

PROJECT DESCRIPTION

Dockside Pump Station Excavation Shoring



Completing the Excavation in Very Soft Clay

A residential developer needed to construct a pump station for its project and hired Ferraro Pile & Shoring, Inc. (FPS) to construct shoring for the excavation. FPS engaged McMahon & Mann Consulting Engineers, P.C. (MMCE) to explore the subsurface conditions and design a support system for the excavation.

Subsurface explorations revealed a very soft clay deposit extending for most of the excavation depth of about 30 feet and ground water confined in the rock about 10 feet below the excavation base.

MMCE used a field vane to measure the strength of the soft clay in a test boring and used these data to design the sheet piles, wales and struts. FPS successfully constructed the excavation support system, as designed.