

SD Drainage Manual Revisions - August 2013

Chapter 6 Appendix 6.A: The “D” in “100-Year DHW Elev. (existing)” was taken out of the Hydraulic Data Sheets and removed from the guide for completion of the hydraulic data sheet.

10.4.7: Clarified what culvert installations require overtopping information.

10.3.1.4: Revision to practice of determining height of debris walls based on recommendations from HEC-9.

Chapter 12: Included (Version 1.0) after FWHA Hydraulic Toolbox in the applicable examples (Examples 12.8-2, 12.10-1, 12.10-3, 12.10-4, and 12.10-5).

12.10.1.1: The first two bullets were removed and replaced with a new last bullet concerning maximum inlet spacing based on connecting pipe.

12.13.2: The first few paragraphs were revised to require a hydraulic gradeline analysis be performed for all storm drainage system design including a determination of the outfall tailwater condition.

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12.7.3 & Figure 12.7-A: Allowable water spread criteria was updated.

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7.6.2.3: Reference for storm drainage systems was added.

Figure 7.13-A: Runoff coefficients for rural areas were added at the bottom of the table.

Figure 10.10-C: “Arch” was added after “RCP” in note 2. Superscript “2” was removed from lines with plates 450.14 and 450.15.

12.5.3: New wording for Review Frequency was provided for this section.

Figure 12.8-B: The typical SDDOT n value was provided as a note below the table.

12.9.2.3: Example 12.10-1 and Example 12.10-2: Replaced “curved vanes” with “45° tilted bars”.

12.9.3: Information about precast drop inlet collars, drop inlet covers and manholes was added.

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14.2.2.2: Included statement about design frequency bridges without an overflow section in the approach.

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10.3.3.3: Information was added for pipes draining median ditches and pipes from drop inlets.

SD Drainage Manual Revisions - May 2022

12.9.2.1: Replaced Type D Frame and Grate with a more bicycle friendly new Type A Frame and Grate.

12.12.4.2: Replaced reference to Type D drop inlet with the current practice for use of CMP.

14.7.3.9: Rewrote section to follow current practice.