

SITE PREPARATION

REMEDIAL REPAIR

HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

HELICAL UNDERPINNING

EARTH RETENTION

RETAINING WALLS

HELICAL TIEBACK

SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR



CERTIFIED INSTALLER
MASON GRADY FOUNDATIONS

CHANCE DISTRIBUTOR
FOUNDATION TECHNOLOGIES,
INC.

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

PROJECT

Seascape Condominiums located in Miramar Beach, FL had a unit that was experiencing differential settlement of its interior floor slab. A *Technidia* Zip Level Pro was used to take elevation readings of the interior floor slab. These readings showed a low spot in the center of the unit, with a variance of approximately 3-1/2 inches over an approximate 300 square foot area of the floor slab. A geotechnical investigation found a layer of loose sand and organic debris below the floor slab.

SOLUTION

The CHANCE Slab Lifting System was used to lift and level the floor slab, and prevent further settlement. This system is installed through 8 inch diameter holes that are cored in the floor slab. A CHANCE Screw Pile is installed through the 8 inch core using hand held installation equipment. The screw pile is attached to the floor slab using a patented slab lifting bracket and the screw pile transfers the load of the slab into a deeper more stable soil layer. Once installed, the floor slab is gradually lifted back to original level position.

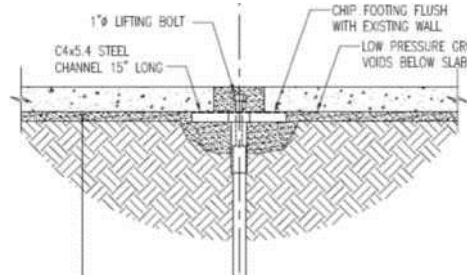
CASE HISTORY

THE WORK

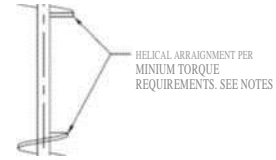
A total of 25 CHANCE Slab Piles were installed to a depth of 12-14 feet below the bottom of the slab through 8 inch diameter holes that were cored in the slab, on a 5 foot center to center spacing. A double 8" helix configuration was used. Working load per pile was 5,000 lbs. Once all piles were installed and brackets were attached to the slab, the area was lifted back to within 1/2" of original elevation. The *Technidia* Zip Level Pro was used to monitor slab movement during lifting operations. Once lifting was complete, the void below the slab was filled with flow-able fill. The work took approximately four (4) eight (8) hour work days to complete.



Mobile drive head installing pile



CHANCE HELICAL SHAFT
C150-0490, ALLOWABLE
CAPACITY 36,000 LBS



Complete slab pile system



Top view of slab lifting bracket



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CHANCE CERTIFICATION#1912-0009-3630

Mason Grady Foundations specializes in CHANCE Helical Pile Systems primarily for foundations and retaining walls. The company is a certified CHANCE installer, we are family owned and operated, and we are a member of the CHANCE Alliance Network.