

Subsurface Constructors

Ground Improvement

Post Acute Medical



Ground improvement with vibro stone columns in coastal Texas

Subsurface Constructors recently completed two [ground improvement](#) projects in Texas, a first for the ground improvement and deep foundation contractor. This project involved the design and installation of [vibro stone columns](#) for a rehabilitation hospital in downtown Corpus Christi, about two blocks from the waterfront.

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The design consisted of 265 stone columns installed to an average depth of 15 feet to treat the interbedded layers of soft clay, loose sand and loose silt. A dry bottom feed installation technique was used to install the stone columns. The columns were designed to provide a uniform bearing pressure of 5,000 pounds per square foot (psf) under the structural pad and continuous footings.

Project details:

Owner: Post Acute Medical

Geotechnical Engineer: Rock Engineering & Testing Laboratory, Inc.

General Contractor: Satterfield & Pontikes Construction

Services Provided: Ground improvement, stone columns

Location: Corpus Christi, Texas