



Case Study: Soil Stabilizer Project Chicago, IL

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DESCRIPTION OF PROJECT

Stabilize the soils underneath a footing for a condo unit in downtown Chicago, IL.

THE PROBLEM:

A Chicago suburb real estate group had purchased a condo building in downtown Chicago and wanted to rehab the structure. The rehab entailed structural repairs and the addition of another story to the building. The project needed to be completed in a quick period of time and a permit to install helical piers in Chicago can take many months to process. The real estate group needed a way to provide the load bearing requirements without the need of a deep foundation system.



FINDINGS:

The company contacted RaiseRite to check if there was a way to solidify the weak soils without a deep foundation system and RaiseRite proposed a soil stabilizer being injected through pipe installed at a 5' spacing around the perimeter of the structure at depths ranging from 5'-10'. RaiseRite sent out an expert in that field to diagnose the problem and estimate the cost for soil stabilization. RaiseRite found that the problem could be fixed using HMI 600 soil stabilizer to provide the load bearing capacity that would fit both the needs of the client and the exclusion of a deep foundation system and the lengthy permit process for that application.



SUCCESS:

RaiseRite successfully installed pipe around the perimeter of the foundation and injected approximately 5-10 gallons of HMI soil stabilizer per pipe point until the ground around the pipe was saturated with material and the soils did not accept any further material. The pipe was removed and the soils now had the sufficient load bearing capacity that the structure needed for support.



COMPANY HISTORY

RaiseRite Concrete Lifting, Inc. began in August of 1974 and quickly gained statewide recognition as a progressive company serving the entire eastern side of Wisconsin. RaiseRite is one of the first companies to cover many territories from one central location. This gave our customers the opportunity to work with a contractor who specialized in slab raising also known as mudjacking, and high density polyurethane. RaiseRite immediately saw the need to upgrade the antiquated slab raising pumps that were available at the time and in 1979 designed the first totally hydraulic slab raising pump. Shortly after the pump was designed, Hydraulic Mudpumps, Inc. was established to manufacture and distribute hydraulic pumps nationwide. Since then, HMI's product line has increased to five types of slab raising pumps, concrete pumps, hydraulic mixers and automated hopper/mixer trucks. Pump sales have increased to cover most of the United States and countries worldwide.

In 1994, RaiseRite Foundation Pier System, Inc. was founded to address the customer whose foundations have settled, providing RaiseRite companies another service to their customers. Since its beginning, RaiseRite is staffed with experienced professionals who are able to fulfill the needs of varied clientele. Since 1974, RaiseRite has proved its abilities to work with owners, engineers, and architects on designs for each individual project.