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September 10, 2014

**To:** District Engineers

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

**Subject:** New and Revised Miscellaneous Standard Drawings

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New and revised miscellaneous standard drawings, with revision or issue dates of September 2014, are posted on the TxDOT web site and available for immediate use. The drawings include the following changes:

#### Common Foundation Details (FD)

- Removed grade 40 reinforcing steel option
- Revised column lap and embedment lengths to reflect grade 60 reinforcing steel
- Set top of drilled shaft to 1'-0" minimum below finished grade for all crossings
- Detailed with clear cover dimensions and out-to-out bar dimensions

#### Prestressed Concrete Panels – Deck Details (PCP)

- Clarified beam end and bearing pad adjustments required when Option 2 panel placement is used
- Provided detail for Option 2 panel placement at inverted-T bents
- Detailed with clear cover dimensions and out-to-out bar dimensions

#### Prestressed Concrete Panel Fabrication Details (PCP-FAB)

- Reduced strand jacking force to 14.4 kips
- Reduced concrete release strength to  $f'_{ci} = 3,500$  psi

#### Miscellaneous Details – Steel Girders and Beams (SGMD)

- Addition of the split-pipe bearing stiffener. This stiffener was developed through research by TxDOT and UT-Austin.
- Changed stud connector option for use with PCP
- Revised allowable bending radius for flange plate in dapped girder end
- Revision of flange width transition details
- Addition of flange thickness transition details
- Addition of welded field splice details, currently found in Item 448 of the 2004 Standard Specifications
- Requirement to use galvanized bolts in painted girder structures
- Revision of General Notes

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MAINTAIN A SAFE SYSTEM ▪ ADDRESS CONGESTION ▪ CONNECT TEXAS COMMUNITIES ▪ BEST IN CLASS STATE AGENCY

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### Stone Riprap (SRR)

- New standard for stone riprap
- Provides details and figures currently found in Item 432 of the 2004 Standard Specifications

These new and revised standard drawings apply to construction projects beginning with the March 2015 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 this standard drawing, 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

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District Bridge Engineers  
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