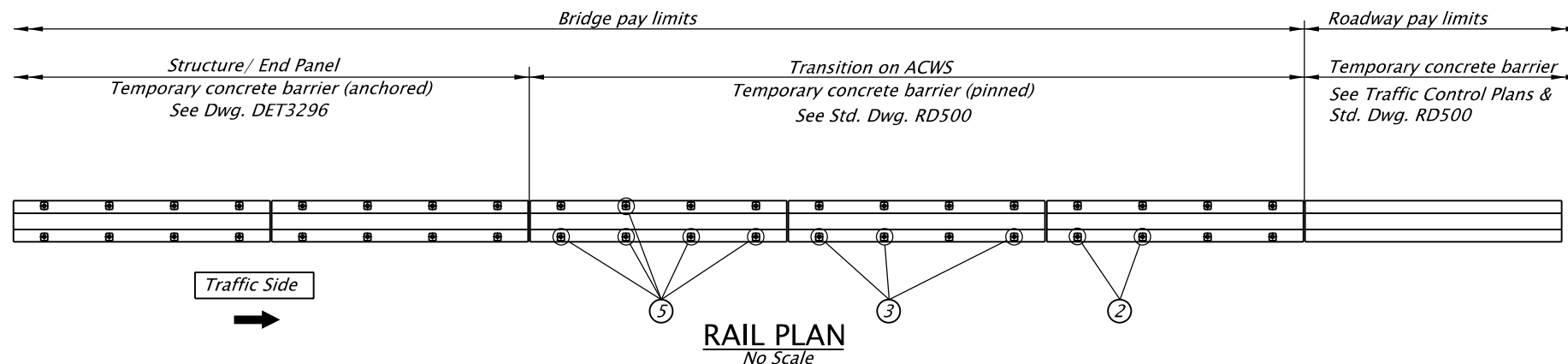
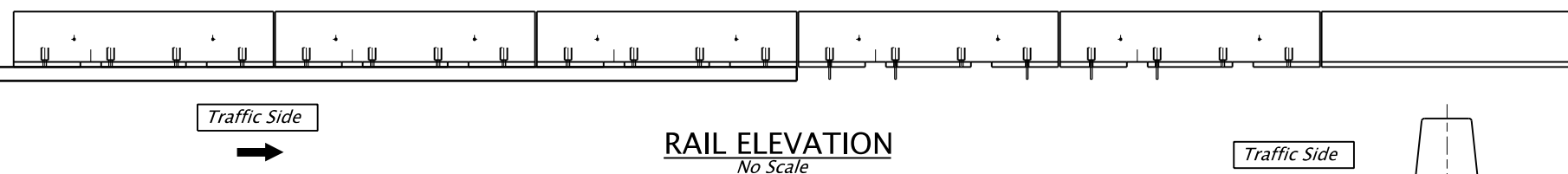
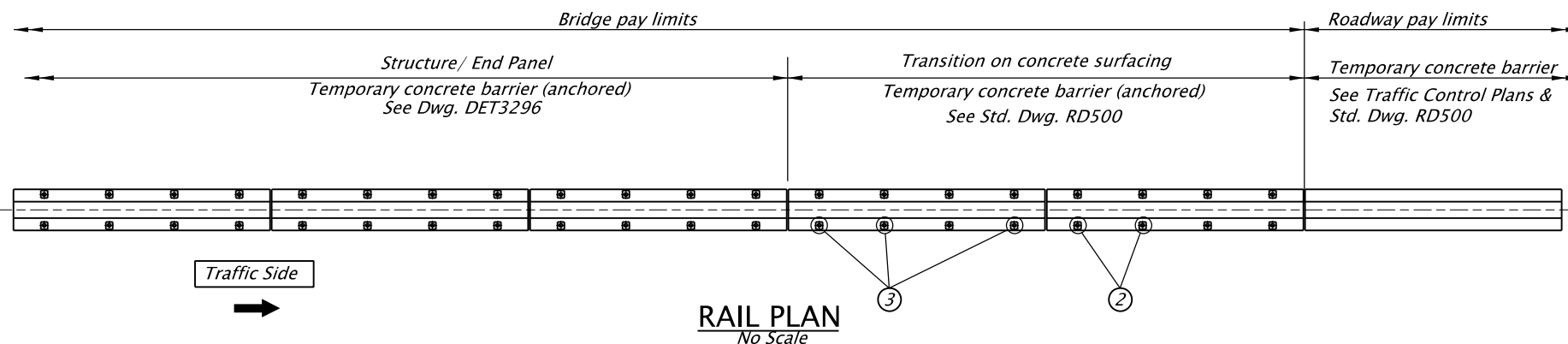
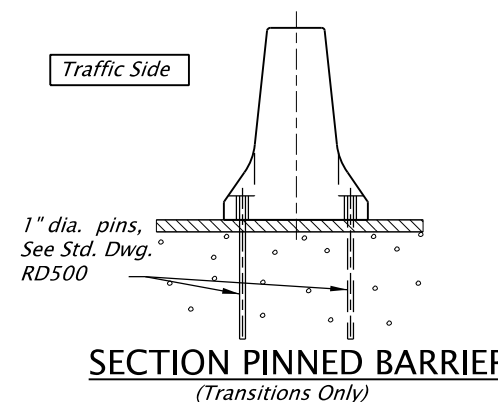


**TEMPORARY BARRIER ON ACWS**



**TEMPORARY BARRIER ON CONCRETE SURFACE**



### General Notes

Provide all materials and perform all work according to the Oregon Standard Specifications for Construction 2018.

*Note to Designer:*  
Use subsection 00587.44 when temporary barrier on bridge is required.

Temporary barrier is designed for NCHRP350 TL-3 loads in accordance with the AASHTO LRFD Bridge Design Specifications 4th Edition 2007 with 2009 Interim Revisions, Section 13.

All barrier is precast pin and loop type. See dwg. DET3296.

Provide all reinforcing steel according to ASTM A706, or AASHTO M31 (ASTM A615) Grade 60.

Provide Class 5000- 1½, 1 or ¾ concrete in precast barrier segments.

Provide 1" diameter Grade 36 anchor bolts, nuts and washers according to ODOT Specification 02560.30.

Provide plate washers according to AASHTO M270 (ASTM A709) Grade 36.

Provide and install 1" diameter Grade 36 resin bonded anchors according to ODOT Specification 00535.

Provide the following minimum design resistances for 1" diameter resin bonded anchors:  
Tension 22,600 lb., Shear 14,000 lb.

Bolt-down barrier should not be installed on AC wearing surface, due to excessive bolt bending in an impact.

**Removal of Anchor Bolts:** Upon removal or relocation of barrier units, remove all anchor bolts and completely fill the remaining holes in bridge decks and approach slabs with an approved patching material from the QPL. If ACWS overlay is present and is to remain, completely fill the remaining holes with hot or cold patch asphalt material.

### Anchor Requirements

#### On Structure:

**Anchored barrier:** 4 anchors per barrier segment on traffic side, through bolted or resin bonded.

#### Transitions:

**On Concrete Surfacing:** Two barrier segments, resin bonded anchors, numbers and locations as shown.

**On AC Surfacing:** Three barrier segments, 1" dia. vertical pins per Std. Dwg. RD500, numbers and locations as shown.

(N) "N" = Number of anchors or pins per barrier segment, at locations shown.

Accompanied by DET3296, RD500

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

**TEMPORARY PRECAST  
CONCRETE BARRIER PIN  
AND LOOP / ANCHORS 1**

DETAIL NO.  
DET3295