

Telemetry Support Pole

Tradition, South Carolina (Hilton Head Area)



Installation of Drive Rite™ 36000 Series Helical Piles

This project is located within the Tradition, South Carolina development near Hilton Head, South Carolina. Pre-construction underpinning was required prior to the installation of a telemetry support tower. Maximum wind loads (tension and compression) to be exerted on each steel pier was 38,000 lbs working load (76 kip ultimate load) and the maximum dead load was 4.7 kips.

The structural engineer specified four helical steel piers to anchor the 8' x 8' x 2'-0" thick concrete foundation for the telemetry support tower. Piers were required to resist a 76 kip ultimate pullout capacity.

The boring log indicated the site soil profile consisted of sand and clayey sand strata of increasing density with depth. Standard penetration index varied from 10 to 13 blows/ft in the first 10 feet, from 17 to 25 blows/ft between 15 and 29 feet depth, from 38 to 39 blows/ft between 33 and 48 feet depth and increasing in density to 60 feet.

Drive Rite 36000 Series Piles (3-1/2" O.D. x .300 wall) were selected with a 10"-12"-14" helix configuration and were installed with a minimum effective torsional resistance of 8,500 foot/pounds. The installation depth was between 15 and 16 feet as expected.



Completed Installation of Drive Rite Piles

The helical piles were capped with Drive Rite #97658 Pile Caps (8" x 8" x 3/4") which were bolted to shafts with 2-3/4" bolts. All materials were hot-dipped galvanized, except cap plates which were embedded in concrete.

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Scope of Work:

*Installation of New Construction
Helical Piers to Resist Tension*

General Contractor:

*BRW Construction Group, LLC
Savannah, Georgia*

Foundation Contractor:

*Mount Valley Foundation Services
Columbia, South Carolina*