



UNITED STATES

## Corning-Painted Post High School Corning, NY



### Owner

Corning-Painted Post Area School District

### Engineer

Hunt Engineering

### General contractor

Pooler Enterprises

### Dates of work

2012/07 2012/08

## Description

In 2010, voters in Corning, New York approved a \$97 million plan to modernize aging school buildings and increase efficiencies. A major part of the plan was the consolidation of two high schools into a single renovated facility. The new Corning-Painted Post High School was created by adding 83,000 sq ft to one of the two existing schools. At nearly 1,600 students, it is the largest and most modern high school in the area.

The addition was built in proximity to the existing structure. To deal with the space constraints, support the high surface loads, and minimize future settlements, Menard installed Controlled Modulus Column (CMC)<sup>™</sup> rigid inclusions.

## Main figures

Controlled Modulus Columns (CMC)<sup>™</sup>

1600 EA.

## Ground conditions

Soils were fairly consistent across the site. Borings showed between 2 and 10 ft of old fill material on top of 5 to 10 ft of loose, silty sands. The bearing layer was a dense stratum of sand at an average depth of approximately 15 to 17 ft below ground level.

## Solution

CMC Rigid Inclusions were chosen over a removal-and-replace option because they were more cost-effective, mitigated settlement concerns, did not use vibration, and could be installed to meet a tight schedule.

The Menard Group USA solution consisted of the design and installation of approximately 1,600 CMC rigid inclusions to strengthen underlying soils and keep total and differential settlement within project tolerances. In order to further expedite the installation, Menard used a second drill rig to shorten the schedule by 18 working days.

In summary, Menard installed CMC Rigid Inclusions to support the heavy loads of a high school addition.