

Innslake Corporate Center

Richmond, VA



Project Description: This 3-story office building is located at 4355 Innslake Drive in Glen Allen, Virginia. Conventional shallow foundations supported by 30-inch diameter Geopier elements were designed for up to 6 ksf allowable bearing pressures. Geopier element lengths of 8 to 12 feet were used for support of spread footing column loads of up to 190 kips. The Geopier elements at several interior columns were designed and constructed with uplift anchors to provide an allowable uplift capacity of 25 kips each and allow for smaller footing sizes. Additionally, the increased sliding resistance provided by Geopier-supported spread footings permitted the elimination of grade beams that would have been required traditional soil supported spread footings. A total of 140 Geopier elements, including 16 equipped with uplift anchors, were successfully installed at the site in the spring of 2001.

THE GEOPIER ADVANTAGE

- Geopier soil improvement provided for 6-ksf design allowable bearing pressures, which reduced footing sizes.
- Use of Geopier uplift anchors reduced footing sizes.
- Increased sliding resistance provided by Geopier-supported footings permitted the elimination of grade beams.

General Contractor: Hourigan Construction Corporation, Richmond, VA

Architect: CMSS Architects, P.C., Virginia Beach, VA

Structural Engineer: Stroud, Pence & Associates, Ltd., Virginia Beach, VA

Geotechnical Engineer: Schnabel Engineering Associates, Richmond, VA