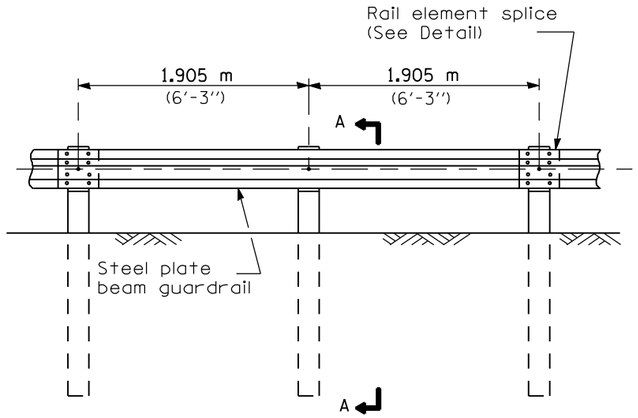
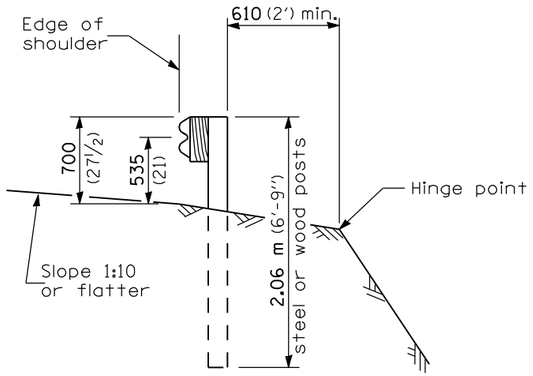


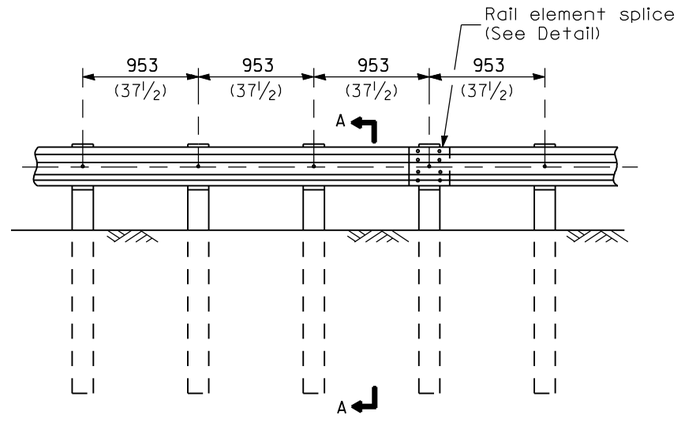

ELEVATION

## TYPE A

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



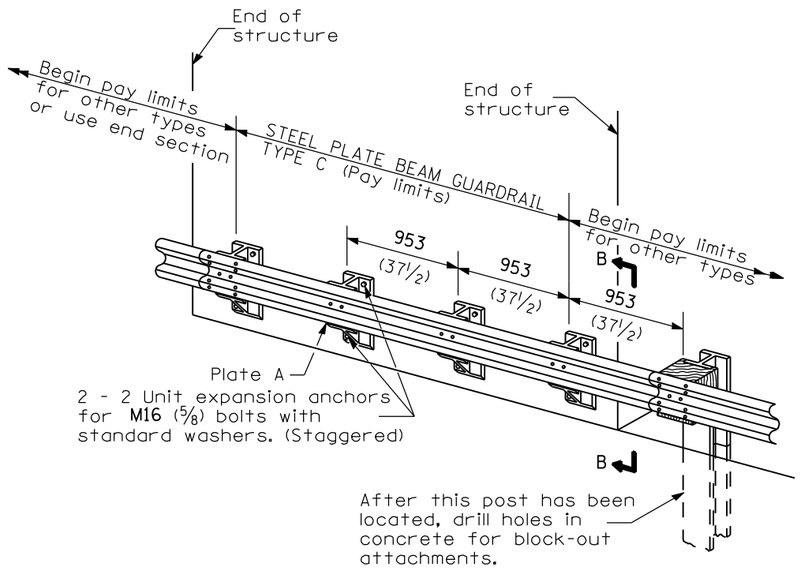

SECTION A-A




ELEVATION

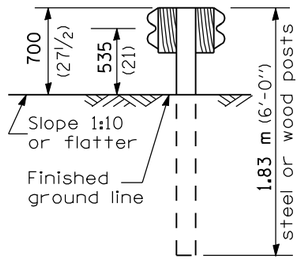
## TYPE B

**953** (37½) Closed post spacing

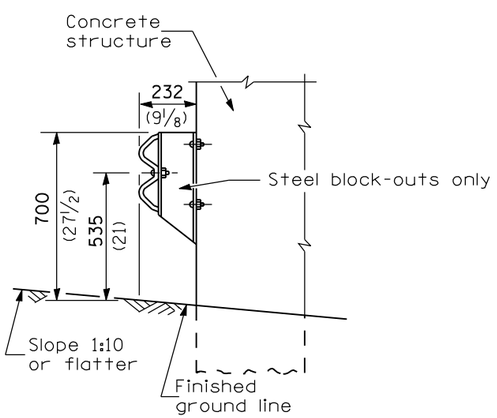



## TYPE C

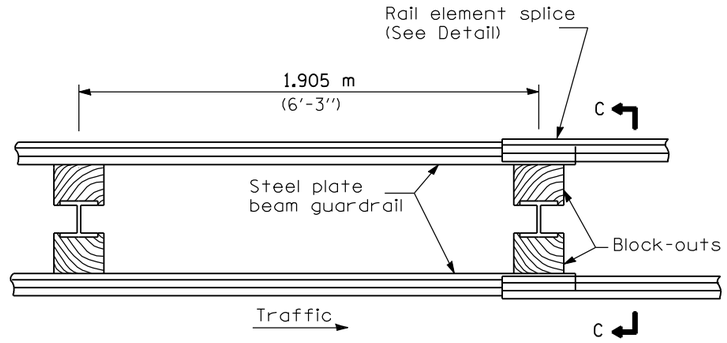
**953** (37½) Block-out spacing




SECTION C-C




SECTION B-B




PLAN

## TYPE D

Double steel plate beam guardrail
**1.905 m** (6'-3") 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 millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2008
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

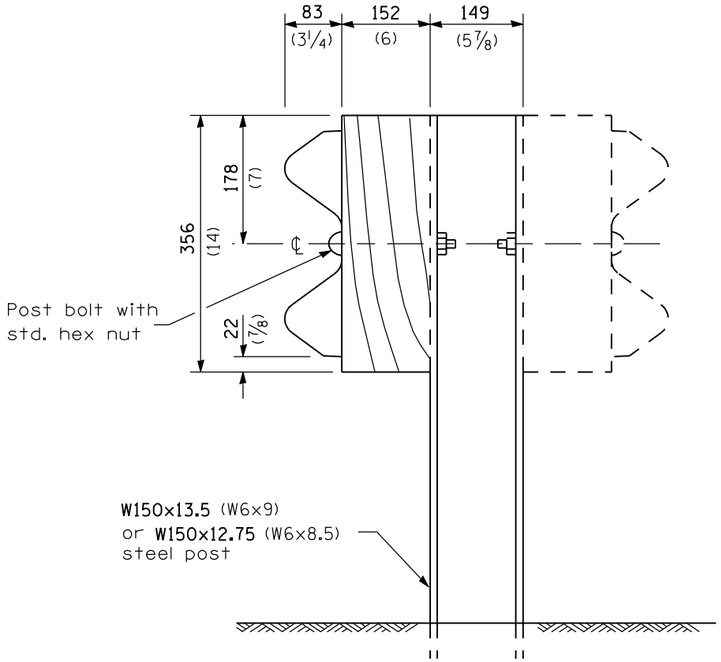
ISSUED 1-1-08

| DATE | REVISIONS |
|---|---|
| 1-1-08 | New Standard. |
| | Was Std. 630001 prior |
| | to January 1, 2007. |
| | |
| | |
| | |

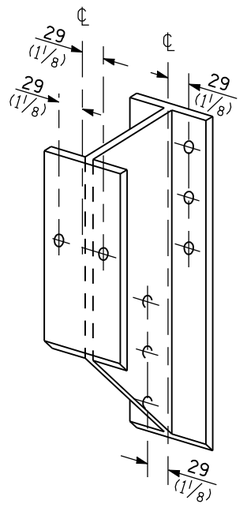
# STEEL PLATE BEAM GUARDRAIL
# 700mm (27½") HEIGHT

(Sheet 1 of 4)

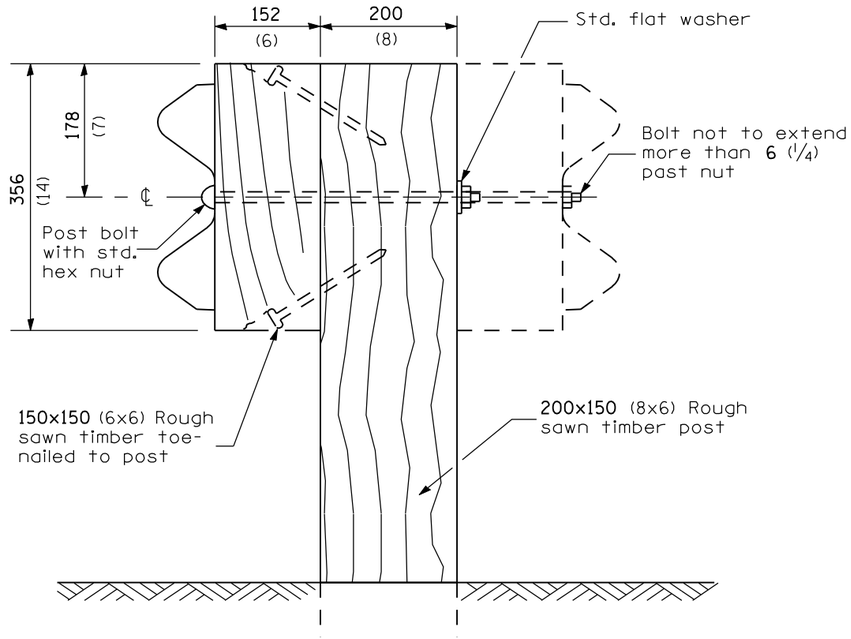
**STANDARD B.L.R. 26**



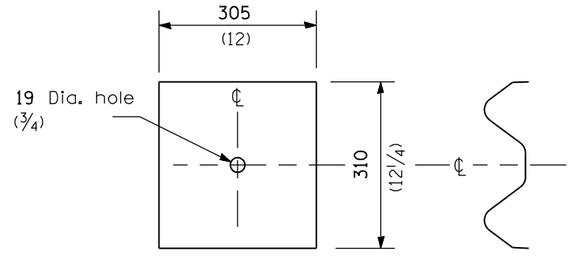

## STEEL POST CONSTRUCTION




## STEEL BLOCK-OUT DETAIL



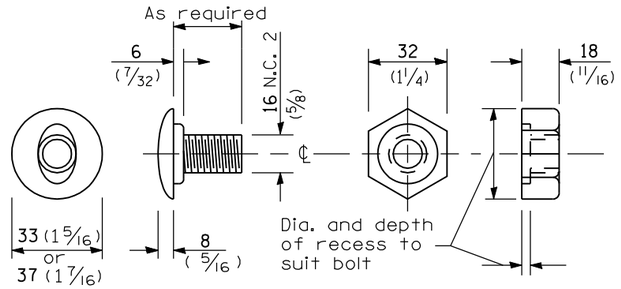

## WOOD POST CONSTRUCTION




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

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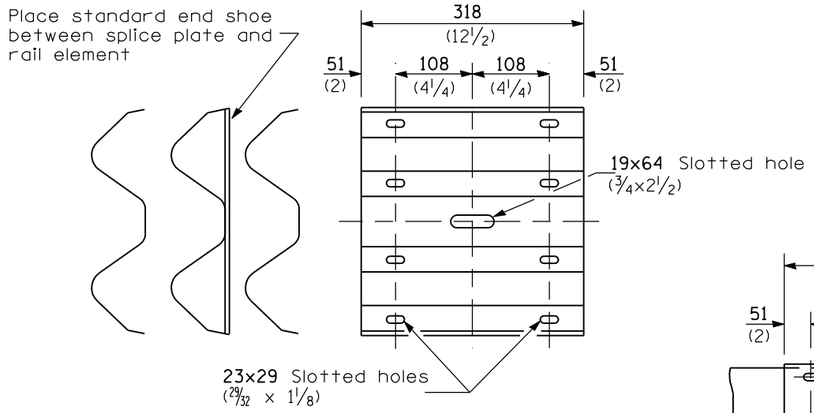
ISSUED 1-1-08

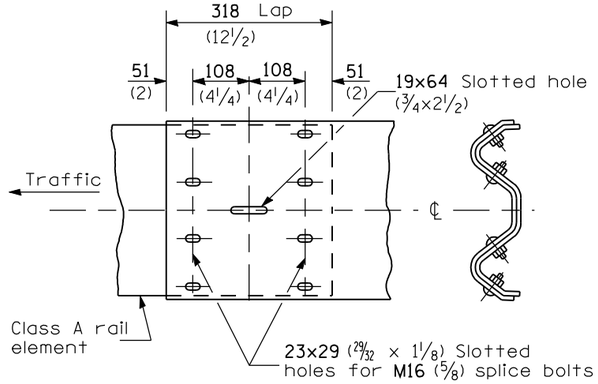
# STEEL PLATE BEAM GUARDRAIL 700mm (27½") HEIGHT

(Sheet 2 of 4)

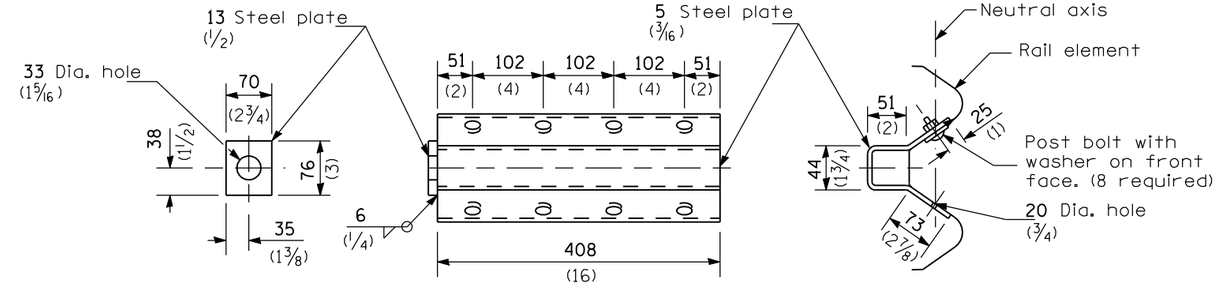
**STANDARD B.L.R. 26**




## SPLICE PLATE



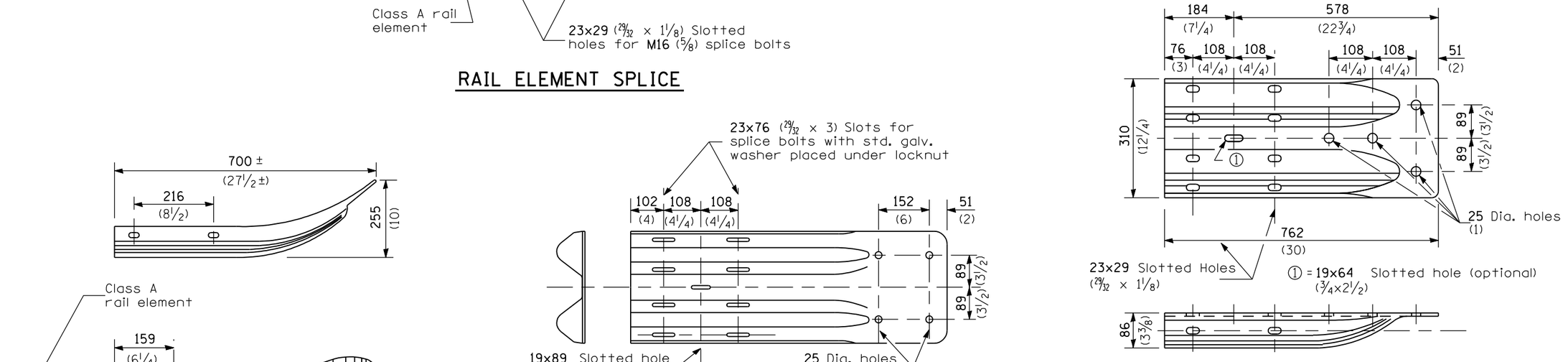

## RAIL ELEMENT SPLICE




NOTE

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

## ANCHOR PLATE T DETAILS




## 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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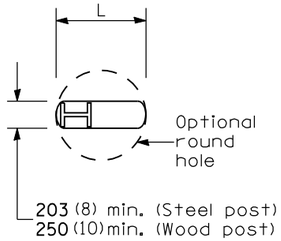
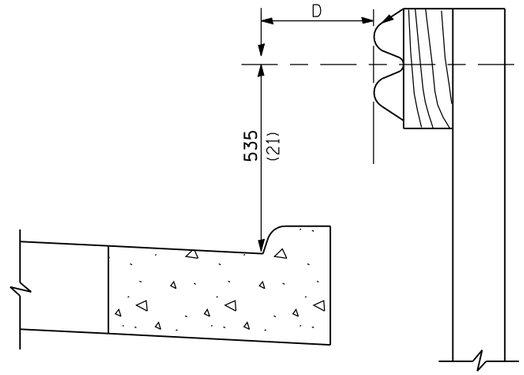
# STEEL PLATE BEAM GUARDRAIL 700mm (27 1/2") HEIGHT



**STANDARD B.L.R. 26**



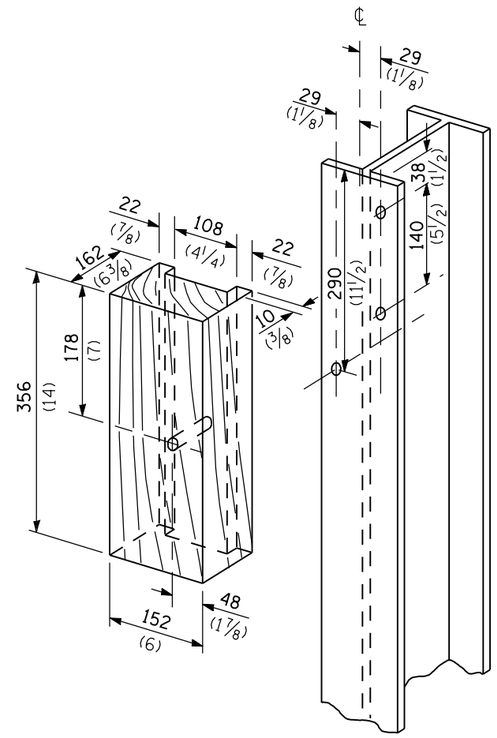

PLAN



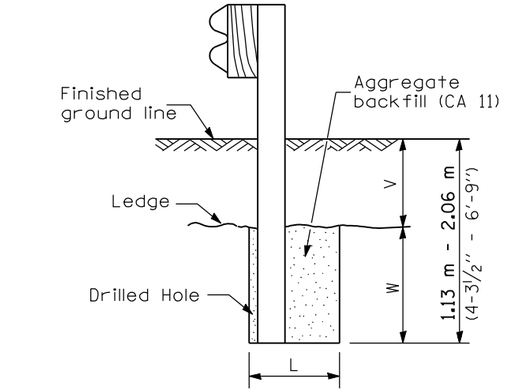

Note:
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

## GUARDRAIL PLACED BEHIND CURB

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




## WOOD BLOCK-OUT AND STEEL POST DETAILS

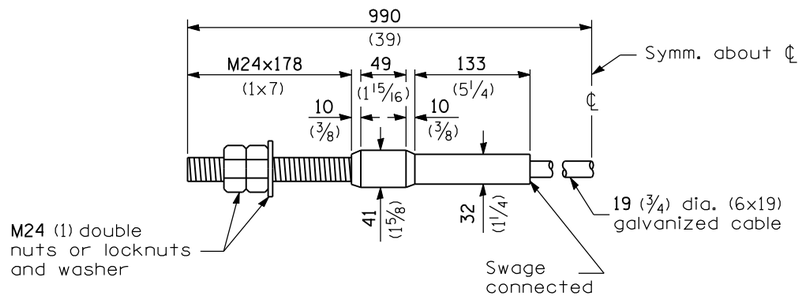



Note:
Ledge line is top of rock ledge or hard slag fill.

## ELEVATION

## FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

| 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) |




## CABLE ASSEMBLY

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

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APPROVED January 1. 2008
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APPROVED January 1. 2008
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# STEEL PLATE BEAM GUARDRAIL 700mm (27 1/2") HEIGHT

(Sheet 4 of 4)

**STANDARD B.L.R. 26**