CASESTUDY

JAN 2023

2 NEW CONSTRUCTION HELICAL PILES AS ALTERNATIVE TO CONCRETE CAISSONS

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CONSTRUCTION HELICAL PILES INSTALLED AS PART OF MEDICAL PLAZA REMEDIAL FOUNDATION STABILIZATION

PROJECT BACKGROUND

Just 5 miles from the beach a 20 year old medical plaza was showing signs of a compromised foundation. A multi-phase foundation stabilization project was designed with the hopes of stabilizing the structure's foundation while having the least possible impact on day to day medical practice that made up the 23,000 sq/ft structure. A GC was hired to manage the project as well as a remodeling phase and a repair plan was designed.

PROJECT DESIGN PHASE

SoCal Structural took the lead on designing and engineering plans for the multi-phase project. The two new construction helical piles would make up phase 2 of the project wrapping up the shoring aspect, before moving on to the next phase that would address the main structure's foundation.
The new construction helical piles would be used in place of caissons to support two sets of staircases as well as a second story overhanging roof on each end of the structure.

INSTALLATION OVERVIEW

TOTAL HELICAL PIERS

2

HELICAL PRODUCT

TAF-288

PRODUCT MANUFACTURER

EARTH CONTACT PRODUCTS (ECP)

DALINGHAUS SOLUTION

The GC on the project helped our crew make quick work of phase 2 of the project by excavating both of the pier locations prior to our team's arrival. After setting up their installation equipment and hydraulics the crew began driving the helical piles down to competent, load-bearing strata. They found competent soils at depths of around 28 feet beneath the soils surface. After driving the piles to competent soils they were able to install the new construction caps that would allow the piles to be tied into a concrete cage and encased in concrete.

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