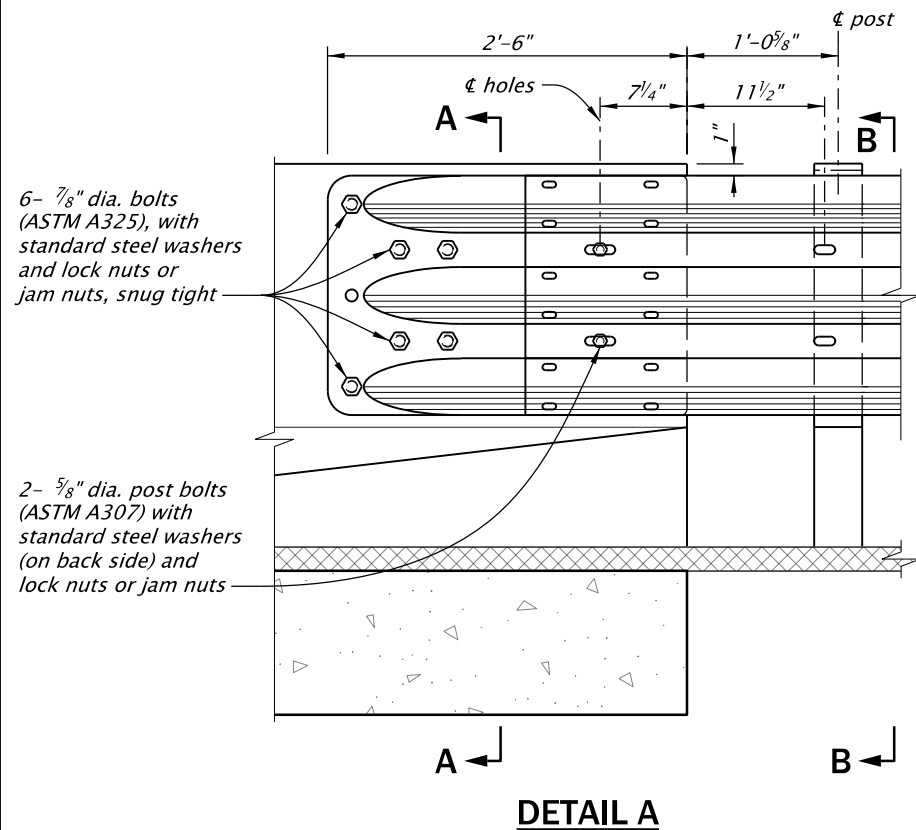
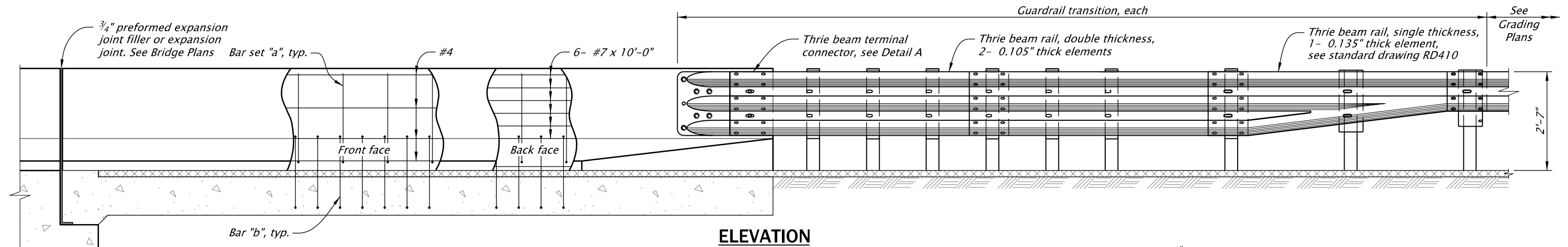
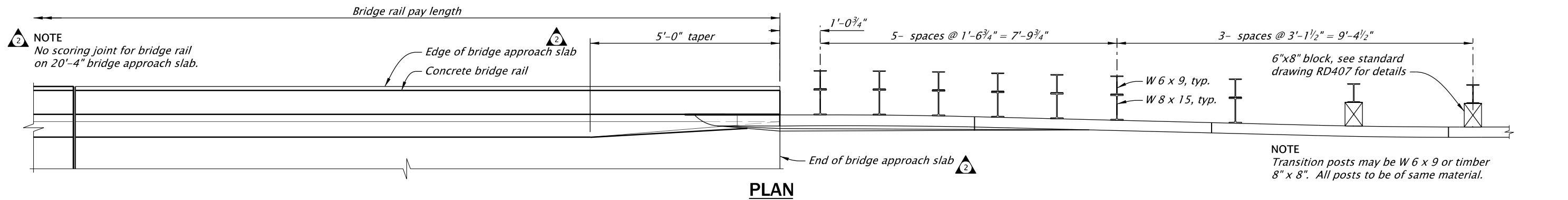
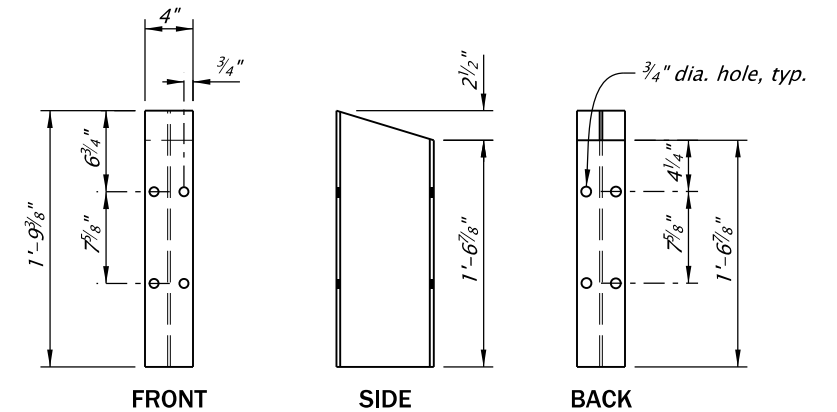
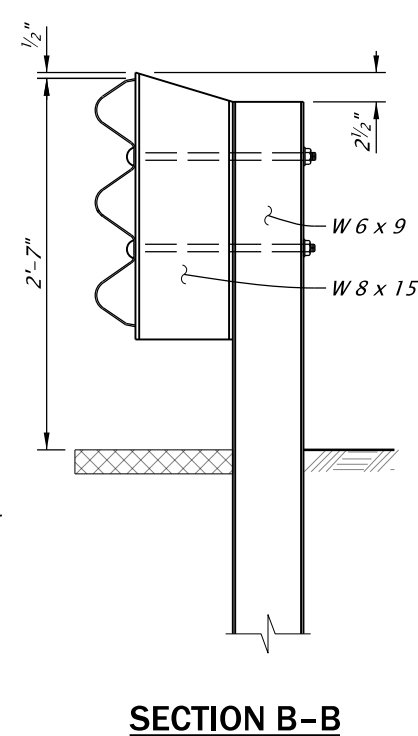
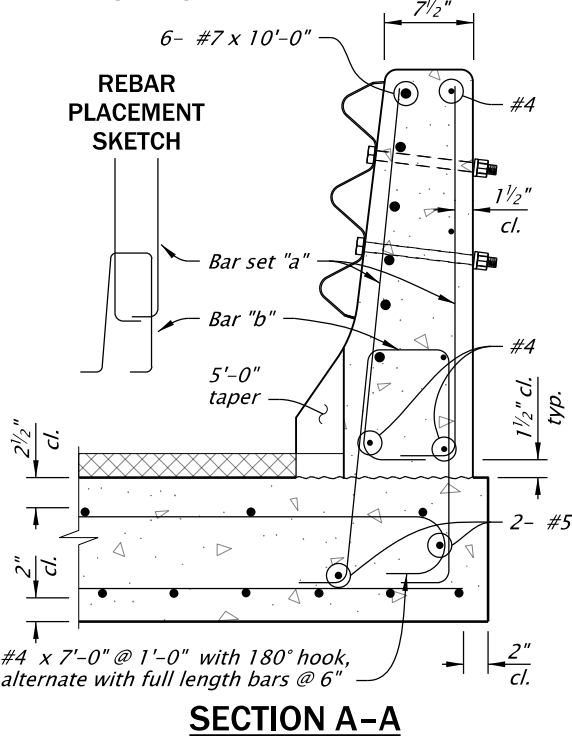




NOTE
Drill horizontal bolt holes (bolt dia. + 1/8") in hardened concrete with low-impact rotary drill. Cut bolts after installation so they extend 3/4" max. beyond nut. Grind smooth and cold galvanize.

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



GENERAL NOTES
Provide steel for wide-flange posts conforming to AASHTO M183 (ASTM A36).
Hot dip galvanize after fabrication.

Accompanied by drawings BR165, BR200, RD401, RD402, RD407, RD408, RD410, RD412.

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
TRANSITION TYPE "F"
CONCRETE RAIL TO
GUARDRAIL

2024

DATE	REVISION	DESCRIPTION
10-2020	Update:	Changed RD480 to RD482
01-2023	Revised	accompanied by dwg references, General text revisions.
01-2025	Added	contractor option note: CAD standards updates
CALC. BOOK NO.	N/A	SDR DATE: 10-JAN-2025

BR203

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