# Washington U. Stormwater Detention Case Study



The Midwest's **Most Truste** Site **Solutions Provider** 

Project: Washington University
School of Medicine Environmental Health

and Safety Building

Location: St. Louis, Missouri

Application/Solution:

Stormwater Detention/Water Quality

Market Sector: Private Commercial

Salesperson: Guy Litteken

**Owner: Washington University** 

School of Medicine

**Engineer: Genesis Engineering** 

**Subcontractor: Concrete Strategies** 

Installed: August 2014

ase study

### Challenge

As part of the design for Washington University's new Environmental Health and Safety Building, Genesis Engineering needed to incorporate stormwater design aspects to prevent runoff from entering the combined sewer system too rapidly. If the additional impervious area created by the development were allowed to immediately drain into the combined sewer, sewer backups would occur.

Site for BMP is excavated and soil compaction verified.

#### **Solutions**

Genesis worked on a site-specific underground detention design with ADS/StormTech's Technical Services to design a MC-3500 chamber stormwater storage system.

#### Results

This solution offered a number of benefits to the client, including a low cost and rapid installation along with the ability to install this sub-surface BMP early in construction. StormTech chambers also offer the benefit of pretreatment of site runoff with their patented Isolator\* Row as well as the open bottom chamber to encourage infiltration and reduced downstream flow. Local ADS sales and engineering also provided installation support from preconstruction to completion.



Placement of non-woven geotextile, clean aggregate and 6" N12 perforated underdrain pipe.



Arch chamber placement begins.

## Washington U. Stormwater Detention Case Study continued



Site Solutions Provider

#### **Products**

Manufacturers included in solutions and product:

Product:

MC-3500 Chamber

Manufacturer:

Advanced Drainage Systems/

StormTech



installed.



Note ease of handling.



Arch chamber installation is completed. Notice woven geotextile placement to avoid scouring of clean rock.

Quick Supply Co.

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Corporate

Headquarters



Excavation for BMP is backfilled completely with clean aggregate and protected with nonwoven geotextile.

## **Company Information**

ASP Enterprises, Inc. and Quick Supply Co. For more than three decades, A.S.P. Enterprises and Quick Supply Co. has served the erosion control industry with integrity and expertise. We provide engineers and landscape contractors the exceptional value for their money and have grown to become the Midwest's full-line distributor of erosion-control, geosynthetics, storm water management products, wall block, landscape pavers, and drainage products.

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