



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 20, 2007

SUBJECT: TR 110

Project BROS-127(12)
Section 83-01171-00-BR
Massac County
Contract No. 99282
Item 112
March 9, 2007 Letting
Addendum (A)

TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

Proposal – Added LR SD 630 and revised LR SD 631.

Plans – Sheet 1, removed Highway Standard 631026-03.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Eric Harm
Interim Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger" followed by a small "DE" monogram.

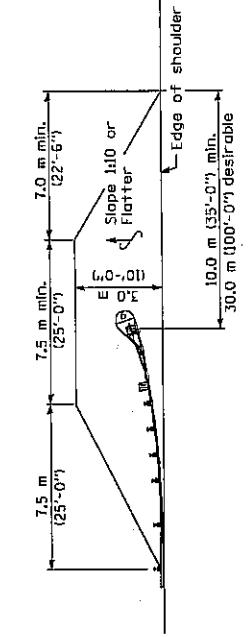
By: Ted B. Walschleger
Engineer of Project Development
and Implementation

INDEX LOCAL ROADS AND STREETS SPECIAL PROVISIONS

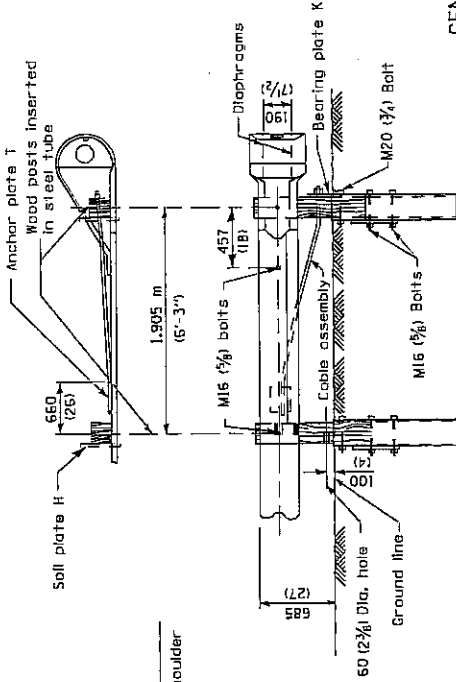
LR#	Title (Effective Date) (Revision Date)	Page #
LR SD 12	"Slab Movement Detection Device" (Eff. 11/1/84) (Rev. 1/1/07)	
LR SD 13	"Required Cold Milled Surface Texture" (Eff. 11/1/87) (Rev. 1/1/07)	
LR SD 630 X	"Steel Plate Beam Guardrail" (Eff. 2/1/07). Developed to allow local agencies to continue to use 27" guardrail with 6 inch blockouts.	51
LR SD 631 X	"Traffic Barrier Terminals" (Rev. 2/1/07). Developed to keep Traffic Barrier Terminals Type 1, 2 & 5A as an option for local agencies to use with 27" guardrail with 6 inch blockouts.	15
LR SD 633	"Remove and Reerect Steel Plate Beam Guardrail" (Eff. 2/1/07). Developed to allow local agencies to replace 27" guardrail with 6 inch blockouts.	
LR 102	"Protests on Local Lettings" (Eff. 1/1/07). Developed to allow local agencies to adopt the department's interested party protest procedures outlined in Title 44 of the IL Administrative Code.	
LR 105 X	"Cooperation with Utilities" (Eff 1/1/99) (Rev 1/1/07). Formerly issued as LRS 1 and was reissued as an LR Contract Special Provision based on industry concerns discussed at the Joint Coop.	16
LR 107-1 X	"Nationwide Permit No. 14" (Eff. 2/1/04) (Rev. 3/1/05). Developed to outline the necessary requirements to comply with No. 14 permits.	19
LR 107-2	"Railroad Protective Liability Insurance for Local Lettings" (Eff. 3/1/05) (Rev 1/1/06). Developed to require insurance policies to be submitted to the letting agency rather than the department.	
LR 107-3	"Disadvantaged Business Enterprise Participation" (Eff. 1/1/07). Developed to require DBE utilization plans to be submitted to the local agency.	
LR 107-4	"Insurance" (Eff. 2/1/07). Developed based on recommendations from IACE Policy Committee to ensure local agencies are indemnified when their projects are on the state letting.	
LR 108	"Combination Bids (Eff. 1/1/94) (Rev. 3/1/05). Developed to allow the revision of working days and calendar days. Revised to incorporate applicable portions of deleted Sections 102 & 103.	
LR 212	"Shaping Roadway" (Eff. 8/1/69) (Rev. 1/1/02)	
LR 355-1	"Asphalt Stabilized Base Course, Road Mix or Traveling Plant Mix" (Eff. 10/1/73) (Rev. 1/1/07)	
LR 355-2	"Asphalt Stabilized Base Course, Plant Mix" (Eff. 2/20/63) (Rev. 1/1/07)	
LR 400	"Bituminous Treated Earth Surface (Eff. 1/1/07). Developed since Section 401 was eliminated from the 2007 Standard Specifications.	
LR 402	"Salt Stabilized Surface Course" (Eff. 2/20/63) (Rev. 1/1/07)	
LR 403-2	Bituminous Hot Mix Sand Seal Coat" (Eff. 8/1/69) (Rev. 1/1/07)	
LR 420	"PCC Pavement (Special)" (Eff. 5/12/64) (Rev. 1/1/07). Developed to allow local agencies to construct quality PCC pavements for low volume roads.	
LR 442	"Bituminous Patching Mixtures for Maintenance Use" (Eff 1/1/04) (Rev. 2/1/07). Developed to reference approved bituminous patching mixtures.	
LR 451	"Crack Filling Bituminous Pavement with Fiber-Asphalt" (Eff. 10/1/91) (Rev. 1/1/07)	
LR 503-1	"Furnishing Class SI Concrete" (Eff. 10/1/73) (Rev. 1/1/02)	
LR 503-2	"Furnishing Class SI Concrete (Short Load)" (Eff. 1/1/89) (Rev. 1/1/02). Developed to allow a load charge to be added when short loads are expected during the contract.	
LR 542	"Pipe Culverts, Type _____ (Furnished)" (Eff. 9/1/64) (Rev. 1/1/07)	
LR 663	"Calcium Chloride Applied" (Eff. 6/1/58) (Rev. 1/1/07)	
LR 702 X	"Construction and Maintenance Signs" (Eff 1/1/04) (Rev 1/1/07). Developed to require florescent orange sheeting and a minimum sign size of 48" X 48" on construction and maintenance signs.	26
LR 1004	"Coarse Aggregate for Bituminous Surface Treatment" (Eff. 1/1/02) (Rev 1/1/07). Developed to provide a coarser mix when aggregate producers have adjusted the CA-16 gradation according to the Aggregate Gradation Control System (AGCS) to a finer mix for Hot-Mix Asphalt.	
LR 1013	"Rock Salt (Sodium Chloride)" (Eff. 8/1/69) (Rev. 1/1/02)	
LR 1032-1	"Penetrating Emulsions" (Eff. 1/1/07) (Rev. 2/1/07). Developed to combine Penetrating Emulsified Asphalt and Penetrating Emulsified Prime into a single special provision.	
LR 1032-2	"Multigrade Cold Mix Asphalt" (Eff. 1/1/07) (Rev. 2/1/07). Developed to provide the material specification for Multigrade cold mix asphalt.	
LR 1102	"Road Mix or Traveling Plan Mix Equipment" (Eff. 1/1/07). Developed to replace road mix and traveling plant mix bituminous equipment that was eliminated from the Standard Specifications.	

Revised 2-20-07

Post	X (ft)	Y (ft)
①	11.345 (37.22)	1.22 (4.0)
②	9.475 (31.09)	0.950 (2.79)
③	7.595 (24.92)	0.545 (1.79)
④	6.335 (20.79)	0.380 (1.25)
⑤	5.070 (16.84)	0.265 (0.80)
⑥	3.805 (12.49)	0.135 (0.45)
⑦	1.905 (6.25)	0.035 (0.11)
⑧	0 (0.00)	0 (0.00)



SHOULDER WIDENING TRANSITION



WOOD BREAKAWAY POSTS
TUBULAR STEEL FOUNDATIONS

GENERAL NOTES
See Standard 530001 for details of guardrail not shown.

Posts at location 1 & 2 shall be wood breakaway posts. Posts other than 1 & 2 may be either standard wood posts or steel posts, at the option of the Contractor. If standard wood posts are used, one post shall be located midway between and in lieu of posts 4 & 5. The offset (Y) for this post shall be 300 mm (12 inches).

A two-piece assembly may be substituted for the one piece nose shown above.

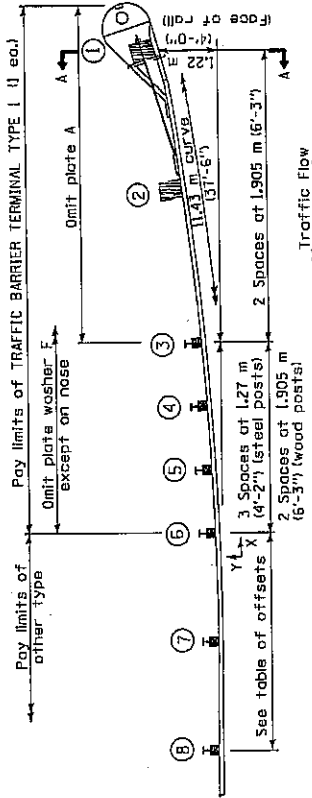
Guardrail height transition shall be payed for as Steel Plate Beam Guardrail.

The bearing plate K shall be held in position by (2) two eightpenny nails driven into the post and bent over the top of the plate.

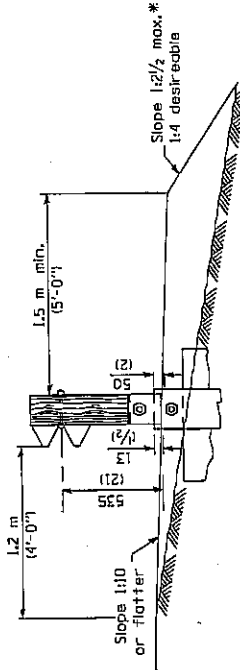
Higher guardrail shall transition down to the 685 mm (27 inches) height of the Traffic Barrier Terminal Type 1.

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.



PLAN



SECTION A-A

* If fill height exceeds 1.5 m (5'-0") use 1:3 max.

TRAFFIC BARRIER
TERMINAL

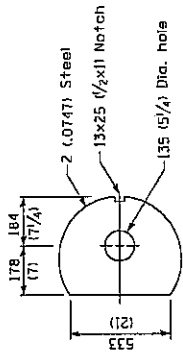
(Sheet 1 of 4)

Effective 1/1/07
Revised 2/1/07

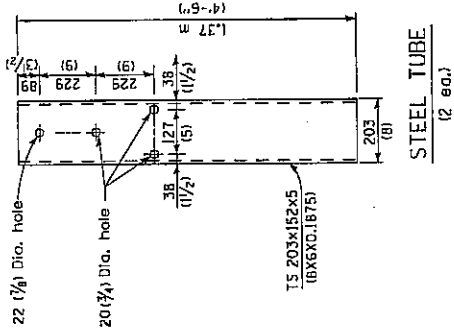
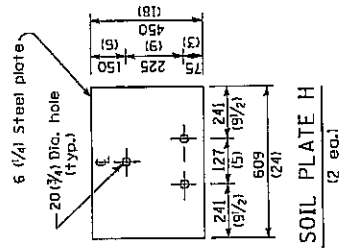
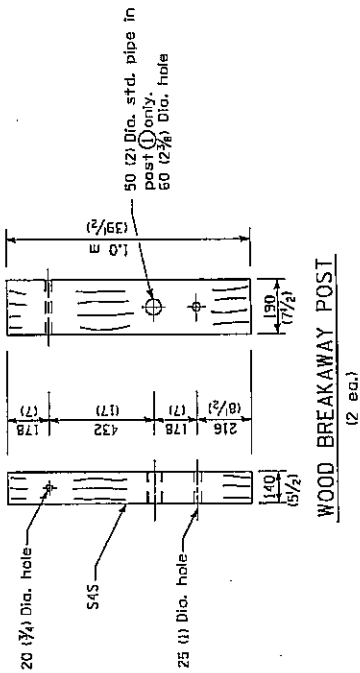
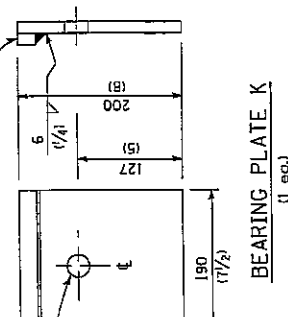
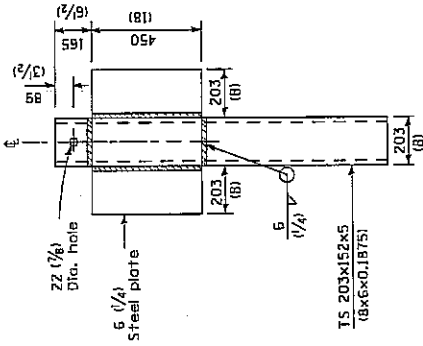
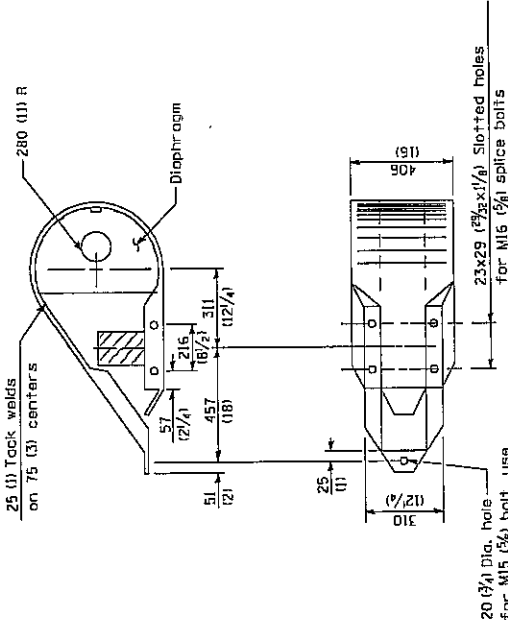
LR SD 631

Revised 2.20.07

TYPE 1



DIAPHRAGM
(2 ea.)



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

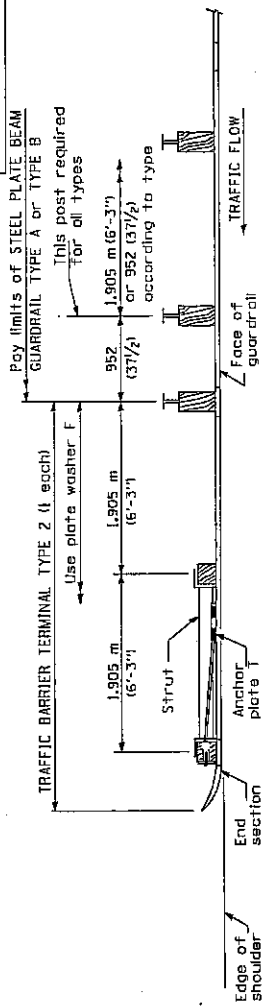
TRAFFIC BARRIER TERMINAL

LR SD 631

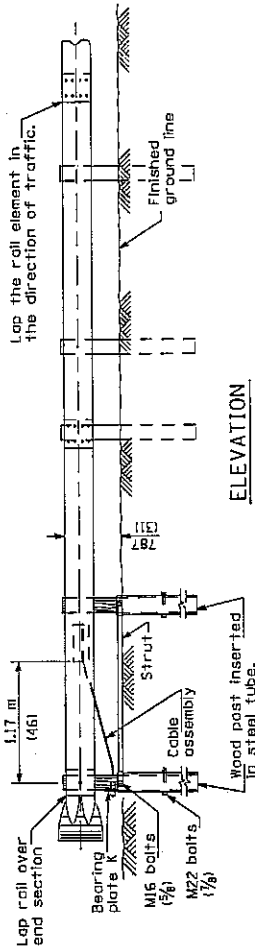
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Effective 1/1/07
Revised 2/1/07

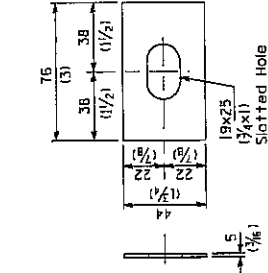
TYPE 2



PLAN



ELEVATION

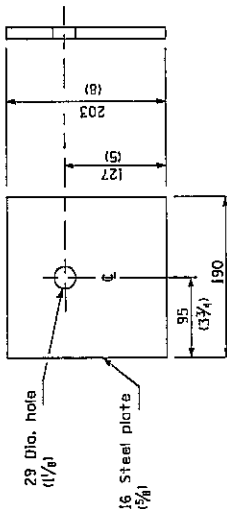
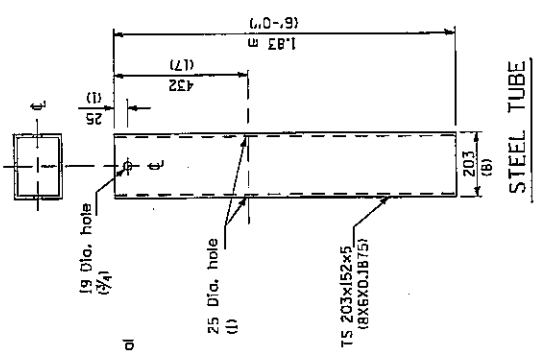


GENERAL NOTES

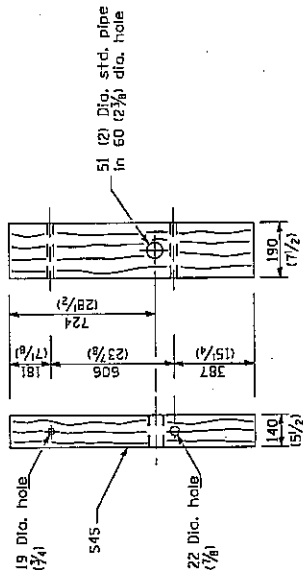
See Standard 530001 for details of guardrail not shown.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

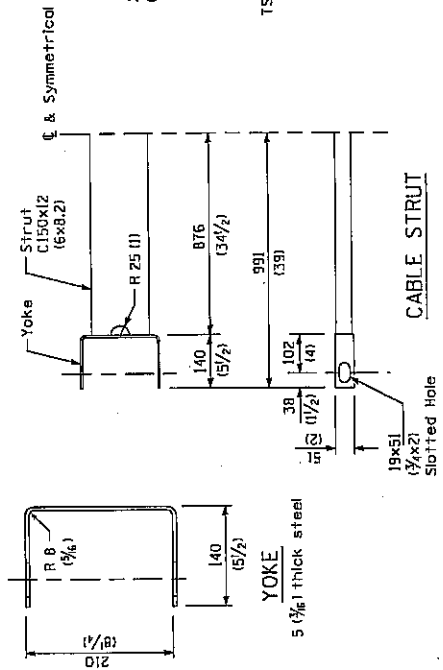
All dimensions are in millimeters (inches) unless otherwise shown.



BEARING PLATE K



WOOD POST

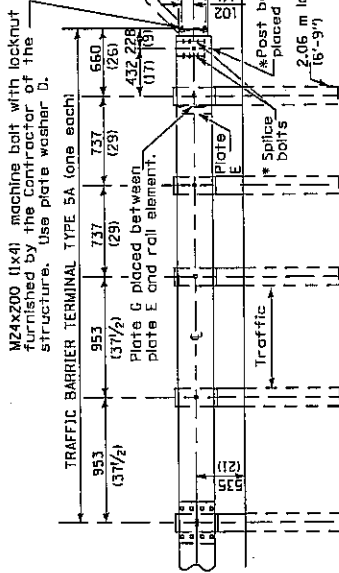


TRAFFIC BARRIER TERMINAL

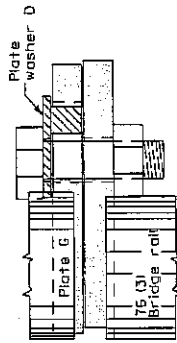
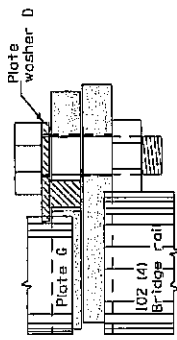
(Sheet 3 of 4)

LR SD 631

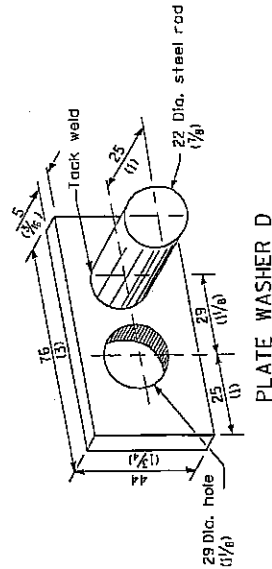
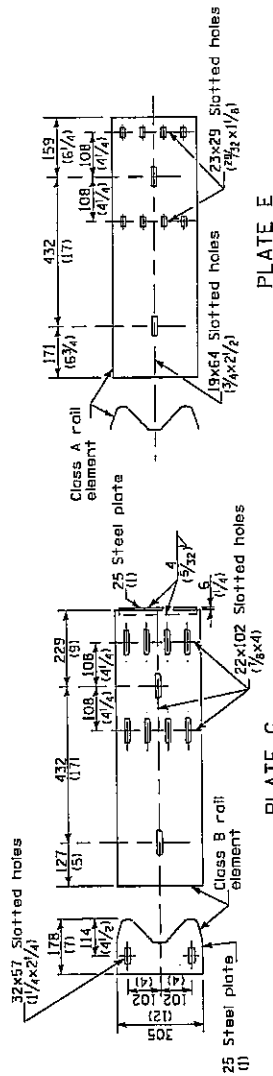
Effective 1/1/07
 Revised 2/1/07



PLACEMENT OF PLATE WASHER D (PLAN)



TYPE 5A - STEEL BRIDGE RAIL



GENERAL NOTES

Install plate washer D so that the 25 mm (1") projection fills the remainder of the slotted holes in the 25 mm (1") end plate on plate G after the M24 (1") dia. bolts are in place.

Bolts shall be provided with locknut or double nut and shall be tightened only to a point that will allow plate G to be free to move when an expansion joint exists below the connector.

Higher guardrail shall transition down to the 685 mm (27 inches) height of the Traffic Barrier Terminal Type 5A.

Guardrail height transition shall be payed for as Steel Plate Beam Guardrail.

The face of the guardrail shall be installed flush with the face of the bridge rail. See Standard 630001 for details of guardrail not shown.

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

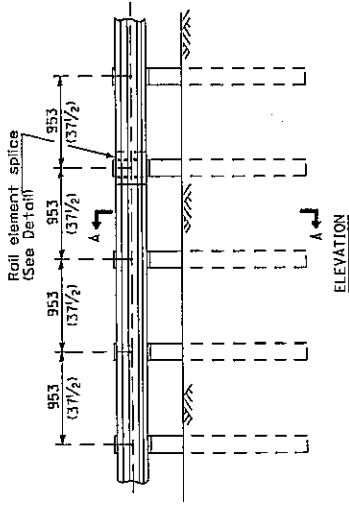
TRAFFIC BARRIER TERMINAL

(Sheet 4 of 4)

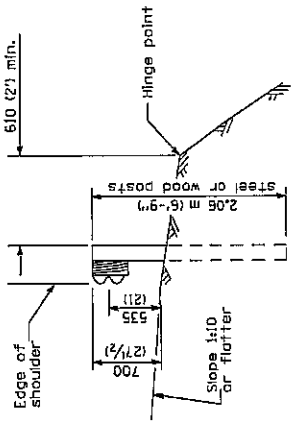
LR SD 631

Effective 1/1/07
Revised 2/1/07

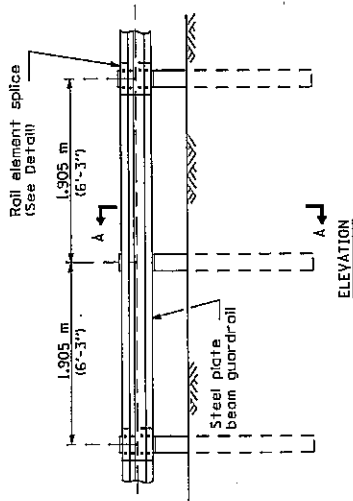
15c.



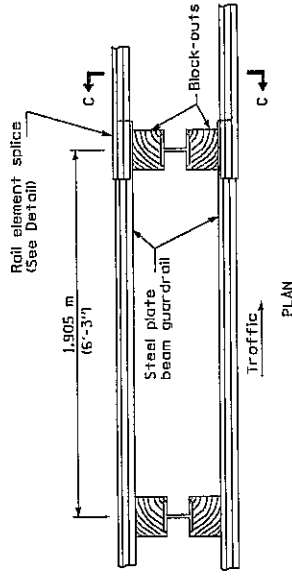
TYPE B
953 (37 1/2) Closed post spacing



SECTION A-A



TYPE A
1,905 m (6'-3") Typical post spacing

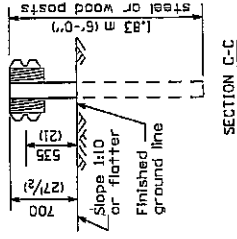


PLAN

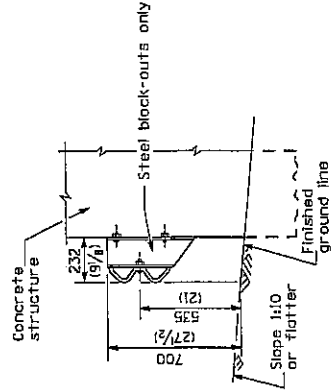
TYPE D
Double steel plate beam guardrail
1,905 m (6'-3") typical post spacing

GENERAL NOTES

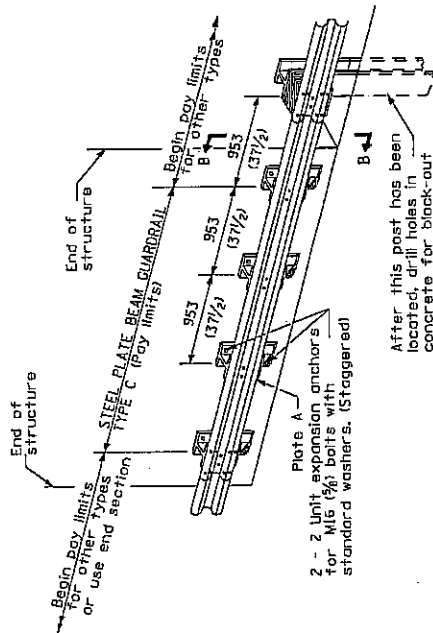
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in millimeters (inches) unless otherwise shown.
- The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.



SECTION C-C



SECTION B-B

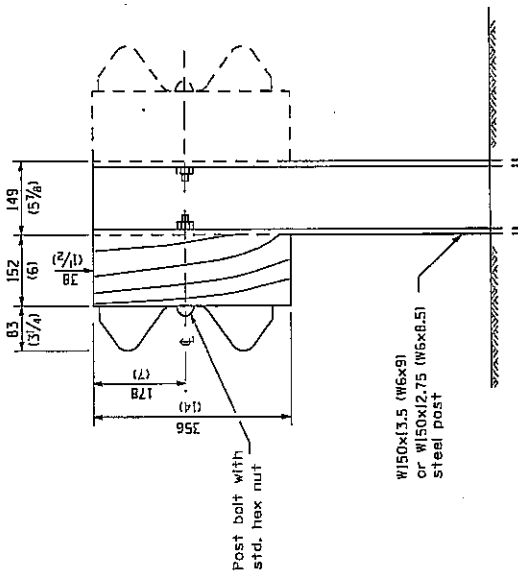


TYPE C
953 (37 1/2) Block-out spacing

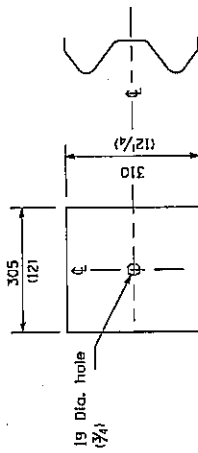
2 - 2 Unit expansion anchors for M16 (5/8) bolts with standard washers, (staggered)

After this post has been located, drill holes in concrete for block-out attachments.

Added 2.20.07



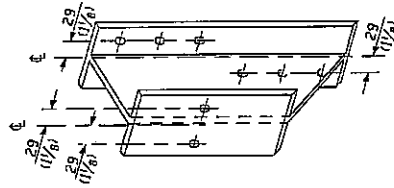
STEEL POST CONSTRUCTION



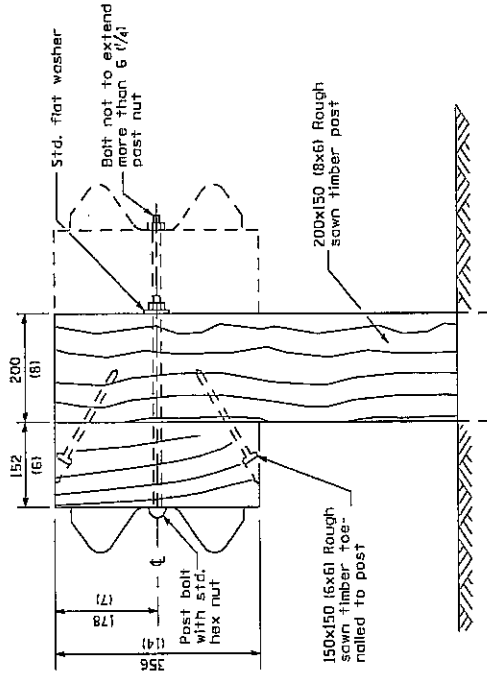
NOTE

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

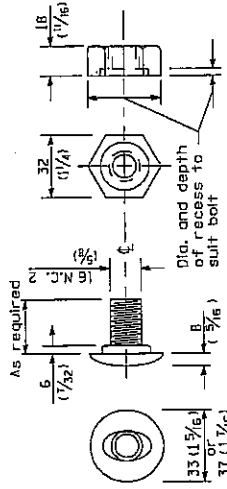
PLATE A



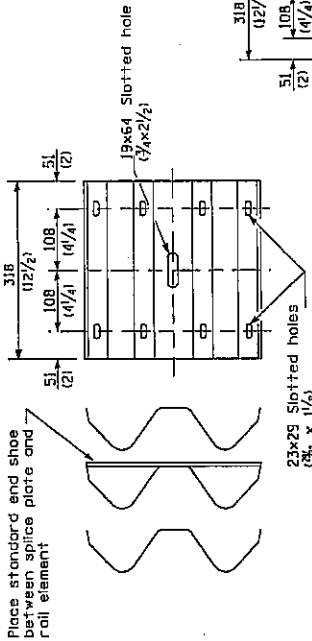
STEEL BLOCK-OUT DETAIL



WOOD POST CONSTRUCTION

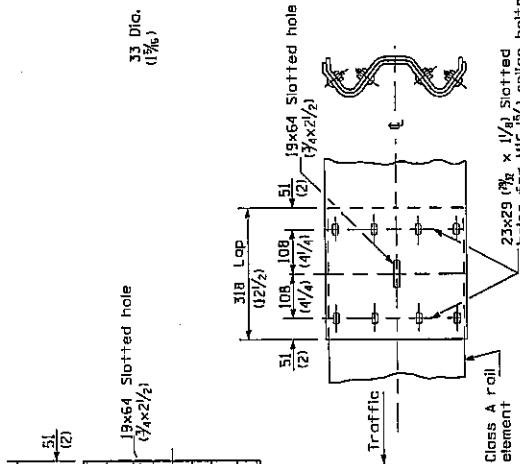


POST OR SPLICE BOLT & NUT



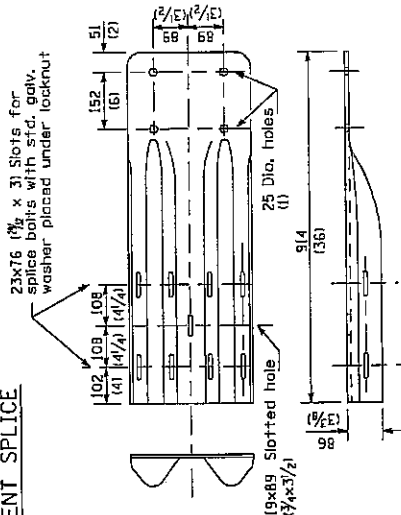
SPLICE PLATE

23x29 (7/8 x 1 1/8) Slotted holes (2)



23x29 (7/8 x 1 1/8) Slotted holes for M16 (5/8) splice bolts

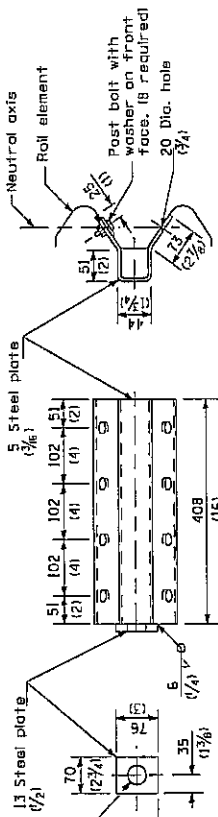
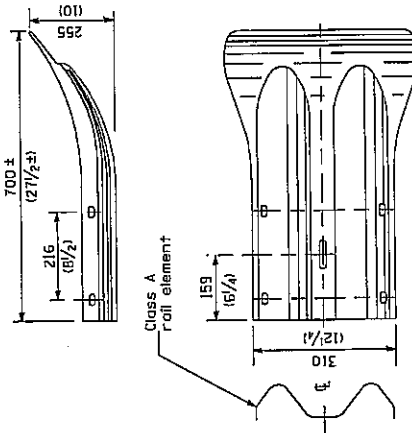
RAIL ELEMENT SPLICE



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.

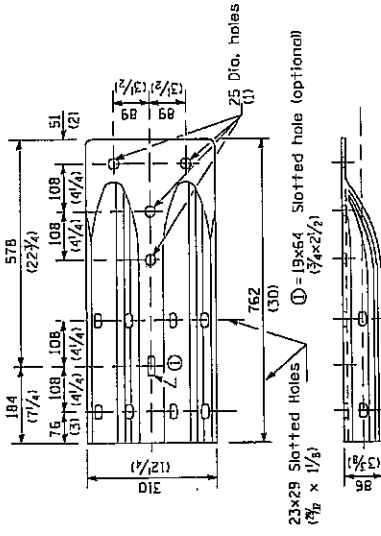
END SECTION



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

STEEL PLATE BEAM GUARDRAIL

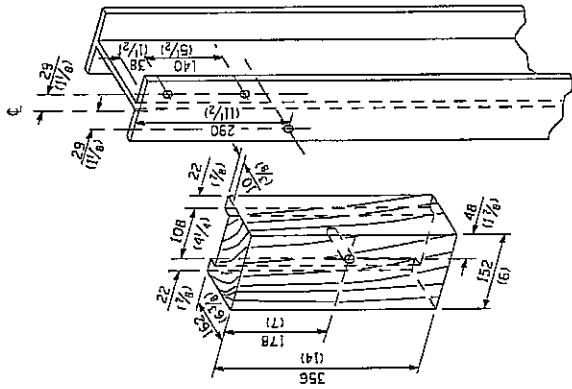
(Sheet 3 of 4)

Effective 2/1/07

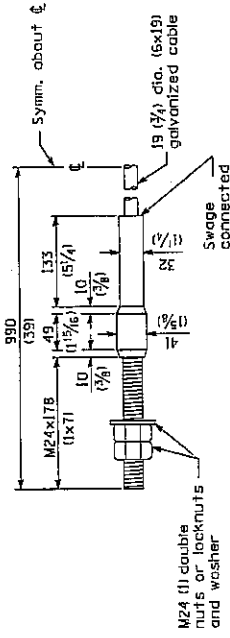
END SHOE

LR SD 630

516

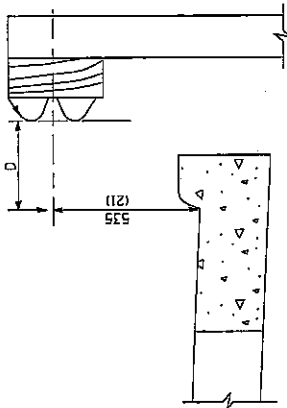


WOOD BLOCK-OUT AND
STEEL POST DETAILS



CABLE ASSEMBLY

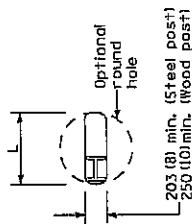
(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to full tension.



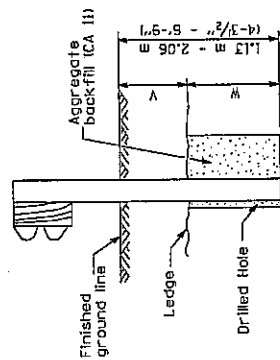
Notes:
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (W-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

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



PLAN



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 10 - 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)

S/c.