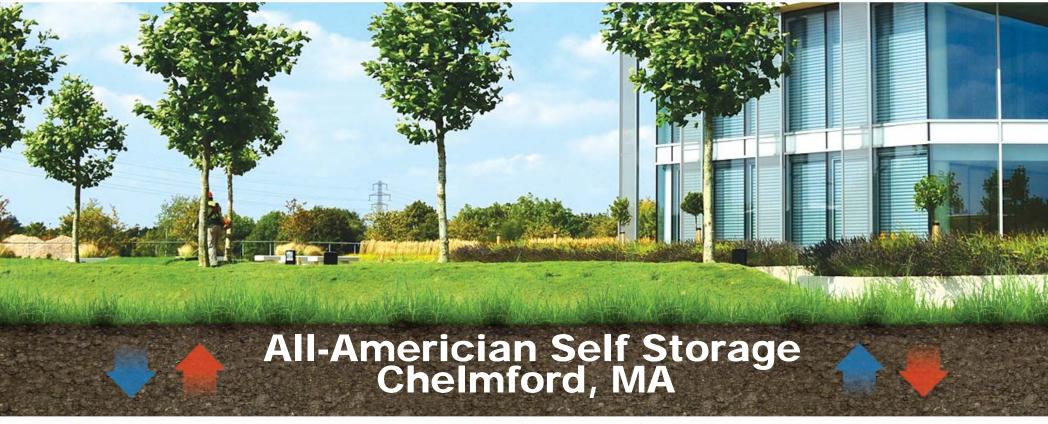
NY-GEO Top Job Competition April 2019









Last year, Lloyd called me an Interloper with my Red Sox Cap.

I want you to know I have roots in New York.

I am Colgate Geology Class of 1985



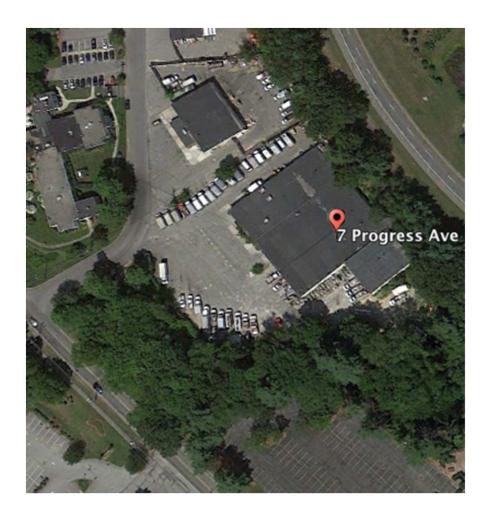
Project Site and Scope





Building and Vicinity 2015

New Building 2019





Why was Geothermal Selected?

- Low Operating Cost = Higher Value for Facility
- High efficiency and Low Carbon Footprint
- Ability to service multiple zones on one AHU/GSHP
- Client thinks Geo is Cool
- Straightforward monitoring, remote control and remote configuration
- *Client trusted us based on prior project







- 130,000 Square Foot Building
- Vertical Closed Loop 18 Borings to 420'
- Design relies on Bentonite/Graphite Grout with a Thermal Conductivity of 1.6 Btu/hr-ft-°F
- Variable Speed GSHPs
- Variable Speed Circulation in Primary-Secondary Configuration
- Remote Monitoring, Control and Configuration





VCL Construction







Quality Control Matters







- □ Grout TC Testing during VCL Install averaged: 0.861 Btu/hr-ft-°F
 - ▶Installed 2 additional borings (TC 1.634) for field average of 0.969 Btu/hr-ft-°F.
- ☑Borings located via Total Station Survey and via Drone Images
 - Site contractor hit piping twice making location information important







Completed Project





All-American Self Storage 2019





Why is All-American Self Storage the Top Job?

Scope of Project: 130,000 square feet
High Performance, Variable Speed Equipment
Designed with Low Borehole Thermal Resistance
Redundant Systems
Support of multiple zones on one GSHP
Use of monitoring system to optimize efficiency
Last but not least: Quality Control saved the day







Contact Information:

Larry Lessard

Llessard@AchieveRenewable.com

978-338-5548 x102



