
ORIGINATION FORM

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

Contact Information:

Date: August 5, 2021
Originator: Andre Pavlov
Phone: (850) 414-4293
Email: Andre.Pavlov@dot.state.fl.us

Standard Plans:

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

Summary of the changes:

Sheet 2: Changed the 2'-2" lap splice for the #5 tie bars on the spread footing plan view to 1'-8"; Revised Note 5 to read "After galvanizing, provide magnetic particle testing on 100% of upright fillet welds."

Additional Commentary: During maintenance inspections, weld cracks were found on in-service overhead sign structure supports. A FDOT investigation determined the cracks were formed during fabrication. To implement a better fabrication quality control processes, the note on the Standard is being changed.

Commentary / Background:

The reference shown for longitudinal bars is incorrect.

Required lap length for #5 tie bars for spread footing shall be shorter rather than longer than what is required for drilled shaft (2'-0") due to higher concrete strength of spread footing.

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:

(Email or hand deliver package to Rick Jenkins)

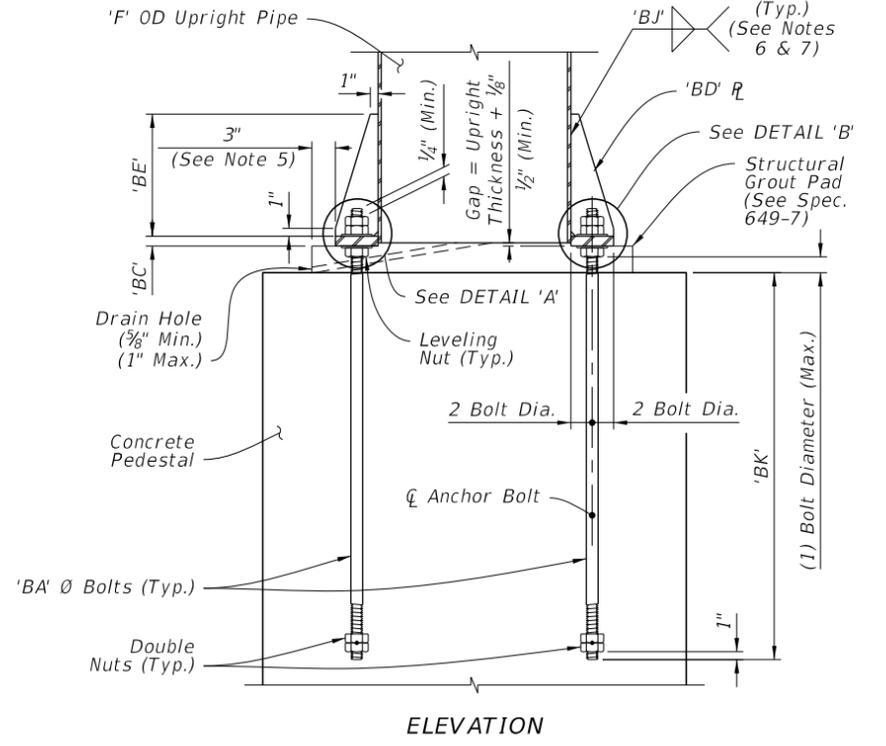
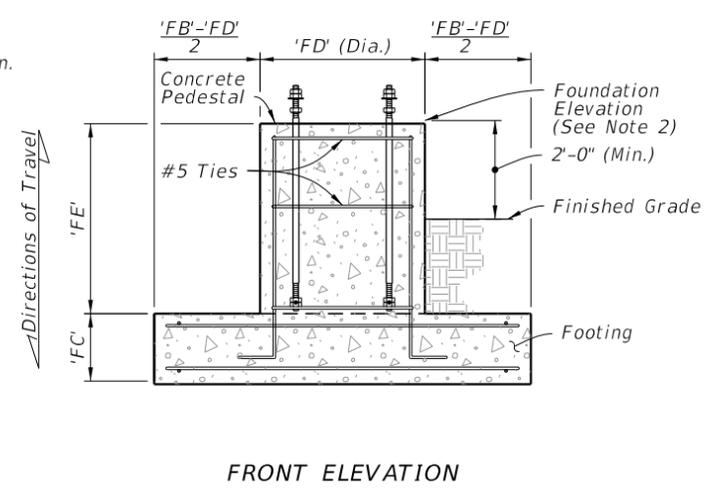
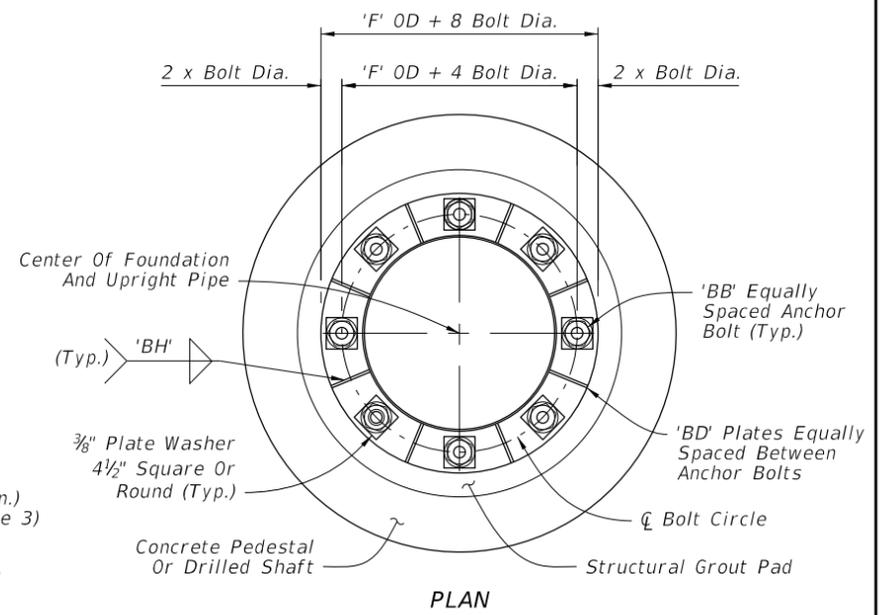
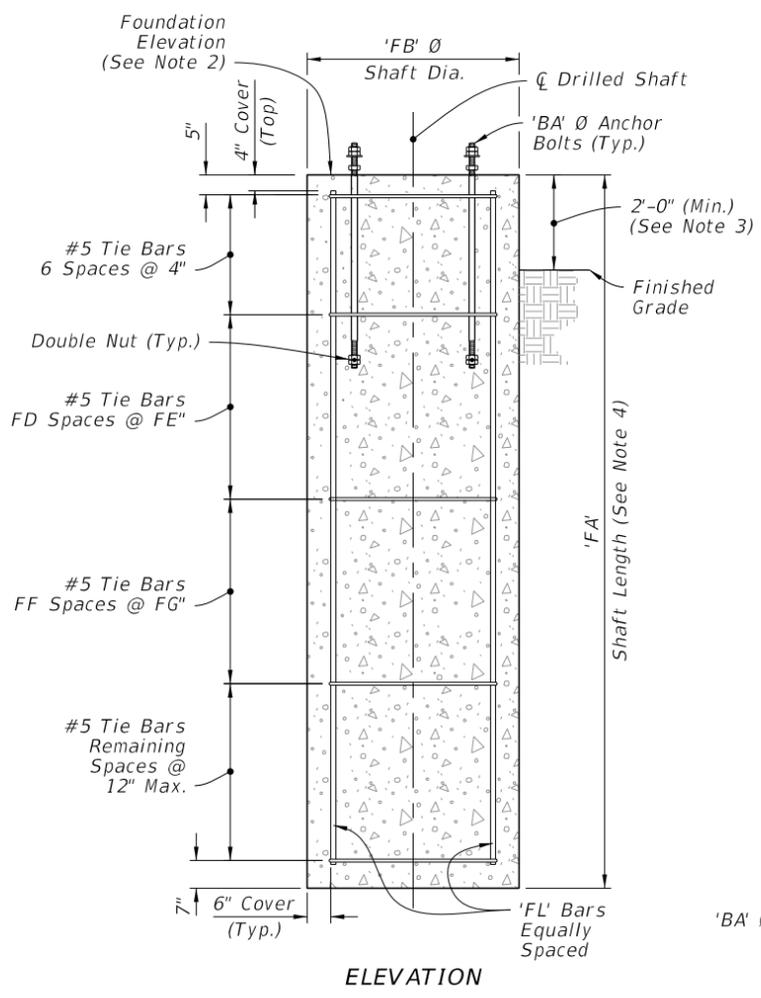
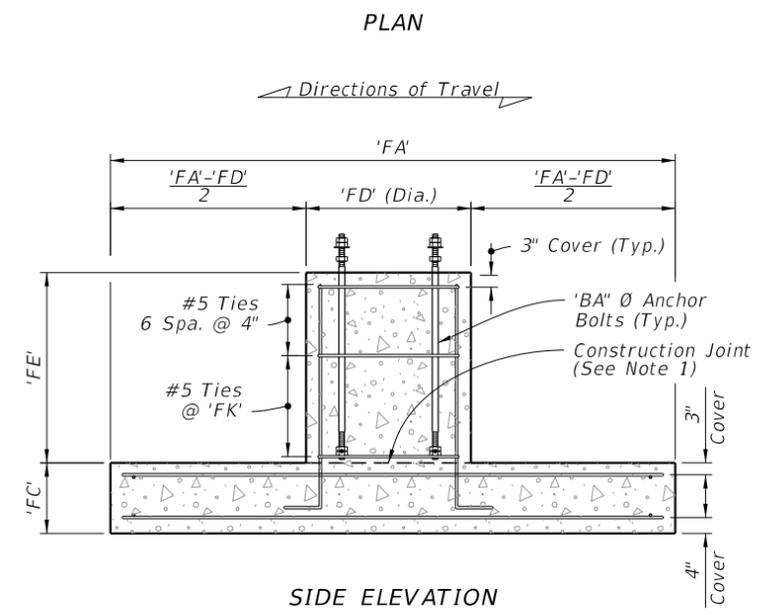
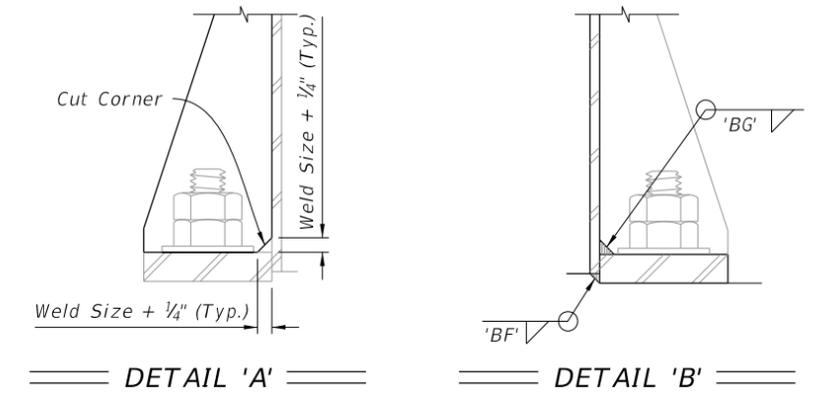
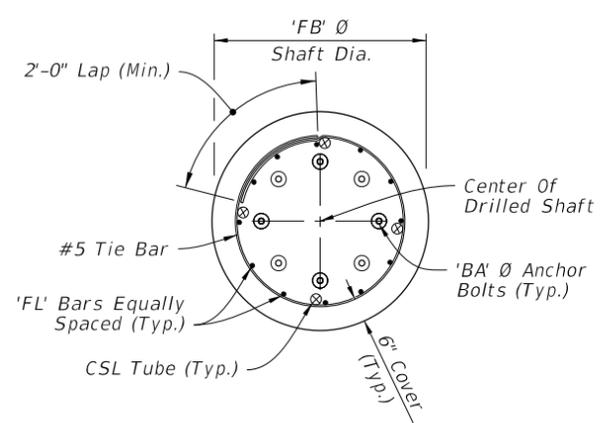
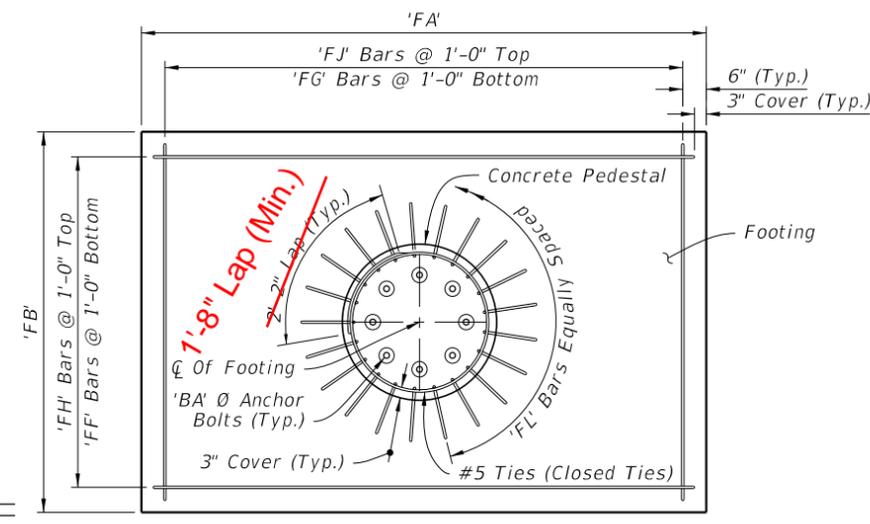
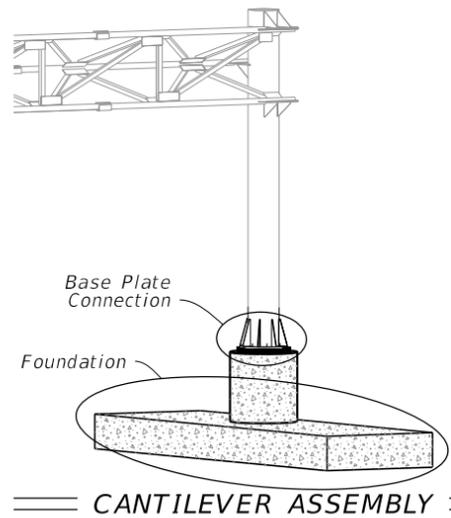
- | Yes | N/A | |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/> |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

Implementation:

- | | |
|-------------------------------------|----------------------------------|
| <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.
 - Provide ultrasonic testing for Lamellar Tearing when wall thickness exceeds 1/2"
- After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.**

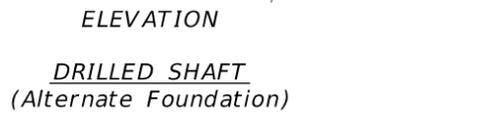
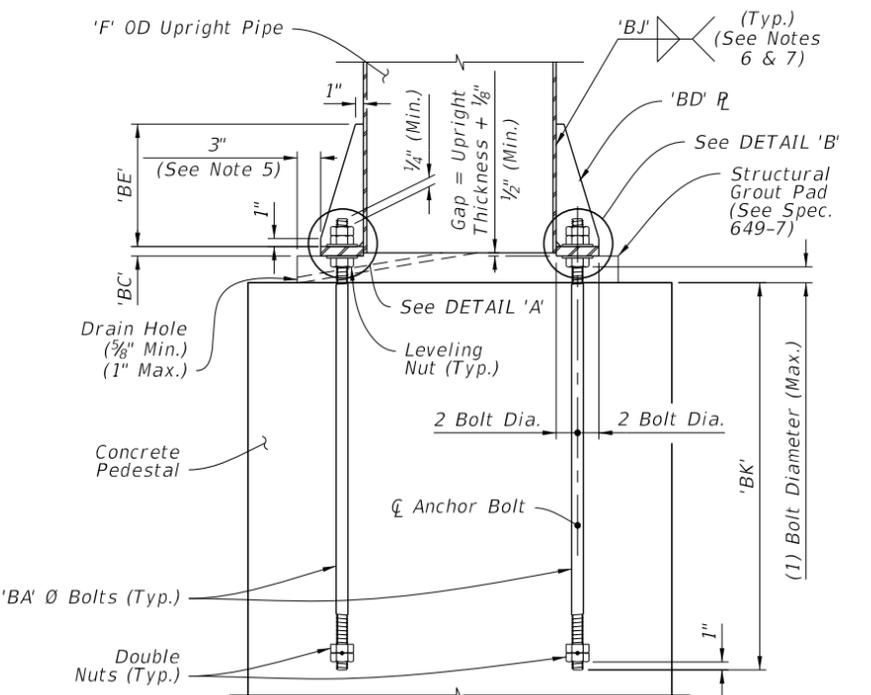
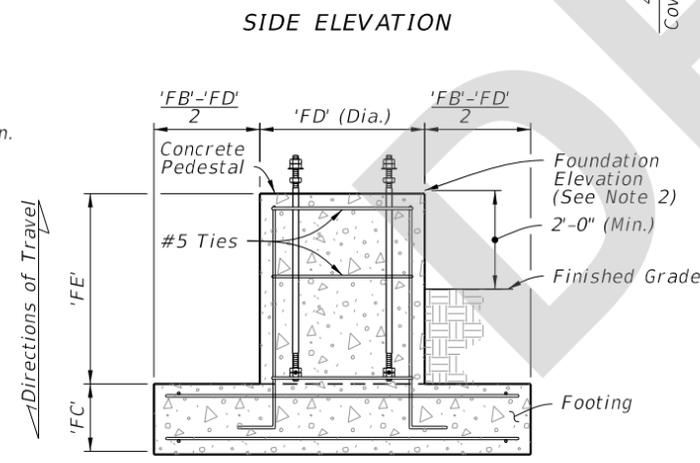
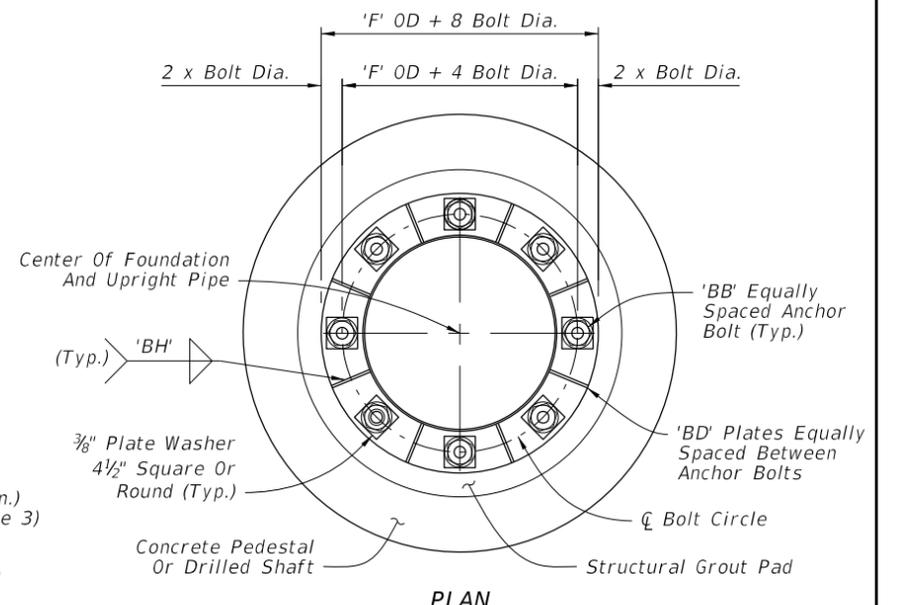
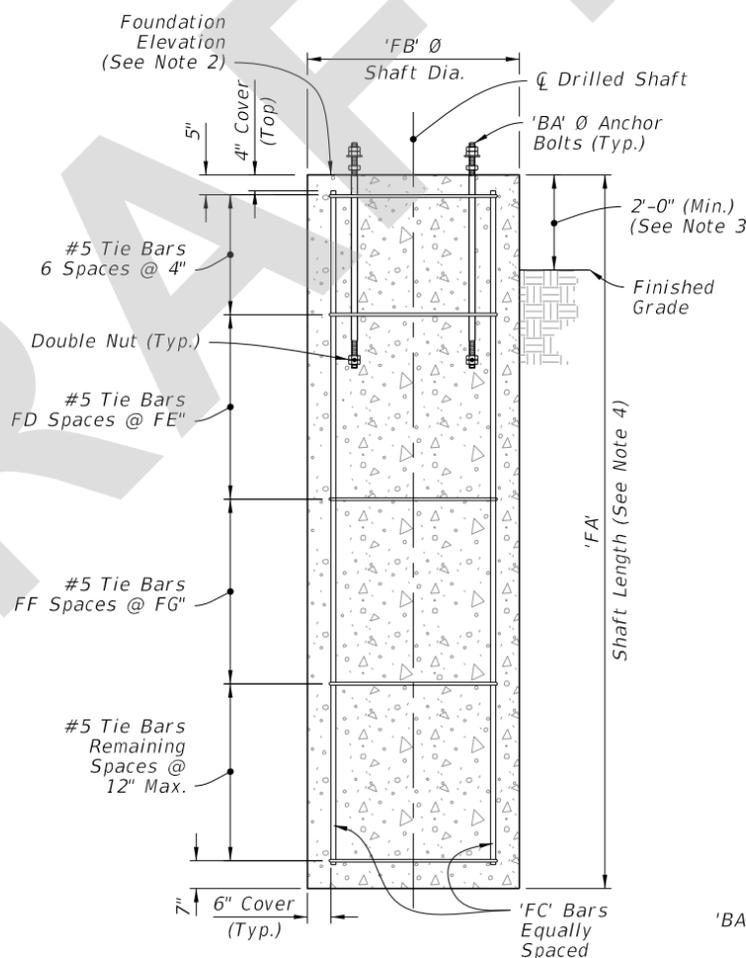
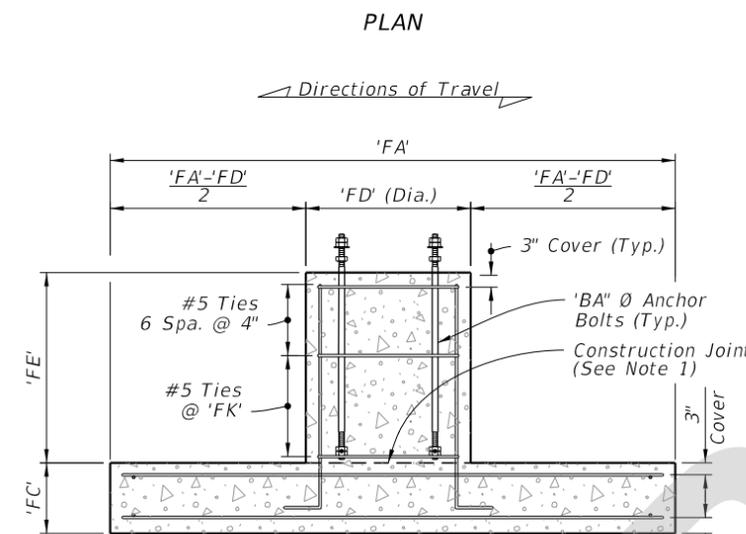
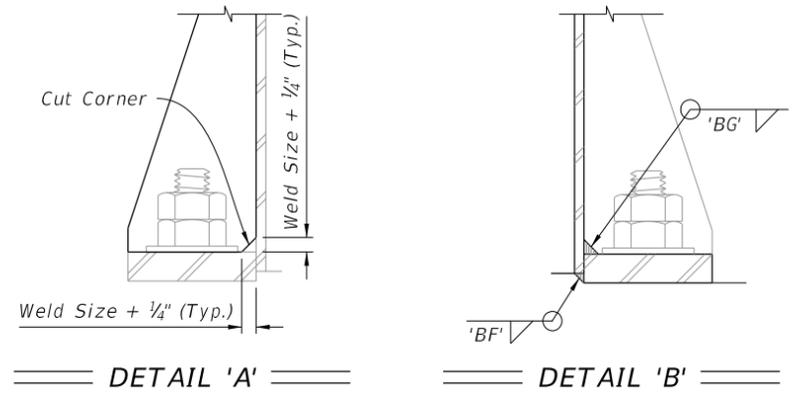
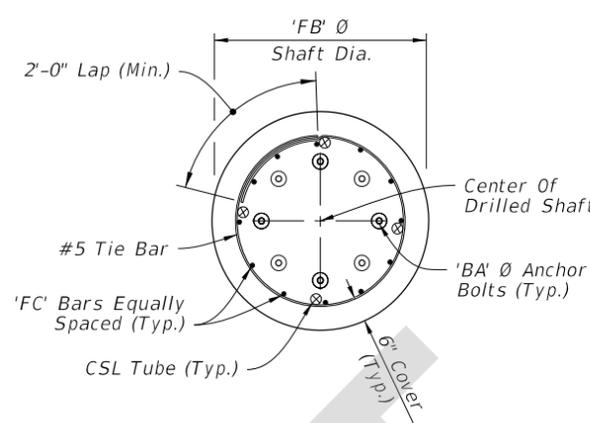
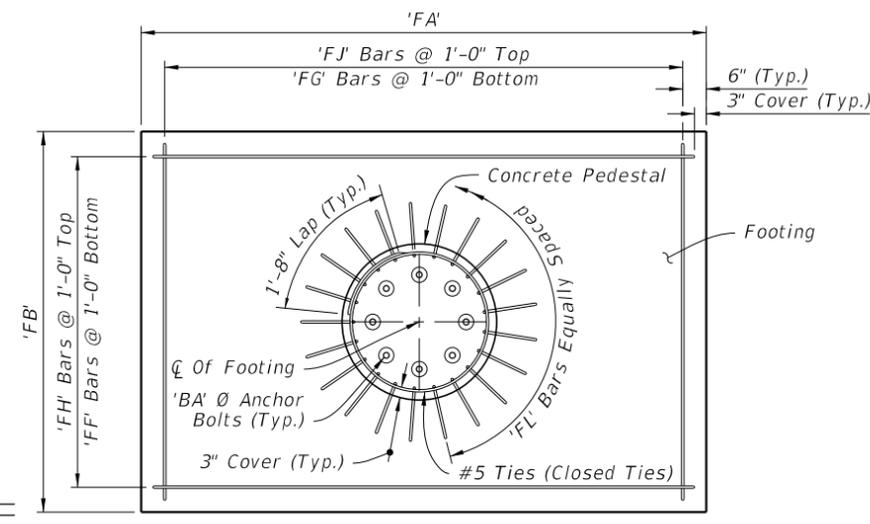
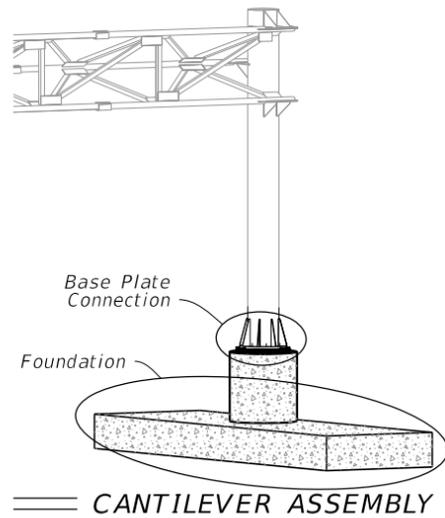
FOOTING AND PEDESTAL

DRILLED SHAFT (Alternate Foundation)

BASE PLATE CONNECTION

10/12/2020 9:01:07 AM

LAST REVISION	DESCRIPTION:
11/01/20	11/01/21



- NOTES:**
1. Construction joint allowed, roughen surface to 1/4" minimum amplitude prior to pour.
 2. See Traffic Plans for elevation at top of Foundation.
 3. 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.
 4. The shaft length is based on 2'-0" height above finished grade.
 5. 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.
 6. Wrap fillet weld around the stiffener termination on the tube wall.
 7. After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.

FOUNDATION **BASE PLATE CONNECTION**

8/30/2021 1:47:35 PM

LAST REVISION 11/01/21	REVISION	DESCRIPTION:		FY 2022-23 STANDARD PLANS	CANTILEVER SIGN STRUCTURE	INDEX 700-040	SHEET 2 of 5
---------------------------	----------	--------------	--	------------------------------	---------------------------	------------------	-----------------