

# ORIGINATION FORM

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

## Contact Information:

Date: July 30, 2018  
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## Standard Plans:

Index Number: **700-020**  
Sheet Number (s): 1-3  
Index Title: Multi-Column Ground sign

## Summary of the changes:

Sheet 1: Changed three column spacing; Clarified Note 2 A & B; Changed Note 3 B-c to allow brass or galvanized shims; Sheet 2: Corrected weld symbols; Changed Section A-A; Changed Note 1B; Sheet 3: Clarified that bolt through sign can be button or flat head; added note to use nylon washer under button head (from Index 700-020); Changed Wind Beam Tables. 

## Commentary / Background:

Changed to allow both brass and galvanized shims. Weld symbols are redundant./incorrect. Tried to clarify column sections are steel. Wind Beam Tables were reorganized to clarify size based on length and # based on Depth.

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | 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 Derwood Sheppard)

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

## Implementation:

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

Contact the Roadway Design Office for assistance in completing this form

**GENERAL NOTES:**

1. Verify Column lengths in the field prior to fabrication.

2. Shop drawings:

A. Column/Sign Posts: Sign Support Shop drawings are not required when fabricated in accordance with this Index and support posts 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 panel splice details.

C. When shop drawings are required; obtain approval prior to fabrication.

**horizontal**

3. Materials:

A. Sign Panel Mounting Materials:

- a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
- b. Aluminum Structural Shapes: ASTM B308, Alloy 6061-T6

B. Sign Support Structure Materials:

- a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
- b. Steel Weld Metal: E70XX
- c. Brass Shims: ASTM B36

C. Aluminum Bolts, Nuts and Washers:

- a. Flat Head and Button Head Bolts: ASTM F 468, Alloy 2024-T4
- b. Hex Nuts: ASTM F467, 2024-T4
- c. Washers: ASTM B221, Alloy 7075-T6

D. Stainless Steel Bolts, Nuts and Washers Alloy Group 2, Condition A, may be substituted for the Aluminum bolts as follows:

- a. Bolts: ASTM F593, CW1 or SH1
- b. Nuts: ASTM F594,

E. High Strength (H.S.) Steel Bolts, Nuts and Washers:

- a. Galvanized Hex Head Bolts: ASTM F3125, Grade A325, Type 1
- b. Galvanized Nuts: ASTM A563 Hex, Grade DH
- c. Galvanized Washers: ASTM F436

F. Concrete: Class I.

G. Reinforcing Bars or Welded Wire Reinforcement (WWR): Specification Section 415

4. Coatings:

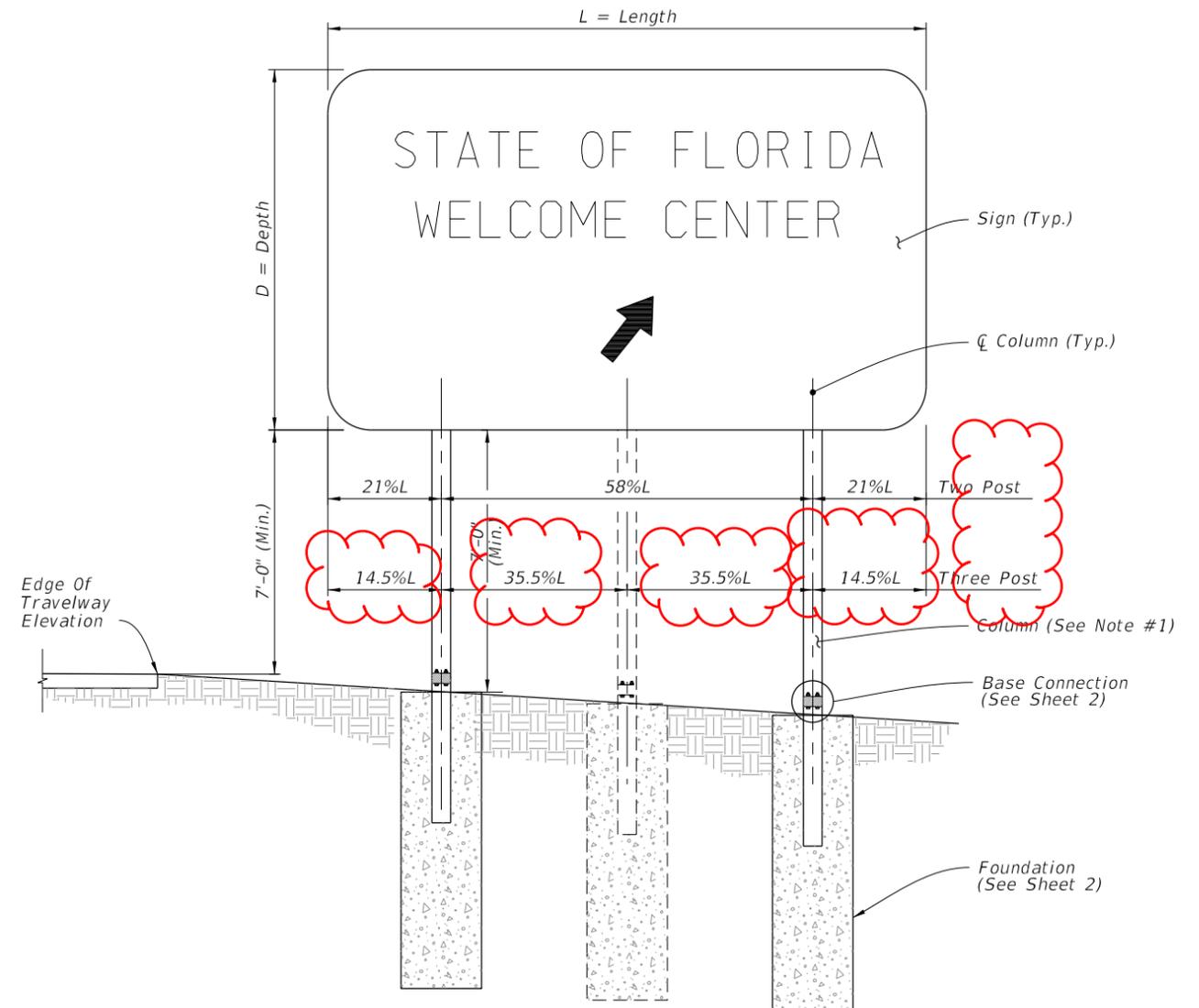
- A. Aluminum Fasteners: Anodic coating (0.0002 inches min.) and chromate sealed
- B. Galvanize High Strength Steel Bolts Nuts and Washers: ASTM F2329
- C. Galvanize all other steel items (excluding stainless steel): Hot-dip ASTM A123
- D. Treat damaged galvanizing in accordance with Specification Section 562

5. Fabrication:

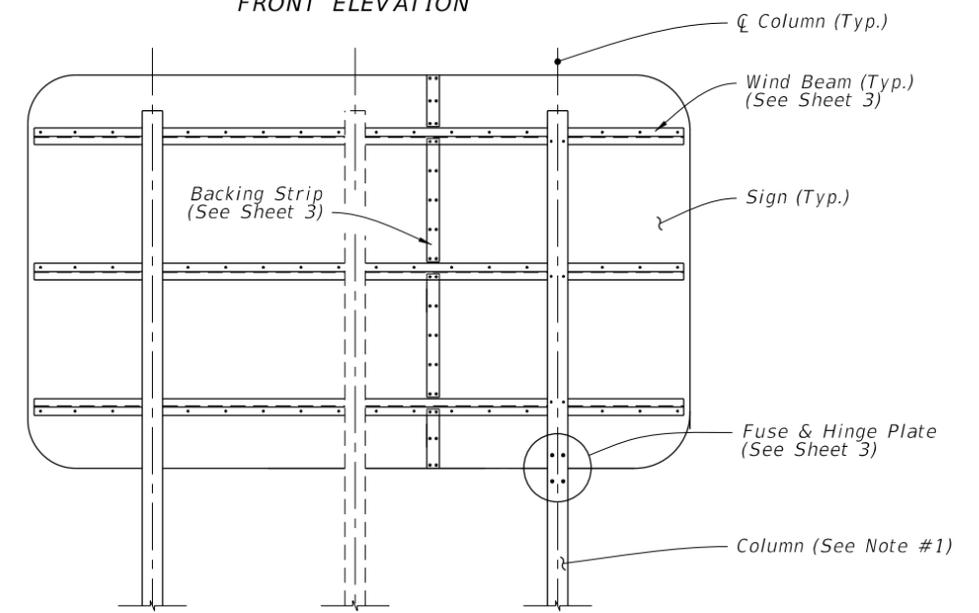
- A. All Base Connections and Stub Column materials are steel unless otherwise specified.
- B. Drill or sub-punch and ream holes in Fuse Plates and Hinge Plates
- C. Weld Base Plate to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub (Sheet 2)
- D. Hot dip galvanize after fabrication; Remove all drips, runs or beads on base plate within washer contact areas (Including saw cuts)

6. Construction:

- A. Install the Sign Structure foundation in accordance with Specification Section 455. Orient Stub Post according to direction of traffic (Sheet 2)
- B. Tighten all high strength bolts except Base Bolts in accordance with Specification Section 700.
- C. Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details, Sheet 2). Tighten Base Bolts in accordance with Instructions Notes on Sheet 2.



FRONT ELEVATION



BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

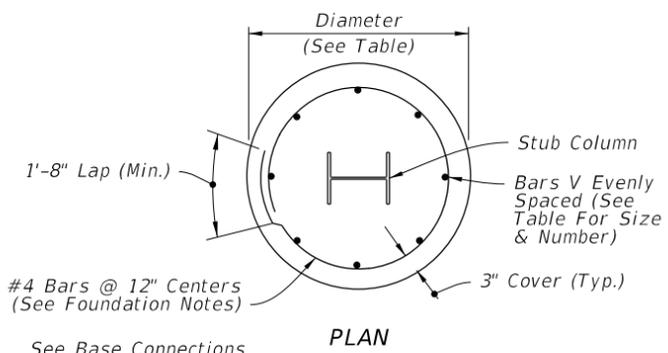
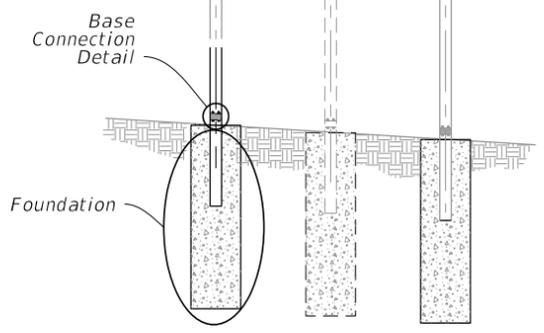
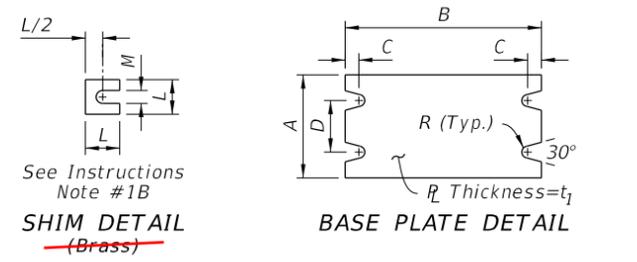
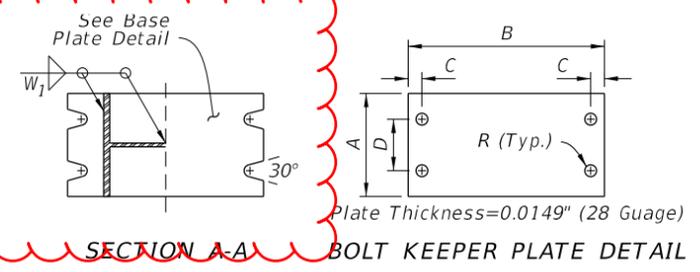
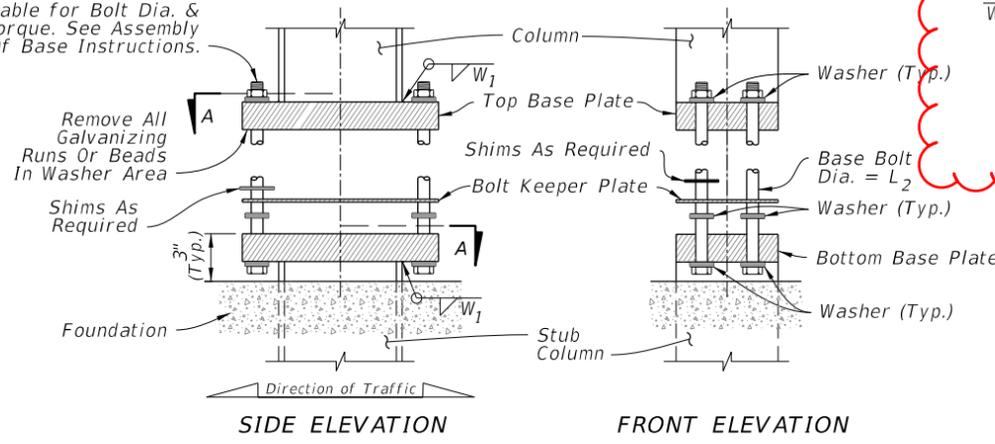
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LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2018-19 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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STATE OF FLORIDA  
WELCOME CENTER

FOUNDATION DATA				
Post & Stub Section*	Dia.	Depth	Stub Column Length	Reinf. Bars V
S 3x5.7	2'-0"	4'-0"	3'-0"	10-#6
W 6x12	2'-0"	6'-0"	3'-0"	10-#6
W 8x18	2'-4"	7'-6"	4'-0"	8-#8
W 8x24	2'-4"	8'-6"	4'-0"	8-#8
W 10x33	2'-4"	10'-3"	4'-0"	8-#8
W 12x45	2'-8"	11'-3"	5'-0"	10-#8

H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



Post & Stub Section*	BASE CONNECTION DATA								SHIM		
	A	B	C	D	R	t <sub>1</sub>	L <sub>2</sub>	W <sub>1</sub>	Torque (lbf*in)	L	M
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	1-1/4"	9/16"
W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	1-3/8"	11/16"
W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	1-3/4"	13/16"
W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	2-1/8"	13/16"
W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	2-3/8"	1-1/16"
W 12x45	10"	18"	1-1/4"	6"	9/16"	2"	1"	1/2"	580 ± 90	2-3/4"	1-1/16"

\* Designations: (Normal Depth in inches) x (weight in pounds per linear foot).

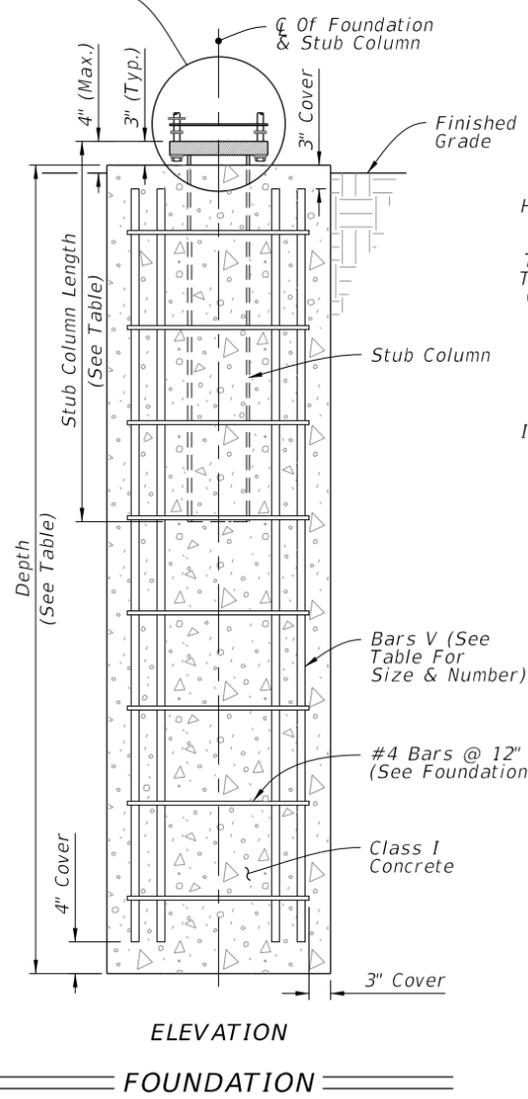
**MULTI-COLUMN SIGN ASSEMBLY**

**FOUNDATION NOTES:**

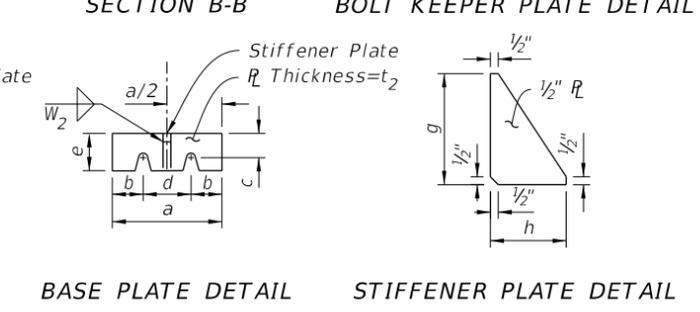
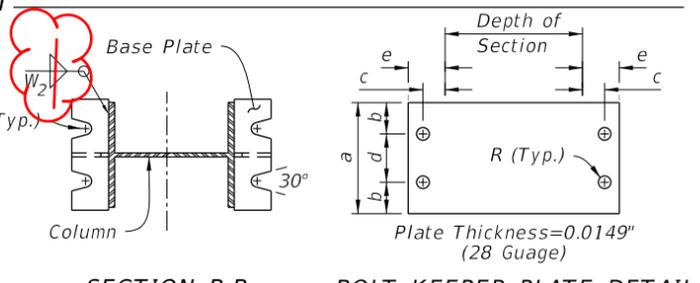
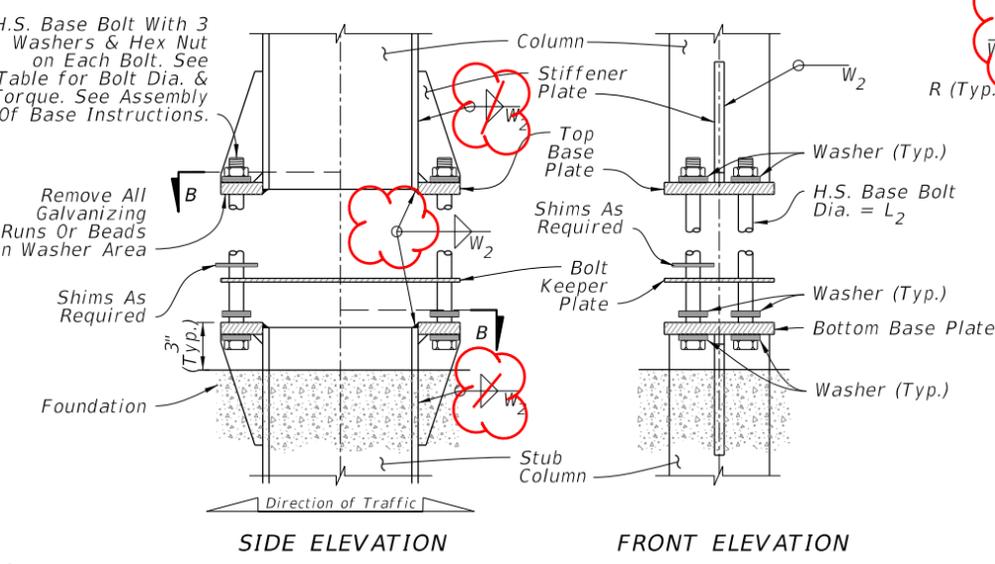
The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.  
At the Contractors option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification Section 415.

**INSTRUCTIONS NOTES:**

- Assembly of Base Instructions:
  - Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
  - Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) brass shims per column.
- H.S. Base Bolt L<sub>2</sub> Tightening Instructions:
  - Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
  - Loosen each Base Bolt one turn.
  - Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
  - Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.



H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.

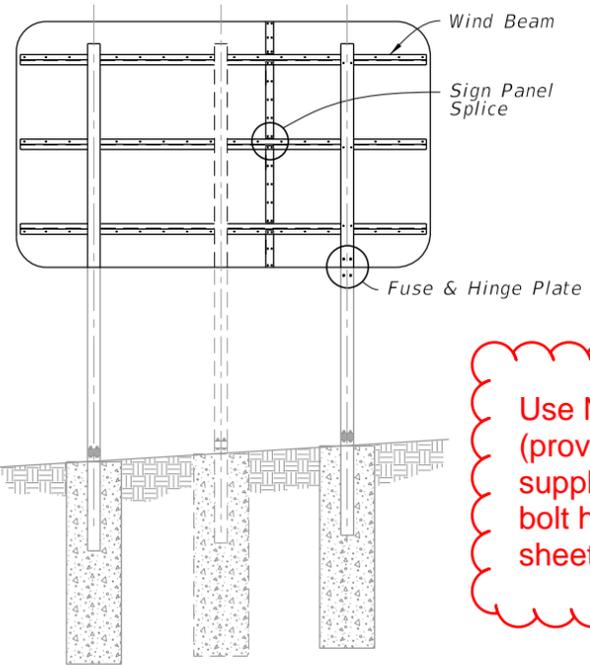


Section*	ALTERNATIVE BASE CONNECTION DATA											
	a	b	c	d	e	t <sub>2</sub>	L <sub>2</sub>	R	Torque (lbf*in)	g	h	W <sub>2</sub>
W 6x12	4-3/4"	1-1/8"	1-3/16"	2-1/2"	2"	1/2"	5/8"	3/8"	270 ± 45	5-1/8"	2"	1/4"
W 8x18	5-3/4"	1-1/2"	1-3/8"	2-3/4"	2-3/16"	5/8"	3/4"	7/16"	445 ± 75	6-1/4"	2-3/16"	1/4"
W 8x24	7"	1-3/4"	1-3/8"	3-1/2"	2-3/8"	3/4"	3/4"	7/16"	445 ± 75	8"	2-3/8"	5/16"
W 10x33	8"	2"	1-9/16"	4"	2-3/4"	3/4"	1"	9/16"	580 ± 90	8"	2-3/4"	5/16"
W 12x45	8"	2"	1-9/16"	4"	3"	3/4"	1"	9/16"	580 ± 90	8"	3"	5/16"

\* Designations: (Normal Depth in inches) x (weight in pounds per linear foot).

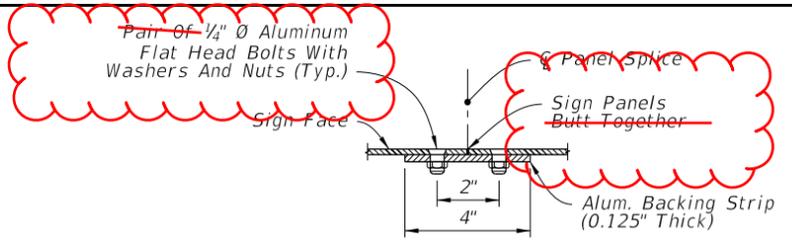
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**FOUNDATION AND BASE CONNECTION DETAILS**

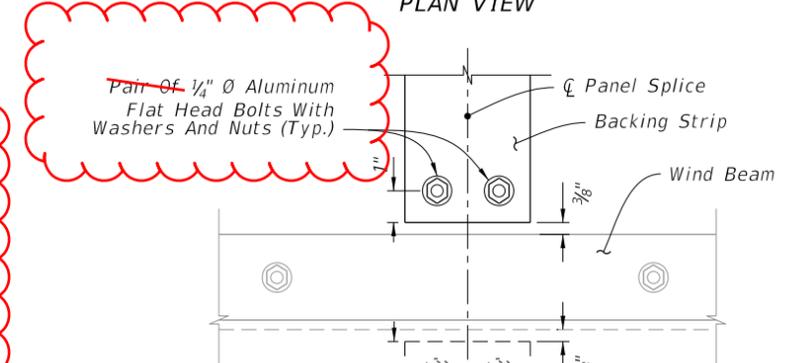


BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY



PLAN VIEW



ELEVATION

SIGN PANEL SPLICE

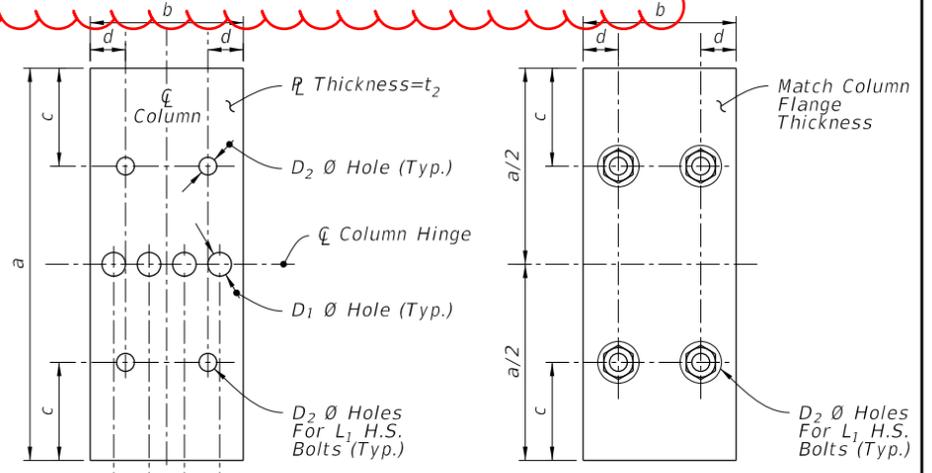
Use Nylon washers (provided by sheeting supplier) under the button bolt head to protect sheeting.

Pair of 1/4" Ø Aluminum Flat Head Bolts With Washers And Nuts (Typ.)

Pair of 1/4" Ø Aluminum Flat Head Bolts With Washers And Nuts (Typ.)

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"

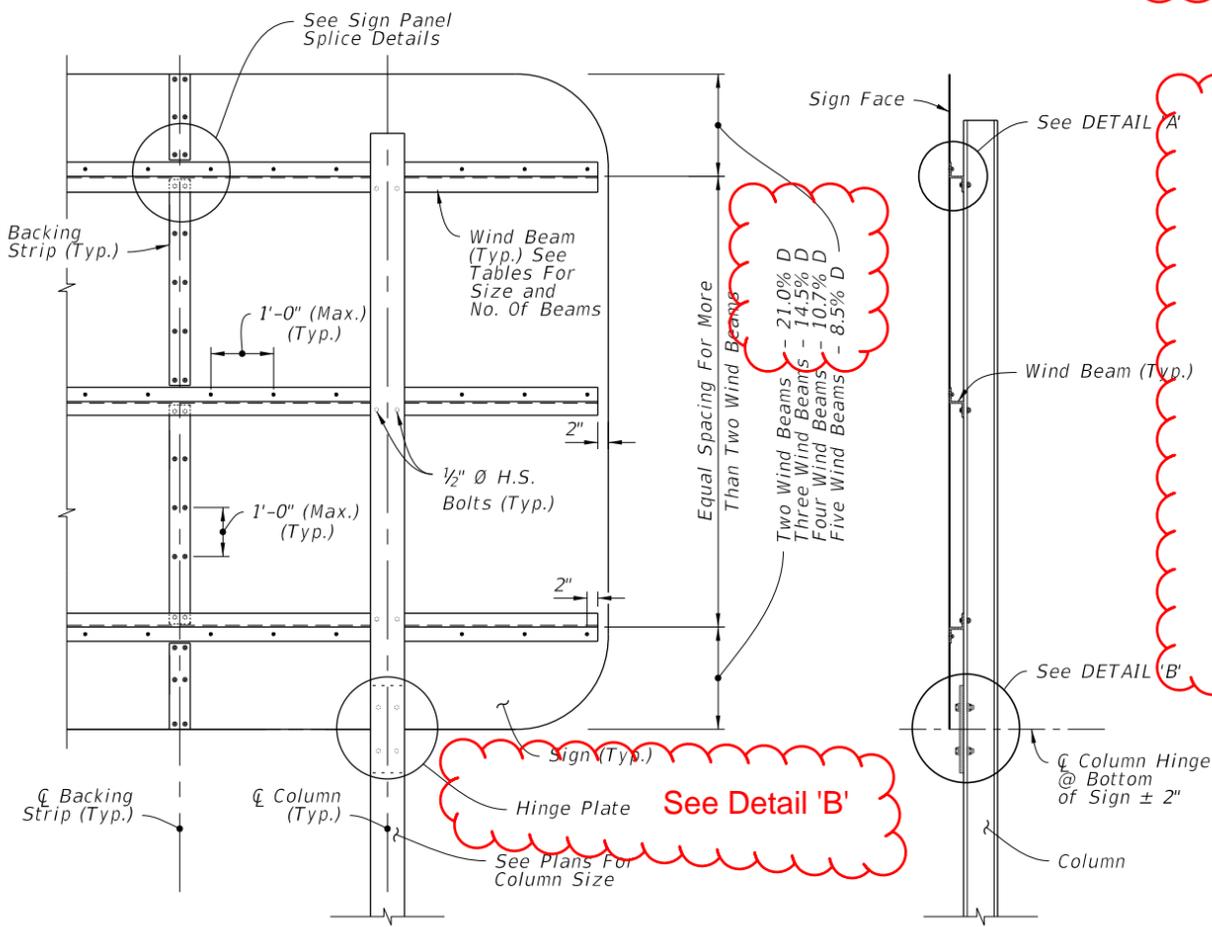
\* Designations: Normal Depth in inches.



FUSE PLATE

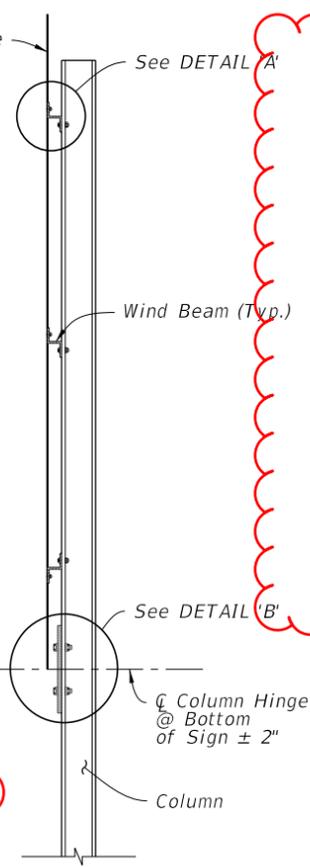
HINGE PLATE

FUSE & HINGE PLATE



BACK ELEVATION

MULTI-COLUMN SIGN BACK PANEL



SIDE ELEVATION

NUMBER OF WIND BEAMS FOR GIVEN DEPTH	
No. Beams	Max. Depth
2	7'-0"
3	12'-0"
4	16'-4"
5	20'-8"

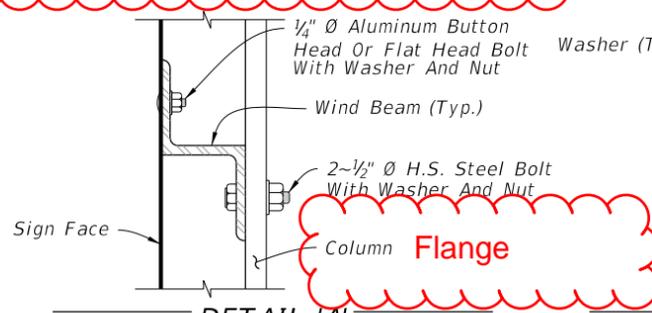
  

Size Of Zee**	Length Of Sign (Feet)	
	2 Posts	3 Posts
Zee 1 3/4" x 1 3/4" x 1.09	0 to 11'-0"	0 to 17'-4"
Zee 3 x 2 1/16" x 2.33	11'-1" to 19'-0"	17'-5" to 29'-6"
Zee 3 x 2 1/16" x 3.38	19'-1" to 31'-0"	29'-7" to 40'-0"

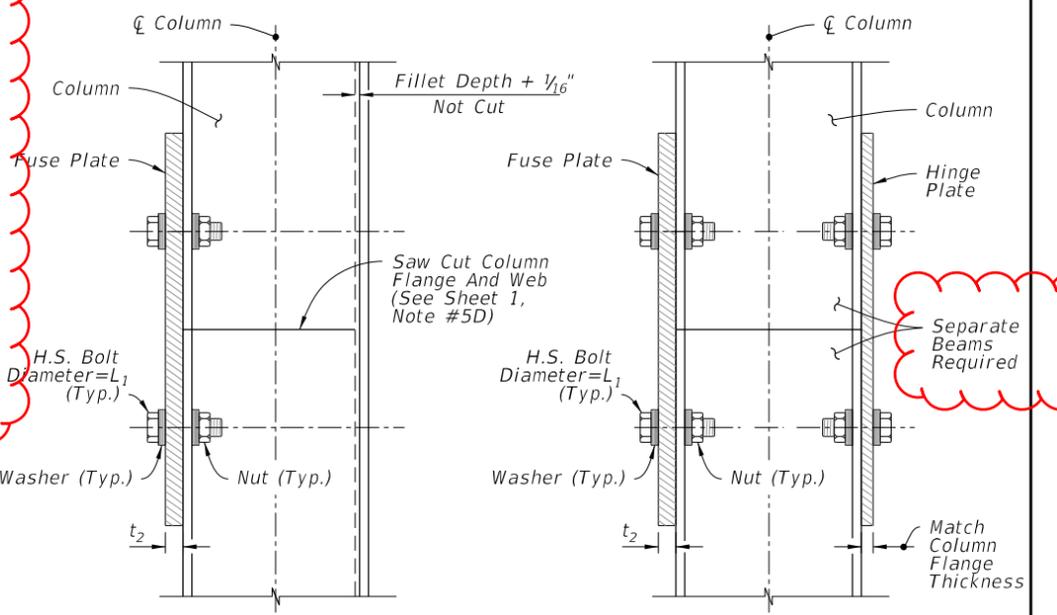
\*\* Zee Beams are aluminum. No steel equivalent available. Designation gives (Member Depth) x (Flange Width) x (lb/ft)

Equal Spacing For More Than Two Wind Beams  
 Two Wind Beams - 21.0% D  
 Three Wind Beams - 14.5% D  
 Four Wind Beams - 10.7% D  
 Five Wind Beams - 8.5% D

See Detail 'B'



DETAIL 'A'



SIDE ELEVATION TYPICAL HINGE

SIDE ELEVATION OPTIONAL HINGE

(See Fabrication Notes on Sheet 1)

DETAIL 'B'

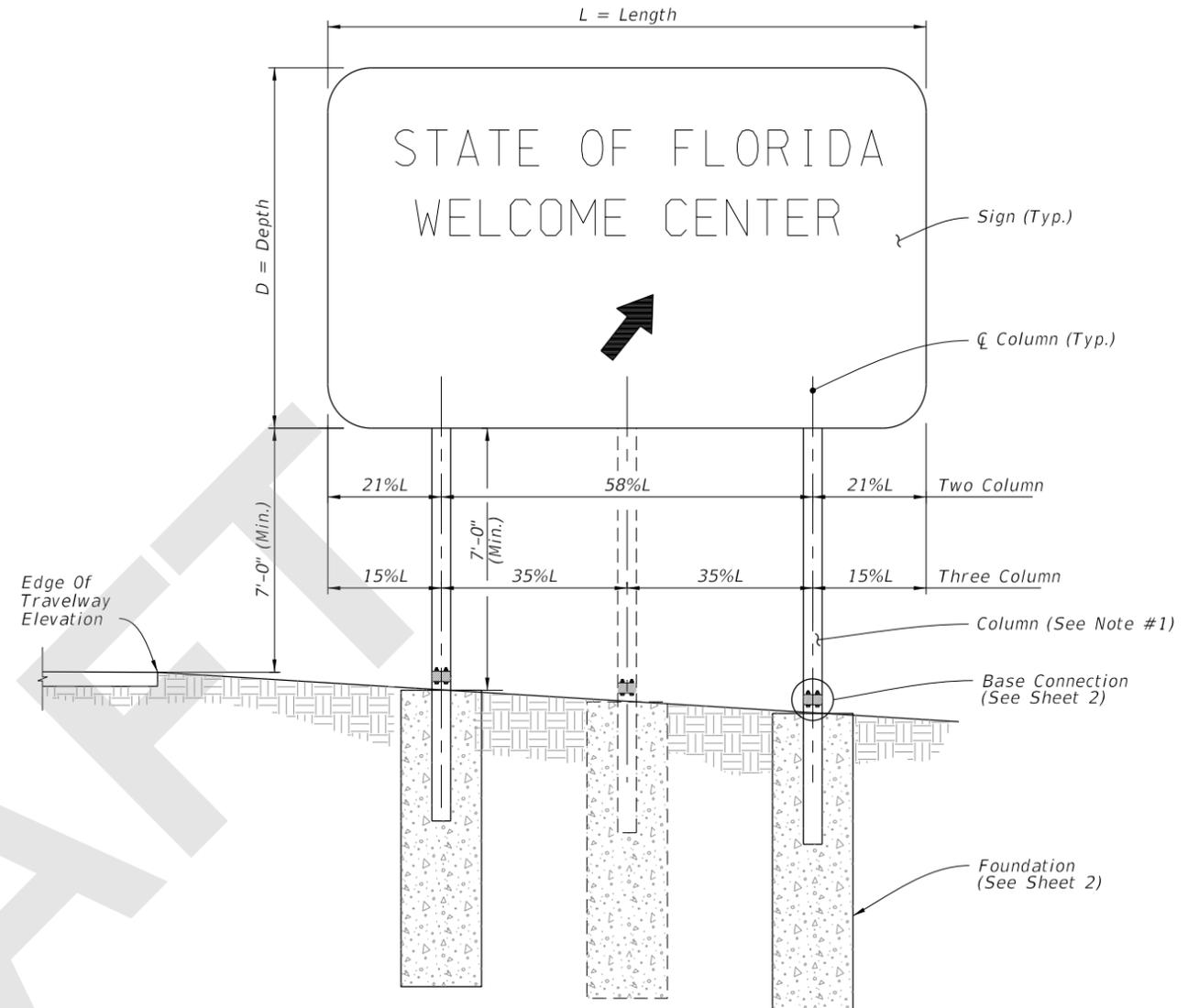
WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

LAST REVISION	DESCRIPTION:
11/01/17	

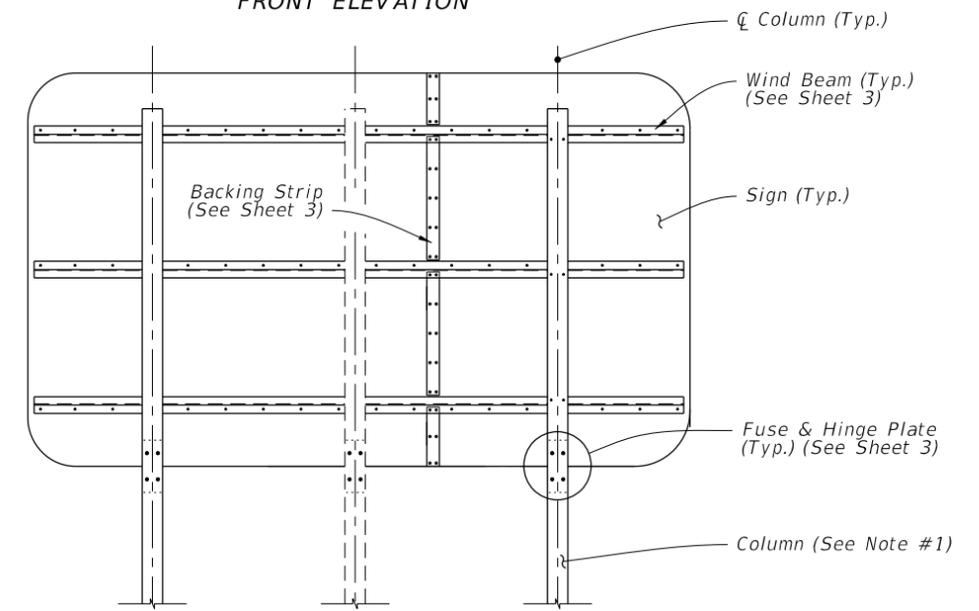
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**GENERAL NOTES:**

1. Verify Column lengths in the field prior to fabrication.
2. 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.
3. Materials:
  - A. Sign Panel Mounting Materials:
    - a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
    - b. Aluminum Structural Shapes: ASTM B308, Alloy 6061-T6
  - B. Sign Support Structure Materials:
    - a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
    - b. Steel Weld Metal: E70XX
    - c. Shims: Brass ASTM B36 or Galvanized Steel
  - C. Aluminum Bolts, Nuts and Washers:
    - a. Flat Head and Button Head Bolts: ASTM F 468, Alloy 2024-T4
    - b. Hex Nuts: ASTM F467, 2024-T4
    - c. Washers: ASTM B221, Alloy 2024-T4
  - D. Stainless Steel Bolts, Nuts and Washers Alloy Group 2, Condition A, may be substituted for the Aluminum bolts as follows:
    - a. Bolts: ASTM F593, CW1 or SH1
    - b. Nuts: ASTM F594,
  - E. High Strength (H.S.) Steel Bolts, Nuts and Washers:
    - a. Galvanized Hex Head Bolts: ASTM F3125, Grade A325, Type 1
    - b. Galvanized Nuts: ASTM A563 Hex, Grade DH
    - c. Galvanized Washers: ASTM F436
  - F. Concrete: Class I.
  - G. Reinforcing Bars or Welded Wire Reinforcement (WWR): Specification 415
4. Coatings:
  - A. Aluminum Fasteners: Anodic coating (0.0002 inches min.) and chromate sealed
  - B. Galvanize High Strength Steel Bolts Nuts and Washers: ASTM F2329
  - C. Galvanize all other steel items (excluding stainless steel); Hot-dip ASTM A123
  - D. Treat damaged galvanizing in accordance with Specification 562
5. Fabrication:
  - A. All Base Connections and Stub Column materials are steel unless otherwise specified.
  - B. Drill or sub-punch and ream holes in Fuse Plates and Hinge Plates
  - C. Weld Base Plate to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub (Sheet 2)
  - D. Hot dip galvanize after fabrication; Remove all drips, runs or beads on base plate within washer contact areas (Including saw cuts)
6. Construction:
  - A. Install the Sign Structure foundation in accordance with Specification 455. Orient Stub Post according to direction of traffic (Sheet 2)
  - B. Tighten all high strength bolts except Base Bolts in accordance with Specification 700.
  - C. Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details, Sheet 2). Tighten Base Bolts in accordance with Instructions Notes on Sheet 2.



FRONT ELEVATION



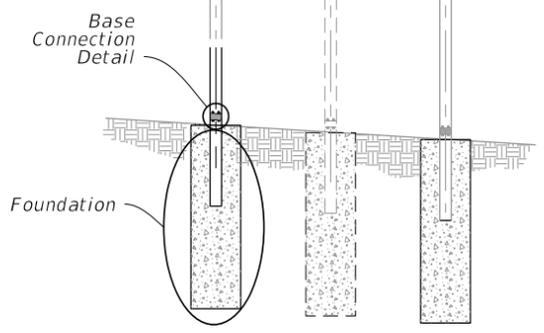
BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

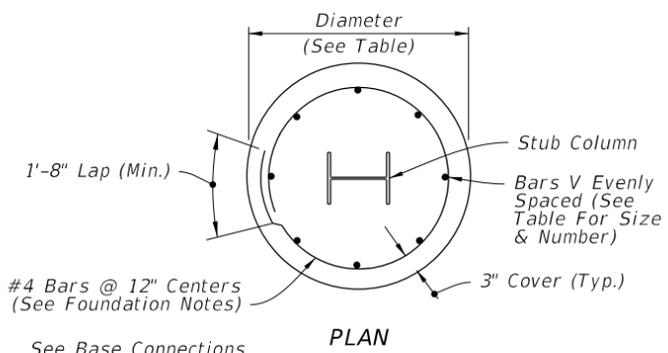
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LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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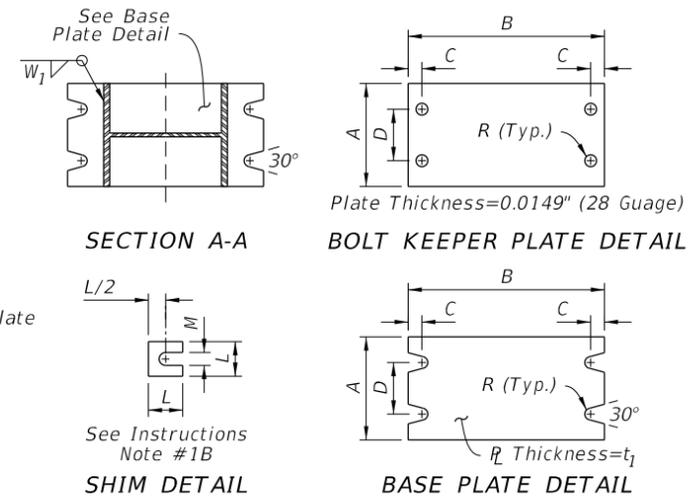
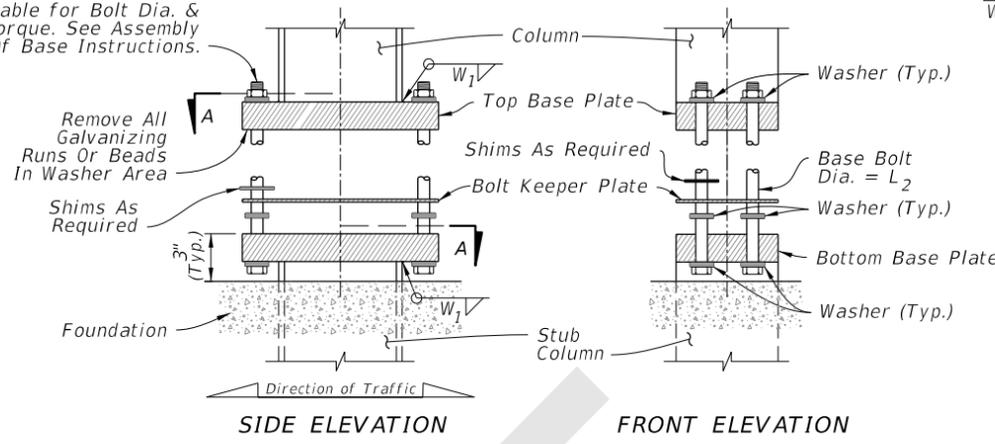
STATE OF FLORIDA  
WELCOME CENTER



FOUNDATION DATA				
Steel Post & Stub Section*	Dia.	Depth	Stub Column Length	Reinf. Bars V
S 3x5.7	2'-0"	4'-0"	3'-0"	10-#6
W 6x12	2'-0"	6'-0"	3'-0"	10-#6
W 8x18	2'-4"	7'-6"	4'-0"	8-#8
W 8x24	2'-4"	8'-6"	4'-0"	8-#8
W 10x33	2'-4"	10'-3"	4'-0"	8-#8
W 12x45	2'-8"	11'-3"	5'-0"	10-#8



H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



Steel Post & Stub Section*	BASE CONNECTION DATA								SHIM		
	A	B	C	D	R	t <sub>1</sub>	L <sub>2</sub>	W <sub>1</sub>	Torque (lbf*in)	L	M
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	1-1/4"	9/16"
W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	1-3/8"	11/16"
W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	1-3/4"	13/16"
W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	2-1/8"	13/16"
W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	2-3/8"	1-1/16"
W 12x45	10"	18"	1-1/4"	6"	9/16"	2"	1"	1/2"	580 ± 90	2-3/4"	1-1/16"

\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

**MULTI-COLUMN SIGN ASSEMBLY**

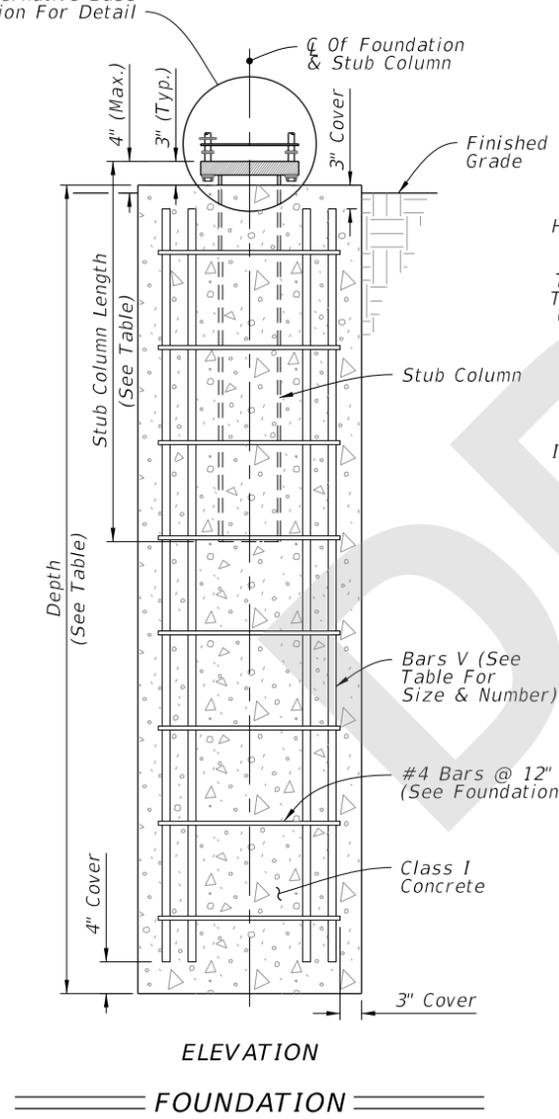
**FOUNDATION NOTES:**

The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.

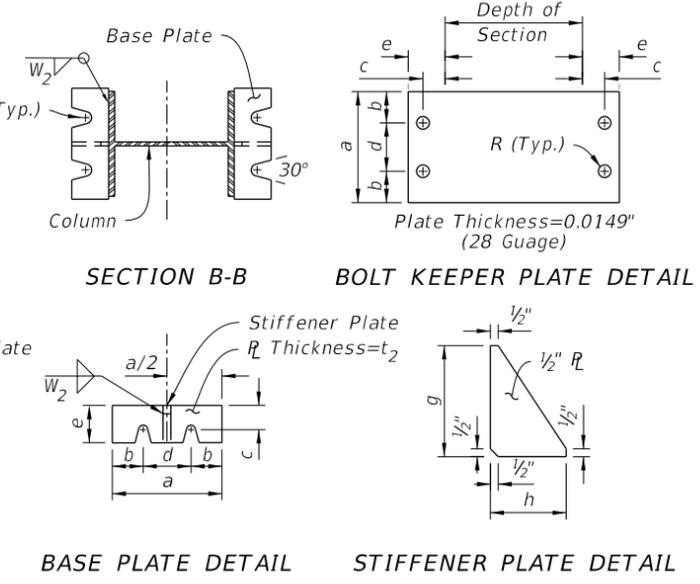
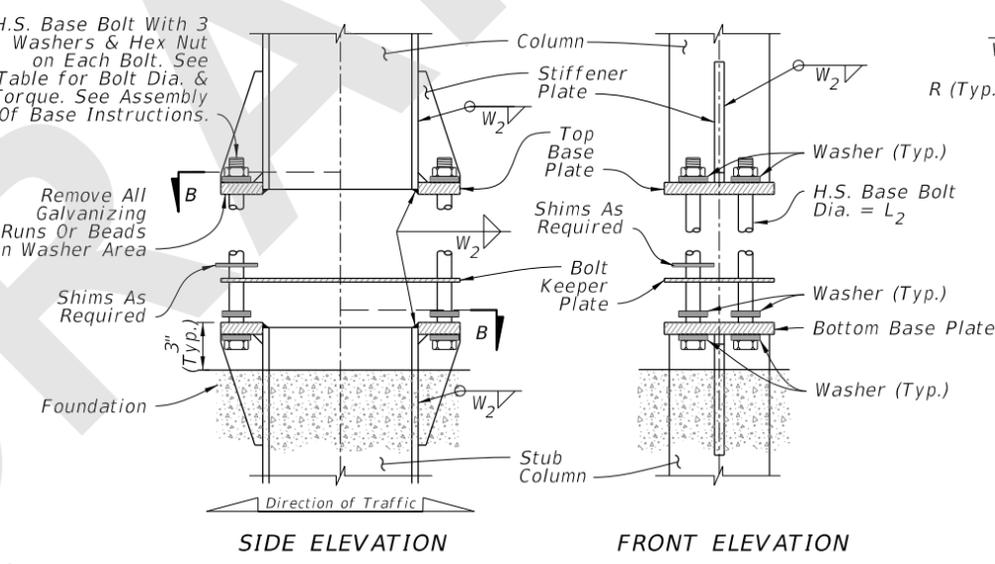
At the Contractors option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification 415.

**INSTRUCTIONS NOTES:**

- Assembly of Base Instructions:
  - Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
  - Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) shims per column.
- H.S. Base Bolt L<sub>2</sub> Tightening Instructions:
  - Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
  - Loosen each Base Bolt one turn.
  - Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
  - Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.



H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



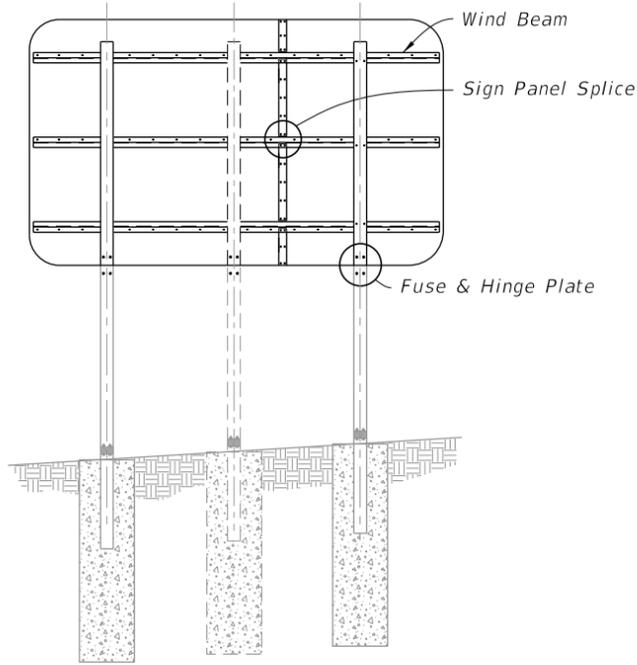
Steel Section*	ALTERNATIVE BASE CONNECTION DATA											
	a	b	c	d	e	t <sub>2</sub>	L <sub>2</sub>	R	Torque (lbf*in)	g	h	W <sub>2</sub>
W 6x12	4-3/4"	1-1/8"	1-3/16"	2-1/2"	2"	1/2"	5/8"	3/8"	270 ± 45	5-1/8"	2"	1/4"
W 8x18	5-3/4"	1-1/2"	1-3/8"	2-3/4"	2-3/16"	5/8"	3/4"	7/16"	445 ± 75	6-1/4"	2-3/16"	1/4"
W 8x24	7"	1-3/4"	1-3/8"	3-1/2"	2-3/8"	3/4"	3/4"	7/16"	445 ± 75	8"	2-3/8"	5/16"
W 10x33	8"	2"	1-9/16"	4"	2-3/4"	3/4"	1"	9/16"	580 ± 90	8"	2-3/4"	5/16"
W 12x45	8"	2"	1-9/16"	4"	3"	3/4"	1"	9/16"	580 ± 90	8"	3"	5/16"

\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

**FOUNDATION AND BASE CONNECTION DETAILS**

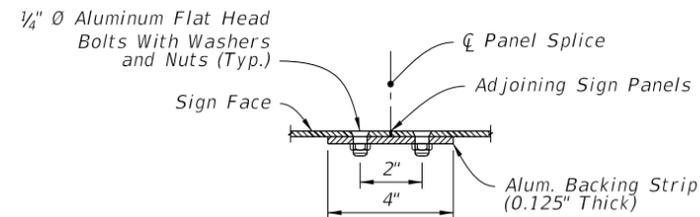
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LAST REVISION 11/01/18	DESCRIPTION:	FDOT	FY 2019-20 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 2 of 3
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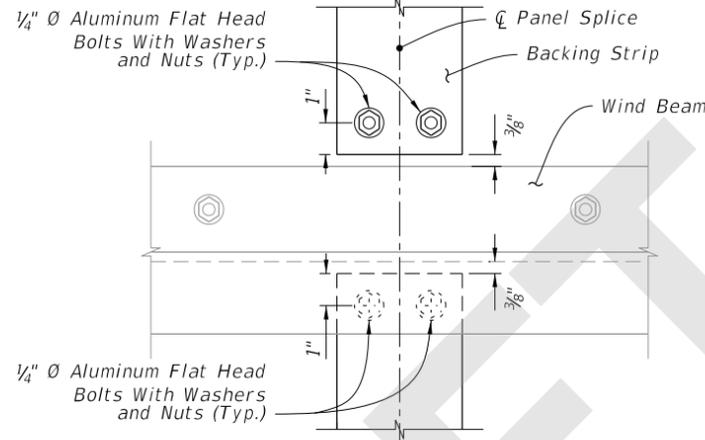


BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY



PLAN VIEW

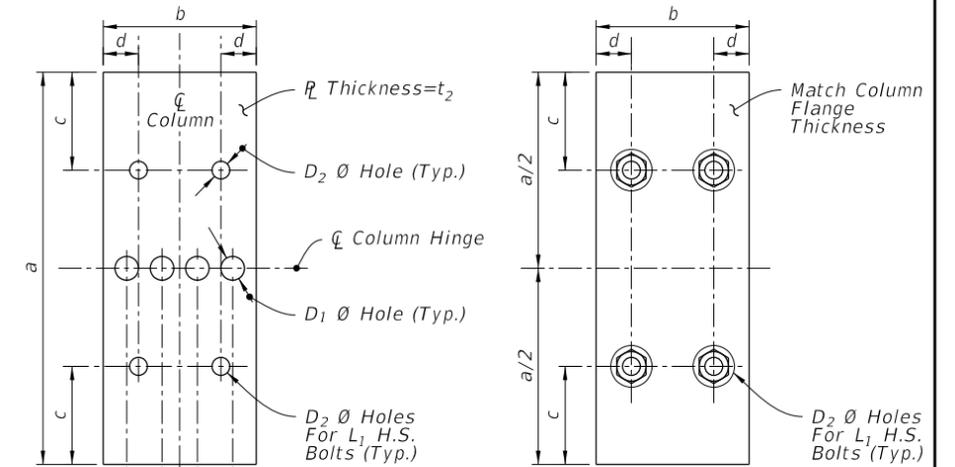


ELEVATION

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"

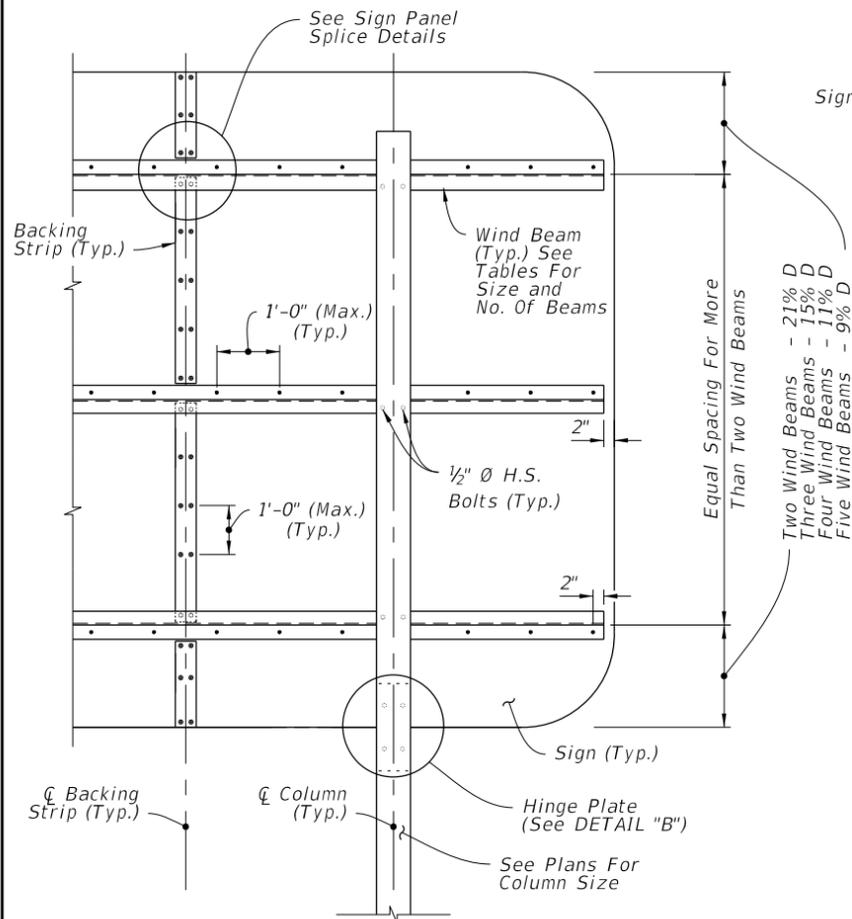
\* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



FUSE PLATE

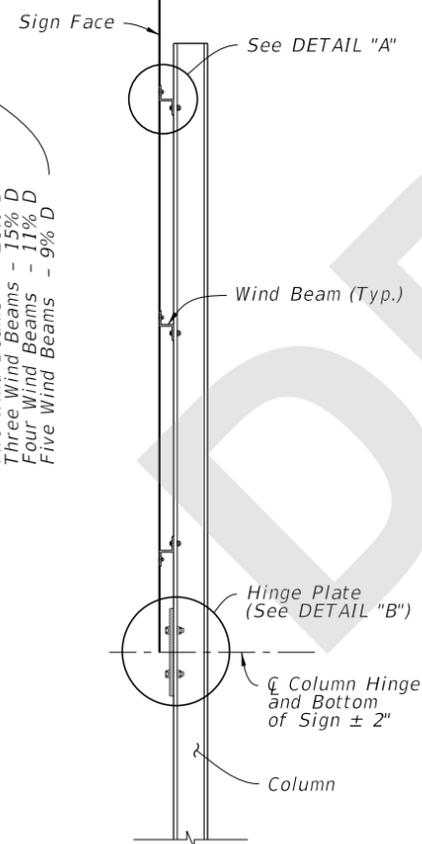
HINGE PLATE

FUSE & HINGE PLATE



BACK ELEVATION

MULTI-COLUMN SIGN BACK PANEL

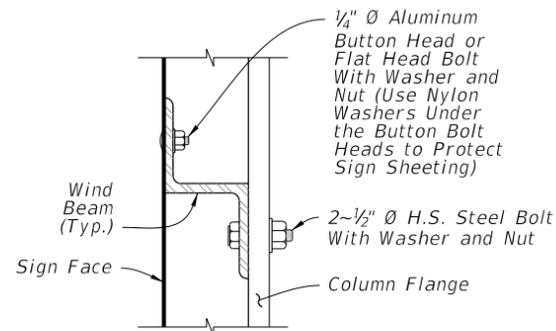


SIDE ELEVATION

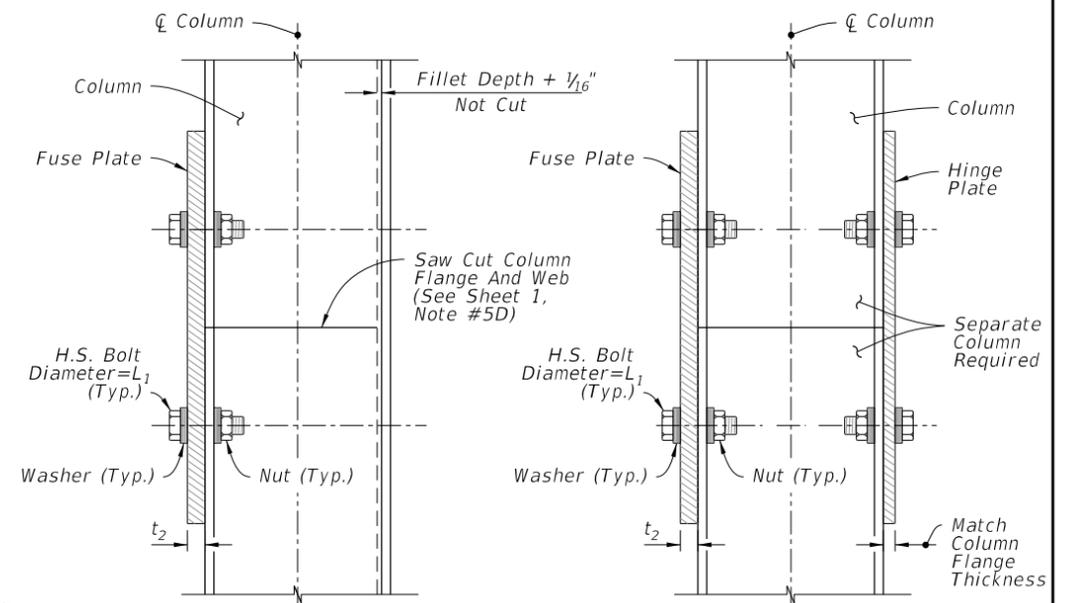
NUMBER OF WIND BEAMS BASED ON SIGN DEPTH (D)			
2 Beams	3 Beams	4 Beams	5 Beams
D ≤ 8'	8' < D ≤ 12'	12' < D ≤ 16'	16' < D ≤ 20'

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"



Side Elevation

TYPICAL HINGE

Side Elevation

OPTIONAL HINGE

(See Fabrication Notes on Sheet 1)

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

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LAST REVISION	DESCRIPTION:
11/01/18	



FY 2019-20  
STANDARD PLANS

MULTI-COLUMN GROUND SIGN

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