

Engineered Solutions of Georgia (ESOG) Installs (38) Helical Piles to Support a New Addition & Renovations to the R.B. Stall High School in North Charleston, SC

December, 2025



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Project Name & Location:	Additions & Renovations to R.B. Stall HS N. Charleston, SC
Project Date:	December 2026
Project Type:	Deep Foundations
Helical Pile Design & Installation:	Engineered Solutions of Georgia (ESOG) - https://esog-geo.com/
Owner:	Charleston County School District - https://www.ccsdschools.com/
General Contractor:	Monteith Construction Corp - https://www.monteithco.com/
Helical Piles Specifications:	Round Shaft 4.25" O.D. x .29 Wall with 12-14-16" helix plates plus extension with 16" helix plate; field conditions revealed the soils at 22'-24' provided a safety factor of nearly 3x the design load.
Soils & Embedment Depth:	Red, Gray & Brown Clayey Sand & Silty Clay
Helical Pile Manufacturer & Supplier:	IDEAL Group - E. Rochester, NY

Install Summary for Piles

- Pile: 4 1/2" OD x 0.29" Wall triple Helix 12-14-16 and flighted extension single helix by IDEAL
- 2 Load Test Required
- Pile Finish: Galvanized Steel
- Pier Bracket: New Construction 8"x8"x3/4".
- Required minimum installation torque: 10,700 ft-lbs Ultimate.
- Torque not to exceed: 26,500 ft-lbs.
- Minimum helical pier tip depth below ground surface is 35'-0",
- Piles may need to be installed beyond the specified minimum depth to achieve the required torque.
- Notify engineering if piers reach torque not to exceed limit or if they flat spin before reaching minimum depth.
- The property owner hired a special inspector to be present during pile installation. Inspector to follow special inspection schedule attached to this shop submittal and provide pile as-built certification letter when pile installation is complete.
- [Click here to see Cover Page](#)
- [Click here to see Submittal Helical Piles](#)
- [Click here to see Monteith-ESOG Asbuilt Letter with Logs](#)



Installing Test Pile & Four Reaction Piles



Set Up for A.M. Load Test



Several Piles Installed



Installed & Cut at Design Installation

