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SITE SUPPLY, INC.

STABILIZATION, DRAINAGE & EROSION CONTROL MATERIALS

(p) 800.465.0900

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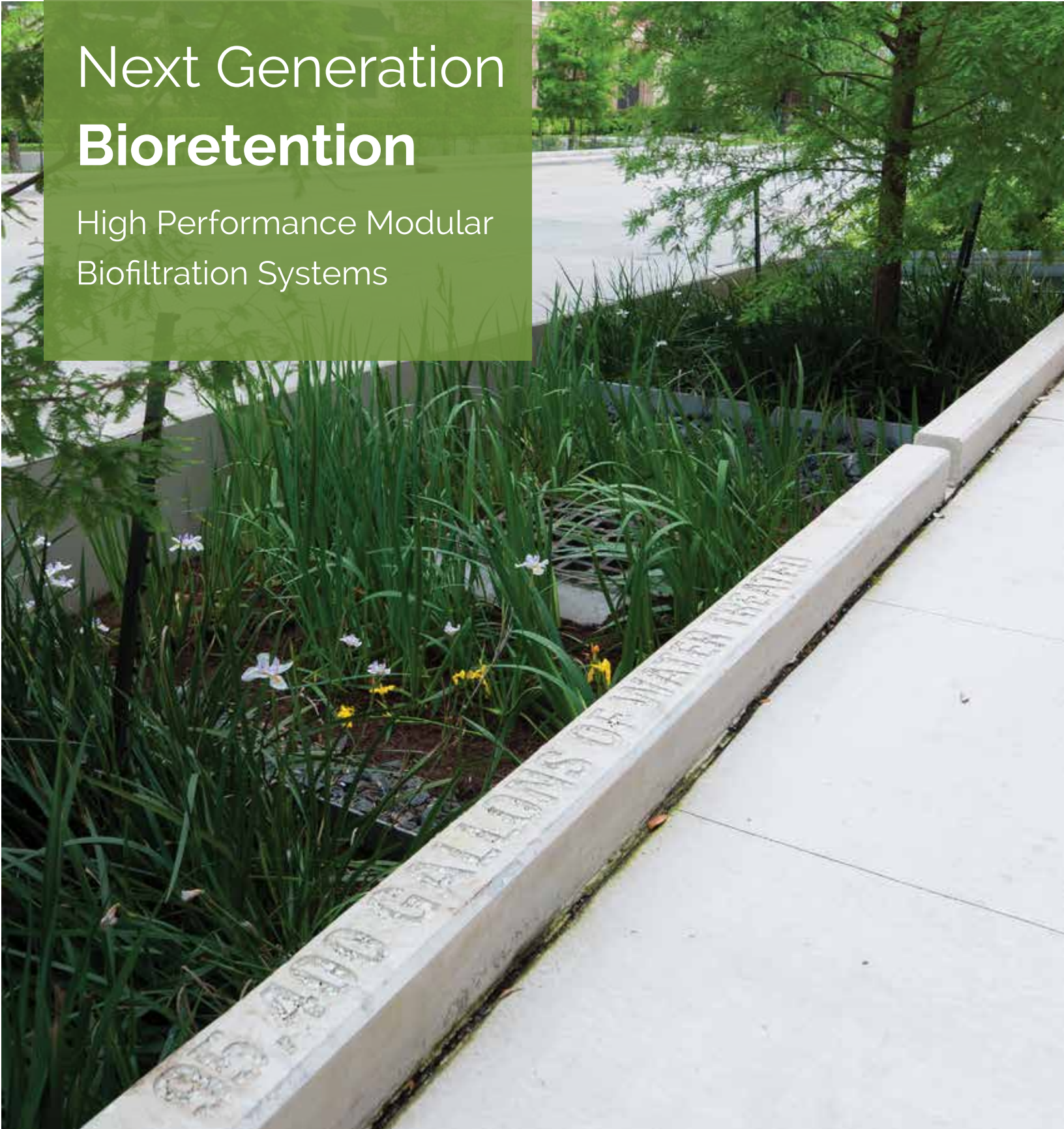


FocalPoint

BIOFILTRATION SYSTEMS

Next Generation Bioretention

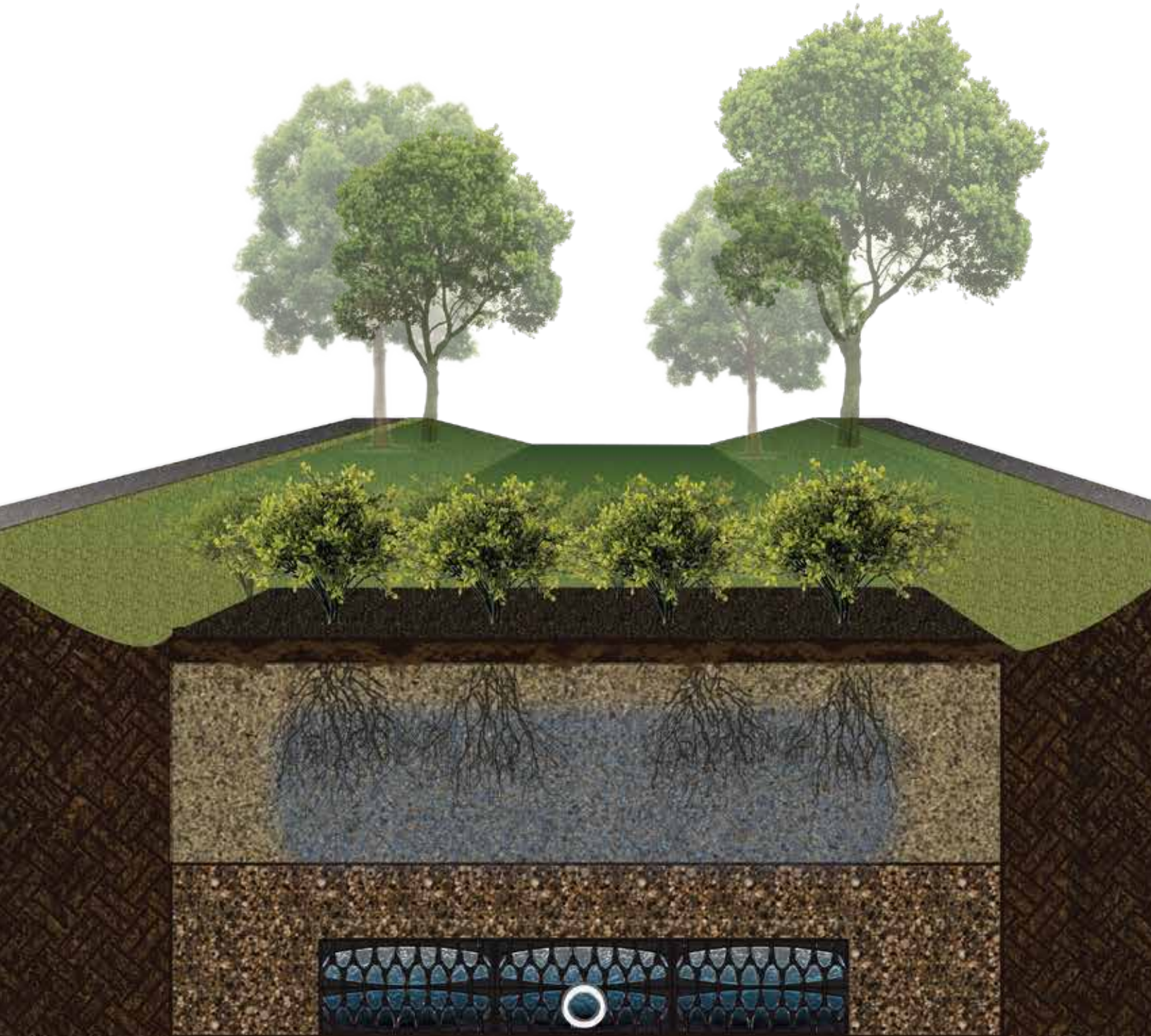
High Performance Modular
Biofiltration Systems



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FocalPoint High Performance Modular Biofiltration Systems (HPMBS) is a scalable biofiltration system which combines the efficiency of high flow rate engineered soils with the durability and modularity of a highly pervious flat pipe underdrain/storage/infiltration system. The modular system is a complete, integrated system with a demanding specification to insure quality assurance with post-installation in-situ verification testing, the FocalPoint HPMBS is performance guaranteed.



All System Components Uniquely Specified, Site Built

95% open
surface area

100" /hour
Infiltration Rate

Water Quality
& Volume

Minimal
Maintenance

Open Cell Underdrain

A modular, high infiltration rate 'flat pipe' underdrain/stroage system which is designed to directly infiltrate or exfiltrate water through it's surface. The modular underdrain overcomes the limited collection capacity of traditional stone and pipe underdrains. A 95% open surface area collects water significantly faster and can be extended below for additional volume.

Separation Layer

A wide aperture mesh layer is utilized to prevent bridging stone from entering the underdrain system. A separation layer which utilizes the concept of 'bridging' to separate the biofiltration media from the underdrain without the use of geotextile fabrics. No Geotextile = No Clogging

High Flow Media

Advanced High flow rate engineered soils utilizes physical, chemical and biological mechanisms of the soil, plant and microbe complex, to remove pollutants found in stormwater runoff. Infiltration rates at 100" per hour overcome the challenges of clogging and flooding and minimize space requirements.

Mulch

Shredded, hardwood mulch acts as a pre-treatment mechanism by preventing trash, sediments and particules from entering the system. Removal and replacement of mulch is necessary only every 6-12 months and is the only maintenance requirement for the entire system. Maintenance cycles may be extended with the implementation of upstream pretreatment.

Plants

Native Plants are best suited as they adjust well to periodic droughts and temperature extremes. The media contains 10% by volume peat moss. Over the years the decaying mulch, roots, fungi, bacteria and organic inputs from stormwater runoff add to the organic mix as it evolves as more natural soil strata. Soil moisture is maintained through the use of peat moss and mulch





Modular
Design

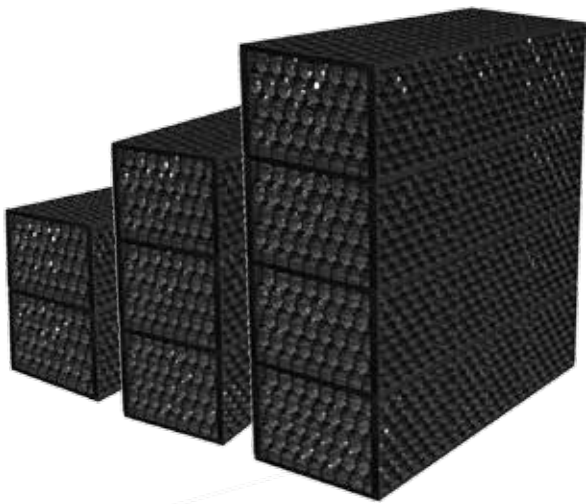
Scale

Flexibility

Factors of
Safety

The FocalPoint's modular flat pipe underdrain, unlike a traditional underdrain, not only supports the flow rate of the media, but can be expanded beyond the footprint of the media bed to provide unlimited underground detention, infiltration and/or storage for water reuse. The underdrain is matched to media infiltration rate and the modular flat pipe can be sized for various depths/volumes.

Combines Efficiency,
Durability, & Modularity



95%

Open Surface Area

The system can be used in combination with traditional LID BMPs such as swales and vegetated depressions, enables implementation of green streets using urban sidewalk planters and downspout planters, replaces underground treatment systems and retrofit for failed bioretention or used to enhance existing systems for higher performance and lower costs. FocalPoint provides unlimited application opportunities for new construction and redevelopments.

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Guaranteed Performance & Verification

The complete, integrated system designed by SF or LF and unique 'cap & seal' protection process eliminates key reasons for bioretention failures. The simplified construction sequencing increases factors of safety and provides higher reliability. Construction obstacles are manageable and to ensure proper installation construction oversight is incorporated in our specification. Provisions are made for site drainage and short/longterm protection prior to system activation.

Construction Oversight

Factors of Safety

'Cap & Seal' Protection

Activation



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