



National Capital Relocation Administrative Facility Andrews Air Force Base

Camp Springs, Maryland

The Geopier Impact® system saved time and money and the installation used 90 percent less fuel than the undercut and replace method

Description: Base Realignment and Closure/National Capital Region Relocation Administration Facility (BRAC/NCRRAF) located on Andrews Air Force Base was a fast-track, design/build project.

Subsurface Conditions: Soil conditions consisted of up to 3 feet of loose silty and clayey sand fill underlain by up to 10 feet of loose to medium dense clayey sand, underlain by medium dense sand and silty sand, underlain by medium stiff sandy fat clay near Elevation 245 feet. Groundwater was encountered near Elevation 260 feet.

Geopier Solution: GeoStructures/GeoConstructors designed and installed approximately 1,300 Impact® elements for settlement control of this five-story, 380,000 square foot building. The Impact system saved the CDM/CAPE Joint Venture time and money versus the alternative, traditional undercut and replace methods. An added benefit of using the



Impact system was the installation used 90 percent less fuel than the undercut/replace operation, which was consistent with the LEED® Silver requirement for the project.

PROJECT TEAM

Owner:

US Air Force

Geotechnical Engineer:

Schnabel Engineering

Structural Engineer:

AECOM

General Contractor:

CDM/CAPE Joint Venture

Geopier Installer:

GeoConstructors, Inc.

Geopier Designer:

GeoStructures, Inc.