



THRIE BEAM RAIL SPLICE

-Eliminate slot

bolt at splices

 $-2^{9}_{32}$ " x  $1\frac{1}{8}$ " Slots (Reg.

Slots (Expansion splice)

splice) and  $^{29}_{32}'' \times 2\frac{1}{2}''$ 

2" (Regular splice)

 $2\frac{3}{4}$ " (Expansion splice)

l between posts

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I button head

Design Specifications: 2002 AASHTO LFD (17th Ed.)

Guardrail delineators shall be attached to the top othe guardrail and shall similarly use the delineator details of Missouri Standard Plan 617.10, except that the delineator body shall be attached to the top of

Panel lengths of channel members shall be attached continuously to a minimum of four posts and a maximum

All steel connecting bolts and fasteners for posts and railing, and all anchor bolts, nuts, washers and plates shall be galvanized after fabrication.

Rail posts shall be set perpendicular to roadway in accordance with Sec 713 except that the posts shall be aligned by the use of 1 3/4-inch shims such that the post deviates not more than 1/2 inch from true horizontal alignment after final adjustment. The shims shall be placed between the blockout and the thrie beam rail. The thickness of the shims shall be determined by the contractor and verified by the engineer before

At the expansion slots in the thrie beam rails and channels, the bolts shall be tightened and backed off

At the thrie beam connection to blockout on wings, the bolts shall be tightened and backed off one-half

Minimum length of thrie beam sections is equal to one

A 5/8-inch diameter button-head, oval shoulder bolt with a minimum 3/8-inch thick hex nut shall be used

Thrie beam guardrail on the bridge shall be 12-guage

Posts, cap rail angles, bent plates, channels and channel splice plates shall be fabricated from ASTM

Flat washers 3  $\times$  1 3/4  $\times$  3/16-inch minimum shall be used at all post bolts between the bolt head and beam. The washers shall be rectangular in shape with an  $11/16 \times 1$ -inch slot, or when necessary of such design as to fit the contour of the beam. Rectangular washers  $3 \times 1 3/4 \times 5/8$ -inch shall be used between

Special drilling of the thrie beam may be required at the splices. All drilling details shall be shown on

Expansion splices in the thrie beam rail shall be made at either the first or second post on either side of the joint and on structure at bridge ends. When the splice is made at the second post, an expansion slot shall be provided in the thrie beam rail for connection to the first post to allow for

In addition to the expansion provisions at the expansion joints, expansion splices in the thrie beam rail and the channel shall be provided at other locations so that the maximum length without expansion provisions does not exceed 200 feet.

Shim plates  $6 \times 6 \times 1/16$ -inch may be used between the top of the post and the channel member as required for vertical alignment.

Shim plates shall be galvanized after fabrication.

Contractor shall verify all dimensions in field before ordering materials.

See Missouri Standard Plan 606.00 for details not

Designed Checked

and hex nuts

plates

€ Three 1 1/8"Ø Drilled Holes in

€ Three 1"Ø A307 Bolts with plate

€ Three 1 1/4"Ø Holes in both bent

washer, hardened locking washers

Note: This drawing is not to scale. Follow dimensions.

Sheet No.

| 4 \frac{1}{2}" | 4 \frac{1}{2}" |

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THIS MEDIA SHOULD

NOT BE CONSIDERED

A CERTIFIED

DOCUMENT. "

8/1/2019

JOB NO \* CONTRACT ID.

PROJECT NO.

BRIDGE NO

THRIE 3A

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SHEET NO

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ROUTE

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