




Office of Engineering
Project Development Division
Bridge Design Section
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John Bel Edwards, Governor
Shawn D. Wilson., Ph.D., Secretary

MEMORANDUM

TO: ALL CONSULTANTS
ALL BRIDGE DESIGNERS

FROM: PAUL FOSSIER, P.E. 
BRIDGE DESIGN ENGINEER ADMINISTRATOR

SUBJECT: BRIDGE DESIGN TECHNICAL MEMORANDUM NO. 79 (BDTM.79)
PUBLICATION OF LOAD RATING AIDS FOR REINFORCED CONCRETE PIPE
(RCP) AND CORRUGATED METAL PIPE (CMP)

DATE: February 2, 2018

All structures (including pipes and culverts) meeting the definition of “Bridge” as defined in CFR § 650.305 and the AASHTO Manual of Bridge Evaluation (MBE) shall have a recall number and be load rated in accordance with MBE to meet FHWA National Bridge Inspection Program Metrics (FHWA 23 Metrics). The bridge definition is provided below.

Bridge - A structure including supports erected over a depression or an obstruction, such as water, highway, or railway, and having a track or passageway for carrying traffic or other moving loads, and having an opening measured along the center of the roadway of more than 20 feet between undercopings of abutments or spring lines of arches, or extreme ends of openings for multiple boxes; it may also include multiple pipes, where the clear distance between openings is less than half of the smaller contiguous opening.

DOTD Bridge Design Section has developed two load rating aids using Excel 2016, one for reinforced concrete pipe (RCP) (i.e., CONPIP) and one for corrugated metal pipe (CMP) (i.e., corrugated STLRCH, ALURCH, STLPIP, and ALUPIP), to assist bridge owners in their efforts to meet the FHWA 23 Metrics.

These rating aids have been published on the Bridge Design website under In-House Programs Downloads.

This technical memorandum is posted on the LA DOTD Website under [Inside La DOTD > Divisions - Engineering > Bridge Design > Technical Memoranda – BDTMs.](#)

Please contact Ms. Dana Feng (225-379-1060, dana.feng@la.gov) if you have questions or comments.

PF/zzf/df/qc

Cc: Chris Knotts (Chief Engineer)
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