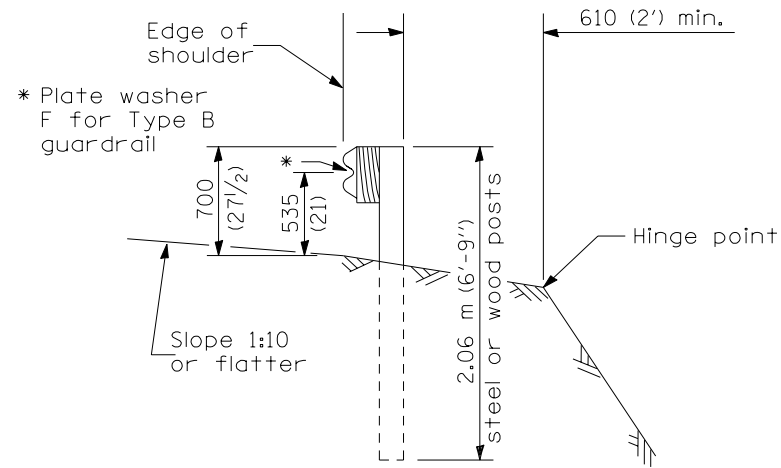
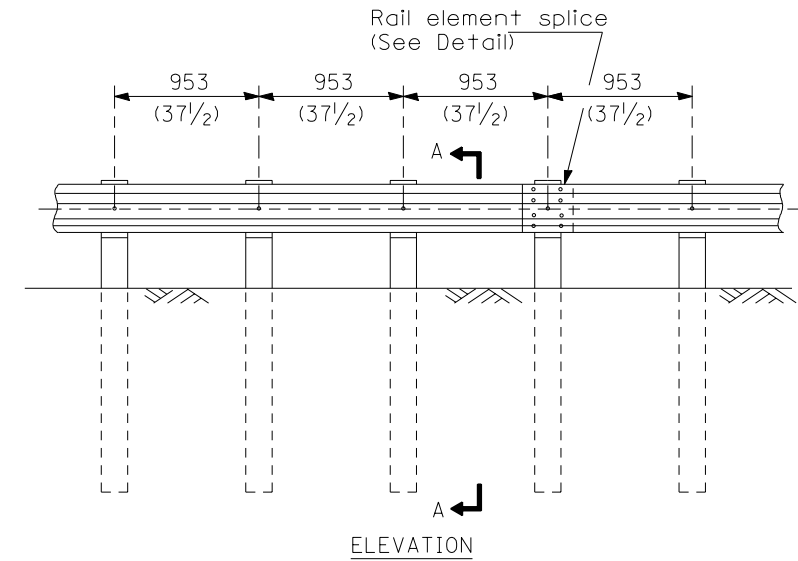


TYPE A

1.905 m (6'-3'') Typical post spacing

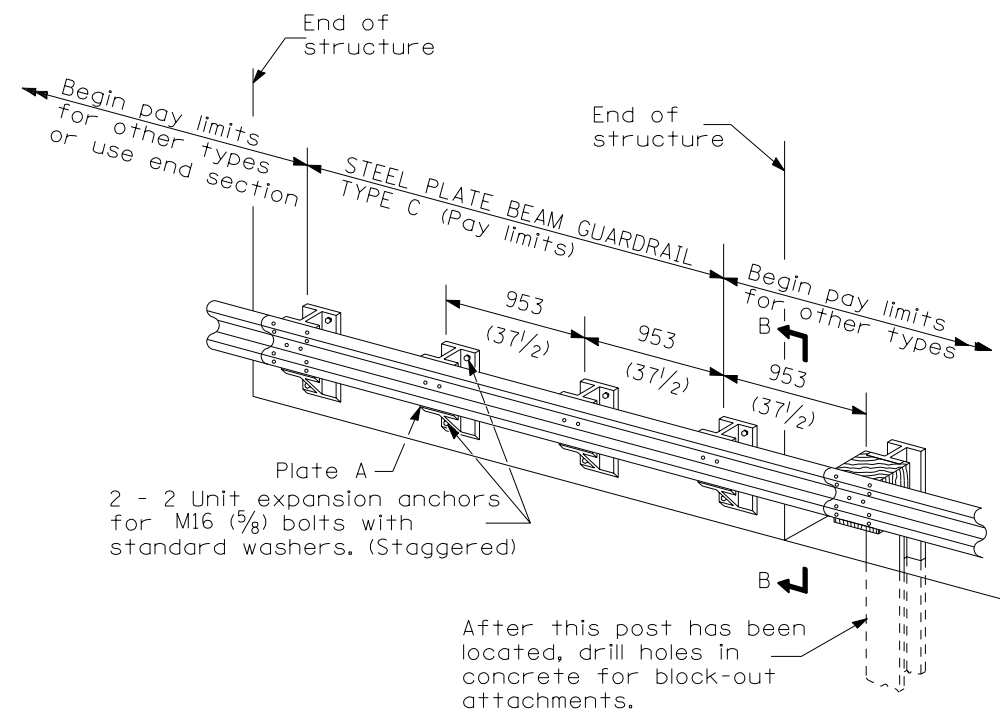


SECTION A-A



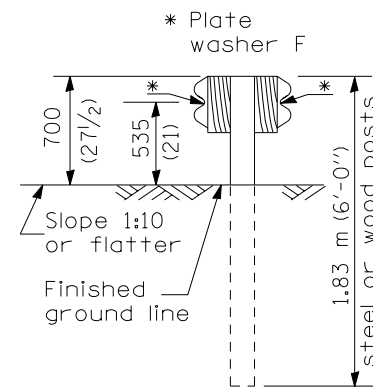
TYPE B

953 (37 1/2'') Closed post spacing

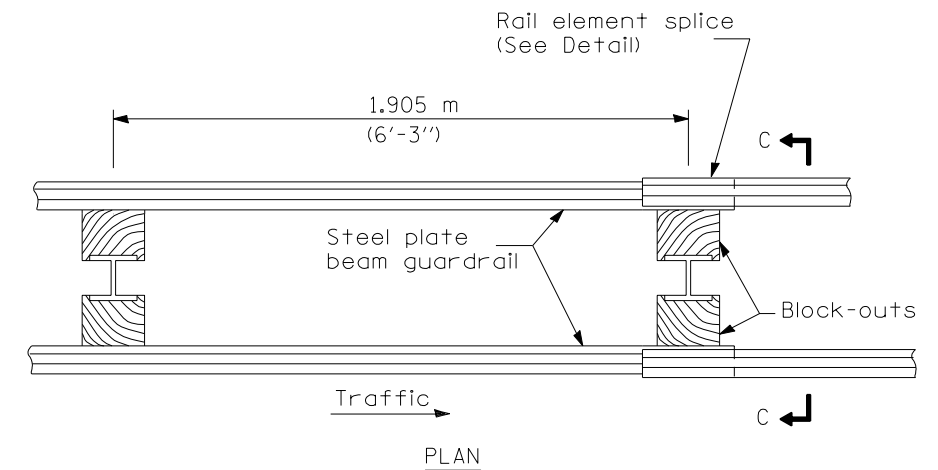


TYPE C

953 (37 1/2'') Block-out spacing

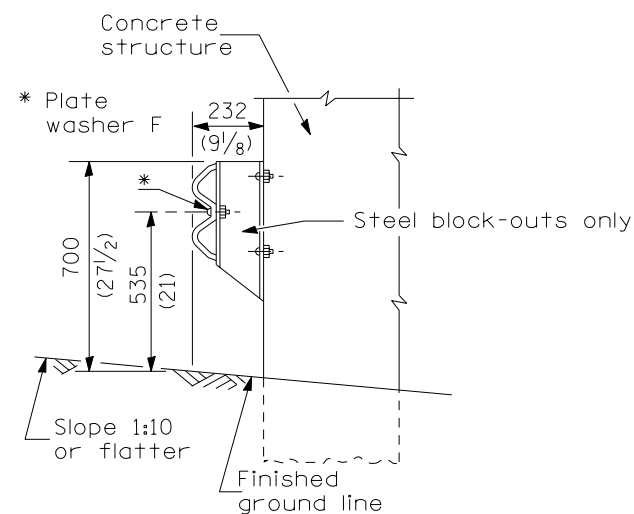


SECTION C-C



TYPE D

Double steel plate beam guardrail
1.905 m (6'-3'') typical post spacing



SECTION B-B

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2005
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2005
Michael S. Hine
ENGINEER OF DESIGN AND ENVIRONMENT

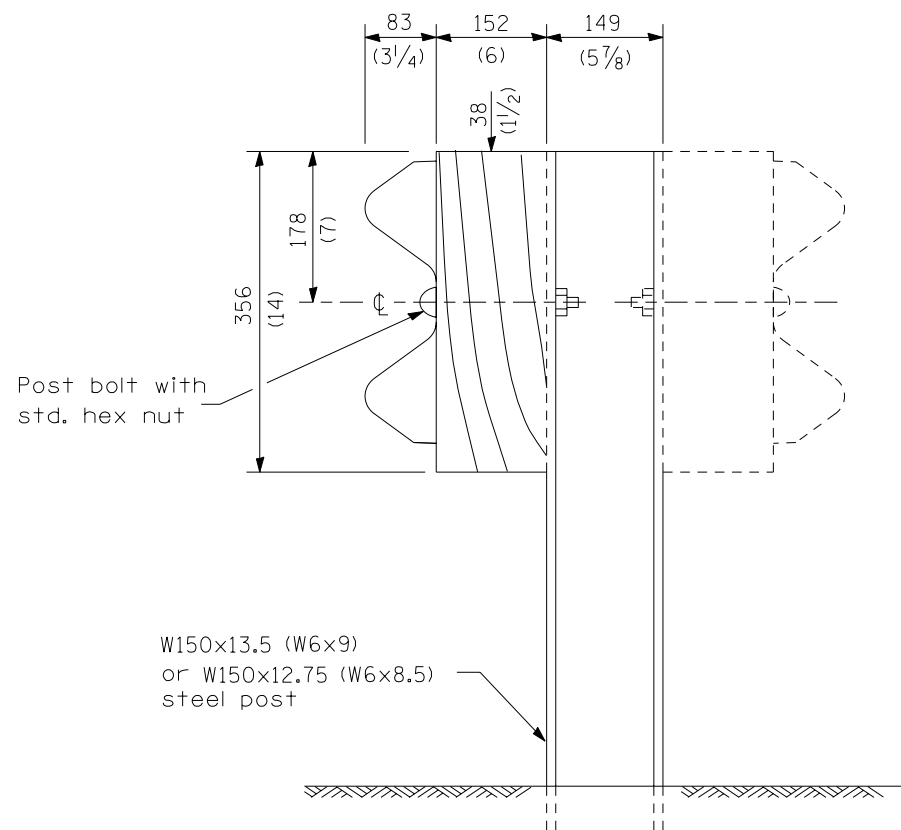
ISSUED 1-1-97

DATE	REVISIONS
1-1-05	Rev. post in impevious material on sheet 4.
10-1-02	Added min. spacing from guardrail post to shoulder hinge point.

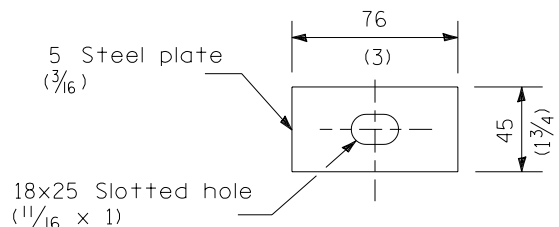
STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

STANDARD 630001-05

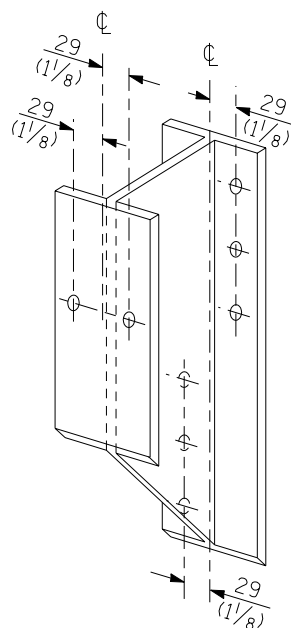


STEEL POST CONSTRUCTION

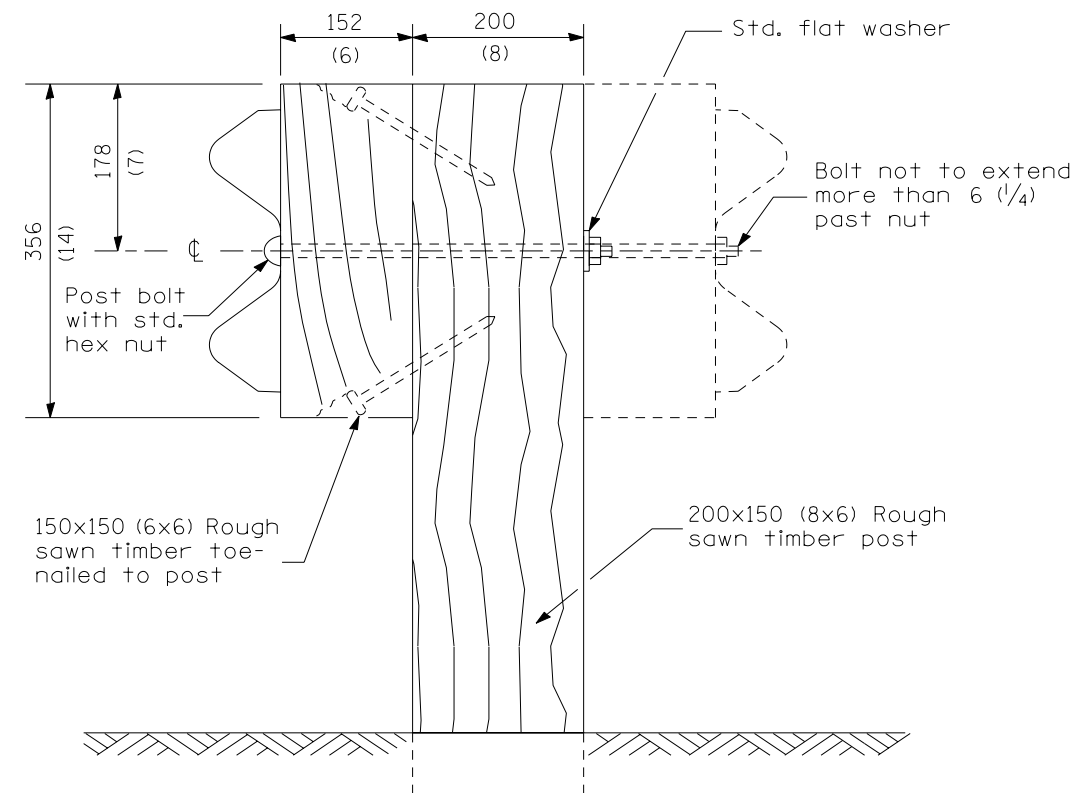


NOTE
Plate washer F shall be used on type A guardrail only where specified. Plate washer F shall be used at all other locations where rail element is bolted to a block-out unless otherwise noted.

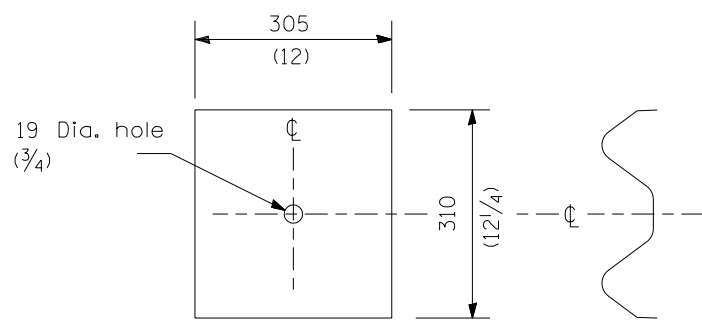
PLATE WASHER F



STEEL BLOCK-OUT DETAIL



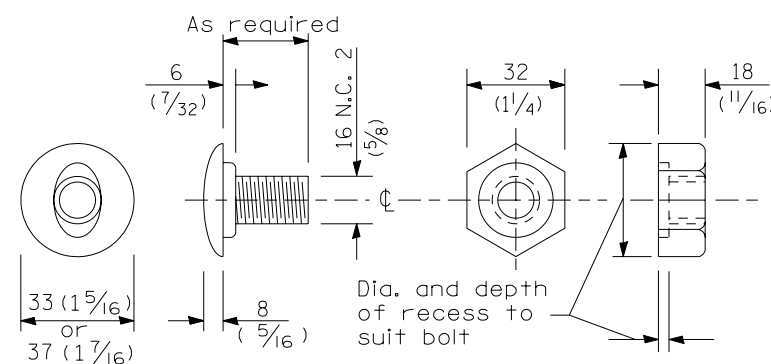
WOOD POST CONSTRUCTION



NOTE

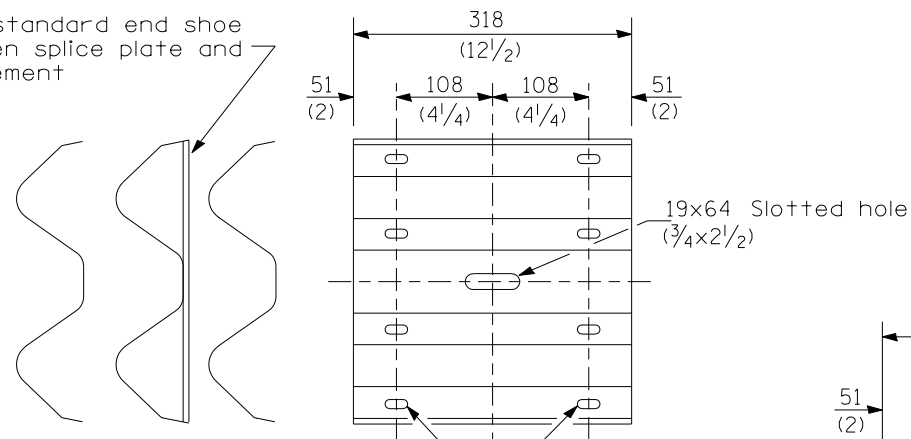
Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

PLATE A



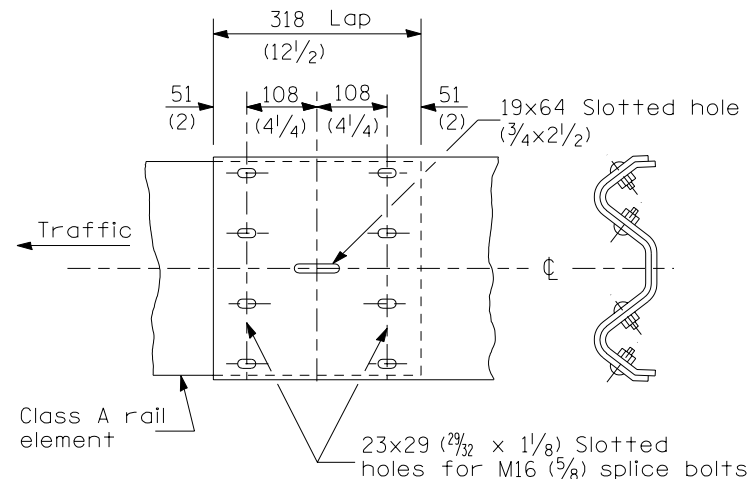
POST OR SPLICE BOLT & NUT

Place standard end shoe between splice plate and rail element

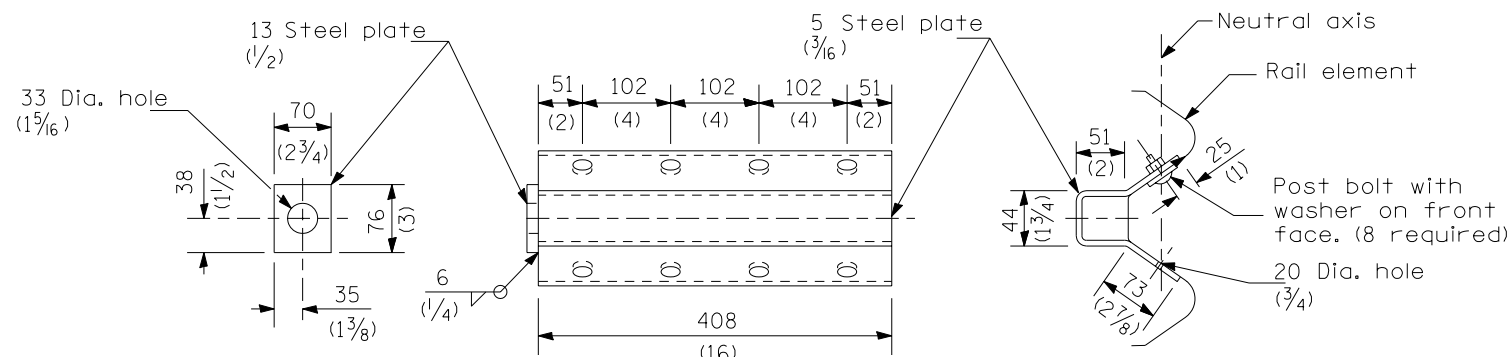


23x29 Slotted holes
(29/32 x 1 1/8)

SPLICE PLATE

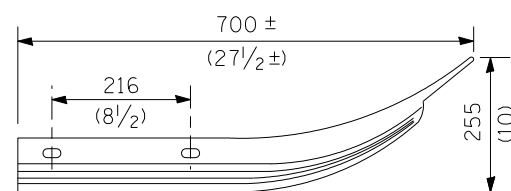


RAIL ELEMENT SPLICE

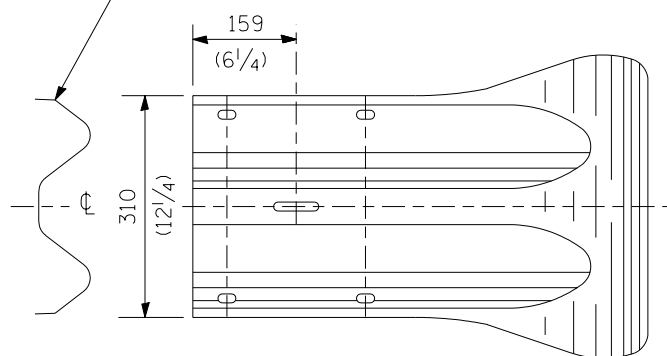


NOTE
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

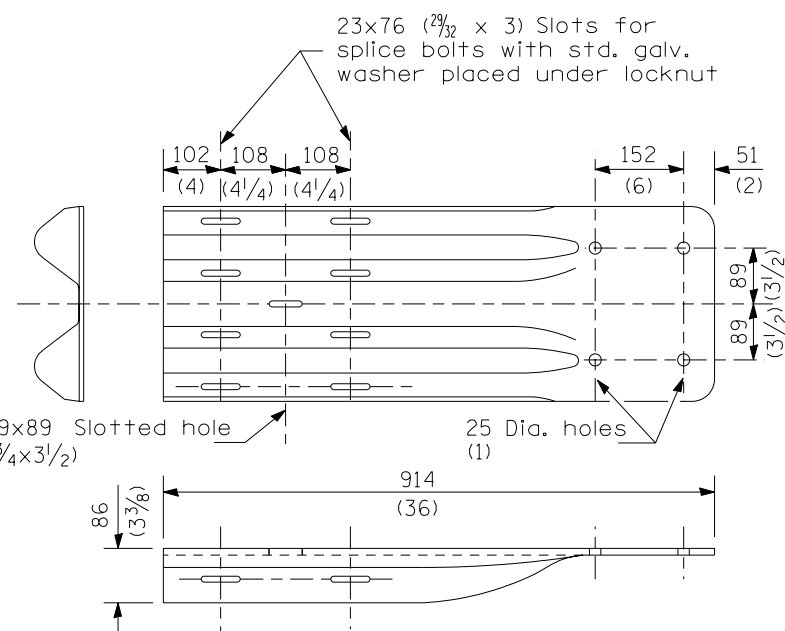
ANCHOR PLATE T DETAILS



Class A rail element



END SECTION



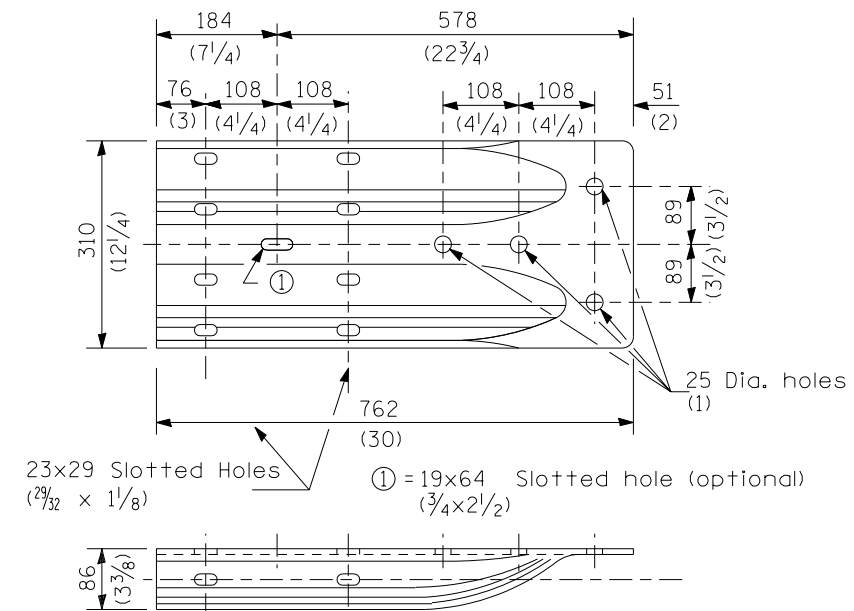
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

Illinois Department of Transportation

PASSED January 1, 2005
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

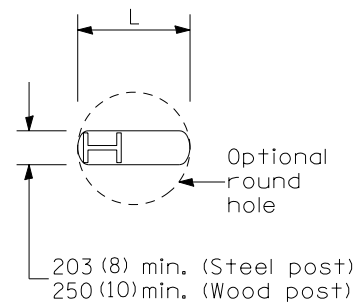
APPROVED January 1, 2005
Michael S. Hine
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

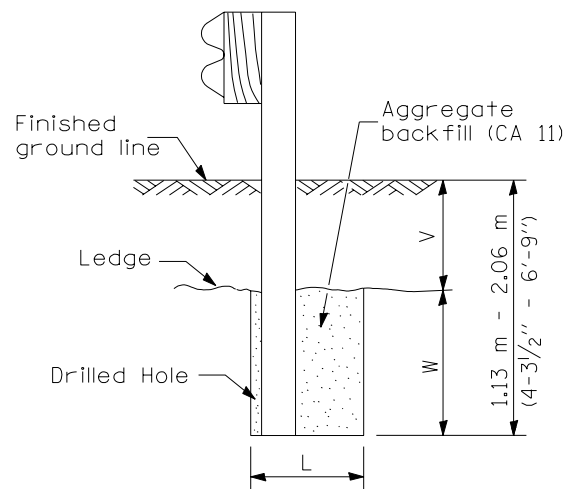
STEEL PLATE BEAM
GUARDRAIL

(Sheet 3 of 4)

STANDARD 630001-05



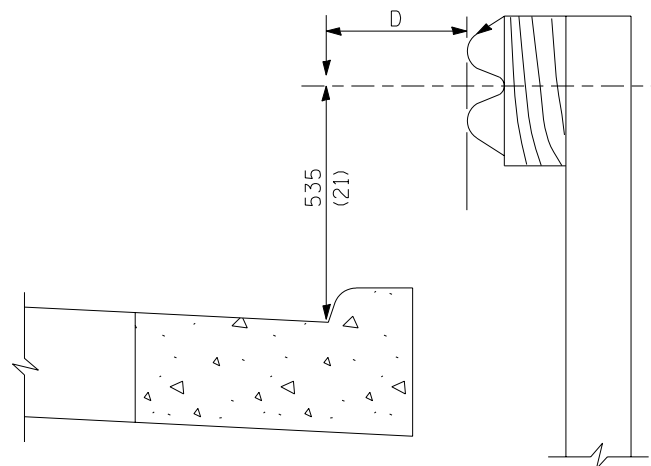
PLAN



Note:
Ledge line is top of rock ledge or hard slag fill.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

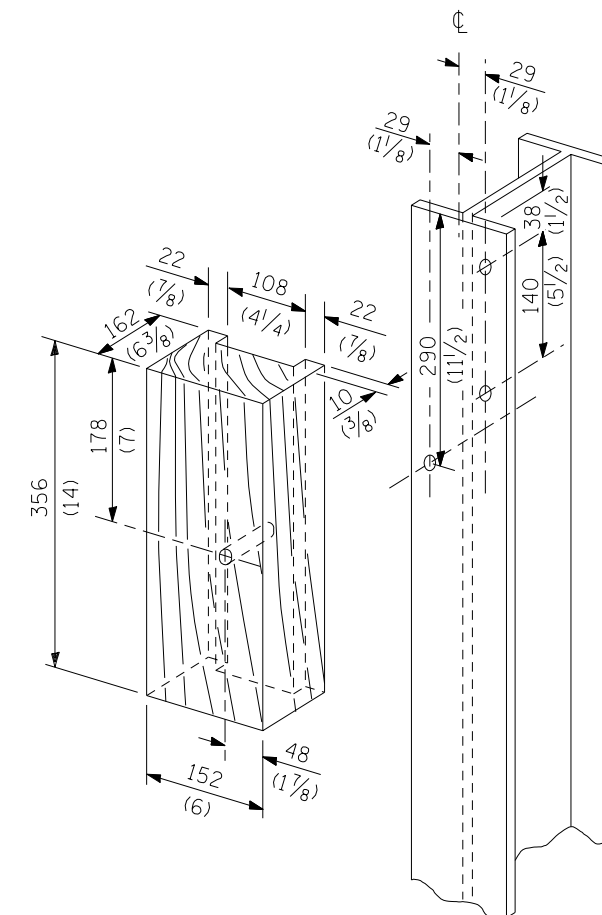


Note:
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0'') type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

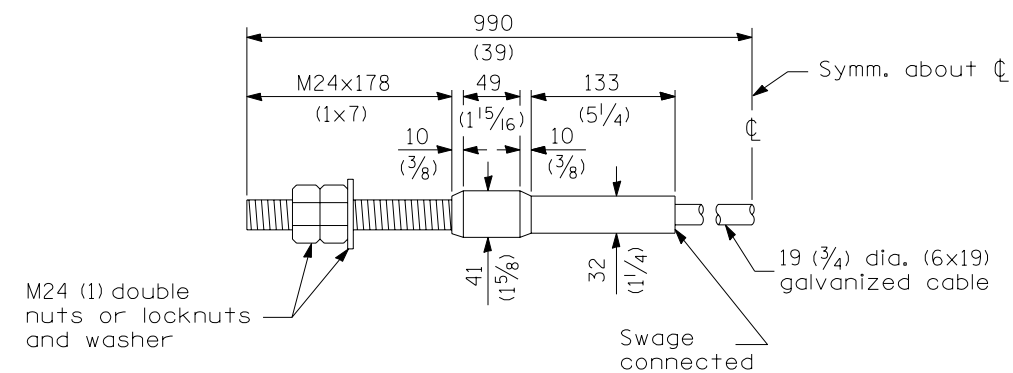
GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)

V	W	L	
		Steel Post	Wood Post
0 - 460 (0 - 18)	610 (24)	530 (21)	580 (23)
>460 - 825 (>18 - 41.5)	305 (12)	203 (8)	250 (10)
>825 - 1.13 m (>41.5 - 53.5)	305 - 0 (12 - 0)	203 (8)	250 (10)



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.