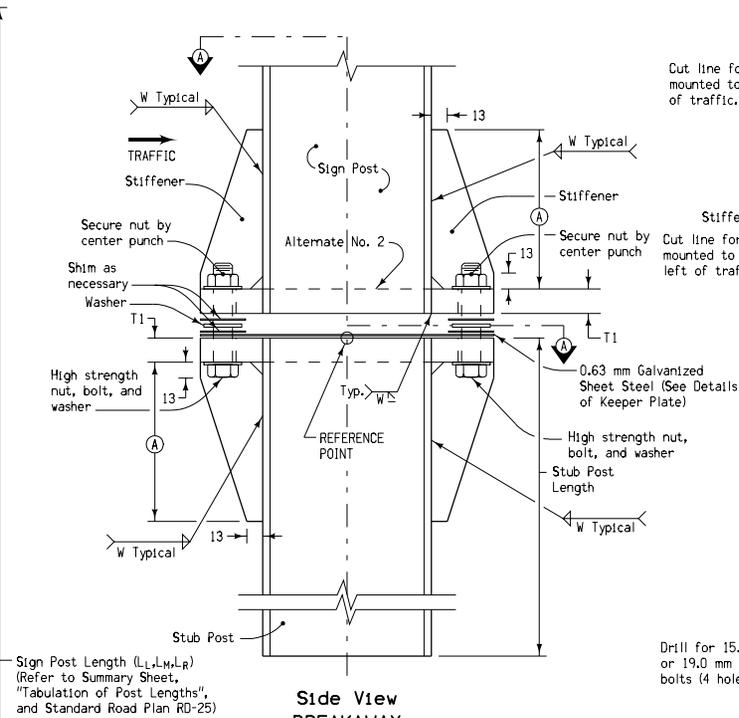
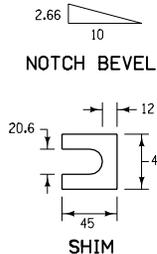


TYPICAL SIGN INSTALLATION

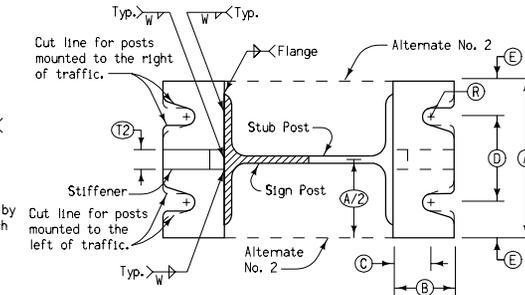


Side View  
BREAKAWAY  
BASE DETAILS

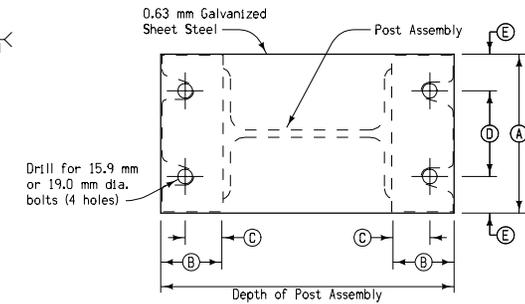
(W) Welds shall be continuous fillet welds and of a depth equal to the thickness of the flange for the post unless otherwise specified.



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 250 x 39	
W 310 x 39	



Section A-A (Plan)  
DETAILS OF BASE



DETAILS OF KEEPER PLATE

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 250 x 39										
W 310 x 39										

Signpost 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 36M.

Details are shown for signs to be installed to the right of through roadway traffic. All installations will be this, unless specified otherwise. For a left side installation, the notches in the breakaway base plate would be beveled in opposite direction as that shown.

Breakaway base shall be fabricated by either of two methods:

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

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

Contract Item:

Steel Breakaway Sign Posts for Type B Signs (RD-21A)

All dimensions given in millimeters unless noted.

<b>METRIC VERSION</b>	Iowa Department of Transportation Highway Division
	<b>STANDARD ROAD PLAN RD-21A</b>
	REVISION: Remove the reference to zinc rich paint; remove notes covered in the Specifications Book; change title.
	<i>William J. Sten</i> APPROVED BY DESIGN METHODS ENGINEER
	REVISION NO. 6
	REVISION DATE 04-19-05
<b>BREAKAWAY SIGN POST</b>	