

GENERAL NOTES

Design conforms with AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 2002". Breakaway base and hinge design conforms with "Breakaway Roadside Sign Support Structures", Texas Transportation Institute, Texas A&M University, July 1967.

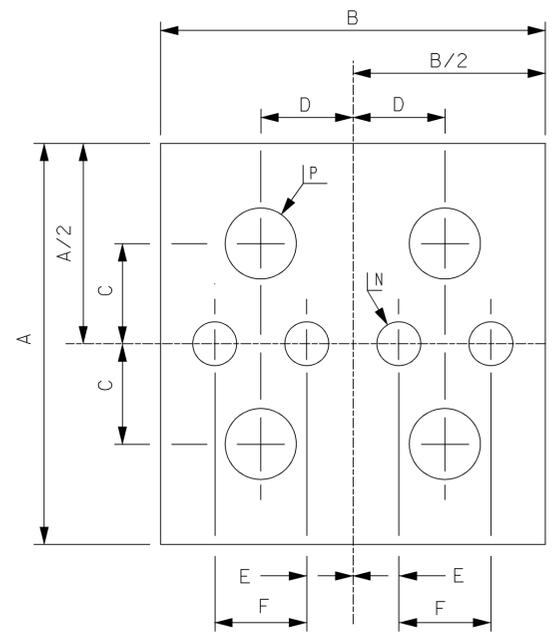
Fuse plate steel shall conform to ASTM A36/A36M (No substitutes will be allowed). All other structural steel shall conform to ASTM A36/A36M or A572/A572M Grade 345. Alternates using ASTM A588/A588M or A242/A242M Grade 345 or other approved steels may be substituted for ASTM 572/A572M steel. All structural steel shall be galvanized in accordance with ASTM A123 after fabrication.

All high strength bolts, nuts, and washers shall conform to ASTM A325M and shall be coated in accordance with the coating specifications.

The fuse plate shall be centered on the saw cut and the steel post.

It is permissible to close the ends of the structural tubing tie bar with a 6 mm steel plate.

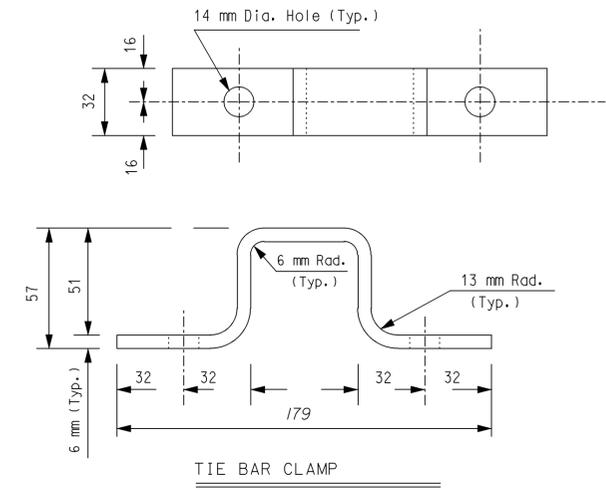
BREAKAWAY HINGE and STRUCTURAL TUBE TIE BAR MOUNTING



FUSE PLATE DETAIL



STRUCTURAL TUBE TIE BAR
51 mm x 51mm x 4.6 mm wall



TIE BAR CLAMP

FUSE DATA TABLE												
POST SIZE	BOLT SIZE	A	B	C	D	E	F	N	P	T3	X	Z
S 75 x 8.5	M12 x 1.75 x 45	108	60	32	17.5	7	14	9	14	6	17	19
W 150 x 13	M16 x 2 x 45	121	102	35	25	12	24	13	17	5	29	16
W 250 x 18	M20 x 2.5 x 50	121	102	35	25	12	24	12	21	6	29	17
W 250 x 33	M24 x 3 x 65	152	146	38	35	17.5	35	17	27	8	35	21

* S 75 x 11 steel post may be substituted for the S 75 x 8.5 steel post
Dimensions "N" and "P" are hole diameters.
Dimension "T3" is the fuse plate thickness.

Plotted By : @USERNAME@ Thacher Bldg., 4th Floor
 Plot File : @DGNFILE@
 Plot Date : @SYTIME@

All dimensions are in millimeters, unless otherwise noted.

3					
2					
1					
NO.	DATE	REVISIONS	BY	APP'D	

KANSAS DEPARTMENT OF TRANSPORTATION
DETAILS FOR
STEEL BEAM BREAKAWAY POSTS
(SHEET 2 of 2)

TE464si 07-01-03

FHWA APPROVAL 07-22-2003	APP'D Steven A. Buckley
DESIGNED DDG	DETAILED AAB
DESIGN CK. SAB	DETAIL CK. DDG
QUANTITIES	QUAN. CK.
TRACED	TRACE CK.