

NOTE:

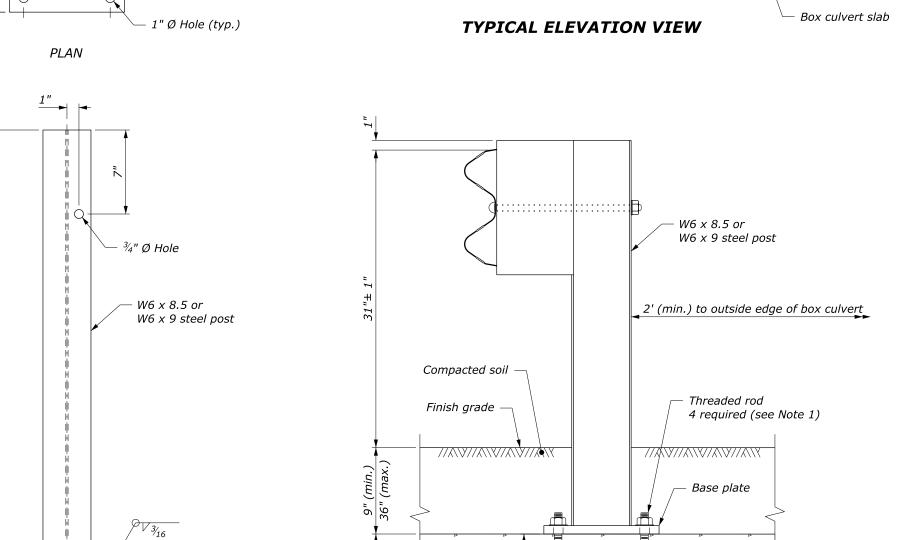
3'-1½"

Box culvert slab

6'-3"

Finished grade

- 1. Attach guardrail post to box culvert with $\frac{7}{8}$ inch diameter high-strength threaded rods $8^{\frac{1}{2}}$ inch in length with resinbonded anchors. Use carbon steel rods with a minimum strength of 125 ksi and a minimum yield strength of 105 ksi. Rods, nuts, and washers have an electroplated zinc coating.
- 2. Wood blocks are shown. Blocks of an approved alternative may be used.
- 3. See Standard 617-32 for other details.



6'-3"

Mid-span splice

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 $\frac{7}{8}$ " Thick

base plate

W6 x 9 steel post

Base plate

ELEVATION

BOX CULVERT POST

W6 x 8.5 or

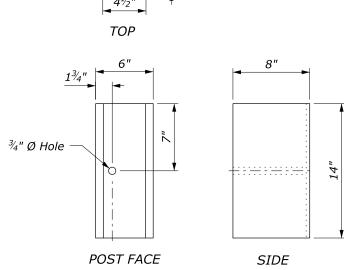
3/16

BOX CULVERT MGS GUARDRAIL STEEL POST

MGS guardrail

6'-3"

D D



BLOCKSee Note 2

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY

MGS W-BEAM GUARDRAIL
STEEL POSTS
ATTACHED TO BOX CULVERT

FLH STANDARD
617-38

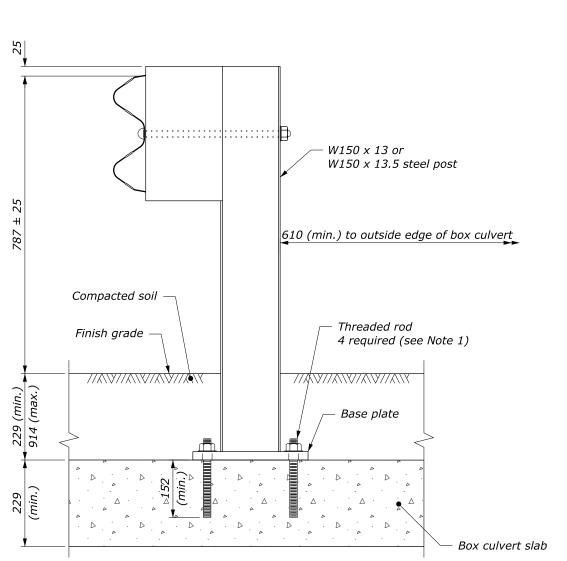
SPECIFICATION
FP-14
APPROVED FOR USE
1/2024

NO SCALE

PROJECT

NOTE:

- 1. Attach guardrail post to box culvert with 22 mm diameter high-strength threaded rods 216 mm in length with resinbonded anchors. Use carbon steel rods with a minimum strength of 862 MPa and a minimum yield strength of 724 MPA. Rods, nuts, and washers have an electroplated zinc coating.
- 2. Wood blocks are shown. Blocks of an approved alternative may be used.
- 3. See Standard M617-32 for other details.



BOX CULVERT MGS GUARDRAIL

STEEL POST

MGS guardrail

1906

TYPICAL ELEVATION VIEW

D D

1906

Finished grade

953

Box culvert slab

305

229

PLAN

ELEVATION

BOX CULVERT POST

5 $^{\lor}$

38

Mid-span splice

22 Thick

W150 x 13 or

W150 x 13.5 steel post

19 Ø Hole

W150 x 13 or

W150 x 13.5 steel post

Base plate

base plate

25 Ø Hole (typ.)

953

///\\\\//\\\\Y

P D

1906

38

305

38

1016 (min.)

114 TOP 203 19 Ø Hole POST FACE SIDE **BLOCK** See Note 2

> This drawing contains **Metric** units of measure. Dimensions without units are millimeters.

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY FLH STANDARD M617-38 **MGS W-BEAM GUARDRAIL** SPECIFICATION

NO SCALE

STEEL POSTS ATTACHED TO BOX CULVERT

FP-14 APPROVED FOR USE 1/2024