



# TAR HEEL PIERING SYSTEMS, LLC

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nextel: 150\*63991\*1

Project: Ryan Homes and Ayrley Development,  
Charlotte, NC. Support for Town Homes  
Contractor: Tar Heel Piering Systems  
Classification: Town Home (New Construction)  
Project Date: April 18th, 2008  
Piers Used: (55) 8-10 starters, Installed to 17' in average  
depths  
Total Installation Time: 2 1/2 Days

Located off of 485 on the southwest corner of Charlotte, NC., Ayrley Development is building a wonderful community with everything you may need. Ryan Homes is a large builder that is doing many town homes at a price point that has continued to sell in this economic down turn. The Development team contacted Tar Heel Piering in the Fall of 2007 with regards to bad soils that would need some sort of remediation before building a structure of any size. After meeting with the developer, builder, geotechnical engineers, and site workers, it was unanimous that helical piercing would be a great way to support the town home.

Tar Heel Piering Systems quickly responded by getting the working drawings to a structural engineer so they could design the helical pier layout and the grade beam. All of the preliminary work was now completed and it was time to do the install. Using Fasteels 8,000 ft. lb. 8-10 helical piers with a mixture of 5' and 7' extensions, 55 piers were installed to an average depth of 17'. The installation was done using a PC-40 Komatsu mini excavator with a pengo 6500 ft. lb. drive head. The scheduling had to be exact or time and money would have surly been lost. A job of this size can often be very time consuming, but with the knowledge, experience and coordination of Fasteel Inc, Tar Heel Piering Systems, and everyone involved it was completed in a relatively short time.

Helical Piering may not be the only solution to bad soils, but in many situations it can be one of the best alternatives to some other means of structural support. Tar heel Piering Systems was also able to keep the cost of the overall project lower than the original quote due to credits on unused material.

