



## ROADSIDE CHANNEL STABILIZATION

### Project

Auburn Church Road

### Location

Raleigh, North Carolina

### Product

North American Green VMax® C350®  
Composite Turf Reinforcement Mat (C-TRM)

### Project Summary

The City of Raleigh specified the North American Green C350® composite turf reinforcement mat (C-TRM) in place of traditional “hard armor” rip rap for the roadside channels along Auburn Church Road. The channels were properly graded and lime, fertilizer and seed were applied before the matting was rolled out and securely fastened into place.

The installation was subject to intense rainfalls over the course of its first 6 weeks as the result of both Hurricane Dennis and Hurricane Floyd that hit Eastern North Carolina during that time. Even though they were only partially vegetated, these C350® lined channels remained stable and withstood estimated Velocity of 10.0 fps and Permissible Sheer Stress of 10.0 psf. The C350®’s patented combination of a natural coconut fiber matrix with a three-dimensional high strength synthetic net structure prevented short term erosion of these channels prior to the full establishment of permanently reinforced vegetation.

On this project, the C350® C-TRM held strong despite the extreme conditions! This installation proved that a properly designed and installed channel lined with C350® can perform even under the most strenuous conditions thereby providing a “soft armor” alternative to rip rap ditches.

## Project Profile



Phase 1  
Unvegetated channel protection



Phase 2  
Initial vegetation establishment



Phase 3  
Permanently reinforced turf

### WAREHOUSE LOCATIONS

Middlesex	877-235-5015
Elizabeth City	252-333-3788
Trenton	910-324-5459
Frederick	301-631-0822

[www.getsco.net](http://www.getsco.net)