



Sybase Corporate Headquarters

Dublin, California

The Geopier GP3® system was chosen over drilled piles, because it provided cost-effective foundation support while substantially reducing construction time

Description: Corporate headquarters project to consist of two, six-story office buildings located on 14 acres. Each building will have a footprint of about 32,400 sq. ft. and will have a slab on grade. Interior and exterior column loads ranging from 250 kips to 1,200 kips.

Subsurface Conditions: Subsurface conditions consist of fill overlying native soil. The fill consists of very soft to very stiff silty clays and silty clays with sand, with varying amounts of gravel and some organics. Groundwater was encountered at a depth of approximately 20 feet below grade.

Geopier Solution: The Geopier GP3® system was recommended by the Geotechnical Engineer as a cost-effective alternative to driven piles. Though driven piles were given first consideration, the relatively high ground-water table and fact that one of the buildings was located in an area where groundwater contamination had already been encountered, made it apparent that they would not be an economical solution. Rammed Aggregate Pier® (RAP) elements were used to support shallow spread



footings sized for an allowable bearing pressure of 6,500 psf. The RAP elements ranged in shaft length from 10 ft. to 18 ft. to effectively control settlement. Despite intermittent periods of inclement weather, construction was able to continue. The end result was that the Geopier approach provided significant cost savings and schedule advantages.

PROJECT TEAM

Owner:

WDS Dublin, LLC

Geotechnical Engineer:

Kleinfelder, Inc.

Structural Engineer:

Middlebrook + Louie Inc.

General Contractor:

DPR Construction, Inc.

Geopier Installer:

Farrell Design-Build Companies Inc.

Geopier Designer:

Farrell Design-Build Companies Inc.