

# The Collective Project

## HELICAL PIERS PROJECT

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### Project

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The project consisted of a deep foundation system for a 3-story mixed use building with garage. Installation of two hundred and twenty six (226) galvanized helical piers to support the foundation system. Hard gray limestone rock was found from around 22 feet to around 34 feet below ground surface.

### Challenge

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The challenges encountered during helical pier installation were minimal:

- Critical path construction schedule



### Solution

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The foundation system for The Collective building was designed for a maximum net soil bearing pressure of 2,500 pounds per square foot (psf) for code dead and live loads plus any short duration loading for the continuous wall footings. Based on the installation torque or spinning on competent cemented shell or limestone layers, all helical piers have satisfied and exceeded an allowable load bearing capacity of 22 kips. Work finished on-time and within budget.

**Contractor:** Deangelis Diamond

**Engineer:** Universal Engineering Services

**Market:** Retail

**Solution:** Deep Foundation

**Services:** Helical Piers