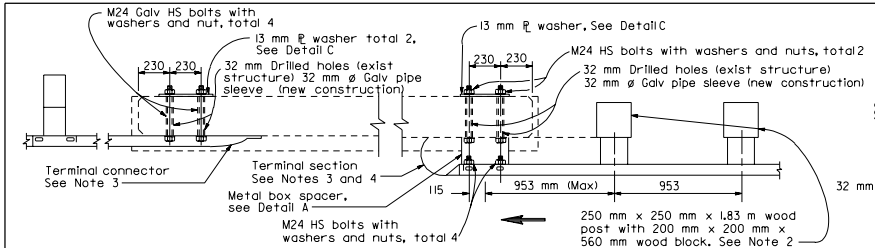
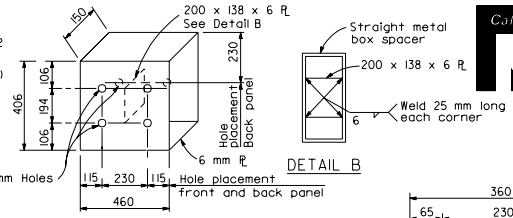


CONNECTION DETAIL 1

See Note 8

PLAN

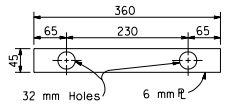
CONNECTION DETAIL 2



DETAIL A

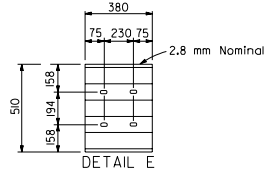
STRAIGHT METAL BOX SPACER

DETAIL B



DETAIL D

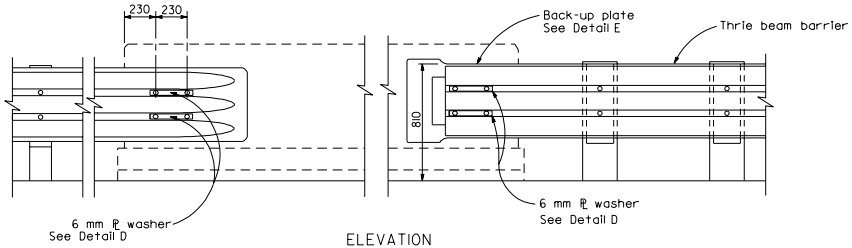
6 mm PLATE WASHER



DETAIL E

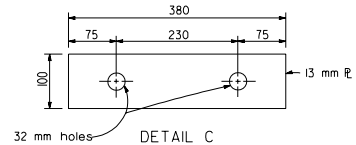
BACK-UP PLATE

(Same shape as thrie beam rail element. Required when thrie beam rail is attached to bridge railing with metal box spacer and terminal section not used).



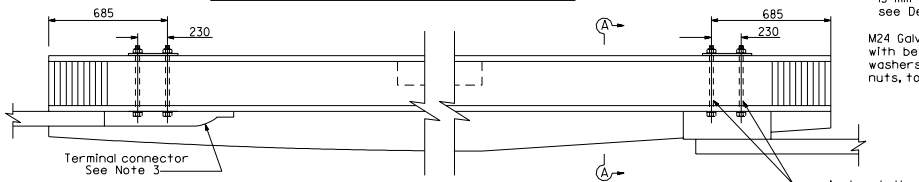
ELEVATION

THRIE BEAM BARRIER CONNECTION TO BRIDGE RAILING WITH VERTICAL FACE



DETAIL C

13 mm PLATE WASHER

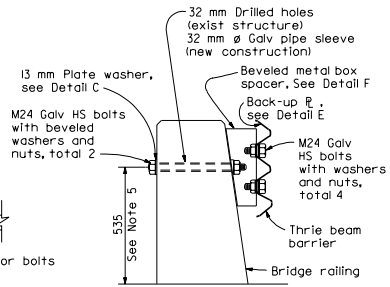


CONNECTION DETAIL 3

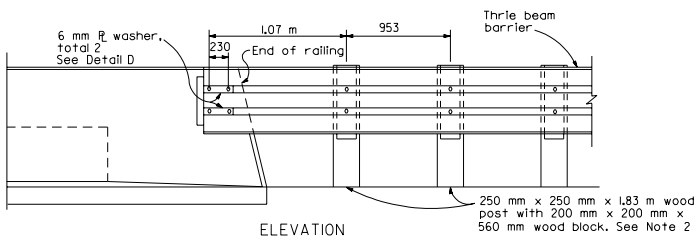
See Note 7 and 8

PLAN

CONNECTION DETAIL 4

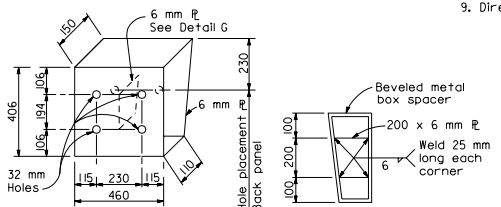


SECTION A-A



ELEVATION

THRIE BEAM BARRIER CONNECTION TO BRIDGE RAILING WITH SLOPED FACE



DETAIL F

DETAIL G

BEVELED METAL BOX SPACER

NOTES

1. These connection details apply to concrete bridge railing. For additional connection details see project plans.
2. For additional details of the thrie beam barrier transition to bridge railing, see "Approach Barrier Transition Details" on Standard Plan A78G.
3. Terminal sections and terminal connectors are to be fabricated to fit required spacing as shown.
4. Terminal section not to be installed on trailing end of approach thrie beam barrier constructed adjacent to one-way roadway. when terminal section is required, trim section to fit.
5. This dimension may vary slightly to fit existing bolt holes in existing bridge railing.
6. Connection Details 1 and 3 are to be used on traffic departure end of bridge.
7. Details for Connection Detail 3 similar to Connection Detail 1 except for anchorage bolts offset dimensions from end of bridge railing.
8. Connection Detail 1 and 3, as applicable to the bridge railing involved, shall be used for both the departure and approach end of the bridge where the bridge railing is 9 m or less from opposing traffic. Where Connection Detail 1 or 3 is used on the approach end of the structure, the thrie beam barrier shall be transitioned to the bridge railing as shown in the "Approach Barrier Transition Details" on Standard Plan A78G.
9. Direction of traffic indicated by →

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Caltrans Metric

REGISTERED CIVIL ENGINEER

July 1, 1999

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Ellis K. Hirst No. C17926 Exp. 6-30-01 CIVIL STATE OF CALIFORNIA

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THRIE BEAM BARRIER CONNECTIONS TO BRIDGE RAILING

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A78F

1999 STD. PLAN A78F