

A CASE HISTORY

Project:

Talbot School
Billerica, MA

Engineer:

Veitas & Veitas
Braintree, MA

Contractor:

Jager Construction
Amherst, NH

Job Description:

To install an elevator, it was necessary to excavate beside a 2-foot-wide interior stone foundation wall. This would undermine the wall which was carrying a load of over 4,000 pounds per lineal foot.

Repair:

To prevent the wall from collapsing, HELICAL PIER[®] Foundation Systems anchors were used to support the interior wall during and after construction of the elevator. Five anchors also were used on an adjacent exterior wall to prevent lateral movement from soil pressure pushing in on the wall after the existing concrete slab and soil were removed.

Each anchor was installed to a minimum of 2,500 ft.-lb. for a bearing capacity of 25,000 pounds. 8" x 8" angles were fixed on top of the foundation repair brackets above each anchor and set under the wall, with high-strength grout filling the voids. This was done on both sides of the wall.

During construction of the elevator, the wall was totally undermined and all its weight was supported by the HELICAL PIER Foundation Systems anchors.

