

**Private Community Development
Cape Cod, MA**

AWE was the geothermal HVAC engineer for the project. AWE designed a centralized geothermal heating and cooling system for the small community consisting of 9 houses. The community will share the central geothermal ground loop with individual houses being responsible for their own heat pumps to maximize geothermal efficiency and energy savings. Due to the location being all sand, sonic drilling was used for the project which not only prevented boreholes from collapsing, but also shortened the drilling time and saved cost.



(Under Construction)



26 boreholes were drilled with a sonic drill rig. Most boreholes were drilled in groups of 3, 1 vertical (90 degrees), 1 at 70 degrees and 1 at 50 degrees.



Sonic drilling in progress.



Ground heat exchanger (U-tube) installation in progress.