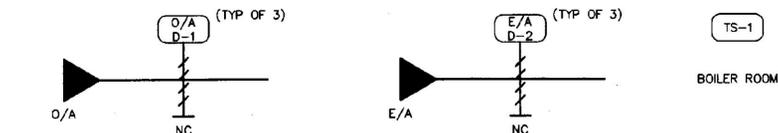


LOW COMBUSTION AIR DAMPERS @ BOILER ROOM

HIGH VENTILATION DAMPERS @ LOFT

BOILER COMBUSTION AIR CONTROL

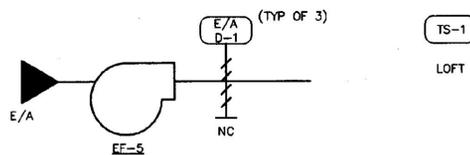
Provide combustion air and associated ventilation motor operated dampers as indicated for each boiler. Provide controls and interlocks to open one combustion air and associated ventilation damper when its dedicated boiler operates and to close when boiler is not operating.



MECHANICAL ROOM GRAVITY VENTILATION

MECHANICAL ROOM VENTILATION (Gravity)

A low voltage electric thermostat (rev. acting) shall open the two position outside air dampers (3x) (low combustion air dampers) and two position exhaust air dampers (3x) (high ventilation dampers) when set point is exceeded. When thermostat is satisfied dampers shall close. Note: These are the same automatic dampers used for boiler combustion air control.

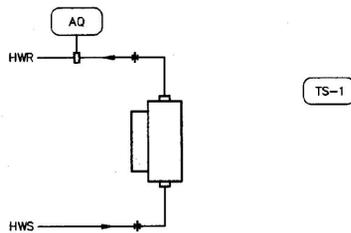


MECHANICAL ROOM VENTILATION

LOFT VENTILATION (Mechanical)

An electric line voltage thermostat (rev. acting) as indicated shall open EF-5 E/A damper when set point is exceeded, a damper limit switch shall start EF-5 when damper is open.

When space thermostat is satisfied damper shall close and fan shall stop. ATC shall provide line voltage thermostat to Electrical Contractor for installation per Electrical Drawings. Make-up air shall be provided by building infiltration.



UNIT HEATER CONTROL

UNIT HEATER CONTROL

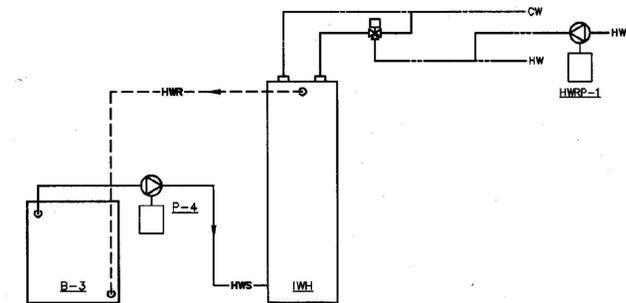
A wall mounted line voltage thermostat (as indicated) shall start the heater fan when room temperature is below heating set point. A stop-on line voltage aquastat shall prevent fan operation at low water temperatures (120°F) ATC shall furnish thermostat and aquastat to Electrical Contractor for wiring per electrical drawings.



PANEL RADIATION CONTROL

RADIATION CONTROL

Provide a low voltage heating thermostat as indicated. When space temperature drops below set point 3-way HW valve shall allow flow through radiation, when space temperature reaches set point, 3-way HW valve shall by-pass radiation. HW valve shall be "fail open" type. (flow through radiation)



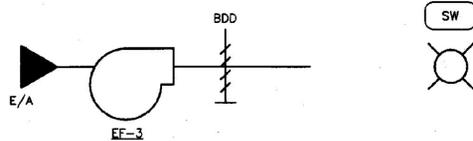
DOMESTIC HOT WATER HEATING CONTROL

DOMESTIC HW HTG. CONTROL

- On a call for heating by tank temperature sensor (furnished by mfg.) boiler B-3 shall fire and P-4 shall start. When temperature sensor is satisfied boiler B-3 and P-4 shall stop. Tank temperature sensor shall be set for 120°F (adj) HW. Thermostatic mixing valve (by others) is used as an anti-scald valve for fixtures receiving 120°F. hot water.
- Building hot water re-circulation pump HWRP-1 shall operate continuously in occupied time period and shall be off during unoccupied time period.

GENERAL NOTES:

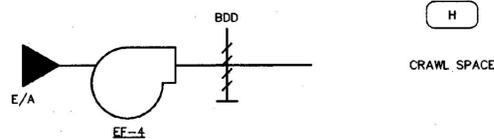
ALL MOTORS, INCLUDING DAMPER OPERATORS SHALL BE PROVIDED WITH HAND-OFF-AUTO SWITCHES.



FUEL OIL ROOM VENTILATION

FUEL OIL ROOM VENTILATION

A wall mounted switch with pilot light shall be manually switched ON/OFF to start/stop EF-3. Make-up air will be provided by building infiltration. Control and wiring shall be provided by Electrical Contractor per Electrical Drawings.



CRAWL SPACE HUMIDITY CONTROL (EF-4)

CRAWL SPACE VENTILATION CONTROL

A line voltage humidistat shall start EF-4 when set point is exceeded, when humidistat is satisfied fan shall stop. Humidistat shall be furnished by ATC Contractor and wired and installed by Electrical Contractor per Electrical Drawings.

No.	DATE	REVISION

DUNCAN • WISNIEWSKI ARCHITECTURE  
285 SOUTH CHAMPLAIN STREET, BURLINGTON, VERMONT 05401 (802) 864-9683

**Hallem Associates**  
30 Ferris Street, Suite 300  
So. Burlington, Vermont 05403  
(802) 658-4891

WILLISTON INFORMATION CENTER  
189 NORTHBOND  
STATE PROJECT # IM-BLDG (4)

HVAC FLOW SCHEMATIC

DRAWN: J.LAMOTHE	PROJ.No: 10215
CHECKED: M.COOK	DATE: JAN 15,2001

H-7nb

G:\Drawings\10215000\North\_Bound\h-7nb.dwg Monday, January 15, 2001 10:28:40 am jpl