



COMMON USES:

- Deep foundations for new structures in soils
- Can be used in some low headroom applications for additions to existing structures
- For retaining walls to create a continuous facing prior to excavation

Beginning as a driven piling company in 1955, Nicholson has continuously looked to develop innovative and cost-effective solutions for deep foundation systems. One such solution is the use of augercast piles or continuous flight augered (CFA) piles. Augercast piles are formed by drilling into the ground with a hollow stemmed continuous flight auger to the required depth or degree of resistance. A high slump concrete mix is then pumped down the stem of the auger under constant pressure while the auger is slowly withdrawn leaving a shaft of fluid concrete to ground level. Depending on reinforcement requirements, steel can be cast in place with the pile, installed later by hand for shorter smaller capacities, or a cage is installed mechanically for longer and/or higher capacity piles.

It is important to maintain proper quality control when installing augercast piles in order to avoid discontinuous concrete diameters over the length of the pile. Nicholson uses an electronic data recording system on all augercast pile projects to confirm drilling and grouting parameters during installation, thus confirming the piling profile.