



WOOD SPECIFICATIONS

7.5" **~**

SIDE VIEW

SINGLE GUARDRAIL

1 OR 2 ROUND WASHERS — 0^10^2

LEGEND FOR WASHER REQUIREMENTS

- POSTS AND BLOCK-OUTS SHALL BE OF TIMBER WITH A STRESS GRADE OF 1200 P. S. I. OR MORE, POSTS WILL HAVE NOMINAL SIZE OF 6" X 8". BLOCK-OUTS WILL HAVE NOMINAL SIZE OF 6" X 8" (TYPICAL SIZE 5.5" X 7.5"). TESTING SHALL BE IN ACCORDANCE WITH WEST COAST LUMBER INSPECTION BUREAU, SOUTHERN PINE INSPECTION BUREAU, OR OTHER APPROPRIATE TIMBER ASSOCIATIONS. TIMBER FOR POSTS SHALL BE ROUGH SAWN (UNPLANED) WITH NOMINAL DIMENSIONS INDICATED. TIMBER FOR BLOCK-OUTS SHALL BE S4S WITH THE TYPICAL DIMENSIONS INDICATED.
- ALL WOOD POSTS AND BLOCK-OUTS SHALL BE TREATED WITH TIMBER PRESERVATIVE AS REQUIRED BY SUBSECTION 911.02(A) OF THE TENNESSEE STANDARD SPECIFICATION.
- WOOD POSTS AND BLOCK-OUTS SHALL BE FURNISHED WITH HOLES FOR FUTURE RAIL ADJUSTMENT IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD DRAWINGS S-GR-13.

GENERAL NOTES

- (A) MATERIALS AND SPECIFICATIONS NOT SHOWN IN THESE "S-GR" SERIES OF DRAWINGS SHALL BE IN ACCORDANCE WITH STANDARD PROVISIONS REGARDING SECTION 705.
- (B) THE CONTRACTOR MAY HAVE OPTIONAL CHOICE OF EITHER THE STEEL W6 X 8.5 OR W6 \times 9.0 HOT ROLLED OR WELDED STEEL SHAPE, OR THE WOOD POSTS WITH THEIR COMPANION BLOCK-OUTS AS SHOWN ABOVE, WITHIN THE FOLLOWING STIPULATIONS:
 - (1) THE MIXING OF ANY OF THE ABOVE POSTS TYPES ON A GIVEN PRO-JECT WILL BE AVOIDED IF POSSIBLE.
 - (2) SHOULD IT BECOME NECESSARY TO CHANGE THE TYPE OF POSTS ON A GIVEN PROJECT, THE POSTS SHALL NOT BE MIXED ON ANY GIVEN RUN OF GUARDRAIL. (EXCEPTION, WOOD POSTS ON GUARDRAIL TERMINALS).
- ON EXISTING STRUCTURES NOT HAVING A VERTICAL FACE FOR THE ATTACHMENT OF TWO RAIL ELEMENTS, USE OF THE W6 imes 15.0 POSTS IS REQUIRED ON THE SEMI-RIGID TO RIGID BARRIER TRANSITION DETAILS, SEE STANDARD DRAWINGS S-GR-16 AND

OF THE STEEL POST AND WILL BE THE SAME SIZE AND DIMENSION AS THOSE SHOWN ON STANDARD DRAWING S-GR-13.

- (D) METAL POSTS AND ALL BLOCK-OUTS SHALL BE FURNISHED WITH HOLES FOR FUTURE RAIL ADJUSTMENT IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD DRAWINGS S-GR-13 AND S-GR-13A.
- (E) W6 \times 9.0 OR W6 \times 8.5 POST SHALL BE USED FOR INSTALLATIONS ON BRIDGES AS SHOWN ON STANDARD DRAWING S-GR-22.
- (F) WELDED STEEL POSTS MAY BE USED AS ALTERNATES TO THE HOT ROLLED STEEL SHAPE. THEY MUST CONFORM TO ASTM A-769 AND BE GALVANIZED ACCORDING TO ASTM A-123.

🔘 MINOR REVISION -- FHWA

APPROVAL NOT REQUIRED.

REV. 9-15-82: CHANGED S-GR-2 TO S-GR-13. CONCRETE POST DELETED.

AND NOTES. ADDED EXTRA THRIE-

BEAM DETAIL FOR CLARIFICATION.

REV. 7-1-84: CORRECTED DIMENSIONS

REV. 9-5-87: REPLACED W6 \times 16 OR

ATED WELDED PLATE. ELIMINATED USE

W6 \times 15.5 WITH W6 \times 15. ELIMIN-

REV. 11-4-87: CHANGED POST SIZE

OF WOOD POST IN TRANSITION FROM SEMI-RIGID TO RIGID RAIL.

REV. 7-29-93: REDREW AND REORGANIZED SHEET. CORRECTED DIMENSIONS FOR WELDED STEEL SHAPE W6 X 8.5 AND W6 X 9.0.

ADDED DIMENSIONS FOR WELDED

STEEL SHAPE W6 X 15.0. ELIMINATED

USE OF "C" SHAPE POST. CORRECTED

DIMENSIONS FOR WOOD POST BLOCK-

OUT. CHANGED ALL STEEL POSTS AND BLOCK-OUTS SIDE VIEW DIMENSIONS TO CONCUR WITH DIMENSIONS OF

REV. 7-29-95: CHANGED HEIGHT OF WOOD BLOCK-OUT FROM 15" TO 14".

IN DETAILS CORRECTED VARIOUS MOUNTING HEIGHTS.

WOODEN MEDIAN DIVIDER GUARDRAIL.

REV. 6-10-96: CHANGED LENGTH OF

%" BUTTON HEAD BOLT FROM 25"

TO 18" IN SIDE VIEW SINGLE GUARDRAIL DETAIL.

REV. 7-29-96: ADDED DIMENSION TO SIDE VIEW FOR SINGLE GUARDRAIL.

REV. 7-29-98: DELETED DETAILS

FOR MEDIAN DIVIDER GUARDRAIL

STEEL BLOCK-OUT TO WOOD BLOCK

-OUT IN ALL DETAILS AND NOTES.

REV. 9-5-98: GENERAL REVISION THROUGHOUT DRAWING. CHANGED

DRAWING NO. FROM S-GR-13 TO

REV. 3-22-99: CHANGED NUMBER OF WASHERS WHERE BLOCK-OUT

ATTACHES TO POST FROM 2 TO 1.

REV. 9-11-02: ADDED GENERAL NOTE (G. ADDED WELDED STEEL

REV. 5-27-03: CHANGED GENERAL NOTE (D) AND MOVED GENERAL NOTE (G) TO STANDARD DRAWINGS S-GR-13

SHAPES FOR W8X13 AND W8X21

GUARDRAIL POSTS.

AND S-GR-13A.

S-GR-12.

USING THRIE-RAIL. CHANGED

□ REV. 5-27-96: CHANGED
DIMENSIONS FOR FRONT VIEW OF

FOR USE ON BRIDGES.

W6 X 8.5 SHAPE.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

W-BEAM BARRIER POST DETAILS AND

S-GR-12

SPECIFICATIONS