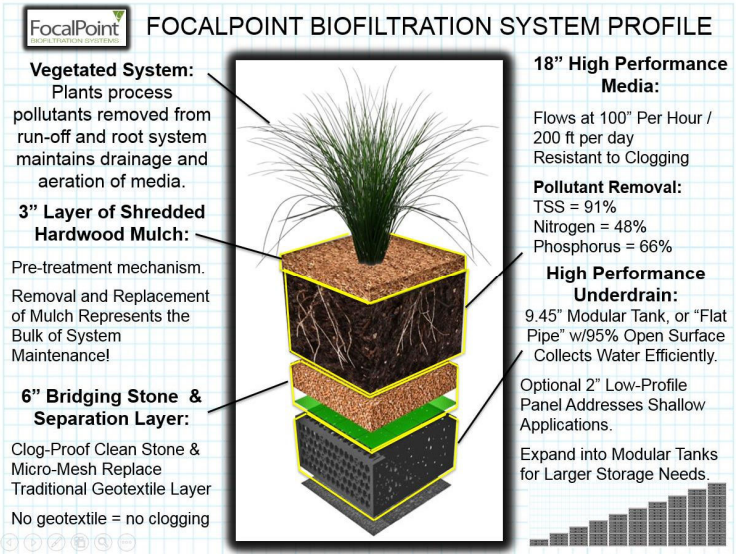
STORMWATER MANAGEMENT SOLUTION UPDATE:
DESIGNING WITH FOCALPOINT IN TENNESSEE

The FocalPoint (High Performance Modular Biofiltration System) is now recognized by several municipal agencies in TN for use as a "primary treatment" device on site development projects.

System Overview:

The FocalPoint is an ultra-efficient, modular biofiltration system that treats and drains large volumes of stormwater runoff in a small footprint to meet post construction stormwater treatment requirements. The system can be installed along the edge of a roadway behind curb line, in landscaped stormwater basins and be incorporated into an urban green infrastructure streetscape.

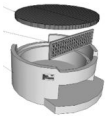
System Components:



Additional Benefits:

- The R-Tank modular underdrain can be expanded beyond the footprint of the FocalPoint to meet Channel Protection, Infiltration and Flood Control Requirements.

- Accessory Items that pair well with the FocalPoint:
  - **Rain Guardian Turret** for curbline pretreatment and energy dissipation.



  - **Beehive Overflow Filter** Riser for collection of gross solids during major storm events

Sizing Criteria Summary:

- To treat the water quality or first flush volume, the surface area of media within the FocalPoint must be a minimum of **174 square feet per 1 acre of impervious area** (26 sq. ft. per 0.15 acres). When treating directly connected pervious areas, the minimum filter bed ratio above can be weighted using a runoff coefficient (C-factor). Because the system utilizes a higher k-factor (100 "/hr), it requires less surface ponding volume than traditional bioretention practices. As a general guideline, the storage volume above the practice is typically designed to 20-25% of the treatment volume.

- The system should be modeled in HydroCAD (or similar TR-55 modeling software) to demonstrate the water quality or first flush volume is treated prior to activation of the bypass/overflow (typically set at 6-12" above the mulch surface)." If need be, the surface area of the media, surface ponding volume or both should be increased to ensure no activation of the bypass/overflow occurs.

- The R-Tank modular underdrain can be expanded beyond the footprint of the FocalPoint media bed for expanded infiltration and peak flow attenuation/detention.

For More Information Contact Jen-Hill – your local Green Infrastructure and Low Impact Development Resource

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