



Structural Systems Repair Group (SSRG) Installs (9) Helical Piles for Historic Building Renovations in Cincinnati



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Project Name & Location:	Manse Apartments – Cincinnati, OH
Project Date:	January 2020
Project Type:	Helical Piles Deep Foundations
Helical Pile Installation Contractor:	Structural Systems Repair Group , Cincinnati, OH
Structural Engineer:	GEI Engineering, Inc. , Cincinnati, OH
General Contractor:	Model Group , Cincinnati, OH
Helical Pile Specifications:	(9) 2.875" Round shaft galvanized helical piles with 10", 12", 14" helix bearing plates; 20 Ton ultimate compression capacity
Soils & Embedment Depth:	Soils Consisted of Layers of Fat Lean Clays Average Pile Embedment 15 ft.
Project Timeline:	3 Days
Helical Pile Manufacturer:	Helical Anchors, Inc. - Minneapolis, MN

Project Overview

Structural Systems Repair Group (SSRG), with headquarters in Cincinnati, OH, was contracted by Model Group, to install 9 helical piles as a deep foundation system for additions of elevator shafts in the Manse apartments buildings. SSRG will be installing additional piles at these buildings in following months.

Challenge

The major challenge involved in installation of helical piles at this location was poor bearing soils with soft consistency and limited access to elevator pit location. SSRG installed these piles in 5 ft. sections to achieve the required 20-ton ultimate capacity with the hand-held torque drive in this tight access basement. Engineers recommended helical piles due to limited access for equipment and capabilities of hand-held drive to install helical piles in such tight building areas.

