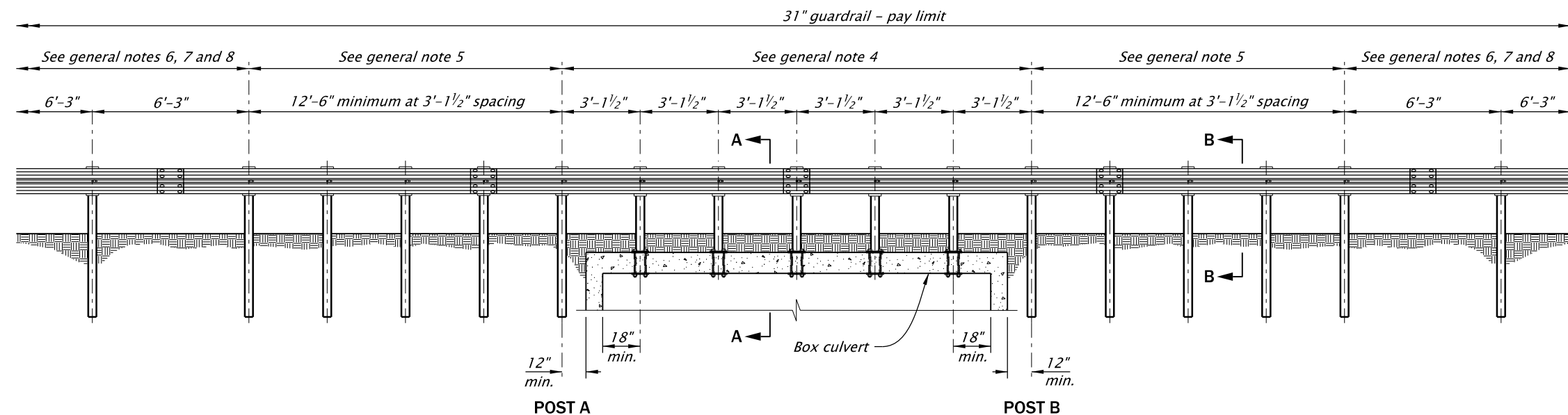
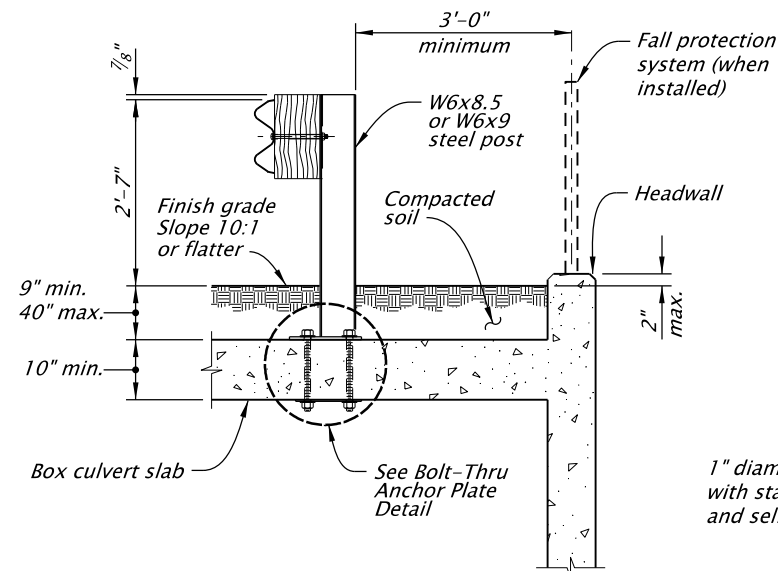
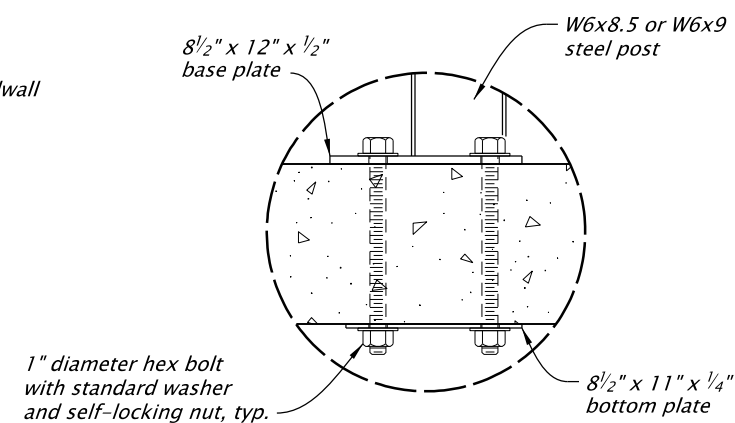




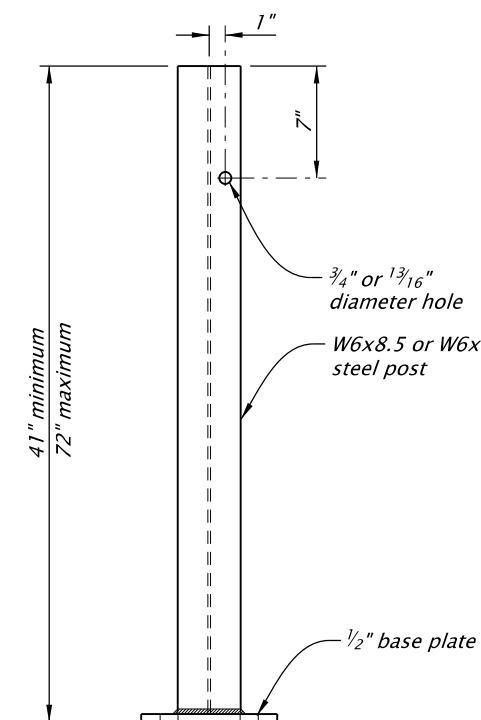
TYPICAL ELEVATION



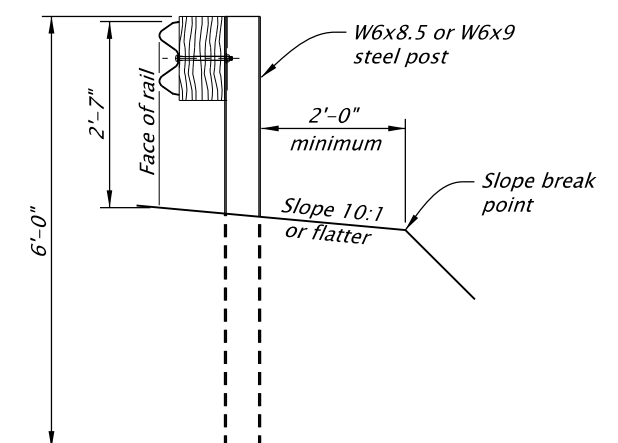
SECTION A-A
(BOLT-THRU ANCHOR)



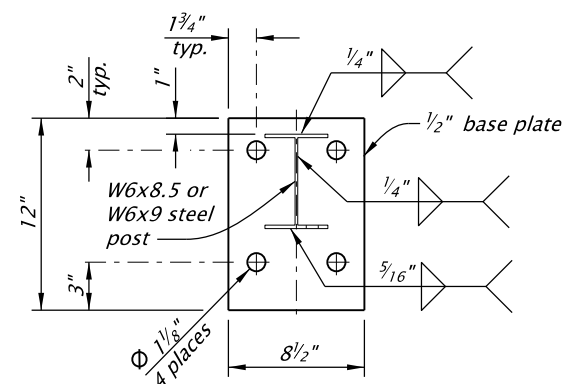
BOLT-THRU ANCHOR PLATE DETAIL



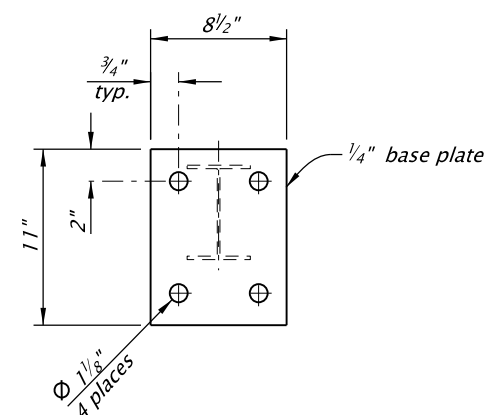
BOX CULVERT POST ASSEMBLY



SECTION B-B



BASE PLATE



BOTTOM PLATE

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. *See appropriate guardrail standard drawing(s) for details not shown.*
2. *It is acceptable to use a greater or lesser number of box culvert bolt-thru guardrail anchor steel post to increase or decrease the length of system as needed.*
3. *Guardrail shall be lapped in the direction of adjacent traffic.*
4. *Box culvert guardrail steel posts are not needed for fill depths greater than 40 inches. Drive standard 6 foot length guardrail posts into compacted soil and install guardrail per Standard Drawing RD407.*
5. *Install a minimum of 12 foot 6 inches of Type 31 guardrail at half-post spacing (3 foot 1½ inch) coming off edges of culvert.*
6. *Install at least 50 feet of Type 31 guardrail upstream and downstream from half-post spacing (3 foot 1½ inch) guardrail. Terminals and anchors included in length.*
7. *Install at least 12 foot 6 inches of Type 31 guardrail from end of half-post spacing (3 foot 1½ inch) guardrail before installing terminal or anchor.*
8. *Install at least 25 feet of Type 31 guardrail from end of half-post spacing (3 foot 1½ inch) guardrail before starting a taper or radius rail guardrail system.*

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

MIDWEST GUARDRAIL SYSTEM
BOX CULVERT BOLT-THRU ANCHOR
STEEL POST

2024

DATE		REVISION DESCRIPTION	
05-2023		NEW DRAWING CREATED	

CALC. BOOK NO. _____	N/A _____	SDR DATE 14-JUL-2023	RD473
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Effective Date: June 1, 2026 – November 30, 2026