

Oracle Office Building

Reston, VA



Project Description: Oracle, the premier supplier of high tech software for business systems, used a high-tech foundation system to support their new 8-story office building in Reston, Virginia. Instead of cutting 10 to 15 feet of weak fill soils underlying the building foundations Geopier elements were used to reinforce the fill soils. The soils at the site consisted of loosely placed sandy silt fill excavated from previous construction activity at the site overlying Piedmont residual silts. Individual column loads for the building are relatively high and range from 400 to 1600 kips. Therefore by using the Geopier system, besides providing superior settlement control for the building foundations, the Geopier Foundations were more economical and saved time on the construction schedule when compared to the over excavation and replacement alternative. Actual lengths for Geopier elements ranged from 8 to 16 feet deep.

THE GEOPIER ADVANTAGE

- Saved Time & Money versus the option of undercutting and replacement
- Eliminated the potential risk associated with undercutting in the Spring season and the unknowns associated with the depth of poor soils
- Higher allowable bearing pressures associated with the Geopier supported footings reduced concrete costs

Developer: Spaulding & Slye, Washington, DC

General Contractor: Clark Construction Group, Bethesda, MD

Architect: Davis Carter Scott, McLean, VA

Structural Engineer: McNamara/Salvia, Inc., Boston, MA

Geotechnical: Engineering Consulting Services, Ltd., Chantilly, VA