



MEMO

July 09, 2020

To: District Engineers

From: Graham Bettis, P.E.
Division Director, Bridge Division

Subject: New and Revised Bridge Railing Standard Drawings

New and revised bridge railing standard drawings, with issue date of July 2020, are posted on the TxDOT web site and available for immediate use. These are:

- **T80PP Traffic Rail and Traffic Rail Foundation (T80PP-RF)** – This new standard provides details for a 54” single slope traffic rail with independent foundation options for pier protection.
- **Two Sided T80PP Traffic Rail (T80PP-TS)** – This new standard provides details for constructing the T80PP-RF within the median where the rail wraps around both sides of the column(s) for double sided pier protection.
- **Traffic Rail Foundations for MASH TL-5 Bridge Rails (TRF80)** – This new standard provides independent traffic rail foundation options for MASH TL-5 bridge rails. The foundation options are a grade beam (TRF80-GB) or a moment slab (TRF80-MS).
- **Traffic Rail Foundations for MASH TL-2, TL-3, and TL-4 Bridge Rails (TRF)** – The TRF was updated to include a moment slab option and to set minimum lengths if not pinned to a structure. The foundation options are now a grade beam (TRF-GB) or a moment slab (TRF-MS). The TRF was verified to meet MASH TL-4 load requirements. In addition, the developed surface for curved T551 and SSTR bridge rails were moved to a separate standard, the new **Traffic Rail Developed Surfaces (TRDS)** standard.
- **Retrofit Guide for Concrete Rails (C-RAIL-R)** – The retrofit details were verified to meet MASH TL-3 and TL-4 where applicable. Notes on C-RAIL-R standard have been updated to reflect this.
- **Retrofit Guide for Concrete Curb Rails (CC-RAIL-R)** – This new standard provides a guide to retrofit details for steel rails mounted on curbs, like the T2P and T1W.
- **Concrete Rail Joints over Inverted-T Bents (CRJ-ITB)** – This new standard provides details on how to handle rail joints over inverted-T bents that have joints on each side of the stem.
- **Traffic Rail T411/C411 (Type T411/Type C411)** – Updated star suppliers.
- **Traffic Rail T631/ T631LS (Type T631/Type T631LS)** – Added notes to allow for one short W beam section at the end of the structure in order to achieve the required W beam splice location.

These revised standard drawings apply to construction projects beginning with the January 2021 letting. Use of these revised standards prior to January 2021 is at the discretion of each District.

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

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 Graham Bettis

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