



MEMO

September 16, 2019

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 and traffic rail foundation standard drawings, with issue and revision dates of September 2019, are posted on the TxDOT web site and available for immediate use. The following rails are new or have been revised:

All rails

- Revised joint filler between wingwall and approach slab to match the BAS-A and BAS-C standards.
- Added details for Plan of Rail at Expansion Joints

T402/C402

- Approved for MASH TL-4 with speed restrictions based on appropriate guard fence transition.

T411/C411

- Approved for MASH TL-2

C412

- Approved for MASH TL-5 with speed restrictions based on appropriate guard fence transition.
- Increased level of reinforcement for higher test level.

T1W

- Approved for MASH TL-3 with speed restrictions based on appropriate guard fence transition.

C1W

- Approved for MASH TL-4 with speed restrictions based on appropriate guard fence transition.

T66/C66

- Approved for MASH TL-3 with speed restrictions based on appropriate guard fence transition.
- Updated reinforcement to simplify construction.

New Motorcycle Net (MN)

- Chain link fence and post design to contain and redirect motorcycle riders if ejected from the motorcycle upon impacting the bridge rail.
- Bid Code - 450-6118 RAIL (MN) LF

OUR VALUES: *People • Accountability • Trust • Honesty*

OUR MISSION: *Through collaboration and leadership, we deliver a safe, reliable, and integrated transportation system that enables the movement of people and goods.*

An Equal Opportunity Employer

CLF-RO

- Revised to make payable and no longer subsidiary
- Bid Code - 450-6119 RAIL (CLF-RO) LF

T2/T201TR, T202TR, T5/T501/T502TR Thrie-Beam Transition Retrofit Guides

- Revised to make payable and no longer subsidiary
- Bid Code - 540-6037 MTL BM GD FEN TRANS (ANCHOR PLATE) EA

Type T401 traffic rail

- Retired and the details withdrawn from the Bridge Standards webpage.
- Use the T402 rail in its place
- No longer recommended for new construction.

Traffic Rail Foundation (TRF)

- Added allowance for WWR alternate.

These revised standard drawings apply to construction projects beginning with the January 2020 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 Graham Bettis

CC: Federal Highway Administration
Bridge Design Consultants
Engineering Operations
Directors of Transportation Planning and Development
District Design Engineers
District Bridge Engineers
District Bridge Coordinators
Bridge Division