FocalPoint Biofiltration Provides BioFiltration at High End Retail Outlet

FocalPoint System Provides Stormwater Biofiltration at the Kittery Trading Post High Profile Retail Outlet in Kittery, ME

75 Sq Ft FocalPoint retrofit will provide water quality treatment for the first 0.5 inch of runoff from an approximately 0.7 acre tributary area

The conceptual design for the retrofit was prepared in the form of a "Sketchbook" provided ACF’s Engineering Support Design Services.

FOCALPOINT BIOFILTRATION SYSTEM PROFILE

3" Layer of Shredded Hardwood Mulch:
Pre-treatment mechanism. Removal and Replacement of Mulch Represents the Bulk of System Maintenance!

6" Bridging Stone & Separation Layer:
Clog-Proof Clean Stone & Micro-Mesh Replace Traditional Geotextile Layer. No geotextile = no clogging

18" High Performance Media:
Flows at 100" Per Hour, Resistant to Clogging

High Performance Underdrain:
9.45" Modular Tank, or "Flat Pipe" w/95% Open Surface Collects Water Efficiently. Optional 2" Low-Profile Panel Addresses Shallow Applications. Expand into Modular Tanks for Larger Storage Needs.

The FocalPoint System are sold as a bundle to provide quality control for all components.

Quality Assurance / Quality Control (QA/QC):
Media, Stone and Mulch are all Bagged to Prevent Field Contamination – material is generally placed from suspended bag

FOCALPOINT BIOFILTRATION SYSTEM PROFILE

Excavation for FocalPoint Sequence Begins

Existing drainage inlet is cored for FocalPoint discharge connection

Rain Guardian

Bridging Stone:
(Shredded & Screened)

Mulan:
(Washed)

MEDIA:
(Pre-mixed & Certified)

Standard System Depth = 36". Can be modified Down to 29"

High Performance Underdrain
9.45" Modular Tank, or "Flat Pipe" w/95% Open Surface Collects Water Efficiently.

1. Excavated FocalPoint area is lined w/geotextile
2. R-Tank 9.45" "Mini" Underdrain is placed
3. Underdrain is enveloped in Separation Mesh

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Six inches of clean, washed Pea Gravel is placed on top of Mesh covered under-drain to provide stop-proof separation. Eighteen inches of high-flow media is then placed to provide water quality treatment. Three inches of aged and sifted mulch are then placed for pre-treatment and mulch purposes. The FocalPoint System profile is complete and ready for planting and activation.

Beehive Overflow Filter Structure with pipe connection to catch basin in street
Rim Elev 99.80
Invert out 96.50

Flush Curb / Curb Opening

Rain Guardian
Inlet Device

Existing Catch Basin Rim
100.00
Inv Out 96.50

River Rock / Stone Slope Stabilization / flow channel

FocalPoint Biofilter 75 SF.
Surface of Mulch elev 99.30
Invert out 96.50 (to beehive)

FocalPoint Maintenance Manual:
Provides Comprehensive Guidance & Record Keeping Tools.
1st Year of Maintenance Included!

Pick Up Trash
Clean Sediment Entry Points

Remove & Replace Mulch

ACF’s Engineering team can provide project specific support or you can access the tools below:
- Specifications
- Calculator
- CAD Details
- Flow Rate & Pollutant Removal Documentation
- Media Certification
- Installation & Maintenance Manuals
- Performance Guarantee
- And More!

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