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## ORINATION FORM

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### Proposed Revisions to a Standard Plans Index

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

**Contact Information:**

Date: May 2, 2023

Originator: Joshua Turley

Phone: (850) 414-4475

Email: [joshua.turley@dot.state.fl.us](mailto:joshua.turley@dot.state.fl.us)

**Standard Plans:**

Index Number: 700-020

Sheet Number (s): 1, 3 of 3

Index Title: MULTI-COLUMN GROUND SIGN

**Summary of the changes:**

Sheet 1: Revised bolts in the Hanger Beams to show correctly.

Sheet 2: Revised bolts in the Hanger Beams to show correctly.

**Commentary / Background:**

The bolts were not showing correctly in the elevation details.

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

- | Yes                                 | No                                  |                                |
|-------------------------------------|-------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Other Standard Plans – 700-030 |
| <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                      |   |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups                                    |
| <input type="checkbox"/>            | <input type="checkbox"/> | Revised or Proposed Standard Plan Instruction (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) |

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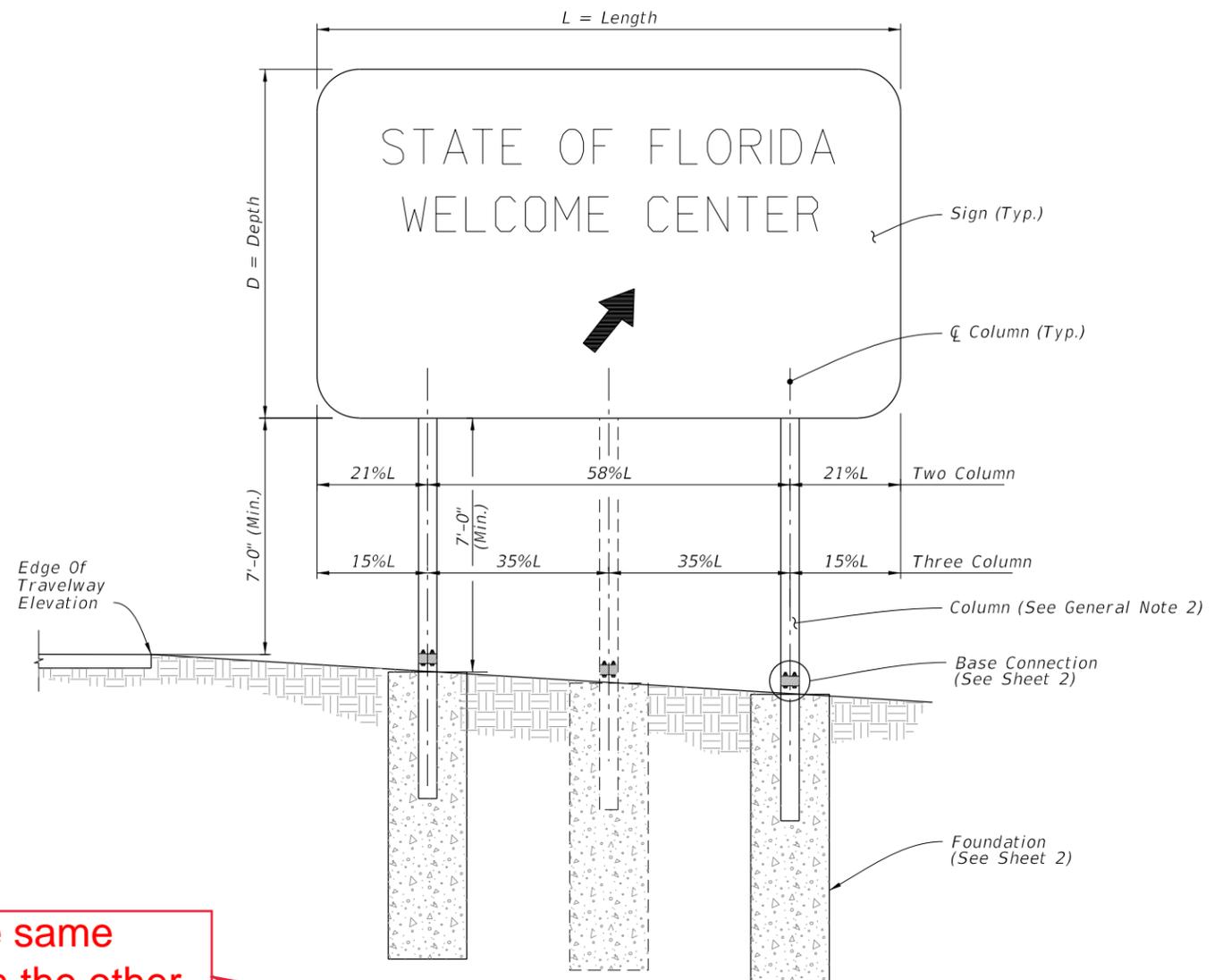
Contact the Roadway Design Office for assistance in completing this form

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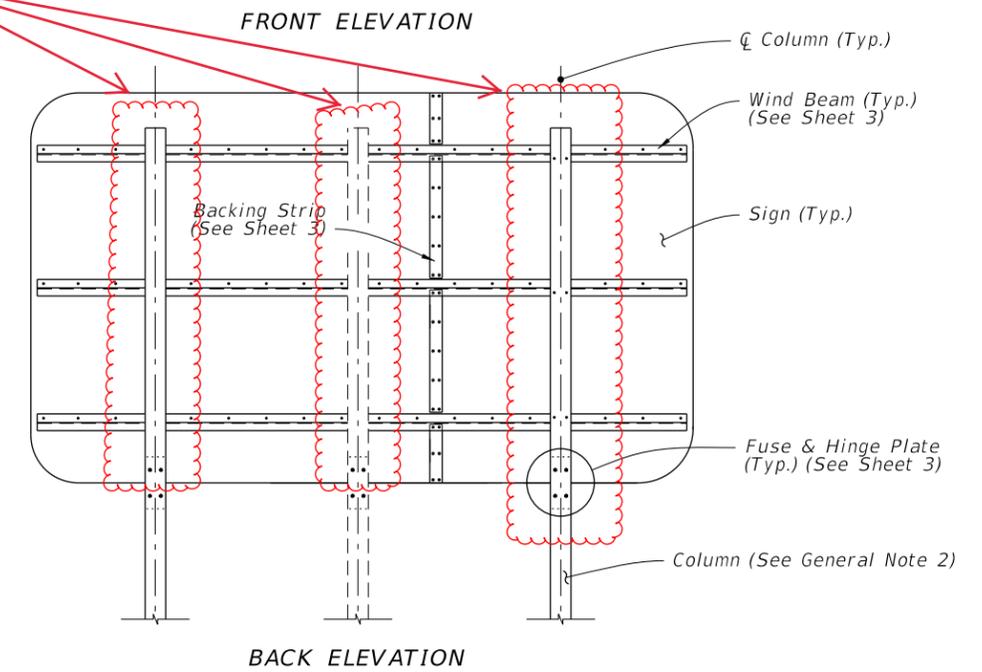
Email to: Rick Jenkins [rick.jenkins@dot.state.fl.us](mailto:rick.jenkins@dot.state.fl.us) and Darren Martin [darren.martin@dot.state.fl.us](mailto:darren.martin@dot.state.fl.us)

**GENERAL NOTES:**

1. Meet the requirements of Specification 700.
2. Verify Column lengths in the field prior to fabrication.
3. Shop drawings:
  - A. Sign Support Shop drawings are not required when fabricated in accordance with this Index and support columns do not exceed the length shown in the plans by more than 2'-0".
  - B. Sign Panels: Horizontal panel splices are allowed at interior wind beams for sign panels with a depth ("D") greater than 10 feet. Shop drawings required for horizontal panel splice details.
  - C. When shop drawings are required, obtain approval prior to fabrication.



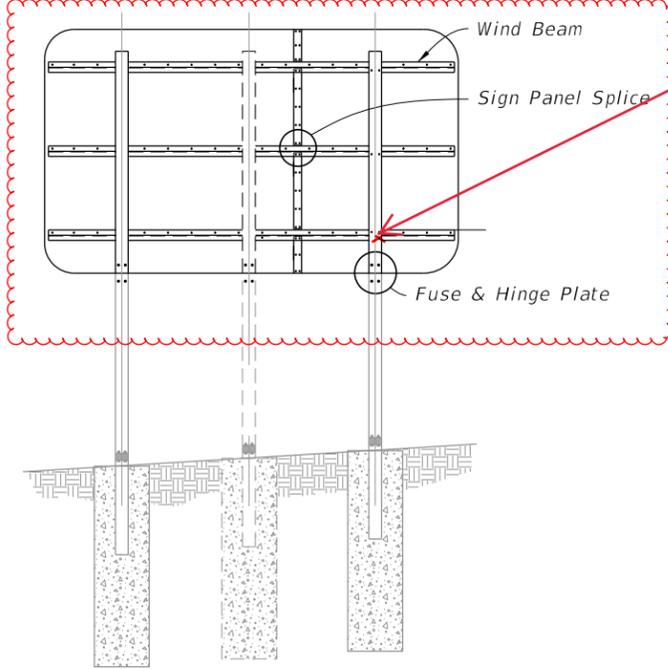
Show the same bolting on the other wind hanger beams



FRONT ELEVATION  
BACK ELEVATION  
MULTI-COLUMN SIGN ASSEMBLY

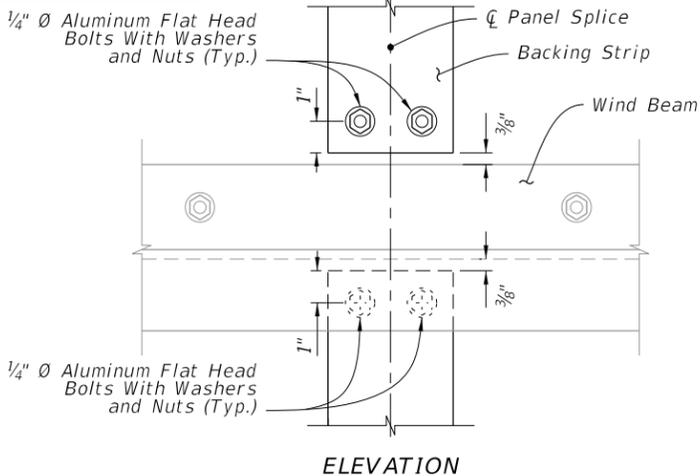
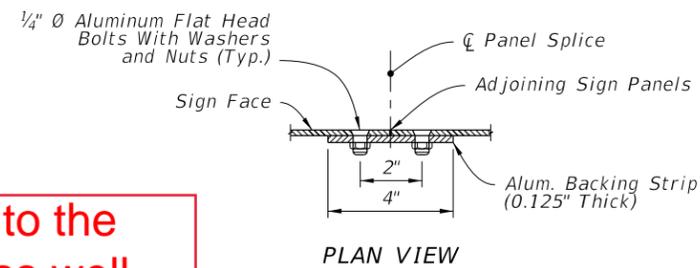
10/13/2022 9:26:07 AM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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**Only 2 bolts per intersection**

**Add the bolts to the other beams as well**

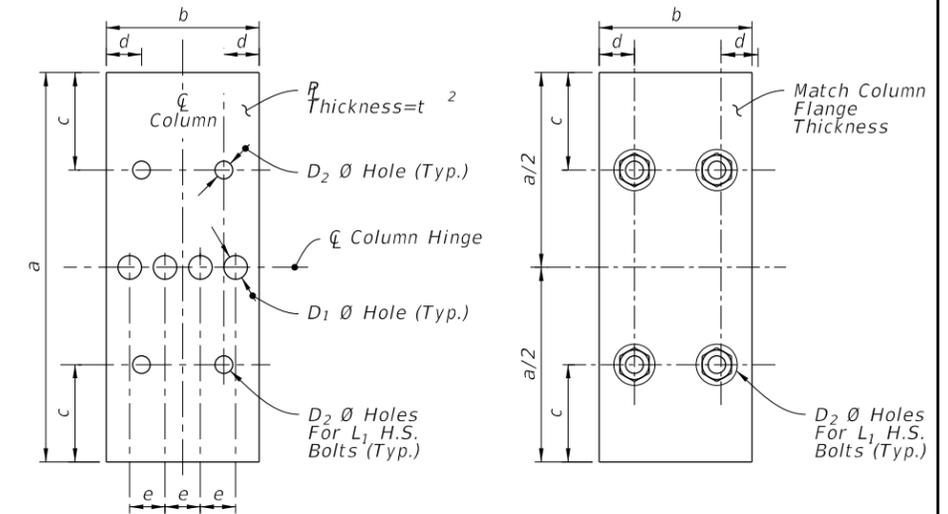


**SIGN PANEL SPLICE**

**FUSE (HINGE) PLATE DATA**

Steel Section*	a	b	c	d	e	t <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>
S 3x5.7	7-1/4"	2-3/8"	1-1/4"	1/2"	9/16"	3/8"	7/16"	9/16"	1/2"
W 6x12	7-1/4"	4"	1-1/4"	7/8"	15/16"	3/8"	13/16"	11/16"	5/8"
W 8x18	8-1/4"	5-1/4"	1-3/8"	1-1/8"	1-1/4"	3/8"	1"	13/16"	3/4"
W 8x24	8-1/4"	6-1/2"	1-3/8"	1-1/2"	1-1/2"	1/2"	1"	13/16"	3/4"
W 10x33	9-1/4"	8"	2"	1-3/4"	1-3/4"	5/8"	1-1/8"	1-1/16"	1"
W 12x45	11"	8"	2"	1-3/4"	1-3/4"	3/4"	1-5/16"	1-1/16"	1"

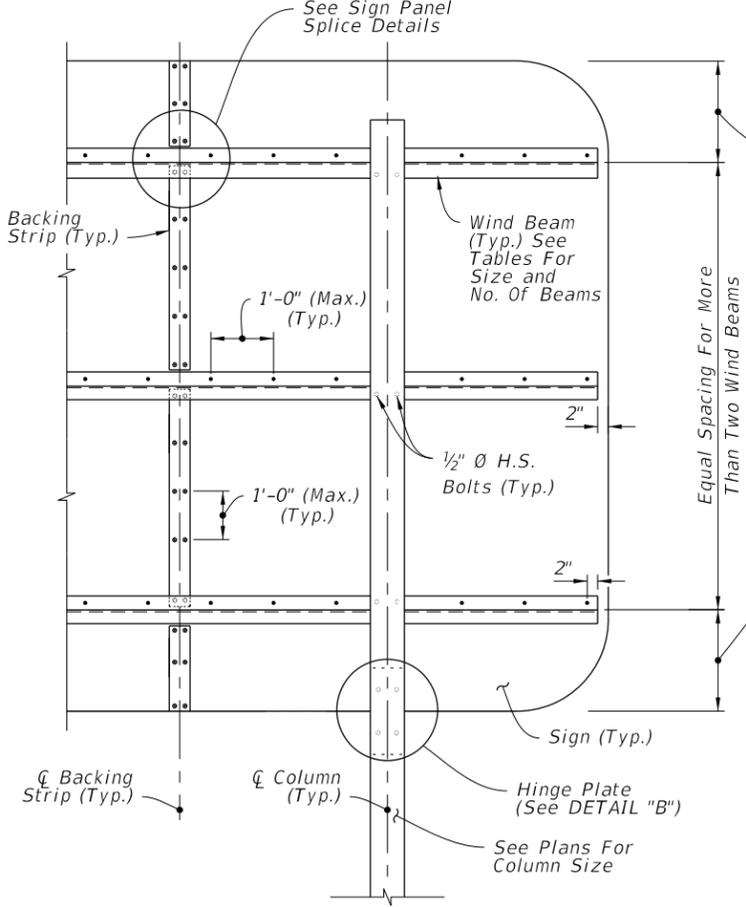
\* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



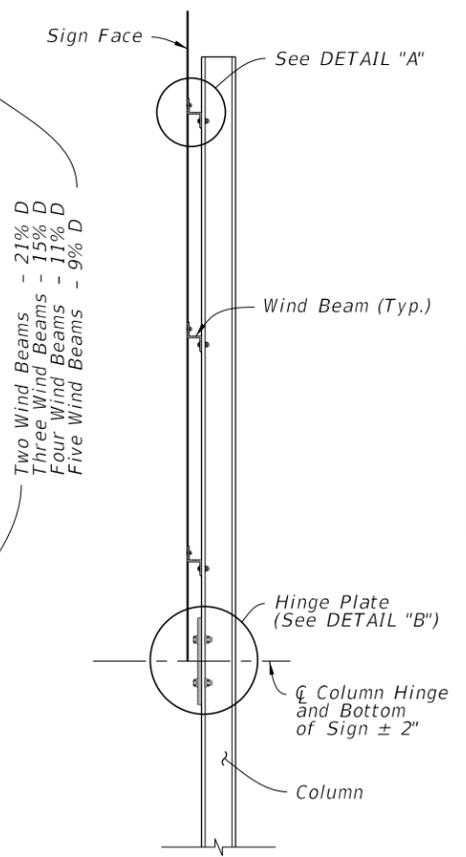
**FUSE PLATE**

**HINGE PLATE**

**BACK ELEVATION MULTI-COLUMN SIGN ASSEMBLY**



**BACK ELEVATION**



**SIDE ELEVATION**

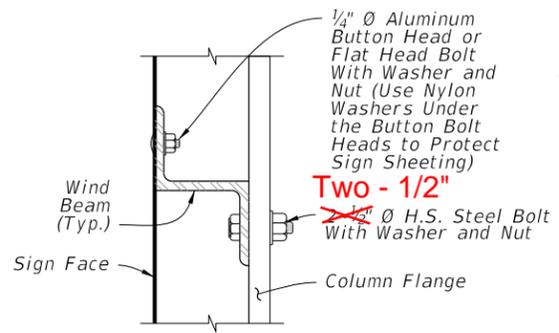
**NUMBER OF WIND BEAMS BASED ON SIGN DEPTH (D)**

2 Beams	3 Beams	4 Beams	5 Beams
D ≤ 8'	8' < D ≤ 12'	12' < D ≤ 16'	16' < D ≤ 20'

**WIND BEAM SIZE BASED ON SIGN LENGTH (L)**

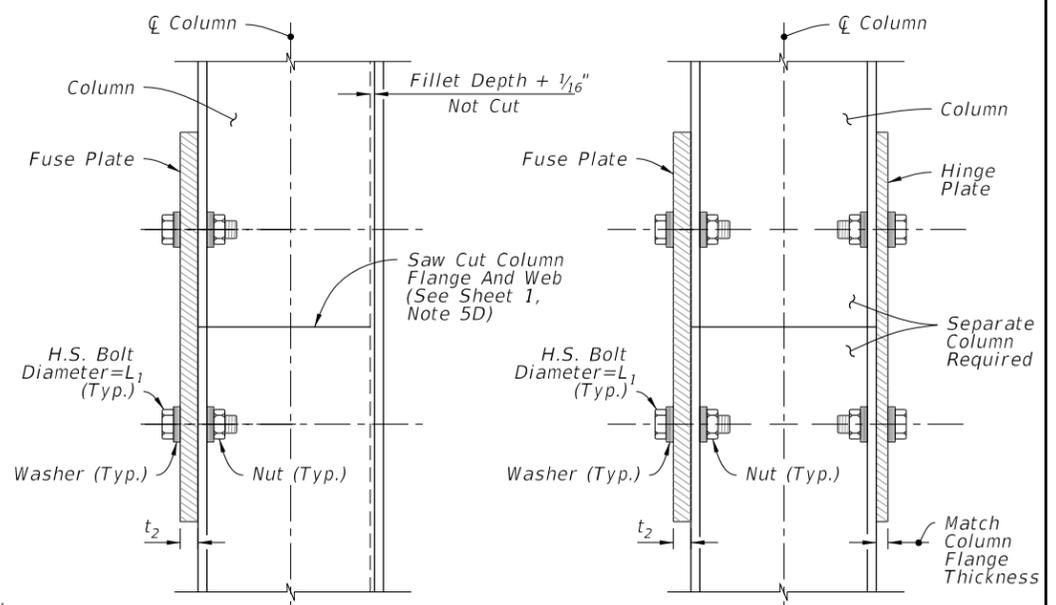
2 Columns	3 Columns	Aluminum Beam Size **
L ≤ 12'	L ≤ 18'	Z 1-3/4 x 1-3/4 x 1.09
12' < L ≤ 20'	18' < L ≤ 30'	Z 3 x 2-1/16 x 2.33
20' < L ≤ 25'	30' < L ≤ 39'	Z 4-1/16 x 3-1/8 x 3.57

\*\*Designation gives (Member Depth in inches) x (Flange Width in inches) x (lb/ft)



**DETAIL "A"**

**FUSE & HINGE PLATE**



**TYPICAL HINGE**

**OPTIONAL HINGE**

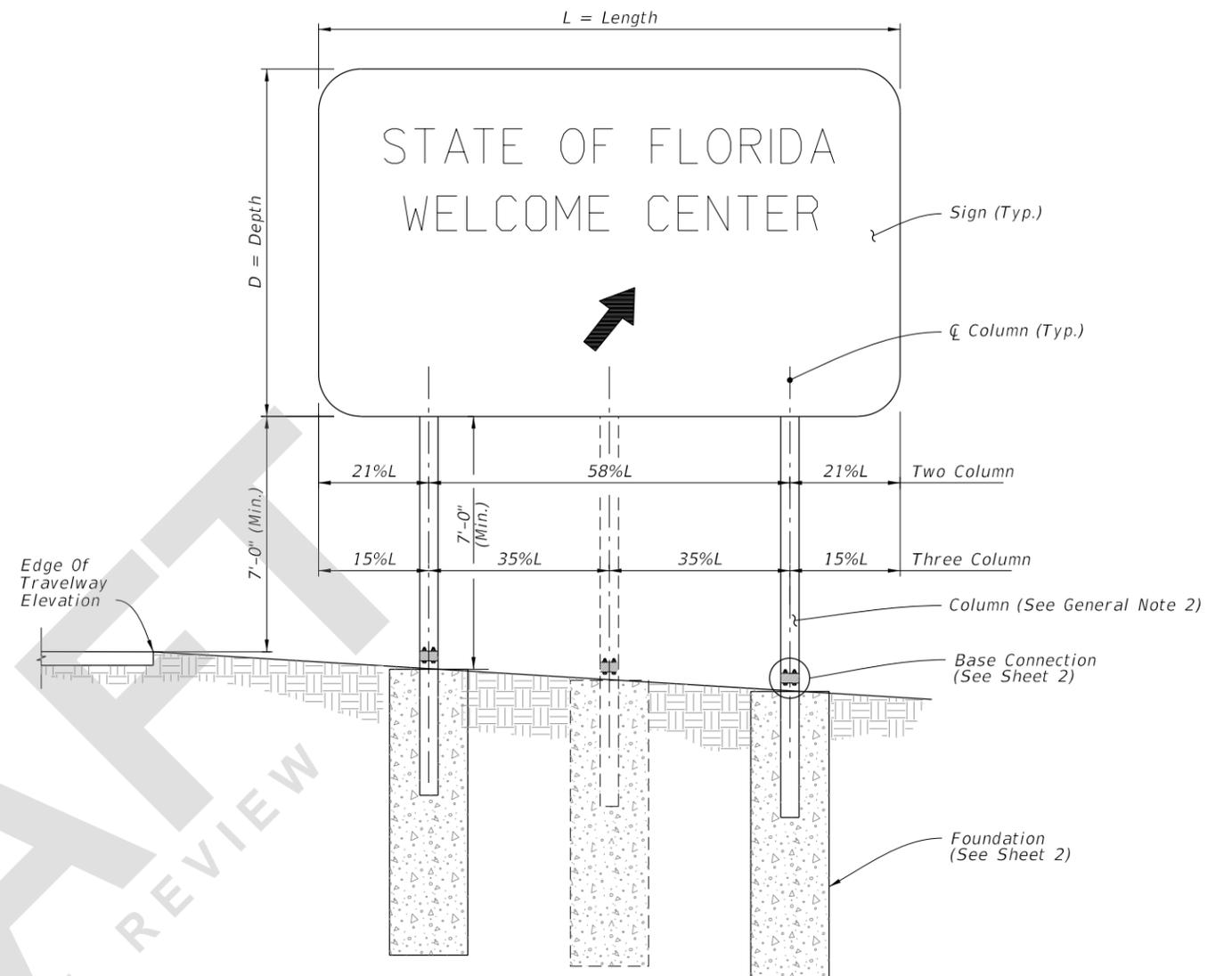
**WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS**

LAST REVISION	DESCRIPTION:
11/01/22	

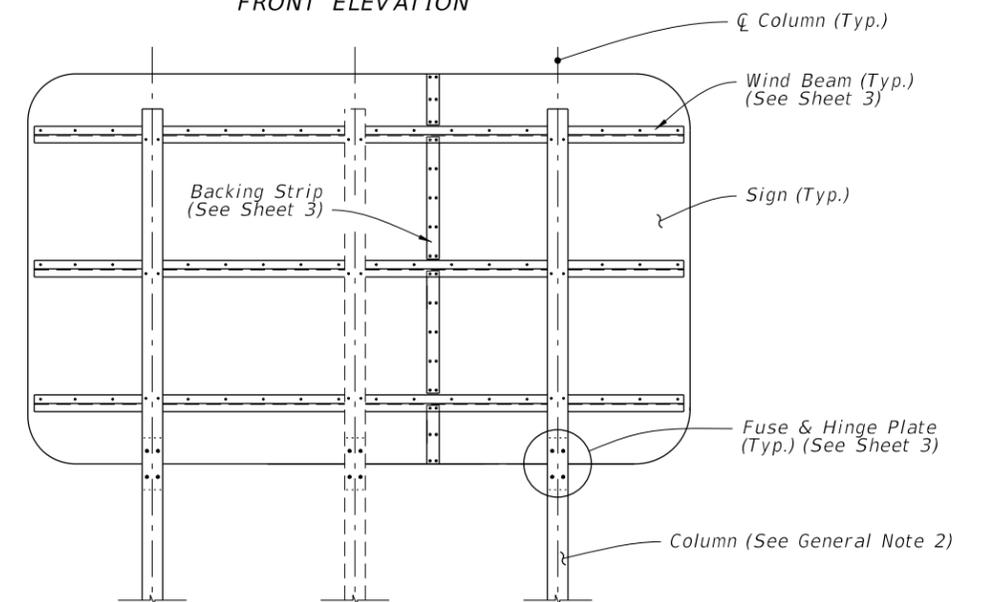
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**GENERAL NOTES:**

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FRONT ELEVATION



BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

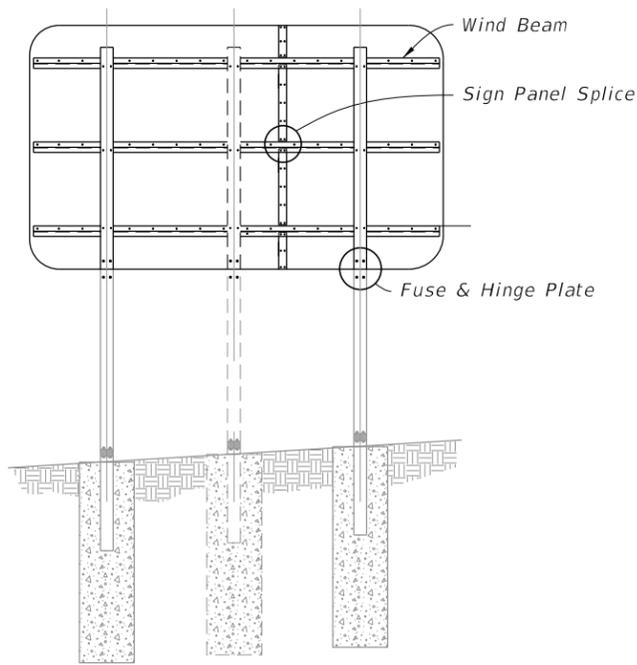
5/6/2023 3:44:27 PM

LAST REVISION 11/01/23	REVISION	DESCRIPTION:
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FY 2024-25  
 STANDARD PLANS

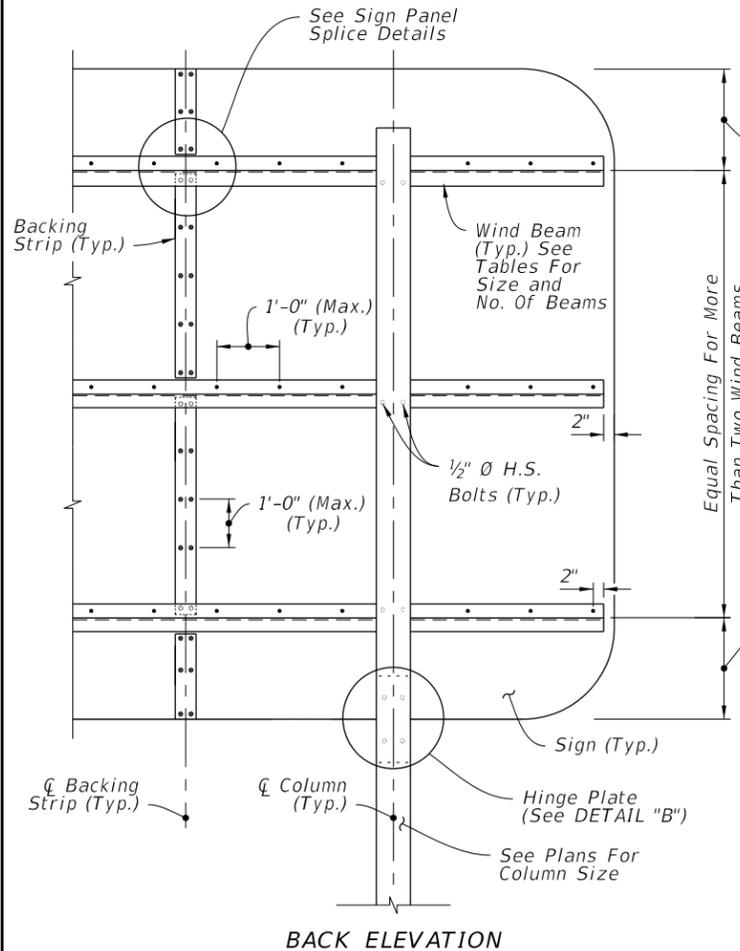
MULTI-COLUMN GROUND SIGN

INDEX 700-020	SHEET 1 of 3
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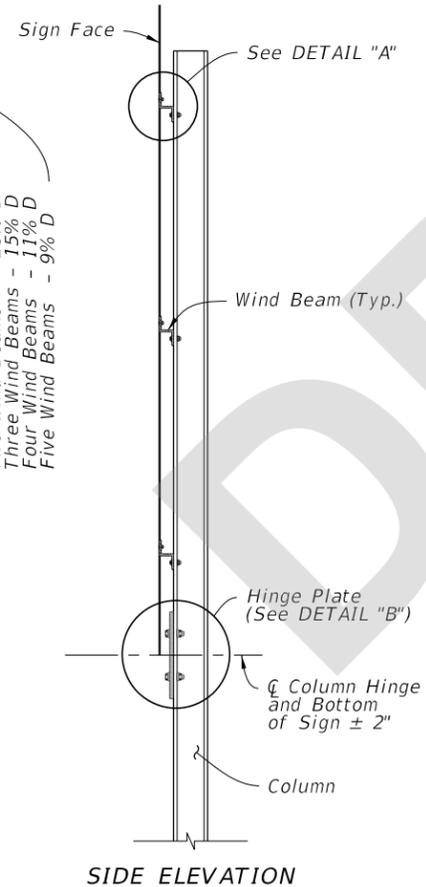
BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

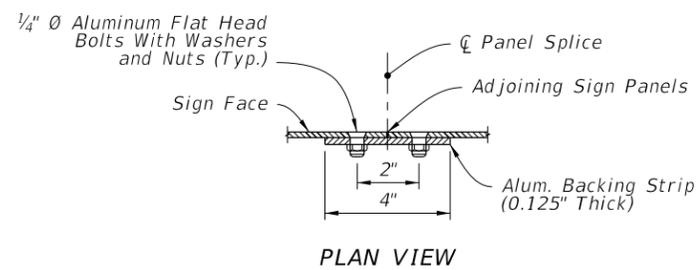


BACK ELEVATION

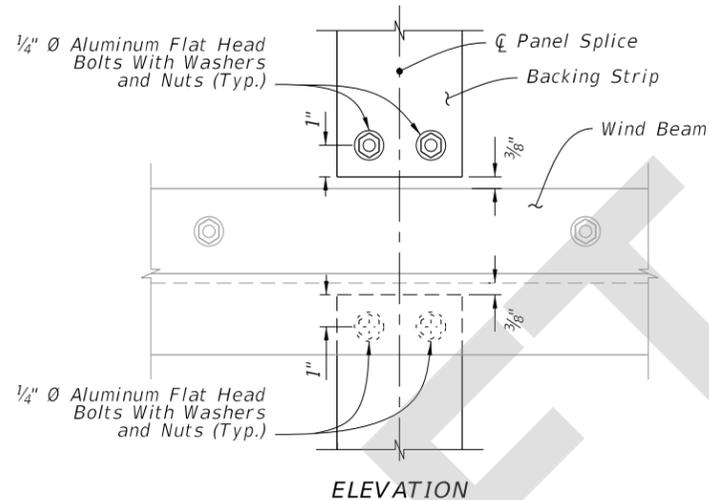
MULTI-COLUMN SIGN BACK PANEL



SIDE ELEVATION



PLAN VIEW



ELEVATION

SIGN PANEL SPLICE

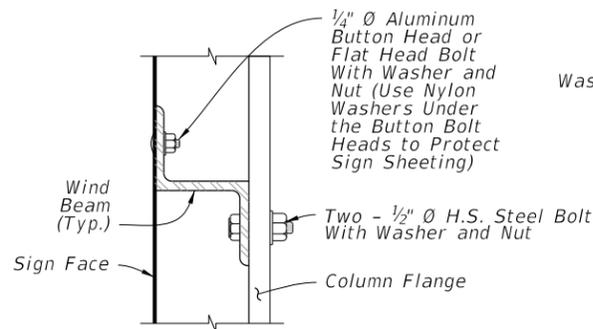
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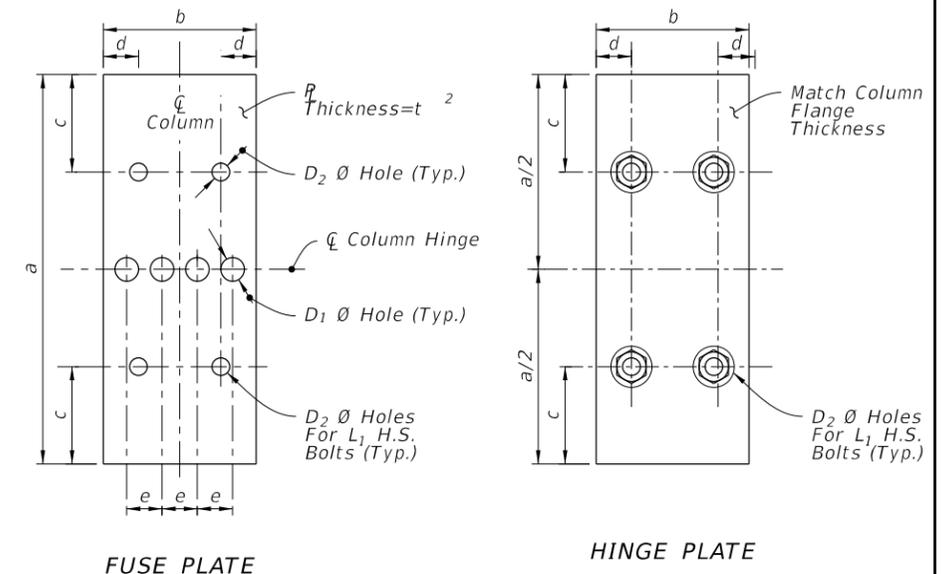


DETAIL "A"

FUSE (HINGE) PLATE DATA

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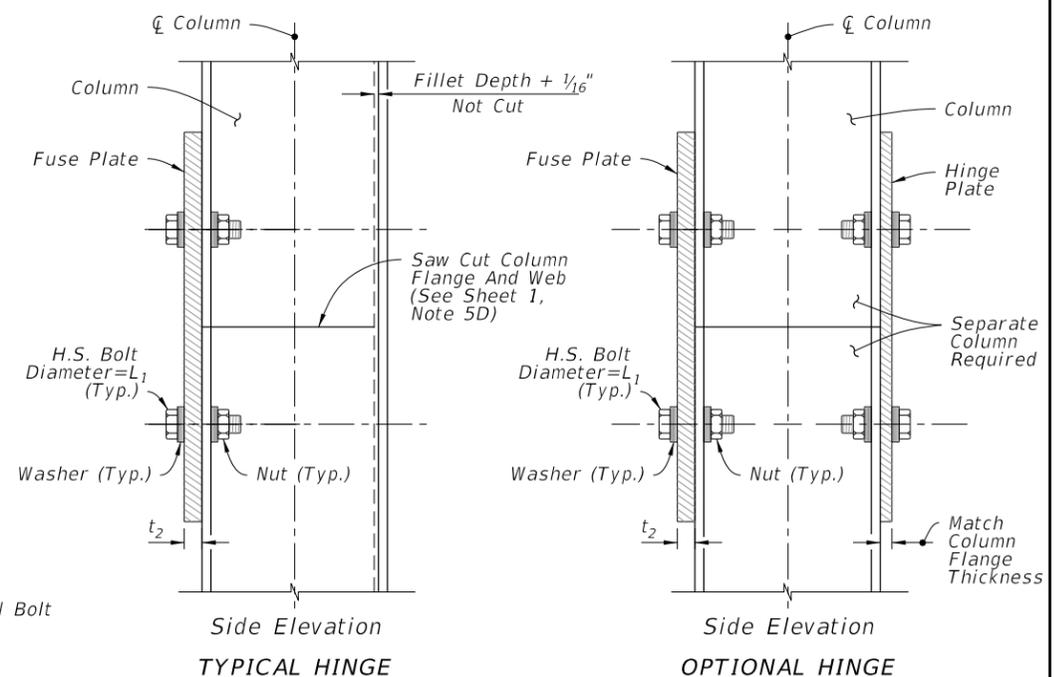
\* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



FUSE PLATE

HINGE PLATE

FUSE & HINGE PLATE



Side Elevation  
TYPICAL HINGE

Side Elevation  
OPTIONAL HINGE

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

5/6/2023 3:44:37 PM

LAST REVISION	DESCRIPTION:
11/01/23	

FY 2024-25  
STANDARD PLANS

MULTI-COLUMN GROUND SIGN

INDEX	SHEET
700-020	3 of 3