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## ORIGINATION FORM

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

**Contact Information:**

Date: November 24, 2020

Originator: Ge Wan

Phone: (850) 414-4394

Email: ge.wan@dot.state.fl.us

**Standard Plans:**

Index Number: 649-010

Sheet Number (s): 3 of 3

Index Title: Steel Strain Pole

**Summary of the changes:**

Sheet 3: Change weld on Handhole.

**Commentary / Background:**

Update to meet current criteria

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

- | Yes                      | No                                  |                             |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –      |
| <input type="checkbox"/> | <input type="checkbox"/>            | FDOT Design Manual –        |
| <input type="checkbox"/> | <input type="checkbox"/>            | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input type="checkbox"/>            | Standard Specifications –   |
| <input type="checkbox"/> | <input type="checkbox"/>            | Approved Product List –     |
| <input type="checkbox"/> | <input type="checkbox"/>            | Construction –              |
| <input type="checkbox"/> | <input type="checkbox"/>            | Maintenance –               |

**Origination Package Includes:**

(Email or hand deliver package to Rick Jenkins)

- | Yes                                 | N/A                      |  |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups                         |
| <input type="checkbox"/>            | <input type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/>            | <input type="checkbox"/> | Revised SPI                              |
| <input type="checkbox"/>            | <input type="checkbox"/> | Other Support Documents                  |

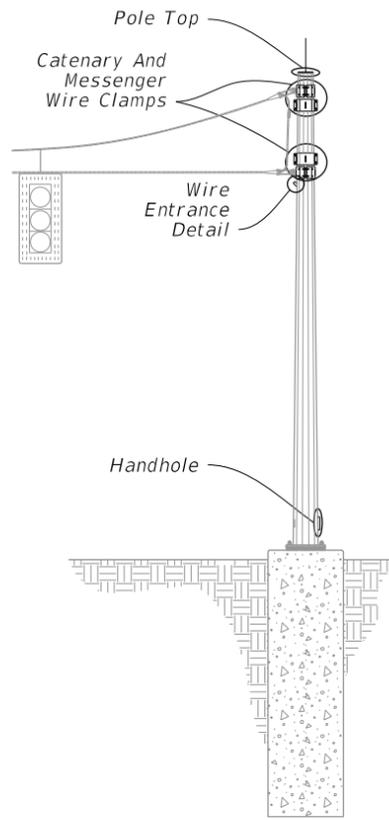
**Implementation:**

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

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Contact the Roadway Design Office for assistance in completing this form

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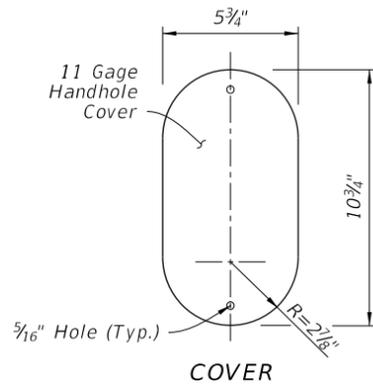


POLE ASSEMBLY

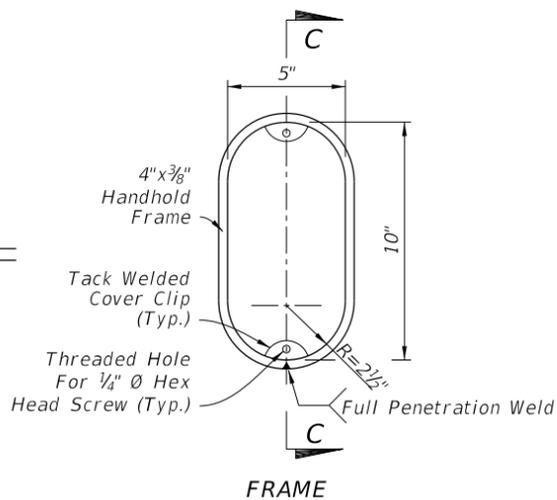
NOTES:

1. Clamps have been sized for Design Cable Loads shown in the Clamp Thickness Table, and a Maximum Pole Diameter at the Clamp location of 2'-1". Use one clamp per cable.
2. Install a properly sized Weather Head, fastened securely to the standard pipe for each pole location. At locations other than the wire entrance, the Weather Head face is to be left closed to outside atmosphere. Wire entrance installed per Index 634-001.
3. Any combination of Option 'a' or 'b' may be used provided both lifting and wiring is accommodated.

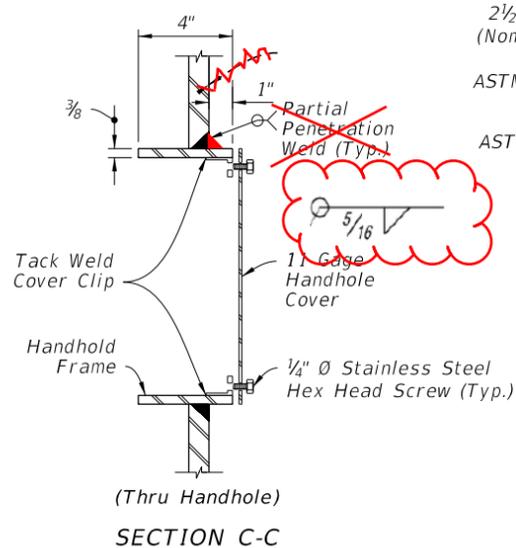
CLAMP THICKNESS TABLE		
Cable Diameter (in.)	Minimum Breaking Strength (kip)	Plate Thickness (in.)
1/2	25	1
7/16	18	7/8
3/8	11.5	3/4
1/4	3.15	3/8



COVER

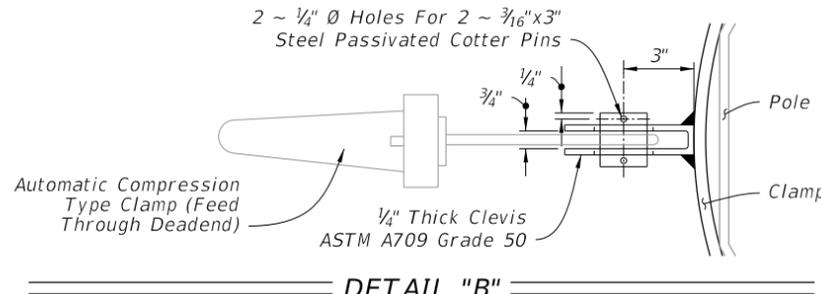


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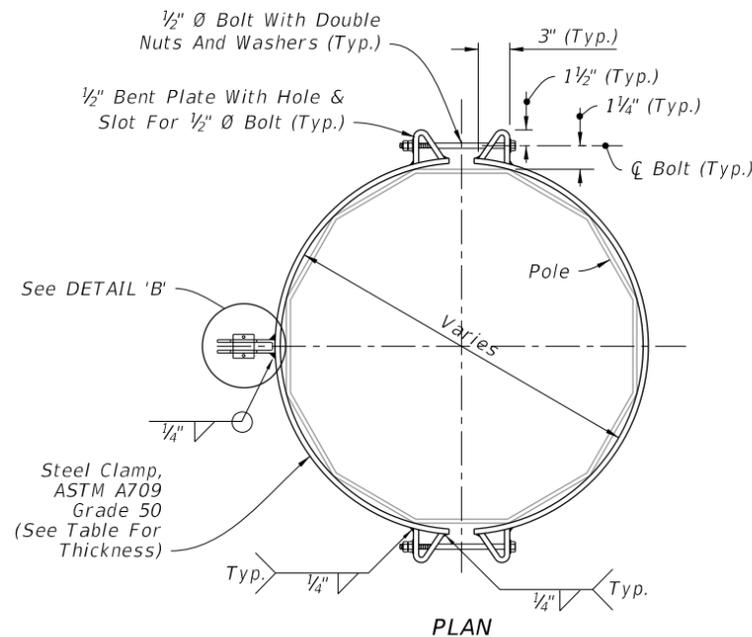


SECTION C-C

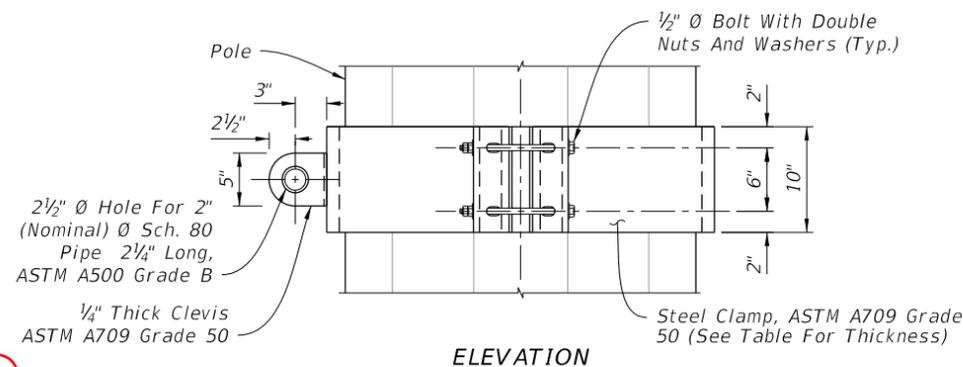
HANDHOLE



DETAIL "B"

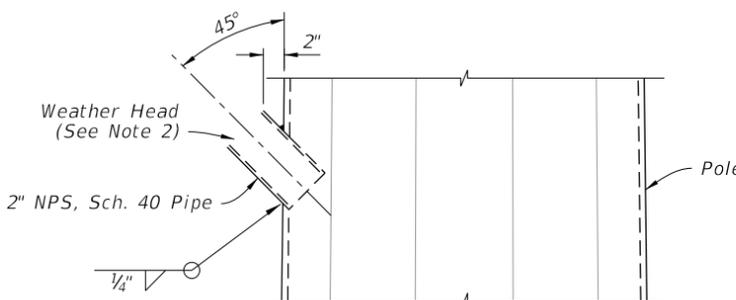


PLAN

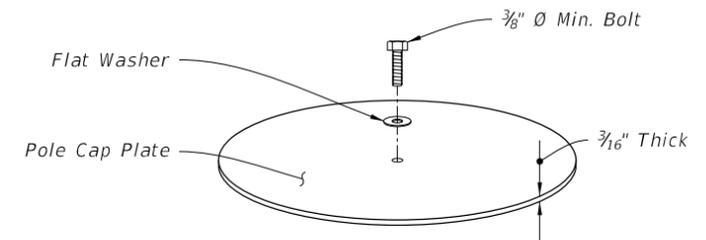


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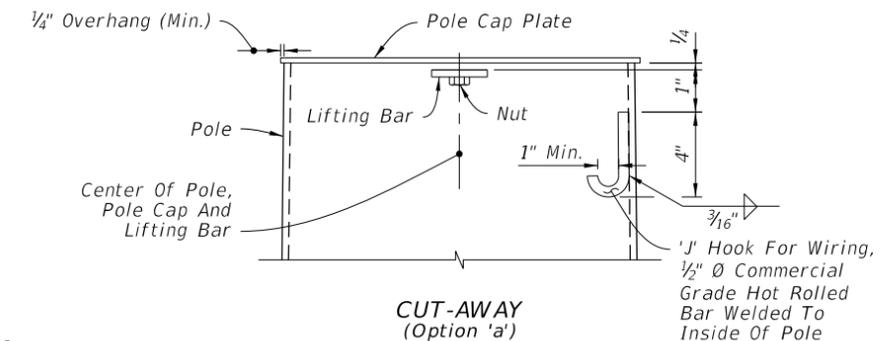
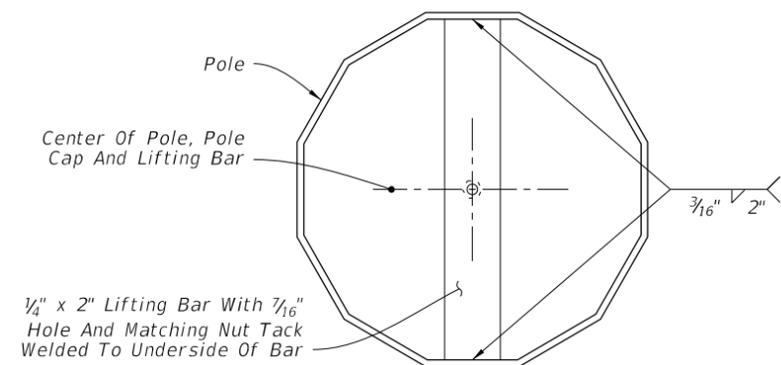
CATENARY AND MESSENGER WIRE CLAMPS



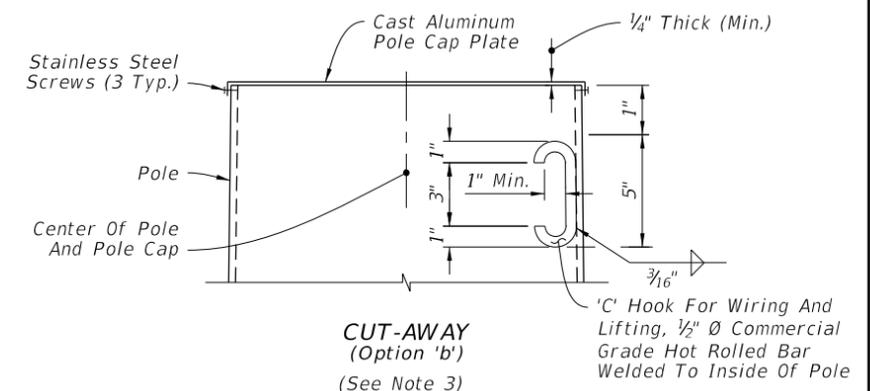
WIRE ENTRANCE DETAIL



TOP VIEW



CUT-AWAY (Option 'a')



CUT-AWAY (Option 'b') (See Note 3)

POLE TOP

ATTACHMENT DETAILS

10/12/2020 8:20:47 AM

LAST REVISION	DESCRIPTION:
11/01/17	
11/01/21	

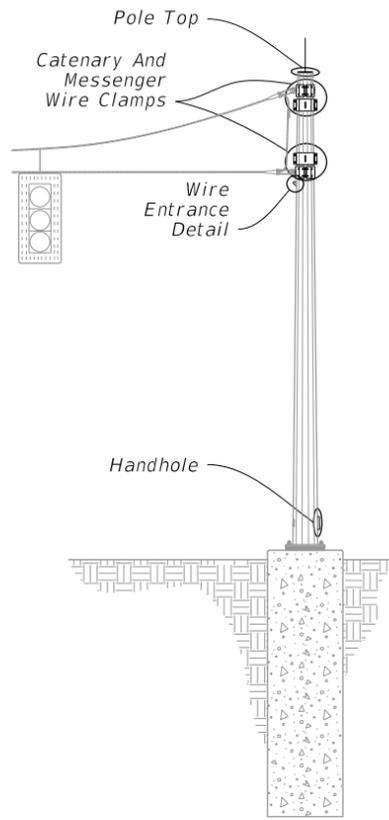


FY 2021-22  
STANDARD PLANS

STEEL STRAIN POLE

INDEX  
649-010

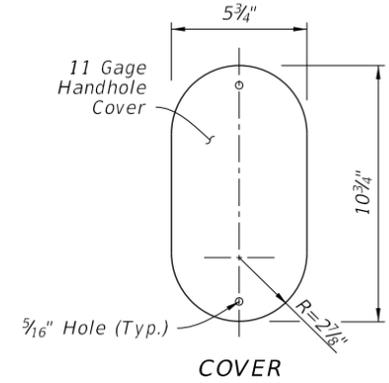
SHEET  
3 of 3



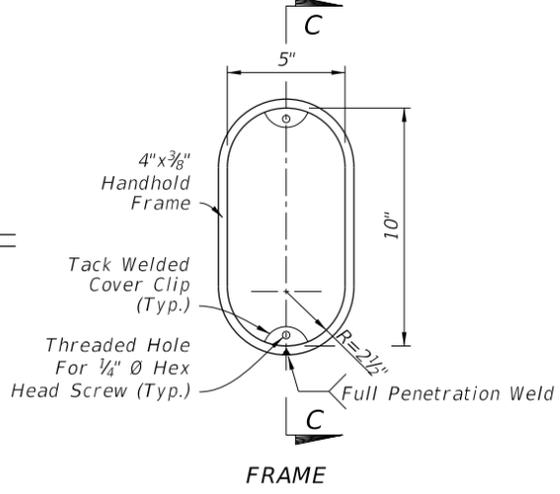
POLE ASSEMBLY

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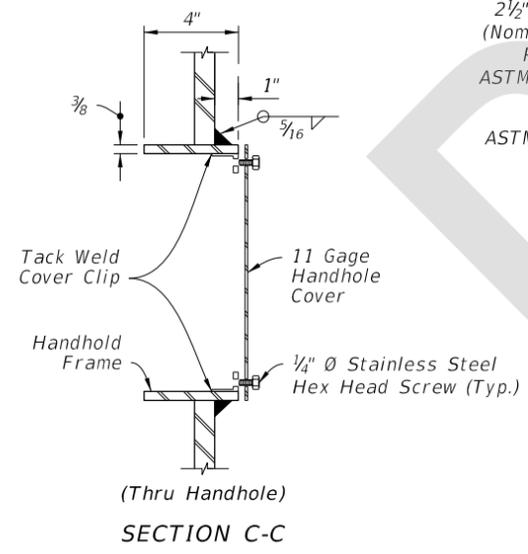
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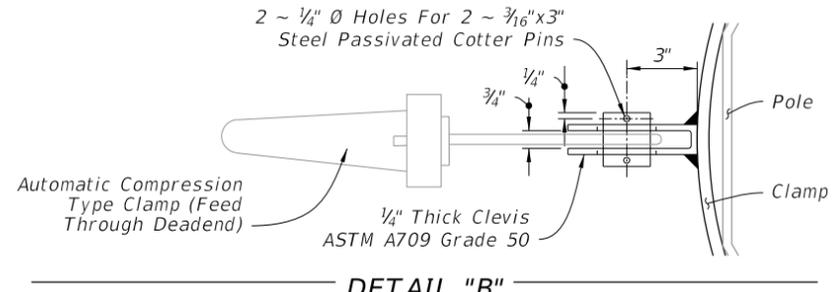


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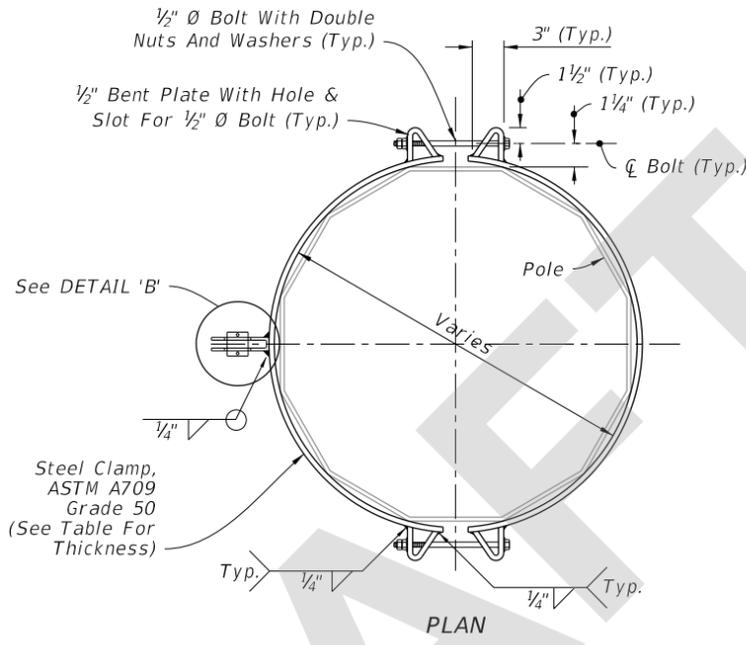


SECTION C-C

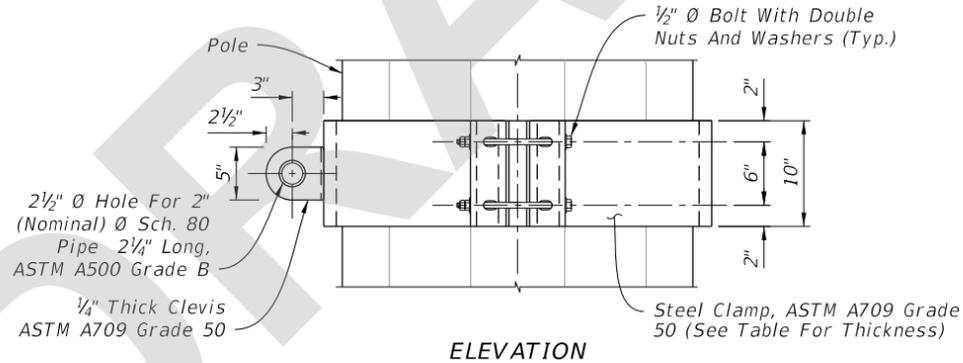
HANDHOLE



DETAIL "B"

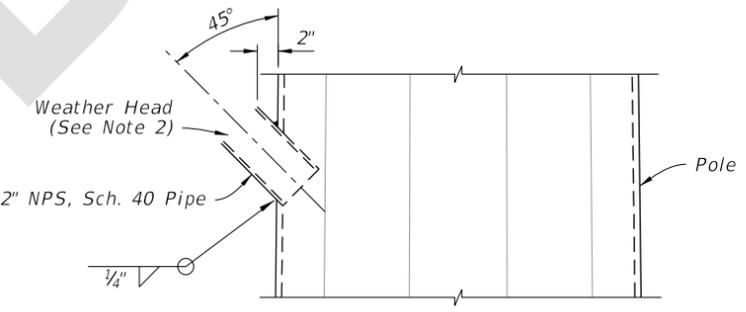


PLAN

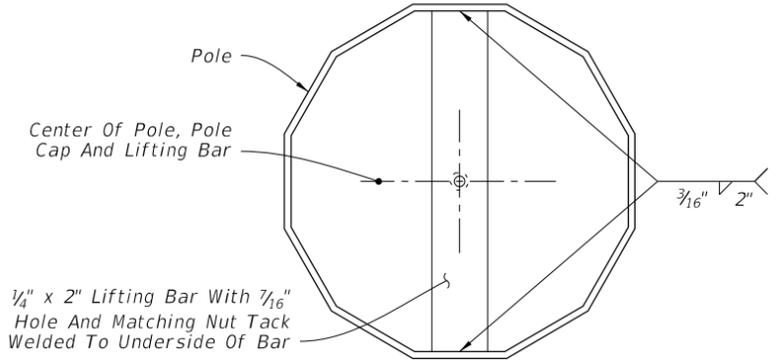
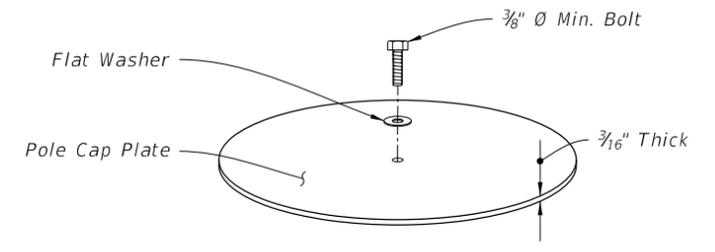


ELEVATION

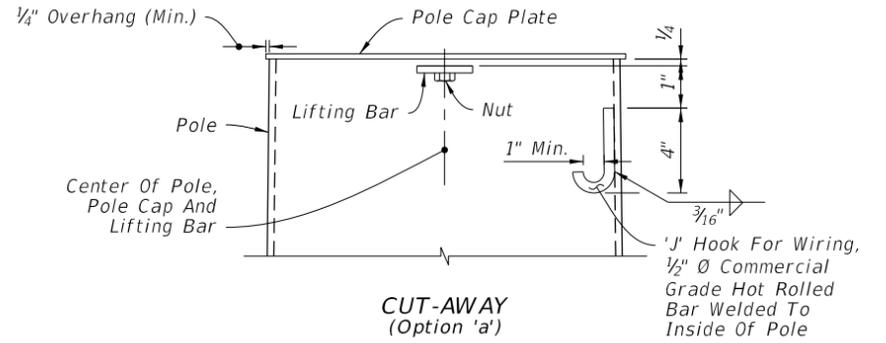
CATENARY AND MESSENGER WIRE CLAMPS



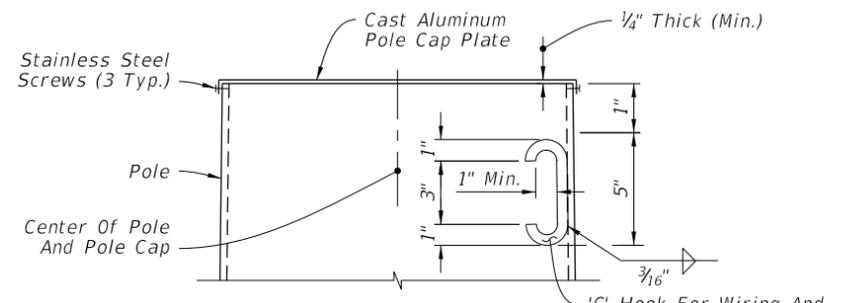
WIRE ENTRANCE DETAIL



TOP VIEW



CUT-AWAY (Option 'a')



CUT-AWAY (Option 'b')

(See Note 3)

POLE TOP

ATTACHMENT DETAILS

12/21/2020 6:22:01 AM

LAST REVISION	DESCRIPTION:
11/01/21	



FY 2022-23  
STANDARD PLANS

STEEL STRAIN POLE

INDEX  
649-010

SHEET  
3 of 3