



## New Intermediate School



### Ground Improvement – Installing Vibratory Stone Columns

#### PROJECT OVERVIEW

A local district was attempting to build a new intermediate school on ground that wasn't stiff enough to support the building's structure. The soil was sandy, located near the banks of a large body of water. The district reached out to CNC Foundations for a soil stabilization solution. Beyond the existing geological issues, the school district was also very cautious of outside contractors. Our staff prioritized making a good first impression with a group of people whose previous out-of-town contractor experiences had made them suspicious.

#### OUR SOLUTION

We provided an aggregate pier/vibratory stone column (VSC) solution to stabilize the soil. Aggregate piers are stiff columns of stone that we compacted into the ground to reinforce soft soil. The columns are installed in groups to increase bearing capacity and limit settlement under the footing. Aggregate piers/VSCs are an efficient and cost-effective solution for poor soil conditions.

#### SOLUTION AND RESULTS

CNC Foundations installed over 11,000 linear feet of aggregate piers under the foundations to ensure proper building support. We completed the project in under two weeks, meeting the deadlines and allowing concrete contractors to begin pouring foundations. With help from CNC Foundations, the district was able to construct their new school with the confidence of CNC's ground improvement work.

### Project Details

#### SECTOR

Education

#### LOCATION

New England

#### SERVICE

Ground Improvement

#### SOLUTION(S)

Bearing Capacity /  
Settlement Control

#### APPLICATION(S)

Vibro Stone Columns (VSCs)

