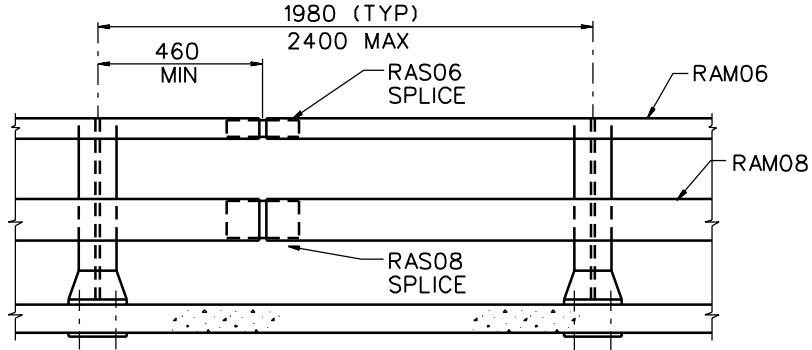
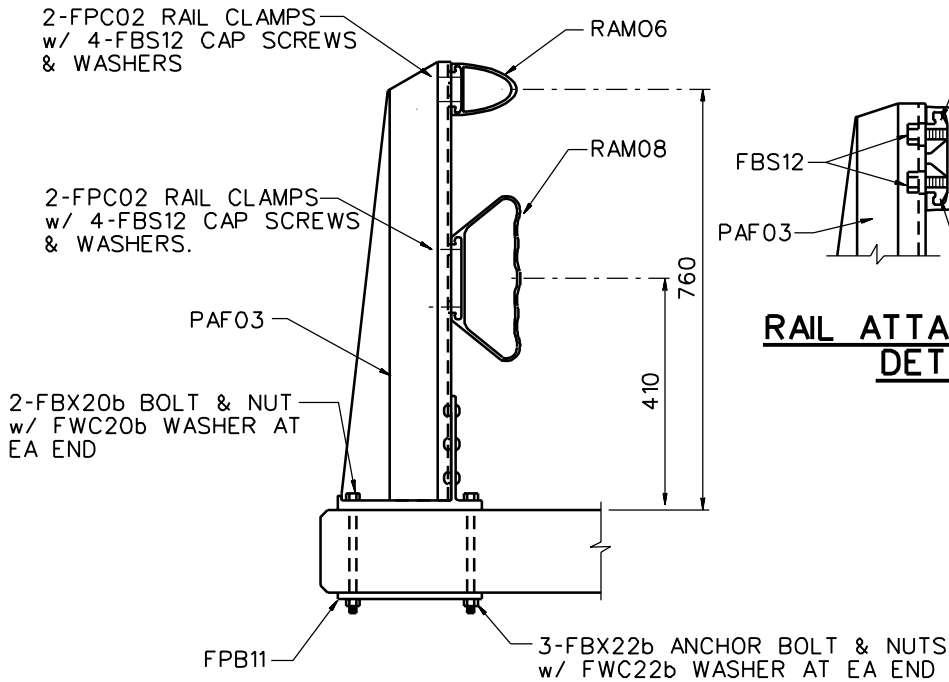


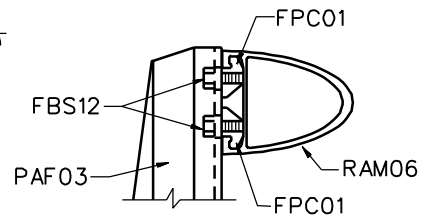
**PLAN**



**ELEVATION**



**SECTION**



**RAIL ATTACHMENT  
DETAIL**

1994

**TRU-BEAM BRIDGE RAILING**

**SBA04a**

SHEET NO.	REF. NO.
1 of 2	

### INTENDED USE

The Tru-Beam Aluminum Bridge Railing, also known as the Modified AASHTO BR5, is suitable for AASHTO Performance Level 1 locations. It is shown as system number 4 in the 1986 FHWA memorandum on bridge railings. The bridge deck used in testing this railing was not representative of typical bridge decks so no deck information is shown in the drawing.

Bridge decks should be designed to develop the full strength of the bridge railing.

### COMPONENTS

Concrete shall develop a minimum 28-day strength of not less than 28 MPa. The concrete shall use a cement conforming to AASHTO M85 (ASTM C150) Type I or II. Reinforcing steel shall be Grade 400 MPa and shall conform to either of the following:

- (a) Epoxy-coated deformed bars as specified in AASHTO M284M (ASTM D3963M).
- (b) AASHTO M31M (ASTM A615M) deformed and plain billet steel reinforcing bars for use with calcium nitrite corrosion inhibitor (30% calcium nitrite solution).

Unit Length = 5940		
Designator	Component	Number
FBS12	Cap screw and washer	24
FBX20b	Anchor bolt and nuts	6
FBX22b	Anchor bolts and nuts	9
FPB11	Bearing plate	3
FPC02	Clamp bar	12
FWC20b	Washers	12
FWC22b	Washers	18
PAF03	Extruded aluminum post	3
RAM06	Semi-elliptic aluminum rail	1
RAM08	Tru-beam aluminum rail	1
RAS06	Semi-elliptical rail splice	1
RAS08	Tru-Beam rail splice	1

### REFERENCES

R.D. Morgan, *Bridge Rails*, Memorandum to Regional FHWA Administrators, Federal Highway Administration, Washington, D.C., August 28, 1986.

C.E. Buth, A. Arnold, W. L. Campise, T. J. Hirsch, D. L. Ivey, and J. S. Noel "Safer Bridge Railings Volume 1: Summary Report", FHWA Report No. FHWA-RD-82-072, Federal Highway Administration, Washington, D.C., June 1984.

## TRU-BEAM BRIDGE RAILING

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03-05-06

