GP3®

North South Boulevard Bridge MSE Wall

Greenbelt, Maryland

The Geopier GP3® System was chosen as a result of the ability to provide measurably higher friction angles, thus providing increased bearing capacity

Description: The project required MSE wall foundation support at each bridge abutment at the entrance to a new property development. The constructed MSE walls were 700 linear feet with heights up to 24 feet and bearing pressures up to 3,750 psf.

Subsurface Conditions: Soil conditions consisted of loose to dense silty sand, sand and clay fill extending to depths of three to 12 feet over soft to medium stiff sandy clay of about 15 feet.

Geopier Solution: The Geopier GP3® system was awarded the contract to provide a soil improvement solution. Although dynamic compaction as well as overexcavation and replacement were considered, the Rammed Aggregate Pier® elements delivered measurably higher friction angles, thus providing increased bearing capacity.

PROJECT TEAM

Owner:
GB Development

Geotechnical Engineer:
Hardin-Kight Associates, Inc

Civil Engineer:
Dewberry

General Contractor:
Concrete General

Geopier Installer:
GeoConstructors, Inc.

Geopier Designer:
GeoStructures, Inc.

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