Design Infiltration Volume

The design infiltration volume is the volume of post-development stormwater runoff required to be retained on-site through the use of stormwater infiltration systems to meet the stormwater management standards and performance criteria described in Chapter 4 - Stormwater Management Standards and Performance Criteria of this Manual.

- For off-line infiltration systems designed to meet Standard 1 (Runoff Volume and Pollutant Reduction) only, the design infiltration volume is equal to the Required Retention Volume

(50% or 100% of the Water Quality Volume), as described in Chapter 4 - Stormwater Management Standards and Performance Criteria.

- For on-line infiltration systems designed to meet Standard 1 and provide peak runoff attenuation for larger storm events (Standard 2), the design infiltration volume is equal to the Required Retention Volume plus additional runoff volume to attenuate peak runoff rates associated with the 2-year, 10-year, and potentially 100-year storms.

As required by Standard 1, the use of non-structural LID site planning and design strategies should be considered, to the Maximum Extent Practicable, prior to the consideration of other practices, including stormwater infiltration systems. Refer to Chapter 5 - Low Impact Development Site Planning and Design Strategies for impervious surface disconnection and other non-structural LID Site Planning and Design techniques that can reduce the required design infiltration volume for stormwater infiltration systems.