



MEMO

July 2, 2013

To: District Engineers

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

Subject: New Bridge Railing and Revised Rail Anchorage Standard Drawings

New bridge railing standard drawings, a new retrofit guide drawing, and revised rail anchorage standard drawings, dated July 2014, are posted on the TxDOT web site and available for immediate use.

New bridge railing standard drawings and retrofit guide drawing include:

T1P

- New aesthetic bridge rail, with picket panels
- Approved for high speed, TL-3 installation
- Bid code is 0450 2662 RAIL (TY T1P)

T631

- New W-beam bridge rail with posts spaced at 3'-1 1/2"
- Approved for high speed, TL-3 installation
- MBGF is attached directly to the bridge rail, with no MBGF transition
- Bid code is 0450 2655 RAIL (TY T631)

T631LS

- New W-beam bridge rail with posts spaced at 6'-3"
- Approved for low speed, TL-2 installation
- Requires a minimum of 2 soil-embedded CRT posts immediately off the bridge, in lieu of a MBGF transition
- Bid code is 0450 2661 RAIL (TY T631LS)

C66

- New 42" tall, combination version of the T66 aesthetic bridge railing
- Approved for low speed, TL-2 installation
- Nominal face of rail (1'-6") and weight of rail make it inappropriate for use on standard roadway width bridges
- Bid code is 0450 2654 RAIL (TY C66)

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T5/T501/T502TR

- New guide drawing for preparation of MBGF transition retrofit details on existing T5/T501/T502 rails
- This drawing must be modified for the specific installation and signed/sealed by a licensed PE
- Limits on applicability of use are provided in the drawing
- Payment for this transition retrofit is per Item 540

The revised rail anchorage standard drawings include the following changes:

PSBRA, BBRAS, DSBRA, CGRAD

- Removal of anchorage details for retired rails T101 and T6
- Addition of anchorage details for new rails T631 & T631LS
- All cover dimensions shown as clear dimensions and bar dimensions are out-to-out of bar
- Revision of General Notes

These new and revised standard drawings apply to construction projects beginning with the December 2014 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 Amy E. Smith, P.E. at 512/416-2261 or Jon T. Ries, at 512/416-2191.

Note: Original Signed By Gregg A. Freeby

CC: Federal Highway Administration
Bridge Design Consultants
Administration
Division and Office Directors
Directors of Transportation Planning and Development
District Bridge Engineers
Bridge Division Employees