



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION  
NASHVILLE, TENNESSEE 37243-0350**

**INSTRUCTIONAL BULLETIN NO. 06-21**

**Regarding Chapter 10 (Erosion Prevention and Sediment Control)  
Design Division Drainage Manual**

Effective immediately, Chapter 10 of the Design Division Drainage Manual shall be used as guidance for development of erosion prevention and sediment control plans on all projects under development

Chapter 10 along with the chapters 1-9 of the Design Division Drainage Manual can be accessed at the following internet site:

[http://www.tdot.state.tn.us/Chief\\_Engineer/assistant\\_engineer\\_design/design/DrainManChap%201-10.htm](http://www.tdot.state.tn.us/Chief_Engineer/assistant_engineer_design/design/DrainManChap%201-10.htm)

Attached are copies of pages 2-39 and 2-40 of English Design Guidelines with updates to the first section of Chapter 2.

Original signed by Jeff C. Jones  
Jeff C. Jones, Civil Engineering Director  
Design Division

JCJ:ARH  
Attachment  
August 2, 2006

**CHAPTER 2 - DRAINAGE**

In order to assist the designer performing drainage and hydrologic design, the Design Division has developed a Drainage Manual to provide a collection of applicable drainage criteria, policies and examples. The Manual discusses Tennessee Department of Transportation policies, practices and procedures for performing drainage design and hydraulic analyses on projects that are the responsibility of TDOT. These chapters include:

- Chapter 1 Introduction
- Chapter 2 General Drainage Polices and Practices
- Chapter 3 Drainage Plan Requirements
- Chapter 4 Hydrology
- Chapter 5 Roadside Ditches and Streams
- Chapter 6 Culverts
- Chapter 7 Storm Drainage Systems
- Chapter 8 Stormwater Storage Facilities
- Chapter 9 Energy Dissipators
- Chapter 10 Erosion Prevention and Sediment Control

Effective March 1, 2005, designers, shall begin using Chapters 1-9, of the Design Division Drainage Manual for all projects designed or constructed by TDOT. Projects begun prior to March 1, 2005 are exempt form this requirement.

Chapter 10 of the Design Division Drainage Manual shall be used as guidance for development of erosion prevention and sediment control plans on all new projects and all projects currently under development.

Limited copies of the manual will be distributed for internal use only. Consultants and other interested persons may download the Manual from the TDOT Internet site. The Manual can be found at:

[http://www.tdot.state.tn.us/Chief\\_Engineer/assistant\\_engineer\\_design/design/DrainManChap%201-10.htm](http://www.tdot.state.tn.us/Chief_Engineer/assistant_engineer_design/design/DrainManChap%201-10.htm)

**2-200.00 COMPUTATION OF DRAINAGE**

See Chapter 4 of the Drainage Manual.

**2-200.05 DRAINAGE TABLES AND CHARTS**

See Chapter 4 of the Drainage Manual.

**2-200.10 EXAMPLE DRAINAGE PROBLEMS**

See Chapter 4 of the Drainage Manual.

CHAPTER 3 - RIGHT -OF-WAY

**2-300.00 R.O.W. NOTES FOR ALL R.O.W. PROJECTS (See 3-305.00)**

All the notes below, which apply, will be put on the first property map sheet or first present layout sheet of the Right-of-Way Plans.

1. It is intended that all buildings and/or portions of buildings that are within the proposed right-of-way and/or easement lines for the project, be removed therefrom in the process of right-of-way acquisition. If any such buildings or improvements are not removed in the course of right-of-way acquisition, the Civil Engineering Manager 2, Design Division (and Civil Engineering Manager 1, Regional Design Office, if plans are being developed in the Regional Office) is/are to be notified in sufficient time to permit having such removals designated as a part of the construction contract.
2. All ramps must conform to the Department's "Policy on Financing Construction on Public Road Intersections and Driveways on Highway Resurfacing, Reconstruction and Construction Projects on New Locations", *The Manual on Rules and Regulations for Constructing Driveways on State Highway Right-of-Way*, *Standard Drawing RP-R-1*, and other accepted design and safety standards.

**2-300.05 R.O.W. NOTES ON PLANS REGARDING DRIVEWAYS (See 3-305.05 & 3-310.00)**

See Figures 2-17 through 2-19 for examples of how to show driveways on plans.

All ramp profiles (private drives, field entrances, business entrances, private and public side roads) shall be drawn on reproducible photographic mylar cross-section sheets.

All the notes below, which apply, will be put on the first property map sheet or the first present layout sheet of the Right-of-Way Plans.

1. New or Reconstruction Projects - with partial access control -
  - A. Existing paved driveway per tract remainder will be replaced in-kind to a touchdown point.
  - B. Where the existing driveway is unpaved and the proposed driveway exceeds 7 percent in grade, each driveway will be paved to a touchdown point or until the grade is less than 7 percent.
  - C. Where the existing driveway is unpaved and the proposed driveway is less than 7 percent in grade, each driveway will be paved a shoulder width from the edge of pavement and the remainder of that driveway replaced in-kind to a touchdown point.
  - D. Any necessary paving of driveways will be done during paving operations on the main roadway.