GP3®

Grady Memorial Hospital

Atlanta, Georgia

The ease of construction in a 22-foot deep excavated site made the Geopier GP3® system an attractive value engineering alternative

Description: Construction of a 16-story steel-framed masonry building and 12-story steel-framed masonry addition construction on top of existing 4-story building. Maximum column loads were 2,300 kips and 1,700 kips, respectively.

Subsurface Conditions: Soil conditions consisted of residual silts and sands.

Geopier Solution: The Geopier GP3® system was selected and Rammed Aggregate Pier® (RAP) elements were installed to support the mat foundation for the 16-story tower. The ease of construction in the 22-foot deep excavated site made Geopier an attractive value engineering alternative. The project was completed in three days using two crews alternating 12 hour shifts. Maximum measured settlement was less than ¾ inch. RAP elements were used to support shallow spread footings designed for an allowable bearing pressure of 6,000 psf for the 12-story addition. Total measured settlement was less than ½ inch. An unexpected underground utility was found within one footing area and a redesign was accomplished during construction to bridge the utility, allowing it to remain in place. The design flexibility saved weeks of time and considerable additional costs.

PROJECT TEAM

Owner:
Grady Memorial Hospital

Structural Engineer:
John Portman & Associates

General Contractor:
Beers Construction

Geopier Installer:
Intermediate Foundations, Inc.

Geopier Designer:
GFC Southeast

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