

Coldwater Creek Streambank Stabilization Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Coldwater Creek

Salesperson: Mark Stirnaman

Location: Florissant, Missouri

Owner: Metropolitan St. Louis

Application/Solution:

Sewer District

Detention Pond, Flood Mitigation

Contractor: Ideal Landscape

Market Sector: Municipal

Installed: January 2011

case study

case study

Challenge

The challenge of this job was to build a detention pond for an apartment complex without encroaching on the building footprint of the apartments or Coldwater Creek.



1 Un-vegetated.

Solutions

This was achieved by building a reinforced slope as a bank of the creek that would not have been stable without the use of geosynthetic reinforcement and a Turf Reinforcement Mat. The contractor removed the existing soil and created a stable platform to build on. Once that was completed they brought the existing soil back in, as well as other fill material, in 18" lifts with alternating layers of Tensar BX Type 1 and UX 1400 HS. Once the slope was built and stable the contractor protected it with North American Green's C-350 TRM to assist the vegetation. There is a small section where the overflow of the detention basin outlets onto the slope that was protected with North American Greens P-550.



2 Partially vegetated.

Results

The finished product is a beautiful slope with vegetation growing on it that is protected from rising water of Coldwater Creek and meeting all the detention requirements of the apartment complex.



3 Fully vegetated.

Coldwater Creek Streambank Stabilization Case Study continued



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Products

Manufacturers included in solutions and product:

Product: BX Type 1

Manufacturer: Tensar

Product: UX 1100

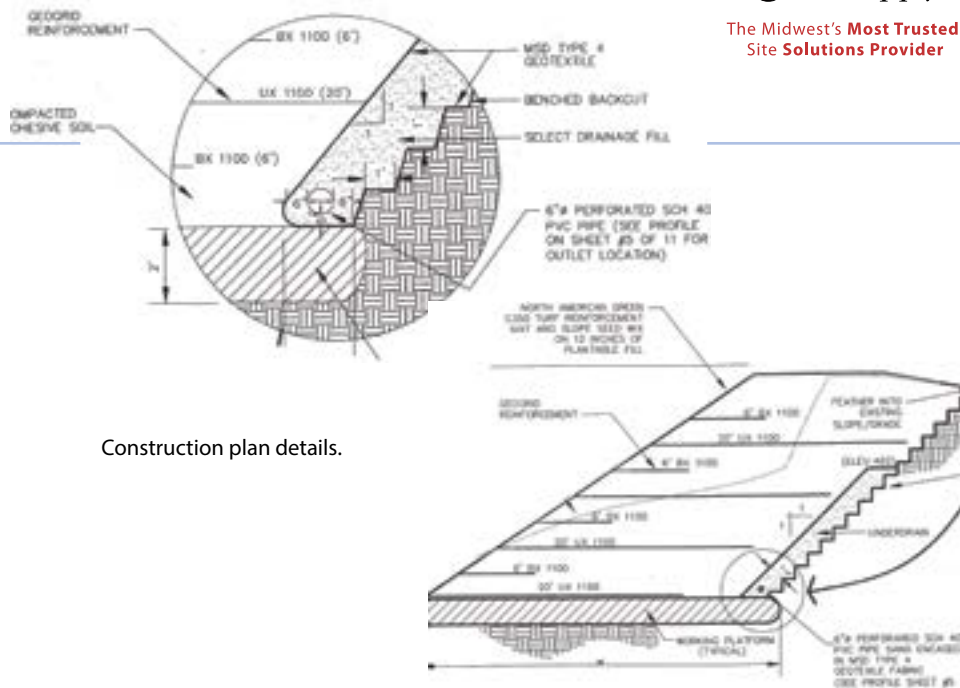
Manufacturer: Tensar

Product: NAG C-350

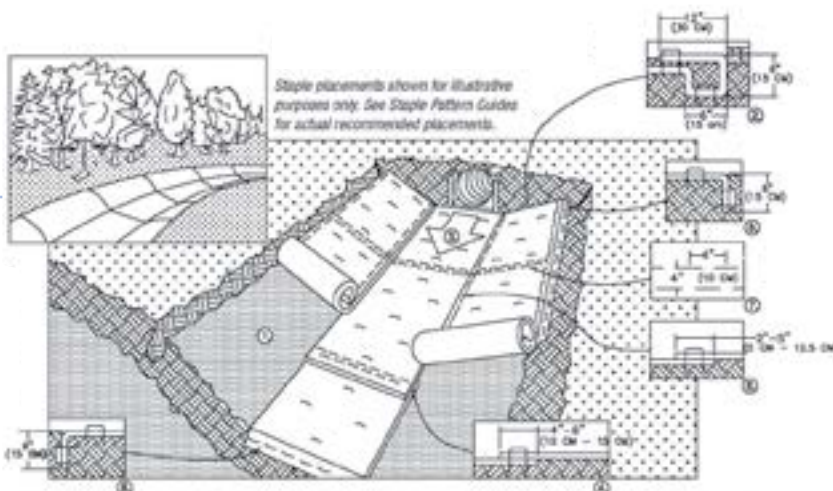
Manufacturer: North American Green

Product: NAG P-550

Manufacturer: North American Green



Construction plan details.



Standard installation details.

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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