

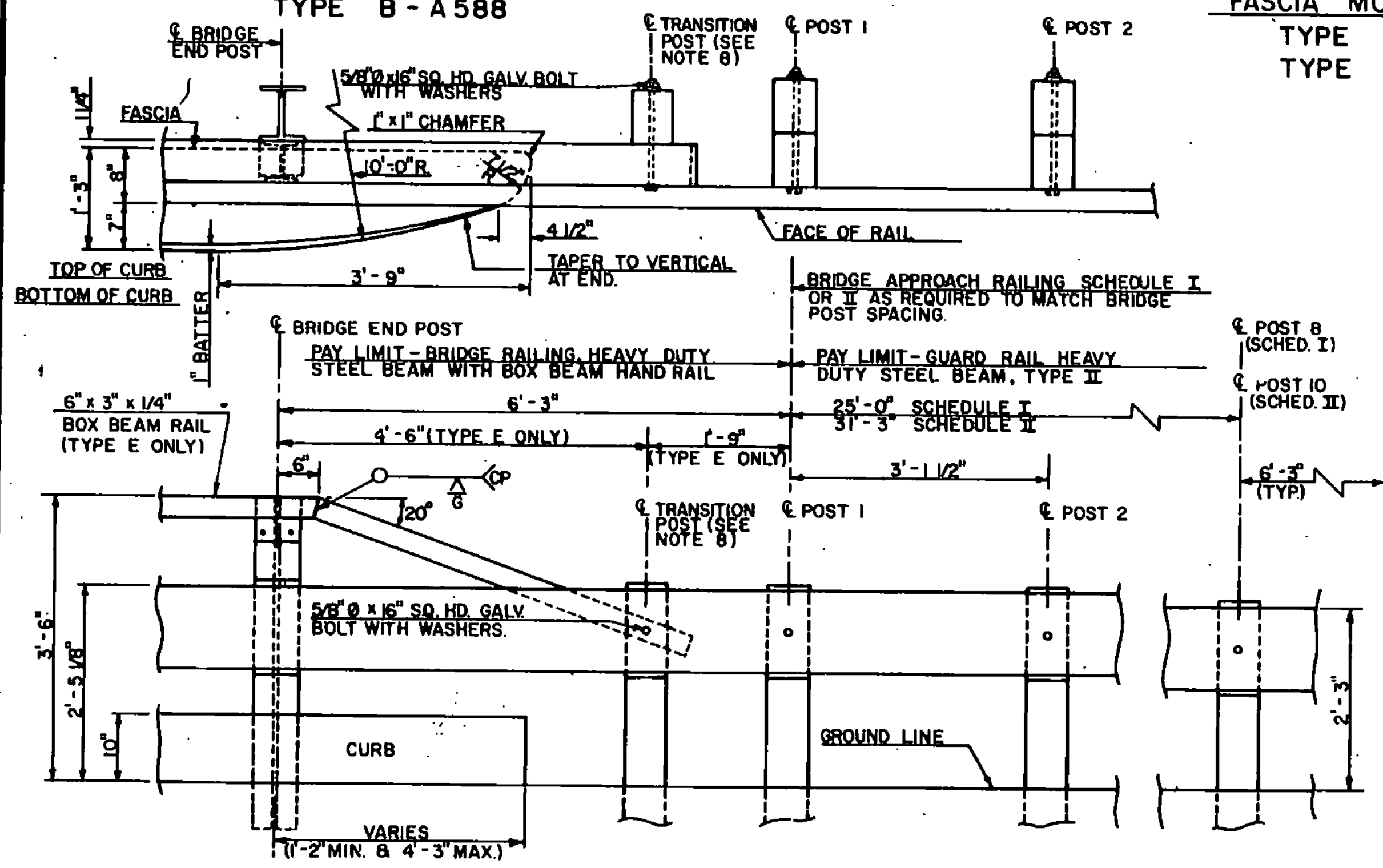
FASCIA MOUNTED STEEL POST  
TYPE A - GALVANIZED  
TYPE B - A588

FASCIA MOUNTED STEEL POST  
TYPE C - GALVANIZED  
TYPE D - A588

FASCIA MOUNTED STEEL POST  
WITH BOX BEAM HAND RAIL  
TYPE E - GALVANIZED

**NOTES**

- SEE STANDARD DRAWING G-1 & G-1d FOR ADDITIONAL DETAILS OF STEEL BEAM GUARD RAIL AND STANDARD SB-R46-82 FOR ADDITIONAL DETAILS OF BOX BEAM RAIL.
- ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND CONFORM WITH SECTION 714.16.
- BRIDGE RAIL TYPES A, C, & E: HEAVY DUTY STEEL BEAM RAIL SHALL BE AASHTO M 180, CLASS B - TYPE 2. POSTS, BRACKETS AND PLATE WASHER SHALL BE ASTM A 36 STEEL. BOLTS SHALL BE ASTM A 307. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION TO ASTM A123.
- BRIDGE RAIL TYPE B & D: HEAVY DUTY STEEL BEAM RAIL SHALL BE AASHTO M 180, CLASS B - TYPE 4. POSTS, BRACKETS & PLATE WASHER SHALL BE ASTM A 588 STEEL. BOLTS SHALL BE ASTM A 325 TYPE III.
- ALL POSTS SHALL BE SET NORMAL TO GRADE.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25 FEET.
- APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 50 FEET FROM THE END OF THE BRIDGE.
- FOR THE TYPE A, B, C, OR D BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- SEE STANDARD SHEET G-1 FOR DELINEATOR DETAILS AND PLACEMENT.
- ERECT DELINEATOR ON EVERY FIFTH POST OR APPROXIMATELY 30 FEET APART. PAYMENT SHALL BE SUBSIDIARY TO OTHER ITEMS.

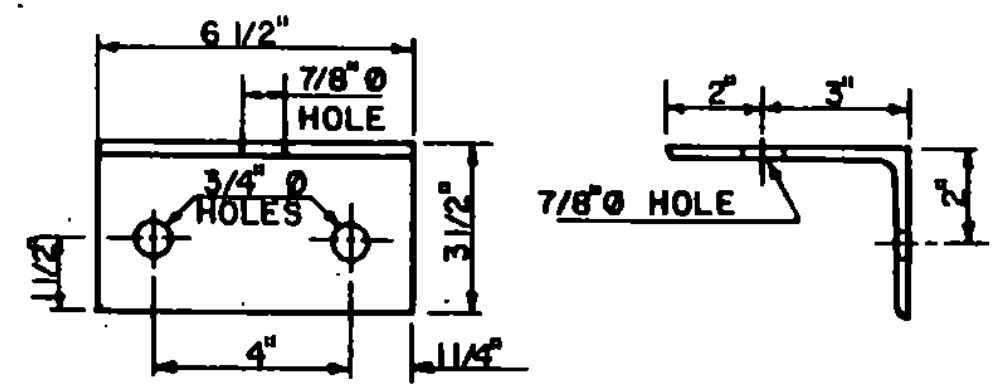


BRIDGE APPROACH DETAILS

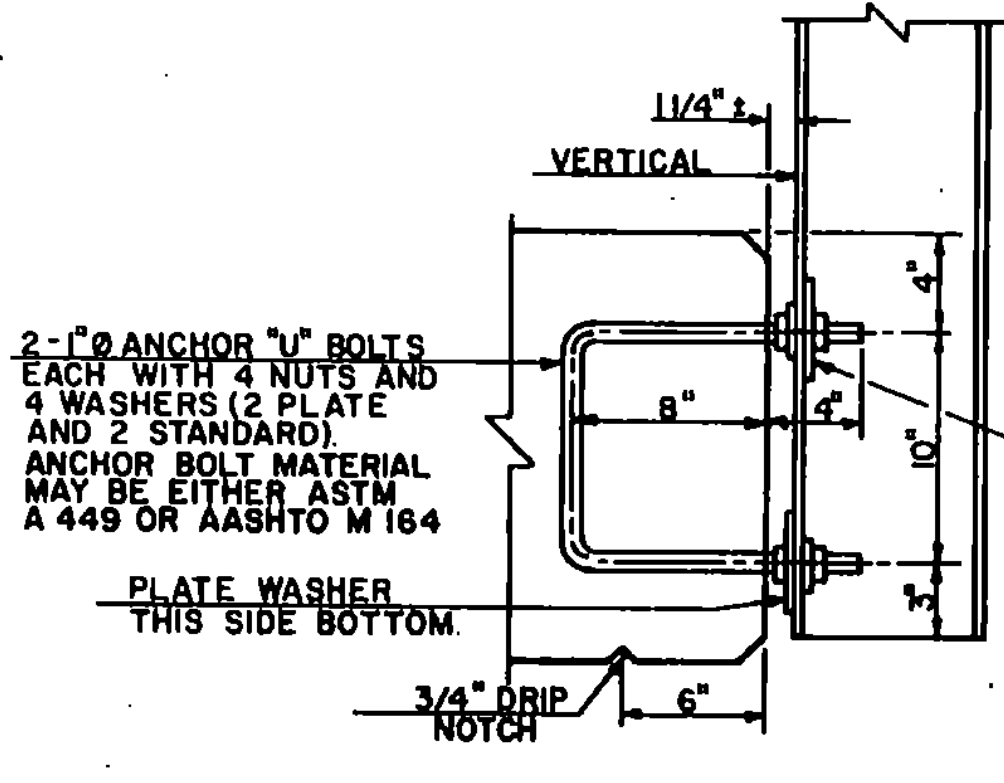
**BRIDGE APPROACH RAILING**  
WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1 USE SCHEDULE I FOR APPROACH RAILING. WHEN A RAIL PANEL SPLICE OCCURS AT BRIDGE END POST USE SCHEDULE II FOR APPROACH RAILING.

SCHEDULE I		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1 1/2"	
2	3'-1 1/2"	
3	3'-1 1/2"	1.4 x 12'-6"
4	3'-1 1/2"	
5	4'-2"	
6	4'-2"	1.2 x 12'-6"
7	4'-2"	
8	6'-3"	
9	6'-3"	1.0 (TYR)

SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1 1/2"	
2	3'-1 1/2"	
3	3'-1 1/2"	1.4 x 18'-9"
4	3'-1 1/2"	
5	3'-1 1/2"	
6	3'-1 1/2"	
7	4'-2"	
8	4'-2"	1.2 x 12'-6"
9	4'-2"	
10	4'-2"	
11	6'-3"	1.0 (TYR)



DETAIL A - SHELF BRACKET



ANCHORAGE DETAIL

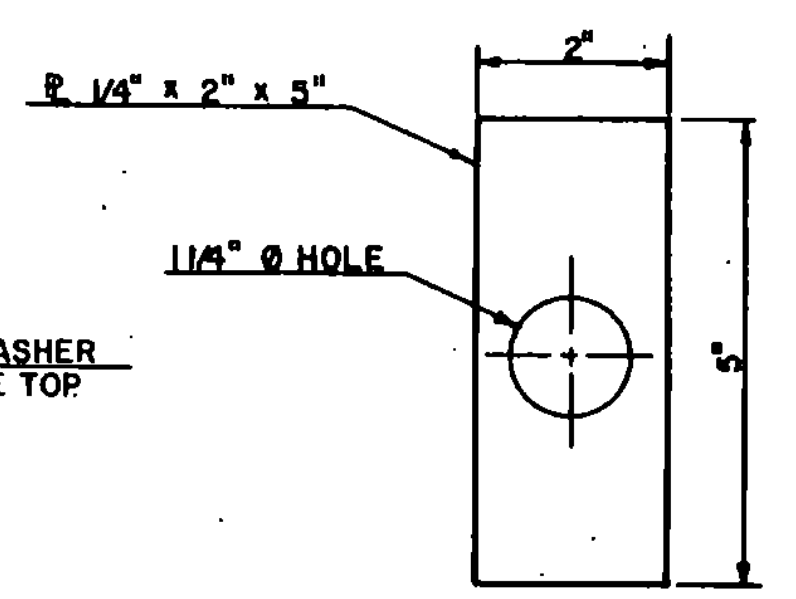
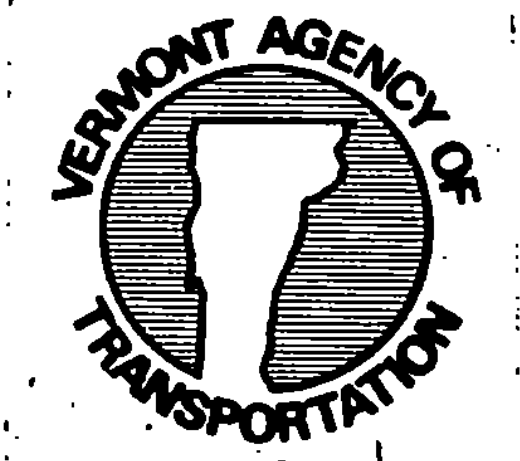


PLATE WASHER DETAIL

REVISIONS AND CORRECTIONS  
REVISION DELINEATORS ADDED D.A.R. 6-18-82  
REVISION, BOLTS THRU BOX BEAM RAIL R.S.H. 12-13-84  
REVISION, CHANGED BOLT HOLE THROUGH SHELF BRACKET R.S.H. 12-13-84  
CLARIFIED OFFSET BLOCK BOLT INSTALLATION R.P.G. 11-13-91.

APPROVED: *William J. Goss*  
DATE: DECEMBER 28, 1981  
CHIEF OF DESIGN  
*W. M. Smith*  
STRUCTURES ENGINEER  
*S. J. O.*  
DIRECTOR OF ENGINEERING AND CONSTRUCTION

**BRIDGE RAILING HEAVY DUTY STEEL BEAM (TYPE A, TYPE B, TYPE C, AND TYPE D)  
BRIDGE RAILING HEAVY DUTY STEEL BEAM WITH BOX BEAM HAND RAIL (TYPE E)**



STANDARD  
SB-R6-82