

63

HELICAL
PILES
INSTALLED



A PERMANENT SOLUTION FOR ALASKAN
EARTHQUAKE
FOUNDATION DAMAGE

RESIDENTIAL

RAM JACK WEST

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OREGON | WASHINGTON | ALASKA



RAM JACK REMEDIES ALASKAN EARTHQUAKE DAMAGE

ANCHORAGE, ALASKA

PROBLEM

When a magnitude 7.1 earthquake wrecked havoc on the foundations in their community in November 2018, Anchorage homeowners the McCann's saw immediate foundation damage. Like many in their community, the earthquake had caused the soil beneath their home to liquefy and their foundations to settle several inches almost instantly. After seeing the recent seismic testing which was performed at the University of California San Diego using Ram Jack's helical piles, the McCann family knew exactly who to call, Ram Jack West. Ram Jack's steel piles extend through liquefiable soils with the strength to support structural loads but are slender enough to act as a damping system. By the piles acting as a damping system, the full force of the earthquake is not transferred to the structure.

PROPOSED SOLUTION

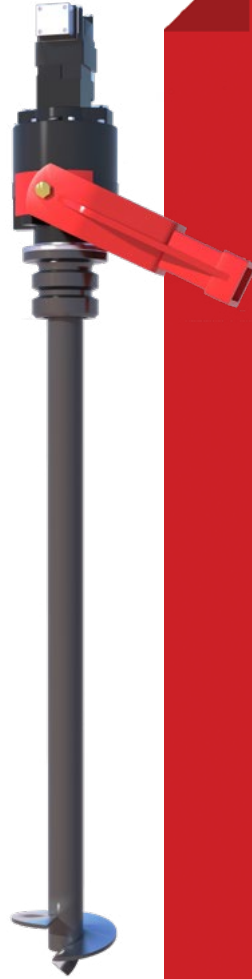
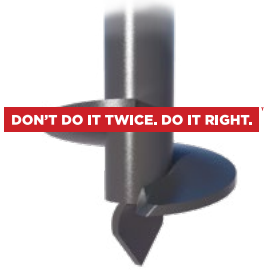
After a thorough examination of the project, Ram Jack West proposed a solution of 63 piles as well as poly foam injection. 50 of the piles were needed in the large crawlspace area, 11 on the exterior of the garage's foundation, and two piles were to support the entry's



overhang support columns. Polyfoam was to be injected beneath the footings, as well as leveling and void-filling the floor slab of the three-car garage.

OUTCOME

The project went as planned, recovering 3 inches of settlement and reaching maximum practical recovery. The McCann's were left with peace of mind and said that "Ram Jack West's crew did a phenomenal job start to finish, keeping us updated as each phase of the project took place. Very happy they were able to get us in before the ground froze." They know they don't have to worry about another earthquake wrecking their home.



INSTALLATION OVERVIEW

RESIDENTIAL INSTALLATION
RAM JACK WEST

PRODUCTS USED
2 7/8" HELICAL PILES

PRODUCT TYPE
REMEDIAL HELICAL PILES

TYPICAL APPLICATIONS
Ram Jack's 2 7/8" external connection helical piles are typically used in compression and tension applications.

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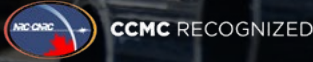
ISO 9001:2015
CERTIFIED

ICC
ES
ICC-ES Recognized

 CCMC Recognized



Custom Engineered Solutions Rooted in Quality.



At Ram Jack®, we are focused on providing custom-engineered solutions that meet the unique needs of our commercial clients. You can move forward with confidence knowing we maintain code compliance, providing piles and brackets that reach the highest rating among competitors' products recognized by ESR-1854. Our company has the most products recognized by the ICC and boast an ISO 9001:2015 certified manufacturing facility.

We have the facility to design and fabricate custom products—we are the one-stop solution for engineers and even offer our own in-house engineers for assistance with your project. If you need assistance with foundation designs, we also provide engineer tools and resources and our engineers can work with the project's EOR to develop a custom-designed solution.



Everything an Engineer Needs

The Ram Jack Technical Manual provides engineers with the information that you will need to understand, design, and specify Ram Jack's helical and driven piles. It also provides information verifying compliance with current building codes and ICC-approved acceptance criteria.

Everything an engineer could ever want and need to know about Ram Jack Helicals and Driven Piles in one book. If you or your firm would be interested in a Ram Jack Technical Manual, please contact your local Ram Jack dealer by emailing info@ramjack.com.



**DON'T DO IT TWICE.
DO IT RIGHT.**

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