



April 29, 2022

To: Users of Oregon DOT Bridge Design Manual

Subject: Revisions to the ODOT Bridge Design Manual

In the continued process to update the formatting of the ODOT Bridge Design Manual (BDM) to improve accessibility and usability, Section 1 and Section 2 have been reformatted to comply with the BDM Format Guide. In addition, the BDM has been updated with multiple technical revisions, including a couple of major rewrites to Section 3. See the attachment for an update summary. The revised BDM and format guide are being released in web-based Acrobat files, which can be accessed at the following web site:

<http://www.oregon.gov/ODOT/Bridge/Pages/Bridge-Design-Manual.aspx>

The revised BDM can be viewed from the site, or downloaded and printed. The documents are also available on Projectwise here: [BDM](#) and [Format Guide](#).

These revisions apply to new design projects as of the effective date of July 1, 2022. New projects for in-house designs 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 would like to thank the many people who provided comments and suggestions for this BDM update. Please send comments or suggestions for the October 2022 BDM to Emily Clyburn at: emily.clyburn@odot.oregon.gov

Raymond Bottenberg
Interim State Bridge Engineer

Attachment: BDM Update Summary April 2022

April 2022 Update
ODOT Bridge Design Manual
Update Summary

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

Section 1 – Design Standards and Practices

Reformatted Section 1 and revised to reflect BDM Format Guide

Note: Section 1.17 was not reformatted due to the forthcoming Seismic Design Manual.

- 1.2.1 Added AASHTO Guide Specifications for Seismic Isolation Design, 4th Edition (2014) to design standards
- 1.5.6.1 Updated guidance on use of WSDOT girder shapes
Updated AASHTO references
- 1.10.5.5(10) Revised CSL Tube steel to schedule 40
- 1.11.1 Provided guidance on retaining wall design
- 1.20 Moved to Section 1.5.11 Concrete Anchors
- 1.21 Moved to Section 1.17.8.6
- 1.24 Provides guidance on detailing bridge drainage
- 1.38.4 Prohibits holes in flanges of girders for temporary work

Section 2 – Design Guidance

Reformatted Section 2 and revised to reflect BDM Format Guide

Section 3 – Processes

- 3.5.2 Added definitions for ODOT positions
- 3.9.2 Revised to align with SOW in regards to DCSA
- 3.10.7.3 Revised requirements for checker calculation books

Format Guide

- 2.1.5 Clarified format BDM Tables should be in
- 2.1.6 Provided guidance on formatting figures
- 3.1.3 Clarified submittal process of BDM updates