



RAM JACK

2015 CASE STUDY

Type: Residential | Issue: AL201508

**Helical Tie-Backs
Stabilize Foundation
Racked After Street
Sweeper Impacts Home**

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RACKED FOUNDATION

ALABAMA RAM JACK

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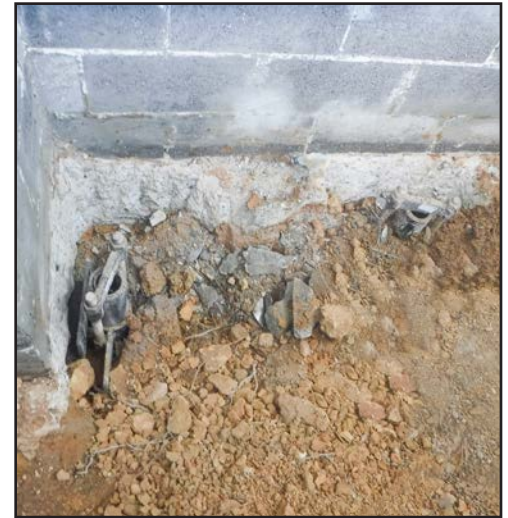
Having a street sweeper truck crash into your home sounds like a bad dream; however, for the owner of a residence in Birmingham, Alabama, it was reality.

Situation

The street sweeper penetrated an exterior wall, causing cracks to form in the brick as well as causing foundation damage. The foundation racked in the direction of the impact. The home was in need of extensive repair.

Proposed Solution

Alabama Ram Jack proposed excavating the area prior to installing steel helical tie-back anchors and helical piles to vertically stabilize the foundation. Carbon Kevlar strengthening straps would be used to remedy the inward bowing in the foundation.



Outcome

When finished, four interior helical tie-back anchors with helical tie-back wall brackets and nine exterior piles were installed. These strategically placed piles allowed stabilization of the structure while straightening the leaning foundation walls.

Proven Engineered Solutions.

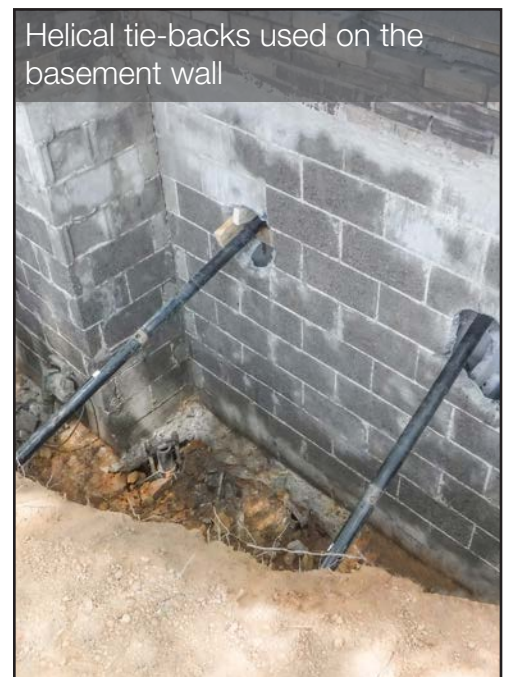


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Wall plates shown on the inside of the basement, attached to helical tie-backs



Helical tie-backs used on the basement wall