

THE GEOSOURCE UPDATE

Geosynthetics | Erosion & Sediment Control | Stormwater Management | Hardscapes

PROJECT HIGHLIGHT

Stormwater Management Solution for Parking Lot PaveDrain & R-Tanks Supplied by ASP

The Arnold Hall public parking lot in downtown Lee's Summit, MO was recently upgraded with a stormwater management solution supplied by ASP Enterprises.

Problem: The city came to ASP looking for a solution to reduce runoff and manage stormwater. Problems faced:

- The parking lot had very poor drainage.
- The businesses adjacent to the parking lot had flooding issues after large storm events.
- The public infrastructure was overwhelmed with increased runoff from increased imperviousness from buildings, parking lots, and streets that were constructed within the watershed for the past several decades.
- The existing storm sewer pipes under the street were beyond capacity, so they got backed up during significant rain events.

Solution: The original parking lot was excavated to make room for the installation of R-Tanks. R-Tanks are stormwater modules that provide underground storage for stormwater. Their ability to be installed under the PaveDrain worked well with the small footprint of the project site. PaveDrain, a permeable articulating concrete block system, was installed on top of the R-Tanks. The blocks have 1/4" open, aggregate-free joints that allow stormwater to pass through into the underground detention system below.

Results: After working with ASP, this parking lot is now equipped to handle stormwater. The green infrastructure and LID solutions added at this site help alleviate flooding by reducing impervious areas, capturing runoff, and maximizing control volumes to slow the release of stormwater into the public infrastructure. Added benefits are cleaner, cooler water entering the downstream waters.



PRODUCT PROFILE

Presto Geosystems GEOBLOCK® Grass Porous Pavers Deliver Performance

The GEOBLOCK Porous Pavement System is the industry's strongest and most proven high-performing turf protection system for occasional vehicular and pedestrian traffic. It's a green solution that offers a natural aesthetic, dependable load support, and high permeability. The system contributes to green building goals and LEED® credits.

With an engineered base (30% topsoil/70% aggregate) and topsoil infill, the GEOBLOCK Grass Pavers support loading up to HS25, are highly permeable to maximize stormwater percolation, and offer an optimal growing medium for vegetation.

Less base = less excavation, less fill material, and less cost.

The two GEOBLOCK styles will address all loading and stormwater requirements for your project:

- GEOBLOCK - Regular duty, 1.2" wall height
- GEOBLOCK5150 - Heavy duty, 2" wall height

Design vegetated fire access lanes, auxiliary parking areas, recreational trails, medians/road shoulders, and greenways with the GEOBLOCK Grass Paver System.



ISTORM CONFERENCE

September 15-16, 2022 | Ankeny, IA



Join Quick Supply Co. at Iowa's Premiere Stormwater Conference and Exhibition. IStorm 2022 will provide an unparalleled opportunity to network with stormwater professionals from cities, counties, consultants, as well as other design professionals and government agencies. Conference tracks include MS4 Implementation, Green Infrastructure, Erosion and Sediment Control, Floodplain and Watershed Management, Research, and Community Outreach. The conference will include technical presentations, case studies, panel discussions, and field trips.

Our Civil Engineer, Bill Murphy, will present on **Permeable Pavements & Curbside Pretreatments** at IStorm. Bill is also leading a **Permeable Paver Maintenance Demo**. We hope to see you there!
[Learn more and register here.](#)

TECHNICAL TALKS WEBINAR SERIES

Our monthly webinars are back! Join us as we answer questions, share technical information and collaborate on projects. Plus, attendees receive a PDH Certificate for attending. Our goal is to educate attendees on some of the site solutions we can provide.



UPCOMING WEBINARS

Sediment Control Solutions

September 7th, 2022 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Sediment control has become a big part of the construction process. It is a requirement of the Clean Water Act to keep our waterways and the area surrounding jobsites clean. Bill Murphy, P.E. and Don Thieman, CPESC are hosting this webinar full of sediment control solutions. We will provide a breakdown of best management practices and discuss product solutions for each sediment control application. Don & Bill will inform attendees on the difference between products, when to use them, and what is the best solution for different scenarios. We hope you walk away from this webinar with a “toolbox” full of sediment control solutions for any project you encounter.

Erosion Control Solutions

October 5th, 2022 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Don Thieman, CPESC & Bill Murphy, P.E. are back to discuss a variety of erosion control solutions in this webinar. They'll talk through everything erosion control from slope stabilization and bridge abutments to shorelines, channels and drainage ditches. The products covered will range from short-term to permanent erosion control solutions, many involving vegetated solutions. Bill & Don will inform attendees on the best products to use when addressing different erosion problems and explain the differences between the products. You'll leave this presentation with a comprehensive overview of how to handle erosion issues and a list of solutions at your disposal.

EMPLOYEE SPOTLIGHT



Connor Fosse

Technical Sales Representative at ASP Enterprises - Wichita, KS

Connor joined ASP's team in February of 2022 as a technical sales representative in our Wichita market. He is a Wichita, Kansas native and lives in Wichita with his wife Bailee and their two black labs. Connor's background is in landscape and hardscape sales. Connor is driven to make connections with his co-workers and customers. He enjoys learning about all the new products and meeting all the new customers. Outside of work, Connor enjoys WSU basketball, OU football and spending time at Table Rock Lake.

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ENGINEER'S NOTE



Bill Murphy, P.E.
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From the Desk of Bill Murphy, P.E.

Who is supposed to maintain your Green Infrastructure?

Many of us with siblings are familiar with the childhood countdown “1, 2, 3, not it!” We used it as a way of getting out of doing something, usually a chore. It didn’t really work, but we sure tried. Over the past several years, I have seen similar behavior among various departments within cities across the country when it comes to maintenance responsibilities for green infrastructure (GI). It is great to see how many cities have installed water quality units, bioretention cells, rain gardens, sediment ponds, forebays, permeable paving, curb inlet filters and a myriad of GI practices. Surprisingly often GI practices are installed with no conversation about who is going to maintain those features in the future. The future is now. We have met with communities who think GI systems do not work when the reality is that their systems would work fine if they maintained them properly.

Here are some examples:

- **Permeable Surfaces:** Regular cleaning removes debris, leaves, grass clippings, and sediment from the surface before it degrades and enters the aggregate base. If not, the porous surface gets plugged, and the system no longer drains, which leads to ponding.
- **Curbside Pretreatment & Forebays:** If left alone for months, trash accumulates on top while sediment and organic matter collect within the unit, creating an unattractive, unintended weed patch or tree planter.
- **Bioretention Cells, Rain Gardens, Grassed Swales:** These vegetated solutions are the prettiest green practice because they mimic nature and blend in with the landscape. But if unattended, they become overgrown eyesores filled with undesirable weeds.
- **Sediment Ponds:** These are more of a BMP than a GI practice, but are often left in place after construction, thus becoming part of the maintenance responsibilities along with GI practices.
- **Water Quality Structures:** Out of sight, out of mind, right? Wrong. Hydrodynamic separators, inlet filters and other water quality units collect trash, sediment, and pollutants, so they must be regularly cleaned, or they will plug and cause flooding upstream. The public will see that as a failure of the system when, in fact, it was just neglect.

All of this is not to chastise or offend, but rather to highlight the need for open dialogue between government agencies and the public. GI is vitally important to public health, so we must be honest about the cost of maintenance to assure ongoing success. Please let us help you. We can help you train your staff. Let’s normalize post-construction meetings like we do pre-con meetings. Call us today.



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