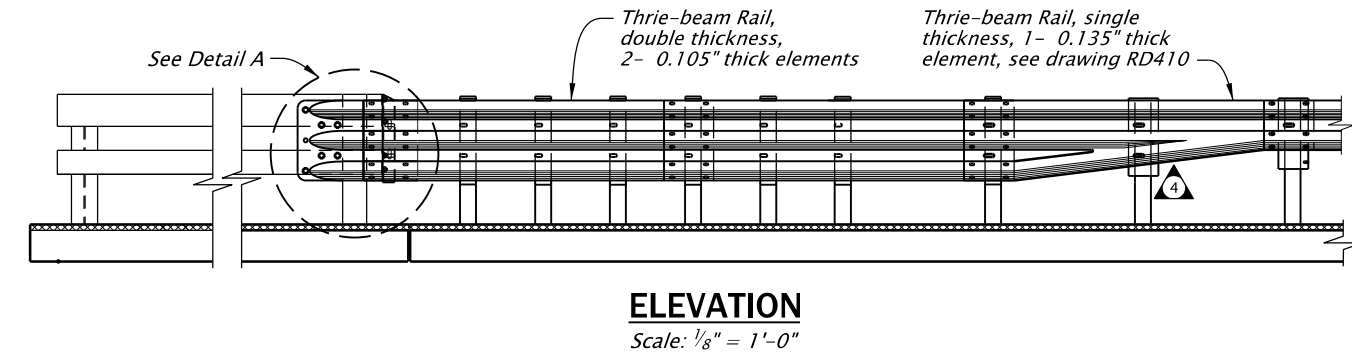
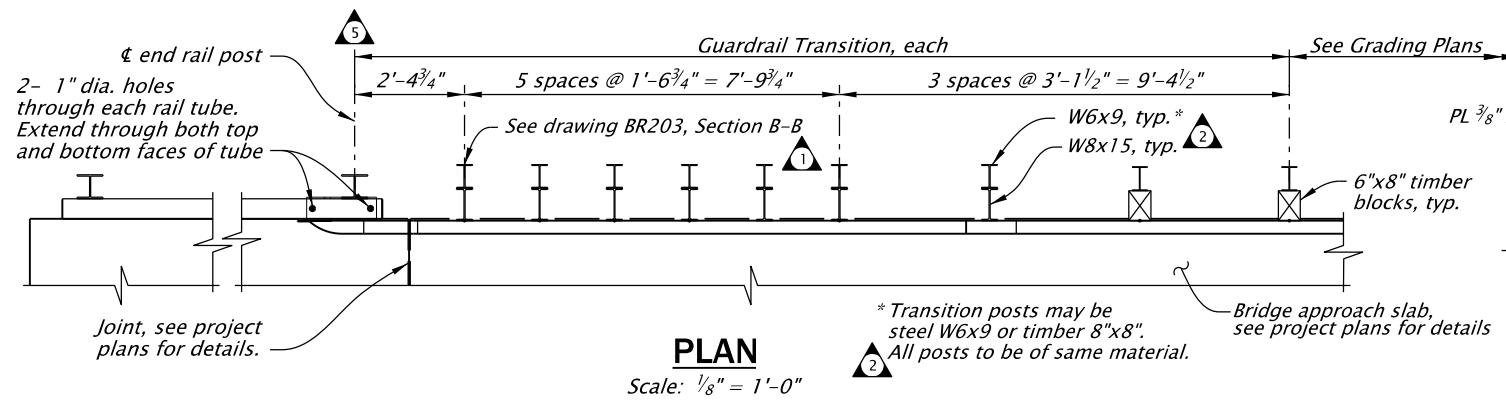
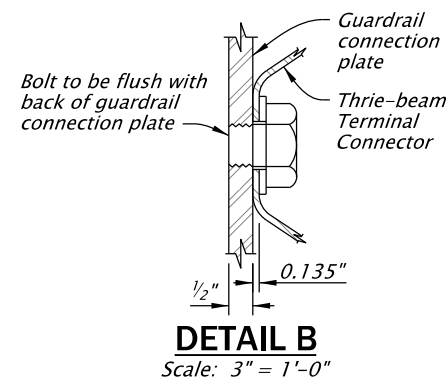
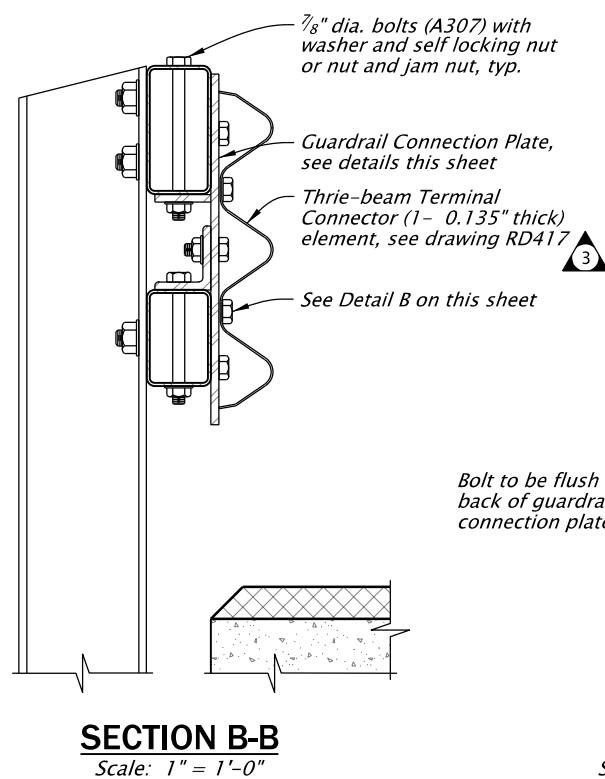
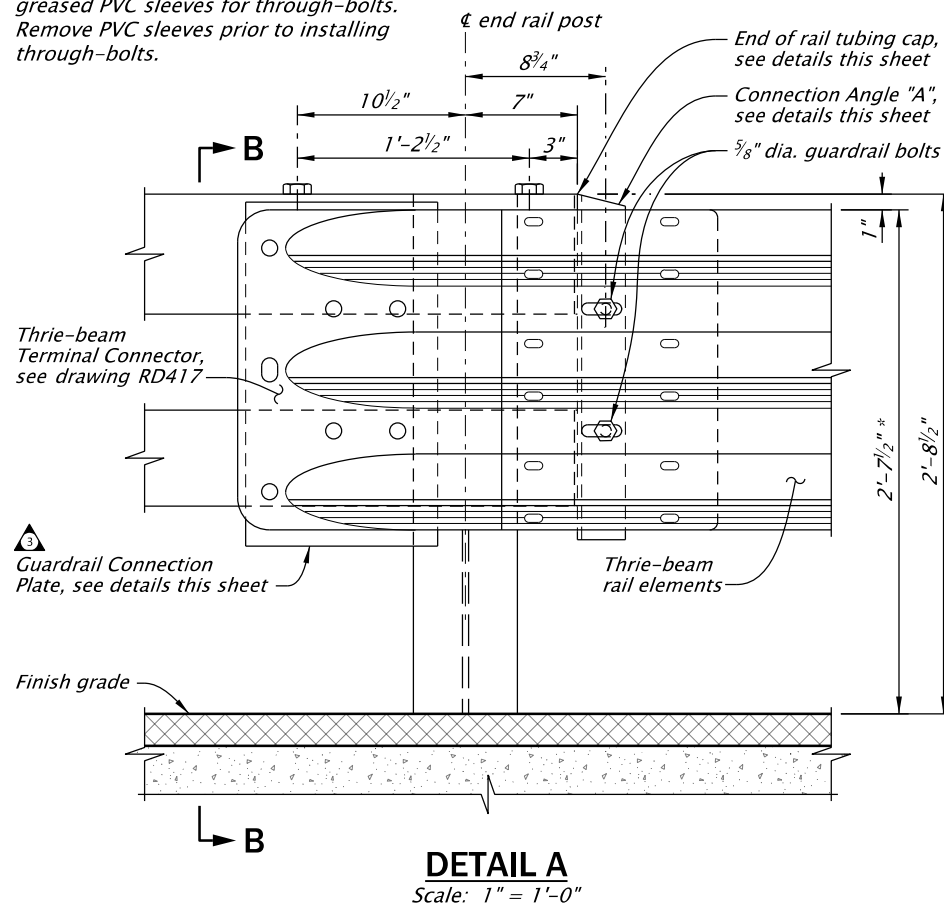




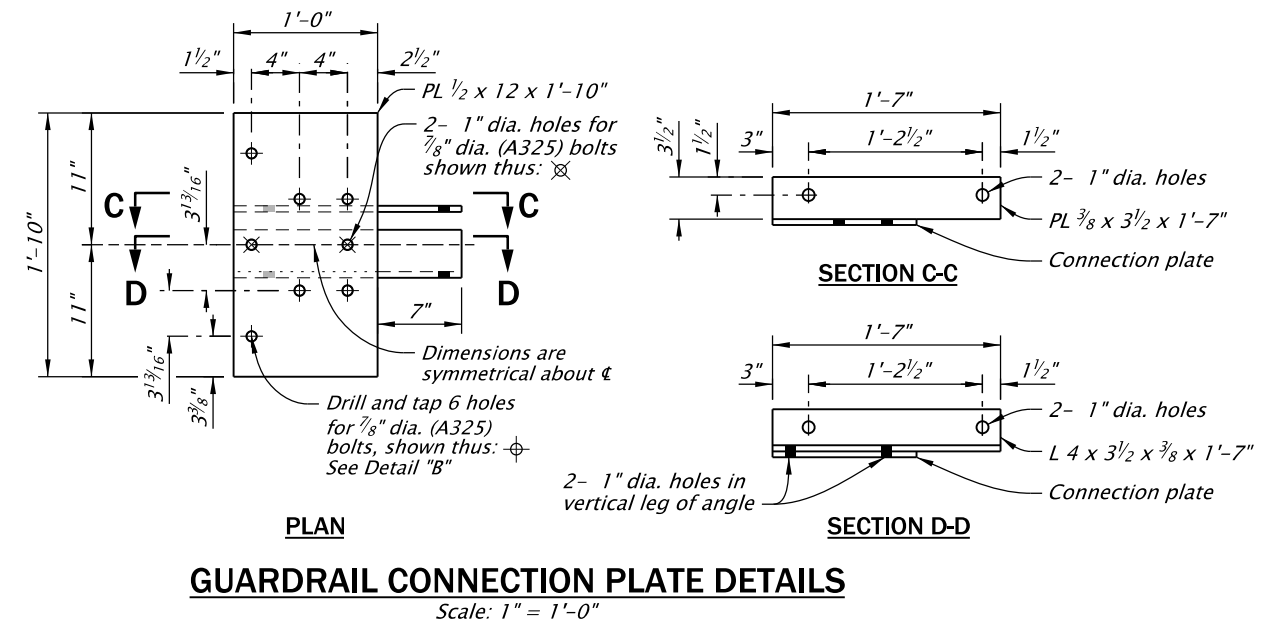
NOTES:

Drill horizontal holes (bolt dia. + $\frac{1}{8}"$) in hardened concrete with low-impact rotary drill. Cut bolts after installation so they extend $\frac{3}{4}"$ max. beyond nut. Grind smooth and cold galvanize.

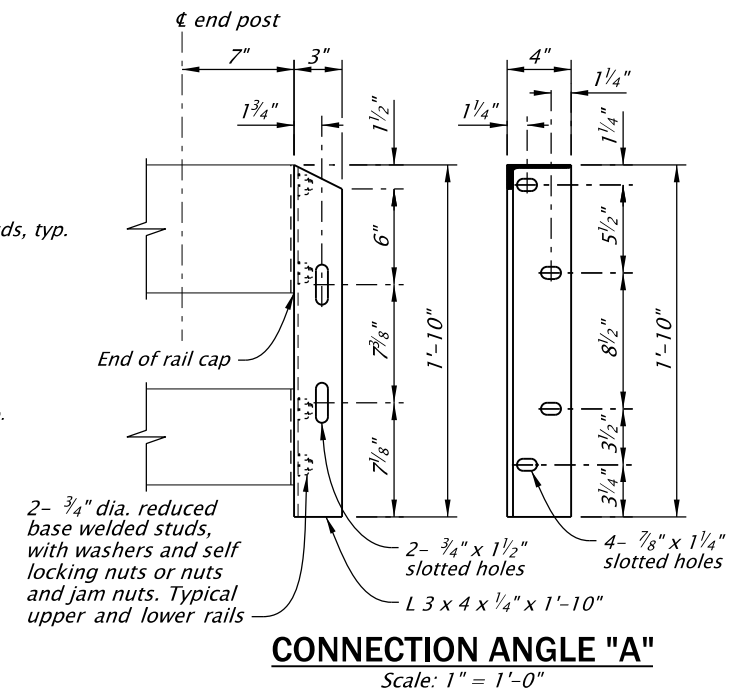
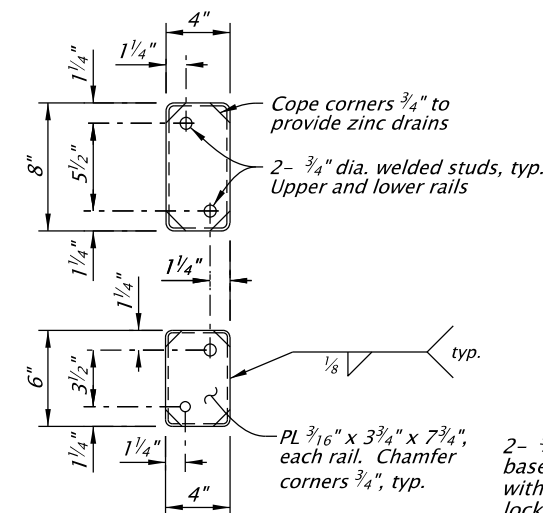
Contractor's option (or similar) to use greased PVC sleeves for through-bolts. Remove PVC sleeves prior to installing through-bolts.



ELEVATION



UPPER AND LOWER RAILS

Scale: $1" = 1'-0"$ 

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

2-TUBE SIDE MOUNT RAIL TRANSITION

2024

DATE	REVISION	DESCRIPTION
09-2020	Updated section note and removed note 3.	
01-2022	Replaced timber block with W8x15 to be consistent to BR203.	
07-2024	General text revisions.	
01-2025	Thrie-beam transition revised: CAD standards updates	
01-2026	Minor dimension line edit.	
CALC. BOOK NO.	N/A	SDR DATE: 13-JAN-2026

BR230

Effective Date: June 1, 2026 – November 30, 2026