

MEMORANDUM

DEPARTMENT OF TRANSPORTATION
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Date: November 1, 2007

To: All Bridge Worksheet Users

Signature on File

From: Mark A. Leonard, Bridge Branch Manager

Subject: CDOT Bridge Worksheet Revisions

All worksheets have been converted from AutoCad to Microstation and 23 worksheets have the following changes. February 2006 changes have been included in this submittal.

B-INDEX-1 & 2: Updated indexes.

B-000-1 & B-000-2: Deleted

B-100-1: Added the Utility Notification Graphic and associated note to the Designer/Detailer. Changed the splice length tables for Class B and Class D concrete for both black and epoxy coated reinforcing bars to conform to LRFD Code. Corrected the Grade 70 Structural Steel yield strength. Added the note to allow for emergency deck construction joint.

B-210-1: New sheet. This sheet describes the process of adding extensions to anchor bolts and raising the top of a caisson for a signal pole when the project calls for a grade elevation increase.

B-503-1: Added the Utility Notification Graphic and associated note to the Designer/Detailer. Added note to extend the reinforcing steel cage to the bottom of the hole if it is excavated more than two feet deeper than the estimated tip elevation.

B-504-C2: Corrected the table to show the re-calculated Bearing Pressure for the Design Height used. Removed the columns showing the Backfill Material quantity for the shoring option as the shoring option is not used with this design. Corrected the General Notes to reflect the appropriate loading equation and K_a value.

B-518-P: Complete revision of the original B-518-P Bridge Expansion Device (0-2 Inch) worksheet. This sheet is now intended for the use of plug joint with new construction only and is titled Bridge Expansion Device Plug Joint. Does not contain a list of approved suppliers but has been revised to accommodate a switch to an Approved Product List (APL) process.

Worksheet Revisions

November 1, 2007

Page 2 of 3

B-518-PR: New sheet. This sheet incorporates a general revision of the original B-518-P Bridge Expansion Device (0-2 Inch) worksheet for rehabilitation of existing expansion joints. This sheet is titled Bridge Expansion Device Plug Joint and is intended for rehabilitation of existing bridge joints. The sheet is based on using an Approved Product List (APL) rather than approved suppliers. The notes to the designers are new and the site condition description is in a check box format.

B-601-5C: Re-phrased the note concerning construction debris and the deck pour. Revised Class S concrete to Class PS. Added alternate support detail.

B-601-5S: Revised Class S concrete to Class PS.

B-601-TFS1: New sheet. This sheet provides Partial Plans, General Notes and quantities for Secondary Containment Structures.

B-601-TFS2: New sheet. This sheet provides Tank Foundation and Waterstop Details for Secondary Containment Structures.

B-601-TFS3: New sheet. This sheet provides Wall Stem and Footing Details for Secondary Containment Structures.

B-614-1: General Revision of sheet to incorporate 4 sheet set of information for Anti-Icing Systems. First sheet now shows overall system layout and requirements , general notes and quantities.

B-614-2: New sheet. This sheet shows Anti-Icing system schematics, isometric view of vault layout and valve operation table.

B-614-3: New sheet. This sheet shows typical grading requirements for an Anti-Icing underground vault and typical details.

B-614-4: New sheet. This sheet shows the structural requirements for an Anti-Icing underground vault.

B-618-BT: Removed the reference to MNL-116 since it is covered by the Standard Specifications. Added column for release camber in girder schedule.

B-618-BX: Removed the reference to MNL-116 since it is covered in the Standard Specifications and retained the relaxed tolerance for depth (D). Removed 3" full length slot for skewed girders. Removed harped design for consideration by Designer and Detailer and revised last note accordingly. Added column for release camber in girder schedule.

B-618-DF: Changed the section detail of each girder to show the area in square feet rather than the weight per foot.

B-618-SL: Removed the reference to MNL-116 since it is covered in the Standard Specifications and retained the relaxed tolerance for Depth (D). Added column for release camber in girder schedule.

B-618-U: Removed the reference to Section 6.4 of MNL-116 and retained the rest of the reference as tub girders are not represented in the document. Added column for release camber in girder schedule.

B-SPECL-13: Deleted this worksheet.

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

<http://www.dot.state.co.us/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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