MEMO
March 19, 2018

To: District Engineers

From: Gregg A. Freeby, P.E.
Bridge Division Director

Subject: New and Revised Bridge Railing and Rail Anchorage Standard Drawings

New and revised bridge railing and rail anchorage standard drawings, with issue and revision dates of March 2018, are posted on the TxDOT web site and available for immediate use. The following rails are new or have been revised:

New Type T2P traffic rail
- 42 in. tall
- 9-inch concrete parapet with a round steel-top tube, and two rectangular steel tubes.
- Tubes are supported by steel posts spaced a maximum of 8 ft. apart.

New Type C2P combination rail
- 42 in. tall
- Approved for MASH TL-4.
- 9-inch concrete parapet with a round steel-top tube, two rectangular steel tubes, and a picket panel mounted on the back side of railing.
- Tubes are supported by steel posts spaced a maximum of 8 ft. apart.

New Type T222 traffic rail
- 36 in. tall vertical parapet
- Approved for MASH TL-4.

New Type PR11 and PR22 pedestrian rails
- 42 in. tall
- Replaces the existing Type PR1 and PR2 pedestrian rails.
- Designed for pedestrian loads only.
- Improves upon their predecessors by including an adhesive anchor option for anchoring the rail to concrete.

Revised Type T631 and T631LS traffic rails
- Updated to accommodate the same steel post for structures with and without 2” of overlay.
- Update is expected to make it easier and quicker for steel post replacement when the rail is damaged.
• With this revision the rail manufactures/suppliers have the option to stock one steel post. Rail manufacturers/providers have the option to use the remaining back stock of the two existing post heights.

Type T77 traffic rail
• Retired and the details withdrawn from the Bridge Standards webpage.
• No longer recommended for new construction.

Type T1P traffic rail
• Withdrawn from the Bridge Standards webpage.
• Use the new Type C2P combination rail in its place.
• Type T1P is approved for MASH TL-3 and can be provided upon request. Contact the Bridge Division for working drawings.

Various revisions have been made to numerous railing and rail anchorage standards (decked slab beams, slab beams, box beams, concrete slab and girder spans, culverts, and retaining walls), which include: updating the approved crash test level (TL); updating adhesive anchor options; and editorial revisions.

These revised standard drawings apply to construction projects beginning with the September 2018 letting. Prior use is at the option of each District.

These and other bridge standard drawings are available on the Bridge Standards web page in MicroStation® “dgn” and Adobe® Acrobat® “pdf” formats. See http://www.dot.state.tx.us/business/standardplanfiles.htm.

For questions or comments concerning these standard drawings, please contact Taya A. Retterer, P.E. at 512/416-2719 or Jon T. Ries, at 512/416-2191.

Note: Original Signed By Gregg A. Freeby

CC: Federal Highway Administration
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