

# Home Depot Overland, Missouri

Geopier® Rammed Aggregate Piers™

## Project Team

**Geotechnical Engineer:** Terracon

**Structural Engineer:** WD Partners

**Owner:** Home Depot

**General Contractor:** Brinkmann Constructors

**Geopier Installer:** Foundation Service Corp.

**Geopier Designer:** GFC – St. Louis

**The installation of the Geopier Rammed Aggregate Pier System allowed for the original spread footing design to remain unchanged and eliminating the need for structural redesign of the entire foundation.**

## Project Overview

### Description:

Construction of a new retail store with maximum column loads of 108 kips per foot and maximum wall loads of six kips per foot.

### Subsurface Conditions:

Soft to stiff silty clay was encountered to depths of 13 to 25+ feet, grading to highly weathered shale.

### Geopier Solution:

The Geopier Intermediate Foundation System was developed to reinforce the existing fill and support shallow foundations. A total of 253 Geopier Rammed Aggregate Piers (RAPs) were installed and provided an allowable bearing pressure of 3,000 psf as required by the structural design of the building. The use of RAPs eliminated the need for a deep foundation, which would have required redesign of the entire foundation. The installation of the RAPs allowed for the original design to remain unchanged and provided significant cost savings and schedule advantages as compared to the drilled pier alternative.



### FOR MORE INFORMATION

Contact Geopier Foundation Company at **800-371-7470**  
or at **[www.geopier.com](http://www.geopier.com)**



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*The Intermediate Foundation System*