The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any of this standard to other formats or for incorrect results or damages resulting from its use.

FILE: 3

1'-0" side
Traffic wingwall
Top of connector

7
6
5
3
2
1

AT EXISTING ABUTMENT BENTS

Existing wingwall length (Variable) 5'-0" Min

Precast rail shown is detailed for one side only, other side similar.

For other side precast rail must be built for opposite hand.

Rail joints can occur on spans between centerline of bents.

Fill access pockets with Type A-4, vertical or overhead repair material in accordance with TxDOT Guide for Precast Traffic Rail. Place Class 4 sealant in accordance with Item 429, "Concrete Construction Joint". Increase 2" for structures with overlay.

Anchor bolts must be 1" Dia ASTM 449 or A193 Grade B7 fully threaded rods, with one heavy hex nut that conforms to ASTM A563 requirements, and one 9/16 x 3 x 3 plate washer (ASTM A426) with a centered 3/8 Dia hole. Fully threaded rods are connected with a Type 102 11/4" x 3/4" x 3/4 x 3/4 plate washer (ASTM A36) with a centered 1" Dia hole. Fully threaded rods are connected with a Type 102 11/4" x 3/4" x 3/4 x 3/4 plate washer (ASTM A36) with a centered 1" Dia hole.

Drains should not be placed over railroad tracks, lower roadways, or sidewalks.

End of bridge rail for plain rail.

Anchor bolts are not shown for clarity.

5 - 1" Dia fully threaded rods (ASTM A449 or A193 Grade B7) each with one heavy hex nut that conforms to ASTM A563 requirements. Embed threaded rods into concrete parapet with a Type III Class C, D, E, or F anchor adhesive. Minimum adhesive anchor embedment depth is 6". Anchor adhesive chosen must be able to achieve a basic bond strength in tension, Min. 2000 psi. Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor and installation methods to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean-out, must be in accordance Item 450, "Railing".

Rails must be in accordance with Item 450, "Railing".

Surface must be clean of any overspray, dust or debris.

Reviewed and signed:

September 2019

Sheeted 1 of 2

END OF TRAFFIC RAIL

Guide for Precast Traffic Rail

(TYPE T22P)

NOT TO BE USED AS A STANDARD

Texas Department of Transportation

Bridge Design Standard

ELEVATION

Rail joint located at all bent locations. See "Rail Joint Plate Detail".

Rail joint plate (shown) at rail joints. See "Rail Joint Plate Detail".

Rail joint plate (shown) at rail joints. See "Rail Joint Plate Detail".