



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**  
**ROADWAY DESIGN DIVISION**  
SUITE 1300 JAMES K. POLK BUILDING  
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**JOHN C. SCHROER**  
COMMISSIONER

**BILL HASLAM**  
GOVERNOR

**DESIGN DIVISION DRAINAGE MANUAL**  
**REVISION 14-01**

**TO:** TDOT Roadway Design Division Drainage Manual Users

**FROM:** Ali R. Hangul, PE  
C.E. Manager 1  
Roadway Design Division  
Office of Standards and Policy

**DATE:** January 29, 2014

**SUBJECT:** Revision to the Drainage Manual

**Chapter 6**

Table 6A-1 was revised to add Polypropylene Pipe.

Tables 6A-3 through 6A-5 were updated to reflect the changes made to Table 6A-1

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**DESIGN DIVISION DRAINAGE MANUAL  
REVISION 13-02**

**TO:** TDOT Roadway Design Division Drainage Manual Users

**FROM:** Ali R. Hangul, PE  
C.E. Manager 1  
Roadway Design Division  
Office of Standards and Policy

**DATE:** September 13, 2013

**SUBJECT:** Revision to the Drainage Manual

**Chapter 6**

Tables 6A-2, 6A-3, 6A-4, 6A-5 were revised to remove concrete and steel quantities to match revisions done to the drawings D-PE-18A through D-PE-48A and the D-SEW drawings. These walls will now be paid on a per each basis.

**Chapter 7**

Section 7.03.5.4 was revised to include spring drain boxes.  
Sections 7.03.5.4.1 and 7.03.5.4.2 was added  
Table 7-7 in section 7.03.5.4.2 was added and subsequent tables were renumbered

**Chapter 10**

Section 10.05.3.4 was revised to add average slope of the drainage area at the outfall to the data required to show on the EPSC Plans.

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**DESIGN DIVISION DRAINAGE MANUAL**  
**REVISION 13-01**

**TO:** TDOT Design Division Drainage Manual Users

**FROM:** Ali R. Hangul, PE  
C.E. Manager 1  
Design Standards and Guidelines Office

**DATE:** May 28, 2013

**SUBJECT:** Revision to the Drainage Manual

**Chapter 6**

Section 6.05.3 – Revised Figure 6-11 to more clearly show location of overtopping.

Table 6A-1 – Add HDPE Pipe to Longitudinal storm drains up to 16 feet of fill for Arterial and Collectors, removed SRTRP from Arterials.

Figure 6A-3: Removed SRTRP from option list

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**DESIGN DIVISION DRAINAGE MANUAL  
REVISION 12-01**

**TO:** TDOT Design Division Drainage Manual Users

**FROM:** Ali R. Hangul, PE  
C.E. Manager 1  
Design Standards and Guidelines Office

**DATE:** August 21, 2012

**SUBJECT:** Revision to the Drainage Manual to Comply with the 2012 Construction General Permit

**Chapter 1**

Chapter 1 – Added reference to Chapter 11 in chapter Introduction  
Chapter 1 – Miscellaneous minor edits and formatting revisions  
Section 1.05 – Revised and updated Design Guidelines reference to 2012

**Chapter 2**

Chapter 2 – Miscellaneous minor edits and formatting revisions to Chapter 2 & Appendix  
Section 2.01.1 – Minor edit to last sentence  
Section 2.01.2 – Minor edit to first paragraph  
Section 2.02.2.2 – Minor edit to Item Number 2, first sentence  
Section 2.02.2.4.1 – Minor edit to last paragraph of section  
Section 2.02.2.7.1 – Corrected section title spelling  
Section 2.02.3.4 – Corrected misspelled word in first paragraph  
Section 2.03 – Added entire second paragraph to this section  
Section 2.04.1 – Revised and updated Design Guidelines reference to 2012

**Chapter 3**

Chapter 3 – Miscellaneous minor edits and formatting revisions to Chapter 3  
Section 3.06.1.3 – Miscellaneous minor edits to first paragraph  
Section 3.06.1.5 – Miscellaneous minor formatting edits  
Section 3.06.3.3 – Miscellaneous minor edits to first paragraph. Added Chapter 11 reference  
Section 3.06.3.4 – Minor updates and revisions to first paragraph  
Section 3.06.3.8 – Added items 8 and 9 to list  
Section 3.07.2 – Revised and updated Design Guidelines reference to 2012

**Chapter 6**

Chapter 6 – Miscellaneous minor edits and formatting revisions to Chapter 6  
Chapter 6 Table of Contents – Revised titles for Sections 6.04.3.1, 2, 3 & 5  
Chapter 6 Table of Contents – Updated page numbers for Section 6.03.3 & 6.05.2.2.1  
Section 6.04.3.1.1 – Revised Section title & updated section for new endwall Standards  
Section 6.04.3.1.2 – Revised Section title & updated section for new endwall Standards  
Section 6.04.3.1.3 – Revised Section title & updated section for new endwall Standards  
Section 6.04.3.1.5 – Revised Section title & updated section for new endwall Standards

Section 6.07.1 – Revised Table 6A-1: Revised fill heights, updated and modified various notes, added SRTRP to table

Section 6.07.1 – Revised Table 6A-2, Table 6A-3, Table 6A-4, Table 6A-5 for new endwall Standards

Section 6.07.4 – Revised and updated Design Guidelines reference to 2012

Section 6.07.5 – Added SRTRP, Steel Reinforced Thermoplastic Ribbed Pipe to Abbreviations

## **Chapter 7**

Chapter 7 – Miscellaneous minor edits and formatting revisions to Chapter 7

Chapter 7 Table of Contents – Revised titles for Sections 7.04.6, 7.04.6.2.2, & 7.04.6.2.3

Chapter 7 Table of Contents – Updated page numbers for Section 7.03.3 & 7.03.5.7 to 7.05.2

Section 7.04.1.1 – Minor revision to TDOT terminology in paragraph 5

Section 7.04.5.1 – Added n-value for SRTRP to Table 7-9

Section 7.04.6.2.1 – Changed figure reference in Step 2 from 7A-12 to 7A-10.

Section 7.06.4 – Revised and updated Design Guidelines reference to 2012

## **Chapter 10**

Chapter 10 – Miscellaneous minor edits and formatting revisions to chapter

Chapter 10 Table of Contents – Revised titles for Section 10.04.6

Chapter 10 Table of Contents – Revised Section 10.05.2.1 title, added new Section 10.05.2.2 and 10.06.2.2, other miscellaneous minor revisions, updated most page numbers,

Section 10.04.6.2 – Terminology revision. Changed ROW to disturbed acreage.

Section 10.05.3.4 – Replaced Figures 10-11 and 10-12 with updated versions. Removed reference to stream being an classed as an outfall

Section 10.06 – Updated terminology regarding phase and stage

Section 10.08.1 – Updated terminology regarding phase and stage

Section 10.08.2 – Updated terminology regarding phase and stage

Section 10.08.3 – Minor edit to 2<sup>nd</sup> paragraph

Section 10.08.3.1.3 – Added second paragraph to section

Section 10.08.3.2.4 – Minor terminology edit in first paragraph

Section 10.08.3.3.4 – Edits to design criteria in 3<sup>rd</sup> paragraph

Section 10.08.3.3.5 – Minor terminology edits in 2<sup>nd</sup> paragraph and Step 2

Section 10.08.3.4 – Miscellaneous minor edits to section

Section 10.09.3 – Updated terminology regarding phase and stage

Section 10.02 – Minor edits to paragraph 1 and 2

Section 10.03.1 – Minor edits to paragraph 3 and 4

Section 10.03.1.1 – Minor edits to paragraph 1

Section 10.03.3.1 – Minor edits to paragraph 2

Section 10.03.4.3 – Minor edits to paragraph 2

Section 10.03.6 – Minor edits to paragraph 1

Section 10.04.2.3 – Added 2<sup>nd</sup> paragraph

Section 10.04.4.2 – Added paragraph 4

Section 10.04.4.3 – Edits to paragraph 2

Section 10.04.5 – Edits to paragraph 3

Section 10.04.6.2 – Edits to paragraph 1 and 2

Section 10.05.1 – Edits to paragraph 2

Section 10.05.1.1 – Edits to paragraph 1 and 2

Section 10.05.1.3 – Edits to paragraph 1

Section 10.05.2 – Additional paragraph added to item 3 and edits to item 5

Section 10.05.2.1 – Added entire section

Section 10.05.2.2 – Added entire section

Section 10.05.03 – Edits to paragraph 1

Section 10.05.3.2 – Edits to paragraph 2 and 4

Section 10.05.3.4 – Edits to entire section

Section 10.06 – Edits to entire section

Section 10.06.1 – Edits to paragraph 1

Section 10.06.2 – Added paragraphs throughout section

Section 10.06.2.1 – Edits to paragraph 1 and 2

Section 10.06.2.2 – Added entire section

Section 10.06.2.3 – Edits to paragraph 1 and 3, added paragraph 2

Section 10.06.2.4 – Edits to paragraph 2  
Section 10.07 – Edits to paragraph 1  
Section 10.08 – Edits to paragraph 2  
Section 10.08.1.1.2 – Minor edits to paragraph 1  
Section 10.08.1.1.4 – Minor edits to paragraph 2, 8, and 9 and bullet in last paragraph  
Section 10.08.1.1.5 – Added sentence to last paragraph  
Section 10.08.1.2.3 – Edits to paragraph 1 and 2  
Section 10.08.1.2.4 – Minor edits to paragraph 4  
Section 10.08.1.2.5 – Added sentence to Step 3  
Section 10.08.1.3.1 – Edits to both paragraphs  
Section 10.08.1.3.2 – Edits and added paragraph  
Section 10.08.1.3.4 – Minor edits to paragraph 3 and 6  
Section 10.08.1.4.3 – Edits to paragraph 2  
Section 10.08.1.4.4 – Minor edits to paragraph 4  
Section 10.08.1.5.3 – Added sentence to make paragraph 2  
Section 10.08.1.5.4 – Minor edits to paragraph 2  
Section 10.08.1.6.2 – Edits to paragraph 1 and added paragraph 4  
Section 10.08.1.6.4 – Minor edits to paragraph 4 and 5  
Section 10.08.1.7.2 – Added paragraph 3  
Section 10.08.1.8.4 – Minor edits to paragraph 1  
Section 10.08.1.9.1 – Minor edits to paragraph 1  
Section 10.08.1.9.4 – Edits to paragraph 2,3,5,8, and 9  
Section 10.08.1.10.4 – Edits to paragraph 1,2,5,8,12, and 14  
Section 10.08.1.11.2 – Edits to paragraph 1  
Section 10.08.1.11.3 – Added paragraph 2  
Section 10.08.1.11.4 – Added information to paragraph 2, edits to paragraph 7  
Section 10.08.1.12.2 – Edits to paragraph 1 and 2  
Section 10.08.1.12.3 – Added sentence to make paragraph 2  
Section 10.08.1.12.4 – Minor edits to items E and F and paragraph 7  
Section 10.08.1.12.5 – Minor edits to paragraphs 1 and 8  
Section 10.08.1.14.1 – Minor edits to paragraphs 1 and 2  
Section 10.08.1.14.2 – Minor edits to paragraph 2  
Section 10.08.1.14.3 – Added first sentence and edits to paragraph 3  
Section 10.08.1.14.4 – Edits to paragraph 1, 3, and 12  
Section 10.08.1.14.5 – Edits to paragraph 1, and 4  
Section 10.08.1.16.2 – Added information to paragraph 1  
Section 10.08.1.18.4 – Minor edits to paragraph 1  
Section 10.08.1.18.5 – Minor edits to paragraph 1  
Section 10.08.2 – Minor edits to paragraph 2  
Section 10.08.2.1.3 – Added paragraph 2  
Section 10.08.2.1.4 – Additional info added to paragraph 11  
Section 10.08.2.2 – Added caption  
Section 10.08.2.2.3 – Added info to paragraph 1 and 3  
Section 10.08.2.2.4 – Added paragraph 9  
Section 10.08.2.3.4 – Edits to paragraphs 2, 3, and 4  
Section 10.08.2.4.1 – Minor edits to paragraph 1  
Section 10.08.2.4.4 – Minor edits to paragraphs 4, 5, and 6  
Section 10.08.2.4.5 – Minor edits to paragraph 2  
Section 10.08.2.6.2 – Minor edits to paragraph 2  
Section 10.08.2.6.3 – Edits to paragraph 1  
Section 10.08.2.6.4 – Edits to paragraphs 2, 3, 10, and 12  
Section 10.08.2.6.5 – Added sentence to Step 3  
Section 10.08.2.7.3 – Minor edits to paragraph 1  
Section 10.08.2.8.2 – Minor edits to paragraph 2  
Section 10.08.2.8.4 – Minor edits to paragraph 15  
Section 10.08.2.8.5 – Added sentence to end of section  
Section 10.08.2.9.4 – Minor edits to paragraph 3 and 8  
Section 10.08.2.9.5 – Added sentence to end of section  
Section 10.08.2.10.3 – Edits to paragraphs 1 and 2  
Section 10.08.2.10.5 – Added sentence to end of section  
Section 10.08.2.11.1 – Minor edits to paragraph

Section 10.08.2.11.4 – Added information to paragraph 2  
Section 10.08.2.11.5 – Minor edits to paragraph 1 and added sentence to end of section  
Section 10.08.2.12 – Re-worked and reorganized significant portion of entire section for new NPDES requirements including new requirement for floating outlet structure.  
Section 10.08.2.13.5 – Added sentence to Step 2  
Section 10.08.2.14.1 – Minor edits to paragraph 1  
Section 10.08.2.14.4 – Minor edits to paragraph 6  
Section 10.08.2.14.5 – Added sentence to Step 3  
Section 10.08.2.15.4 – Miscellaneous edits throughout section  
Section 10.08.2.17.4 – Miscellaneous edits throughout section  
Section 10.08.2.17.5 – Miscellaneous edits throughout section  
Section 10.08.2.18.5 0 Minor edits in paragraph 1  
Section 10.09.1.1 Appendix – Minor edits in Figure 10A-3 Sediment Control Measures table  
Section 10.09.3 Appendix – Added items and miscellaneous edits throughout Glossary  
Section 10.09.4 Appendix – Added items to References  
Section 10.09.5 Appendix – Added items to Abbreviations

## **Chapter 11**

Chapter 11 Table of Contents – Updated page numbers for Section 11.08.1.4 thru 11.08.1.8  
Section 11.04.1.2 – Minor terminology change in last section  
Section 11.06.2.3 – Minor terminology changes to paragraph 2, on page 11-81  
Section 11.08.1.7.4 – Revised dimension locations in Figure 11HC-12  
Section 11.08.2.7.4 – Minor edits to first paragraph  
Section 11.09.3 Appendix – Added Exceptional Tennessee Waters to Glossary

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