



# SUBSURFACE CONSTRUCTORS, INC.

*A Geotechnical Engineering and Construction Company*

## Vibro Stone Columns



Stratacaster Rig Installing Stone Columns

### PROJECT DESCRIPTION

Subsurface was given the task of bringing weak clays and silts of strengths of 1,500 psf to a post-bearing pressure of 5,000 psf. Performance specifications called for less than one inch of settlement and less than one-half inch differential settlement. Subsurface Constructors, Inc. designed a system of 800 vibro stone columns installed with their stratacaster vibro rig. The 800 stone columns were installed in 20 days. Load testing of several production columns was performed in order to verify design column stiffness.

### PROJECT TEAM

Owner:	Hazelwood School District	Geotechnical Engineer:	Midwest Engineering Services, Inc.
Architect:	TRI Architects	Concrete Contractor:	Demien
Structural : Engineer	KPFF	Ground Improvement Designer/Contractor:	Subsurface Constructors, Inc.
Construction: Manager	SM WILSON		