



RAM JACK[®]

2013 CASE STUDY

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RAM JACK STABILIZES BUSIEST CARGO AIRPORT IN U.S.

28 Piles Installed in 16 Hours
Stabilize Large Concrete
Columns

RAM JACK LOCATION:

Ram Jack Tennessee

www.ramjacktn.com | 731-686-0370

Milan, TN

MEMPHIS, TN INTERNATIONAL AIRPORT

Memphis, Tennessee

CASE STUDY 2013

In its early years, Memphis, TN International Airport was just on a 200-acre plot of farmland about seven miles from downtown Memphis. It had just three hangars and an unpaved runway that provided both passenger and air mail service.

Today, Memphis TN, International Airport is home to the FedEx Express global hub, which processes many of the company's packages. Memphis, TN International Airport is the busiest cargo airport in the United States, with nonstop FedEx destinations from Memphis to cities across the continental U.S., Europe, Middle East, Asia and South America. Even though the airport plays a vital role in the air mail delivery industry, it also is responsible for millions of passenger flights a year, making it a centerpiece in both passenger and in air mail delivery.



PROBLEM

On January 2013, Memphis, TN International Airport released a bid to Inman Construction for upper/inner structural upgrades to the front entrance of the airport. Inman Construction then contacted Ram Jack Tennessee for a bid pertaining to 28 pre-construction piles to support the new concrete columns Inman Construction planned on installing. Ram Jack Tennessee put together a bid and was awarded the job in March 2013.

PROPOSED SOLUTION

Ram Jack Tennessee worked with Darin Willis, P.E. to design the piles per loads provided by A2H Engineers in Memphis, Tennessee. 2 7/8" double helical plates were installed with 7,800 foot-lbs of torque with 8"x8"x3/4" new construction brackets to support the required loads.

"Another flawless job performed by Ram Jack"

- ARH Engineer Inspector



OUTCOME

The piles were installed in 4 phases. All the piles had to be installed between the hours of 11:00 p.m. to 7:00 a.m. Ram Jack Tennessee installed 6 to 8 piles per phase. The embedment depth of the piles ranged from 30'-40' below grade. The piles were installed within 16 hours and everything went as planned. The inspector for A2H Engineers made the comment: "Another flawless job performed by Ram Jack."

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