

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Behring, Zachary	Index Number:	641-020
Date:	6/17/2026	Sheet Number(s):	1 ,3
E-mail:	Zachary.Behring@dot.state.fl.us	Index Title:	Concrete CCTV Pole

Summary of the changes:

Sheet 1: Updated General Note 2 to include "Alternate Multi-sided void form shapes with an equivalent enclosed area are allowed when included on the APL and will not require submittal of Shop Drawings for matching details.
Sheet 3: Added Note "(Circular void shown, multi-side void similar. See General Note 2)" under the 12-SIDED CONCRETE POLE and ROUND CONCTETE POLE details.

Commentary/Background:

Fabricators have expressed an interest in using multi-sided void forms

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List	Karen Byram	Yes
Construction Office		No
Maintenance Office		No

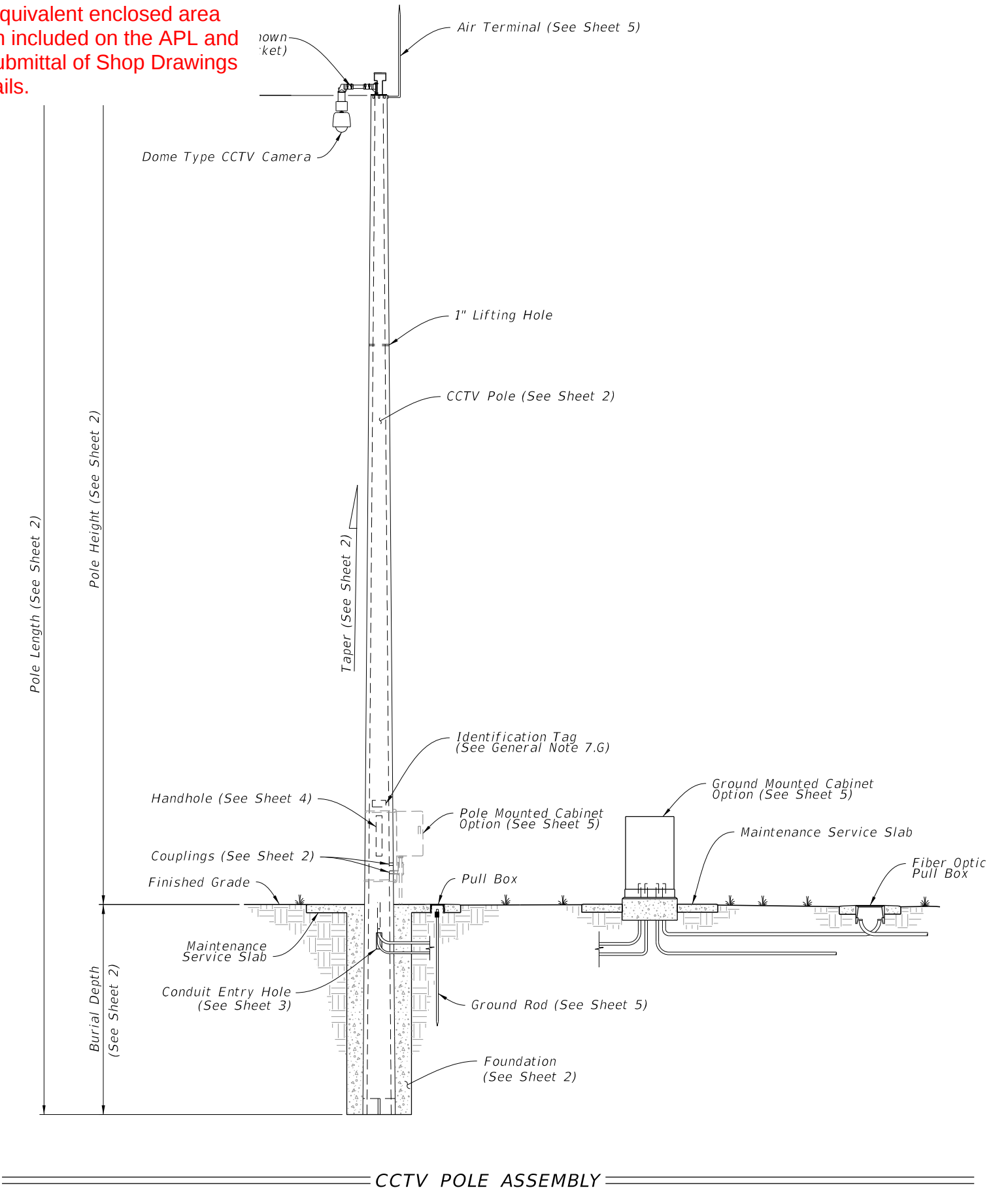
Implementation

["FY-Standard Plans (Next Release)"]

GENERAL NOTES:

1. Work this Index with Specification 641.
2. This Index is considered fully detailed and no shop drawings are necessary. Submit Shop Drawings for minor modifications not detailed in the Plans.
3. Provide either round or 12-sided Poles.
4. See Index 635-001 for additional Pull Box details.
5. See Index 676-010 for cabinet installation details.
6. Materials:
- A. Pole: Use Class VI concrete with 6 ksi minimum strength at transfer.
- B. Prestressing Strands: ASTM A416, Grade 270 low relaxation.
- C. Reinforcing Steel: ASTM A615, Grade 60
- D. Spiral Reinforcing: ASTM A1064 Cold-Drawn
- E. Bolts: ASTM F1554, Grade 55
Nuts: ASTM A563, Grade A Heavy Hex
Washers: ASTM F436
- F. Steel plates and Pole Cap: ASTM A36 or ASTM A709, Grade 50
- G. Galvanization: Bolts, nuts and washers: ASTM F2329
All other steel: ASTM A123
7. Fabrication:
- A. Cut the tip end of the prestressed strand first or simultaneously with the butt end.
- B. For spiral reinforcing, one turn is required for spiral splices and two turns are required at the top and bottom of poles.
- C. For Reinforcing Steel, lap splice to consist of a 3'-0" lap length at each splice. No more than two opposing rebar to be spliced at the same cross section. Stagger lap splices as needed.
- D. Provided a Class 3 surface finish in accordance with Specification 400.
- E. Provide a 1" minimum cover.
- F. Provide handhole and coupler cover plates made of non-corrosive materials. Attach cover plates to poles using lead anchors or threaded inserts embedded in the poles in conjunction with round headed chrome plated screws.
- G. Provide Identification Markings on the poles where indicated on the following sheets. Include the following information using inset numerals with 1" height or as approved in the Producers' Quality Control Program:
- Financial Project ID
Pole Manufacturer
Pole Length
- H. Tie ground wires to the interior of reinforcing steel as necessary to prevent displacement during concreting operations.
- I. Storage, Handling and Erection locations shown may vary within $\pm 3"$.
8. Pole Installation:
- A. Install the Pole plumb.
- B. Install Pole with the handhole located away from approaching traffic.
9. Cabinet Installation:
- A. Splice fiber optic cables in cabinet to preterminated patch panel.
- B. Furnish and install Surge Protection Devices (SPDs) on all cabling in cabinet.
- C. Furnish and install secondary SPDs protection on outlets for equipment in cabinet.
- D. Ensure that all electronic equipment power is protected and conditioned with SPDs.
- E. Ensure that equipment cabinet is bonded to CCTV pole grounding system.
- F. Install the pole mounted cabinet with the hinges next to the pole.
- G. Sizes and types of conduits and innerducts for network communications between the pullbox and cabinet are stated in the Contract Documents.
10. Lowering Device Installation:
- A. Place the lowering cable that moves within the pole in an interior conduit to prevent it from tangling or interfering with any electrical wire that is in the pole. Ensure that any electrical wire within the pole is routed securely and free from slack.
- B. Mount lowering arm perpendicular to the roadway or as shown in the plans. Position CCTV pole so that the camera can be safely lowered without requiring lane closures.
- C. Coordinate all lowering device hardware requirements (including Tenon, Tenon mounting plates, parking stand, etc.) with lowering device manufacturer.

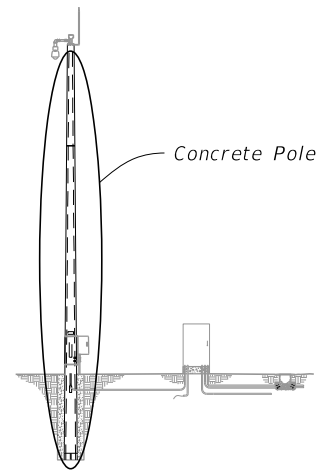
UPDATED: Alternate multi-sided void form shapes with an equivalent enclosed area are allowed when included on the APL and will not require submittal of Shop Drawings for matching details.



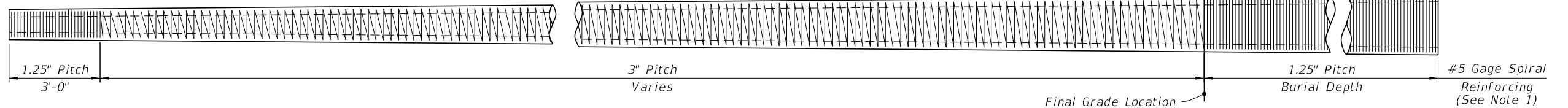
CCTV POLE ASSEMBLY

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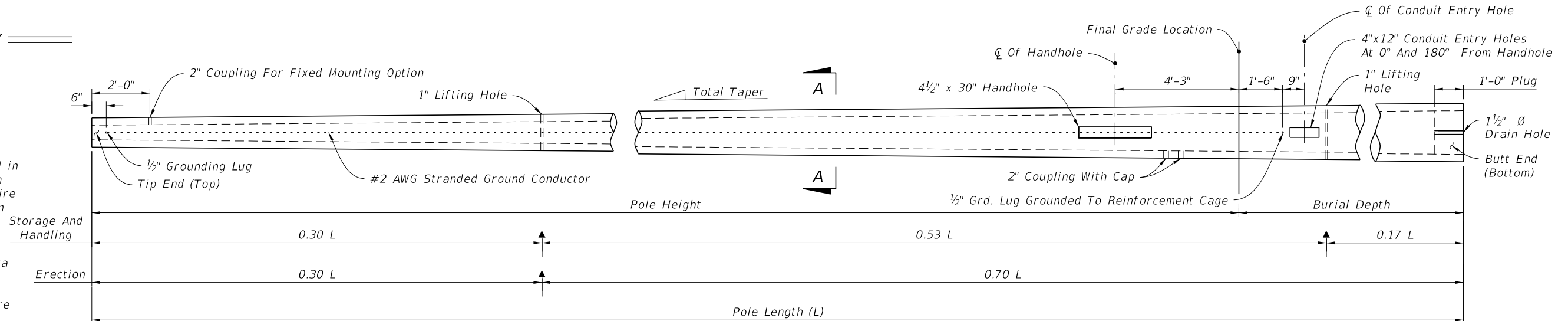
Concrete Pole



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

NOTES:

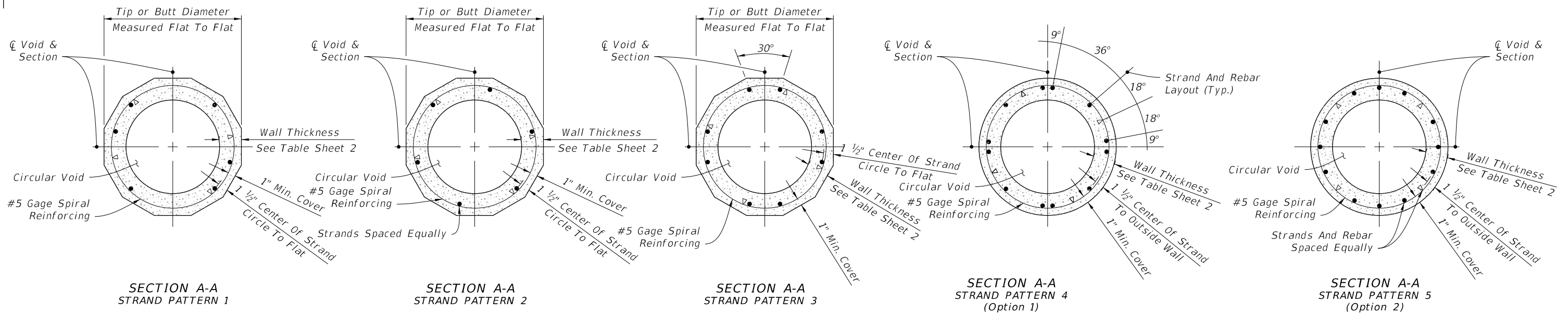
1. Spiral wire may be wrapped in two directions given that an equivalent area of spiral wire is provided to that shown in this Index and the cover requirements are met.
2. Work these details with Data Tables on Sheet 2.
3. Strands and rebar shown are continuous from Tip End to Butt End.



LEGEND:

- Prestressed Strand
- △ (4) #5 Rebar (Shown) or (6) #4 Rebar
- ↑ Lift Points

POLE ELEVATION
(Strands And Reinforcing Not Shown)



(Circular void shown, multi-side void similar. See General Note 2)
2027-28

(Circular void shown, multi-side void similar. See General Note 2)

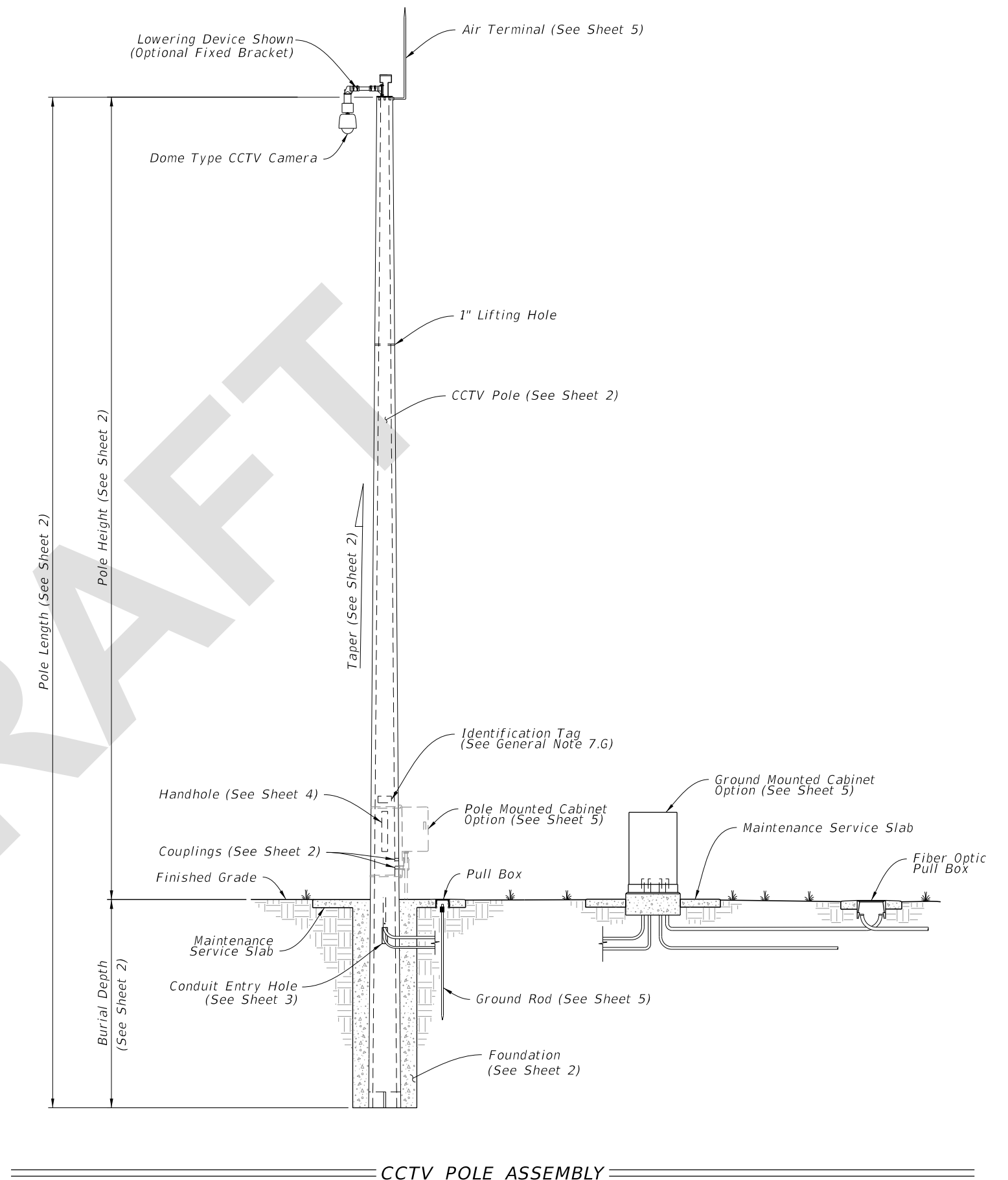
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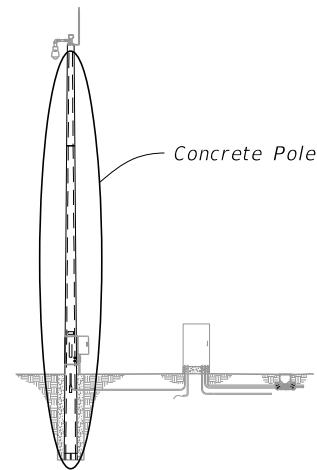
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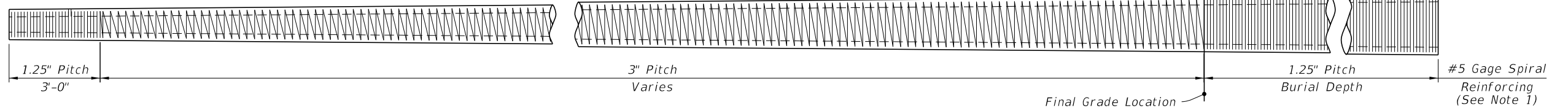
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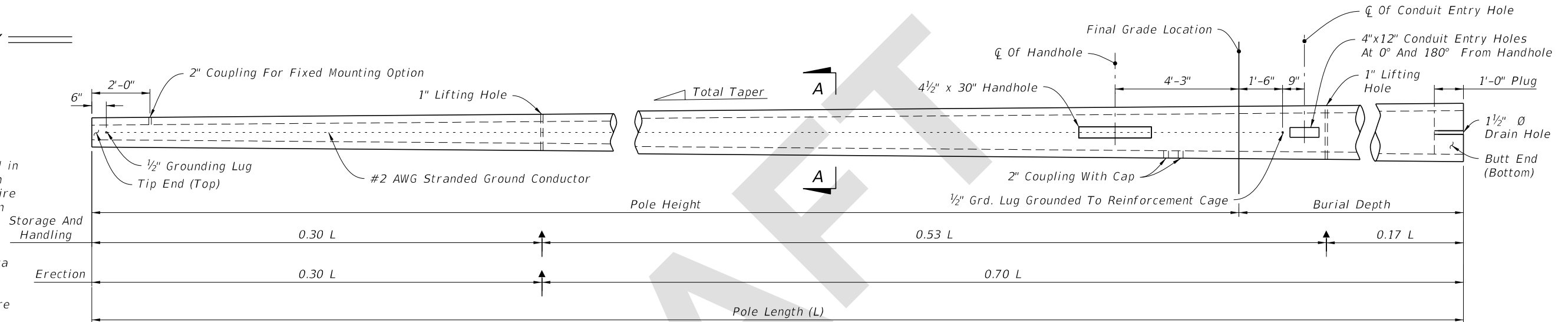
Concrete Pole



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

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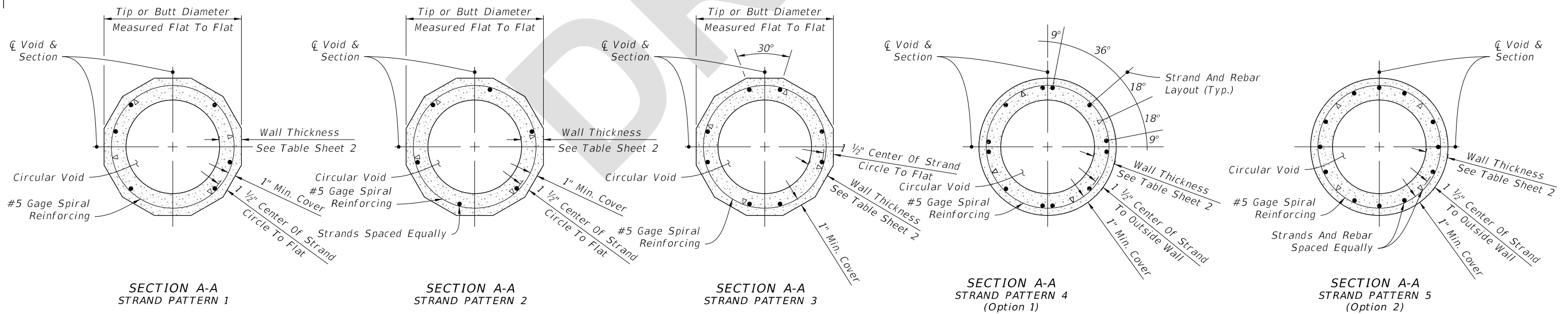
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POLE ELEVATION
(Strands And Reinforcing Not Shown)



12 - SIDED CONCRETE POLE
(Circular void shown, multi-side void similar. See General Note 2)

ROUND CONCRETE POLE
(Circular void shown, multi-side void similar. See General Note 2)

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