



SUBSURFACE CONSTRUCTORS, INC.

Full Service Geotechnical Contractors and Ground Improvement Specialists

Ground Improvement



Stabilized Nitrogen Technology Granular Production Center – St. Louis, MO

PROJECT DESCRIPTION

This project involved the expansion of a Stabilized Nitrogen Technology Production Center for Lange-Stegman Corporation. Soils at the site consisted of uncontrolled fills on top of river sands and silts. Initially the project called for approximately 1,000 driven H-pile, which was priced at approximately \$5 million.

These foundation costs were detrimental to the project budget, causing the owner to consider reducing the size of the project. Subsurface Constructors analyzed the soil and determined that a ground improvement program consisting of vibro stone column could support the loads of the new production center. Subsurface was able to perform this work for roughly \$600,000 not only saving the owner \$4.4 million, but allowing them to build the larger facility as well as save time on the project schedule.

This project won Subsurface Constructors a 2007 Keystone Construction Excellence Award for Specialty Contractor project under \$2 million.

PROJECT TEAM

Owner:	Lange-Stegman	Geotechnical Engineer:	Shively Geotechnical
Structural Engineer:	Marcus Construction Co.	General Contractor:	Lange-Stegman
Ground Improvement Design/Builder:	Subsurface Constructors, Inc.		