CONTE COMPANY LLC
GEOTECHNICAL CONTRACTORS

ECP®

2 For 1 Special

Drivecast's Simplicity Makes Jobs Easy

WESTPORT, CONNECTICUT
RESIDENTIAL PROJECT OF THE YEAR FINALIST

In an exclusive waterfront portion of Westport, CT, two neighboring property owners were building new homes. Both properties showed similar soil conditions in their respective borings. The bid documents specified helical, and test piles were performed. However, due to varying installation torques and depths, Conte Company proposed using Drivecast(TM) grouted displacement piles. This allowed them to design for a defined bond length in the soils and prevent a situation where they would be chasing torques in loose sands with helical piles, while utilizing the same equipment that limits vibration and noise to the neighboring houses.

The teams biggest hurdle was equipment access in an exclusive waterfront area. With narrow roads and light bridges, there were limited options for installation equipment. Additionally, the densely packed houses of the subdivision require more care with pile installation methods. Vibration and noise pollution from driven piles can create issues with adjacent properties. Helical piles are a great solution to this, but the sites soil conditions required deeper piles to achieve sufficient installation torque in the loose sands, whereas Drivecast(TM) grouted displacement piles were able to achieve sufficient capacity at shallower depths.

The use of Drivecast(TM) grouted displacement piles enabled a design pile length not dependent upon torque. This led to a predefined pile length for the project. With careful planning, they were able to install both houses relatively close in their schedule, enabling them to take the equipment and materials from one site to the next with ease.