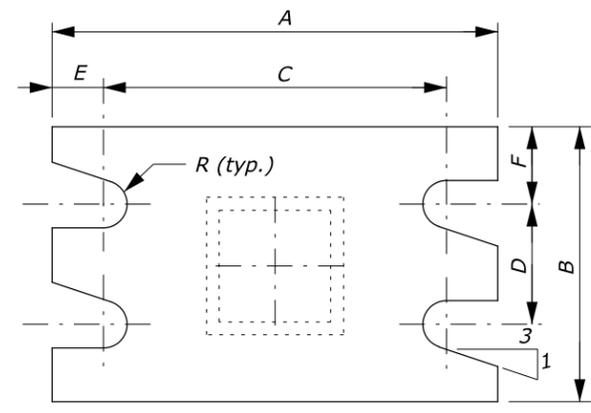


FOOTING DATA TABLE		
POST SIZE	CONCRETE FOOTING	
	DIA.	MINIMUM DEPTH
2" X 2"	12"	3'

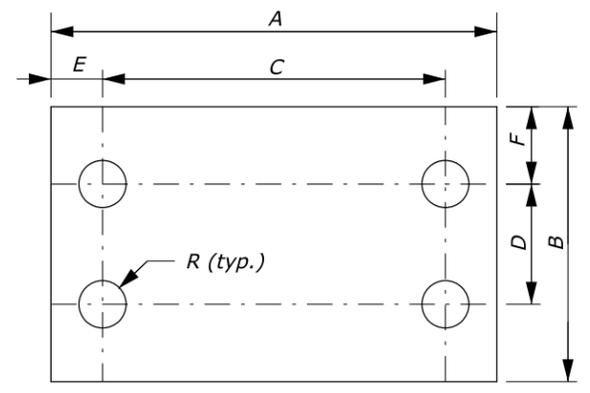
BASE CONNECTION DATA TABLE													
POST SIZE	BOLT SPECIFICATIONS			BOND BREAKING PLATE DATA									
	Dia.	Length	Torque in-lbs	(A)	(B)	(C)	(D)	(E)	(F)	(R)	t ₁	t ₂	w
2" X 2"	5/8"	2 1/2"	450	6 1/2"	4"	5"	1 3/4"	3/4"	1 1/8"	1 1/16"	5/8"	3/16"	3/16"

LEGEND:
 High Strength HS
 Weld triangle 

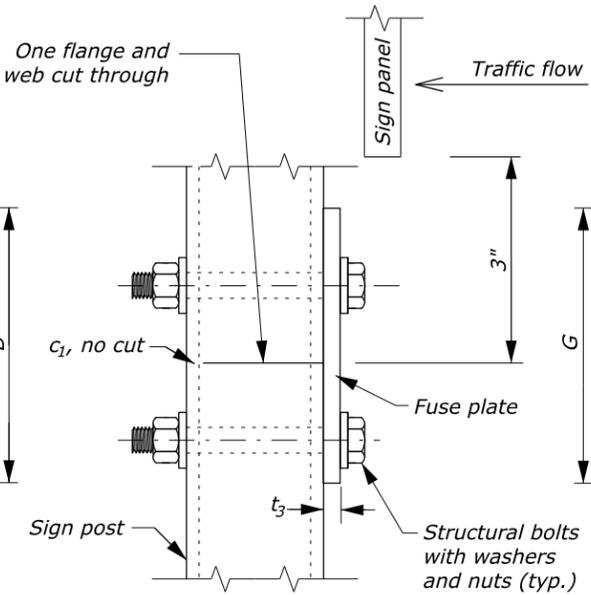
FUSE PLATE DATA TABLE												
POST SIZE	(G)	(H)	(J)	(K)	(L)	(M)	(N)	d ₁	t ₃	c ₁	Bolt dia.	Torque ft-lbs
2" X 2"	4"	2 1/4"	1 1/8"	2"	7/8"	9/16"	5/8"	7/16"	1/4"	1/4"	3/8"	200



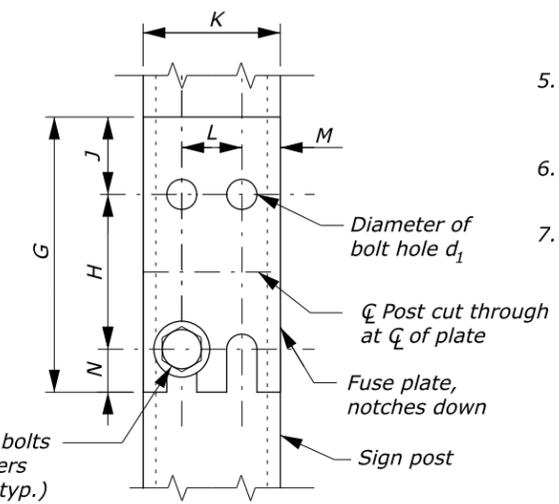
**SECTION A-A
BREAKAWAY PLATE**



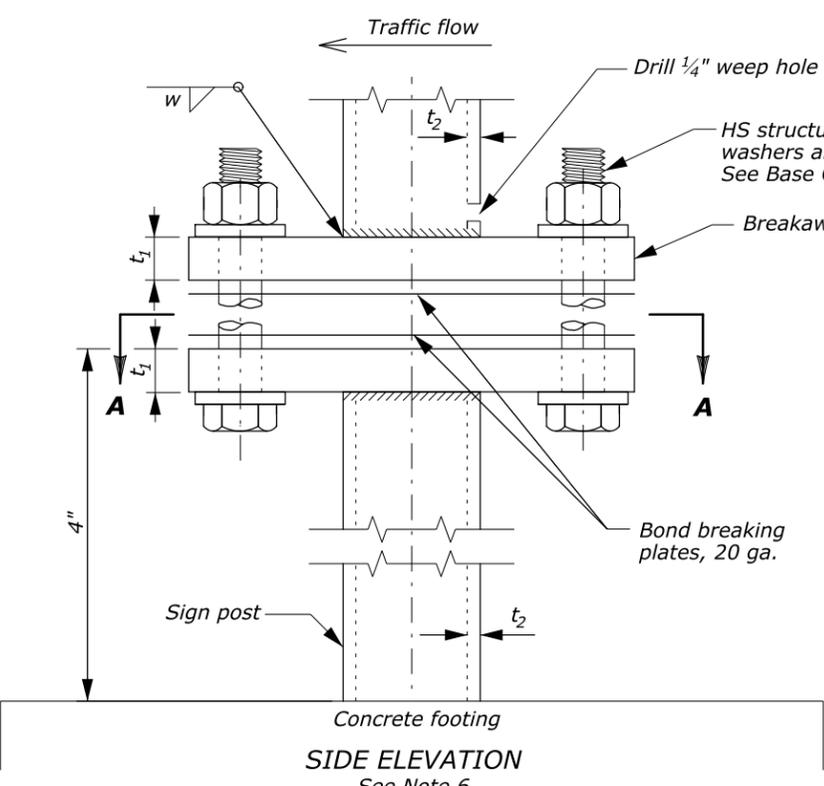
BOND BREAKING PLATE



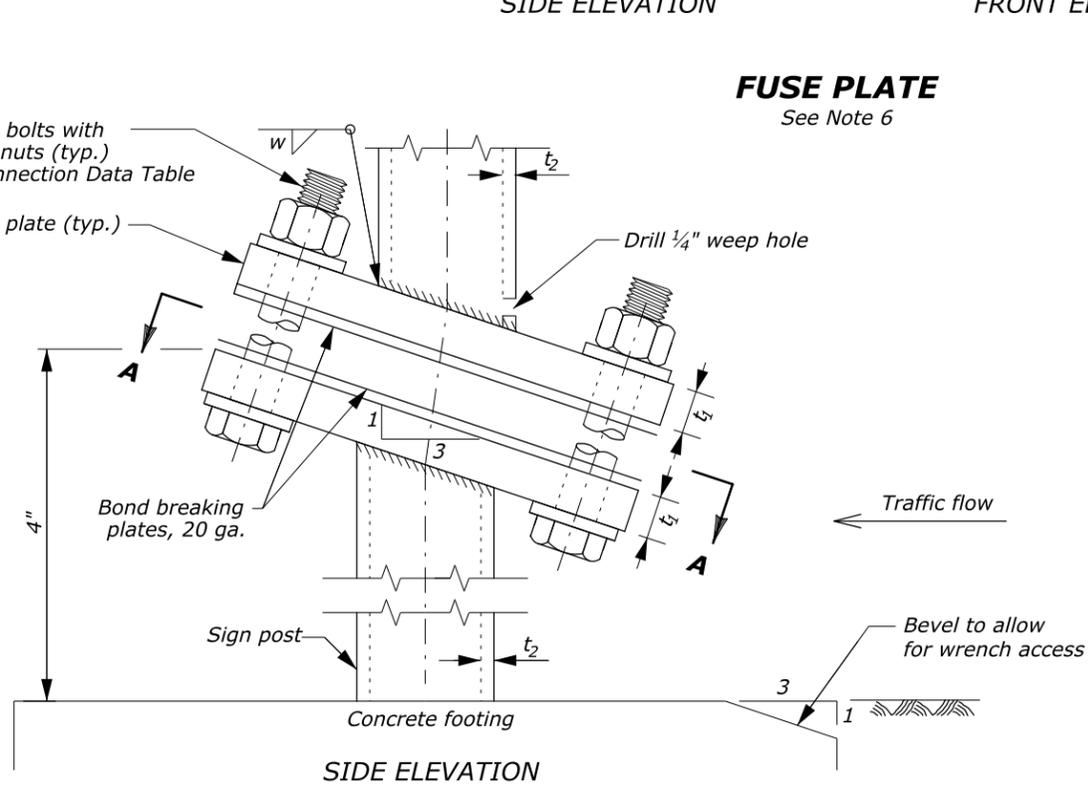
SIDE ELEVATION



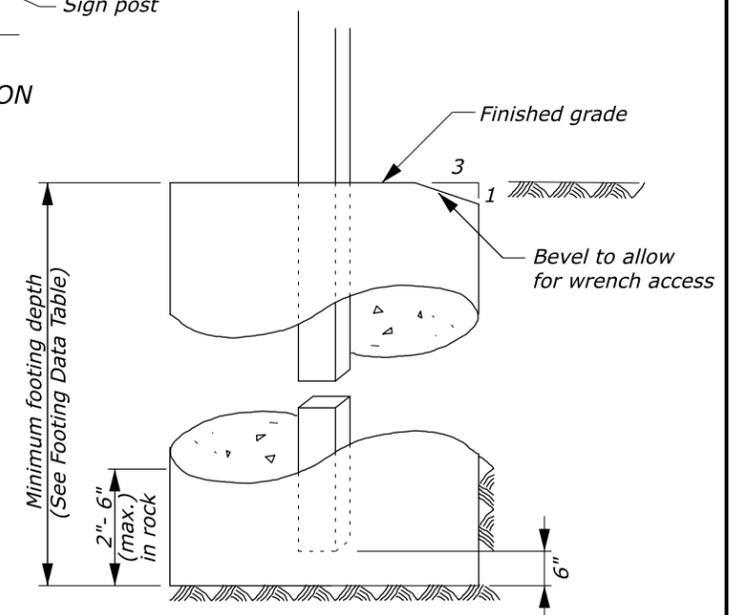
FRONT ELEVATION



MULTIPLE POST BREAKAWAY
See Notes 4 and 5



SINGLE POST BREAKAWAY
See Notes 4 and 5



CONCRETE FOOTING

NOTES:

1. Breakaway sign support is not required for signs placed behind protective barriers.
2. Install breakaway assembly in the direction of major traffic.
3. Use 10 gage Class B corrosion resistant square steel posts. Paint brown any corrosion resistant steel posts that do not naturally change color to brown.
4. Use galvanized steel in breakaway plates, bond breaking plates, and fastening structural bolts with nuts and washers. Paint brown to match the appearance of the corrosion resistant steel posts.
5. Use the Multiple Post Breakaway detail on single posts where exposed to opposing lanes of traffic.
6. Use fuse plates on multiple post installations only.
7. Refer to Detail E633-01 for sign mounting details.

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 OFFICE OF FEDERAL LANDS HIGHWAY

EFLHD DETAIL

**BREAKAWAY SIGN SUPPORT
CORROSION RESISTANT STEEL**

DETAIL APPROVED FOR USE
 APPROVED: MAY 2011
 REVISED: SEPTEMBER 2020

DETAIL
 E633-02

NO SCALE

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NOTES TO THE DESIGNER

January 16, 2019

General Information

1. *If any of Details E633-02, -03, -04, or -05 is used, also include Detail E633-01.*
 2. *For Breakaway Sign Supports, use Detail E633-02 for Corrosion Resistant Steel and use Detail E633-03 for Wood and Steel.*
 3. *For sign bracings if needed, use Detail E633-04 (Sign bracings are usually needed for signs with 48" width or greater). Verify with Safety, COE and Partner Agency if bracings are required.*
 4. *For "Folding Signs" use Detail E633-05.*
 5. *Project Specific Details should be created for NPS UniGuide sign systems.*
-

Applicable SCRs.

1. Section 633 PERMANENT TRAFFIC CONTROL.
Make sure to specify the post materials (See FP 633.01 for designated posts materials: wood, aluminum, galvanized steel, or corrosion resistant steel) in the plans (typically on Summaries and Schedules sheets), in the sign pay item name, or in the SCR.
-

Typical Pay Item Used

- 63305-0100 thru 63305-1600 Posts, steel (Different sizes/shapes) (LNFT)
 - 63305-1700 thru 63305-2000 Posts, wood (Different sizes) (LNFT)
 - 63306-0100 thru 63306-1600 Posts, steel (Different sizes/shapes) (Each)
 - 63306-1700 thru 63306-2000 Posts, wood (Different sizes) (EACH)

 - 63319-0000 Post sleeve (EACH)
-

Updates

- 01/2019 – Updated "General Information" due to Details updates.
09/2020 - Revised the applicable SCRs section to not refer to LOS (There are no 633 LOS in the library yet).