
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

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

Contact Information:

Date: July 6, 2022
Originator: Joshua Turley
Phone: (850) 414-4475
Email: joshua.turley@dot.state.fl.us

Standard Plans:

Index Number: 700-040
Sheet Number (s): 2, 3, and 4 of 5
Index Title: Cantilever Sign Structure

Summary of the changes:

- Sheet 2: Changed dimension 'BK' extents in Base Plate Connection detail to match calcs.
- Sheet 3: Updated linework on Section A-A to correctly reflect correct geometry.
- Sheet 4: Corrected reference in Detail F.

Commentary / Background:

Updating for errors and clarity.

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 checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes: (Submit package to Rick Jenkins)

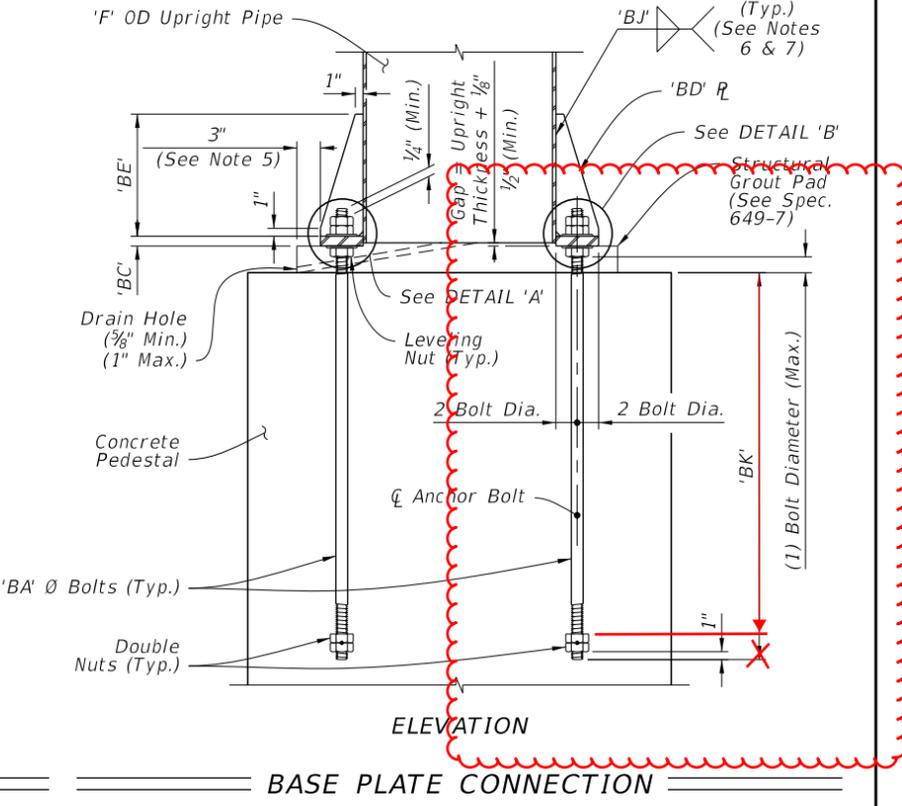
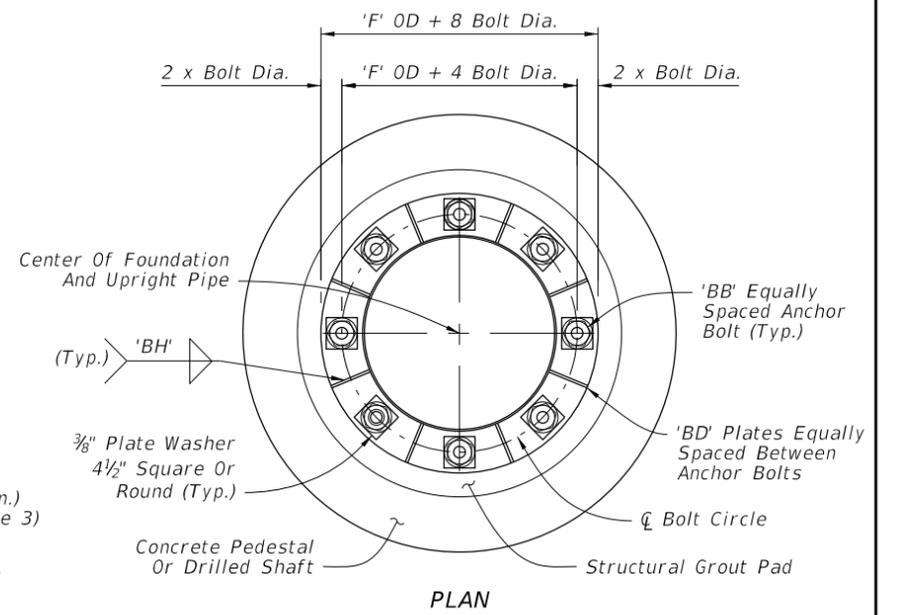
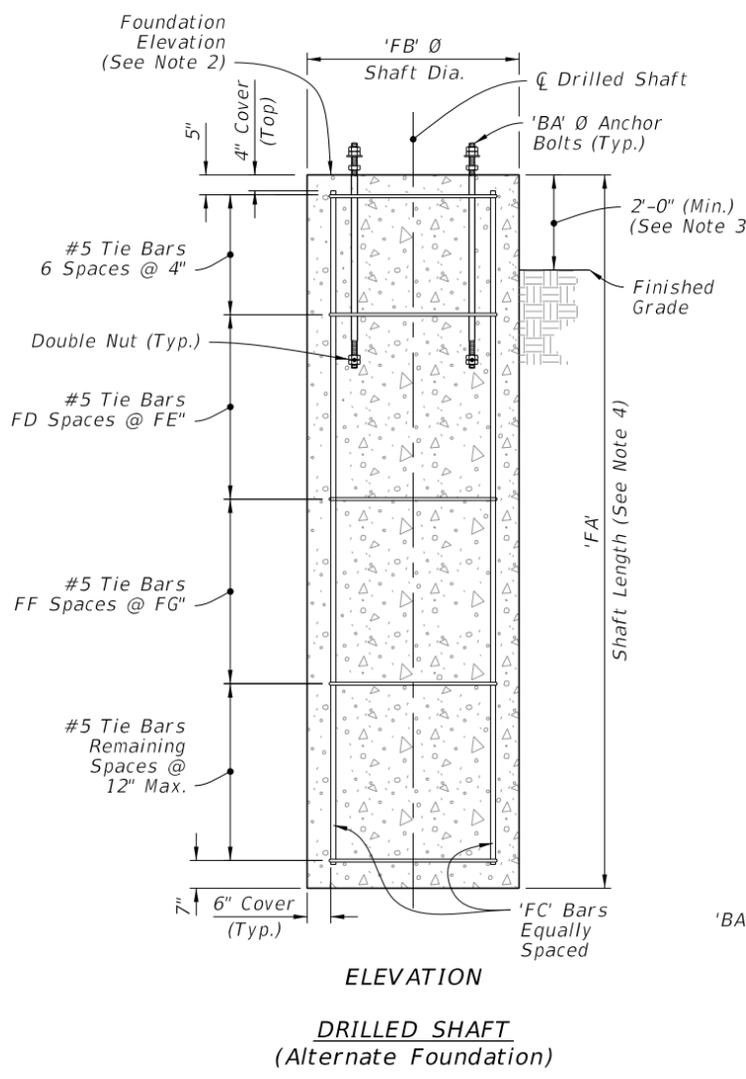
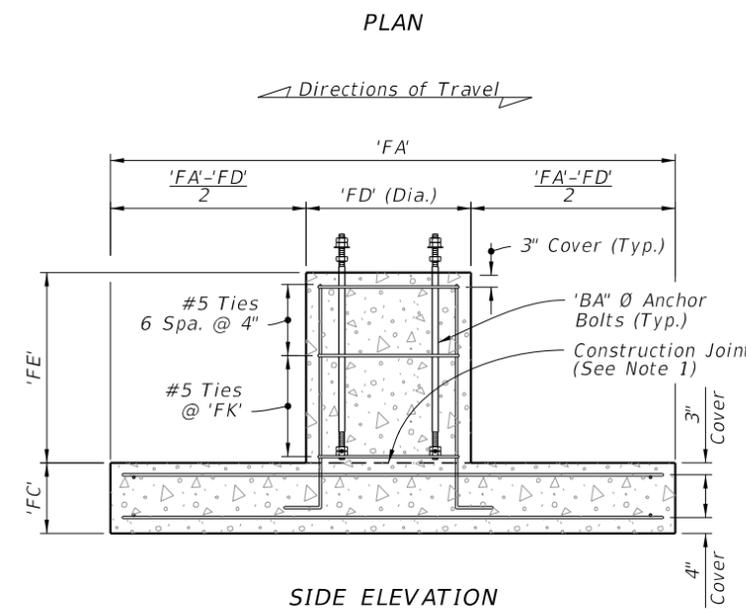
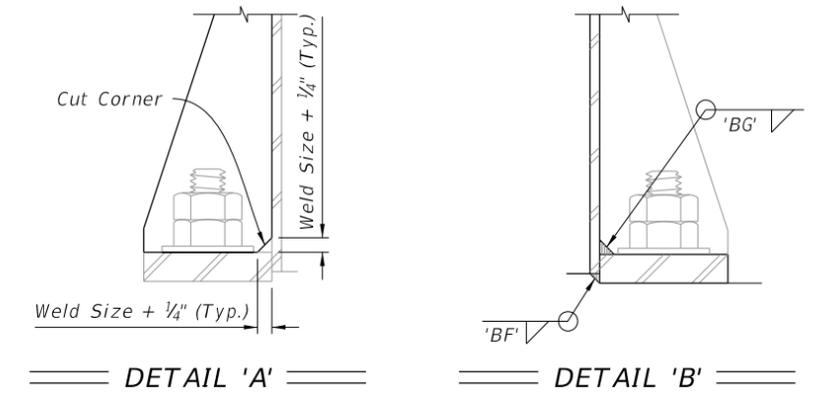
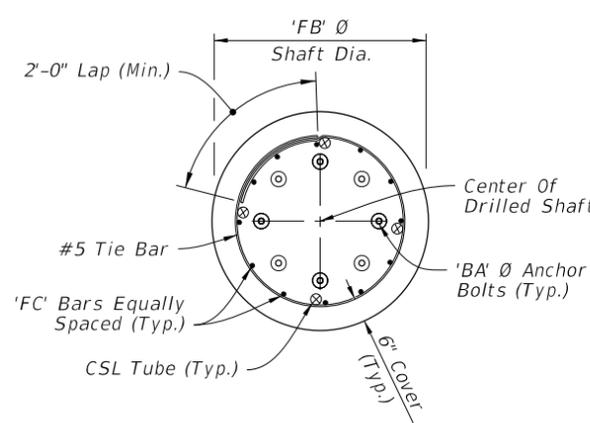
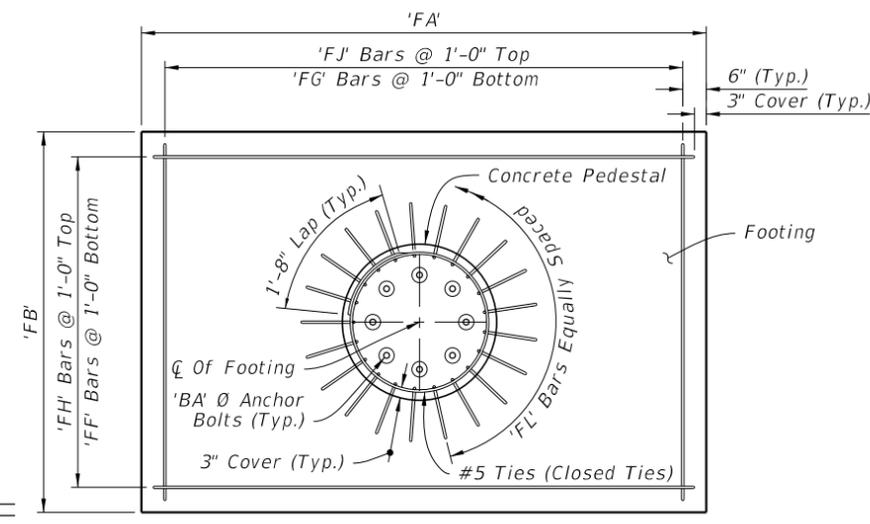
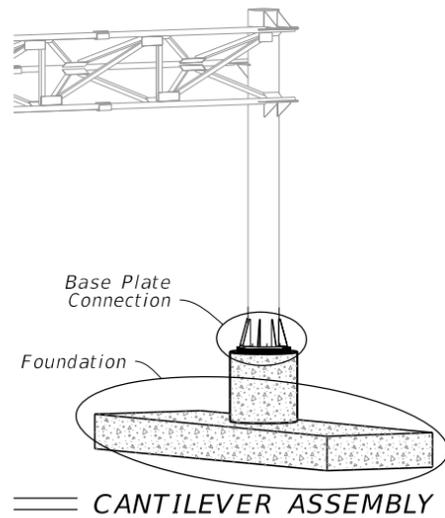
- | Yes | N/A | |
|-------------------------------------|--------------------------|---|
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| <input type="checkbox"/> | <input type="checkbox"/> | Revised or Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/>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

Implementation:

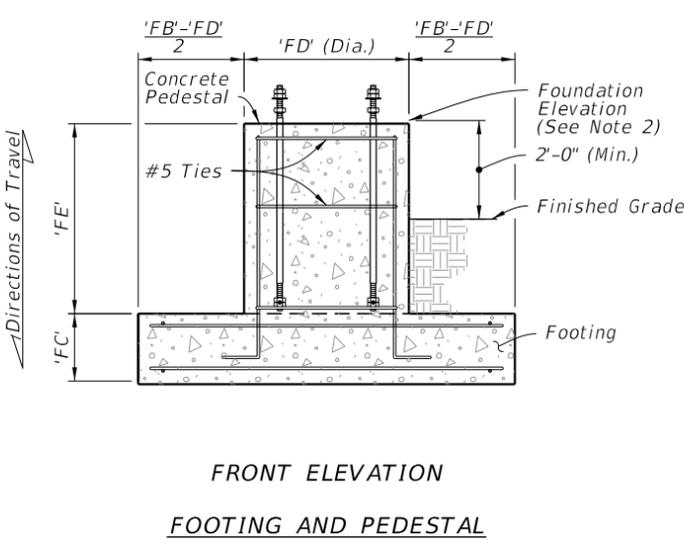
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| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

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



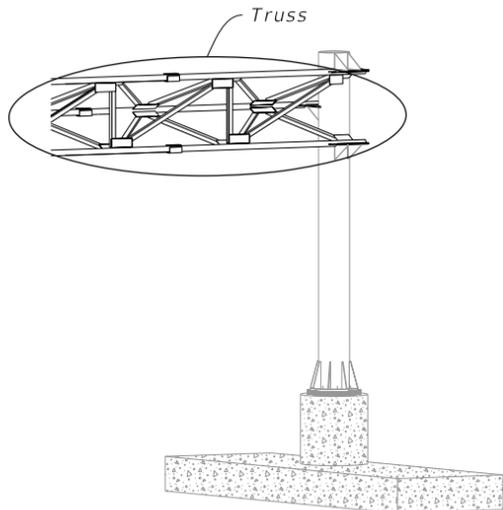
- NOTES:**
- Construction joint allowed, roughen surface to 1/4" minimum amplitude prior to pour.
 - See Traffic Plans for elevation at top of Foundation.
 - Install Drilled Shaft with a 2'-0" minimum from top elevation of the drilled shaft to the finished grade, unless specified otherwise in the plans.
 - The shaft length is based on 2'-0" height above finished grade.
 - Structural Grout Pad dimension may be modified to be less than 3" where the footprint of the Structural Grout Pad does not provide adequate clearance for accessibility considerations.
 - Wrap fillet weld around the stiffener termination on the tube wall.
 - After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.



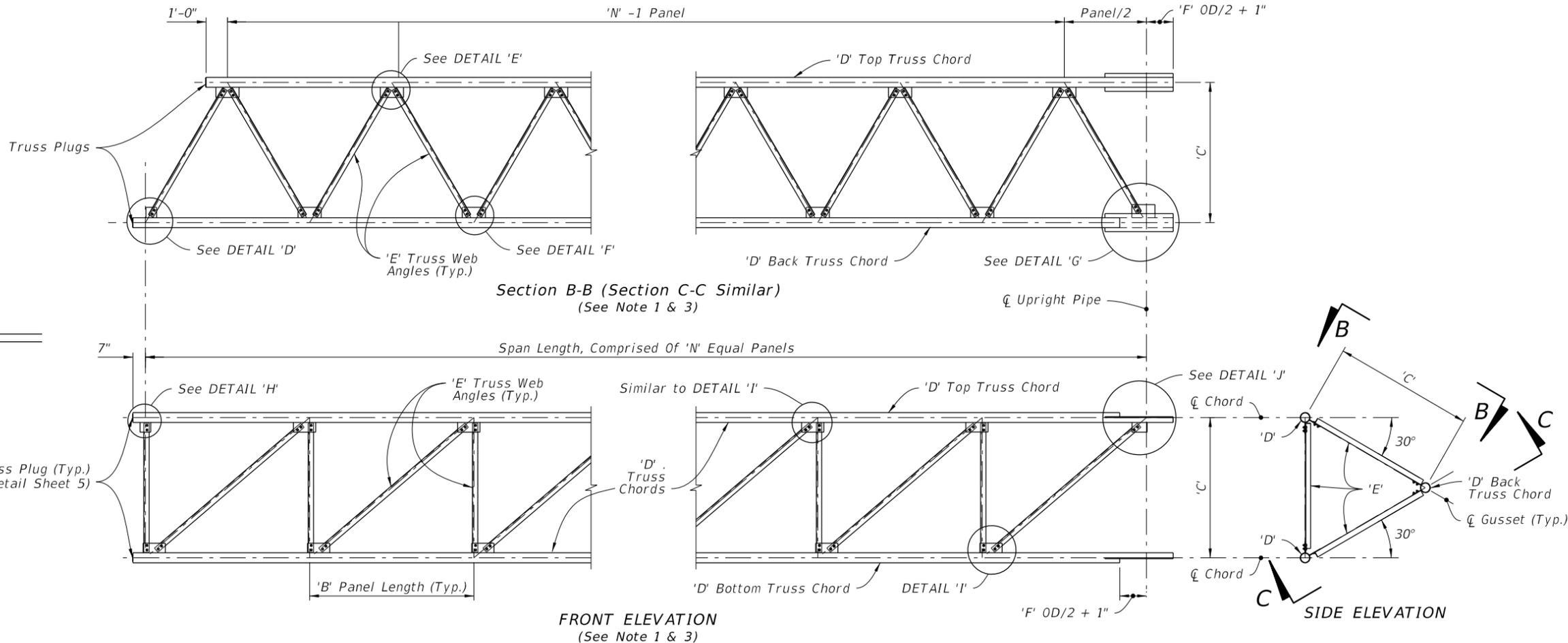
FOUNDATION **BASE PLATE CONNECTION**

9/28/2021 9:46:01 AM

LAST REVISION	DESCRIPTION:
11/01/21	11/02/22



CANTILEVER ASSEMBLY

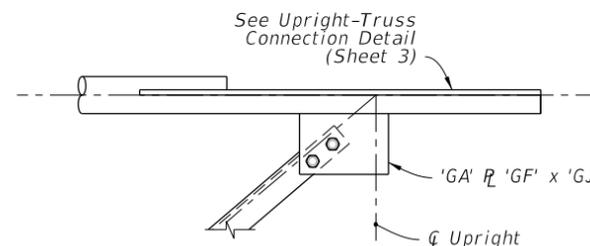
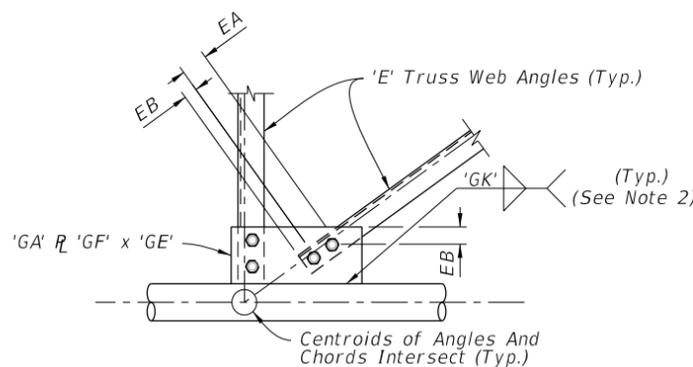
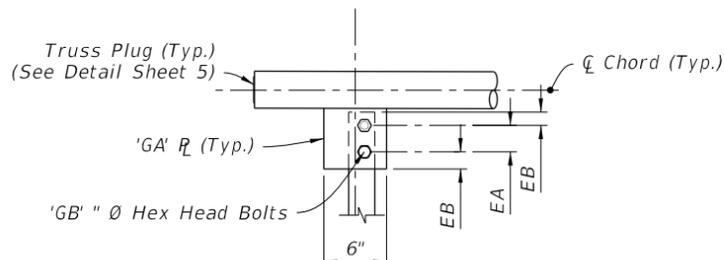
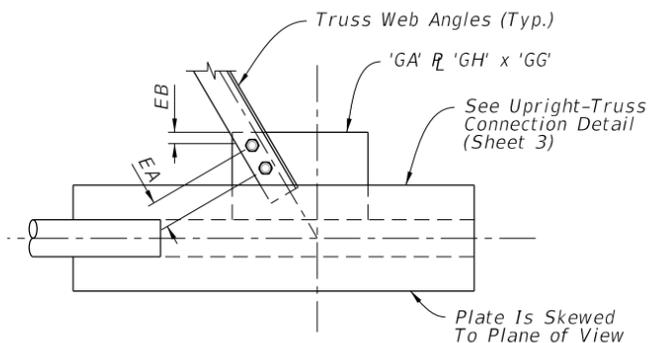
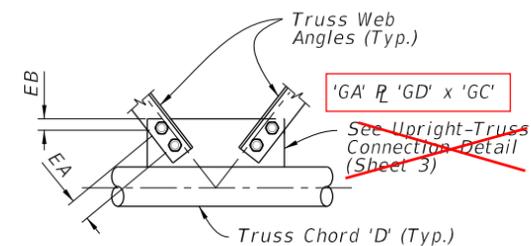
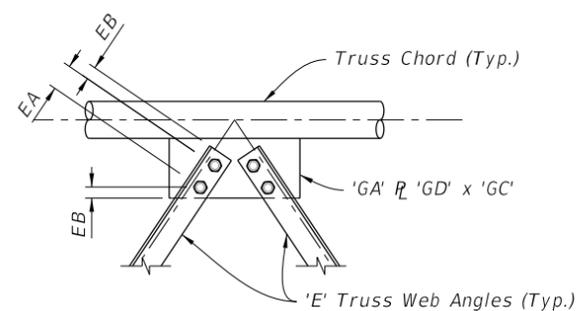
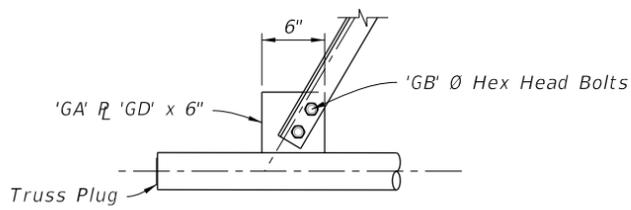


TRUSS NOTES:

1. Out-of-plane members are not shown for clarity.
2. Wrap fillet weld around plate termination on the tube wall.
3. Chord Splices not shown.

TRUSS

Bolt Size	Distance	
	EA	EB
1 1/4" Ø	4 3/8"	2 1/4"
1" Ø	3 1/2"	1 3/4"
7/8" Ø	3"	1 1/2"
3/4" Ø	2 1/2"	1 1/4"
5/8" Ø	2 1/4"	1 1/8"



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LAST REVISION	DESCRIPTION:
11/01/17	11/02/22

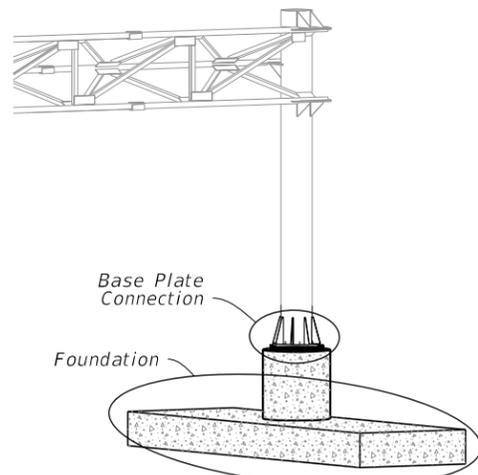


FY 2022-23
STANDARD PLANS

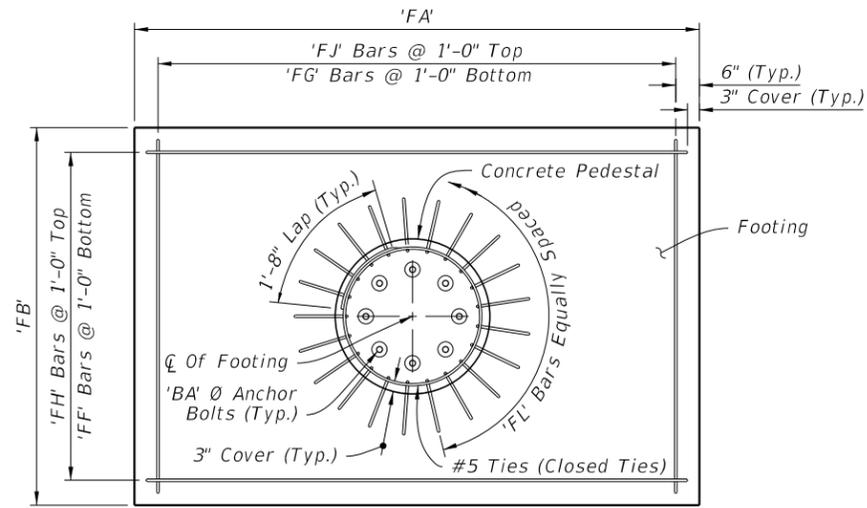
CANTILEVER SIGN STRUCTURE

INDEX
700-040

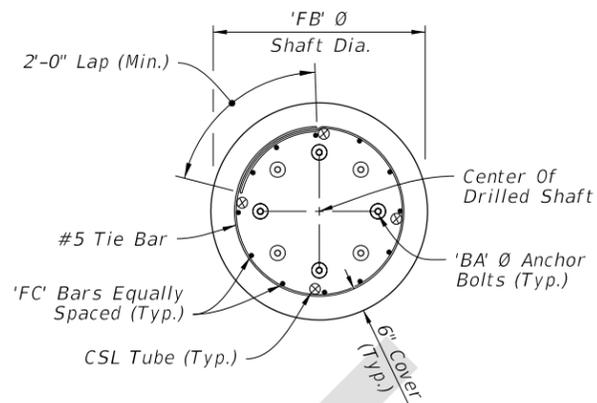
SHEET
4 of 5



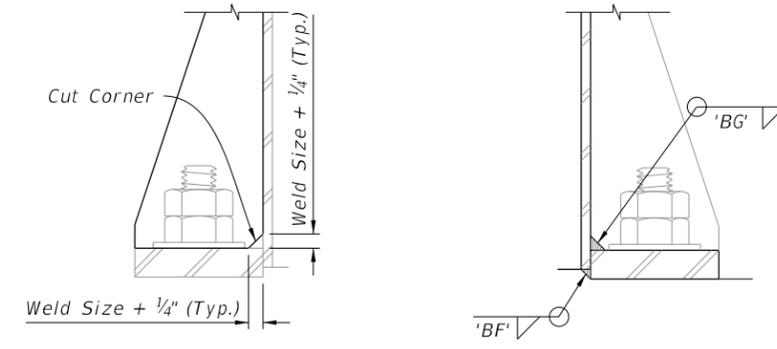
CANTILEVER ASSEMBLY



PLAN

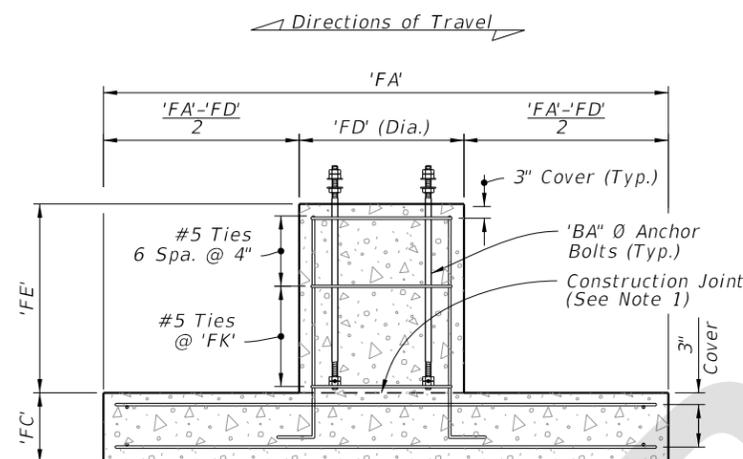


PLAN

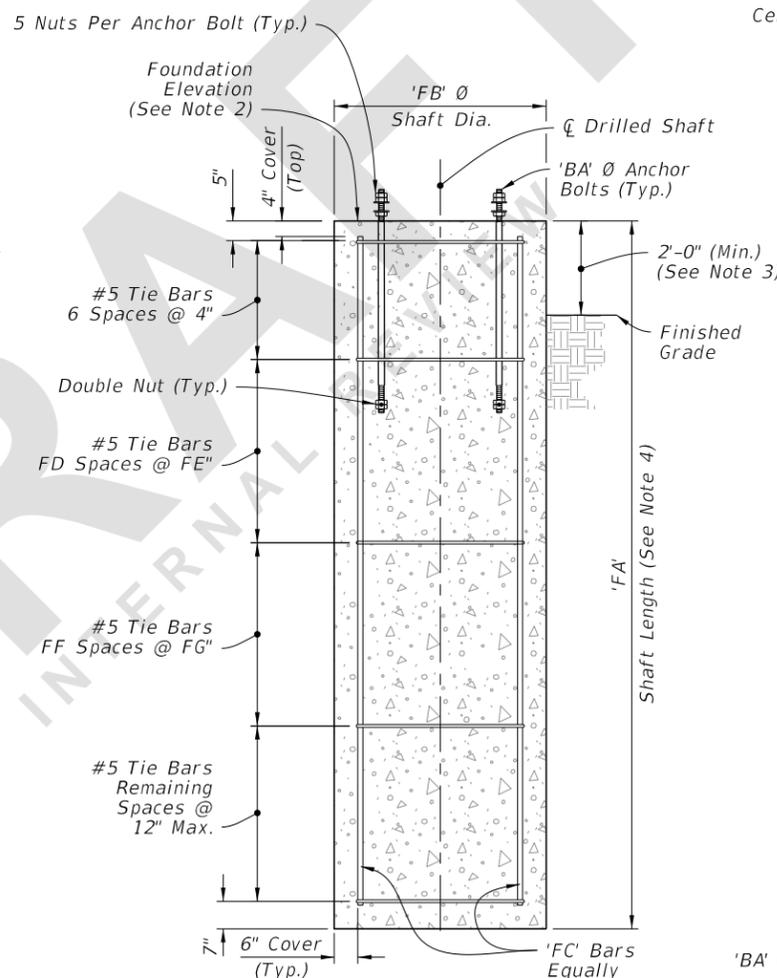


DETAIL 'A'

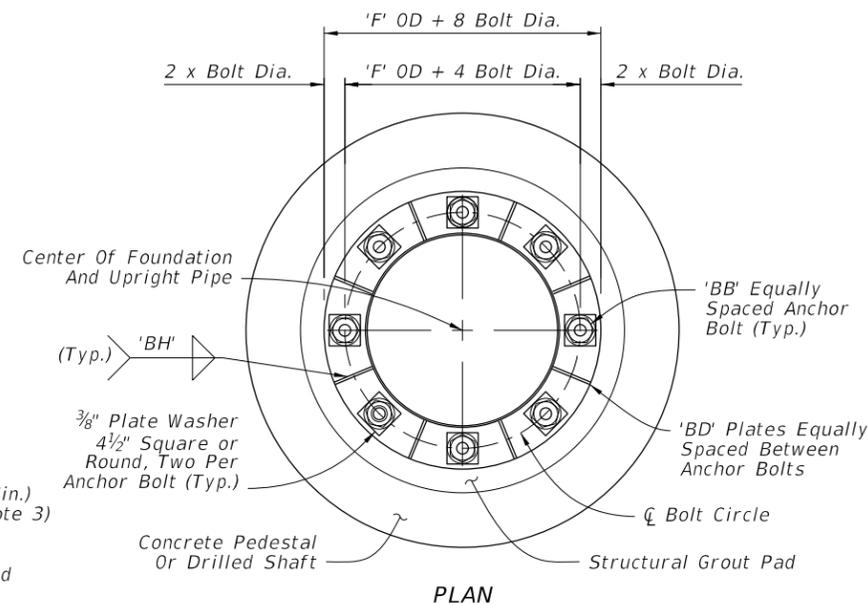
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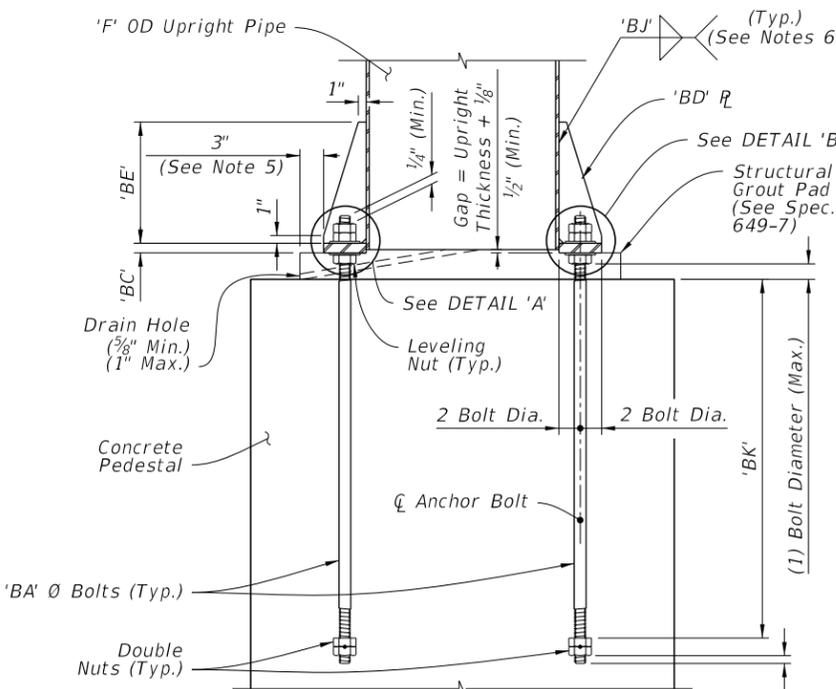
SIDE ELEVATION



ELEVATION

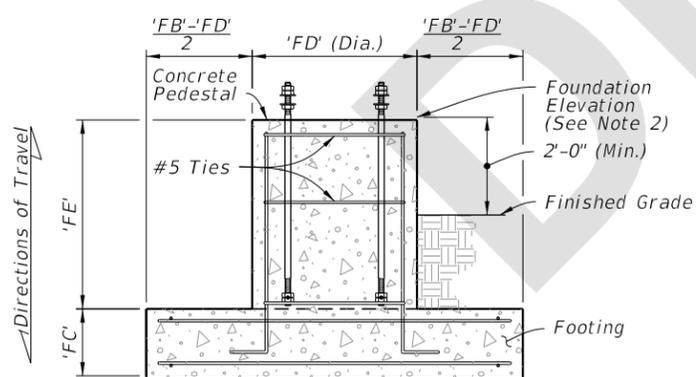


PLAN



ELEVATION

- NOTES:**
- Construction joint allowed, roughen surface to 1/4" minimum amplitude prior to pour.
 - See Traffic Plans for elevation at top of Foundation.
 - Install Drilled Shaft with a 2'-0" minimum from top elevation of the drilled shaft to the finished grade, unless specified otherwise in the plans.
 - The shaft length is based on 2'-0" height above finished grade.
 - Structural Grout Pad dimension may be modified to be less than 3" where the footprint of the Structural Grout Pad does not provide adequate clearance for accessibility considerations.
 - Wrap fillet weld around the stiffener termination on the tube wall.
 - Weld plates 'BD' in a star pattern. A star pattern is one in which the plates on opposite and near opposite sides of the pole circle are successively welded in a pattern resembling a star. For an 8 plate circle with plates sequentially numbered 1 to 8, weld the plates in the following order: (1, 5, 7, 3, 8, 4, 6, 2).



FRONT ELEVATION

FOOTING AND PEDESTAL

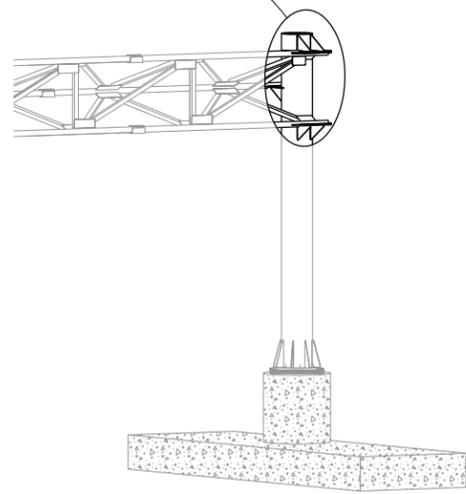
DRILLED SHAFT (Alternate Foundation)

FOUNDATION

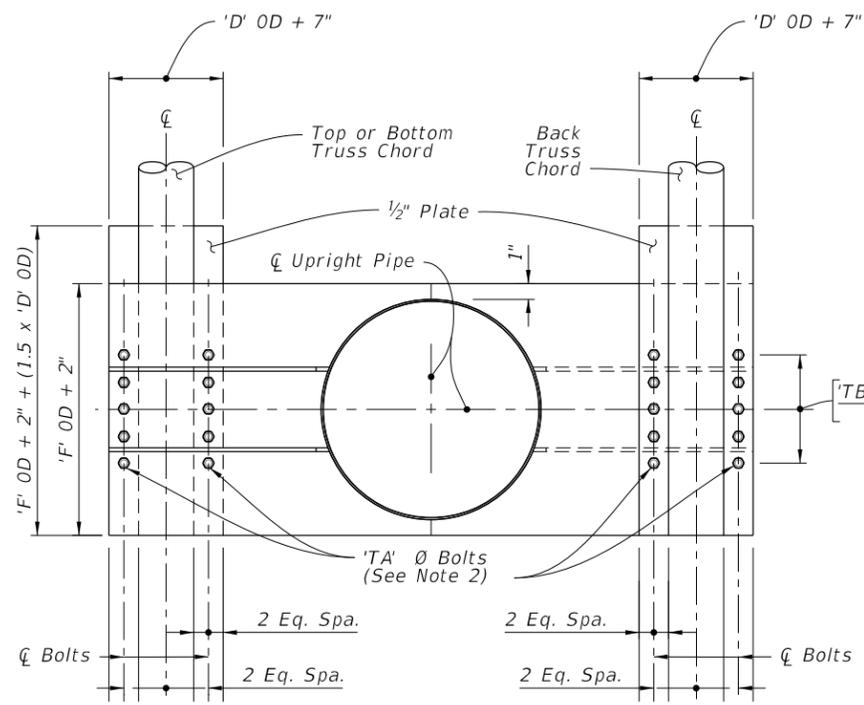
BASE PLATE CONNECTION

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LAST REVISION 11/01/22	DESCRIPTION:		FY 2023-24 STANDARD PLANS	CANTILEVER SIGN STRUCTURE	INDEX	SHEET
						700-040

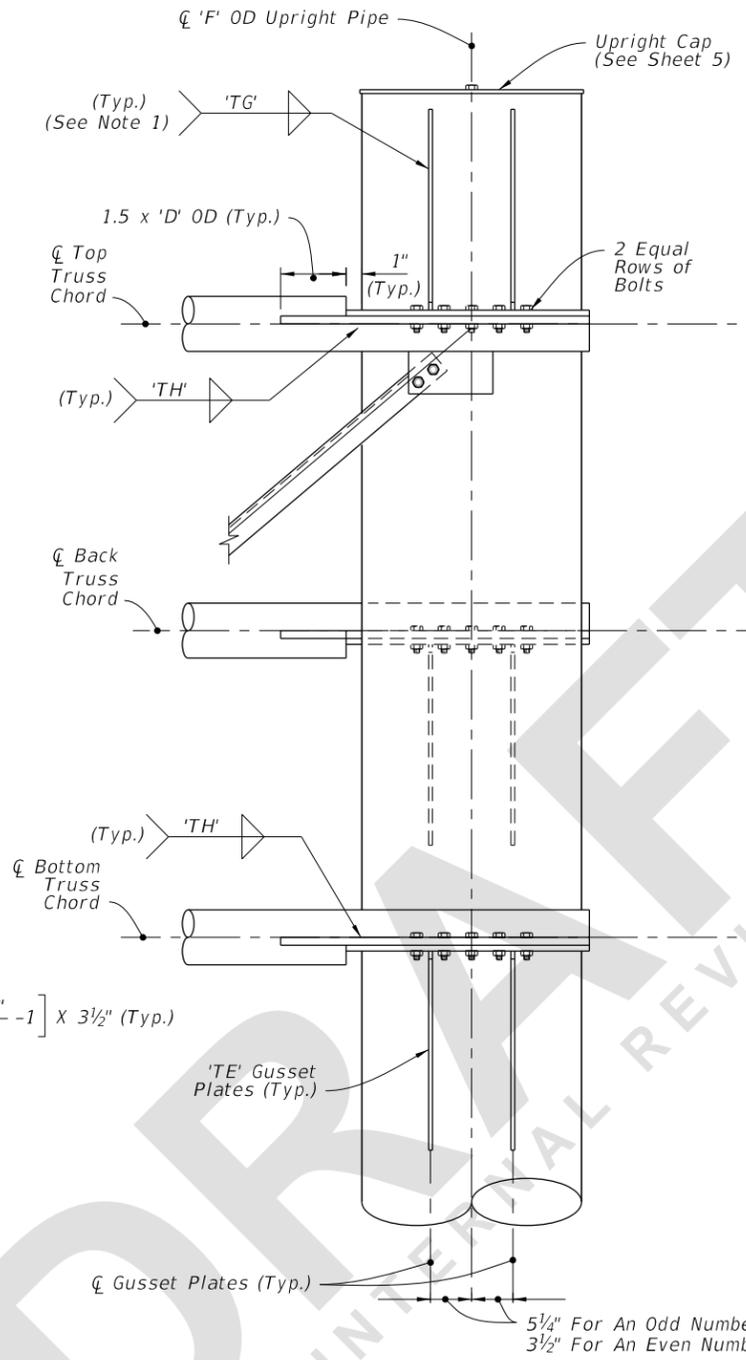


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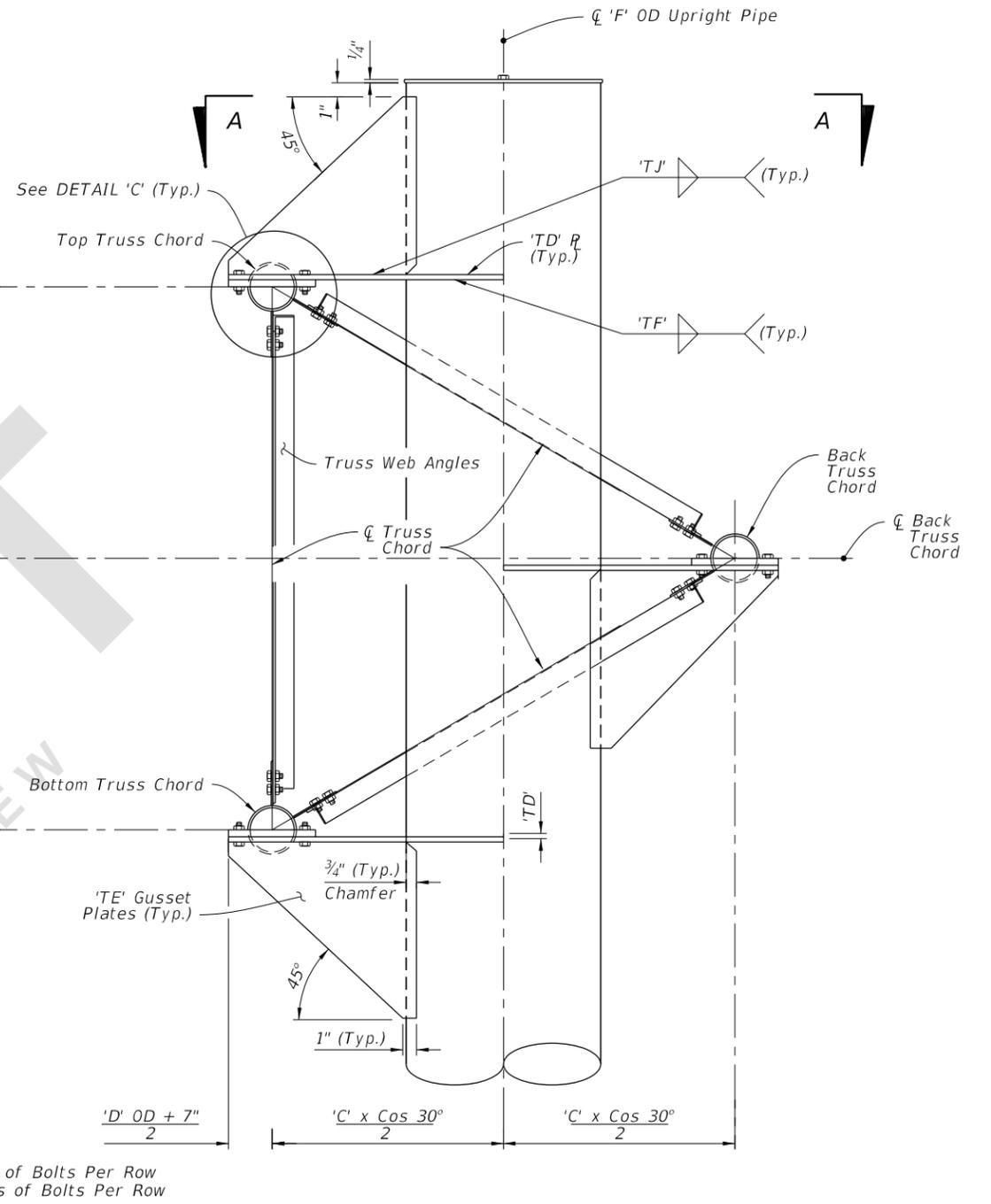


SECTION A-A

(With Gusset Plates And Web Angles Omitted For Clarity)



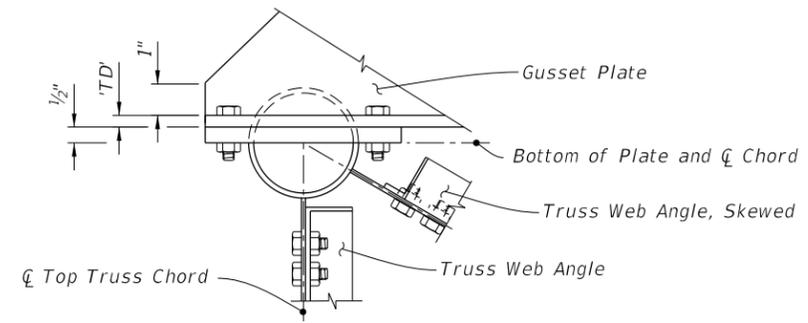
FRONT ELEVATION



SIDE ELEVATION

UPRIGHT-TRUSS CONNECTION DETAIL

(Web Members From Back Truss Chord Omitted For Clarity)



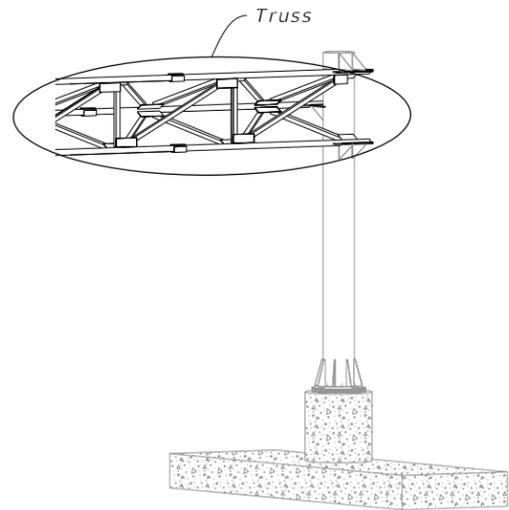
DETAIL 'C'

NOTES:

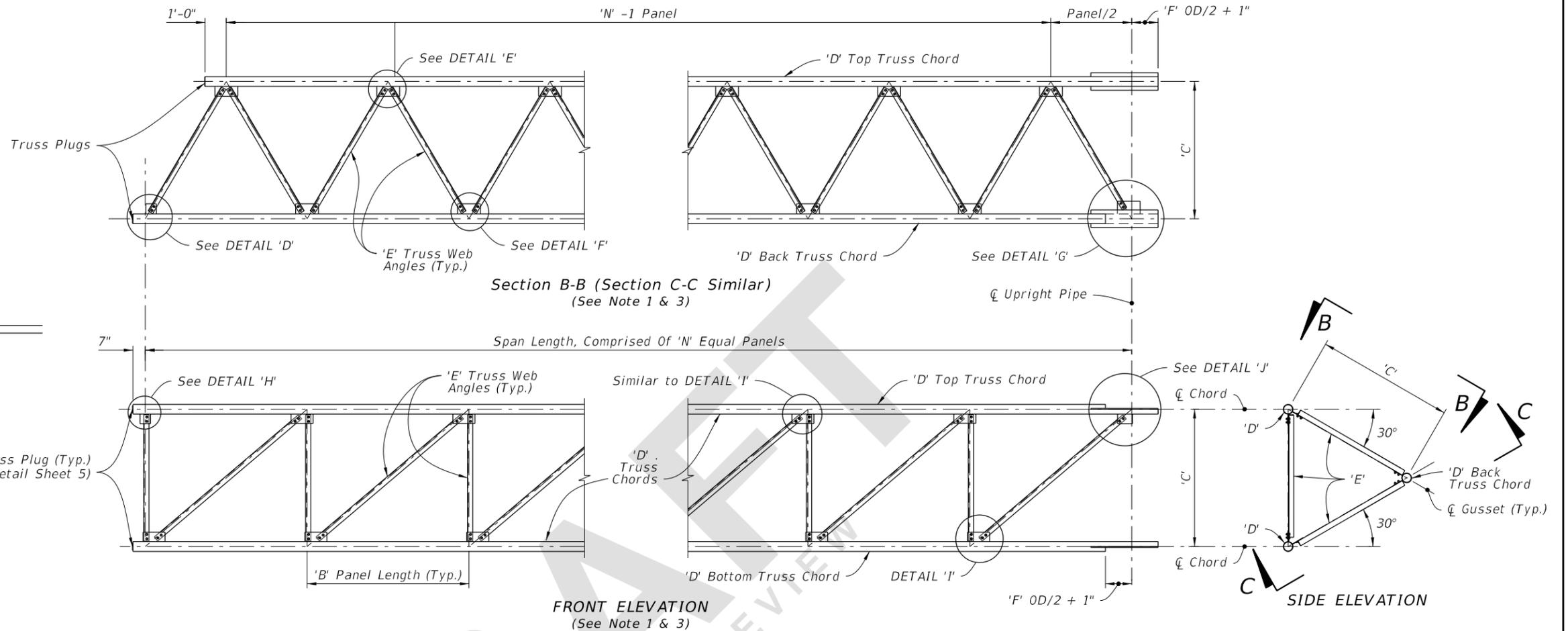
1. Wrap fillet weld around the stiffener termination on the tube wall.
2. Truss Chord Bolts:
 - A. Top and Bottom: Install 'TC' hex head bolts.
 - B. Back: Install 'TB' hex head bolts.

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LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	CANTILEVER SIGN STRUCTURE	INDEX 700-040	SHEET 3 of 5
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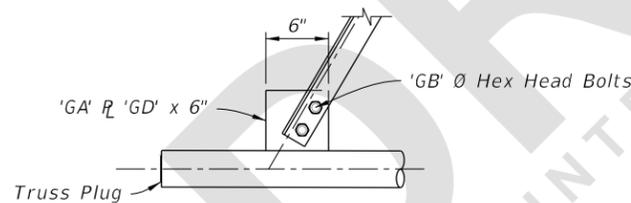
CANTILEVER ASSEMBLY



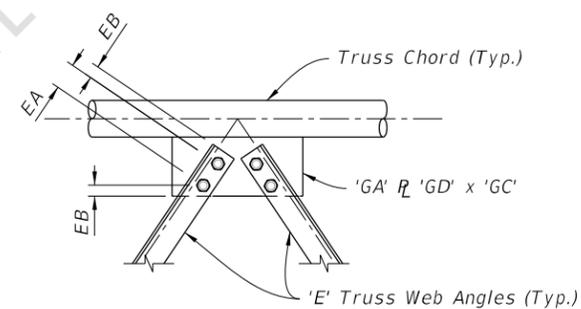
TRUSS NOTES:

1. Out-of-plane members are not shown for clarity.
2. Wrap fillet weld around plate termination on the tube wall.
3. Chord Splices not shown.

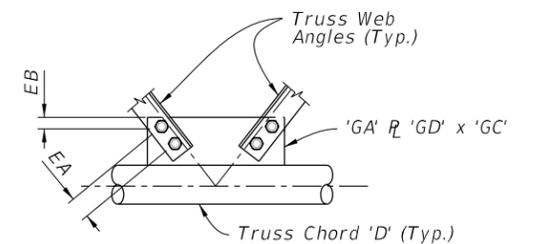
Bolt Size	Distance	
	EA	EB
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1" Ø	3 1/2"	1 3/4"
7/8" Ø	3"	1 1/2"
3/4" Ø	2 1/2"	1 1/4"
5/8" Ø	2 1/4"	1 1/8"



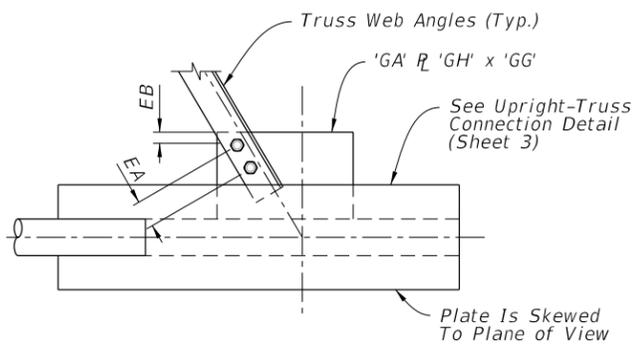
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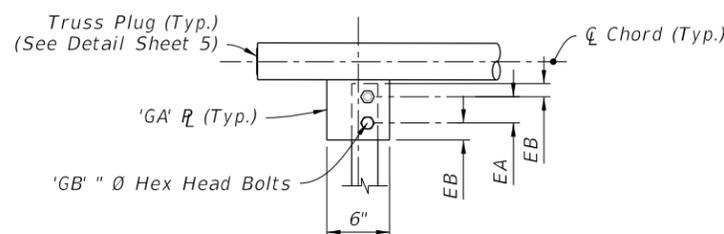
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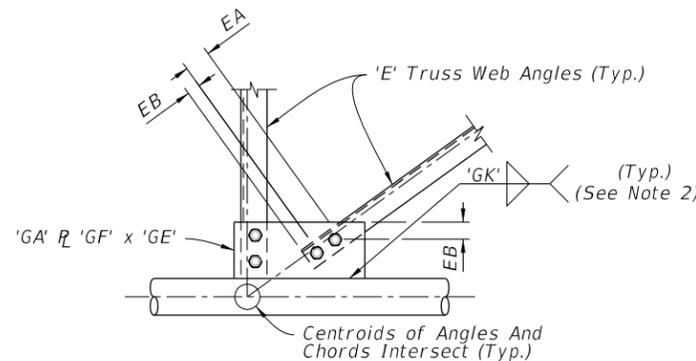
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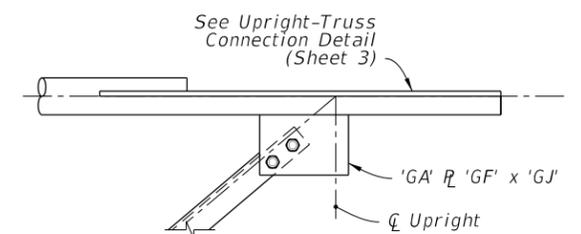
DETAIL 'G'



DETAIL 'H'



DETAIL 'I'



DETAIL 'J'

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LAST REVISION	DESCRIPTION:
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