

Project Information

- Completion Date: Currently under construction

Design Engineering

- Four parallel 1500 ft standing column geo-exchange wells
- Variable frequency drive engaged for well water flow control and energy efficiency.
- Automatic purge of well water filters.
- Distributed ground source heat pumps utilized throughout the building
- Industrial geo-exchange control system with an extremely easy to use interface.
- High efficiency modulating boiler installed for back-up emergency heat, if needed. Periodic automatic operational tests included to ensure the emergency back-up boiler will operate if emergency heat is required.

This development is a new construction project consisting of a mixed-use development with 48 housing units, 3,650 square feet of retail space, and a community room on the ground floor using high efficiency ground source heat pumps. The property, located at 233 Blue Hill Avenue in Roxbury, MA, will provide approximately 60 full time jobs during the 12 month construction schedule and also develops the largest remaining vacant site along Blue Hill Avenue. A geo-exchange (a.k.a. geothermal) system was designed which included four 1500 foot standing column wells piped into two heat exchangers located in the central plant to support a water-source heat pump loop.



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