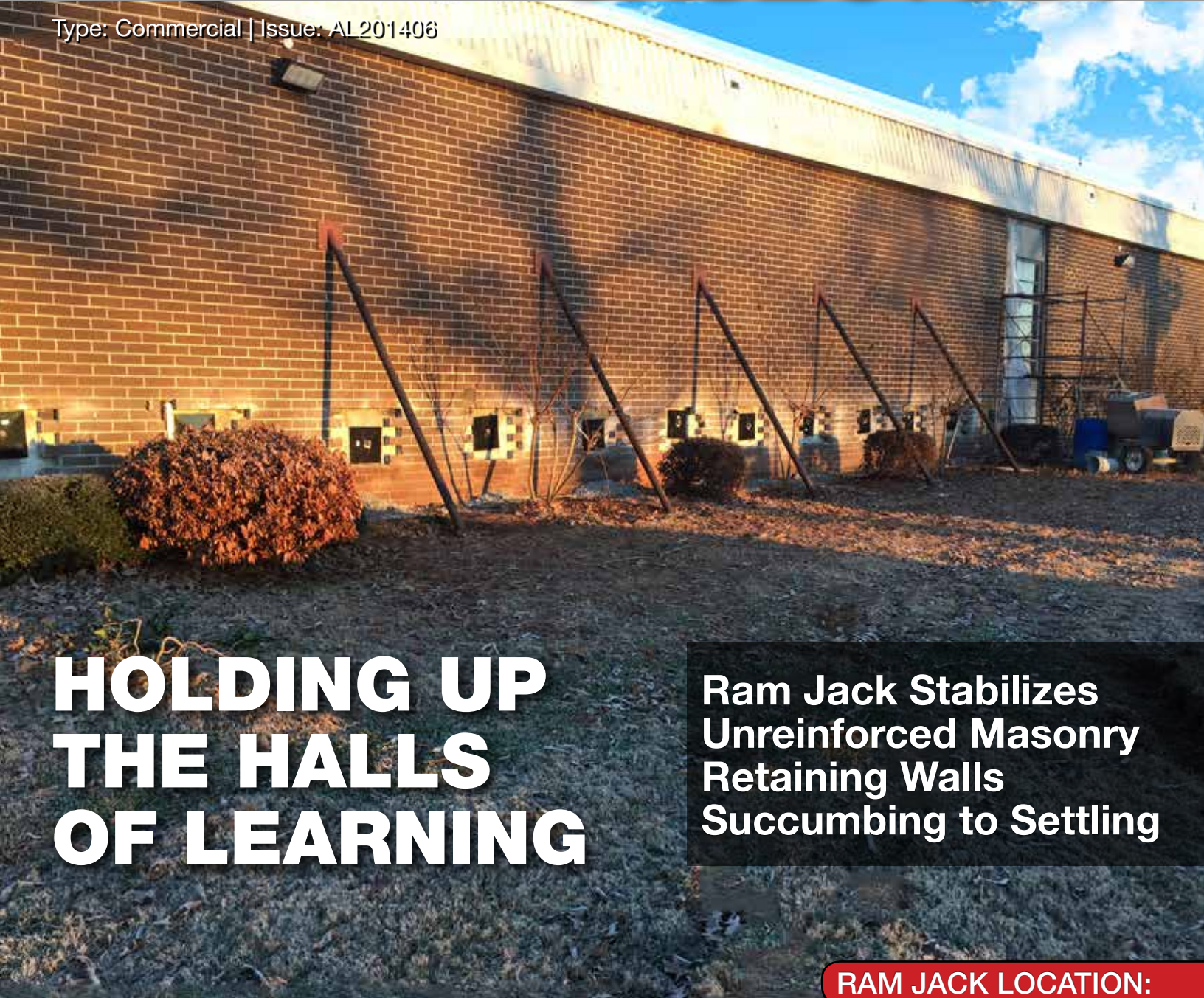




RAM JACK[®]

2014 CASE STUDY

Type: Commercial | Issue: AL201406



HOLDING UP THE HALLS OF LEARNING

Ram Jack Stabilizes
Unreinforced Masonry
Retaining Walls
Succumbing to Settling

RAM JACK LOCATION:

Alabama Ram Jack

www.alramjack.com | 877-875-2171

Bessemer, AL

EARNEST PRUETT TECHNICAL SCHOOL

Hollywood, Alabama

CASE STUDY 2014

The Earnest Pruett Technical School provides advanced training for students wishing to study everything from carpentry and welding to machine-work and collision repair. Located on a lovely, 40-acre campus in Hollywood, Alabama, the educational facility provides trade-based education to high schoolers interested in both job-entry and college-preparation. A part of the high school program in Scottsboro and Jackson County, the old brick building is more than just a structure—it is a learning center and a creator of opportunities for youth in the area.

PROBLEM

While the school was busy providing an amazing education to its students, the structure was undergoing some foundation damage. The brick veneer and masonry walls of the building were settling, causing cracks to appear. In addition, the walls had begun to separate from the concrete slab foundation. After a professional structural engineer evaluated the facility, it was determined that the unreinforced masonry retaining walls did not have sufficient strength to resist the pressure of the settling exterior walls. Temporary steel braces were quickly installed until a permanent solution could be implemented.

PROPOSED SOLUTION

Alabama Ram Rack proposed the use of steel helical tie-back anchors to permanently stabilize the leaning exterior walls. These would not only close the gap between the walls and the foundation, but they would also ensure the structural integrity of the structure for years to come.

OUTCOME

Alabama Ram Rack installed tie-back anchors in only two days using small, portable equipment. The anchors were grouted and allowed to cure for one week before Ram Jack tie-back plates were applied. New bricks were installed over the low-profile, tie-back brackets to conceal the structural repair. In the end, thirteen (13) 2 3/8 in. helical piles with threaded connections were installed to an average depth of 12 ft., providing the support the structure needed to continue its education of bright young minds without having to worry about the integrity of the structure and the safety of the students.





Helical tie-back anchors with threaded connections permanently stabilize leaning exterior walls





- 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

www.ramjack.com/FoundationSolutions

888-332-9909



RAMJACK