ALARMS, INTERLOCKS AND SAFETIES:
- THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD.

BUILDING OCCUPANCY SCHEDULING:
- WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
  - THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU BACNET INTERFACE PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00.

SEQUENCE OF OPERATION:
- FIRE ALARM RELAY (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- DUCT STATIC PRESSURE SENSOR IN SUPPLY DUCT.
- MORNING START:
  - MONDAY THROUGH FRIDAY: 6:00AM
  - SATURDAY THROUGH SUNDAY: 7:00AM (ADJ.)
- UP MODE:
  - MONDAY THROUGH FRIDAY: 9:00PM
  - SATURDAY THROUGH SUNDAY: 8:00AM (ADJ.)
- DOWN MODE:
  - MONDAY THROUGH FRIDAY: 5:00AM (ADJ.)
  - SATURDAY THROUGH SUNDAY: 6:00PM (ADJ.)

- ACCURATE AIRFLOW READING
  - AIR FLOW METER TO OBTAIN EXHAUST AIR FLOW.

- DEHUMIDIFICATION CONTROL:
  - DISCHARGE AIR TEMPERATURE SHALL BE 55°F (ADJ.) AND 95°F (ADJ.) TO MEET SPACE TEMPERATURE SETPOINT.
- SUPPLY AIR TEMPERATURE CONTROL:
  - WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE AT THE BALANCED MINIMUM POSITION BASED ON THE VENTILATION REQUIREMENTS.
- VENTILATION CONTROL:
  - RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL AND OPERATE EXHAUST FAN AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C.
- EXHAUST FAN CONTROL:
  - SUPPLY FAN CONTROL:

- REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

- WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:
  - DEHUMIDIFICATION CONTROL:
  - SUPPLY FAN AND EXHAUST FAN SHALL STOP.
  - HQS 1 OF SPACE COOLING AND HEATING SHALL BE DISABLED.
  - OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.
  - OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.

- HUMIDITY SENSORS PROVIDED AND SENSOR FEEDER/RACEWAY PROVIDED BY TCC.
- DUCT SMOKE DETECTOR INTERLOCK TO RTU CONTROL PANEL BY INSTALLED BY MECHANICAL CONTRACTOR.
- INTERLOCK TO RTU CONTROL PANEL BY INSTALLED BY MECHANICAL CONTRACTOR.
- WIRED BY ELECTRICAL CONTRACTOR.

- DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES.
- DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR 365 DAYS.
- AHU REPORT GENERATION:
  - OUTSIDE AIR TEMPERATURE SENSOR.
  - RETURN AIR RELATIVE HUMIDITY [%]
  - SUPPLY AIRFLOW [CFM]
  - SUPPLY AIR TEMP (SAT) [°F]
  - GLOBAL OUTSIDE AIR DEWPOINT [°F] GLOBAL OUTSIDE AIR HUMIDITY [%RH]
  - TIME DATE PROJECT #
SEQUENCE OF OPERATION:

1. EXHAUST FAN CONTROL - CONTINUOUS OPERATION - EF-1

2. CABINET HEATER CONTROL - HYDRONIC

3. SEWAGE PUMP MONITORING

4. SUMP PIT ALARM

5. VACUUM PUMP CONTROL DIAGRAM

NOTES:

1. PROVIDE CONTROL PANEL CAPABLE OF TWO ALARM POINTS FOR EACH PUMP

ALARMS, INTERLOCKS & SAFETIES:

FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR:

• ANY PUMP INDICATES AN ALARM CONDITION.

• THE CONTROLLER INDICATE AN ALARM CONDITION.