

Barnes-Jewish St Peters Hospital Addition St Peters, Missouri

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: SCI Engineering, Inc.

Structural Engineer: Heideman & Associates, Inc.

Owner: Barnes-Jewish St Peters Hospital

General Contractor: Paric Corporation

Geopier Installer: Foundation Service Corp.

Geopier Designer: GFC – Midsouth, LLC

The Geopier Intermediate Foundation solution for support of shallow footings provided significant cost savings and schedule advantages as compared to conventional alternatives.

Project Overview

Description:

Construction of a new one story addition to the existing structure, designed for two additional future floors. Column loads range from 125 to 400 kips.

Subsurface Conditions:

Upper stratum of non-engineered, clayey fill underlain by soft to stiff silty clay and clay. Standard penetration test SPT N-values ranged from 2 to 15.

Geopier Solution:

The Geopier Intermediate Foundation System was chosen as an alternative to drilled piers, which would have required drill depths ranging from 45 to 55 feet to reach competent shale. Geopier Rammed Aggregate Piers (RAP) were used to provide a design bearing pressure of 5,000



psf for shallow spread footings. RAP shaft lengths ranged from 10 to 14 feet below footing bottoms. The Geopier approach for support of shallow footings provided significant cost savings and schedule advantages as compared to conventional alternatives.

FOR MORE INFORMATION

Contact Geopier Foundation Company at **800-371-7470**
or at **www.geopier.com**



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The Intermediate Foundation System