

# Repair Piles for Parking Deck

Tallahassee, FL: Attorneys' Offices of Sachs & Sax



[www.driveritepiers.com](http://www.driveritepiers.com)



## Scope of Work:

*Installation of Helical Piles to  
Replace Failed Auger Cast Piles*

## General Contractor:

*Barton Construction*

## Foundation Contractor:

*Alpha Foundation Specialists, Inc.*



*Before and After Views of Replacing  
Failed Auger Cast Piles with Drive  
Rite™ Helical Piles for Parking Deck*

Alpha Foundation Specialists, Inc. was contacted by Barton Construction to stabilize the attorneys' office of Sachs and Sax. This office was constructed above the parking area. The office was supported by 25 auger cast piles. The auger cast piles had as much as 4" of failure. It was discovered through test borings that the auger cast piles were not belled at the bottom like they were designed. Further expansive soils were found in the top 15' of the soil.

AFS was contacted to create a solution to prevent the continued settlement of the building. AFS worked with Bark-

ley Engineering to design a reinforced collar around the auger cast piles which would allow for an attachment with a helical pile and retrofit bracket. There was just over 7' of vertical clearance so helical piles were the obvious answer to the clearance issues.

Barkley Engineering provided the needed allowable column loads which ranged from 30-207 kips. AFS installed 4 to 6 piles per column location to support the load. Each pile had a triple (8", 10", 12") or quad (8", 10", 12", 12") helix arrangement. The lighter loads were supported with a 2-7/8" sched-

ule 80 shaft and the heavy loads with a 3-1/2" schedule 80 shaft.

During excavation a main sewer line was found that would intercept the piles' intended location; however, due to the versatility of a helical pile it was easily reconfigured around the line. Two piles installed made contact with a concrete layer at approximately 17' of depth and were easily removed and reinstalled in new strategic positions to avoid the layer and withstand the desired loads. No other system would have the ability to be readily moved at cost this minimal.

## Headquarters

1627 Columbia College Drive  
Columbia, SC 29203

## Contact

Fred Ford: 1-866-525-6996  
Mike Wegman: 1-877-791-9070  
Email: [info@driveritepiers.com](mailto:info@driveritepiers.com)

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