

# CASESTUDY

SEPT 2022



**HELICAL PILES SAVE HILLSIDE HOME IN DANA POINT WITH OVER 7" OF SETTLEMENT**

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# 1960S DAN POINT HILLSIDE HOME SETTLES 7 INCHES WITH SIGNS OF LATERAL MOVEMENT TOWARDS SLOPE

## PROJECT BACKGROUND

A Dana Point homeowner called the Dalinghaus Construction team after his family was sick and tired of their 10 sliding back door being stuck open by about 2 inches. They were seeing cracks throughout the interior and exterior of their home as well as floors that you could feel were sloping with your feet. After calling our office the homeowner scheduled a foundation evaluation with one of our Project Design Specialists to see just how bad their home's foundation actually was.

## PROJECT DESIGN PHASE

Our Project Design Specialist performed the initial foundation evaluation on this property and worked with **Helfrich Engineering** to design a repair plan that would address the 7 inches settling taking place on the back half of the home located nearest the slope. The 12' sliding door would need special attention to ensure the load was properly spread across the footing making the glass door operational once again.

## DALINGHAUS SOLUTION

The repair plan would consist of the installation of 21 vertical helical piles around the back half of the home to stabilize the home from future settling while attempting to lift and recover the 7". Isaac, Ethan, Dillon, Ben, and Jez made quick work of the project, finding competent load-bearing soils at depths between 32 and 36 feet. Once the helical piles were installed the crew was able to hydraulically transfer the load of the home to these piles and recover 6 of the 7 inches of settlement. After the lift was completed the crew moved to installing 2 helical tiebacks to properly address the lateral movement seen closest to the home.

## INSTALLATION OVERVIEW

TOTAL HELICAL PIERS

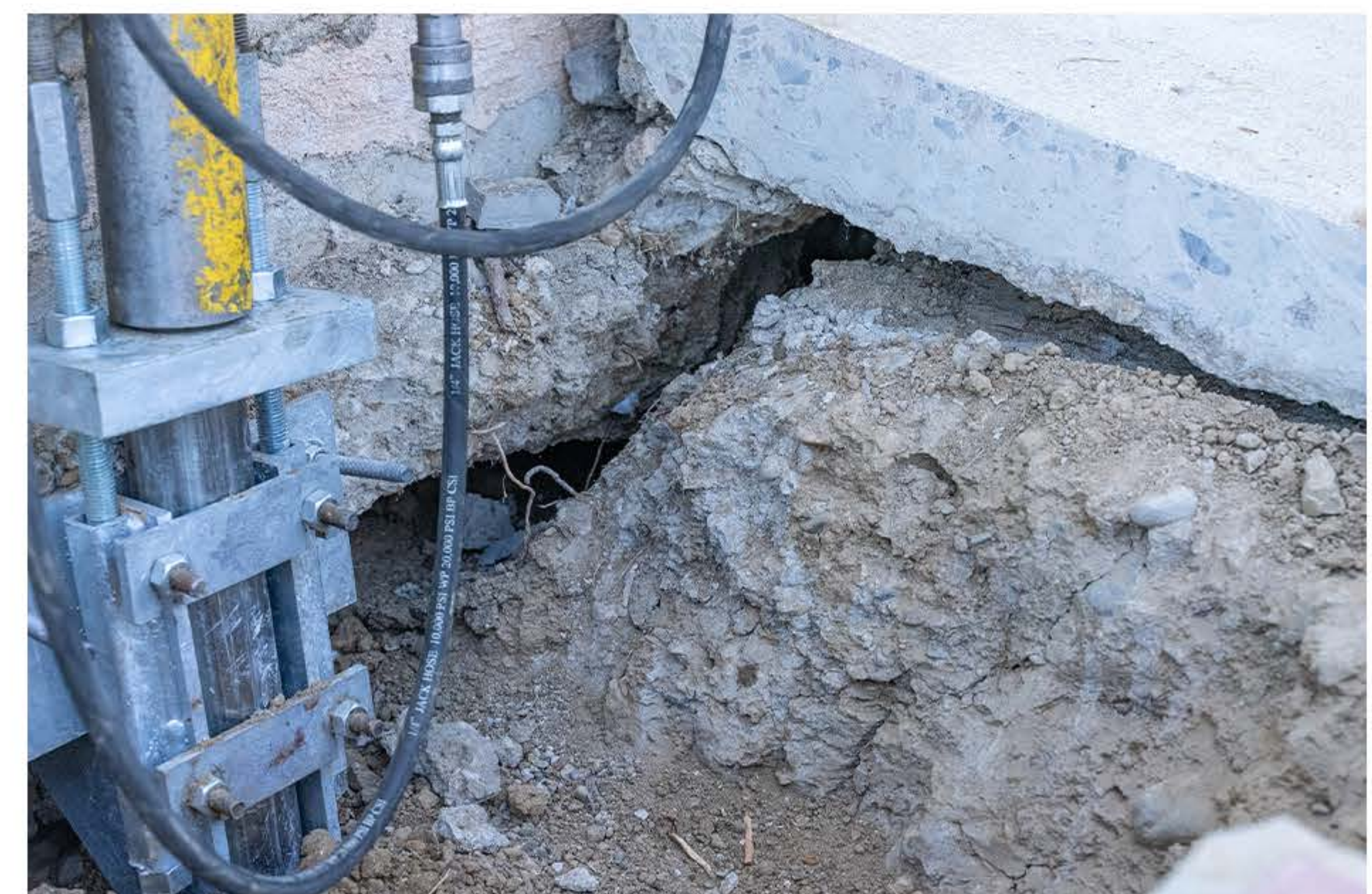
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HELICAL PRODUCT

TAF-288

PRODUCT MANUFACTURER

EARTH CONTACT PRODUCTS  
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