

## ROUTE 1 SECTION 6V

NORTH BRUNSWICK TOWNSHIP, NJ



## DESIGN, BUILD, DONE

### CHALLENGE:

Four MSE abutment walls totaling 12,000 square feet were designed for a two phase construction project. The NJDOT required some challenging architectural treatments be used for both the MSE walls and precast barriers. The MSE walls were designed such that panels were placed in a random fashion to ensure there was no repetitiveness in the MSE facing look which was required by the contract specifications.

**INNOVATION:**

During the first phase, 3,600 square feet of EarthTec temporary wire wall was installed to allow traffic use until phase two was ready to be constructed. The temporary wire wall was designed to accommodate placement of a 24 inch RCP Pipe through its face. Slip joints were designed to ensure a smooth transition from the first phase of MSE wall construction to the second phase of construction

NJDOT required a traffic barrier with an architectural finish which is specific to this corridor. J. Fletcher Creamer & Sons wanted to utilize precast barrier to avoid costly CIP work in the field. In order to accommodate this need, EarthTec provided custom detailed precast units designed to include pilasters, pylons, light standards and transitions which saved time and money over the cast in place options.



**ONE SOURCE...MANY SOLUTIONS!**

- MSE Walls
- Sound Walls
- Tieback Walls
- Soil Nail Walls
- Geopier Foundations
- Underpinning
- Impact Pier Foundations
- Micropiles
- Rapid Impact Compaction (RIC)

**April 2009-2010**

**Owner:** New Jersey Department of Transportation, Trenton, NJ

**General Contractor:** J. Fletcher Creamer & Sons, Inc., Hackensack, NJ

**Engineer:** Stantec Consulting Services, Inc., Mount Laurel, NJ

**GeoStructures, Inc.**  
Engineered Earth Structures & Foundations

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