



## NYCHA Two Bridges Houses Boilers Replacement

AG worked as Sub-Consultant to B. Thayer Associates, and was responsible for replacing the existing (2) dual fuel (#2 oil & natural gas) 199HP boilers located in the central steam heating plant serving all buildings heating and domestic hot water needs of the housing complex with new gas fired similar capacity steam boilers. AG completed design with all construction documents in April, 2013.

The scope of the work involved replacing the following:

- Boilers, burners, control systems and draft regulators
- Breeching
- Boiler feed water system
- Demolish fuel oil handling system)
- Natural gas supply system
- Combustion air & boiler room ventilation
- Boiler room drainage and plumbing
- Boiler room electrical service
- Electrical distribution within the boiler room
- Demolition of unused systems

Engineering for the new plant includes calculations to determine the heating and domestic hot water loads. Boiler size and number are based on the space heating and domestic hot water loads determined. Boiler output then determines the size of the condensate receiver and boiler feed pumps. Piping was sized to meet maximum load demand.

### Location:

New York, NY

### Owner:

NYCHA

### Services Provided:

HVAC

Plumbing

Fire Protection

Electrical Design



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