

MEMORANDUM

DEPARTMENT OF TRANSPORTATION
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Date: June 29, 2004

To: All Bridge Worksheet Users

Signature on File

From: Mark A. Leonard, Bridge Branch Manager

Subject: CDOT Bridge Worksheet Revisions

The CDOT Bridge Worksheets have recently been updated. This update involves 33 worksheets.

The following is a summary of the revisions.

B-INDEX-1 & 2: Updated.

B-000-1: Modified the layers and dimension styles to create a more standard template.

B-100-1: Added strengths for post-tensioned concrete and for precast prestressed concrete. Added note to require that approach slab concrete to be treated as bridge deck concrete. Changed steel references to read AASHTO M-270 GRADE XX (ASTM A-XX). Removed spec13.shx from the text style named "Standard".

B-504-A1 to C3: Revised design to incorporate shoring as per OSHA Standards. Modified the drainage system to provide better moisture removal.

B-504-S1: Added new sheet for shoring details for excavation of Mechanically Stabilized Earth walls.

B-512-1: Modified the note to the Designer to include both methods of determining laminated bearing hardness.

B-512-2: Modified the note to the Designer to include both methods of bearing hardness. Added a note to increase bearing dimensions for construction tolerance.

B-512-3B: Added a note to the Designer/Detailer to increase the bearing dimensions for construction tolerance. Modified the Acceptable Alternatives list. Added a fabric pad alternative for the 1/8" lead sheet.

B-512-4S: Added a note to the Designer/Detailer to increase the bearing dimensions for construction tolerance.

B-518-1: Added Grade Projection Scheme and clarified construction of the Minimum Support Bracket Requirements.

B-518-1B: Modified the rail height in Section A to reflect the correct height of 35". Also, modified the cover plate details to completely cover the rail.

B-518-1BF: A New sheet. Detail showing Minimum Support Requirements for expansion device placed at back face of abutment.

B-518-P: Added design data table with predicted movement. Added table with suggested bridging plate sizes. Added reference to ASTM D 6297. Added to list of acceptable suppliers. Added climate and site conditions note. Added an estimated quantity of joint material note. Added requirement for centralizing pins or bars to keep bridging plates in place.

B-518-PA & PC: Deleted. These sheets replaced by B-518-P

B-601-1, 1EA & 1EC: Added notes to cure approach slab concrete as bridge deck concrete per subsection 601 and to cover the top of any post-tensioning blocks with 1" polystyrene foam.

B-601-1BF: New sheet. Detail shows expansion device at back face of abutment with no joint at sleeper slab.

B-601-4C & 4S: Changed the Designer note to reflect that 3.5" panels are the preferred thickness. Changed the finish note on the Prestressed Panel Details to match the CDOT Standard Specifications.

B-606-745: New sheet. TL-4 Type 7 Bridge Rail, 45 inches tall. For use with new sheet B-607-778 to accommodate railroad splash fences 10' tall.

B-606-10: Reference the M-Standards for the 3G and 3H Transitions.

B-606-10A: Modified Backing Plate detail to better match the terminal section and added note to field drill two holes.

B-607-778: New sheet. 6'-6" tall Splash Fence for use with B-606-745 Type 7 Bridge Rail. This sheet in conjunction with B-606-745 will create the required 10' tall splash barrier for bridges over a railroad.

B-618-DF: Modified Intermediate Diaphragm Details and Detail B to show A307 bolts. Changed the wording of the note concerning zinc plating and removed the shop drawings note. Added the weight per foot of each girder section to assist in determining crane pick requirements.

These updates and all of the worksheets are available through the CDOT bridge web page.

<http://www.dot.state.co.us/DevelopProjects/DesignSupport/Bridge/Worksheets/Worksheets.htm>

Please review and become familiar with these revisions. If you have any questions or recommendations for improvements to the worksheets please contact:

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