



# OHIO DEPARTMENT OF TRANSPORTATION

CENTRAL OFFICE • 1980 WEST BROAD STREET • COLUMBUS, OH 43223

JOHN KASICH, GOVERNOR • JERRY WRAY, DIRECTOR

**Date:** January 18, 2019

**To:** All Current Holders of the Location and Design Manual, Volume 2

**Re:** Location and Design Manual, Volume Two Revisions

Transmitted herewith are revisions to the Location and Design Manual, Volume 2.

The following revisions have been made:

- **Revisions / Additions in Red**
- **1112.1 – Clarified** need to consider local agency for sediment controls in combined sewer areas.
- **1115.3 – Clarified** that discharges must drain directly from ODOT right-of-way to a large river to prevent the requirement for quantity treatment BMPs.
- **1115.4 – Updated** the water quality volume ( $WQ_V$ ) equation.
- **1115.5 – Updated** the water quality flow ( $WQ_F$ ) equation and application to certain BMPs.
- **1116.1 – Clarified** the consideration of sheet flow drainage off of ODOT right-of-way in determining post-construction BMP requirements.
- **1117.4 – Updated** retention basin BMP design criteria.
- **1118.2 – Updated** guidance for hydraulic analysis using 2D models.
- **Figure 1115-1 – Deleted** out of date water quality runoff coefficient figure.
- **Figure 1115-3 – Added** duration/intensity table for use in the water quality flow calculation.
- **Figure 1117-6 – Update** detention basin design example for updated water quality volume criteria.
- **Figure 1117-7 – Update** retention basin design example for updated water quality volume criteria.
- **Sample Plan Note W104 – Clarified** fixed typo.
- **Sample Plan Note W105 – Clarified** fixed typo.

The January 2019 update to this manual (ODOT's L&D Volume 2) includes updates to the calculation of the water quality volume, water quality flow, and retention basin volume for post-construction BMPs based on updates to Ohio EPA's construction general permit (OHC000005). These updates may increase the size of BMPs compared to design requirements in the July 2018 version of this manual. Projects that have either submitted Stage 2 design or finalized right-of-way acquisition for the project by January 31, 2019 may utilize the BMP design criteria from the July 2018 version of this manual. Projects that have not submitted Stage 2 design or finalized right-of-way acquisition for the project by January 31, 2019 must utilize the updated BMP design criteria included in this manual. Projects that have already completed preliminary or Stage 1 design for post-construction BMPs based on the July 2018 version of this manual, but not submitted Stage 2 design by January 31, 2019 must update the BMP design based on the current design criteria.

The online revisions of the Location and Design Manual, Volume 2 can be found in PDF format at:

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



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Technical questions or recommended changes should be directed to Jeff Syar (614) 275-1373 or Matt Cozzoli (614) 466-3152.

Respectfully,

A handwritten signature in black ink that reads "Jeff Syar".

Jeff Syar, P.E.

Office Administrator, Office of Hydraulic Engineering