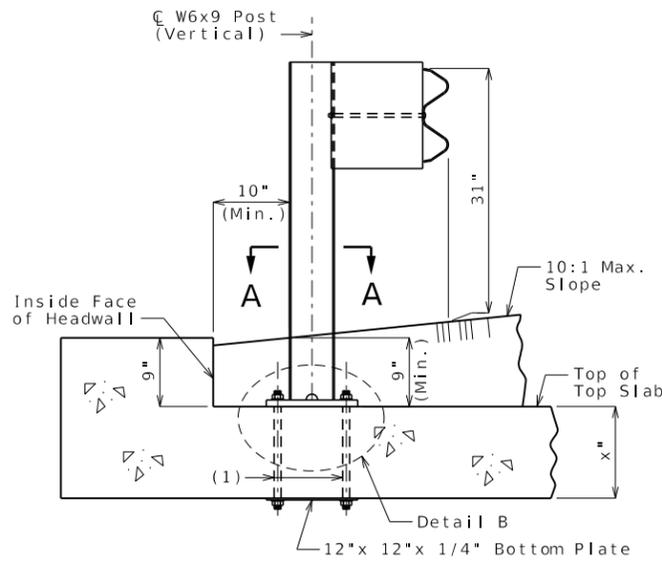


PART SECTION THRU TOP SLAB SHOWING RAIL POST ATTACHMENT (Far from headwall)



PART SECTION THRU TOP SLAB SHOWING RAIL POST ATTACHMENT (Close to headwall)

(1) Two 7/8-inch diameter ASTM A307 bolts with ASTM A563 Grade A hex nuts and ASTM F436 hardened washers.

General Notes:

Furnishing and installing posts and guardrail on culvert as shown on this sheet will be considered completely covered by the contract unit price for Bridge Guardrail (W-Beam).

Furnishing and installing posts and guardrail on culvert shall be in accordance with Sec 606 except as shown.

Rail posts shall be seated on 1/16-inch elastomeric pads having the same dimensions as the post base plate. Such pads may be any elastomeric material, plain or fibered, having hardness (durometer) of 50 or above, as certified by the manufacturer. Additional pads or half pads may be used in shimming for alignment. Post heights shown will increase by the thickness of the pad.

Posts, base plates, and bottom plates shall be fabricated from ASTM A709 Grade 36 steel and galvanized.

Fabrication of structural steel shall be in accordance with Sec 1080.

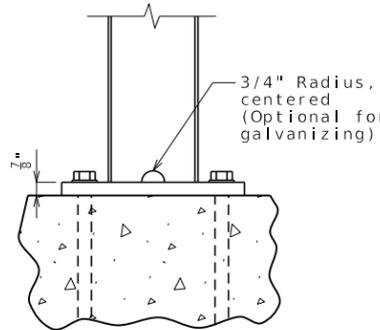
Holes for ASTM A307 bolts may be drilled into the culvert.

See Missouri Standard Plans drawing 606.50 for details not shown.

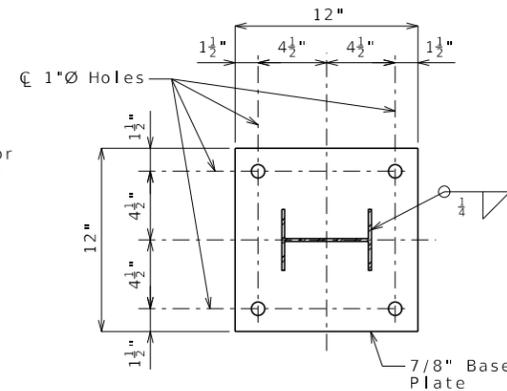
Standard Drawing Guidance (Do not show on plans):

Use these details when required to connect rail posts to culvert slabs less than 10 inches in thickness.

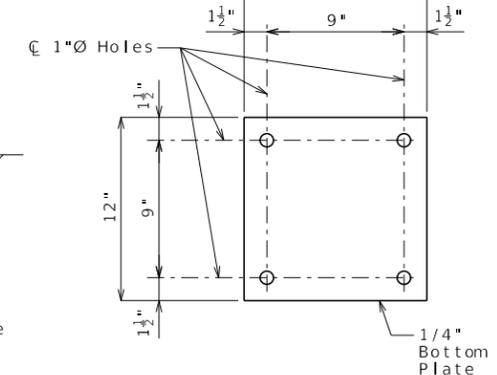
① Culvert attachment is not required for fills over 40 inches. Instead, posts may be driven per Std. Plans 606.50.



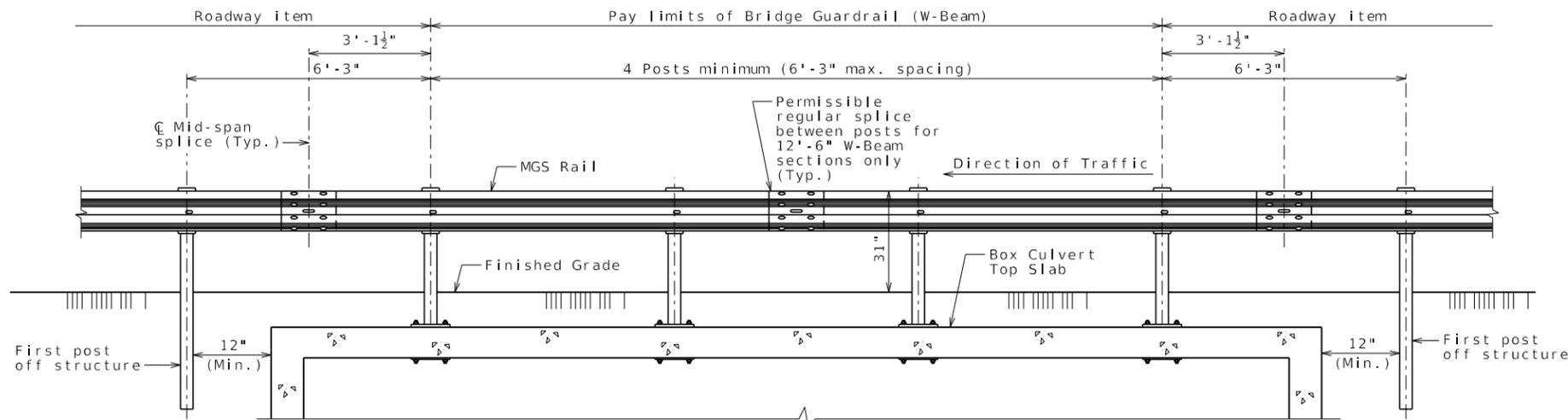
DETAIL B



SECTION A-A



BOTTOM PLATE DETAIL



TYPICAL ELEVATION

MIDWEST GUARDRAIL SYSTEM (MGS) ON BOX CULVERT

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

Sheet No. of

DATE PREPARED		5/17/2024	
ROUTE	STATE	MO	
DISTRICT	SHEET NO.	2	
COUNTY			
JOB NO.			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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