

# STEEL BEAM DEEP GUARD RAIL

## NOTES

**GENERAL:**—The details shown hereon shall apply when steel beam deep guard rail is specified.

Standard design shall be used unless otherwise specified.

Barrier design shall be used when this type is specifically required by the plan or proposal.

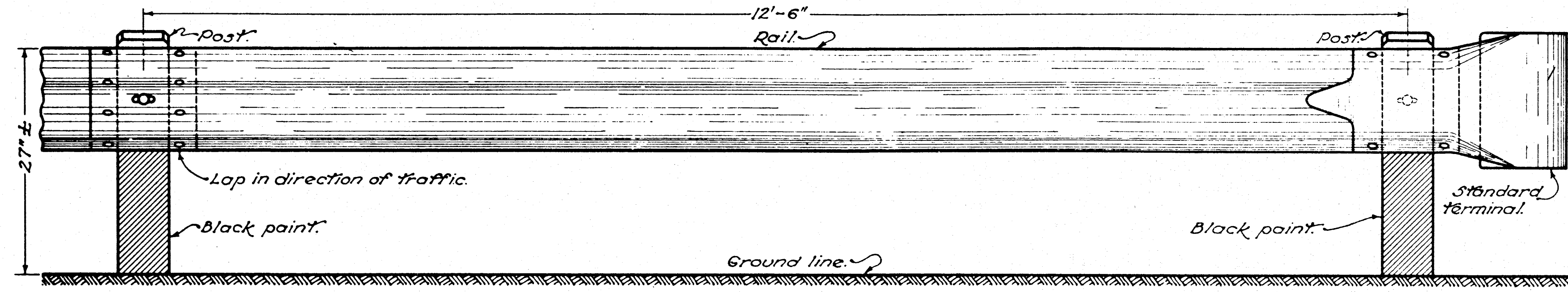
When steel beam deep guard rail is used as bridge railing, the 6'-3" spacing between posts shall be used for a distance of 12'-6" beyond each end of the bridge.

**BOLTS:**—Bolts for rail splice and for fastening rail to posts to be 5/8" diameter with button head, oval shoulder and hexagon nuts.

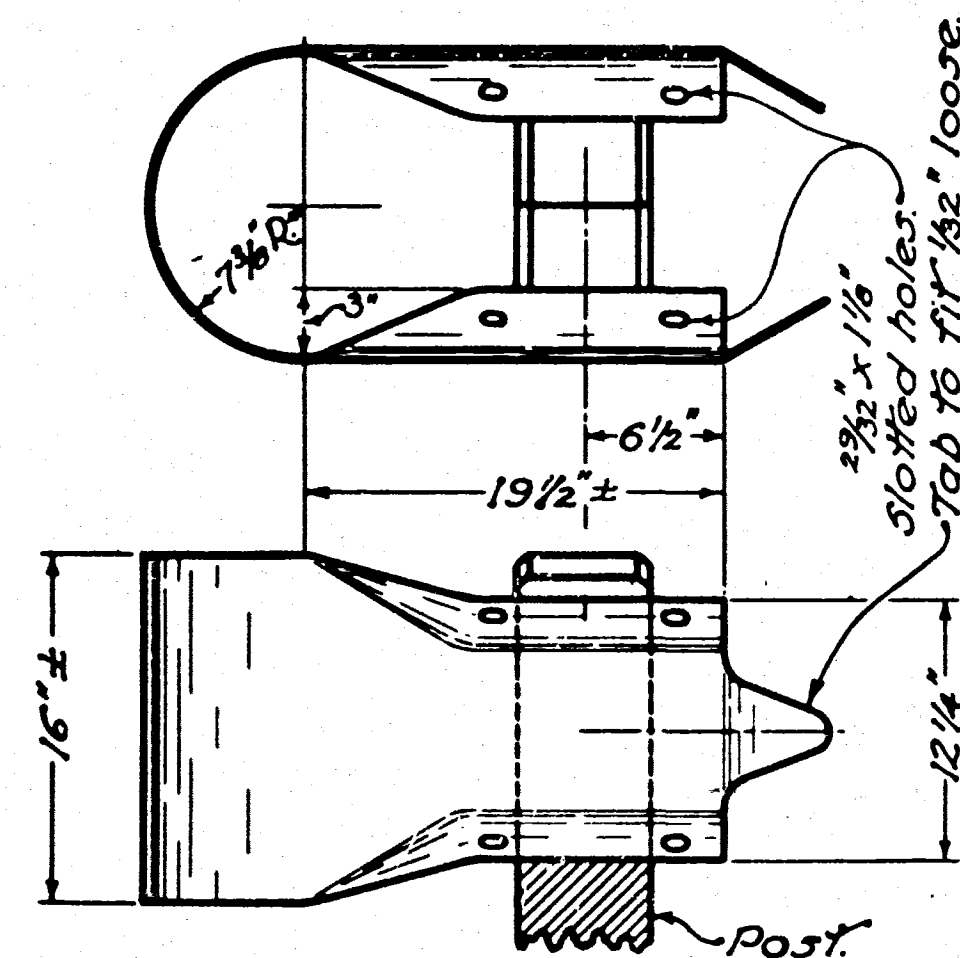
**POSTS:**—Shall be either wood or steel except that the same type of post shall be used throughout the length of a project unless otherwise permitted by the Engineer. For details not shown hereon, see Standard Drawing I-15 No. 1.

Wood posts may be either round or square sawed, creosote butt treated or pentachlorophenol pressure treated. Steel posts shall be 6 B x 8 1/2 pounds.

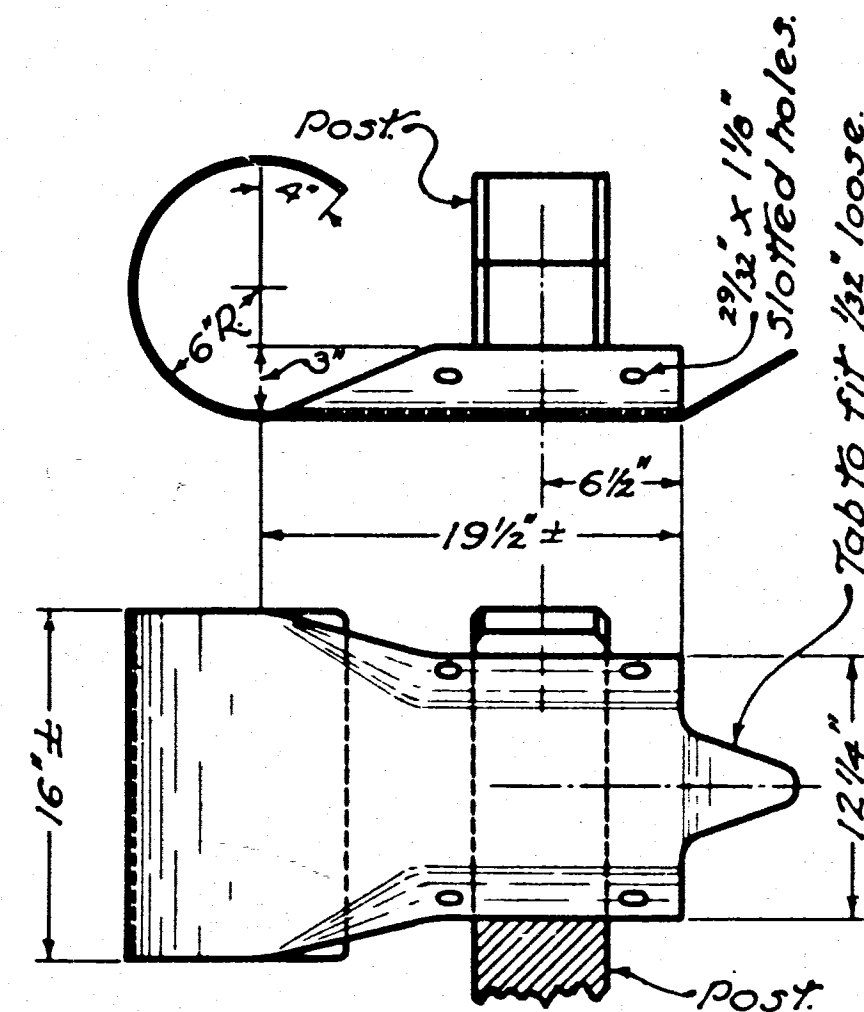
**TERMINALS:**—Details shown are for use with wood posts. If steel posts are used the curvature of the terminal shall be modified to fit the steel post. Terminals shall be made from 12 gage minimum thickness steel.



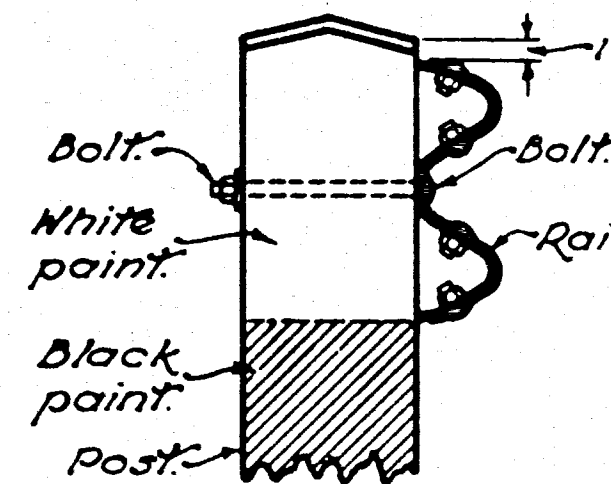
ELEVATION



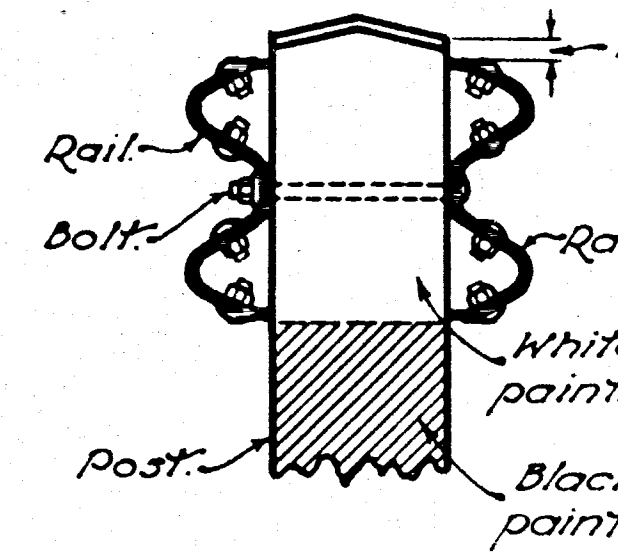
BARRIER TERMINAL



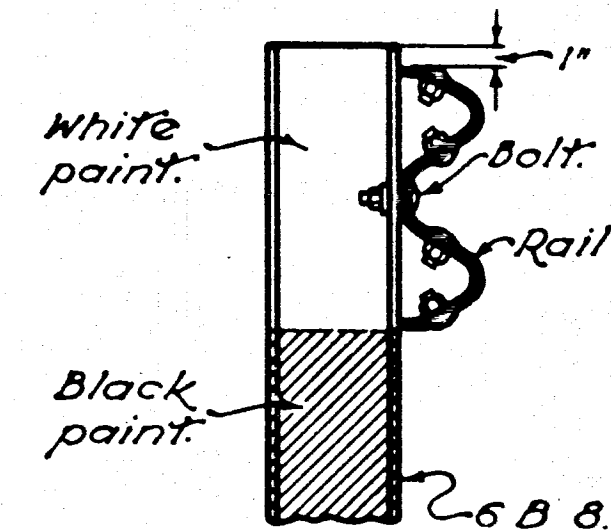
STANDARD TERMINAL



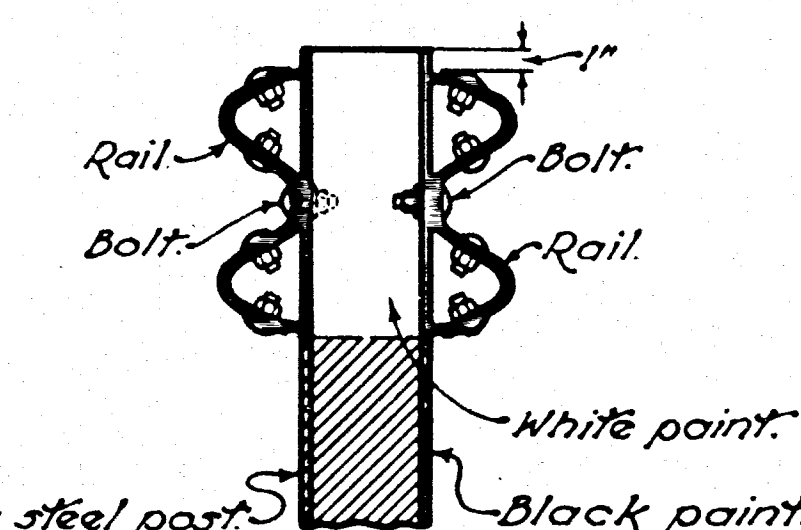
STANDARD DESIGN USING WOOD POSTS



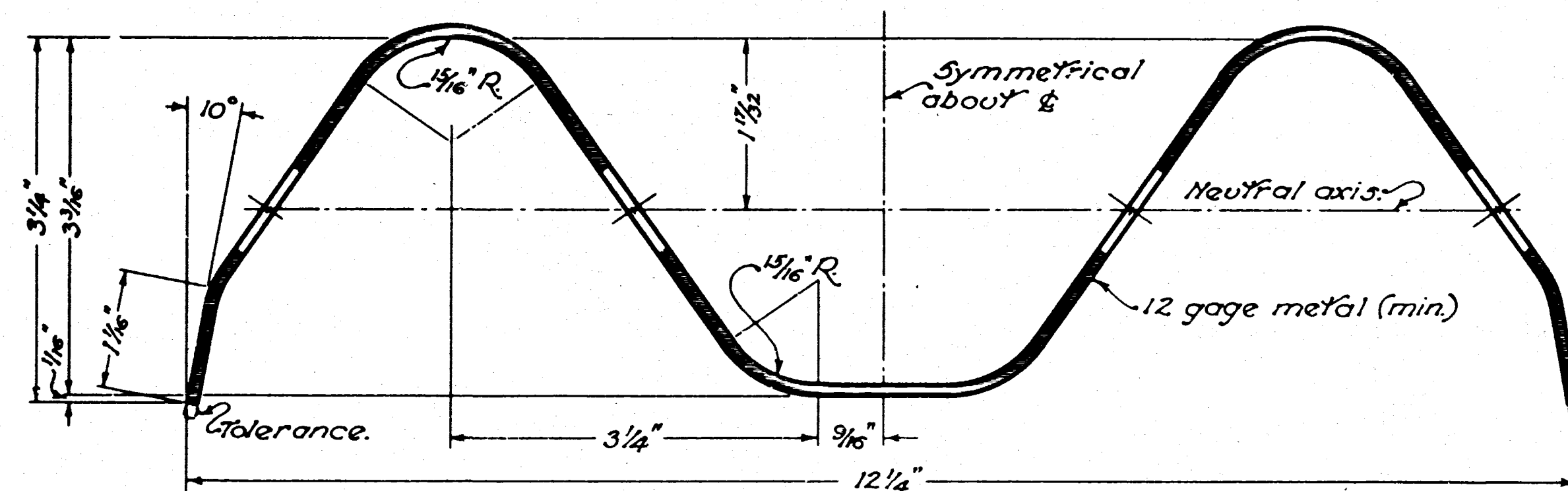
BARRIER DESIGN USING WOOD POSTS



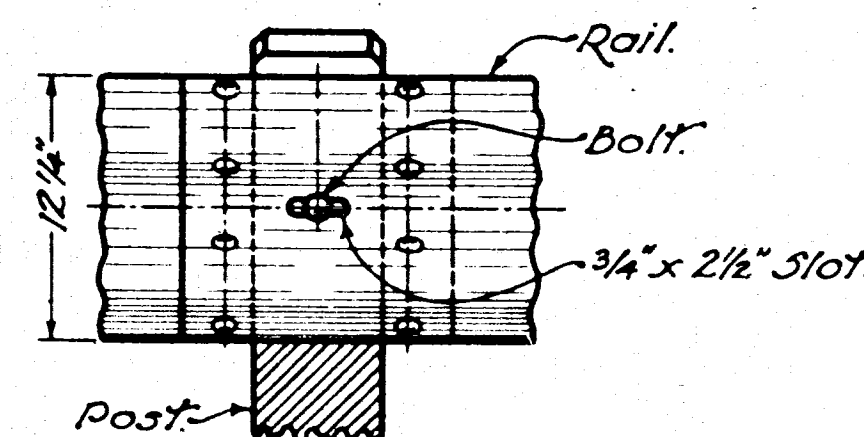
STANDARD DESIGN USING STEEL POSTS



BARRIER DESIGN USING STEEL POSTS



SECTION THRU RAIL ELEMENT



RAIL SPLICE

|                                                              |                                                                                         |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| BUREAU OF LOCATION AND DESIGN<br>OHIO DEPARTMENT OF HIGHWAYS |                                                                                         |
| <b>GUARD RAIL</b>                                            |                                                                                         |
| DATE:<br>7-2-55<br>6-1-57                                    | STANDARD CONSTRUCTION DRAWING<br>I-15<br>No. 2-A<br>APPROVED: [Signature] ENGR. L. & D. |

MUSKINGUM COUNTY  
MUS-156-2.85

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62

|                                                                                     |                                                                           |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| U.S. ARMY ENGINEER DISTRICT, HUNTINGTON<br>CORPS OF ENGINEERS<br>HUNTINGTON, W. VA. |                                                                           |
| DRAWN BY:                                                                           |                                                                           |
| TRACED BY:                                                                          |                                                                           |
| CHECKED BY: [Signature]                                                             |                                                                           |
| SUBMITTED BY: [Signature]                                                           |                                                                           |
| ELMER S. BARRETT ASSOCIATES                                                         |                                                                           |
| RECOMMENDED BY: [Signature]                                                         | APPROVED BY: [Signature]<br>CHIEF ENGR. DIV. COL. C. E. DISTRICT ENGINEER |
| DATE: JULY 1959                                                                     |                                                                           |
| ELMER S. BARRETT ASSOCIATES<br>CONSULTING ENGINEERS<br>CHILLICOTHE, OHIO            |                                                                           |
| SCALE:                                                                              | SPEC. NO.                                                                 |
| DRAWING NUMBER<br>027f-UD 6-68/9<br>SHEET 9 OF 62                                   |                                                                           |

WORK AS CONSTRUCTED

TYPICAL DETAILS