



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD
SECRETARY

MEMORANDUM

DATE: December 30, 2013
TO: Holders of the FDOT Drainage Manual
FROM: Rick Renna, State Drainage Engineer
COPY:
SUBJECT: FDOT Drainage Manual – January 2014

The Drainage Manual has been revised for January 2014 a list of significant revisions and details of the revisions are listed below. These revisions should be implemented on all design projects when possible without impacting production schedules.

Table of Contents – Updated as necessary to reflect the revisions shown below.

Chapter 1 – Introduction

Section 1.5 – Added new text to the section titled Documentation of Drainage Design. Text provides more detail as to what should be included in the Drainage Design Report.

Chapter 3 – Storm Drain Hydrology and Hydraulics

Section 3.7.3 – Bullet 3 was revised to require shoulder gutter on interchange and grade separation embankments higher than 5 ft with slopes steeper than 1:6 unless specific experience indicates that the slopes are resistant to erosion.

Section 3.7.3 – Bullet 5 was revised to require shoulder gutter on the high side of superelevated sections unless site specific experience indicates that slopes are resistant to erosion.

Section 3.10 – Revised Paragraph 2 sentence 1 to read “Drainage structures with topside access shall be placed at all pipe junctions where the pipe flow is designed to bend.” This was done to clarify the application process for structures in junctions and bends.

Section 3.10.1 – Revised Paragraph 2 sentence 1 was revised to include other authoritative permitted discharge limitations.

Section 3.10.3 – A new section titled “Pipe Joint Designs Greater than 5 psi” was added. This section provides clarity on what an Engineer must do to require pipe joints with a pressure rating greater than 5 psi.

Chapter 5 – Stormwater Management

Section 5.3.4.2 Bullet 1 – Revised wording of the Maintenance Berm bullet for clarity and to match Figure 5-1.

Chapter 6 – “Optional Culvert Materials”

Section 6.6 – Changed Culvert Service Life Estimator version from “2010 or later” to “2013 or later”.

Appendix E – Pipe cover height tables from 2013 Standard Index 205 were deleted from Appendix E. The new LRFD information was added. New general notes were added, including assumptions used for calculations.