

New Construction Piles - Off-Grade



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Off-Grade Zero Emissions Building - Tallahassee, FL



Installation of Drive Rite™ 36000 Series Pile

Scope of Work:

New Construction Helical Piles

General Contractor:

K2Urban Corp

Foundation Contractor:

Alpha Foundation Specialists, Inc.

Alpha Foundation Specialists, Inc. was contacted by FSU to install helical anchors for an innovative structure on FSU's campus. This Structure called the OGZEB (Off Grade Zero Emissions Building) is a prototype structure that will make green housing affordable. This building uses solar panels to produce its energy.

Since the sun's energy is not consistent throughout the day, excess energy produced by the sun during daylight hours will need to be stored for non-daylight hours. This excess energy will be used to create hydrogen energy which will be stored until required by the house. The hydrogen will then be fed to an innovative fuel cell which will convert the energy into something usable by the house. The OGZEB will be a building that is completely environmentally

friendly, and will be used as a tool for developing new technologies.

The design engineers on this project requested AFS provide helical piles due to the fact they create no spoils during installation and are made almost entirely of recycled materials. The project called for installation of 8 Helical Piles. The piles had a schedule 80 shaft which was 3-1/2" in diameter. Each pile had an 8", 10", 12" helix configuration and was installed to 12,000 foot/pounds of torque, which provided piles with an approximate ultimate capacity of 100,000 pounds.

Each Helical Pile was attached to the building with a concrete column which allowed the building to be elevated several feet off of the ground and still provide sufficient lateral integrity. The piles were installed to depths ranging



Piles Placed Adjacent to Ground Loop System

from 21' to 35' and had to be installed in sensitive areas so as not to penetrate through a ground loop system installed up to 40' deep adjacent to the piles.

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