

VDOT DRAINAGE MANUAL SEPTEMBER 2009 REVISIONS

All chapters have been revised except for 3, 4 and 5.

All revisions have been shaded on the pages of text for more clarity and there will be a revision date (9/09) shown in the lower left corner of the page.

All Errata have been incorporated into the Manual.

The following HDA's have been incorporated into the Manual:

- [HDA 05-01](#) Consideration of Flood Plain Storage in the Design of Drainage Facilities
- [HDA 05-02.2](#) Change in Procedure for Determining Mean & Low Tide Elevations (Revised 3/24/08)
- [HDA 05-03](#) DOT's Adoption & Implementation of NOAA ATLAS 14 Rainfall Precipitation Frequency Data

* [DOWNLOAD FILE](#) -Microsoft EXCEL spreadsheet file containing "B, D, & E" factors referenced in Hydraulic Design Advisory (HDA) 05-03
- [HDA 05-04.3](#) Application of NRCS' "TR-55", "TR-20", EFH -2 Hydrologic Computations Using NOAA ATLAS 14 Rainfall Data (Revised 9/08)

* [DOWNLOAD FILE](#) - Microsoft EXCEL spreadsheet file containing NRCS' implementation of NOAA ATLAS 14 24-hr total point rainfall data for Virginia (and appropriate county zone maps) as presented in Hydraulic Design Advisory (HDA)05-04.2

- [HDA 05-05](#) Dan Anderson Peak Discharge Determinations - Procedural Revision
- [HDA 06-02](#) Scour Considerations for Three-sided Drainage Structures
- [HDA 06-03.1](#) Culvert Outlet Protect Road and Bridge Standard EC-1 (Revised 9/07)
- [HDA 06-04](#) Recommendations for Mannings "n" Values for VDOT Standard Riprap Sizes (Revised 11/06)
- [HDA 06-05](#) Erosion and Sediment Control Plan Details (Revised 11/06)
- [HDA 07-02](#) Countersinking Considerations for Single and Multiple Barrel Culverts.
- [HDA 08-02](#) Guidelines for the Design and Acceptance of Roadway Causeways
- [HDA 08-03](#) Inlet Design - Allowable Spread Criteria
- [HDA 09-02](#) Storm Sewer Pipe 06/08/09