



**RAMJACK®**

**CASE STUDIES**



24

**MERIDIAN IHOP SAVED FROM**

# **SINKHOLE**

**WITH RAM JACK HELICAL PILES**

## **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.

**60**

HELICAL  
PILES  
INSTALLED

**COMMERCIAL**

**RAM JACK MISSISSIPPI**

[www.ramjackms.com](http://www.ramjackms.com) | 601-707-3012

Madison, Mississippi



PHOTO COURTESY  
PAULA MERRIT, THE MERIDIAN STAR

## Meridian IHOP Saved from Sinkhole with Ram Jack Helical Piles

### Meridian, Mississippi

In the city of Meridian, an IHOP was located off I-20. Adjacent to IHOP was a parking lot concealing a culvert. Unfortunately, this culvert had collapsed beneath the parking lot, resulting in the formation of a large sinkhole. The sinkhole was approximately 24 ft. from the side of the IHOP.

#### PROBLEM

Malouf Construction was commissioned to replace the collapsed culvert. However, the construction firm, along with the geotechnical and materials engineering firm Burns Cooley Dennis, Inc., were concerned that the soil next to the IHOP would collapse during the installation, risking the IHOP collapsing into the sinkhole. Ram Jack Mississippi was contacted for reinforcement in this endeavor.

#### PROPOSED SOLUTION

To counteract their concerns, Malouf Construction devised a plan to install a sheet pile wall along the side of the IHOP to prevent the soil or IHOP from collapsing. In order to achieve this, Malouf would require a system capable of reinforcing the sheet pile wall. Fortified Engineering, in unison with Malouf and Burns Cooley Dennis, Inc., worked together to design a tieback to be installed through the sheet pile wall. Multiple 5 1/2 in. diameter tiebacks would allow the sheet pile wall to retain the soil and keep the IHOP from

collapsing. Because of the severity of the problem, Ram Jack Mississippi leaned on the expertise of Ram Jack South Carolina to assist with the project.

#### OUTCOME

During the installation of the first 14 helical piles, everything went smoothly as expected. The piles were installed in an open area, allowing full access to machinery. However, the remaining piles were located in a tighter space that failed to provide ease of access to machinery. So, Ram Jack Mississippi contacted corporate for advice. After some brainstorming, the team approached Malouf with the idea of building mobile decks in the sinkhole that could hold all machinery. This way, Ram Jack could install the remaining piles. Malouf agreed, the decks were built, and the remainder of the project unfolded according to plan. While the process took longer than anticipated, Ram Jack succeeded in the mission to prevent the collapse of the soil and IHOP.

**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 Mississippi

**Products Used**  
5 1/2" Helical Piles

**Product Type**  
Remedial - Helical

**Typical Applications**  
Ram Jack's 5 1/2" external connection helical piles are typically used in compression and tension applications.

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# Custom Engineered Solutions Rooted in Quality.



CCMC RECOGNIZED

ISO  
9001:2015  
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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DO IT RIGHT.**

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