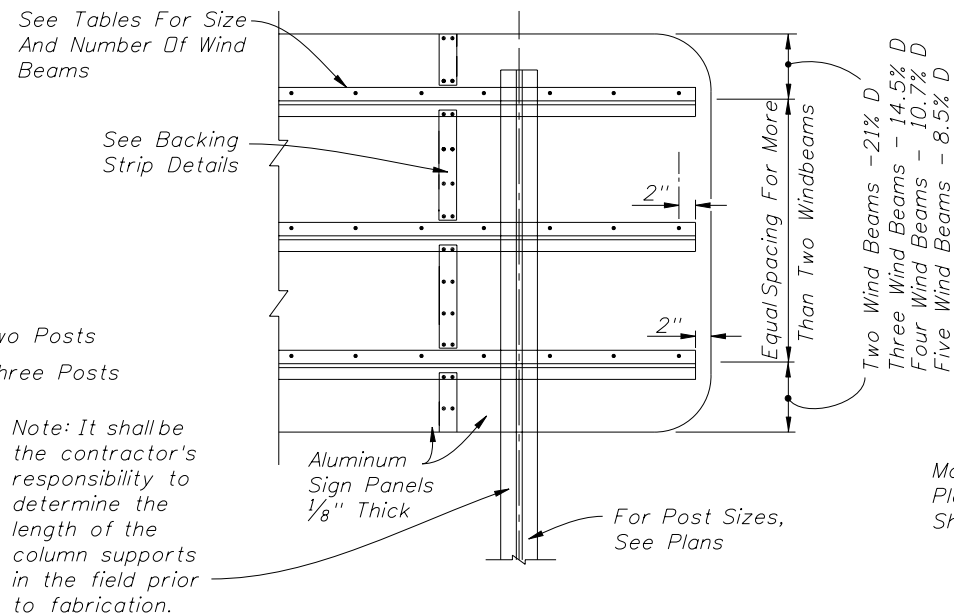
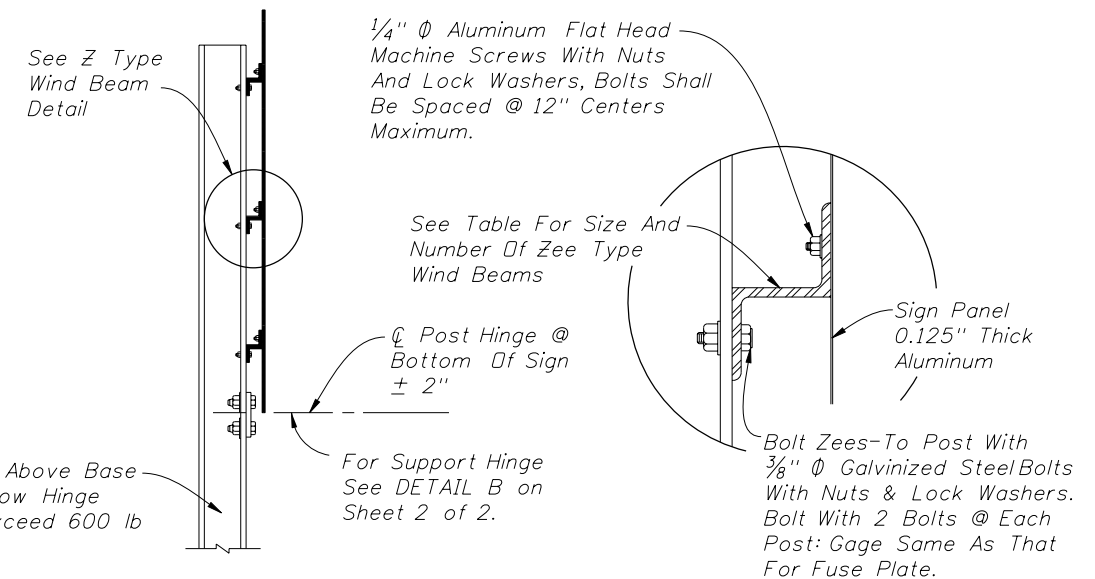


TYPICAL ELEVATION

(For Notes And Dimensions Not Shown, See Plans)



PARTIAL REAR ELEVATION

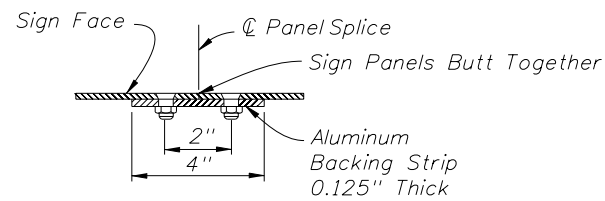


SIDE VIEW

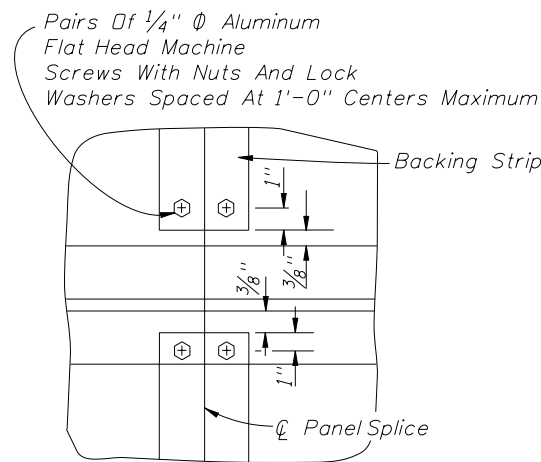
Z TYPE WIND BEAM

GENERAL NOTES

Note: If the sign panels are deeper than 10', a Horizontal Panel Splice is allowed at an interior Z bar support, shop drawings shall be required. Minimum panel section width = 2'-6".



BACKING STRIP DETAILS



DESIGN SPECIFICATIONS: Design according to FDOT Structures Manual (current edition).
 WELDING: For welding refer to the latest editions of the AWS Structural Welding Codes for Steel and Aluminum, the AASHTO Standard Specifications for Welding Structural Steel Highway Bridges.
 ALUMINUM MATERIALS: All aluminum materials shall meet the requirements of the Aluminum Association's Alloy 6061-T6 and also the following ASTM specifications: Sheets and plates, B209; extruded tube, bars, rods & shapes, B221; and standard structural shapes, B308. No stenciling permitted on sheets. Aluminum welding rods shall meet the requirements of Aluminum Association Alloy No. 5556 filler wire.
 ALTERNATE MATERIAL: Material meeting the requirements of ASTM B209 or Aluminum Association Alloys 5154-H38 or 5052-H38 may be used for sheet and plate. Material meeting the requirements of Aluminum Association Alloy 6351-T5 and ASTM B221 may be used for extruded bars, rods, shapes and tubes.
 SIGN FACE: All sign face corners shall be rounded.
 STRUCTURAL STEEL: All structural steel shall meet the requirements of ASTM A36.
 ALUMINUM BOLTS, NUTS, & LOCK WASHERS: Aluminum bolts shall meet the requirements of Aluminum Association Alloy 2024-T4 (ASTM F468). The bolts shall have an anodic coating of at least 0.0002" thick and be Chromate sealed. Lock washers shall meet the requirements of Aluminum Association Alloy 7075-T6 (ASTM B221). Nuts shall meet the requirements of Aluminum Association Alloy 6061-T6 or 6262-T9 (ASTM F467).
 STEEL BOLTS, NUTS, & WASHERS: All steel bolts, nuts and washers shall meet the requirements of ASTM A325.
 TOLERANCES: All above materials shall be in accordance with the governing ASTM specifications.
 GALVANIZED: All steel shapes, angles, tees, plates, bolts, nuts and washers shall be galvanized in accordance with ASTM F2329.
 BASE CONNECTION: High strength bolts L₂ in the base connection shall be tightened only to the torque shown in the table on sheet 2 of 2. Overtightened base connections will not be accepted.
 FUSE PLATE: All holes in fuse plates shall be drilled. All plate cuts shall, preferably, be saw cuts; however, flame cutting will be permitted provided all edges are round. Metal projecting beyond the plane of the plate face will not be allowed.
 BRASS SHIM: Provide shim plate per ASTM B36.
 SHOP DRAWINGS: When ground sign supports are fabricated in accordance with these plans no shop drawings are required. Shop drawings will be required for approval when the column length exceeds the length shown in the plans by more than 2'-0". However, shop drawings for sign panels, messages, lettering and quantities shall be submitted to the Engineer of Record for approval.
 FABRICATOR NOTE: All bolts, except L₂ bolts and zee to post bolts, shall be tightened in accordance with Section 700 of the Specifications.
 FOUNDATION: Contractor may use precast foundations in pre-drilled holes a minimum of 12" larger than the foundation indicated on the plans in either wet or dry conditions. The holes shall be clean and without loose material. Temporary casing shall be required if the soil is unstable. Fill the void around the precast foundation with flowable fill meeting the requirements of Section 121 or clean sand placed using hydraulic methods. The cost of flowable fill, installing and removal of casing shall be included in the unit price of Sign Multi-Post.

DESIGN WIND SPEEDS BY COUNTY

- 110 mph Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafayette, Lake, Leon, Madison, Marion, Polk, Putnam, Sumter, Suwannee, and Union Counties.
- 130 mph Bay, Brevard, Calhoun, Charlotte, Citrus, DeSoto, Dixie, Duval, Flagler, Franklin, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lee, Levy, Liberty, Manatee, Nassau, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Sarasota, Seminole, St. Johns, Taylor, Volusia, Wakulla, Walton, and Washington Counties.
- 150 mph Broward, Collier, Escambia, Indian River, Martin, Miami-Dade, Monroe, Palm Beach, Santa Rosa, and St. Lucie Counties.

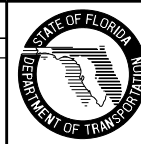
NUMBER OF WIND BEAMS FOR GIVEN DEPTH & WIND					
Wind	No. Beams	Max. Depth	Wind	No. Beams	Max. Depth
110	2	7'-0"	150	2	6'-0"
110	3	12'-0"	150	3	10'-4"
110	4	16'-4"	150	4	14'-0"
110	5	20'-8"	150	5	17'-8"
130	2	6'-8"			
130	3	11'-4"			
130	4	15'-4"			
130	5	19'-0"			

SIZE OF WIND BEAMS		
Size Of Zee*	Length Of Sign (Feet)	
	2 Posts	3 Posts
Z 1.75 x 1.75 x 1.08	0 - 11'-0"	0 - 17'-4"
Z 3 x 2.69 x 2.33	11'-1"-19'-0"	17'-5"-29'-6"
Z 3 x 2.69 x 3.38	19'-1"-20'-8"	29'-7"-31'-6"

*Note: Zees Are Aluminum - No Steel Equivalent Available Designation Gives (Member Depth) x (Flange=Width) x (lb/ft)

REVISIONS

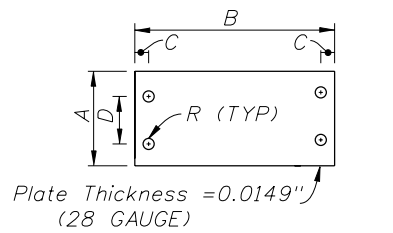
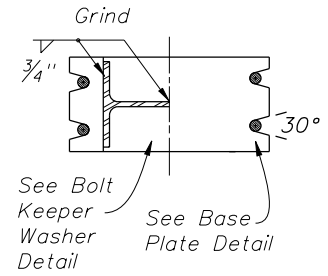
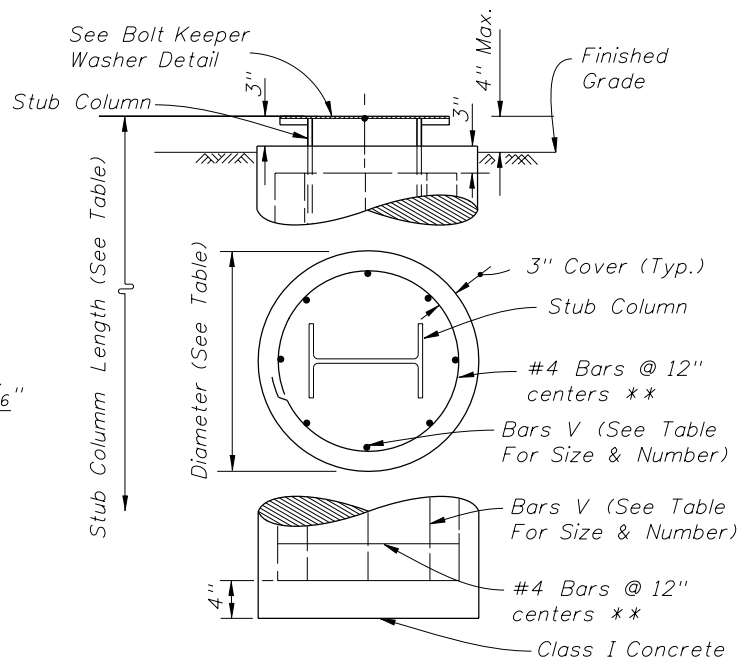
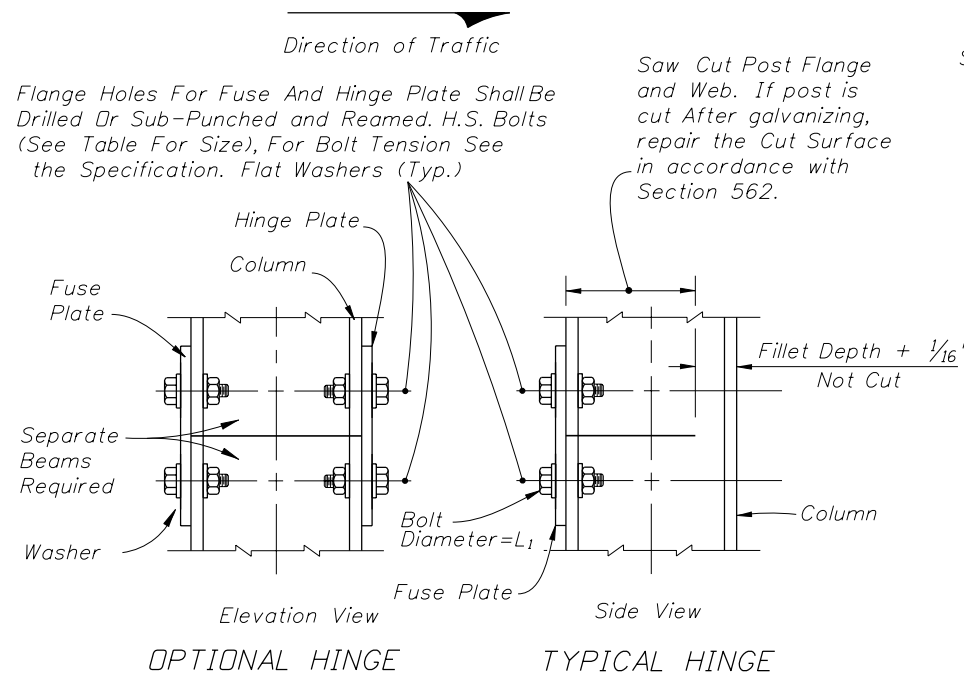
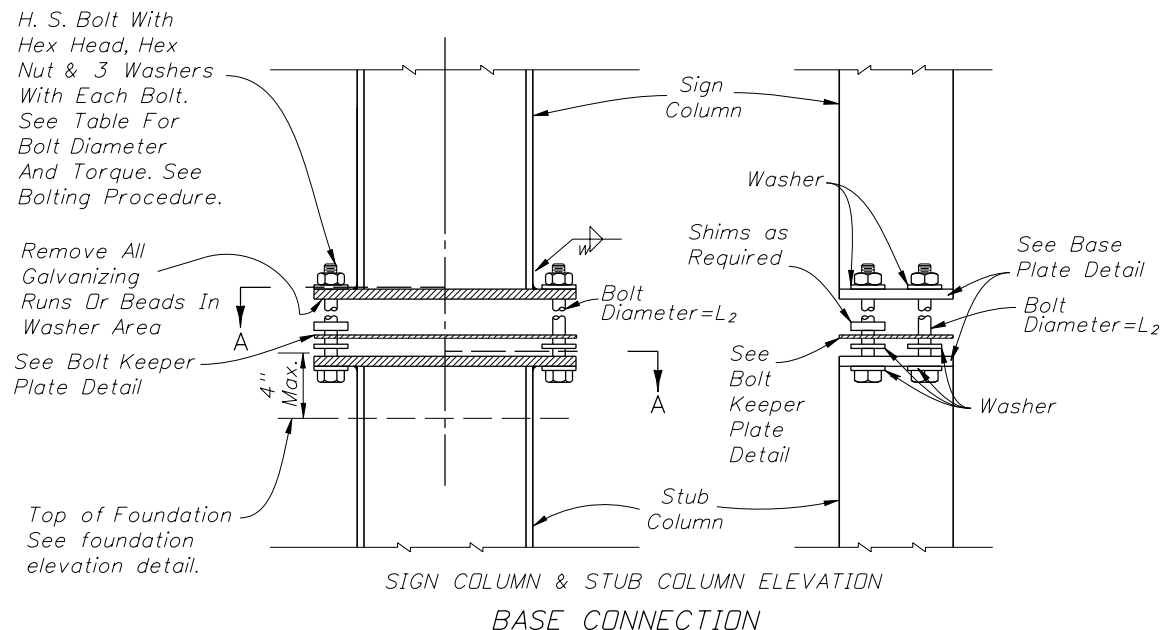
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
07/01/07	L.W.	Delete High Strength Bolt Table A-325. Note revised to 10' instead of 12' in BACKING STRIP DETAIL.	06/03/09	DWY.	Under General Notes - GALVANIZED: Note Changed. Brass Shim note added. Sign Face note moved.
07/01/08	DYW.	Provided Specifications reference for tightening. Changed bolt keeper plate, base connection and shim details. Index Completely revised changed from three sheets to two sheets.			



2008 Interim Design Standard

MULTI-COLUMN GROUND SIGN

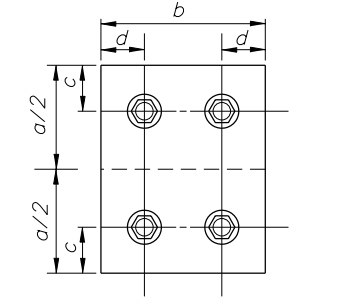
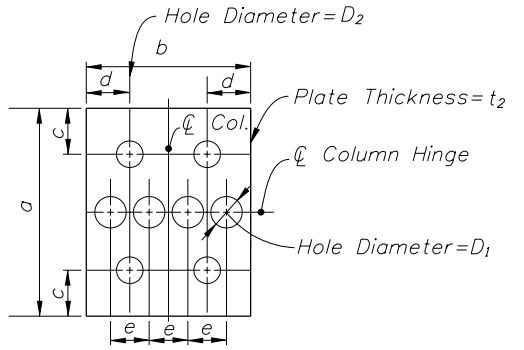
Interim Date	Sheet No.
07/01/09	1 of 2
Index No.	
11200	



SECTION A-A

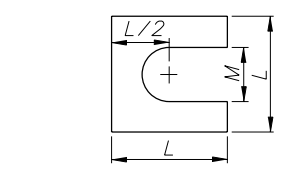
BOLT KEEPER PLATE

FUSE & HINGE PLATES
(See Fabricator Note on Sheet 1 of 2)
DETAIL B



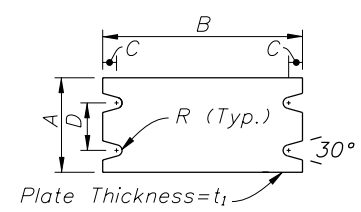
FUSE PLATE

HINGE PLATE



Provide 2 - 0.0149" Thick (28 gauge) and 2 - 0.0329" Thick (21 gauge) Per Post

SHIM DETAIL



BASE PLATE

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

1. Assemble post to stub with bolts and flat washers as shown.
2. Shim as required to plumb post (see shim detail).
3. Tighten all L₂ bolts the maximum possible with 1'-0" to 1'-3" wrench to bed washers and shims and to clean bolt threads. Then loosen each bolt in turn and retighten in a systematic order to the torque specified in the table.
4. Burr threads at junction with nut using a center punch to prevent nut loosening.

* Designations: Normal Depth in inches and weight in pounds per linear foot.

Section*	BASE CONNECTION DATA								FUSE (HINGE) PLATE DATA								SHIM		FOUNDATION DATA				
	A	B	C	D	R	t ₁	L ₂	Torque (lbf*in)	a	b	c	d	e	t ₂	D ₁	D ₂	L ₁	L	M	Dia.	Depth	Stub Length	Reinf. Bars V
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	90±20	14 1/2"	2 3/8"	3 5/8"	7/16"	9/16"	7/16"	7/16"	9/16"	1/2"	1 9/16"	9/16"	2'-0"	5'-6"	3'-3"	10-#6
W 6x12	4"	10"	3/4"	2"	3/8"	1 5/8"	5/8"	270±45	14 1/2"	4"	3 5/8"	7/8"	1 5/16"	7/16"	1 3/16"	1 1/16"	5/8"	1 13/16"	1 1/16"	2'-0"	7'-6"	4'-3"	10-#6
W 8x24	6 1/2"	12 1/2"	7/8"	3 1/4"	7/16"	1 3/4"	3/4"	445±75	16 1/2"	6 1/2"	4 1/8"	1 1/2"	1 1/2"	1"	1 3/16"	3/4"	2 3/16"	1 3/16"	2'-4"	8'-6"	6'-3"	8-#8	
W 10x33	8"	16"	1 1/4"	4 3/4"	9/16"	2"	1"	580±90	18 1/2"	8"	4 5/8"	1 1/4"	1 3/4"	5/8"	1 1/8"	1 1/16"	1"	2 3/8"	1 1/16"	2'-4"	10'-3"	8'-3"	8-#8
W 12x45	10"	18"	1 1/4"	6"	9/16"	2"	1"	580±90	22"	10"	5 1/2"	2 1/4"	2 1/4"	3/4"	1 5/16"	1 1/16"	1"	2 3/4"	1 1/16"	2'-8"	11'-3"	8'-3"	10-#8

STEEL POST, BASE, FOUNDATION & FUSE PLATE DETAILS

REVISIONS			
DATE	BY	DESCRIPTION	DATE
11/27/07	L.W.	Notes added to FOUNDATION DETAIL.	06/09/09
07/01/08	D.Y.W.	Provided Specification reference for bolt tightening. Changed bolt keeper plate, base connection and shims detail. Index Completely revised changed from three sheets to two sheets.	D.Y.W.



2008 Interim Design Standard

MULTI-COLUMN GROUND SIGN

Interim Date: 07/01/09

Sheet No.: 2 of 2

Index No.: 11200