



MEMORANDUM

TO: District Engineers

DATE: February 21, 2012

FROM: Gregg A. Freeby, P.E.

SUBJECT: New and Revised Interior Bent Standard Drawings

New and revised interior bent standard drawings, with an issue/revision date of February 2012, are posted on the TxDOT web site and are available for immediate use.

New trestle bent standard drawings for X-beams, with a **BTXB-** prefix, are provided as alternatives to bents with round columns when the spans use either 5XB20 or 5XB28 beams. To use these bent details for bents supporting unequal span lengths, the short span to long span ratio must be at least 0.8.

Prestressed I-girder trestle bent standard drawings are revised as follows:

- HP16 x 101 piles are allowed as a contractor option to HP14 x 73 piles
- HP18 x 135 piles are provided as a steel pile alternative to 20" concrete piles
- Pile embedment dimension is referred to the FD standard

Prestressed box beam and prestressed decked slab beam interior bent standard drawings are revised as follows:

- HP16 x 101 piles are allowed as a contractor option to HP14 x 73 piles
- HP18 x 135 piles are provided as a steel pile alternative to 20" concrete piles
- Pile embedment dimension is referred to the FD standard
- Short to long span ratio for pile supported bents must be 0.8 or greater

Steel beam interior bent standard drawings are revised as follows:

- HP16 x 101 piles are allowed as a contractor option to HP14 x 73 piles
- HP18 x 135 piles are provided as a steel pile alternative to 20" concrete piles
- Pile embedment dimension is referred to the FD standard
- Short to long span ratio for pile supported bents must be 0.8 or greater
- Added a third column to all bents previously detailed with two columns

Prestressed slab beam, CIP slab span, and concrete slab and girder (pan form) interior bent standard drawings are revised as follows:

- HP16 x 101 piles are allowed as a contractor option to HP14 x 73 piles

These revised standard drawings apply to construction projects beginning with the August 2012 letting. Prior use is at the option of each District.

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

If you have questions or comments concerning these standard drawings, please contact John M. Holt, P.E., at (512) 416-2212, 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