

Vertical Concrete Parapet

Parapet Flush Mount

PLAN-TRANSITION RAIL DETAIL
Scale: 1 : 25

ELEVATION - TRANSITION RAIL DETAIL
Scale: 1 : 25

ELEVATION-CONCRETE BRIDGE RAIL
Scale: 1 : 15

SECTION A-A
No Scale

TYPICAL RAIL SECTION
No Scale

	1060 Rail	1370 Rail
Concrete Volume	0.163	0.163
Reinforcement Mass	7.95	7.95
Coated Reinf. Mass	10.56	10.56
Structural Steel Mass	19.45	33.03
Total Rail Mass	428.5	441.9

GENERAL NOTES:

- All steel tubing shall conform to ASTM Specification A500, Grade B, A501 or A618.
- All reinforcing steel shall conform to ASTM Specification A706M, or AASHTO #31M (ASTM A615M) Grade 420. Splice #13 bars 325 mm min.
- Concrete shall be Class 25-37.5 or 19.0.
- All shear posts and plates shall conform to AASHTO Specification #183M or (ASTM A36M) unless otherwise noted.
- Construct rail (posts and parapet) normal to grade in the longitudinal direction and vertical in the transverse direction.
- All structural steel including fasteners shall be hot-dip galvanized after fabrication. Posts and parapet rail steel tubing shall have Galvalume-Coated Silicon. Galvalume-Coated Silicon means the silicon content of the base metal shall be in the range of 0 to 0.04 percent, or 0.15 to 0.25 percent. Top nuts and inserts 0.53 oversize after galvanizing in accordance with ASTM A563M.
- Use 1370 mm height for biteways when called for on project plans.

NOTE: All dimensions are in millimeters (mm) except as noted.

BR220

DATE	REVISION	BY

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 consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

BRIDGE NO.	STANDARD	SHEET
DATE	FLUSH MOUNTED COMBINATION BRIDGE RAIL	1 OF 2
CALL BOOK	GENERAL DETAILS	DRAWING NO.
315E		BR220

7/16/77 by 181 rander/els/br 220.dwg