

Warehouse Expansion Underpinning

Villa Rica, GA



Installation of Drive Rite 25000 and 26000 Series Piles

ESOG was contacted by Grubb Engineering services to consult on the most cost effective way to underpin a warehouse expansion for RSC Distribution Service. The project was a fast-track job for RSC and general contractor Titleist Building Systems. Auger cast piles and grouted micropiles were considered and, after careful cost analysis, helical piles were selected due to their cost effectiveness and rapid installation.

The efficiency and cost effectiveness in which the Drive Rite helical products can be installed saved everyone a tremendous amount of time and money when compared to auger cast piles. ESOG installed 73 Drive Rite 25000 Series Piles to an ultimate load of 50

Kips and 37 Drive Rite 26000 Series Piles to an ultimate load of 70 kips. The project was completed within the allotted 5 days, which was critical since the project had been delayed due to permitting and other administrative issues.

The 25000 Series Piles were installed to a torque rating of 5,600 foot/pounds and averaged 23 feet in depth. The 26000 Series Piles were installed to a torque rating of 8,000 foot/pounds and averaged 18 feet in depth. ESOG utilized an empirical factor of 9:1 in order to achieve the specified ultimate load requirements.

When ESOG made their proposal, it was emphasized that the helical piles



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Scope of Work:

Underpinning a Warehouse Expansion

Design Engineer:

Grubb Engineering

General Contractor:

Titleist Building Systems

Foundation Contractor:

Engineered Solutions of Georgia



ESOG Installed a Total of 110 Piles

could be installed quickly and, once the helicals were installed, then the footings could be poured and construction could immediately move forward. This made the selection process very simple.

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