

CASESTUDY

JULY 2022



9 HELICAL PIERS USED TO STABILIZE & LIFT A SINKING PHOENIX HOME



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PHOENIX HOMEOWNER CALLS DALINGHAUS CONSTRUCTION TO SAVE FOUNDATION AFTER PREVIOUS COMPANY FAILED!

PROJECT BACKGROUND

Many Arizona homeowners are knowledgeable on the poor soils that many homes are built on, and this is especially true for a homeowner in Phoenix, AZ. This homeowner had previously had a foundation repair contractor out to address several inches of settling that was wreaking havoc on the interior of her home. Cracks were continuing to appear throughout her drywall and more cracks were showing up on the slab foundation. The contractor utilized polyurethane to attempt to lift and level the home, but it was not successful and the homeowner wanted a permanent solution that could be backed up with a lifetime warranty.

PROJECT DESIGN PHASE

At 1300 sq. ft. Brett Woodall spent about an hour and a half performing the initial foundation evaluation for the homeowner. During the inspection he measured 1.5 inches of settlement, with multiple visual signs of settling apparent throughout the home. The homeowner wanted to stabilize the structure from ever moving again in the future to prevent continued damage to the home, and she wasn't too concerned with lifting the home to recover the settling.

After completing his inspection and floor elevation measurements, Brett designed a repair plan consisting of 9 helical piles to address and stabilize the back half of the home, which was the only area experiencing settlement.

DALINGHAUS SOLUTION

Utilizing 9 of the TAF-288 helical piles from ECP our crew made quick work of the project. They started by excavating the soils at the pier locations before chipping the footings and driving the helical piles with a handheld hydraulic setup. They found competent, load-bearing soils after breaking through a hard pan layer known as caliche that can be as hard as concrete. This caliche layer of soil and rock can be found in most of Arizona, and makes for some fun to break through.

After the helical piles were installed the weight of the home was transferred to the piles to ensure this home never settles or sinks again in the future.

INSTALLATION OVERVIEW

TOTAL HELICAL PILES

9

HELICAL PILE PRODUCTS

**TAF-288
BY ECP**

