MEMORANDUM

DATE: February 29, 2012

TO: Holders of the FDOT Drainage Manual

FROM: Mark Scott, P.E.

COPY:

SUBJECT: FDOT Drainage Manual – 2012

The Drainage Manual has been revised for 2012 and has been posted on the FDOT web site. A list of revisions and details of the revisions follow. These revisions should be implemented on all design projects when possible without impacting production schedules.

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

Entire Document – Update Hyperlinks

Chapter 1 – Introduction
Section 1.7 – Revisions shown by revision date in header only (vertical bars in margin removed).

Chapter 3 – “Storm Drain Hydrology and Hydraulics”
Section 3.11 – New section added, “3.11 Additional Design Considerations”

Chapter 4 – “Cross Drain Hydraulics”
Section 4.3 – Divided Section 4.3 into two new subsections “4.3.1 Permanent Facilities” and “4.3.2 Temporary Facilities”
  - Section 4.3.1 – Changed ADT to AADT and deleted the Temporary Detour rows from the frequency table.
  - Section 4.3.2 – Based the Temporary Facility’s design on the detour’s length of time utilized.
Sections 4.6.1, 4.6.2, & 4.6.3 – Moved the clearance requirements to the PPM Volume 1, Section 2.10 but referenced the PPM in section 4.6.
Section 4.7.2 – Added "Alternatively, a steady discharge equal to the peak flow from a 10-year storm may be used in lieu of the above ACOE procedure."
Section 4.9.2.2 – Replaced the numbered scour estimate conditions with a table using modified HEC-18,

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Chapter 5 – Storm Water Management
Section 5.3.1.3 – Detention/retention system sizing based on critical duration specified in Rule 14-86 FAC.
Section 5.3.4.2 – Revised the pond “Freeboard” design feature.

Chapter 6 – “Optional Culvert Materials”
Section 6.2.1 – Added Polypropylene (50-year) to the materials list.
Section 6.5 – Removed aluminum pipes and added reinforced and F949 PVC pipes to vertical drains in the “Materials to be Considered” table.
Table 6-1 – “Culvert Material Applications and Design Service Life”
- Added a Vertical Drain column.
- Added rows polypropylene and fiberglass pipe
- Changed ADT to AADT in Note number 2.
- Added Note 10 – Resilient connections required for all vertical pipes.

Appendix C – “Drainage Law”
C.2 – Deleted the “cienega” reference under the “Swamps” definition.
C.5.5 – Deleted “and evaluatory” from the first sentence of the second paragraph regarding criteria overlap.