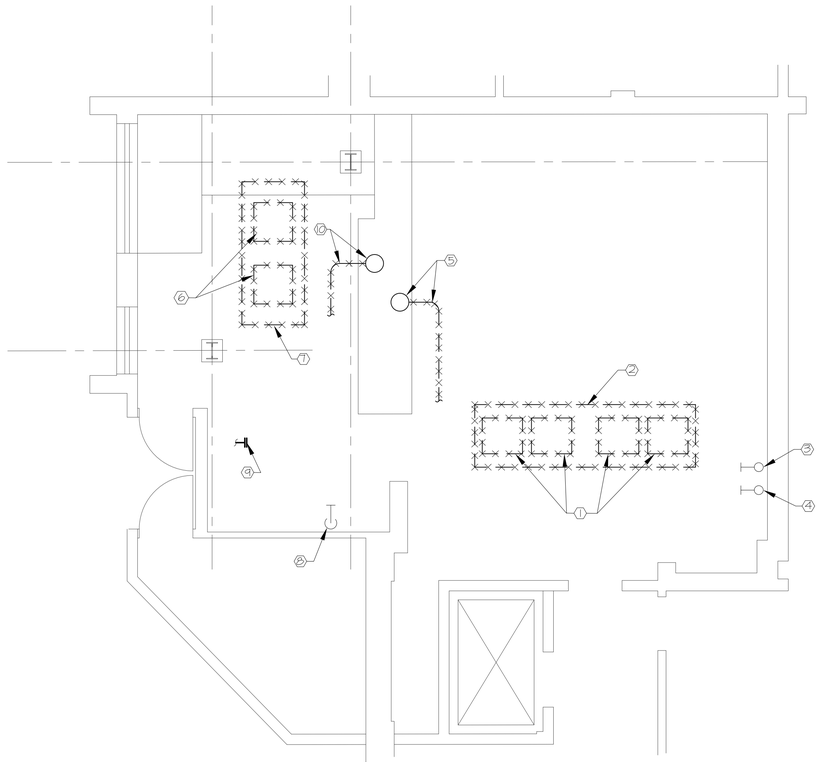
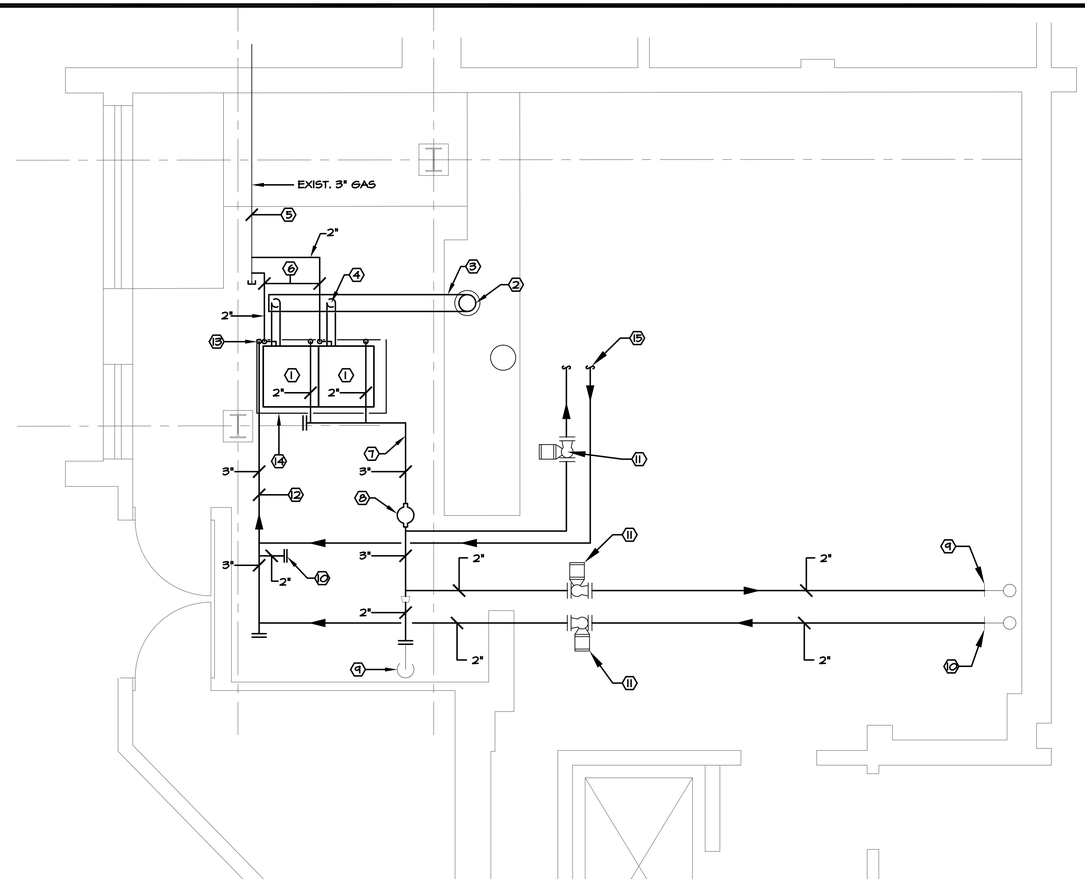


REMOVALS PLAN
SCALE: 1/4"=1'-0"

HEATING REMOVALS NOTES

1. Remove existing boilers, piping, accessories, etc. as noted and required. Retain existing Pumps for Re-Installation as shown.
2. Remove existing concrete pad and patch floor.
3. Remove all Hot Water Supply Piping to this point. Retain Existing Supply Pumps for Re-Installation
4. Remove all Hot Water Return Piping to this point. Retain Existing Return Pump for Re-Installation.
5. Remove horizontal breeching to riser. Retain riser for conduit to roof.
6. Remove existing boilers, piping, accessories, etc. as noted and required. Existing supply and return piping and pumps to older building heating system shall remain.
7. Remove existing concrete pad and patch floor.
8. Remove all Hot Water Supply Piping to this point. Existing Pumps to Older Building to remain
9. Remove all Hot Water Return Piping to this point.
10. Remove horizontal breeching to riser. Retain riser for conduit to roof.



HEATING NEW WORK PLAN
SCALE: 3/8"=1'-0"

HEATING NEW WORK NOTES

1. New Gas Fired Condensing Boilers. Refer to Engineering Data for Details.
2. 8" Dia. Single Wall Chimney Riser up to Roof in Existing 10" Dia. Chimney. Provide Flashing Collar as required. New Chimney to be minimum 3' above roof. New Chimney to be Lifetime Type XUL or equal.
3. 8" Dia. Double Wall Breeching to New Riser. New Breeching to be Lifetime Type Xi1 or approved equal. Pitch Breeching Up to Riser at ¼"/ft. with Sweep Elbow at Bottom.
4. 6" Dia. Flue Connection from each Boiler with 6" elbow at Boiler and 45 Deg. Reducing Tee on Breeching in Direction of Flow.
5. Existing 3" Gas Line. Cap where Shown and Provide Two 2" Tees for Connection to Boilers.
6. 2" Gas Drop to Each Boiler with Dirt Leg at Bottom and 1" Connection with Plug Shut Off Valve.
7. 3" Supply Header from Boilers. Run 2" Supply from Each Boiler.
8. 3" Air Separator. Refer to Engineering Data for Details.
9. Connect New Supply Piping to Existing at this Point. Existing Pumps to Older Building shall Remain.
10. Connect New Return Piping from Older Building to Existing at this Point.
11. Re-Install Existing Pumps on New Supply and Return Piping as shown. Provide New Ball Valve on Inlet and Check Valve and Ball Valve on Discharge.
12. 3" Return Header to Boilers.
13. Drop 3" Return Header as shown and Connect 2" Return to Each Boiler in Reverse Return Order. Provide Automatic Isolation Valve and Ball Valve on Supply and Ball Valve on Return. Provide Drain Valves for Boilers and Acid Neutralizing Kits on Flues as per manufacturer's instructions.
14. New Nominal 4" Concrete Pad Under New Boilers with Reinforcing Mesh. Tie into Existing Slab as Required.

ENGINEERING DATA

Boilers (Two Required)

Fulton Endura Model No. EXE-750 Gas Fired Condensing Boilers, Input of 750 MBH with 96% AHRI Thermal Efficiency. Boilers to operate with 120 Volt, Single Phase Power Supply and be complete with the following accessories.

- Auxiliary LWCO
- Supply Header Temperature
- Outdoor Air Sensor
- Condensate Trap
- Neutralization Kit
- Exhaust Adapter
- Motorized Isolation Valves

Air Separator

- Spirotherm Spirovent Air Eliminator, Model VSR Flanged, 3 Inch Size.

ISSUE	DATE	ISSUE
1	5/28/24	ISSUED FOR BID

PROJECT

RENOVATION of the BOILER PLANT at the FINKELSTEIN MEMORIAL LIBRARY

DRAWING TITLE

HEATING SYSTEM REMOVALS AND NEW HEATING SYSTEM INSTALL PLAN WITH NOTES.

PERILLO ASSOCIATES
CONSULTING ENGINEERS
39 FIELDS LANE, NORTH SALEM, NY 10560

DRAWN BY: AB
SCALE: AS NOTED
DATE: 5-28-24

DRAWING NO: M-1