

HWR HEADER

HIGH POINTS

HYDRONIC

COIL

HWR HEADER

TWO-POSITION

ZONE VALVE

AQUASTAT

BALANCE VALVE

SET @ 2.0 GPM

HIGH POINTS

BALANCE VALVE

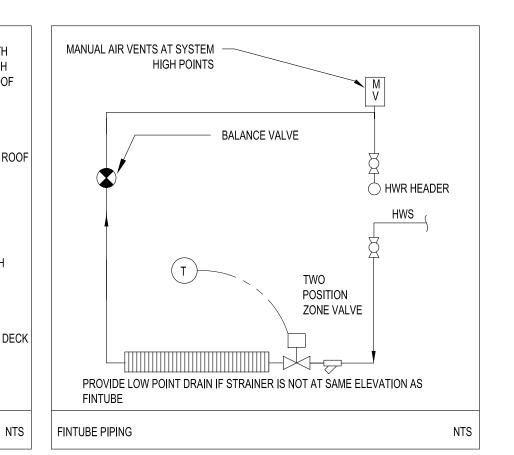
SET @ 3.5 GPM

MODULATING 3-WAY

CONTROL VALVE

FAN COIL

COIL



HEAT PUMP VENDOR'S SNOW AND RAIN

SHIELD. COLOR OF FINISH COAT PER

ADHESIVE ANCHOR BOLTS, 3" MINIMUM EMBEDMENT. HILTI HIT-HY-70. SIZE AND SPACING PER MANUFACTURER'S

HEAT PUMP MANUFACTURERS

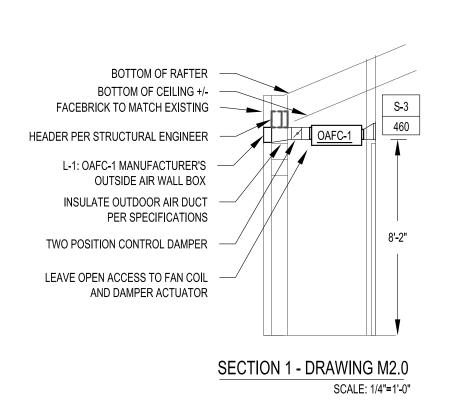
INSTALL ALL HEAT PUMPS AT

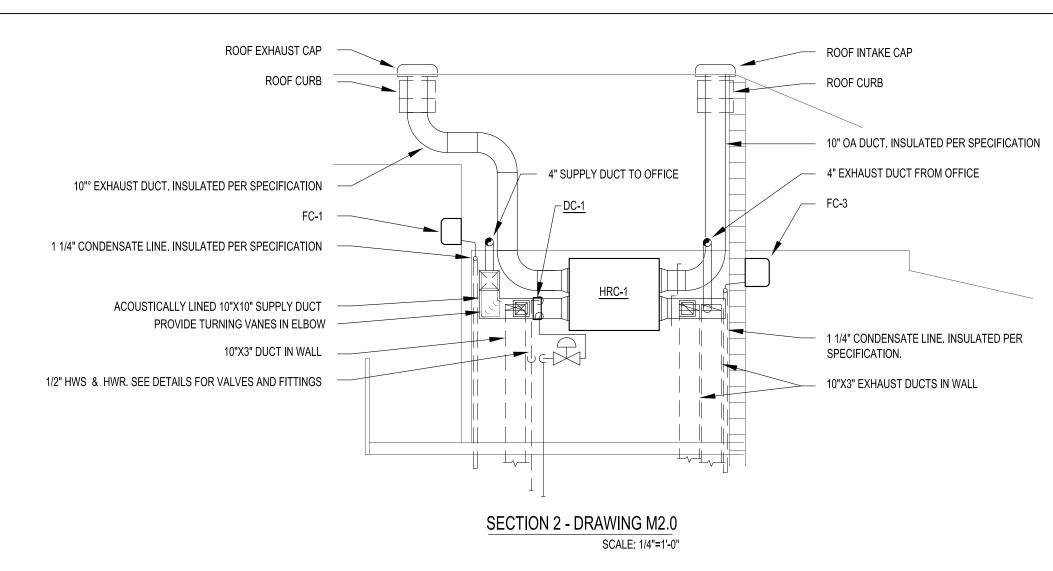
WALL MOUNT BRACKET.

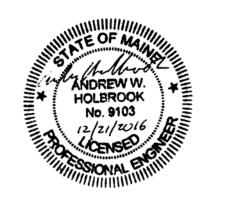
INSTRUCTIONS.

SAME ELEVATION

ARCHITECTS INSTRUCTIONS







ARCARCEOTECT:

207 871 5678

207 657 8031

207 283 9127

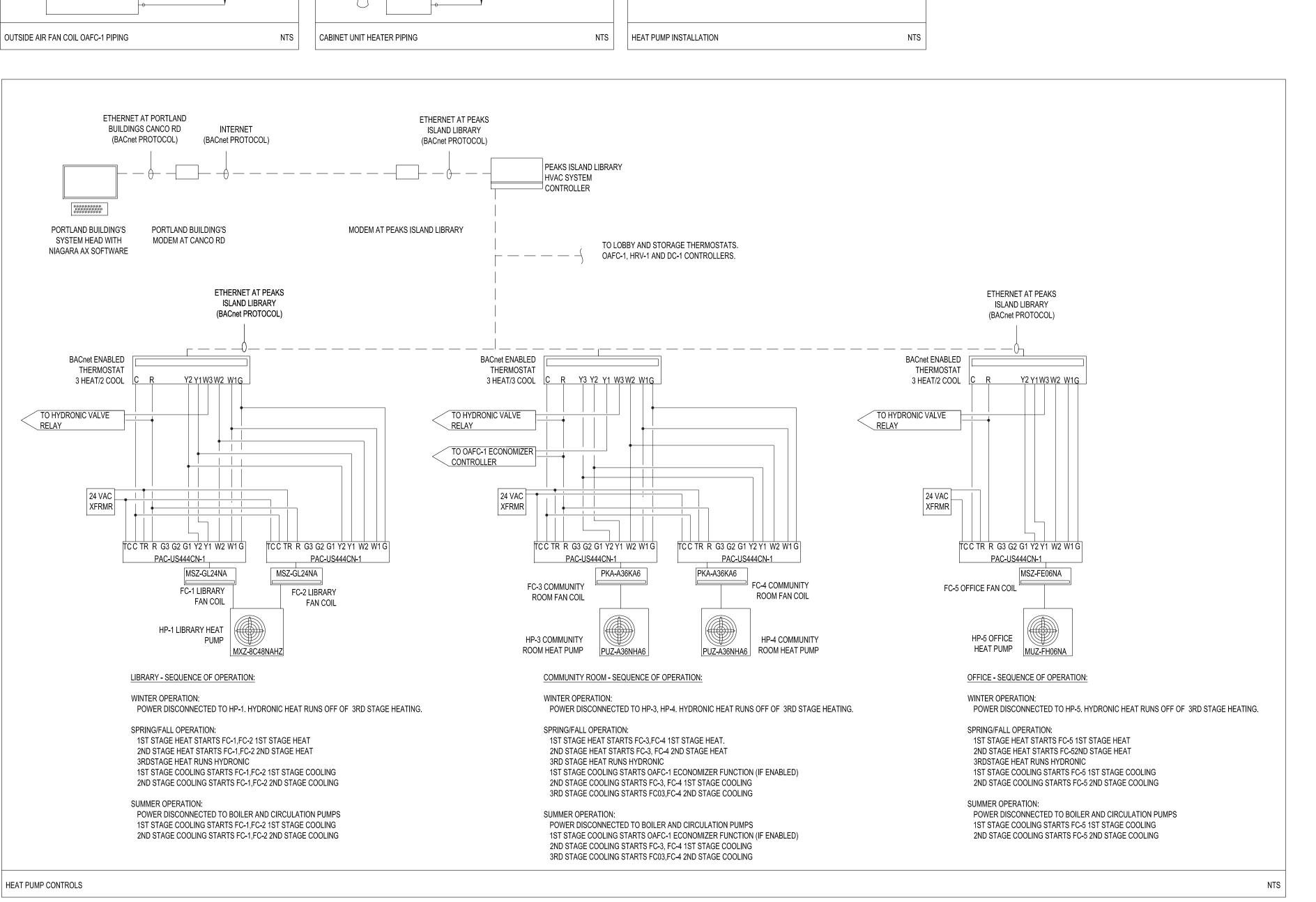
REED & CO. ARCHITECTURE 46 CUMBERLAND AVE PORTLAND, ME 04101

INTERIOR DESIGNER: COLE DESIGN PO BOX 361 KITTERY, ME 03904 207 653 0083

STRUCTURAL ENGINEER SHELLEY ENGINEERING PO BOX 1030 GRAY, ME 04039

MECHANICAL ENGINEER: HOLBROOK ENGINEERING 52 HEATH RD SACO, ME 04072

ELECTRICAL ENGINEER: BARTLETT DESIGN 942 WASHINGTON STREET BATH, MAINE 04530 207 443 5447



HVAC SEQUENCE OF OPERATIONS:

HYDRONIC HEAT BOILER AND CIRCULATION PUMPS SHALL BE MANUALLY ENABLED BY PORTLAND BUILDINGS.

HEAT PUMPS SHALL BE MANUALLY ENABLED BY PORTLAND BUILDINGS.

THERMOSTATS SHALL HAVE LOCAL SETPOINT OVERRIDES SET FOR A 2 HOUR (ADJ) DURATION.

HEAT PUMP AND FAN COILS SHALL OPERATE OFF OF THERMOSTAT'S 1ST & 2ND STAGE OF HEATING AND 1ST AND 2ND STAGE OF COOLING.

HYDRONIC HEAT OPERATE OFF OF THERMOSTAT'S 3RD STAGE OF HEATING.

CUH-1 FAN SHALL OPERATE WHEN AQUASTAT SENSES HOT HYDRONIC WATER.

HEAT PUMPS AND FAN COILS SHALL OPERATE OFF OF THERMOSTAT'S 1ST & 2ND STAGE OF HEAT AND 2ND AND 3RD STAGE OF COOLING.

HYDRONIC HEAT SHALL OPERATE OFF OF THERMOSTAT'S 3RD STAGE OF HEATING.

OUTDOOR AIR DAMPER SHALL OPEN AND OUTDOOR AIR FAN COIL (OAFC-1) SUPPLY FAN SHALL RUN UPON ACTIVATION OF ECONOMIZING FUNCTION OR CALL FOR VENTILATION AIR.

OAFC-1 HYDRONIC VALVE SHALL MODULATE TO MAINTAIN 70°F (ADJ) DISCHARGE TEMPERATURE AND CIRCULATION PUMP SHALL RUN WHEN VENTILATION FUNCTION IS ACTIVATED.

OAFC-1 ECONOMIZING FUNCTION SHALL BE ACTIVATED WHEN OUTDOOR AIR TEMPERATURES ARE BETWEEN 50°F (ADJ) AND 65°F (ADJ) AND OUTDOOR ENTHALPY IS LESS THAN 25 BTU/LB AND THERMOSTAT CALLS FOR 1ST STAGE COOLING.

OAFC-1 VENTILATION AIR FUNCTION SHALL BE COMMENCE WHEN CO2 SENSOR SENSES LEVELS ABOVE 700PPM (ADJ).

OAFC-1 FREEZESTAT SHALL STOP SUPPLY FAN, CLOSE OUTDOOR AIR DAMPER AND OPEN HYDRONIC VALVE IF DISCHARGE TEMPERATURE FALLS

HEAT PUMP AND FAN COIL SHALL OPERATE OFF OF THERMOSTAT'S 1ST AND 2ND STAGE OF HEAT AND 1ST AND 2ND STAGE OF COOLING.

HYDRONIC HEAT OPERATE OFF OF THERMOSTAT'S 3RD STAGE OF HEATING.

LOBBY THERMOSTAT SHALL OPEN ZONE VALVE AND UPON CALL FOR HEAT.

CUH-2 FAN SHALL OPERATE WHEN AQUASTAT SENSES HOT WATER.

LOBBY THERMOSTAT SHALL OPEN ZONE VALVE UPON CALL FOR HEAT.

HRV-1 SHALL OPERATE DURING SCHEDULED OCCUPIED HOURS.

HRV-1 SHALL OPERATE UPON MOTION SENSE IN EITHER RESTROOM AND SHALL BE SECURED 15 MINUTES AFTER FINAL MOTION SENSE.

HYDRONIC VALVE FOR DC-1 SHALL BE ENABLED AND CIRCULATION PUMP ACTIVATED WHENEVER HRV-1 IS OPERATING. HYDRONIC VALVE SHALL MODULATE TO MAINTAIN 75° SUPPLY AIR DISCHARGE TEMPERATURE. COIL FREEZE-STAT SHALL STOP SUPPLY FAN AND OPEN HYDRONIC VALVE UPON AIR TEMPERATURE BELOW 40°F.

CIRCULATING PUMP SHALL OPERATE WHENEVER ANY OF THE THERMOSTATS OR UNIT CONTROLLERS CALL FOR HYDRONIC HEAT.

PROPOSED **IMPROVEMENTS**

PEAKS ISLAND COMMUNITY CENTER & LIBRARY

HVAC DETS

Scale: NONE Revised