

# CASE STUDY



**RAM JACK**

**Small Town Settlement  
No Match for Ram  
Jack Helical Piles**

**TOWN HALL  
RANLO, N.C.**

## **INSTALLATION OVERVIEW**

**Get more info on the ins-and-outs of Ram Jack products used.**

## **ENGINEER RESOURCES**

**Find the back page of this case study for more information on engineer resources.**

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**RAM JACK  
HELICAL PILES  
INSTALLED!**

## **RAM JACK CHARLOTTE**

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Huntersville, North Carolina



## Small Town Settlement No Match for Ram Jack Helical Piles

Ranlo, North Carolina

Dan Kelly of Ram Jack Charlotte was called to the small town of Ranlo, North Carolina to discuss a pressing issue facing the town's police, fire, and city council chamber. The area had fallen victim to water damage caused by the large amount of rainfall seen by North Carolina. The client observed that the building's rear CMU wall had begun to separate from the interior walls.

### PROBLEM

Following Ram Jack's initial visit to the site, North Carolina experienced its second hurricane. Regrettably, the force of this hurricane blew right through the building, causing the rear wall to settle and pull away with increased momentum. This also caused flood damage to some of the offices along the building's rear corner.

### PROPOSED SOLUTION

Owing to the building's vast length, Ram Jack requested the town permit them to hire an engineer to assist with design recommendations. Ram Jack Engineering required the external expertise of Mark Hoidas of Hoidas Engineering PLLC to be able to get the project done. Prior to the engineer's visit, the team took measurements of the building and shot existing elevations. They also took the time to compile a list of materials to expedite the engineer's repair plan. The engineer arrived on site several days later, and Ram Jack escorted him on a full building walk-through while photographing all affected areas. By gathering all the required measurements and compiling a

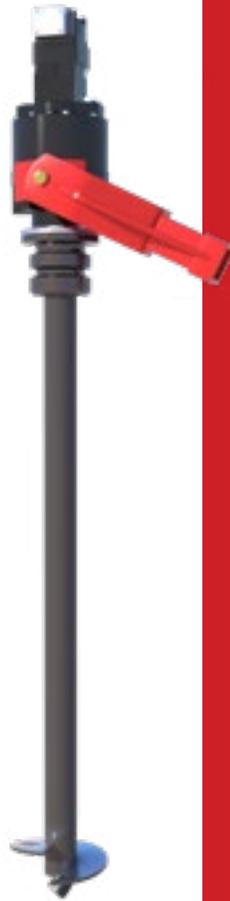
list of materials beforehand, Ram Jack could help the engineer to effectively design the pile size and determine the loads required to stabilize the building. Upon design approval, the team could immediately generate a Cost of Services proposal and personally present it to the town's Chief of Police and dual-operating Town Manager. He swiftly gave the green light.

### OUTCOME

Seeing as the project site was a government building, Ranlo offered their assistance by calling the Public Works Department to perform excavation work prior to pile installation. The teams could work in unison, with Public Works excavating while Ram Jack installed one section at a time. Ram Jack went on to complete the excavation below the footing line and undermine before installation. Overall, the project went smoothly thanks to the combined efforts of Ram Jack and the Town of Ranlo. It took under a month to carry the project to completion, after which Ram Jack handed the site back to Ranlo for backfilling and waterproofing.

**Contact your local Ram Jack to speak with a project manager or in-house engineer today!**

**DON'T DO IT TWICE. DO IT RIGHT.™**



## INSTALLATION OVERVIEW

**Commerical Installation**  
Ram Jack Charlotte

**Products Used**  
2 7/8" Helical Piles

**Product Type**  
Remedial - Helical

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

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CERTIFIED



ICC-ES RECOGNIZED

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](mailto:info@ramjack.com).

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