



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
NASHVILLE, TENNESSEE 37243-0348**

**DESIGN DIVISION DRAINAGE MANUAL
REVISION 10-01**

TO: TDOT Design Division Drainage Manual Users

FROM: Ali R. Hangul, C.E. Manager 1
Standards and Quality Assurance Section

DATE: June 21, 2010

SUBJECT: Revision to Chapters 2, 4, 5, 6, 7, 9, 10 of the Design Division Drainage Manual

Chapters 2, 4, 5, 6, 7, 9, and 10 of the Design Division Drainage Manual were revised on January 1, 2010 and are effective as of the date of this memo. The chapters have been revised as follows:

- Chapter 2
 - Section 2.02.3.1 – Added evaluation “for the potential to impact downstream systems” to the drainage design process
- Chapter 4
 - Section 4.04.2.1 – Removed TDOT Regression Equations, Updated the USGS Regression Equations
 - Section 4.04.2.2 – Minor Revisions
 - Section 4.04.2.2.1 – Added Section
 - Section 4.04.2.2.2 – Added Section
 - Section 4.04.5.3 – Revised TR-20 to TR-55
 - Section 4.05 – Removed reference to HYDRAIN, Added TDOTV203 and Stream stat USGS WRIR03-4176, and Revised TR-20 to TR-55
 - Section 4.06.2.1.1 – Revised table numbers
 - Section 4.06.2.1.2 – Revised table numbers
 - Section 4.06.2.1.3 – Removed reference to HYDRAIN
 - Section 4.06.2.2.1 – Revised table numbers
 - Section 4.06.4 – Removed reference to HYDRAIN
- Chapter 5
 - Section 5.07 – Removed reference to HYDRAIN
 - Section 5.07.2 – Deleted section
 - Section 5.07.3 – Renamed to 5.07.2
- Chapter 6
 - Section 6.03.2.1 – Added evaluation “for the potential to impact downstream systems” to the drainage design process
 - Section 6.04.2 – Added PVC Pipe
 - Section 6.04.2.4.3 – Added PVC Pipe
 - Section 6.04.3.1.3 – Added PVC Pipe

- Section 6.04.3.3 – Revised HEC-14 reference
- Section 6.06 – Removed reference to HYDRAIN and HYCULV
- Section 6.06.3 – Removed reference to HYDRAIN
- Section 6.06.4 – Deleted section
- Section 6.06.5 – Renamed to 6.06.4. Update for HY-8 version 7.1
- Section 6.07.1 – Added PVC to Tables 6A-3, 6A-4, 6A-5, and 6A-6
- Section 6.07.2.2 – Revised Example Problem #2 for HY-8 version 7.1
- Section 6.07.2.4 – Revised Example Problem #4 for HY-8 version 7.1
- Section 6.07.2.5: Deleted section
- Chapter 7
 - Section 7.03 – Minor Revisions and Added Footnote 4 to Table 7-1
 - Section 7.03.4.1 – Minor Revisions
 - Section 7.03.4.2 – Minor Revisions
 - Section 7.03.6 – Minor Revisions, Added PVC
 - Section 7.04.5.1 – Minor Revisions, Added PVC to Table 7-9
 - New Section – Added Section 7.04.6
 - New Section – Added Section 7.04.6.1
 - New Section – Added Section 7.04.6.1.1
 - New Section – Added Section 7.04.6.2
 - New Section – Added Section 7.04.6.2.1
 - New Section – Added Section 7.04.6.2.2
 - New Section – Added Section 7.04.6.2.3
 - New Section – Added Section 7.04.6.3
 - New Section – Added Section 7.04.6.3.1
 - New Section – Added Section 7.04.6.3.2
 - New Section – Added Section 7.04.6.3.2.1
 - New Section – Added Section 7.04.6.3.2.2
 - New Section – Added Section 7.04.6.3.2.3
 - New Section – Added Section 7.04.6.3.3
 - Section 7.04.6 – Renamed to 7.04.7
 - Section 7.04.6.1 – Renamed to 7.04.7.1
 - Section 7.04.6.2 – Renamed to 7.04.7.2
 - Section 7.04.6.3 – Renamed to 7.04.7.3
 - Section 7.04.6.4 – Renamed to 7.04.7.4
 - Section 7.04.6.5 – Renamed to 7.04.7.5
 - Section 7.04.7 – Renamed to 7.04.8
 - Section 7.05 - Removed reference to HYDRA
 - Section 7.05.1 – Deleted Section
 - Section 7.05.2 – Renamed to 7.05.1
 - Section 7.05.3 – Renamed to 7.05.2. Removed reference to operating systems
- Chapter 9
 - Section 9.03.3.2 – Minor Revisions
 - Section 9.04.2.2.1 – Minor Revisions
 - Section 9.04.2.2.5 – Minor Revisions
 - Section 9.05.1 – Removed reference to HYDRAIN, Removed version number for Windows based HY-8
 - Section 9.05.2 – Deleted Section
 - Section 9.06.1 – Deleted Figure 9A-8
 - Section 9.06.1 – Renamed Figure 9A-9 to 9A-8
 - Section 9.06.2.2 – Revised based on updated procedures in HEC-14
- Chapter 10
 - Section 10.04.3.1 – Minor Revisions
 - Section 10.04.3.2 – Minor Revisions

- Section 10.04.4.1 – Minor Revisions
- New Section - Added Section 10.04.6.2
- Section 10.05.1 – Minor Revisions
- Section 10.05.1.2 – Minor Revisions
- Section 10.05.1.3 – Minor Revisions
- Section 10.05.2 – Minor Revisions
- Section 10.05.3 – Minor Revisions, Replace Figure 10-9
- Section 10.05.3.1 – Rearranged Section, Added paragraph for “EPSC Utility Relocation Notes”, Replaced Figure 10-10
- Section 10.05.3.2 – Minor Revisions
- Section 10.05.3.3 – Minor Revisions
- New Section – Added Section 10.05.3.4
- Section 10.06.2.1 – Minor Revisions
- Section 10.08.1.1 – Minor Revision, Added reference to EC-STR-4B
- Section 10.08.1.1.4 – Replaced Figure 10EP-1
- Section 10.08.1.4.5 – Minor Revisions
- Section 10.08.1.12.4 – Minor Revisions
- New Section – Added Section 10.08.1.17
- New Section – Added Section 10.08.1.18
- Section 10.08.2.2.4 – Replaced Figure 10SC-1a and Figure 10SC-1b