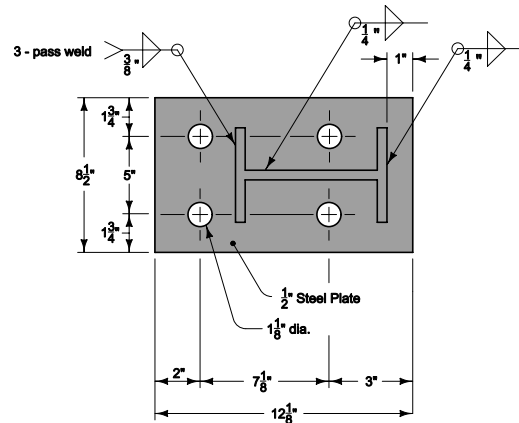
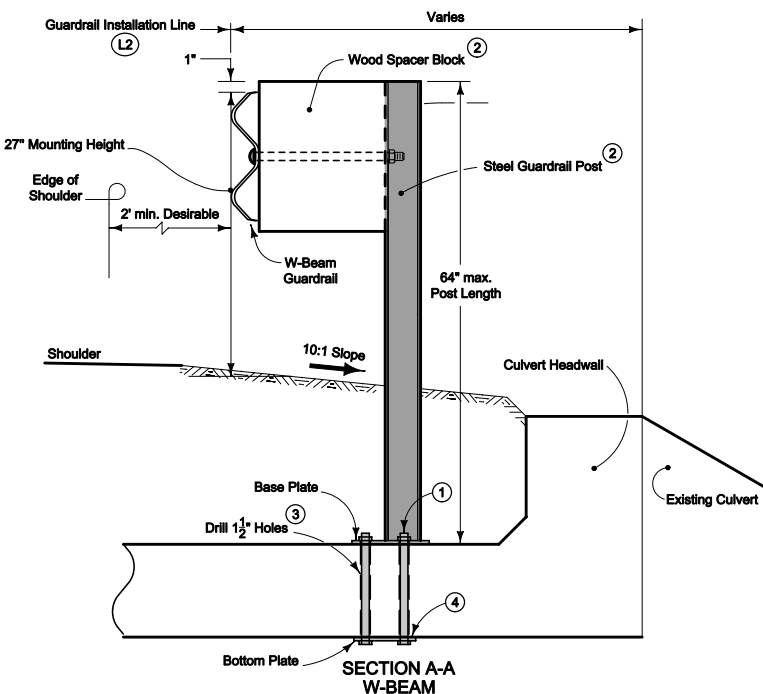
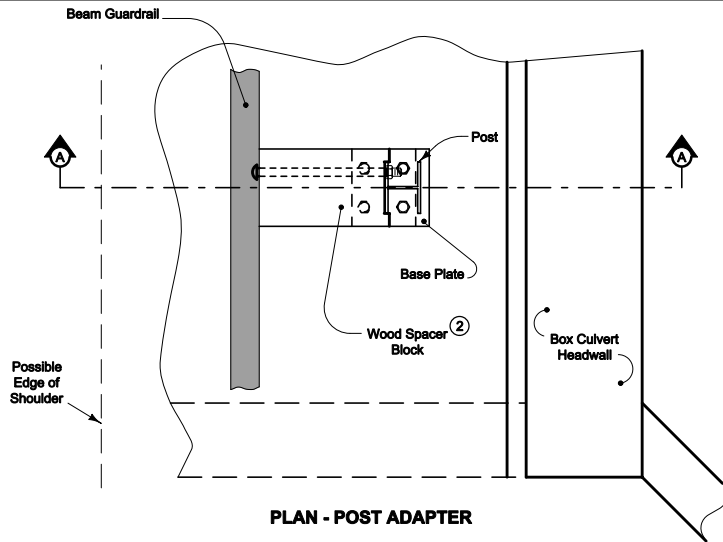


Provide steel guardrail posts and adapter unit on top of box culverts or similar situations when wood post embedments are not possible.

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

- Saw off top end to proper length and drill new holes.
- 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.

- Bolt length equals slab thickness plus 2 inches. Field clip topside washers if necessary to clear weld.
- See BA-200 for steel guardrail post and blockout details.
- Drill holes using equipment designed to cut through concrete and reinforcing steel.
- 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 8 1/2" x 1/2" ASTM A36 Steel Plate
- 1 - 11" x 8 1/2" x 1/4" 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 8" Wood Spacer Block (14" or 21 1/2" length)

Possible Tabulation:
108-8B

Iowa Department of Transportation STANDARD ROAD PLAN REVISIONS: New. Replaces RE-37. <i>Deanna Maifeld</i> APPROVED BY DESIGN METHODS ENGINEER GUARDRAIL POST ADAPTER UNIT	REVISION New 04-20-10 BA-210 SHEET 1 of 1
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