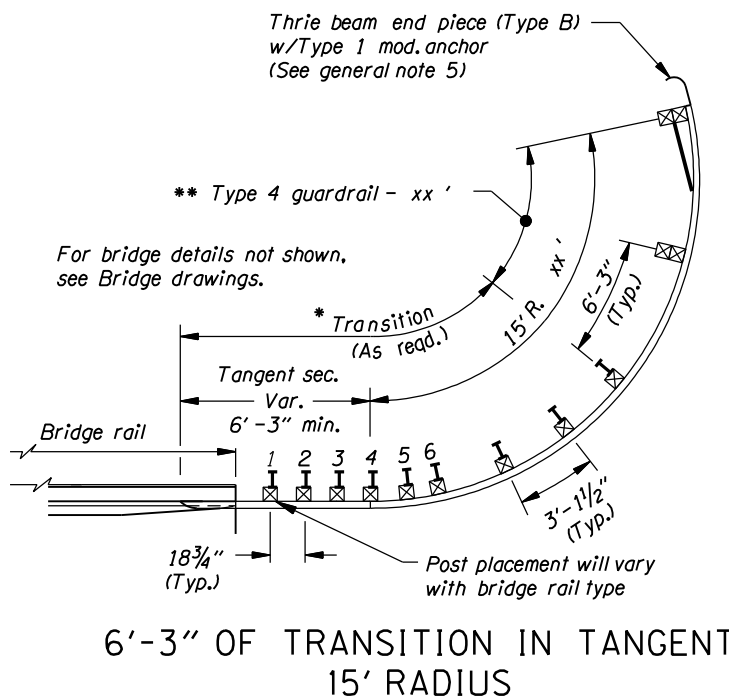




1. For transition details, see appropriate bridge standard drawings.
Eliminate thrie beam to W-beam rail element when type 4 rail is used.
2. Place radius identification plate (For details, see drg. no. RD415).
3. Shop fabricate all radius rail to dimensions shown (14'-9" radius is min. allowable for thrie beam rail).
4. Rail elements:
 - * Thrie beam rail:
2 - 12 gauge rail elements
 - ** Thrie beam rail:
1 - 12 gauge rail element
5. Anchor and end piece shown are to be used only for private driveways/approach roads. An approved end treatment is required on public roadways.

1. *Modify radii shown to meet specific conditions.*
2. *Use these details only:*
 - a. *If driveway or approach road can't be relocated.*
 - b. *If normal transition, 12'-6" of type 3 rail and an approved end terminal can't be installed due to site constraints.*
 - c. *If weak post guard rail radius can't be installed due to site constraints.*
3. *If speed is $\leq 45\text{mph}$, omit posts 1, 3, and 5.*
4. *Include appropriate references to standard drawings.*

The selection and use of this detail, 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.

OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

BRIDGE RAIL END PROTECTION (TYPE 4 RAIL)

DETAIL NO.

DET1455