

SITE PREPARATION

» NEW CONSTRUCTION

REMEDIAL REPAIR

HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

» HELICAL UNDERPINNING

EARTH RETENTION

RETAINING WALLS

HELICAL TIEBACK

SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR

BJ's Restaurant and Brewhouse



Photo is courtesy of BJ's Restaurants, Inc.

PROJECT:

BJ's Restaurant and Brewhouse was constructed in an existing mall parking lot in Pensacola, FL.

BACKGROUND:

Prior to construction, a crew surveyed the asphalt settlement at the proposed restaurant location. The soil investigation revealed the construction site used to be a debris pit, extending almost the entire building footprint with depths of approximately 18 ft. below grade.

PROBLEM:

To prevent extensive settlement of the structure's foundation, a deep foundation system was required to transfer the building loads through the debris and into a competent load bearing strata.

SOLUTION:

The design team chose CHANCE® helical piles as their foundation solution for several reasons. Helical piles are drilled directly into the soil without auguring or pulling contaminated soils to the surface, and therefore, no spoils would need to be removed from the site. Also, the work site was in close proximity to adjacent buildings and helical piles provide a vibration-free installation. The piles provide low mobilization cost, no down time to wait for concrete to cure and the ability to monitor torque applied to each pile during installation to accurately determine pile capacity.

Three types of piles were installed for this project and each type was individually load-tested prior to production pile installation. The perimeter footing was supported by a total of 65 CHANCE model SS200/RS3500 combination piles. Each pile supported a working load of 50 kips in compression.

continued

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Hubbell Power Systems, Inc. is the world's leading helical pile/anchor manufacturer. The CHANCE® brand offers a technically advanced, cost effective solution for the Civil Construction and Electric Utility and Telecommunications markets.

CASE HISTORY

The interior floor slab was supported by 60 CHANCE model RS2875.276 pipe piles, and the interior column footings were supported by 33 CHANCE model RS2875.203 pipe piles. The working load for the slab piles was 30 kips in compression, and the working loads for the column piles were 20 kips in compression and 10 kips in tension. Pile depths ranged from 25-35 ft. below existing grade. The load test and pile installation took approximately two weeks to complete.

KEY BENEFITS:

- Limited access
- Time to install faster than concrete
- All weather installation
- Immediate proof testing and loading
- Reach competent soil below active zone
- Low to no vibration/noise



Load test conducted on a RS875.203 Pipe Pile



RS3500 Pipe Extension installation



SS200/RS3500 Combination Pile



New Construction Plates installed to allow for pile and footing connection



MASON GRADY FOUNDATIONS LLC
GA (229)872-3991 FL (850)688-2005
CHANCE CERTIFICATION # 1912-009-3630



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