

CASESTUDY

MAY 2023

17 HELICAL PILES STABILIZE
1960'S HILLSIDE FARMHOUSE
OVERLOOKING LAGUNA BEACH



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NEVERSETTLE



HELICAL PILES & TIEBACKS SAVE RECENTLY PURCHASED HILLSIDE HOME THAT HAD SETTLED & MOVED Laterally

PROJECT BACKGROUND

An Orange County General Contractor called out our team after their team discovered massive slab cracks and signs of settling at a 1960's hillside home that they had just begun remodeling. Having worked with our team on several recent projects the GC, Mar Development, was familiar with what a settling foundation might look like. They asked for our inspection specialist, Mark, who is quite familiar with the soils in the Laguna Beach area.

PROJECT DESIGN PHASE

During his inspection Mark measured varying amounts of settlement along the side of the home closest to the slope and ocean. The most settlement he measured was 3.6 inches over a span of about 15 feet. After completing his evaluation Mark began designing a repair plan that would stabilize the home and ensure it doesn't move or settle for many years to come. His repair recommendation would consist of the installation of 17 helical piles along with 250 square feet of polyurethane to fill voids under the slab created during the lift.

DALINGHAUS SOLUTION

With limited access around the home the crew excavated pier locations, prepped footings, and began installing helical piles with hand equipment. The first pile found competent, load-bearing soils at almost 45 feet and it was pretty consistent for the remaining helical piles. After all of the piles were installed the crew cut and cap each pile and secured them to the home's footing via steel brackets. They were then able to lift the home and recover about 2.5 inches of the settlement.

INSTALLATION OVERVIEW

TOTAL HELICALS

17

HELICAL PRODUCT

TAF-288

PRODUCT MANUFACTURER

EARTH CONTACT PRODUCTS (ECP)



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