



**OHIO DEPARTMENT OF TRANSPORTATION**  
CENTRAL OFFICE, 1980 W. BROAD ST., COLUMBUS, OHIO 43216-0899

July 19, 2019

To: Users of the Bridge Design Manual

From: Tim Keller, Administrator, Office of Structural Engineering

By: Sean Meddles, Assistant Administrator, Office of Structural Engineering

Re: Third Quarter Revisions to the January 2019 Edition of the ODOT Bridge Design Manual

The Third Quarter Revisions to the January 2019 Edition of the ODOT Bridge Design Manual are now available. These revisions shall be implemented on all Department projects that begin Stage 2 plan development date after July 19, 2019. Implementation for projects further along the development process should be considered on a project-by-project basis.

The January 2019 edition of the Bridge Design Manual may be downloaded at no cost using the following link:

<http://www.dot.state.oh.us/Divisions/Engineering/Structures/Pages/default.aspx>

Attached is a brief description of revisions in the new edition.

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## Summary of Revisions to the January 2019 ODOT BDM

BDM Section	Affected Pages	Revision Description
905	9-4	The definition for OMUTCD has been added.
906	9-5 through 9-7	Additional references related to bridge load rating and bridge posting have been added.
910	9-15 through 9-16	New BDM Section 910.1 has been added to clarify which structures need a BR100 form.
911	9-16	Revised the suggested operating rating factor to be used.
914	9-17	<ol style="list-style-type: none"> <li>1. Revised the criteria for when the load rating shall be revised to include: <ul style="list-style-type: none"> <li>• superstructure replacement</li> <li>• each time the GA of bridges below 5 drops one or more steps below</li> </ul> </li> <li>2. Specified that the additional strands adjacent to broken and exposed strands shall be considered ineffective in the rating analysis.</li> <li>3. Added a condition to revise the load rating when GA of a bridge previously rated by documented engineering judgement, drops below 5</li> </ol>
919.3	9-21 through 9-22	<ol style="list-style-type: none"> <li>1. Added an FHWA imposed 30-day bridge posting requirement starting October 1, 2019.</li> <li>2. Added requirement for bridge posting consideration to analyze a bridge by both LFR and LRFR methods to determine the maximum posting loads.</li> <li>3. Explained that the posting may require a permit from a local county/city to install a bridge posting sign for bridges carrying a non-ODOT route.</li> <li>4. Removed the reference to an Early Warning or an Ahead sign.</li> <li>5. Added a reference to the OMUTCD</li> </ol>
921	9-27	Added images of the new BR100 form for Non-NBI and NBI bridges.
925.3	9-31	Revised Load Factors for EV2 and EV3 Emergency vehicles in accordance with NCHRP Project 20-07/Task 410 report
925.7	9-33	Revised the Resistance Factor for Axial Compression in Steel

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