Subsurface Constructors

Ground Improvement

IKEA St. Louis



When IKEA elected to open a store in St. Louis, Missouri, they selected a site in the heart of the city, but it required significant ground improvement. Subsurface Constructors installed 5,992 vibro stone columns to improve the existing soil and delivered a maximum bearing pressure of between 1,500 – 4,000 pounds per square foot. The site consisted of lean clay and sandy clay overlain by miscellaneous fill.

Project details:

Owner: IKEA
Geotechnical Engineer: SCI Engineering
General Contractor: SM Wilson
Structural Engineer: KJWW
Services Provided: Ground improvement, stone columns
Year: 2014
Location: St. Louis, Missouri