



RAM JACK[®]

2014 CASE STUDY

Type: Residential | Issue: TN201401

RAM JACK CUSTOM SOLUTIONS

Piles, Tieback, and
Carbon Fiber Kit Provide
Maximum Practical
Structural Recovery

RAM JACK LOCATION:

Ram Jack Eastern Tennessee

www.ramjackgt.com | 866-735-3085

Knoxville, TN

RESIDENTIAL FOUNDATION SETTLEMENT

RAM JACK EASTERN TENNESSEE

KNOXVILLE, TN
866-735-3085
www.ramjackgt.com



RAM JACK

www.ramjack.com/CaseStudies



Foundation settlement can lead to a wide array of problems for any home. Whether it's sagging walls with cracked bricks or a sinking driveway with an uneven slope, the damage can be severe and overwhelming. The fact is that when a foundation settles, it doesn't discriminate, wreaking havoc on whatever it supports.

Situation

The owners of a home in Cleveland, Tennessee, contacted Ram Jack Eastern Tennessee after noticing some irregularities in the walls and driveway around their garage. A Ram Jack professional performed an inspection and found cracks in both the exterior brick wall of the home outside the garage as well as in the cinder blocks inside the structure. The concrete driveway was severely cracked with uneven areas and irregularities in the grading. Gradual foundation settlement appeared to be to blame for the subsequent issues with the residence.

Proposed Solution

In order to stabilize the structure, Ram Jack proposed the installation of six driven piles, one helical tieback, and the use of a carbon fiber kit to provide maximum practical recovery to the structure. The six driven piles were to be installed in the interior of the garage, with the helical tieback and carbon fiber kit used on the exterior wall.

Outcome

The repair crew successfully installed the six helical piles inside the garage to an average depth of 42 ft. They also installed the helical tieback to a depth of 10 ft. With the piles installed and work

complete, the structure was completely stabilized and its integrity restored. Additionally, the unsightly cracks were minimized, improving the appearance of the home.

