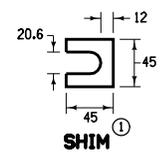
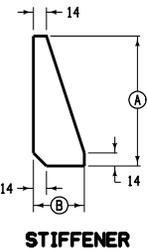


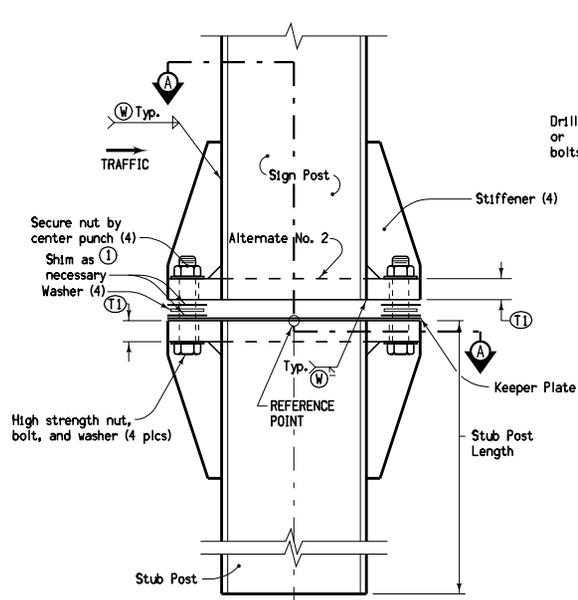
Side View
TYPICAL SIGN INSTALLATION



SHIM



STIFFENER

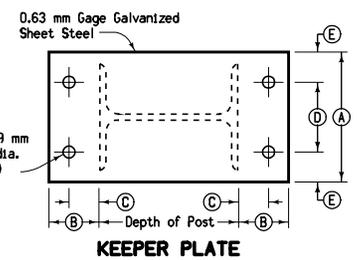


Side View
BREAKAWAY BASE

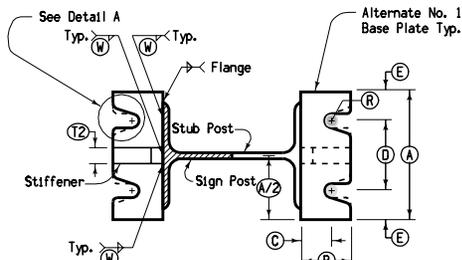
Ⓜ Welds shall be continuous fillet welds and of a depth equal to the thickness of the flange for the post unless otherwise specified.

POST DATA	
Post Size	Stub Length
W 150 x 14	760
W 150 x 18	
W 150 x 22	
W 200 x 27	
W 200 x 31	915
W 250 x 33	
W 250 x 39	
W 310 x 39	

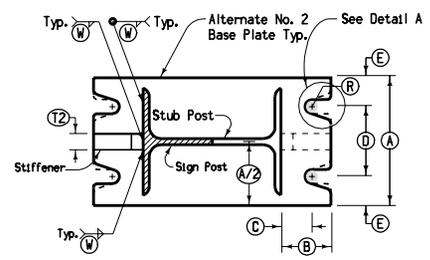
BREAKAWAY BASE DATA										
Post Size	Bolt Size & Torque	(A)	(B)	(C)	(D)	(E)	(T1)	(T2)	(W)	(R)
W 150 x 14	15.9 mm dia. x 70 mm Torque = 50.8 N·m	130	50	30	70	30	20	14	6	8.7
W 150 x 18										
W 150 x 22										
W 200 x 27										
W 200 x 31	19 mm dia. x 89 mm Torque = 84.7 N·m	160	60	35	90	35	25	20	8	10.3
W 250 x 33										
W 250 x 39										
W 310 x 39										



KEEPER PLATE



Section A-A (Plan)
BASE ALTERNATE 1



Section A-A (Plan)
BASE ALTERNATE 2

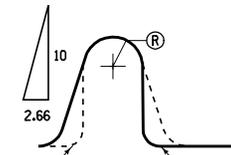
Details shown are for signs installed to the right of traffic. This shall be the default unless specified otherwise by the contract documents. For signs installed to the left of traffic, the notches in the breakaway base plate shall be beveled in the direction opposite of that shown (dashed lines).

Breakaway base shall be fabricated by either of two methods:

ALTERNATE NUMBER 1 - Base plates (2 each), shall be welded to sides of sign post and stub post flanges.

ALTERNATE NUMBER 2 - Base plate (1 each), shall be welded to end of sign post and stub post by continuous fillet weld. When fully assembled, the bolt holes and notches in the stub post plate and the sign post plate shall be properly matched and aligned.

- ① Sign post shall be plumbed by installing shims. The Contractor shall furnish two shims each of 0.3 millimeter and 0.8 millimeter thickness (total of 4 per post). Shims shall be brass stock or strip conforming to ASTM B 36.



For posts mounted to the left of traffic (solid line)
For posts mounted to the right of traffic (dashed line)

Detail 'A'
NOTCH BEVEL PLAN

Contract Item:
Steel Breakaway Sign Post for Type A or B Signs

All dimensions given in millimeters unless noted.

M	 Iowa Department of Transportation	REVISION
		7 10-16-07
		RD-21A
		SHEET 1 of 1
REVISIONS: Added Type A to Contract Item list.		
 APPROVED BY DESIGN METHODS ENGINEER		
BREAKAWAY SIGN POST		