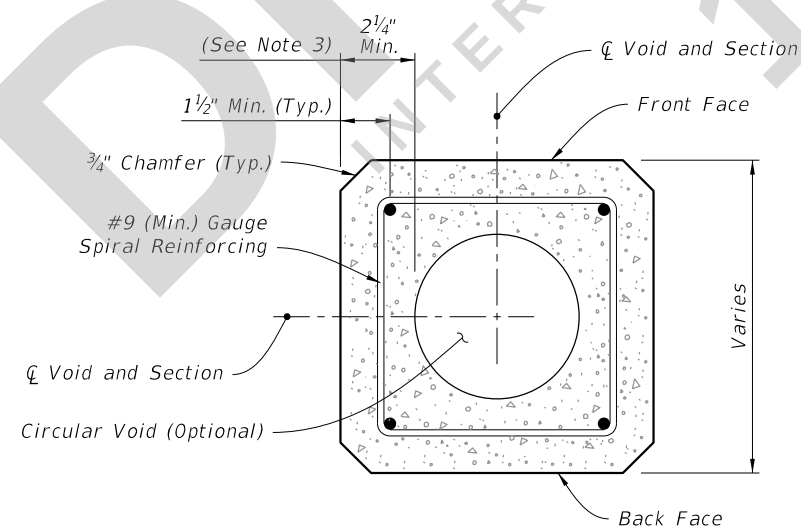
SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A - (Tip End)



SECTION B-B (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 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 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.

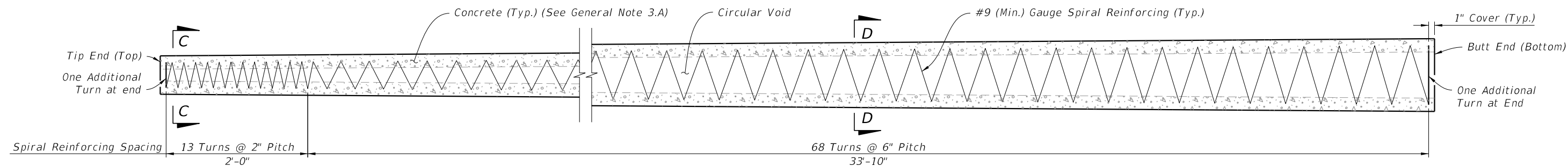
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer (4 strands total)

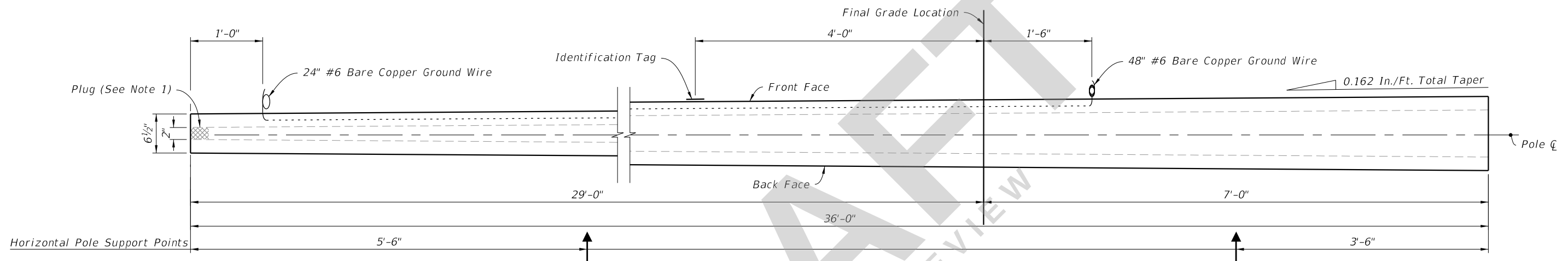
SERVICE POLE - TYPE P-IIA (12 Ft.)

4/20/2022 8:30:42 AM

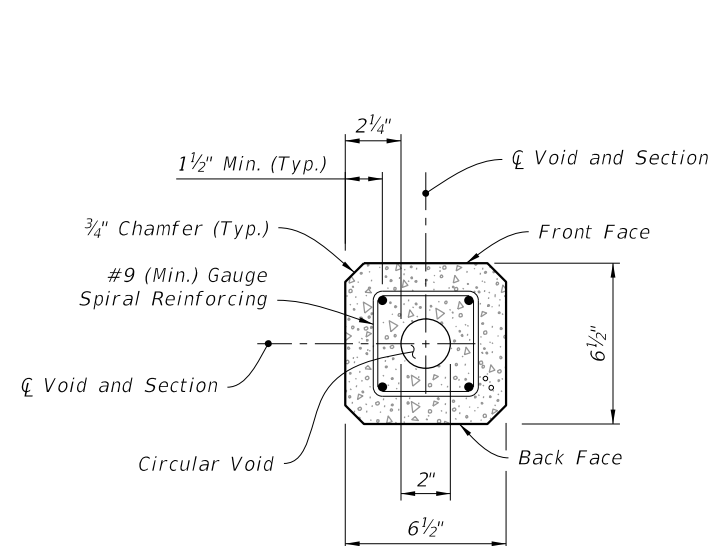
LAST REVISION 11/01/22	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-001	SHEET 2 of 11
------------------------------	--------------	--	-----------------------	-------------------------	-------------------------



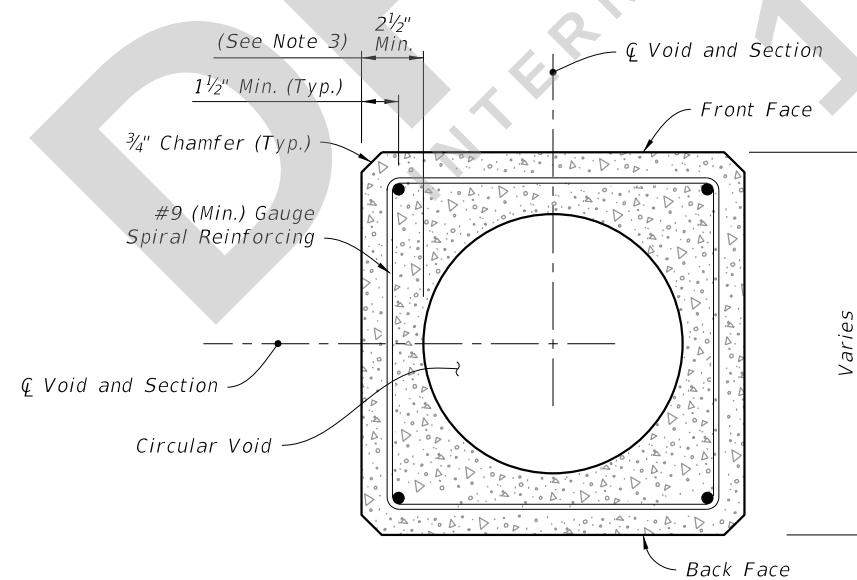
SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION C-C (Tip End)



SECTION D-D (Typical Square Section)

NOTES:

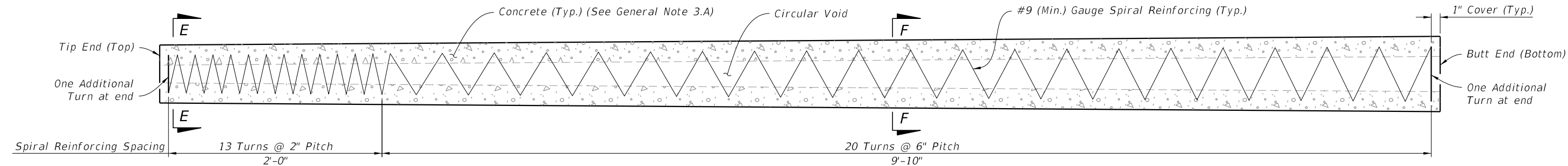
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter 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:

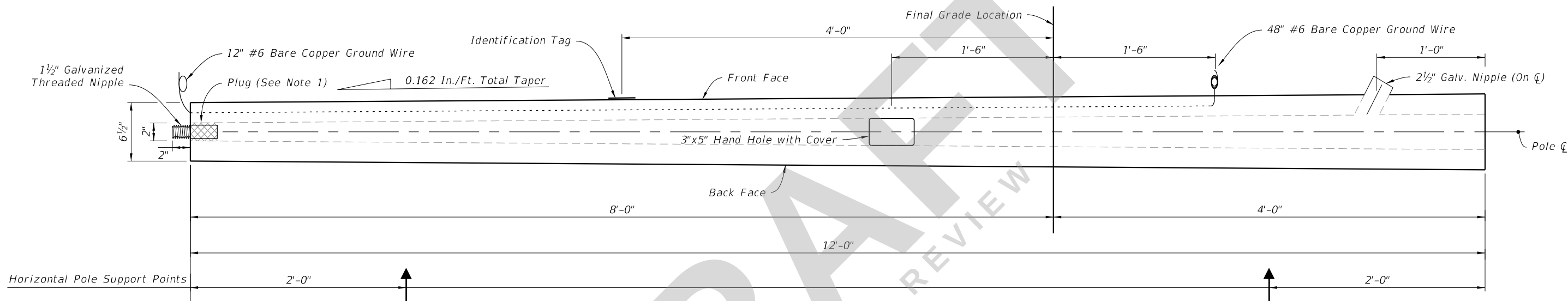
- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

SERVICE POLE TYPE P-IIB (36 Ft.)

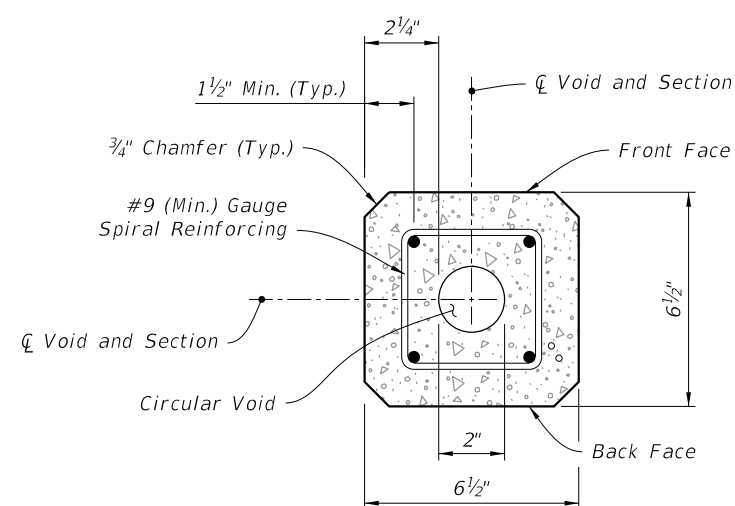
LAST REVISION 11/01/22	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-001	SHEET 3 of 11
------------------------------	--------------	------	------------------------------	----------------	------------------	------------------



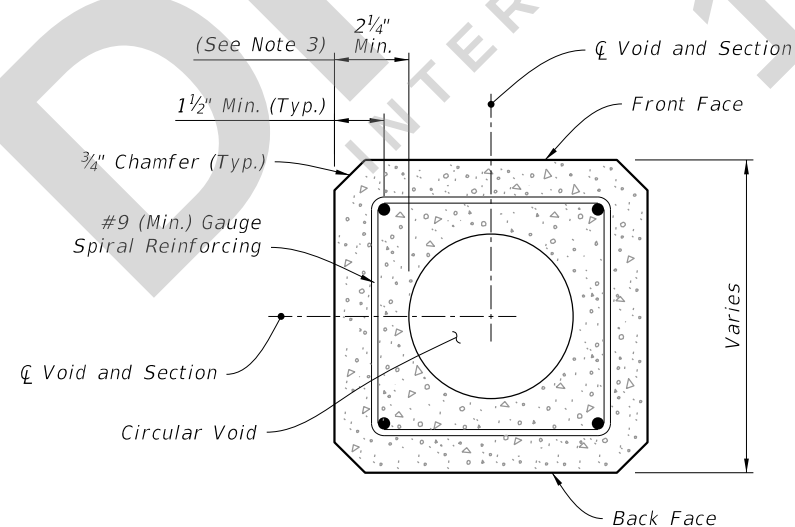
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION E-E (Tip End)



SECTION F-F (Typical Square Section)

NOTES:

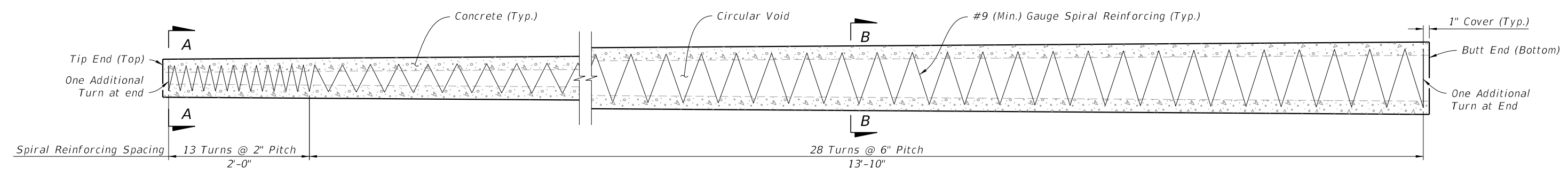
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter 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:

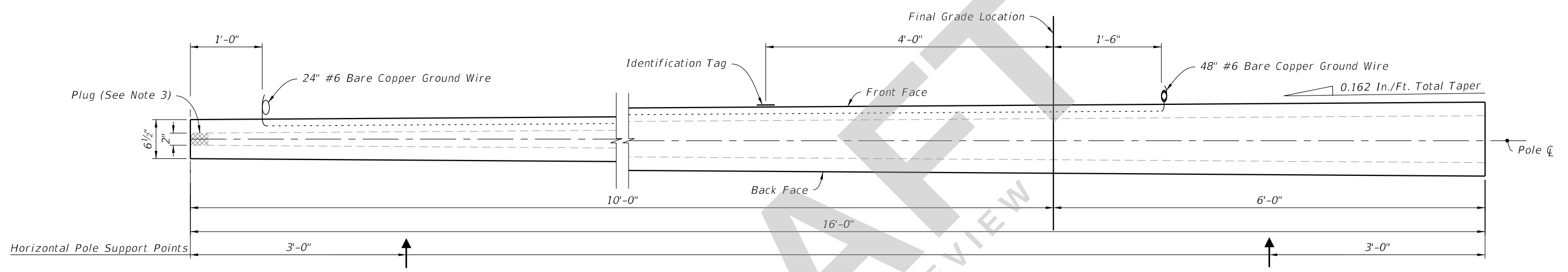
- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

PEDESTAL - TYPE P-IIC (12 Ft.)

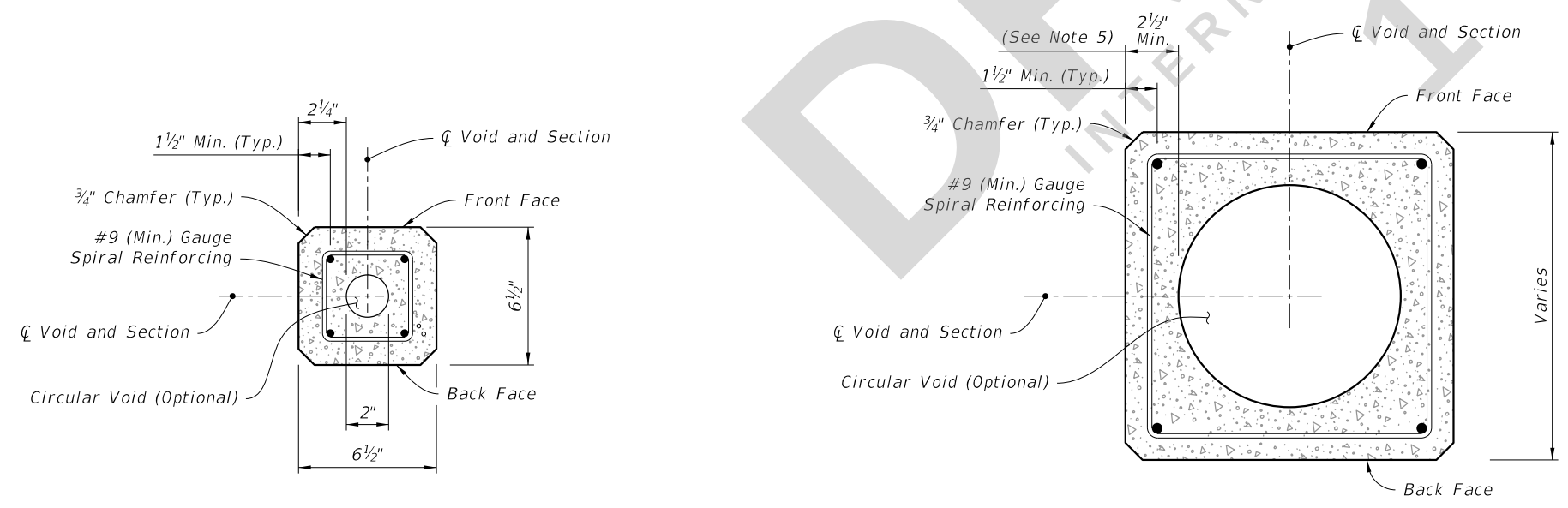
LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 4 of 11
------------------------------	----------	--------------	------	------------------------------	----------------	------------------	------------------



SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A (Tip End)

SECTION B-B (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 5 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 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.

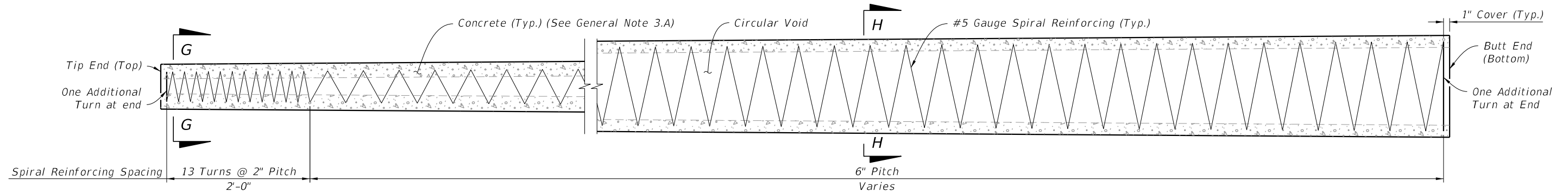
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

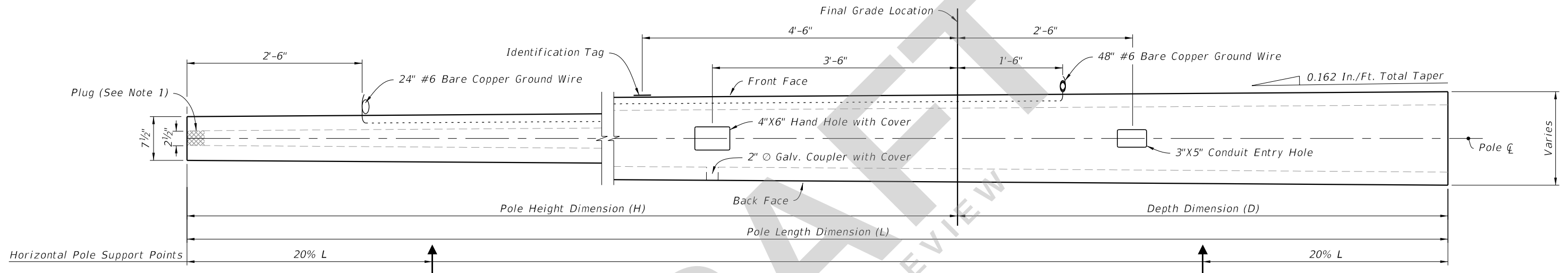
SERVICE POLE TYPE P-IID (16Ft.)

4/20/2022 8:30:45 AM

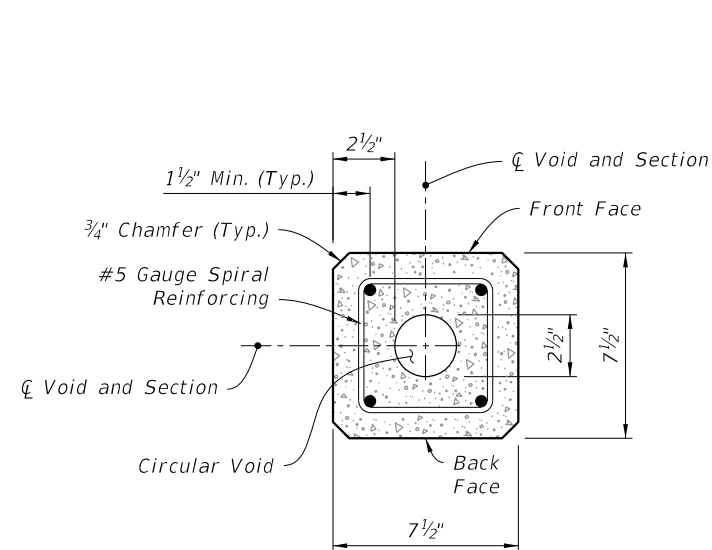
LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX	SHEET
11/01/22					641-010	5 of 11



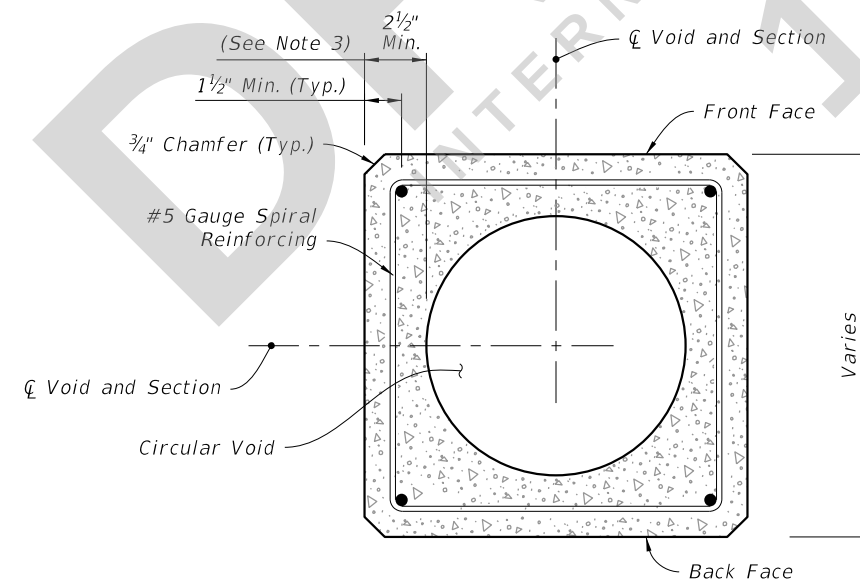
SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION G-G (Tip End)



SECTION H-H (Typical Square Section)

NOTES:

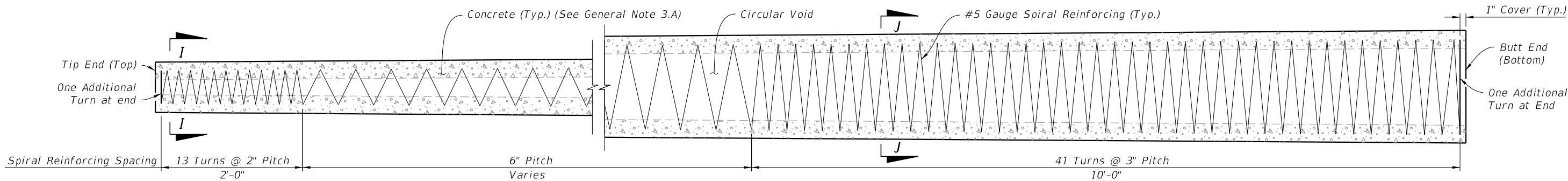
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 33% L from the Tip End.
3. Dimension may vary from 2 1/2" to 3 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 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:

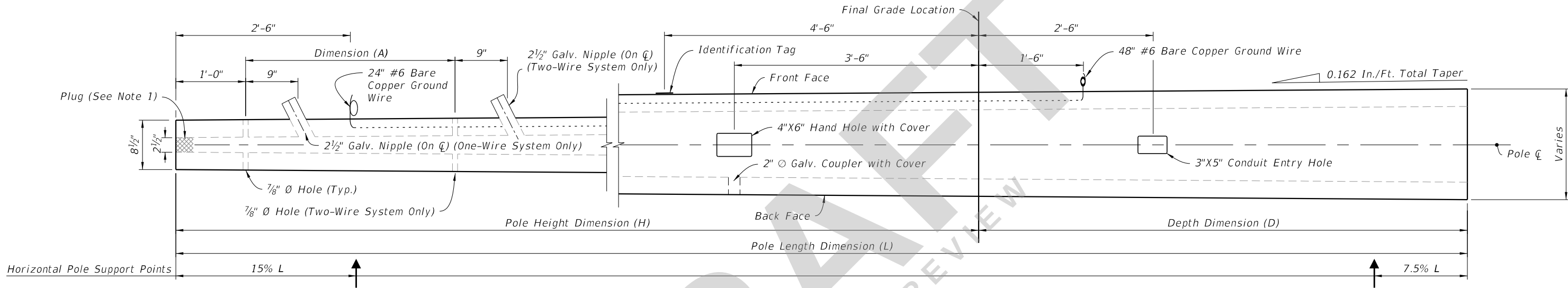
- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (4 strands total)

POLE TYPE P-III

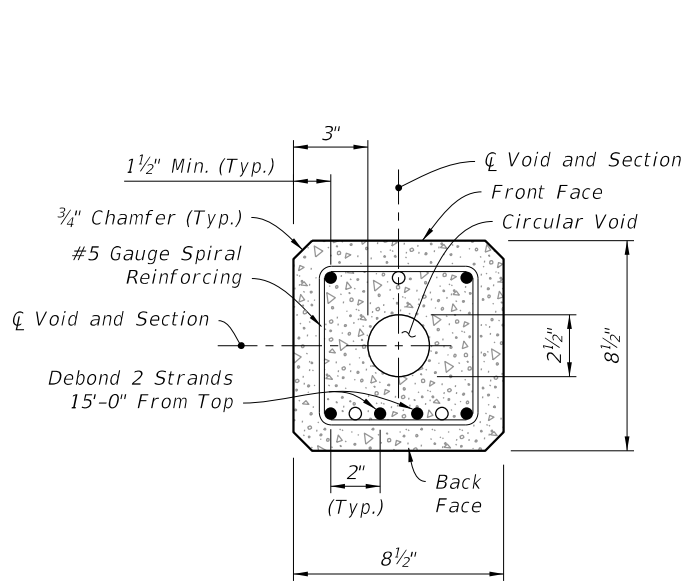
LAST REVISION 11/01/22	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 6 of 11
------------------------------	--------------	------	------------------------------	----------------	------------------	------------------



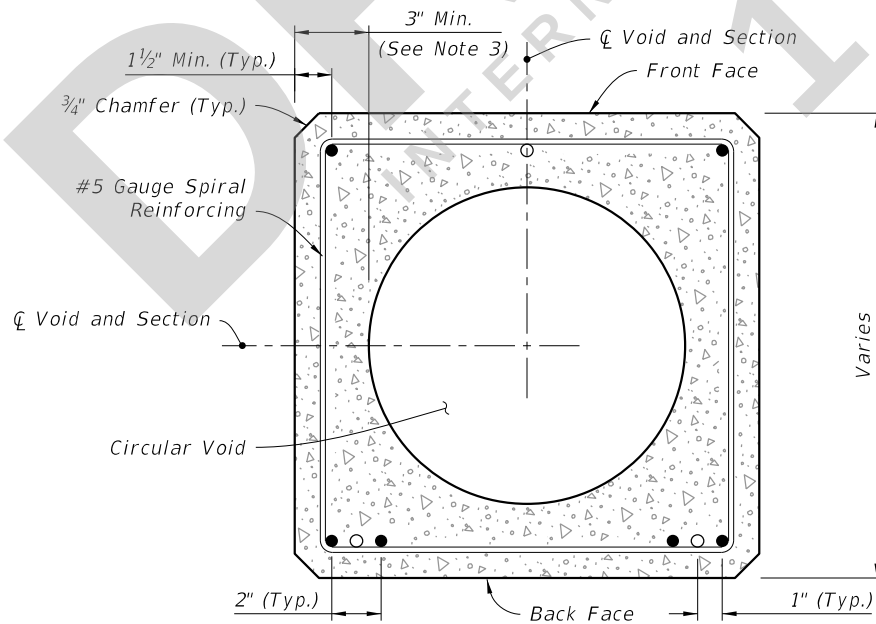
SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION I-I (Tip End)



SECTION J-J (Typical Square Section)

NOTES:

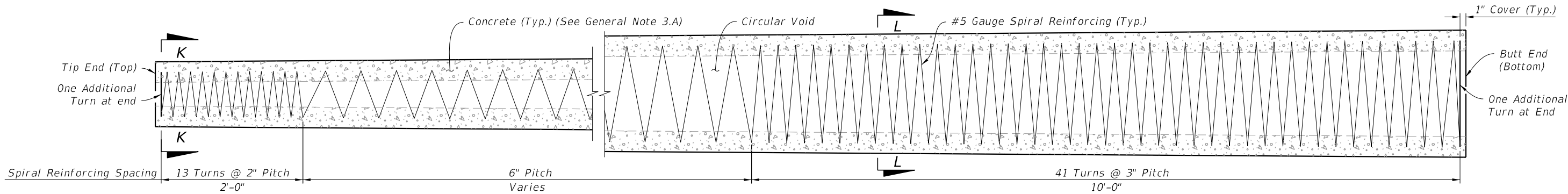
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 20% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 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:

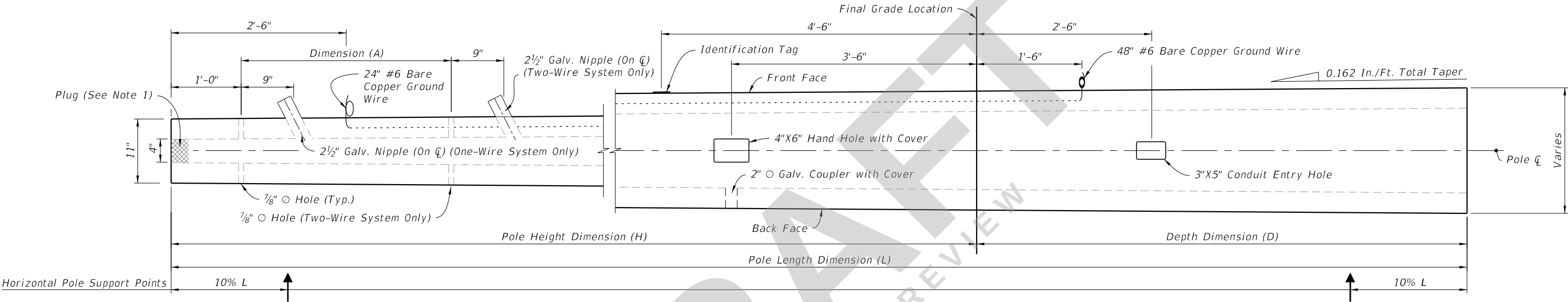
- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (6 strands total)
- Dormant Strand:
0.5 in. (3 strands total) One 24" splice allowed per strand

STRAIN POLE TYPE P-IV

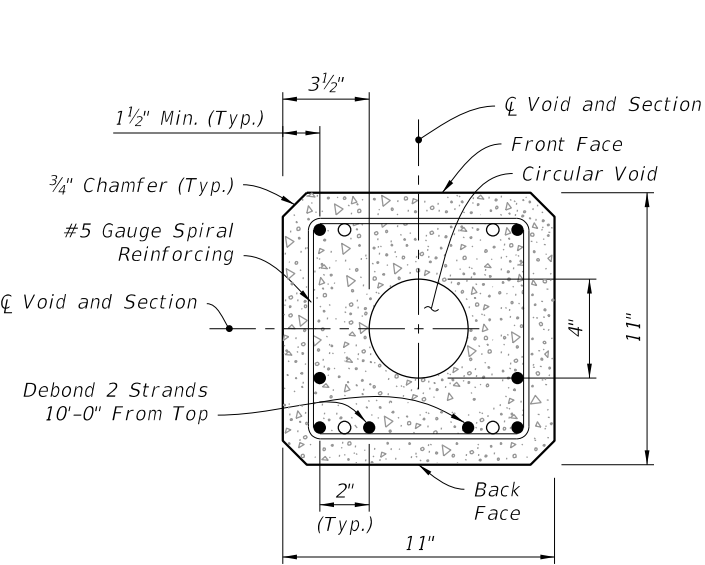
LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 7 of 11
------------------------------	----------	--------------	------	------------------------------	----------------	------------------	------------------



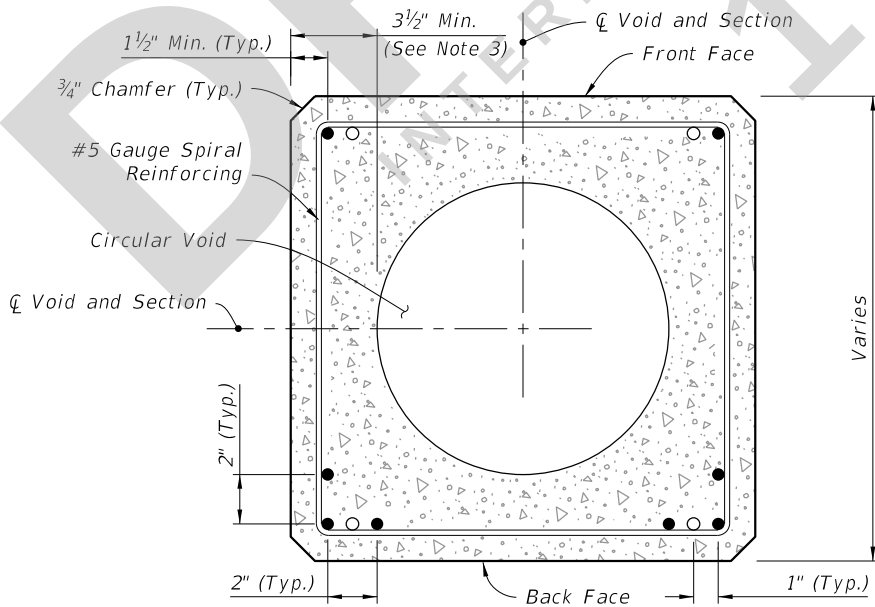
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION K-K (Tip End)



SECTION L-L (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 12.5% L from the Tip End.
 3. Dimension may vary from 3 1/2" to 4 3/4" 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

STRAIN POLE TYPE P-V



FY 2023-24
STANDARD PLANS

CONCRETE POLES

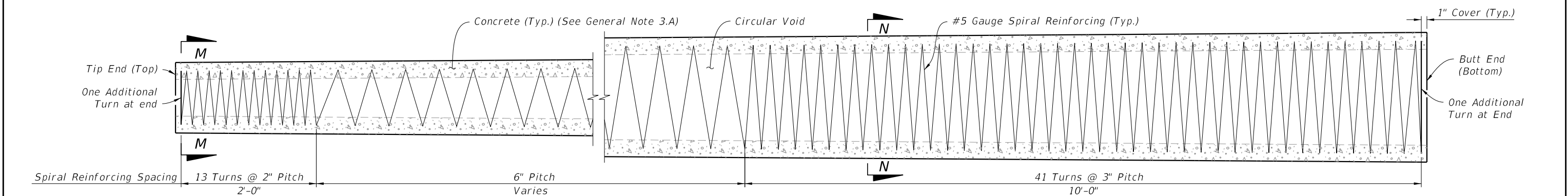
INDEX
641-010

SHEET
8 of 11

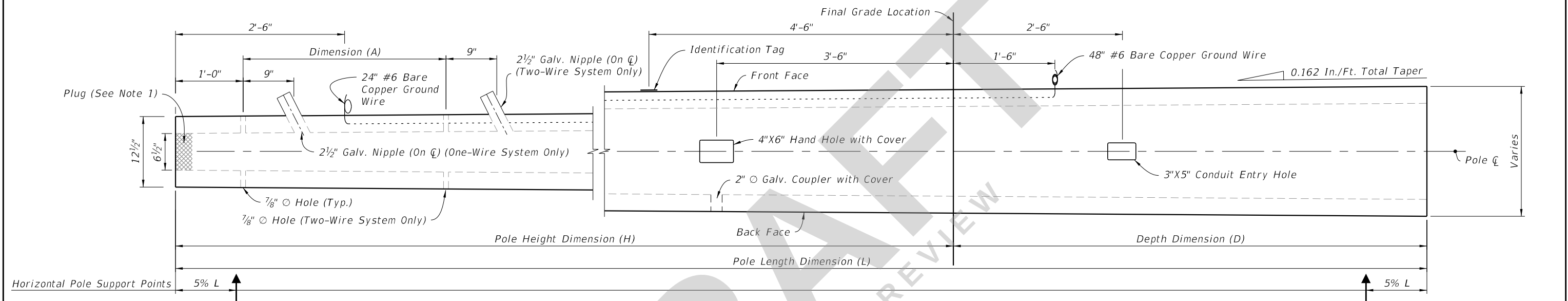
LAST
REVISION
11/01/22

DESCRIPTION:

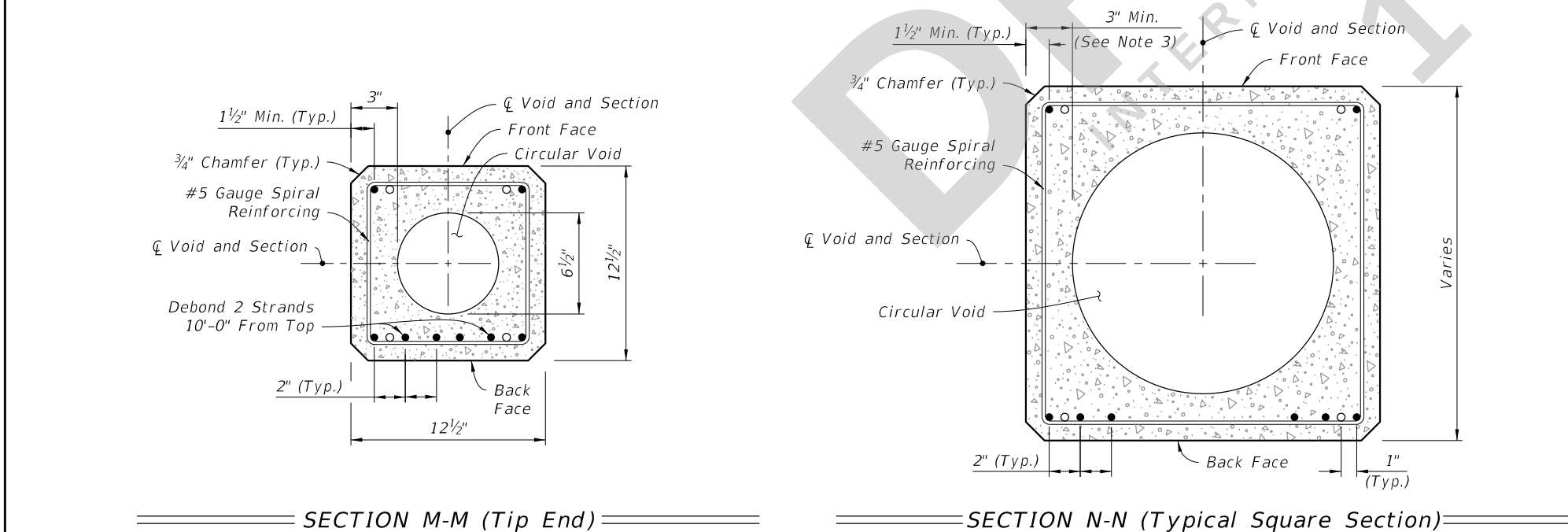
4/20/2022 8:30:47 AM



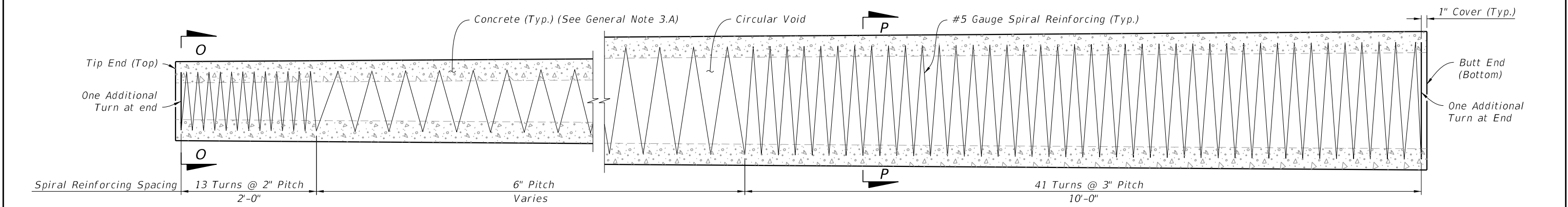
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



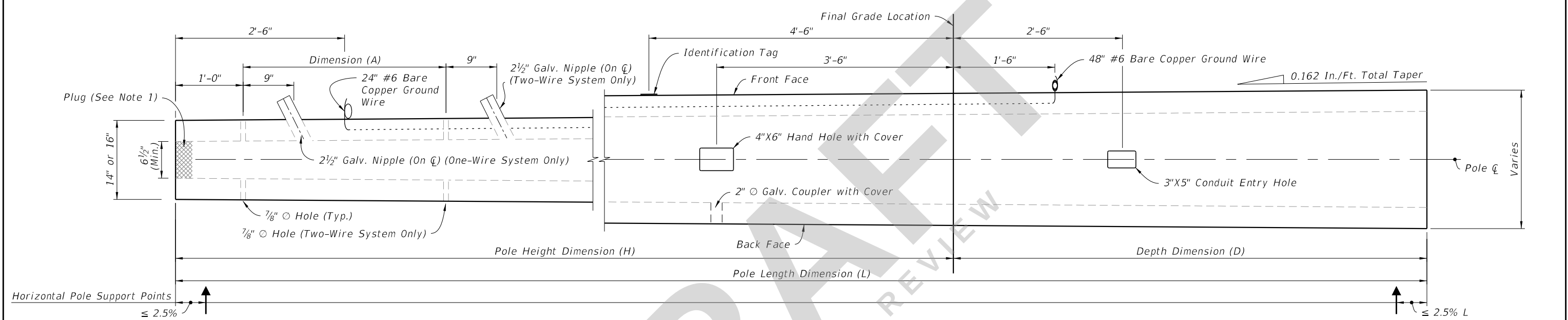
POLE ELEVATION
(Strands And Reinforcing Not Shown)



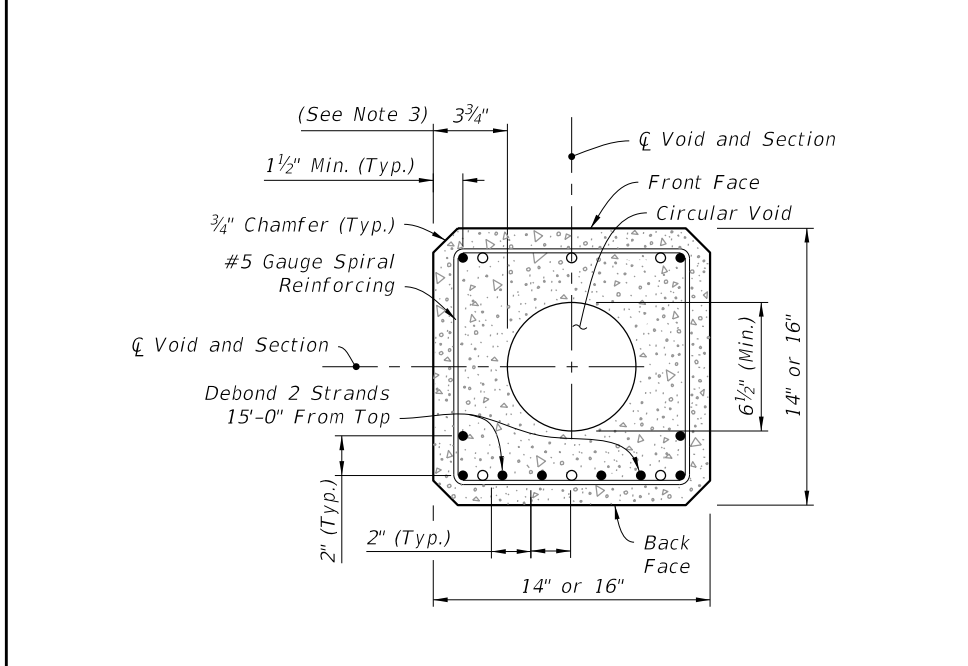
- NOTES:**
1. Provide a minimum 3" concrete plug at the Tip End.
 2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
 3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 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 (8 strands total)
 - Dormant Strand:
0.5 in. (4 strands total) One 24" splice allowed per strand



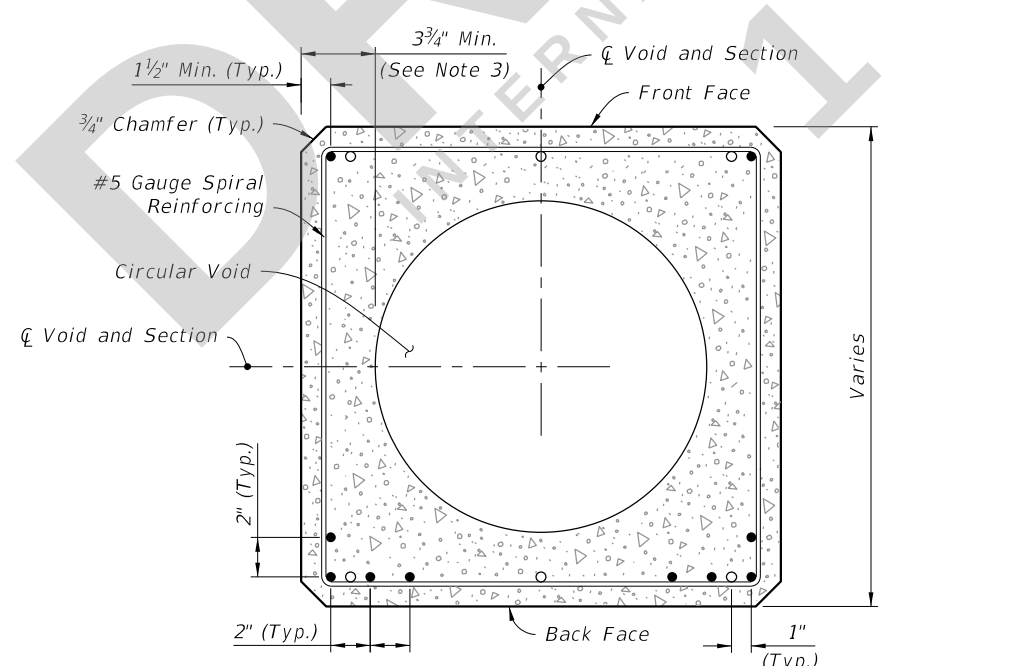
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION O-O (Tip End)



SECTION P-P (Typical Square Section)

NOTES:

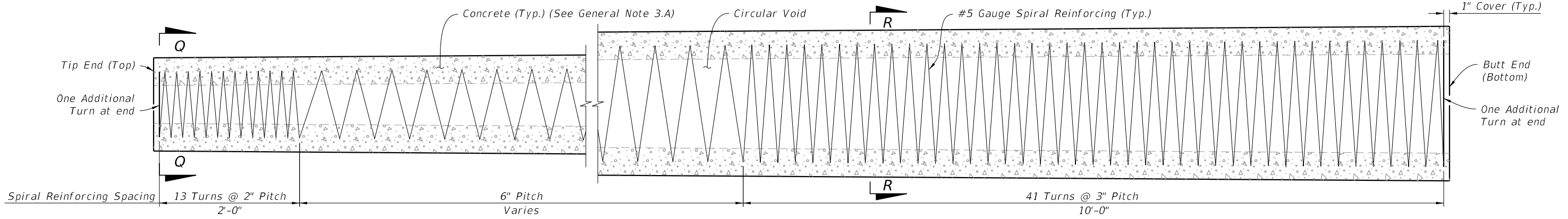
1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 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:

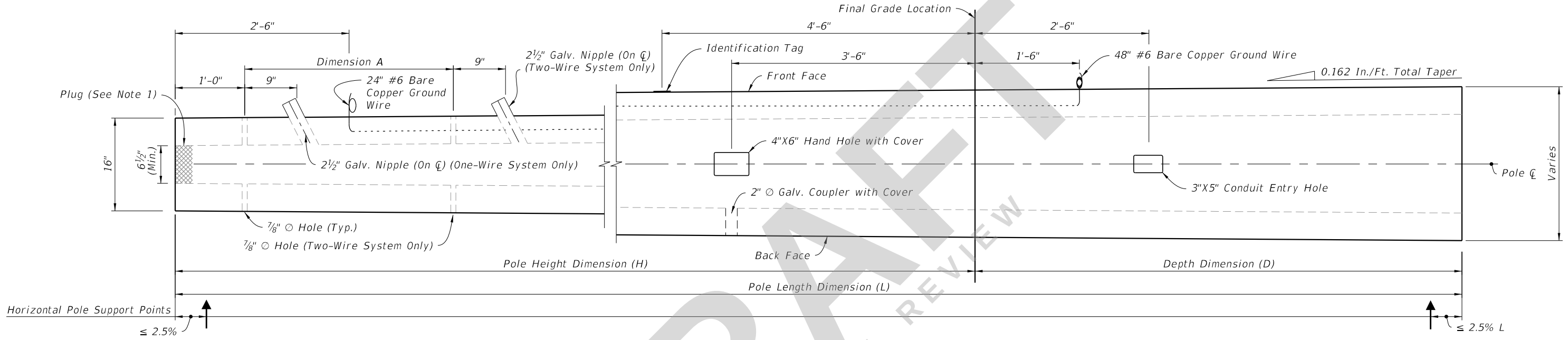
- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (10 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

STRAIN POLE TYPE P-VII

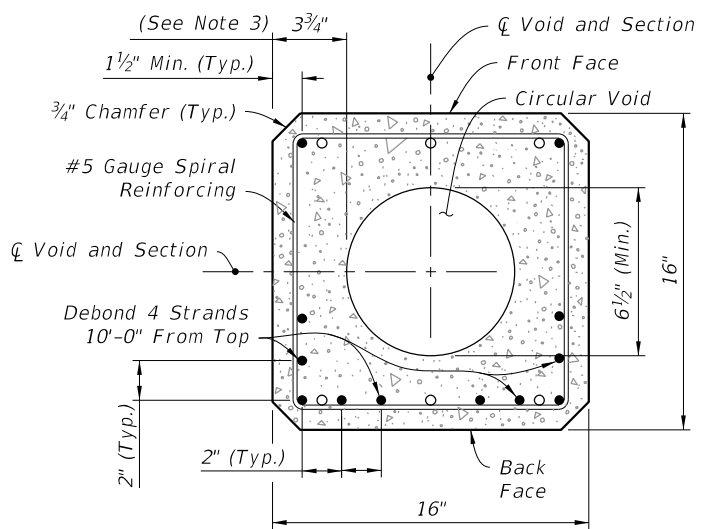
LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 10 of 11
------------------------------	----------	--------------	------	------------------------------	----------------	------------------	-------------------



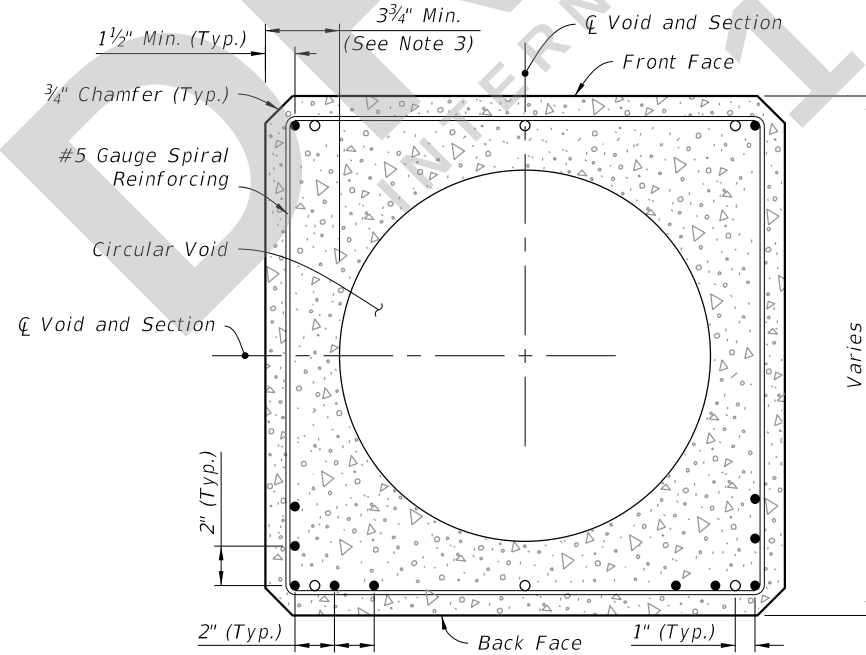
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing 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 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 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 (12 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

STRAIN POLE TYPE P-VIII

LAST REVISION 11/01/22	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 11 of 11
------------------------------	--------------	------	------------------------------	----------------	------------------	-------------------