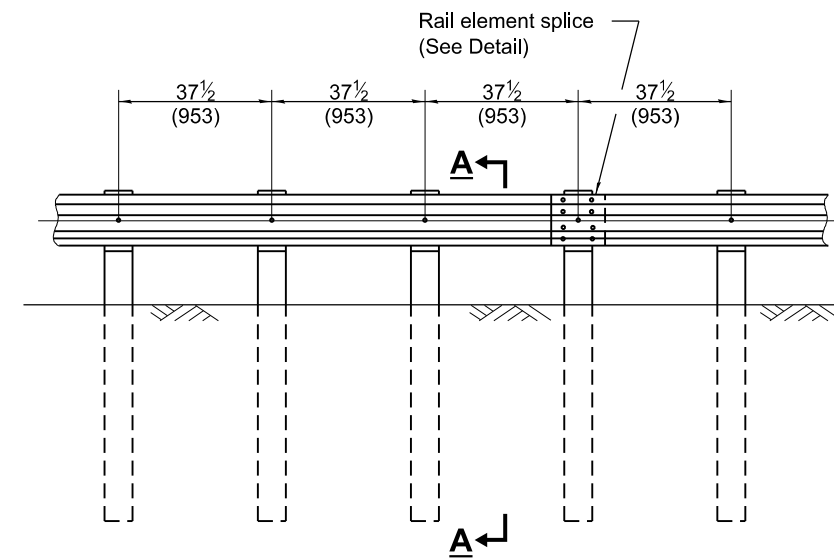


ELEVATION

TYPE A

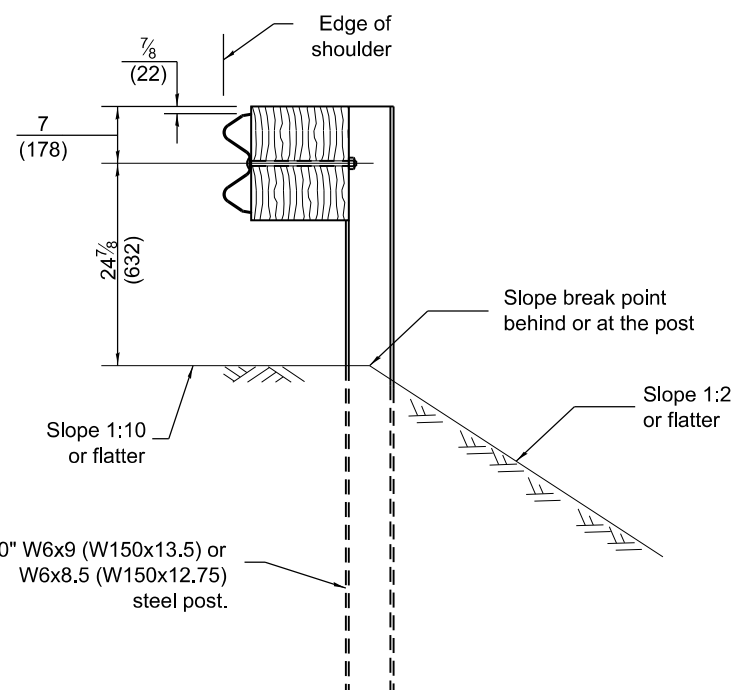
6'-3" (1.905 m) Typical post spacing



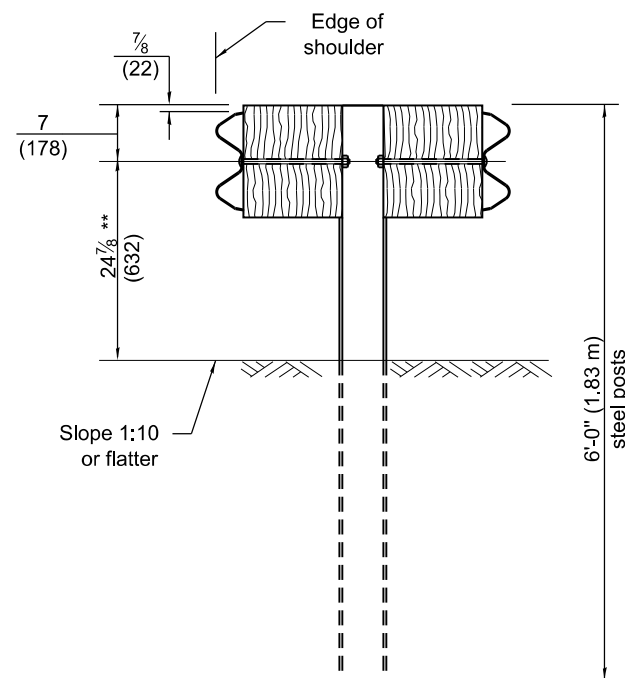
ELEVATION

TYPE B

37 1/2 (953) Closed post spacing

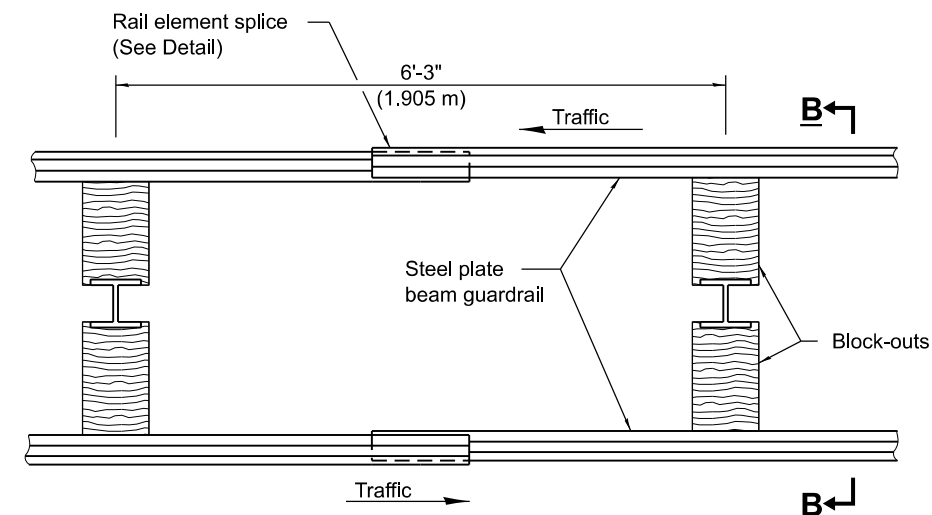


SECTION A-A



SECTION B-B

** When connecting Type D guardrail to an impact attenuator, adjust this dimension to match over a distance of 25'-0" (7.62 m) from point of connection if necessary.



PLAN

TYPE D

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

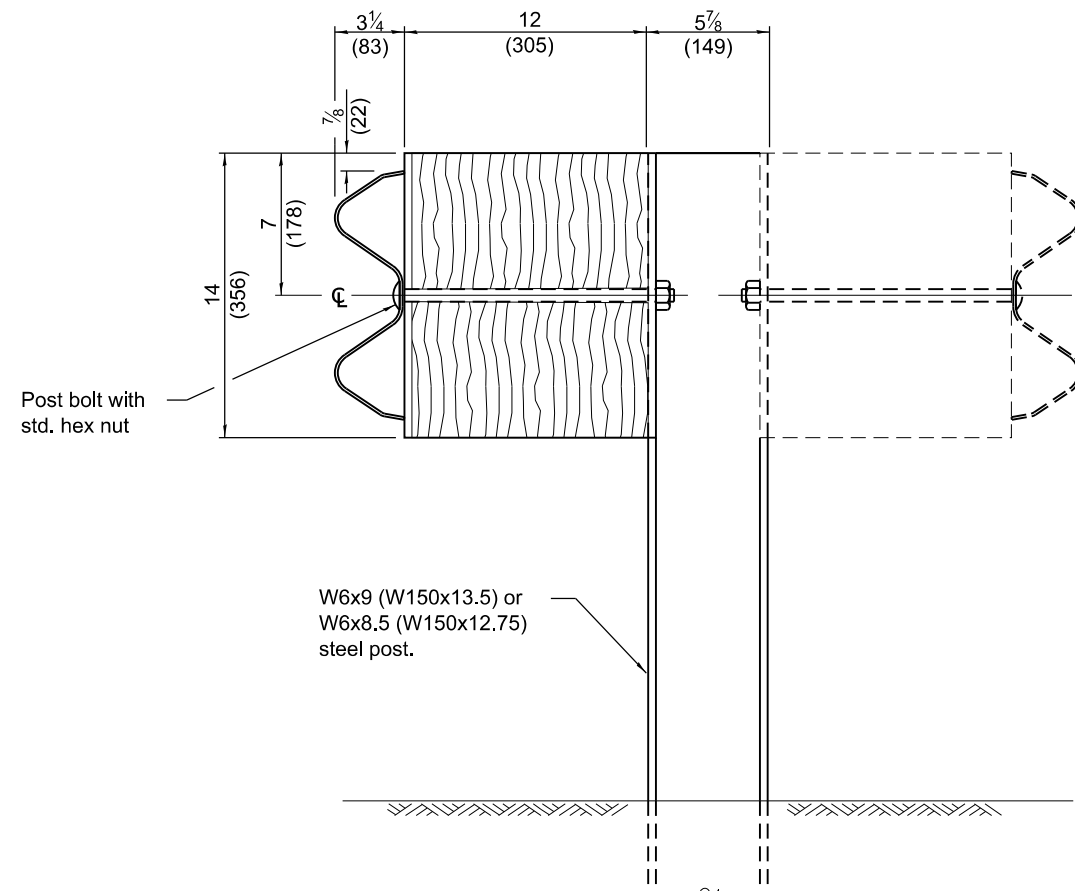
GENERAL NOTES

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

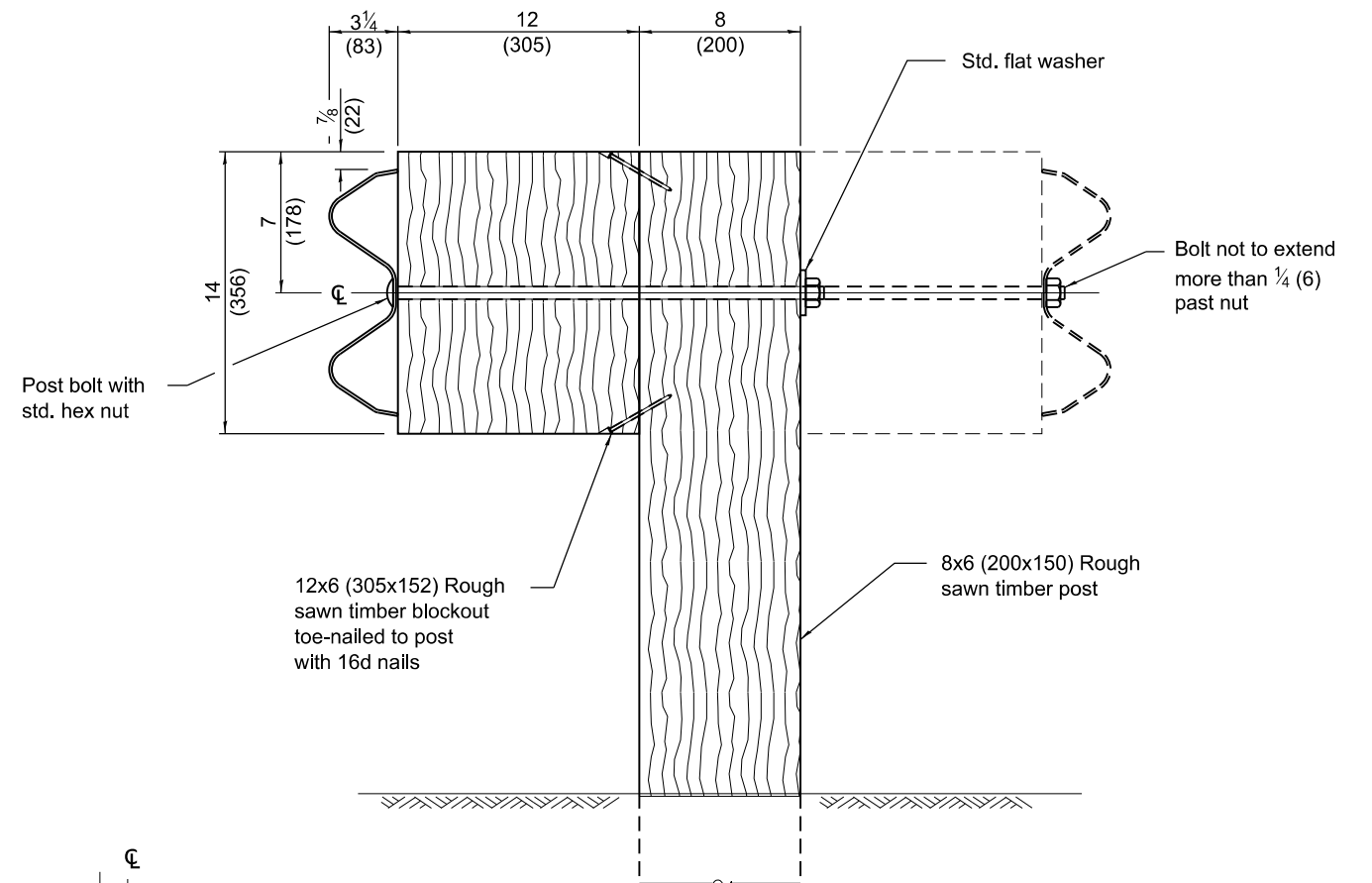
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
APPROVED <u>January 1, 2024</u> 	ISSUED 1-1-97
ENGINEER OF POLICY AND PROCEDURES	
APPROVED <u>January 1, 2024</u> 	
ENGINEER OF DESIGN AND ENVIRONMENT	

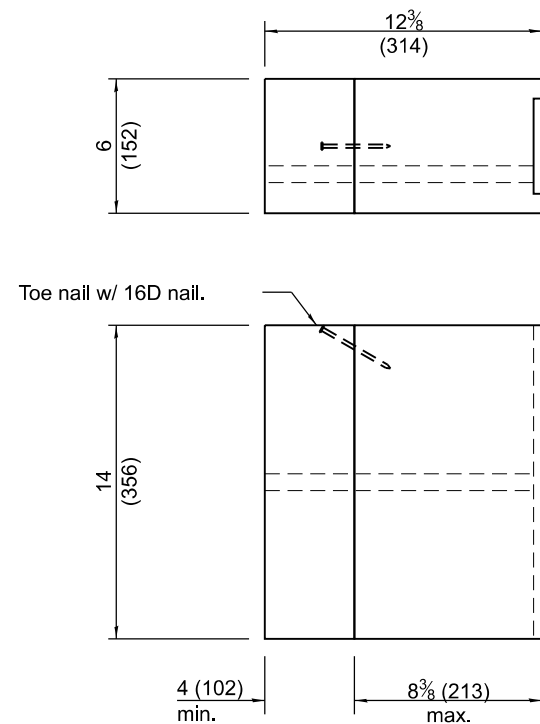
DATE	REVISIONS	STEEL PLATE BEAM GUARDRAIL (Sheet 1 of 4)
1-1-24	Revised Section A-A to allow 6' posts at or behind the slope break point.	
1-1-18	Revised steel post to have four holes in each flange.	
		STANDARD 630001-13



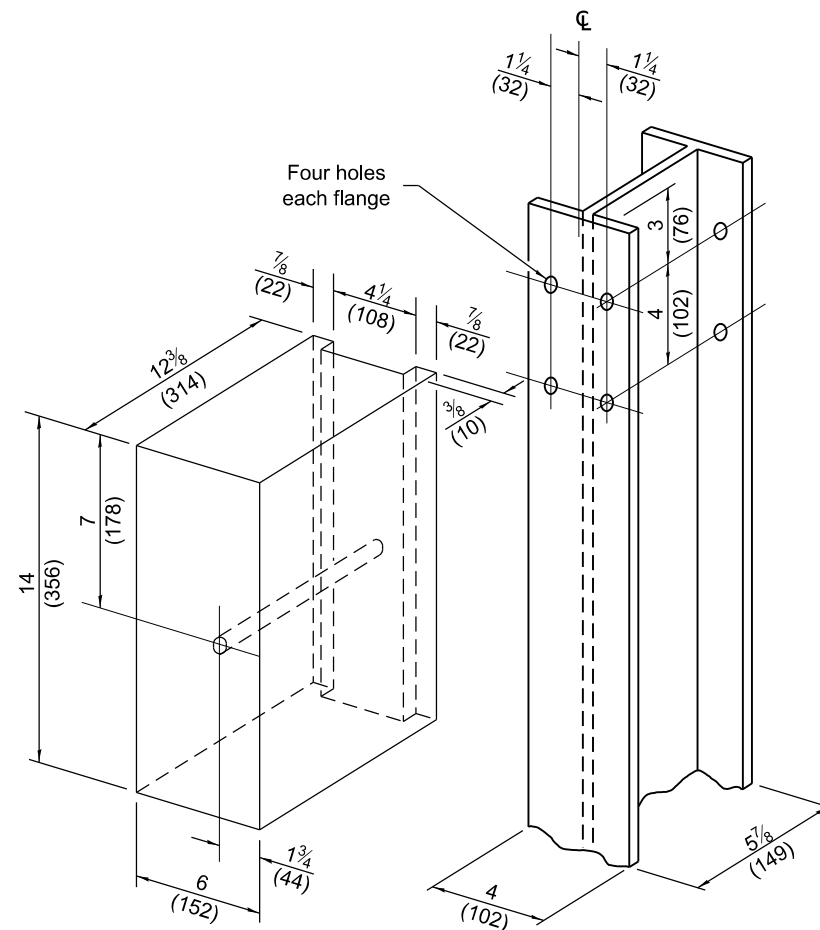
STEEL POST CONSTRUCTION



WOOD POST CONSTRUCTION

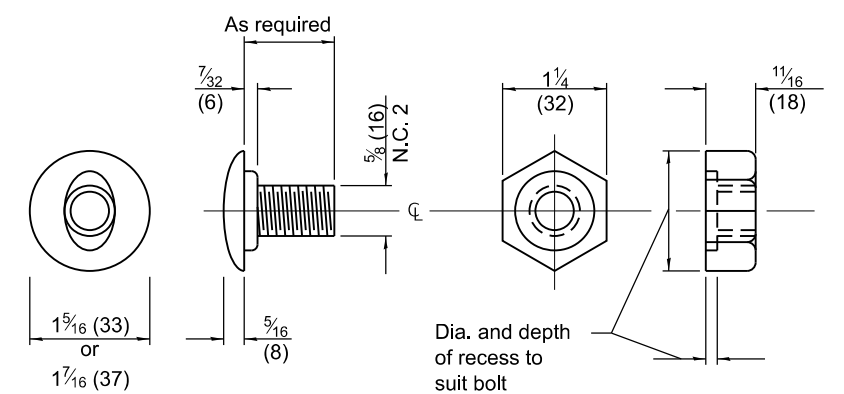


TWO-PIECE WOOD BLOCKOUT OPTION



Note:
All holes $\frac{3}{4}$ (20) dia.

WOOD BLOCK-OUT AND STEEL POST DETAILS

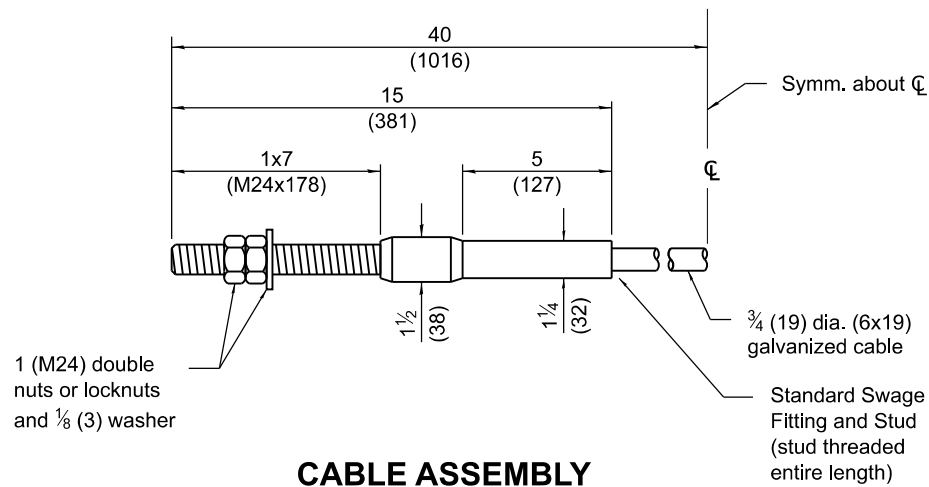


POST OR SPLICE BOLT & NUT

STEEL PLATE BEAM GUARDRAIL

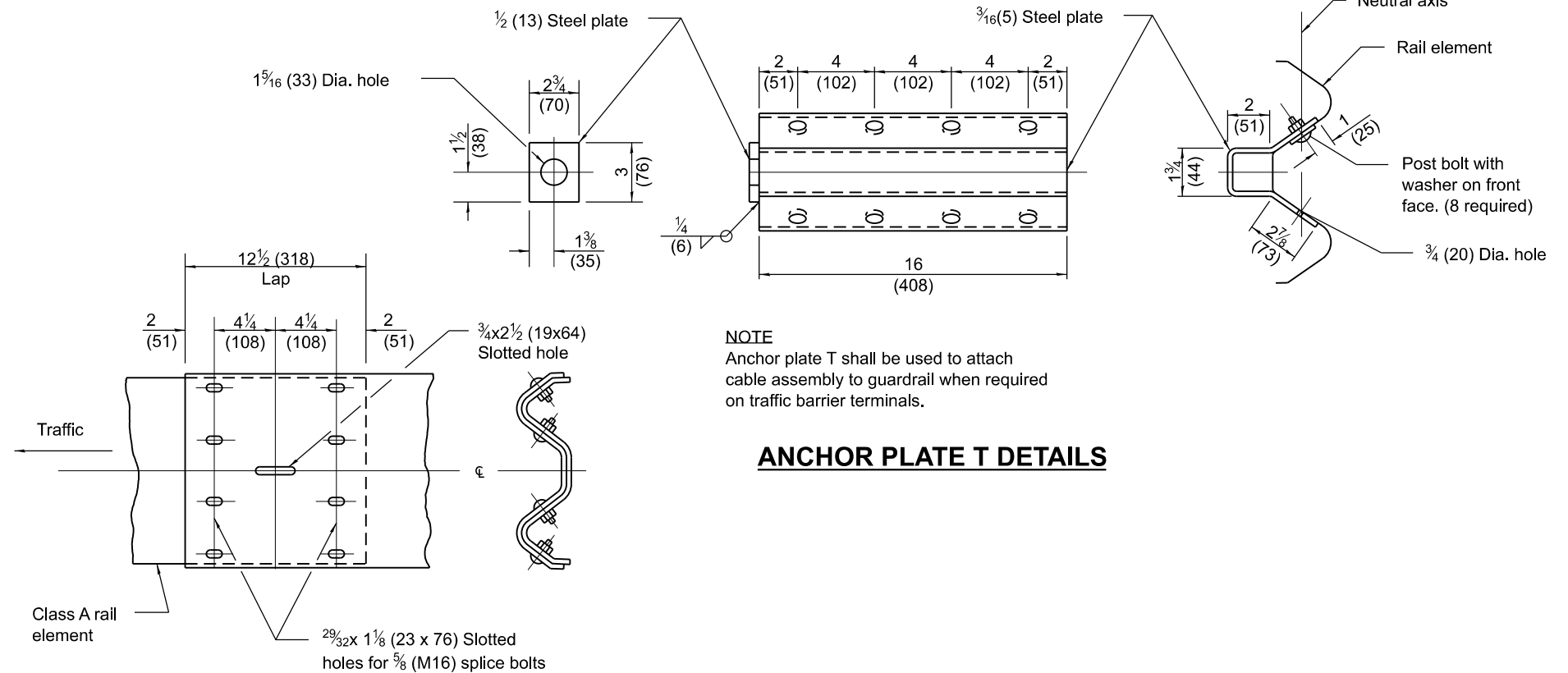
(Sheet 2 of 4)

STANDARD 630001-13

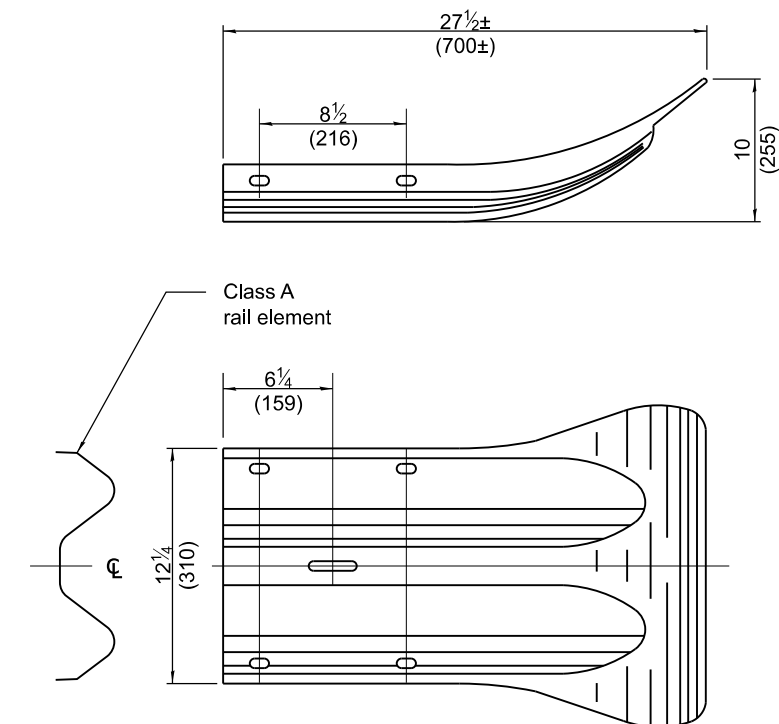


CABLE ASSEMBLY

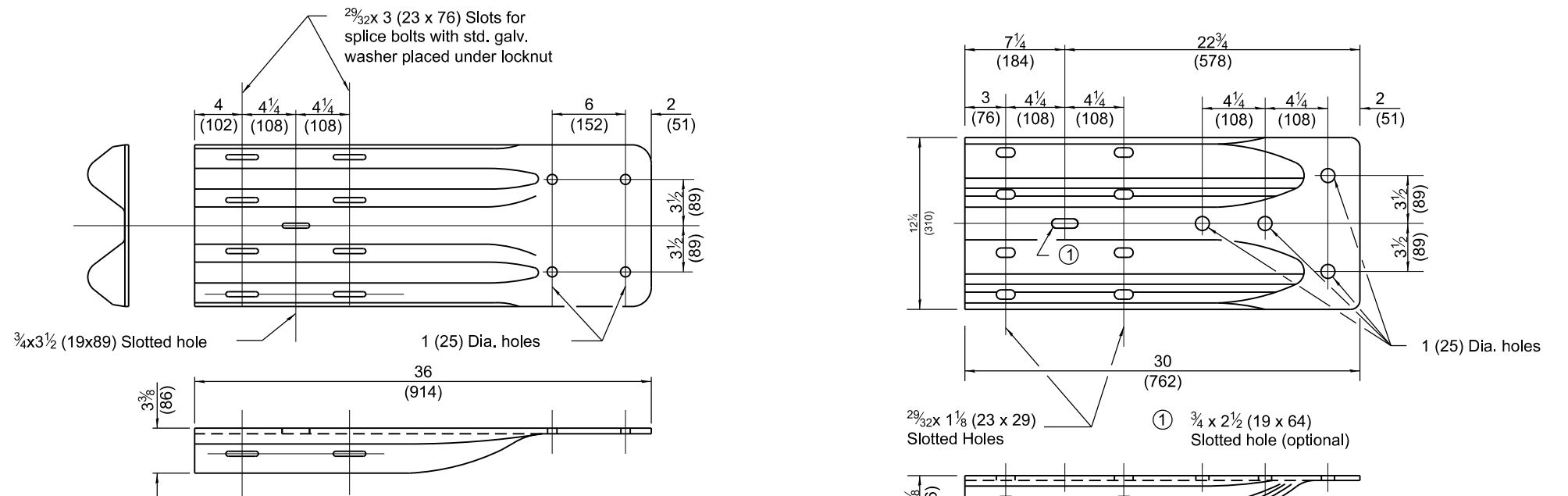
(42,800 lbs. (190 kN) min. breaking strength)
Tighten to taut tension.



RAIL ELEMENT SPLICE



END SECTION



ALTERNATE END SHOE

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.

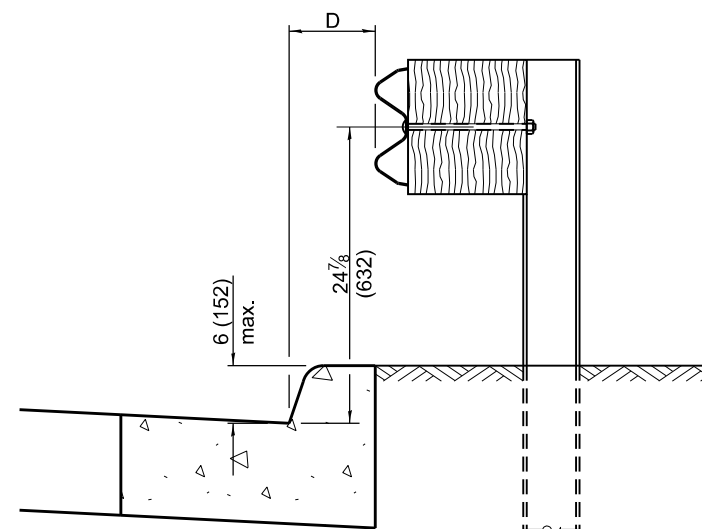
Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE

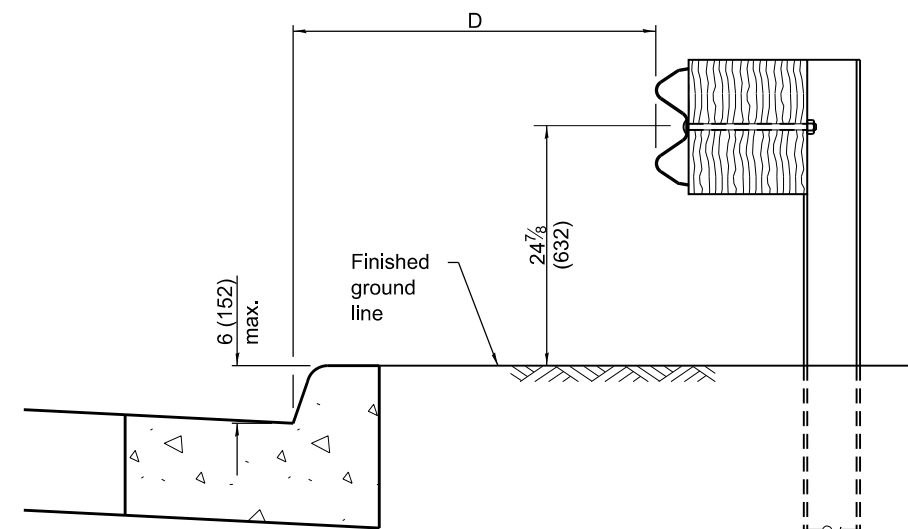
STEEL PLATE BEAM GUARDRAIL

(Sheet 3 of 4)

STANDARD 630001-13



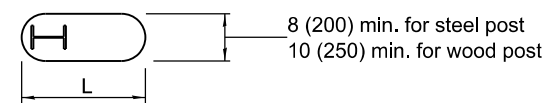
$0 \leq D < 6 (150 \text{ m})$



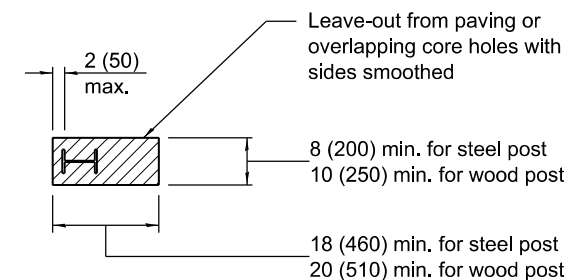
$4'-0'' (1.2 \text{ m}) \leq D \leq 12'-0'' (3.7 \text{ m})$

GUARDRAIL PLACED BEHIND CURB

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

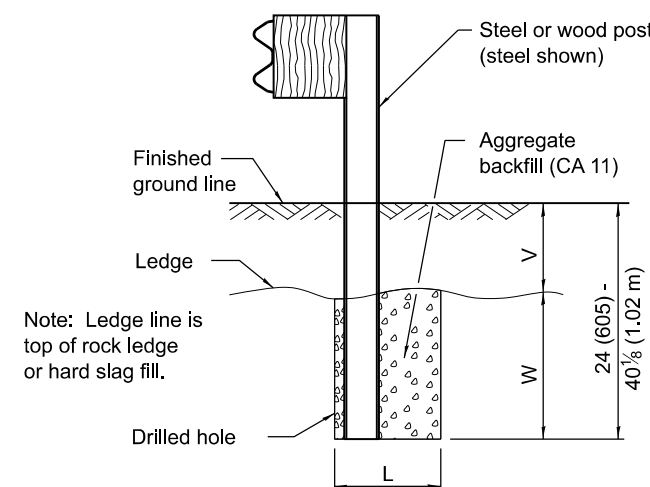


PLAN



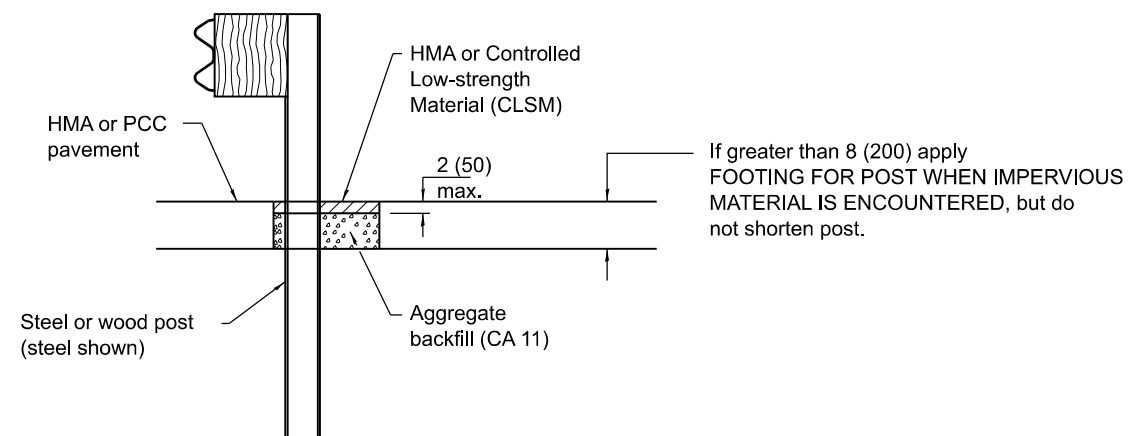
PLAN

V	W	L	
		Steel Post	Wood Post
0 - 6 (0 - 152)	24 (610)	21 (530)	23 (580)
> 6 - 18 (> 152 - 458)	18 (458)	14½ (368)	16½ (419)
> 18 - 31 (> 458 - 787)	12 (305)	8 (203)	10 (250)
> 31 - 40½ (> 787 - 1.02 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS
MATERIAL IS ENCOUNTERED



ELEVATION

LEAVE-OUT FOR POST WHEN PAVED
MATERIAL IS ENCOUNTERED

**STEEL PLATE BEAM
GUARDRAIL**

(Sheet 4 of 4)

STANDARD 630001-13