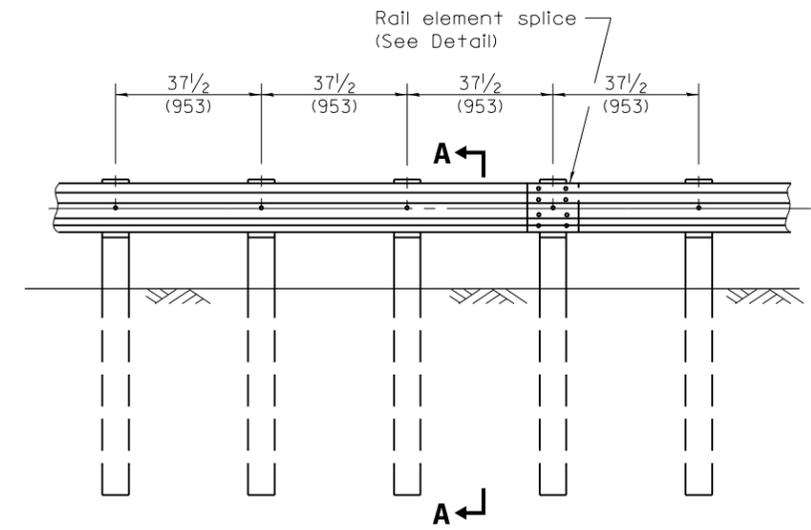


**ELEVATION**

**TYPE A**

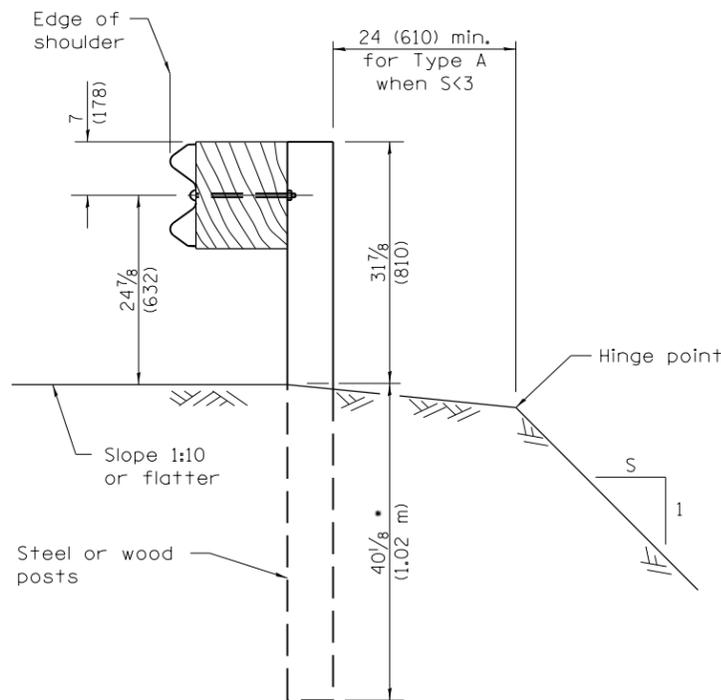
6'-3" (1.905 m) Typical post spacing



**ELEVATION**

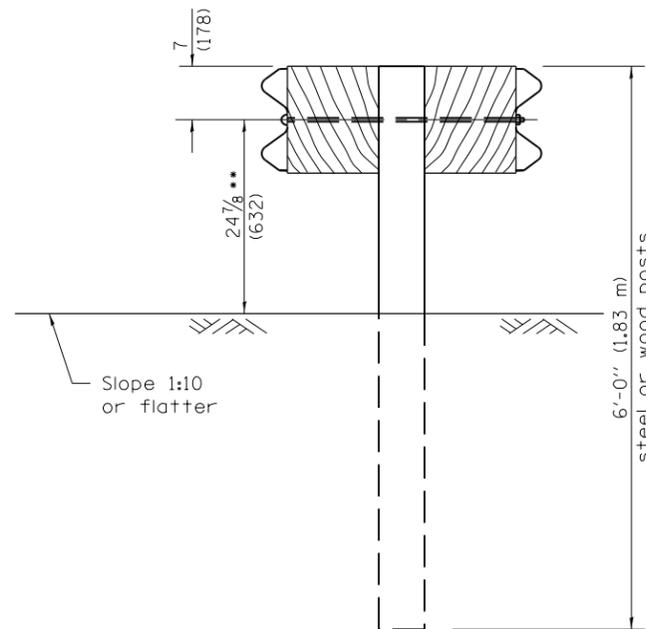
**TYPE B**

37 1/2 (953) Closed post spacing



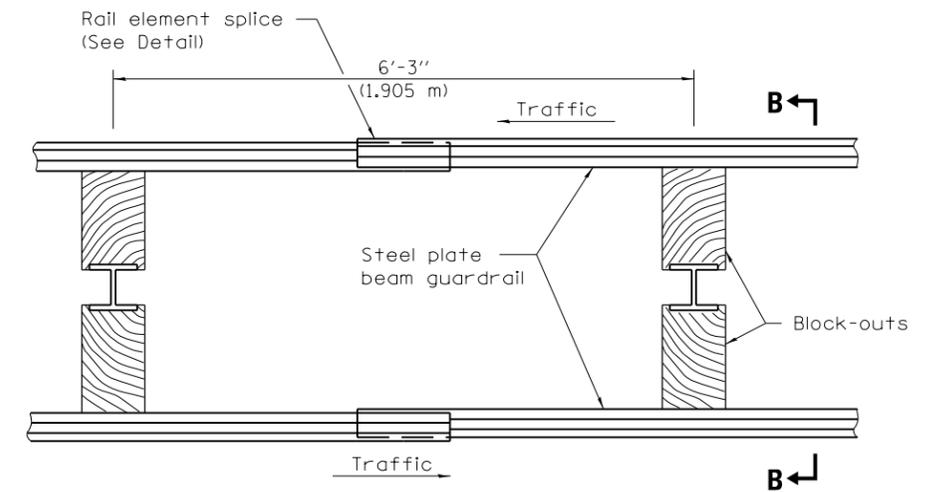
**SECTION A-A**

- When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post shall be steel and the embedment shall be 76 1/8 (1934).



**SECTION B-B**

- When connecting Type D guardrail to an impact attenuator, adjust this dimension to 21 1/8 (556) over a distance of 25'-0" (7.62 m) from point of connection.



**PLAN**

**TYPE D**

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

**GENERAL NOTES**

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

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

Illinois Department of Transportation

PASSED January 1, 2012  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2012  
*Scott Esdaile*  
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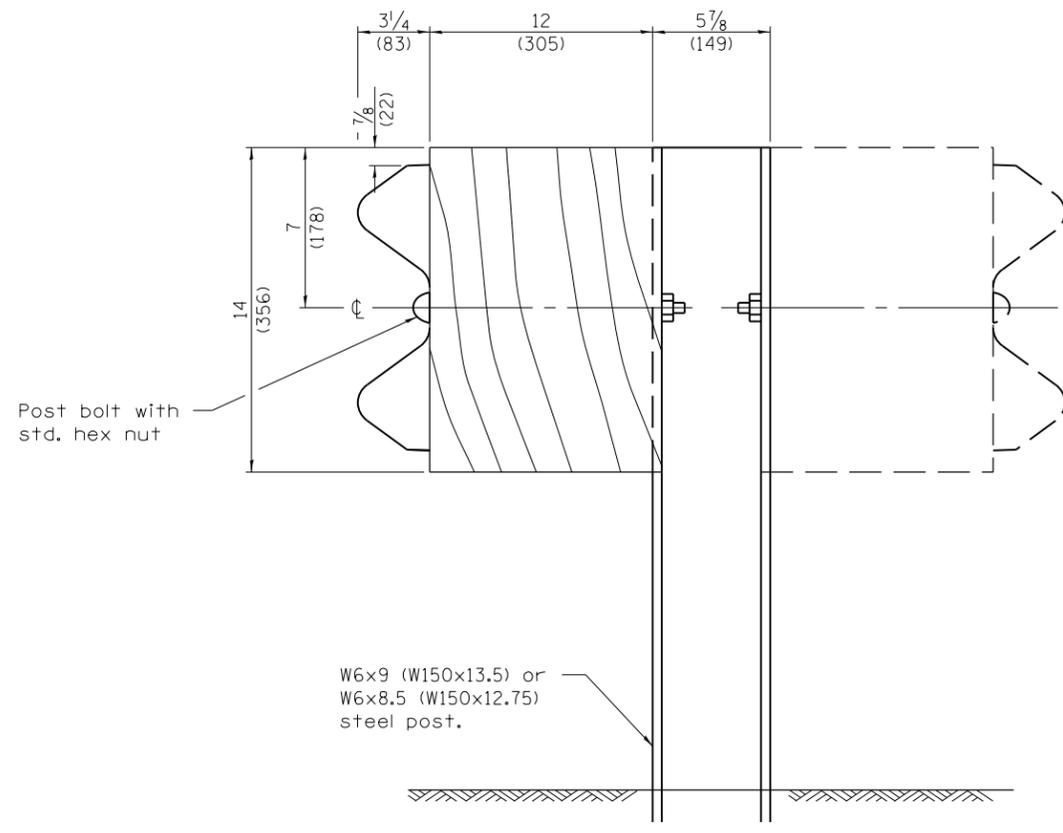
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Added req. for 9 ft. posts to be steel. Modified set back of g'rail behind curb.
1-1-11	Added note to Section B-B for conn. to impact att.
	Revised table on Sheet 4.

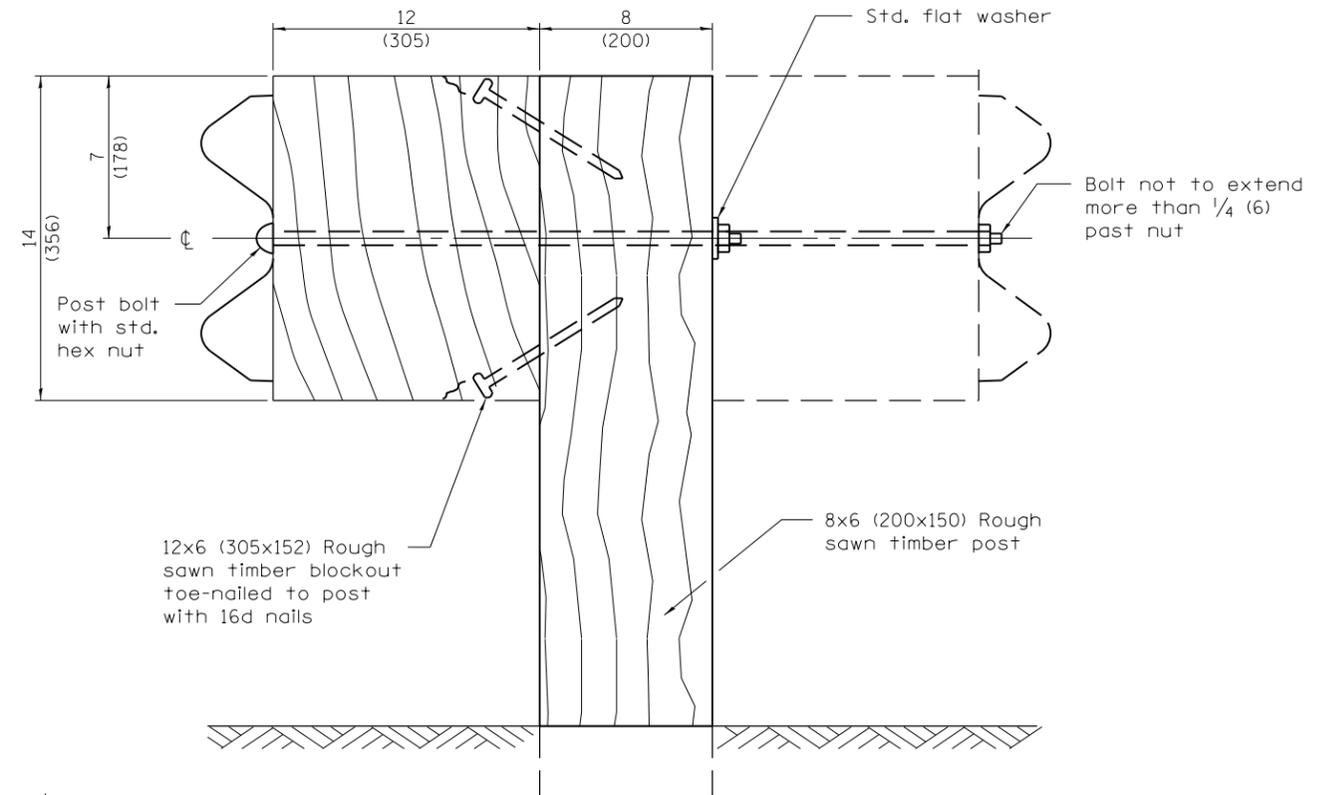
**STEEL PLATE BEAM GUARDRAIL**

(Sheet 1 of 4)

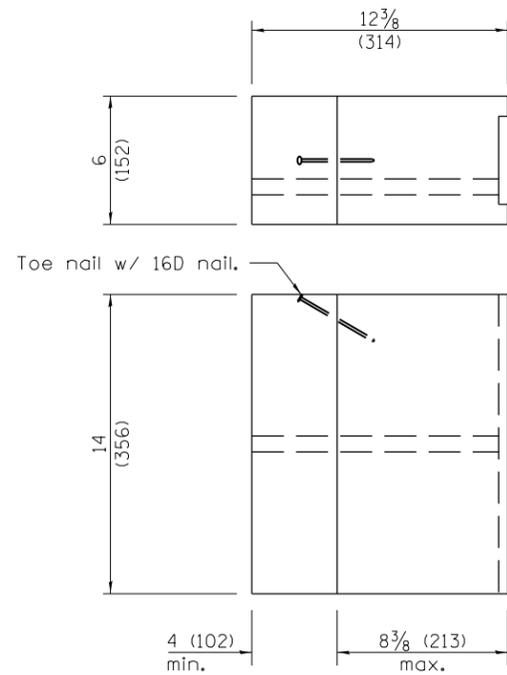
**STANDARD 630001-10**



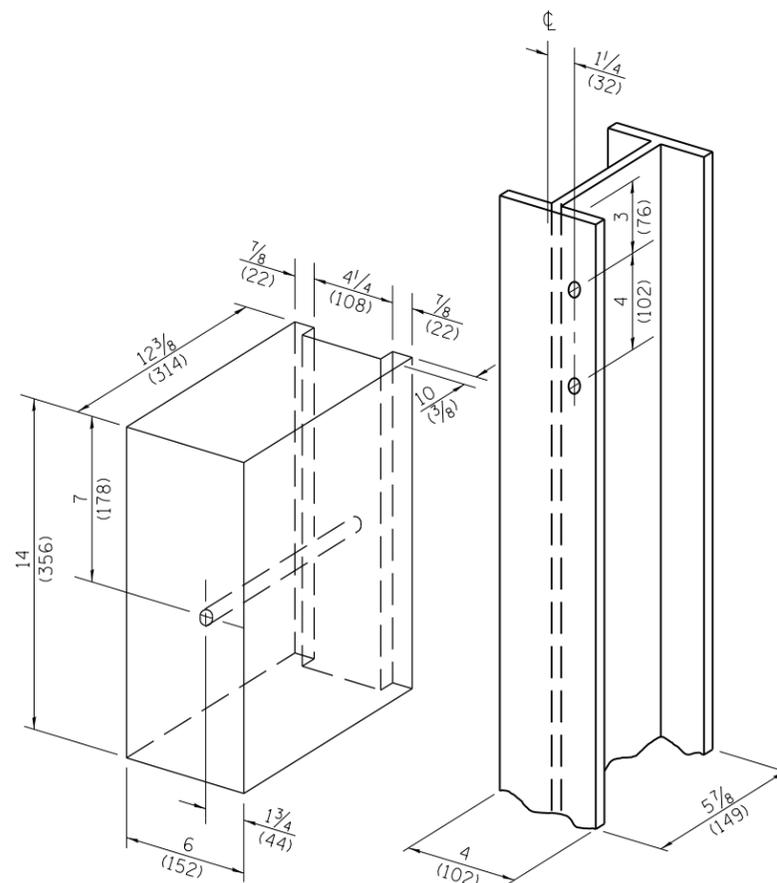
**STEEL POST CONSTRUCTION**



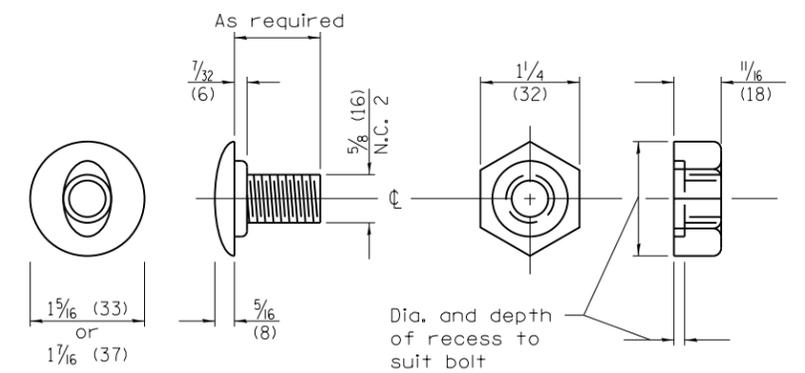
**WOOD POST CONSTRUCTION**



**TWO-PIECE WOOD BLOCKOUT OPTION**



**WOOD BLOCK-OUT AND STEEL POST DETAILS**



**POST OR SPLICE BOLT & NUT**

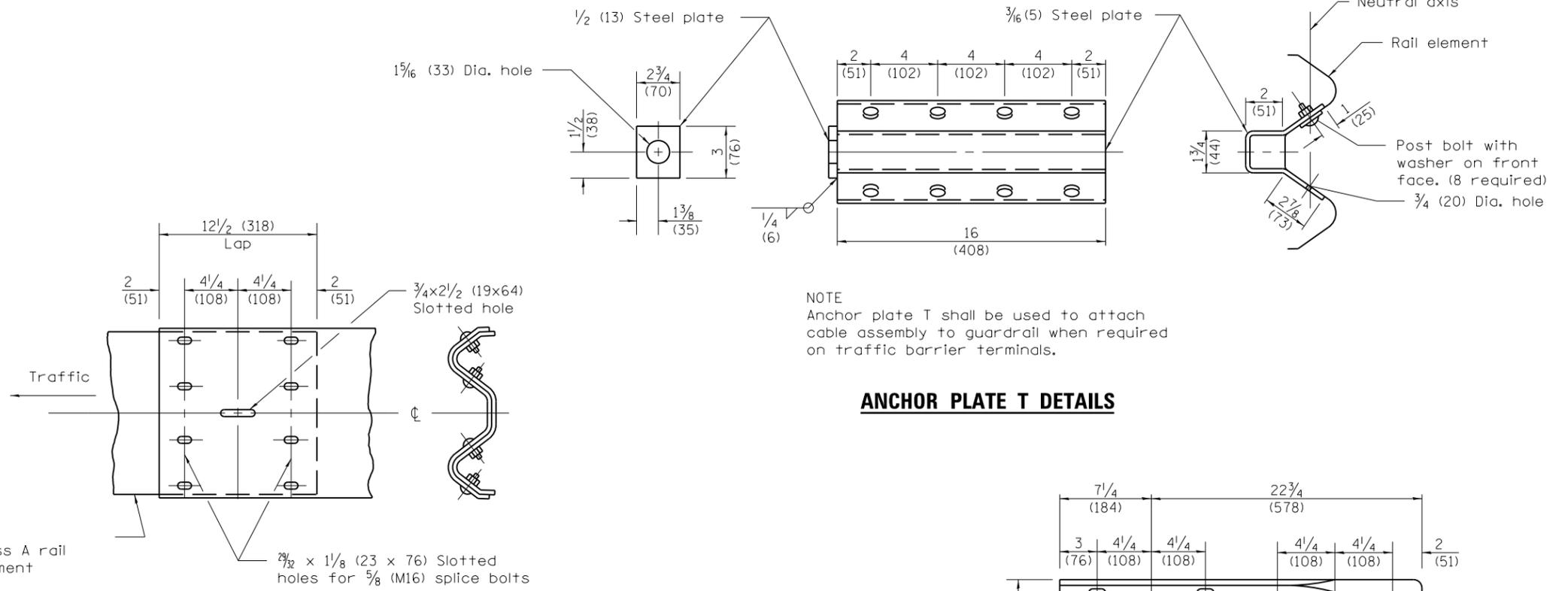
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 PASSED January 1, 2012  
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 APPROVED January 1, 2012  
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ISSUED 46-1-1 03/05/11

**STEEL PLATE BEAM GUARDRAIL**

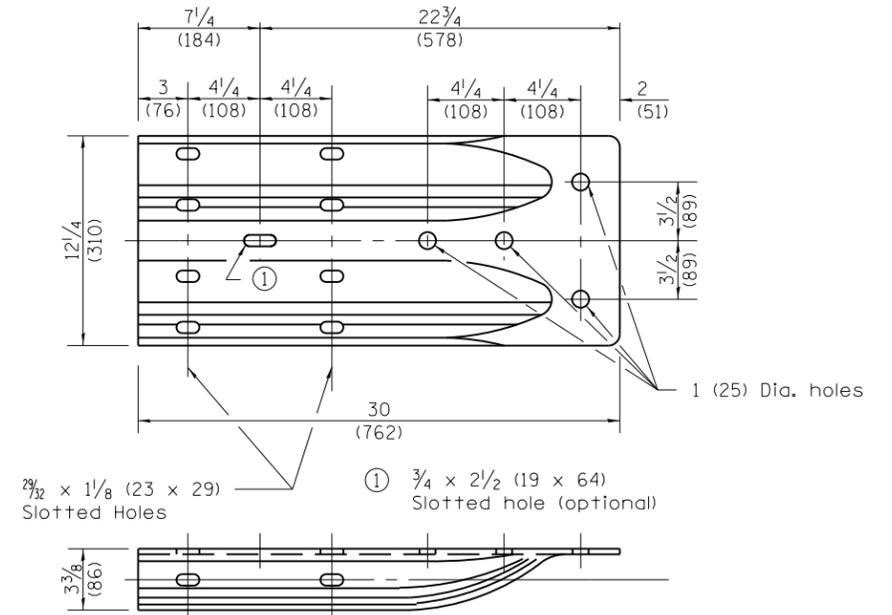
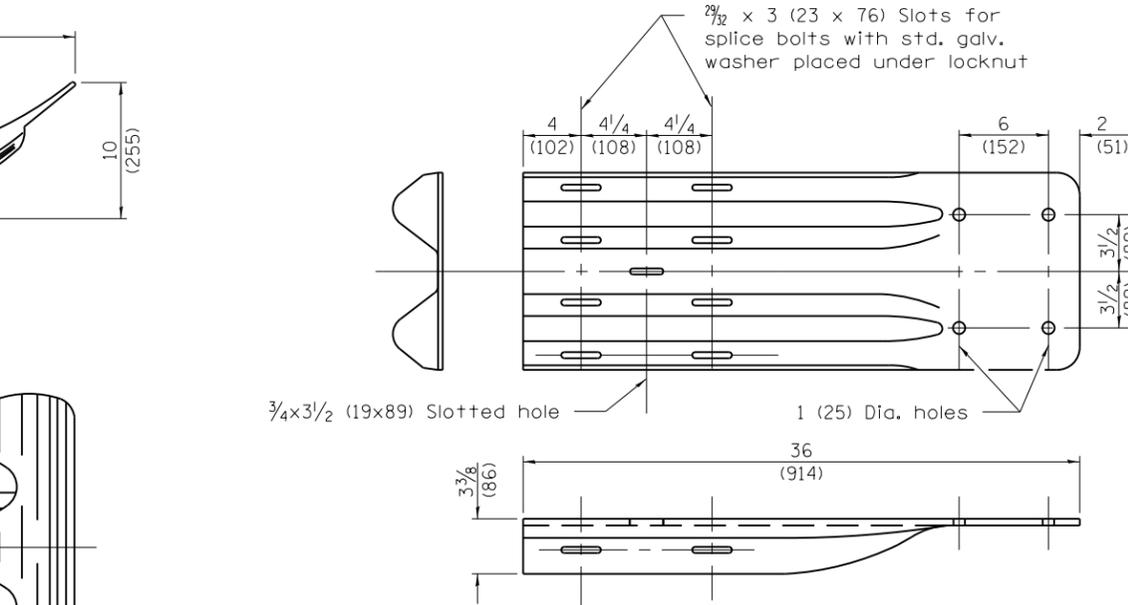
(Sheet 2 of 4)

**STANDARD 630001-10**

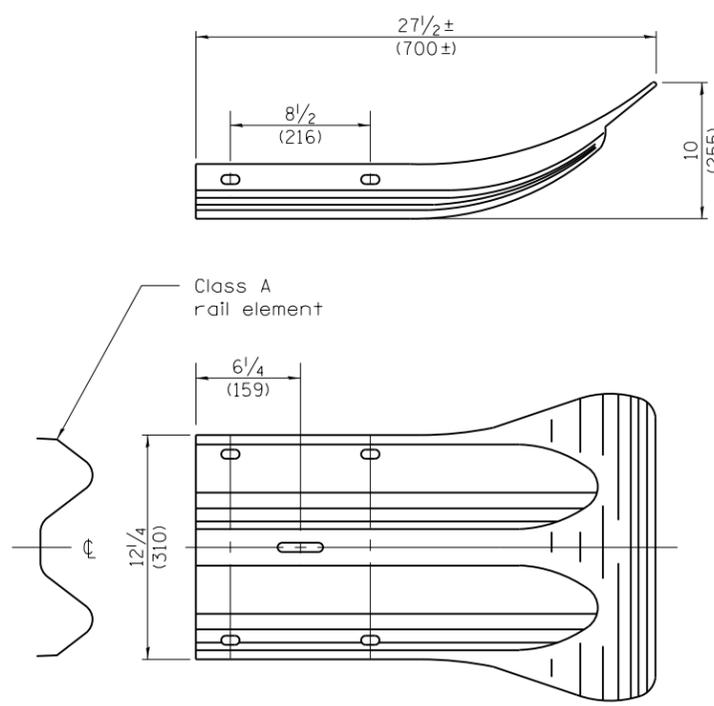


**ANCHOR PLATE T DETAILS**

**RAIL ELEMENT SPLICE**



**ALTERNATE END SHOE**



**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.

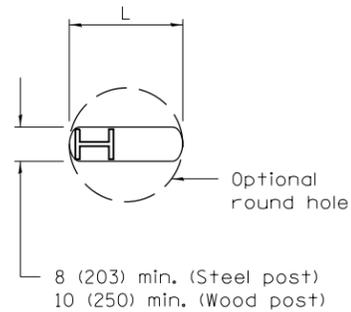
The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

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

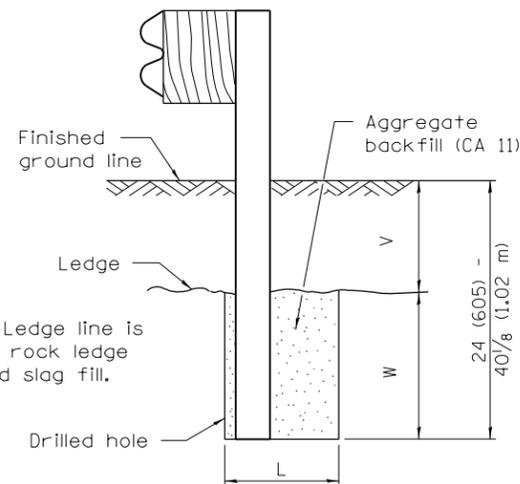
**END SHOE**

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 ISSUED 1-1-97

**STEEL PLATE BEAM  
 GUARDRAIL**  
 (Sheet 3 of 4)  
**STANDARD 630001-10**



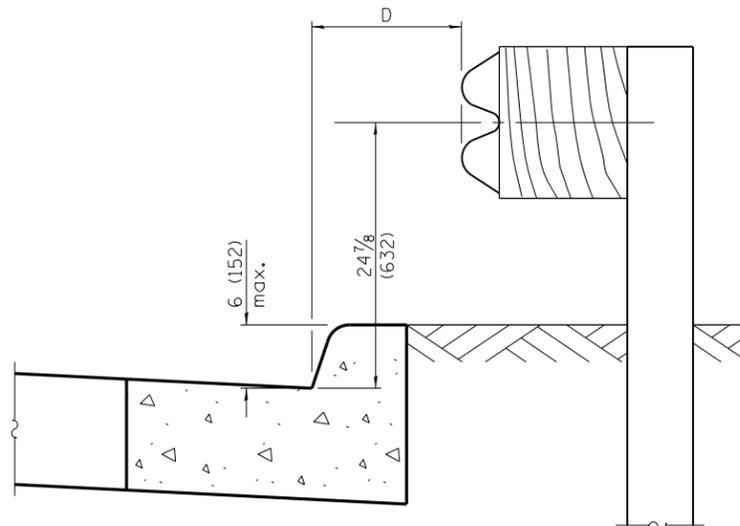
**PLAN**



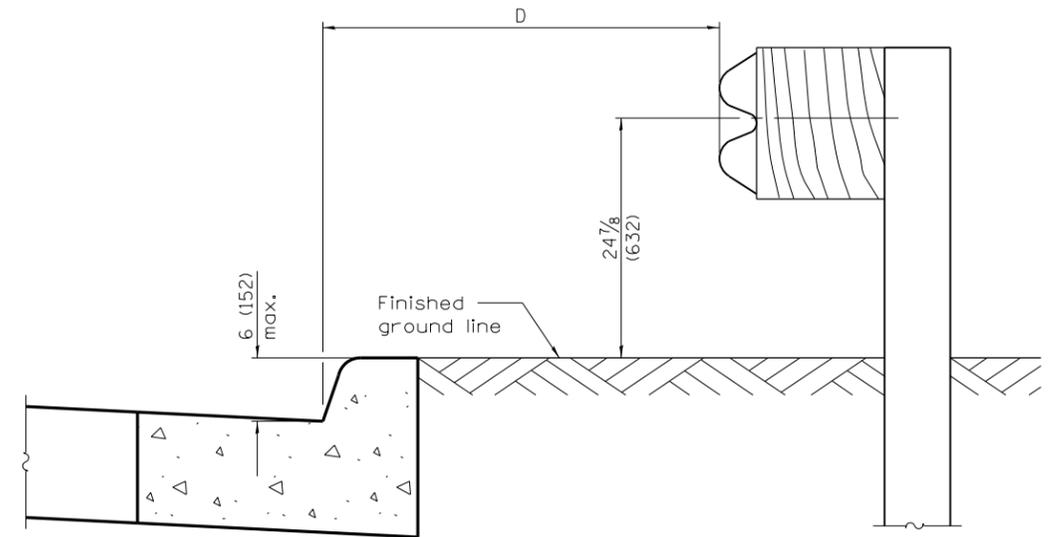
Note: Ledge line is top of rock ledge or hard slag fill.

**ELEVATION**

**FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED**



**0 ≤ D < 4'-0" (1.2 m)**

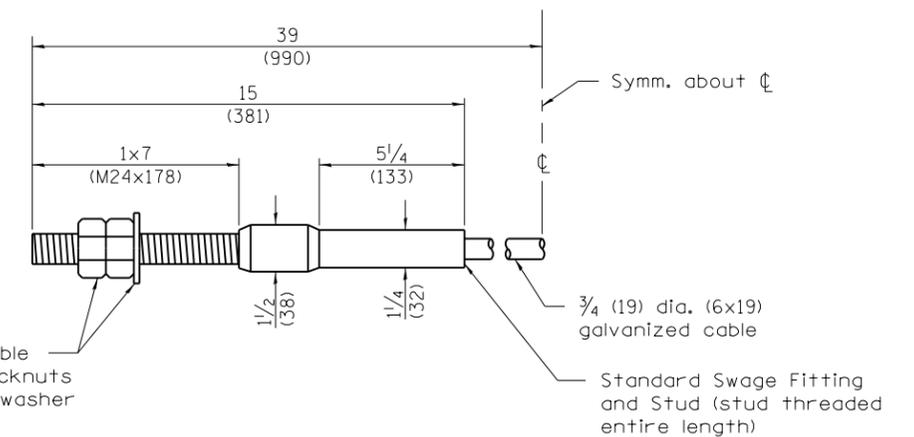


**4'-0" (1.2 m) ≤ D ≤ 12'-0" (3.7 m)**

**GUARDRAIL PLACED BEHIND CURB**

Note: 'D' shall not exceed 6 (152) for design speeds greater than 45 mph.

V	W	L	
		Steel Post	Wood Post
0 - 6 (0 - 152)	24 (610)	21 (530)	23 (580)
> 6 - 18 (> 152 - 458)	18 (458)	14 1/2 (368)	16 1/2 (419)
> 18 - 31 (> 458 - 787)	12 (305)	8 (203)	10 (250)
> 31 - 40 7/8 (> 787 - 1.02 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



**CABLE ASSEMBLY**

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

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ISSUED 1-1-97

**STEEL PLATE BEAM GUARDRAIL**

(Sheet 4 of 4)

**STANDARD 630001-10**