Christian NW Outpatient Care Center
Florissant, Missouri

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: Midwest Engineering Services

Structural Engineer: KPFF Consulting Engineers

Owner: Christian Northwest Hospital

General Contractor: S. M. Wilson Company

Geopier Installer: Foundation Service Corp.

Geopier Designer: GFC – St. Louis

The use of Geopier Rammed Aggregate Piers (RAPs) provided significant cost savings and schedule advantages as compared to alternatives.

Project Overview

Description:
Construction of a new two-story medical building covering an area of about 42,000 square feet. Column loads range from 80 to 320 kips.

Subsurface Conditions:
Ten feet of fill consisting of lean clay, rock, brick and wood fragments was encountered at the site. The fill was underlain by deep deposits of soft to medium-stiff clay. Beneath the fill, SPT N-values were measured in the natural soils ranging from 2 to 9 blows per foot.

Geopier Solution:
The Geopier Intermediate Foundation System was developed to support shallow footings as an alternative to deep foundations extending to bedrock. Geopier Rammed Aggregate Piers (RAP) were used to limit settlement and provide an increased design bearing capacity of 5,000 psf for shallow spread footings. A total of 232 RAPs were installed to a depth of 14 feet below footing bottoms.

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

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The Intermediate Foundation System

G-H-005