



CHPP-Composite Helical Pipe Pile 190 ft. Monopole Foundation

A 190 ft. Monopole was installed for a telecom project in Blufton, SC.

The ultimate load per pile was 130 KIP. The constraint was a high water table. Drilled shaft and driven piles were considered.

The Composite Helical Pipe Pile was selected as the best choice for the project by providing the best cost effective installation. A total of 12 helical piles were installed to a depth of 20 ft. with an ultimate installing torque of 25,000 ft-lbs. The piles were filled which provided additional strength.

Dewater wells were drilled to lower the water table to 10 ft. depth. Pumps were used continuously to dewater the site. This was necessary to install a 20 ft.x 20 ft.x 5 ft. deep concrete cap over the piles.



Lightweight and maneuverable equipment was used to install the helical piles

The 5 ft. deep excavated hole was dewatered to install the cap grillage and concrete.





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Building Solid Foundations

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