

## Summary of 2015 Update to Surface Water Engineering Standards

<b>2014 Surface Water Engineering Standards</b>	<b>2015 Surface Water Engineering Standards</b>	<b>Revision</b>
D1-02	D1-02	Added a definition for “slope”.
Table 4.5	Table 4.5	Changed the conversion from NGD1988 to US Engineers from 3.44 to 3.22
Table 4.12	Table 4.12	For Dispersion Trench setback changed “Top of 15% Slope” to “Top of 20% Slope”. For the Dispersion BMPs added “pop-up emitter”.
D6-03.2Aiii	D6-3.2iii	For bioretention swales a designer can use the design procedures from the WSDOT Highway Runoff or the DOE manual.
D8-8.1	D8-8.1	Clarified the requirements for installing a cured-in-place liner inside a pipe and the use of controlled density fill.
Appendix D-1 Standard Detail D-5	Appendix D-1 Standard Detail D-5	Added note 9 regarding where square openings are allowed.
Appendix D-1 Standard Detail D-46	Appendix D-1 Standard Detail D-46	Added note 5 and added a pipe bedding configuration for a detention pipe with underdrains.
Appendix D-1 Standard Detail NDP-10	Appendix D-1 Standard Detail NDP-10	Modified some dimensions showing minimum and maximum limits.
Appendix D-1 Standard Detail NDP-22	Appendix D-1 Standard Detail NDP-22	Added contour elevation 102 to the plan view
Appendix D-1 Standard Detail NDP-23	Appendix D-1 Standard Detail NDP-23	Added note 3 and changed “filter fabric” to “geotextile”
Appendix D-4	Appendix D-4	Added approved manufacturers for precast manhole and catch basin sections, polypropylene manhole steps, manhole frames and grates, catch basin frames and grates.