# Lake Cunningham Stormwater □ □ Infiltration Case Study



Project: Lake Cunningham **Universal Water Access** 

Location: 96th & Garvin St.

Omaha, Nebraska

Application/Solution:

Permeable Articulating Concrete

Block using PaveDrain

Market Sector: Stormwater Infiltration

Salesperson: Lynn Ewoldt

Owner: City of Omaha Parks Department

Engineer: Ehrart Griffin & Associates

Contractor: Dostals Construction

Installed: June 2014



Site Solutions Provider

### Challenge

The City of Omaha Parks Department wanted to install a one of a kind in the area handicap accessible kayak lift at Lake Cunningham. They also needed an ADA compliant parking area at the park. The parking lot would be near the lake so they didn't want any runoff occurring to the lake. Upfront suggestions included pervious concrete but due to the cost, ease of installation and functional longevity of the product it was quickly disregarded.

#### **Solutions**

The PaveDrain System proposed by ASP was ultimately chosen for the solution for the project. PaveDrain is a permeable articulating concrete block. It can be hand placed individually or cabled together at the factory and placed as mats. The hand place option was chosen by the contractor due to the size and limited space of the project. Mirafi RS380i, a woven high-performance polypropylene geosynthetic fabric was chosen for reinforcement, separation, confinement and filtration over the soft subgrade and under the clean bedding stone that is placed under the PaveDrain. A unique feature of the PaveDrain is its arched shape on the underside of the block. This allows for additional water storage during a rain event. With 4,000 inches/SF/ hour of permeability, the PaveDrain System was an easy choice.



Dirt work beginning May 2014.



Geotextile and aggregate bedding installed.

#### Results

The installation went extremely well. The Universal Water Access project was completed by Dostals Construction. Bodie Dostal, owner of Dostals Construction, stated, "I like the PaveDrain product. The thing that takes the longest to do is get the aggregate level. Once that is done, the block installation is simple and quick." It took them two days to place the filter fabric, bring in the aggregate, compact and level. The PaveDrain block took three days to finish with a three man crew. After eight months of the installation, the parking lot is preforming great. Numerous summer and fall rain events have occurred with no issues. ASP is pleased to provide PaveDrain as a proven site solution for the Lake Cunningham Universal Water Access project.



PaveDrain can be driven on immediately.

# Lake Cunningham Stormwater Infiltration Case Study continued





Site Solutions Provider

#### **Products**

Manufacturers included in solutions and product:

Product: **PaveDrain** 

Manufacturer:

**PaveDrain** 

Product:

RS380i

Manufacturer:

TC Mirafi

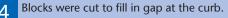
**Product:** 

Straw Wattles

Manufacturer:

North American Green











3,600 SF PaveDrain complete.



## **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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