



Fairfield Inn & Suites by Marriott

Fort Pierce, Florida

The Geopier Impact® system was constructed with recycled concrete aggregate to help decrease the demand for virgin building material.

Description: Foundation support for construction of a new, four-story, 16,000 square foot concrete hotel structure adjacent to I-95 and other hotels and restaurants near the I-95 interchange.

Subsurface Conditions: About 15 feet of loose to medium dense clayey sand (SPT N-Values of 2 to 14) overlying about 5 to 10 feet of loose to medium dense clean sand (SPT N-Values of 2 to 4) overlying medium dense sand with silt. The groundwater table was encountered within 2 ft of existing grade.

Geopier Solution: A check of local weather records would show that it rained almost every day during the pier installation time period. Even with the dry Impact® System, the rain on the native clayey sand soils resulted in a challenging site condition. Once the rains started, the GC was even more grateful they had chosen this system instead of the stone column method, which would have greatly increased the challenge of maintaining a site condition that would be workable and not adversely affect other hotel and restaurant businesses on adjoining properties.



PROJECT TEAM

Owner:

OTO DEVELOPMENT

Geotechnical Engineer:

MACTEC

Structural Engineer:

Wallace Engineering Structural Consultants, Inc.

General Contractor:

McCorkle Construction Company

Geopier Installer:

Peterson Contractors, Inc.

Geopier Designer:

GFC-Southeast Coast