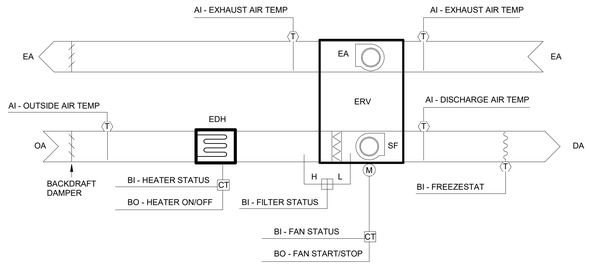


1) RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY.

2) FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

3) SUPPLY FAN:
THE SUPPLY FAN SHALL RUN CONTINUOUSLY UNLESS SHUTDOWN ON SAFETIES.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
i) FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

4) ELECTRIC DUCT HEATER (EDH):
THE UNIT SHALL RUN WHEN THE OUTSIDE AIR TEMP IS LESS THAN 40°F (ADJ.).

WHEN HEATER IS RUNNING, UNIT SHALL CONTINUE TO RUN UNTIL OUTSIDE AIR TEMP IS GREATER THAN 42°F (ADJ.).

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
i) HEATER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
ii) IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
iii) RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

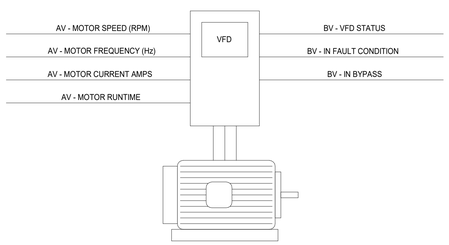
7) HEAT EXCHANGER TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE AIR TEMPERATUERS AT OA, DA, AND EA LOCATIONS.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
i) HIGH DA TEMP: IF THE DA TEMP IS GREATER THAN 80°F (ADJ.).
iii) LOW DA TEMP: IF THE DA TEMP IS LESS THAN 40°F (ADJ.).

8) SUPPLY FAN STATUS:
THE CONTROLLER SHALL MONITOR THE SUPPLY FAN STATUS.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
i) FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
ii) FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
iii) FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

2 ENERGY RECOVERY VENTILATOR
SCALE: N.T.S.



1) VARIABLE FREQUENCY DRIVE (VFD) INTERFACE MONITOR:
CURRENT VFD STATUS AND OPERATING CONDITIONS SHALL BE MONITORED THROUGH ITS COMMUNICATIONS INTERFACE PORT. THE INTERFACE SHALL MONITOR AND TREND THE POINTS.

NOTE:
THIS VFD INTERFACE SCHEMATIC MAY NOT REFLECT THE ACTUAL SENSORS AND POINTS AS SUPPLIED BY THE VFD MANUFACTURER. ALL INTERFACE POINTS SHALL BE COORDINATED WITH THE VFD SUPPLIER.

3 VARIABLE FREQUENCY DRIVE CONTROL SCHEMATIC
SCALE: N.T.S.

RUN CONDITIONS:
UNITS SHALL OPERATE AS FOLLOWS:

1). WHEN ONLY RESIDENTIAL DRYER IS TURNED ON

THE MAKEUP AIR UNITS SHALL BE OFF.

2). WHEN COMMERCIAL DRYERS ARE TURNED ON:

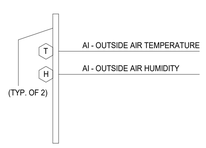
1. ONE (1) DRYER - BOTH UNITS SHALL OPERATE AT 600 CFM (ADJ) EACH.
2. TWO (2) DRYERS - BOTH UNITS SHALL OPERATE AT 1200 CFM (ADJ) EACH.
3. THREE (3) DRYERS - BOTH UNITS SHALL OPERATE AT 1800 CFM (ADJ) EACH.

CONTACTS SHOULD BE PROVIDED FROM THE DRYERS TO A CONTROLLER TO MONITOR QUANTITY OF DRYERS IN OPERATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
1. SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
2. SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

HEATING - GAS:
GAS HEAT SHALL BE PROVIDED WHEN THE TEMPERATURE IS BELOW 55-DEG F AND MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55-DEG F.

4 LAUNDRY MAKE-UP AIR UNIT CONTROL SCHEMATIC
SCALE: N.T.S.



1) OUTSIDE AIR CONDITIONS:

THE CONTROLLER SHALL MONITOR THE OUTSIDE AIR TEMPERATURE AND HUMIDITY AND CALCULATE THE OUTSIDE AIR ENTHALPY ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SUPERVISOR AT ALL TIMES.

A) ALARM SHALL BE GENERATED AS FOLLOWS:

I) SENSOR FAILURE: SENSOR READING INDICATES SHORTED OR DISCONNECTED SENSOR. IN THE EVENT OF A SENSOR FAILURE, AN ALTERNATE OUTSIDE AIR CONDITION SENSOR SHALL BE MADE AVAILABLE TO THE SYSTEM WITHOUT INTERRUPTION IN SENSOR READINGS.

II) IF AN OUTSIDE AIR TEMPERATURE SENSOR CANNOT BE READ, LAST KNOWN OUTSIDE AIR TEMPERATURE SHALL BE USED AS A DEFAULT VALUE.

III) IF AN OUTSIDE AIR HUMIDITY SENSOR CANNOT BE READ, A DEFAULT VALUE OF 50% WILL BE USED.

2) OUTSIDE AIR TEMPERATURE HISTORY:

THE CONTROLLER SHALL MONITOR AND RECORD THE HIGH AND LOW TEMPERATURE READINGS FOR THE OUTSIDE AIR. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTHLY, AND YEARLY BASIS.

5 OUTSIDE AIR CONDITIONS CONTROL SCHEMATIC
SCALE: N.T.S.

1) DIGITAL THERMOSTATIC MASTER MIXING VALVE (DMV-1):
MONITOR ALL POINTS AVAILABLE FROM DIGITAL MIXING VALVE.

2) THERMOSTATIC MIXING VALVE (TMV-1):
MONITOR THE TEMPERATURE DOWNSTREAM OF EACH THERMOSTATIC MIXING VALVE.

3) EMERGENCY EYEWASH/SHOWER ALARMS (EEWS-1):
MONITOR THE ALARMS FOR EACH EMERGENCY EYEWASH/SHOWER.

4) EMERGENCY GENERATOR STATUS:
MONITOR THE ON/OFF STATUS FOR THE GENERATOR.

5) DOMESTIC HOT WATER HEATERS:
INTERFACE WITH THE DOMESTIC HOT WATER HEATER CONTROLLER FOR MONITORING.

6) PACKAGED UNITS (DOAS-1, KITCHEN MAKEUP AIR UNIT, LAUNDRY MAKEUP AIR UNIT):
INTERFACE WITH MANUFACTURER PROVIDED CONTROLS FOR MONITORING.

7) DOMESTIC WATER BOOSTER PUMPS (DWBP-1):
INTERFACE WITH DOMESTIC HOT WATER BOOSTER PUMPS CONTROLLER FOR MONITORING.

8) DOMESTIC HOT WATER RECIRCULATION PUMP (HWRP-1):
INTERFACE WITH DOMESTIC HOT WATER RECIRCULATION PUMP CONTROLLER FOR MONITORING.

9) CRAC UNITS (CRAC-1):
MONITOR TEMPERATURE IN EACH OF THE ROOMS SERVED BY CRAC UNIT. PROVIDE ALARMS IF TEMPERATURE RISES ABOVE 85 F (ADJ.).

10) SOLAR THERMAL SYSTEM:
MONITOR TEMPERATURE UPSTREAM AND DOWNSTREAM OF EACH HEAT EXCHANGER. INTERFACE WITH RECIRCULATION PUMP CONTROLLERS FOR MONITORING. MONITOR BTU METER TO INDICATE GAS ENERGY USAGE SAVINGS

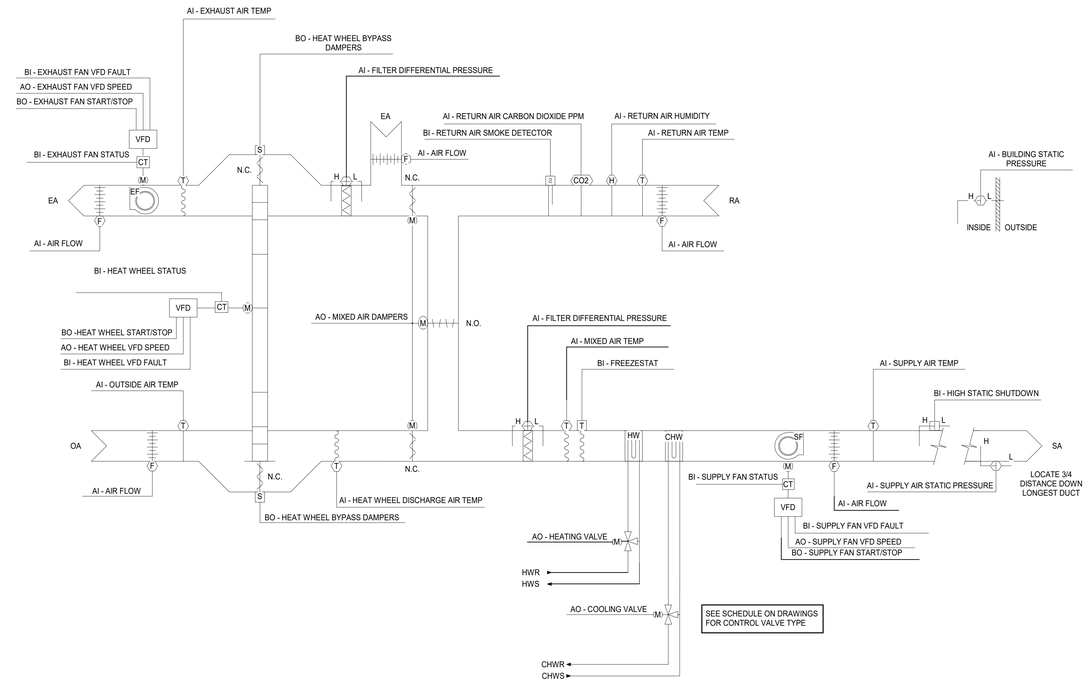
11) DUCTLESS SPLIT UNITS (DS-1,2):
INTERFACE VRF SYSTEM CONTROLLER WITH BUILDING MANAGEMENT SYSTEM TO MONITOR TEMPERATURES IN THE ROOM. PROVIDE ALARMS IF TEMPERATURE IN ROOM RISES ABOVE 85 F (ADJ.).

12) DUCTLESS SPLIT UNIT (DS-3):
MONITOR TEMPERATURE IN EACH OF THE ROOMS SERVED BY DUCTLESS SPLIT UNIT. PROVIDE ALARMS IF TEMPERATURE RISES ABOVE 85 F (ADJ.)

13) INDOOR HEAT PUMP UNITS (HPI-1,2,3)
INTERFACE VRF SYSTEM CONTROLLER WITH BUILDING MANAGEMENT SYSTEM TO MONITOR TEMPERATURES IN THE ROOM.

14) INDOOR HEAT PUMP UNIT (HPI-4)
MONITOR TEMPERATURE IN EACH OF THE ROOMS SERVED BY HEAT PUMP UNIT. PROVIDE ALARMS IF TEMPERATURE IN ROOM RISES ABOVE 85 F (ADJ.).

6 MISCELLANEOUS MONITORING POINTS
SCALE: N.T.S.



1) RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY UNLESS SHUT DOWN ON SAFETIES. SMOKE CONTROL OPERATION TO TAKE PRIORITES OVER ALL SAFETIES.

UNITS SHALL MEET ALL UL-864 REQUIREMENTS AS A PART OF SMOKE CONTROL SYSTEM.

2) EMERGENCY SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL.

3) FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

4) HIGH STATIC SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL.

5) RETURN AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

6) SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
II) SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

7) SUPPLY AIR DUCT STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.). THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED UPON THE POSITION OF THE ZONE DAMPERS. WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN.

THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5IN H2O (ADJ.). IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.3 IN H2O (ADJ.).

AS ONE OR MORE DAMPERS NEARS THE WIDE-OPEN POSITION, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.8IN H2O (ADJ.).

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
II) LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
III) SUPPLY FAN VFD FAULT.

8) EXHAUST FAN:
THE EXHAUST FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS. THE FAN SHALL RUN AT THE MINIMUM REQUIRED EXHAUST AIR AND INCREASE IN FLOW WHEN REQUIRED TO MATCH THE ECONOMIZER CYCLE.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
II) RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
III) RETURN FAN VFD FAULT.

9) BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE EXHAUST FAN VFD SPEED TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.05IN H2O (ADJ.). THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW THE EXHAUST CFM REQUIRED FOR THE SYSTEM (ADJ.).

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
II) LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

10) SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS.

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:

I) THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.).
II) AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.).
III) AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 63°F (ADJ.).

THE SUPPLY AIR TEMPERATURE SETPOINT FOR HEATING SHALL BE 55°F.

11) COOLING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

A) THE COOLING SHALL BE ENABLED WHENEVER:
I) OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
II) AND THE ECONOMIZER IS DISABLED OR FULLY OPEN.
III) AND THE SUPPLY FAN STATUS IS ON.
IV) AND THE HEATING IS NOT ACTIVE.

B) THE COOLING COIL VALVE SHALL OPEN TO 100% (ADJ.) WHENEVER THE FREEZESTAT IS ON.

C) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

12) HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 55 °F.

A) THE HEATING SHALL BE ENABLED WHENEVER:
I) OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
II) AND THE SUPPLY FAN STATUS IS ON.
III) AND THE COOLING IS NOT ACTIVE.

B) THE HEATING COIL VALVE SHALL OPEN WHENEVER:
I) SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
II) OR THE FREEZESTAT IS ON (100% OPEN).

C) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

13) ENTHALPY WHEEL OPERATION:

WHENEVER OA ENTHALPY IS HIGHER THAN RA ENTHALPY, THE WHEEL SHALL BE TURNED ON AND BOTH OA AND EA BYPASS DAMPERS SHALL BE CLOSED. WHEN OA ENTHALPY IS LESS THAN RA ENTHALPY AND AHU IS COOLING (OR AIRSIDE ECONOMIZING), THE WHEEL SHALL BE TURNED OFF AND BOTH OA AND EA BYPASS DAMPERS SHALL BE OPEN.

WHEN THE AHU IS HEATING, THE WHEEL SHALL BE TURNED ON AS THE FIRST STAGE OF HEAT, THE OA BYPASS DAMPER SHALL BE CLOSED, AND THE EA BYPASS DAMPER SHALL MODULATE (AS NECESSARY) TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SETPOINT (ADJ.).

IF THE OA TEMPERATURE DROPS BELOW THE FROST THRESHOLD SETPOINT (ADJ.) , THE OA BYPASS DAMPER SHALL MODULATE TO MAINTAIN, THE EXHAUST SIDE LEAVING TEMPERATURE AT SETPOINT. IF THE OA BYPASS DAMPER REACHES 100% OPEN FOR 5 MINUTES (ADJ.), THE WHEEL SHALL BE TURNED OFF TO PREVENT FROSTING.

PERIODIC SELF CLEANING: THE HEAT WHEEL SHALL RUN AT 5% SPEED (ADJ) FOR 10 SEC (ADJ.) EVERY 4 HOURS (ADJ.) THE UNIT RUNS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
A) HEAT WHEEL ROTATION FAILURE: COMMANDED ON BUT THE STATUS IS OFF.
B) HEAT WHEEL IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
C) HEAT WHEEL VFD IN FAULT.

13) ECONOMIZER:
THE CONTROLLER SHALL MEASURE THE MIXED AIR ENTHALPY AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT OF 2 BTU/LB (ADJ.) LESS THAN THE SUPPLY AIR ENTHALPY SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION TO MEET OA CFM INDICATED ON SCHEDULE (ADJ.) OPEN CONTINUOUSLY.

A) THE ECONOMIZER SHALL BE ENABLED WHENEVER:
I) OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
II) AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
III) AND THE SUPPLY FAN STATUS IS ON.
IV) AND THE OUTSIDE AIR ENTHALPY IS LESS THAN 22 BTU/LB (ADJ.).
V) AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY.

B) THE ECONOMIZER SHALL CLOSE WHENEVER:
I) MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
II) OR THE FREEZESTAT IS ON.
III) OR ON LOSS OF SUPPLY FAN STATUS.

C) THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF.

14) MINIMUM OUTSIDE AIR VENTILATION - CARBON DIOXIDE (CO2) CONTROL:
THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 CONCENTRATION AND MODULATE THE OUTSIDE AIR DAMPERS OPEN ON RISING CO2 CONCENTRATIONS, OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A CO2 SETPOINT OF 700 PPM (ADJ.).

15) FINAL FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

16) MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL OR PREHEATING CONTROL (IF PRESENT).

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
II) LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

17) RETURN AIR CARBON DIOXIDE (CO2) CONCENTRATION MONITORING:
THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 CONCENTRATION.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH RETURN AIR CARBON DIOXIDE CONCENTRATION: IF THE RETURN AIR CO2 CONCENTRATION IS GREATER THAN 1000PPM (ADJ.) WHEN IN THE UNIT IS RUNNING.

18) RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
II) LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

19) SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120° F (ADJ.).
II) LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

20) RETURN AIR HUMIDITY:
THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR ECONOMIZER CONTROL.

A). ALARMS SHALL BE PROVIDED AS FOLLOWS:
I. HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJ.).
II. LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 35% (ADJ.).

21) FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER.

A) ALARMS SHALL BE PROVIDED AS FOLLOWS:
I) FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

1 AIR HANDLING UNIT WITH ENERGY RECOVERY CONTROL SCHEMATIC (AHU 1,2)
SCALE: N.T.S.

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NO.	REVISION	DATE

DRAWN: SSB CHK'D: ESA
DESIGNED: SSB
APPRV'D: JRA
DATE: DECEMBER 20, 2021

PROJECT NUMBER
2063-1048-90

SULLIVAN COUNTY SHERIFF'S OFFICE AND CORRECTIONAL FACILITY
2357 NORTH SECTION STREET SULLIVAN, INDIANA 47882

CONTROL SCHEMATICS - I

DRAWING NUMBER
M7.1

MECHANICAL