

## Example Projects — Geothermal

### Private Driveway Snow-melting, Rye, NH

AWE engineered the Geothermal snow-melting system for the 7,500 sq-ft existing driveway. A vertical borehole close-loop ground source heat pump system was designed to retrofit the existing propane-fired hot water snow-melting system. The geothermal heating system successfully passed the test of the unusually big and frequent snow storms in the winter of 2010 - 2011. Significant energy cost savings were achieved by the geothermal system based on metered data and previous utility bills: 66% savings compared with 2009, 88% savings compared with 2008.

(Completed in 2010)



Grouting of boreholes



Water-to-water ground source heat pumps were installed, with total heating capacity over 140 tons.



62 vertical boreholes were drilled



Header pipes run to mechanical room from borehole field



After a typical snow storm