



RAM JACK[®]

2014 CASE STUDY

Type: Commercial | Issue: MS201401



INNOVATIVE ENGINEERED FOUNDATION SOLUTIONS

Helical Piles Allow Concrete Foundations to be Loaded Immediately After Installation, Reducing Operational Downtime

RAM JACK LOCATION:

Ram Jack Mississippi

www.ramjackms.com | 601-707-3012

Ridgeland, MS

WAYNE FARMS LLC | NEW CONSTRUCTION SYSTEM

Laurel, Mississippi

CASE STUDY 2014

Wayne Farms, LLC is one of the largest vertically integrated poultry producers in the United States. The foundation of the waste drainage room at their Laurel, Mississippi facility had settled significantly which was causing operation issues.

PROBLEM

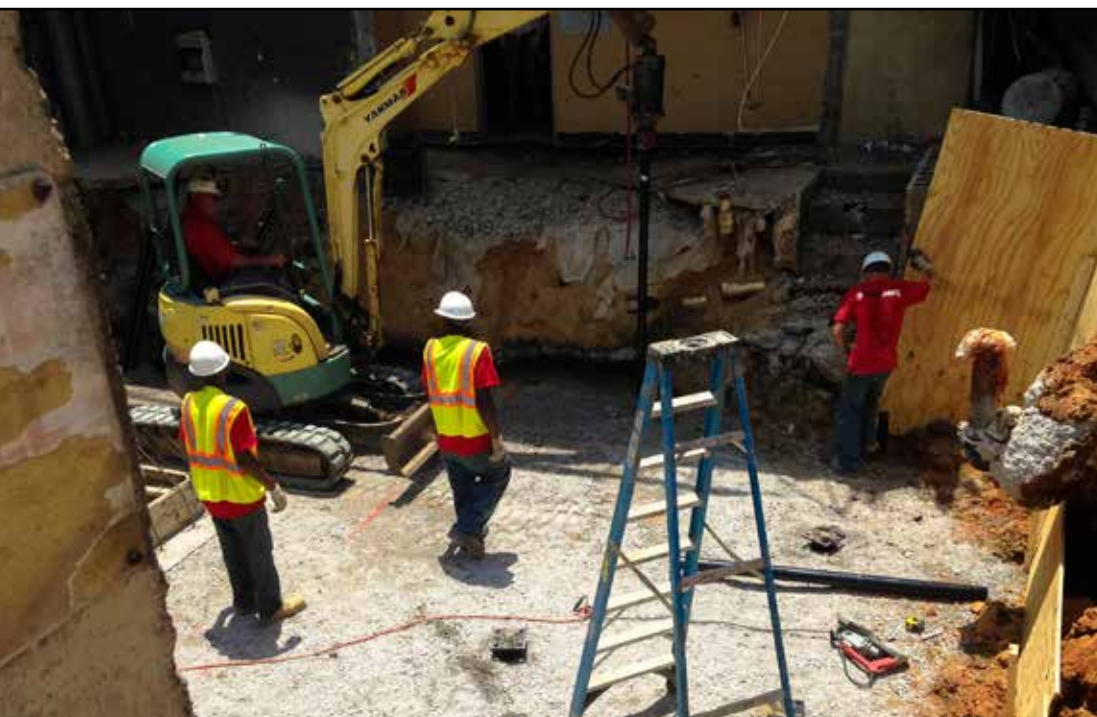
The foundation of the waste drainage room at Wayne Farms had settled over 5 ft. and was beyond repair; replacement of the foundation was required. Since the waste drainage room is a key component to the operations of the plant, Wayne Farms needed the foundation to be replaced quickly to get the plant operational again as soon as possible. Needing some assurance that the new foundation would not settle like the old one, Ram Jack Mississippi was contacted to provide a solution.



PROPOSED SOLUTION

Ram Jack engineering designed an underpinning solution to support the new loads and foundation. The proposed solution to support the new foundation included the installation of twenty-five (25) 2 7/8

in. diameter new construction helical piles with a twin 10/12 in. helical plate configuration. Wayne Farms needed the installation crews to mobilize and install the helical piles within a 24-hour window in order to keep the project on track. Additionally, the mini-excavator used to install the piles would need to be lowered into the work area by a crane since the job site was located six ft. deep into the foundation in the middle of two buildings, each 20 ft. tall.





OUTCOME

Ram Jack Mississippi, with the help of Alabama Ram Jack, installed the helical piles to an average depth of 23 ft. All piles were installed within a 10-hour time frame. Since helical piles can be loaded immediately after installation, this allowed the concrete foundation to be placed ahead of schedule and saved Wayne Farms time and money by reducing their operational downtime.



- Engineered Foundation Solutions
- Products Manufactured in the USA
- 50+ Locations Nationwide



Recognized as Code Compliant to Meet International Building Codes



HELICAL PILE DESIGN SOFTWARE: FOUNDATION SOLUTIONS™

Create Profiles

- Simulate soil profiles, including peat
- Anchors with varying diameter and helix configurations
- Vertical/battered/tie-back pile design
- Custom pile design

Mobile-friendly

- Web-based software
- Use anywhere, anytime
- Tablet and PC-friendly

Share & Report

- PDF output for submittals
- Share projects with other registered users

RAMJACK FOUNDATION SOLUTIONS™

Helical Pile/Anchor

Estimated Pile Capacity:

Compression Results

Allowable Frictional Resistance:	9.08 kip
Allowable End Bearing Capacity:	25.92 kip
Allowable Pile Capacity:	35.0 kip
Appr. Pile Embedment Depth:	42 ft
Required Min. Installation Torque:	7800 ft-lbs

NOTE: The reported "Appr. Pile Embedment Depth" value to realize the required capacity is based on the assumed soil conditions. The required torque is based on the assumed soil conditions and may vary based on actual soil conditions. Approved otherwise by a licensed professional engineer.

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