FocalPoint Biofiltration Provides Efficient Pre-Treatment for R-Tank\textsuperscript{HD} Infiltration Bed in Green Infrastructure Application

*Reduced Infrastructure Cost * Reduced Overall Maintenance Cost *
• Filters Stormwater Using the Physical, Chemical and Biological Mechanisms of a Soil, Plant and Microbe Complex to Remove Pollutants Typically Found in Urban Runoff.

• FocalPoint gives designers maximum flexibility in meeting both water quality and water volume requirements.

• The R-Tank\textsuperscript{HD} Stormwater Storage System provides a high efficiency under-drain for FocalPoint and can be expanded to handle larger volumes for projects like the project shown in this pictorial.

CLICK HERE FOR R-TANK PRODUCT OVERVIEW
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

Pollutant Removal:
- TSS = 91%
- Nitrogen = 48%
- Phosphorus = 66%

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.
R-Tank HD area is prepared – excavated with a flat bottom

R-Tank HD “Double” modules are placed.

R-Tank HD maintenance port is installed and system is encapsulated in geotextile

Backfill is placed and compacted on lift at a time.
FocalPoint area is created with welded-wire forms and geotextile and then some stone backfill is placed above R-Tanks and around FocalPoint form.
Geotextile and Geogrid are placed above stone backfill and then soil backfilling process begins.

Separation stone is placed above separation mesh inside FocalPoint form.
High Flow BioFiltration Media is placed and then capped off until surrounding area is complete and stabilized.
FocalPoint construction and planting continues.
Completed FocalPoint will take sheet flow off parking lot as well as discharge from trench drain.
Quality Assurance/Quality Control (QA/QC):

- All Components of the FocalPoint were bundled to provide quality control.
- Included Media Certification
- Performance Guarantee
- Includes In-Situ Testing at Time of Install and One Year Later!

In-situ hydraulic testing after the FocalPoint install and one year later both exceeded the guaranteed 100 inch per hour flow rate through the media.
FocalPoint provided efficient pre-treatment for infiltration

R-Tank$^{HD}$ provided efficient infiltration bed storage

The design was driven by the access to a good soil infiltration footprint to build the system on top of. The FocalPoint/R-Tank$^{HD}$ system will remove over 250,000 gallons of runoff a year from the CSO System.
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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