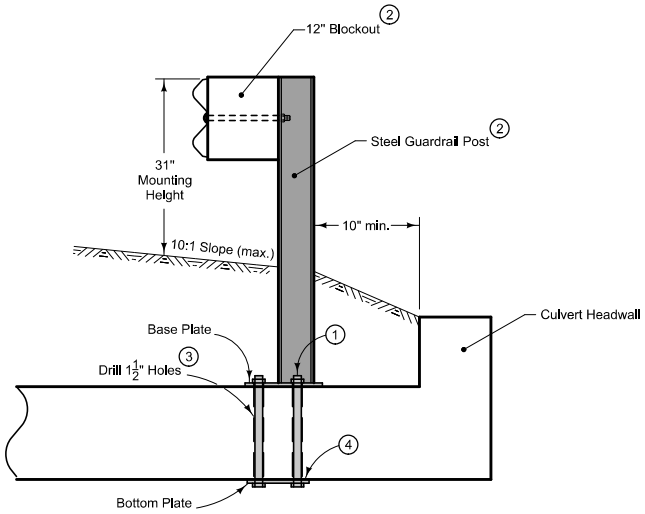
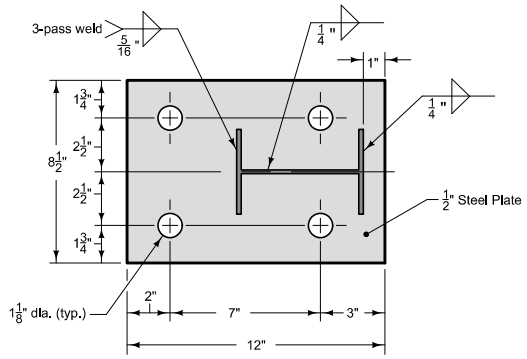
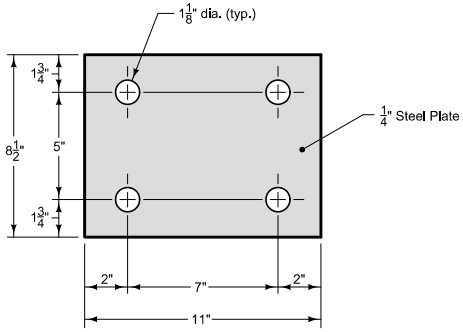


TYPICAL SECTION



BASE PLATE AND POST



BOTTOM PLATE

Install post adapter unit on top of box culverts or similar situations when standard post embedments are not possible.

Contractor may elect to fabricate posts using a 6-foot post and adjusting in the field as follows:

A. Saw off top end to proper length and drill new holes.
B. Treat the sawed end and drilled holes with two coats of organic zinc rich paint containing at least 94% zinc dust. Ensure the surfaces to be treated are free of oil residues due to sawing or drilling.

The price bid for "Steel Beam Guardrail, Post Adapter Unit, BA-210" is full compensation for furnishing, assembling, and installing the adapter unit as shown. Quantity shown in the contract documents.

(1) Bolt length equals slab thickness plus 2 inches.

(2) Provide W6x9 or W6x8.5 steel guardrail post. Supply routed blockout or nail blockout to post in order to prevent twisting.

(3) Drill holes using equipment designed to cut through concrete and reinforcing steel.

(4) Grout spalling before placement of bottom plate using a grout consisting of equal parts by weight of Portland cement and concrete sand, mixed with sufficient water to form a paste.

Possible Contract Items:
Steel Beam Guardrail
Steel Beam Guardrail, Post Adapter Unit, BA-210

Incidental to Adapter Unit:
1 - 12" x 8½" x ½" ASTM A36 Steel Plate
1 - 11" x 8½" x ¼" ASTM A36 Steel Plate
4 - 1" ASTM A307 Hex Head bolts with one nut and two washers per bolt

Incidental to Steel Beam Guardrail:
W6 x 9 or W6 x 8.5 Steel Guardrail Post (variable length)
6" x 12" x 14" Blockout

Possible Tabulation:
108-8C

Iowa Department of Transportation

REVISION
1 | 10-16-12

STANDARD ROAD PLAN

BA-210

SHEET 1 of 1

REVISIONS: Corrected rail height and plate dimensions. Removed plan view and updated notes.

Deanna Maifield
APPROVED BY DESIGN METHODS ENGINEER

GUARDRAIL POST ADAPTER UNIT