

# New Construction Piles for Holding Tank



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## Alluriam Stone: Bessemer, Alabama



*New Construction Helical Piles before Slab Pour*

### Scope of Work:

*New Construction Piles for Industrial Storage Tank*

### General Contractor:

*Ray McLevy (Alluriam Stone)*

### Foundation Contractor:

*Alabama Foundation Specialists of Birmingham*

In 2005, Alabama Foundation Specialists of Birmingham was contacted by Ray McLevy of Alluriam Stone to help design and install helical piles for new construction slab and pad application for a large industrial holding tank.

The construction site was located behind the main plant building. Structurally supporting the holding tank were considerable amounts of clay and other unknown or undesirable fill materials unsuitable for compression and wind tension capabilities.

Excavation was performed by Alluriam Stone in the summer of 2005 to prepare the construction site for the concrete pad. It was determined by wind and compression loads that eleven helical

piles would be needed to support the concrete slab.

AFSB installed eleven Drive Rite™ 26000 Series 2-7/8" schedule 80 helical piles configured with 8" and 10" helical flights. Helical piles were driven to design torque of 5,000 foot-pounds at depths ranging from 9' to 12'.

AFSB installed pile cap plates for steel rebar installation that was performed by Alluriam Stone. Ray McLevy with Alluriam Stone was thoroughly impressed with the timeliness of the job compared to cast and auger concrete piles and the fact that normal plant operations were not interrupted during this process.



*Close-up of Pile with Top Plate*

### Headquarters

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