



# Historic Renovation



## Deep Foundations – Installing Micropiles

### PROJECT OVERVIEW

Downtown Indianapolis is famous for the Circle. A new building was to be constructed within the Circle, next to an existing historic building from the 1890s. Access to the site was limited through an alley off the main street into the Circle.

### REQUIREMENTS AND CHALLENGES

All equipment and job products had to be stored on a site that was 118 x 36 feet between two structures built in the 1890's. Poor soils were a major issue. The first layer within the top 15 feet consisted of very poor sand with bricks and concrete. Below was just very poor sand.

The original design from the structural engineer was to use helical piles so we would not disturb the basement of the 1890's building that shared a common wall with the soon-to-be new structure.

### SOLUTION AND RESULTS

Based on the sub-surface conditions and the design needs, CNC Foundations went to the General Contractor with a proposal to use Micropiles in lieu of Helicals that were specified in the construction documents. Bids were proposed for both systems but in the end micropiles offered a more cost effective alternative.

This project was able to stay on schedule and we were able to complete the work in 9 days with using Micropiles versus 15 days if using Helicals.

## Project Details

### SECTOR

Historic Renovation

### LOCATION

Indianapolis, IN

### APPLICATION(S)

Micropiles

