Structural Systems Repair Group Installs (16) Helical Piles for New Foundation Wall to Convert Old Bakery Building to Men's Drop Inn Center

February, 2015

Structural Systems Repair Group
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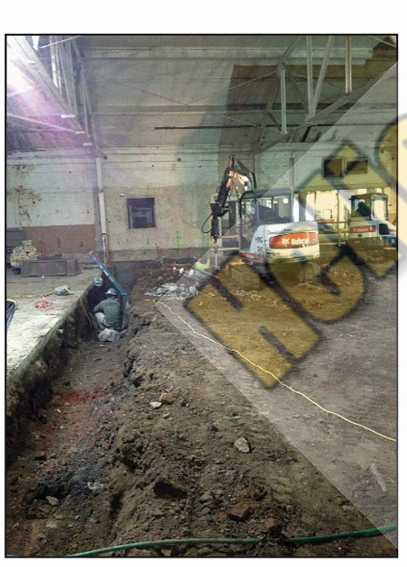
Project Name & Location:	Foundation Augmentation & Rehab Construction - Cincinnati, OH
Project Date:	February, 2015
Project Type:	Helical Pile Deep Foundations for New Structural Wall & Construction of a New Men's Drop Inn Center
Helical Pile Installation Contractor: **General Contractor:** **Project P.E.:** **Geotechnical Engineer:**	SSRG - www.ssrg.com HGC Construction - www.hgcconstruction.com Rick Graman, P.E., GEI Engineering www.gei-engineering.com Terracon - www.terracon.com
Helical Pile Specifications:	(16) 2.875" Round Shaft Helical Piles with 10-12-14 Inch- Helix Bearing Plate; 34 KIP Ultimate Capacity; Galvanized
Soils & Embedment Depth:	Soft Clay to 18 ft. Medium Stiff Clay to 25 ft. Average Pile Embedment 24 ft.
Project Timeline:	Helical Pile Installation - 1 day
Helical Pile Manufacturer:	IDEAL GROUP - Webster, NY

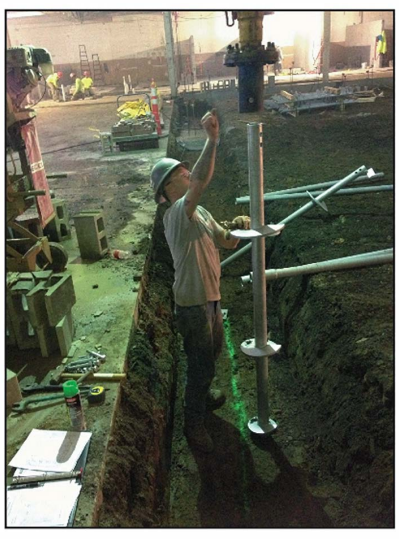
Project Overview

HGC Construction, with headquarters in Cincinnati, OH, was contracted to convert the old Butternut Bread Bakery building in Cincinnati to a men's drop inn center. When engineers determined that the soils on the site were inadequate to support the planned renovation, discussions began to determine the most efficient and cost effective deep foundation solution. Helical pile foundations were determined to be the best deep foundation solution, and Structural Systems Repair Group (SSRG), a division of HGC Construction, was brought in to install the helical piles.

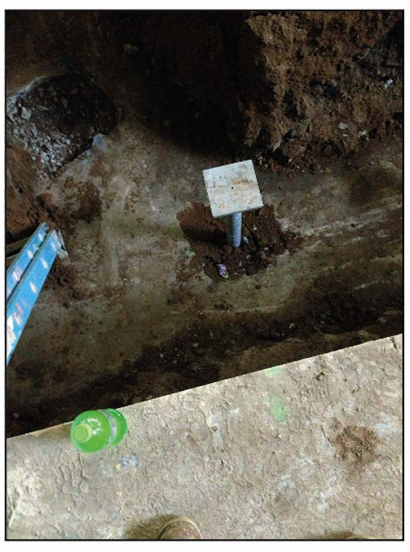


HGC was contracted to convert this decades-old bakery facility into a men's drop inn center. Engineers determined that the soils were not suited to support a portion of the planned renovation, and a deep foundation solution was required. HGC sought advice from its Structural Systems Repair Group division.

"When we learned of the single digit blow count of the soils, I immediately proposed helical piles as the deep foundation solution to avoid the time and expense of removing the poor soils and bringing in the appropriate fill", said project manager Ben Steinhauer.



The (16) 2.875" diameter helical piles manufactured by IDEAL Group were installed to an average depth of 24 ft. to a capacity of 34 kips ultimate capacity. After the piles were cut to the specified elevation, 8" x 8" plate caps were installed on the top of the piles prior to the installation of the rebar. All of the helical pile installation work was completed in (1) day.



HGC Construction is now in the process of completing the construction of the structure that has a planned opening in October.