Oregon
John A. Kitzhaber, M.D., Governor

Department of Transportation
Technical Leadership Center
ODOT Bridge Section MS #4
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FILE CODE:

June 9, 2014

To: Users of Oregon DOT Bridge Design and Drafting Manual

Subject: Revisions to the ODOT Bridge Design and Drafting Manual

The ODOT Bridge Design and Drafting Manual (BDDM), 2013 has been updated with several revisions. The revised BDDM is being released in web-based Acrobat files, which can be accessed at the following web site:

http://www.oregon.gov/ODOT/HWY/BRIDGE/Pages/standards_manuals.aspx

The revised BDDM can be viewed from the site, or downloaded and printed. The revisions consist of 17 articles listed in the attachment.

These revisions apply to new design projects as of the effective date of June 9, 2014. New projects for ODOT designed projects are those that do not have an approved DAP by the effective date. New projects for outsourced projects are those that do not have an executed work order contract for PE. However, existing projects may make use of these revisions, if agreed to by the Agency Project Manager or Project Team Leader.

We are always interested in comments or suggestions on any of the provisions in the BDDM. Please send comments or suggestions to Emily Maurer at: Emily.Maurer@odot.state.or.us

BJohnson

Bruce V. Johnson
State Bridge Engineer

Attachment: BDDM Proposed Update Summary May 2014

BVJ/jdj

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May 2014 Update
ODOT Bridge Design & Drafting Manual

Final Update Summary

The following revisions are in reference to current BDDM section numbers:

Section 1 – Design and Detailing Practices

1.3.2(5) Live Loads – Clarification on policy regarding higher level techniques for calculating live load distribution factors.

1.5 & 1.9 Concrete & Decks – Minimum aggregate size increased from ¾" to 1".

1.5.5.1.17 Grade 80 Reinforcement – Correction to information on grade 80 rebar.

1.9.1 Deck Design & Detailing – ODOT preferred deck rebar orientation changed to transverse bars on top.

1.9.4 Deck Overlays – Overlay provisions updated based on industry input.

1.10.4.2(3) Pile Supported Footings – Revised terminology and procedure to align with current AASHTO LRFD Bridge Design Specifications.

1.10.5.5(12) Shaft Reinforcement – Clarification of column/shaft moments for design.

1.17.2.1 General Considerations – Seismic terminology changed to match AASHTO LRFD terminology.

1.24 Bridge Drainage – Designer guidance for bridge drainage is added. Standard details are updated.

Section 2 – Drafting Practices

2.4.1 Title Block Information – Reminder added to submit as-constructed plans to Bridge HQ.

A2.7.3 Plan and Elevation – Correction to seismic general notes.

Section 3 – Procedures and Layout

3.2.1 Design Software – Information on ODOT supported software is updated.

3.3 Bridge Design Process (DBB), Overview – Revisions to Bridge Design Process based on discussions with design staff.

3.4 Roles & Responsibilities – Revisions to Roles & Responsibilities based on discussions with design staff.

3.5 Quality – Minor revisions to Quality based on discussions with design staff.

3.14 Coordination with other Project Team Members – Revised Figures 3.14.4.2A, 3.14.4.2B and 3.14.4.2C. The word “restricted” is changed to “limited”.

3.14.7.1 Hydraulics, General – Clarified expectations for considering a washout analysis in the design.