

TURNPIKE DESIGN HANDBOOK (TDH)

NEXGEN PLANS PRODUCTION – PART 9



FLORIDA'S TURNPIKE ENTERPRISE PRODUCTION DESIGN DEPARTMENT

OCOE, FL

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Introduction

As part of the Florida's Turnpike Enterprise (Turnpike) continuing quality enhancement efforts, the ***Turnpike Design Handbook (TDH)*** has been developed to provide consultants, reviewers and management with a single source of additional Turnpike-specific requirements that modify or add to the requirements included in the ***Florida Department of Transportation (FDOT) Design Manual (FDM)***.

The ***FDM*** and the ***TDH*** are both four-part documents:

- Development and Processes – Part 1
- Design Criteria – Part 2
- Plans Production – Part 3
- NexGen Plans Production – Part 9

The ***TDH*** also includes the [Turnpike Guide Drawings](#), which are available electronically on the Turnpike Design website. Review and become familiar with the [Turnpike Guide Drawings](#), including the Guide Drawings Introduction document which provides a general description and overview of the Guide Drawings development and their use.

For Turnpike requirements related to tolling, please see the [General Tolling Requirements \(GTR\)](#) which is a separate document.

The ***TDH*** is updated on an annual basis, following the official revision of the ***FDM***. Interim updates to the ***TDH*** will be issued as Addenda to the annual revision.

Should you have any comments or suggestions for this ***TDH*** document, please contact the Turnpike Design Engineer.

900 Production of NexGen Plans

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

901 Sequence of Plans Preparation

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

902 Estimated Quantities Report

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

905 Cross Sections

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

911 Model Management Sheet

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

915 Roadway Plan-Profile Sheet

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

No changes to this chapter

916 Drainage Structures Sheet

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

916.2 Drainage Plan View

916.2.1 Required Information

Add the following sentence to the fifth bullet in the first paragraph

If the existing abandoned structure conflicts with the proposed drainage structure, show the portion to be removed in the drainage structure section.

Add the following paragraph

Show all wall zones and label all wall zone pipes in cross sections. Refer to ***Appendix D*** of the [***FDOT Drainage Manual***](#).

918 Drainage Map

The following are changes, additions or deletions to the January 2021 FDOT Design Manual (FDM), Topic #625-000-002, for use on Turnpike projects only.

918.2 Required Information

Replace item (8) in the list in the first paragraph with the following

- (8) Show drainage divides and other information (e.g., pop-off elevations, spot elevations) to indicate the overland flow of the water. Show and label drainage areas in acres. Include pond/treatment swale basin names.

Add the following items to the list in the first paragraph

- (13) Identify and label the general location of landfills and contamination sites.
- (14) Identify and label Wellfield Protection areas and include the wellfield name and associated regulatory agency.
- (15) Identify and label FDEP impaired water body basin boundaries and include the impaired water body name.
- (16) Include the datum conversion from NAVD to NGVD. For example, NAVD 88 EL. 1.00 = NGVD 29 EL. 2.50.