

City of Omaha Ditch Stabilization Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: 36th & McKinley CSO

Location: Omaha, Nebraska

Application/Solution: Ditch Stabilization

Market Sector: Municipal

Salesperson: Brian Williams

Owner: City of Omaha

Engineer: Tim Papstein, PE

Contractor: Graham Construction

Installed: October 2014

case study

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Challenge

This job was part of a larger sewer separation project. The site was a rather steep gravel road within city limits. The ditches along both sides of the road had eroded to the point that if a vehicle veered of the road someone could be seriously injured. Limited road width and the need for a shallow ditch caused design issues and constant clean out and maintenance had become a major issue, also.



1 Ditch before.

Solutions

In order to create a stable, low maintenance yet green roadside ditch Flexamat with excelsior backing was specified. 13,420 sf of Flexamat was installed using 61 rolls of 5.5'x40' mats. Road ditches were protected gradually as storm sewer pipe was installed. North American Green SC150 BN was used to protect adjacent slopes and less sever ditches.



2 Ditch prep.

Results

Instead of expensive retaining walls and a wider ditch the Flexamat allowed for higher flows in a narrower yet shallow ditch keeping costs down and drivers safer. The project engineer said the mats went in quick and easy but they are waiting for spring rains to see how everything holds together.



3 Grid seam.



Products

Manufacturers included in solutions and product:

Product: Flexamat

Manufacturer:

Motz Enterprises

Product: SC150BN

Manufacturer:

North American Green



4 East side of road.



5 West side of road.



7 Both ditches after work.



6 Before CSO work.

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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