



BMP T5.12

Sheet Flow Dispersion Systems

What is the purpose? Sheet Flow Dispersion Systems are the simplest method of runoff control. They disperse concentrated flows from driveways or other pavements through a vegetated area that is graded to avoid concentrating flows.

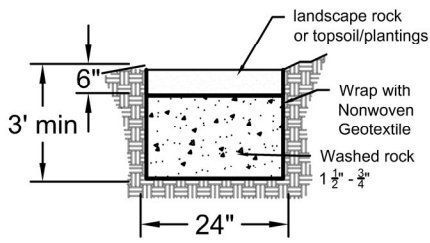
Where should it be used? Sheet Flow Dispersion Systems can only be used if there is room on-site to provide the required vegetated flow path and meet required setbacks. Since flows are already dispersed by grading the site adjacent to the impervious surface, these systems can be used to directly treat and infiltrate runoff from pollutant-generating surfaces (e.g. driveways) through vegetation. Draining water onto adjacent properties or into the right-of-way is prohibited. Use of this type of system is only allowed on flat or moderately sloped areas (less than 20%).

How do I build it? See the minimum requirements in the table below and the drawing on the reverse side of this handout for details on how to build a Sheet Flow Dispersion System. If you have any questions, contact the Engineering Department at 360-330-7512 for guidance.

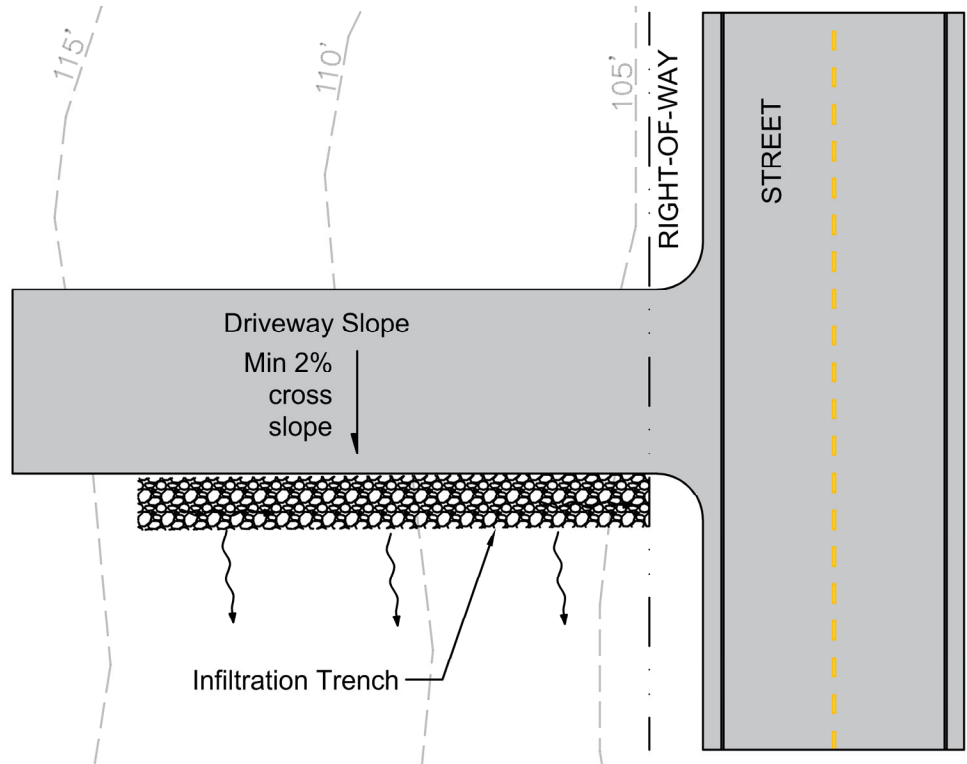
How do I maintain it? Keep the vegetative area mowed and maintain the gravel transition zone to ensure water continues to sheet flow to and through the vegetative area.

Minimum Sizes For Residential Construction		
Maximum Drainage Area	Rock Transition Area	Required on-site vegetative flow path beyond rock transition area
20 foot width of impervious surface	2 foot wide minimum adjacent to impervious area	25 linear feet
Over 20 but less than or equal to 30 foot width of impervious surface	2 foot wide minimum adjacent to impervious area	50 linear feet

Locate infiltration trench adjacent to driveway



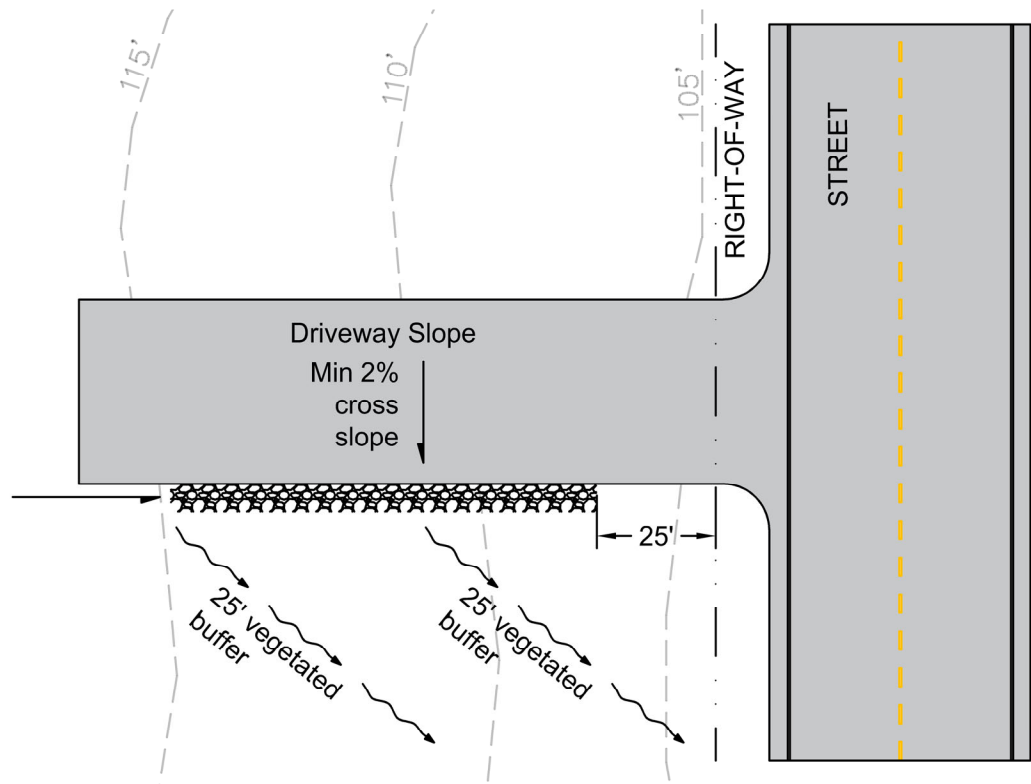
Infiltration Trench Cross Section
NTS



Driveway Runoff Detail 1 - Infiltration Trench

Use when 25ft vegetative buffer unavailable
Plan View

Minimum 2 foot wide by 6 inch deep gravel transition between driveway and vegetated buffer.



Driveway Runoff Detail 2 - Sheet Flow Dispersion

Flat to Moderately Sloping Driveways with buffer
Plan View

Typical Sheet Flow Dispersion for Driveways BMP T5.12

