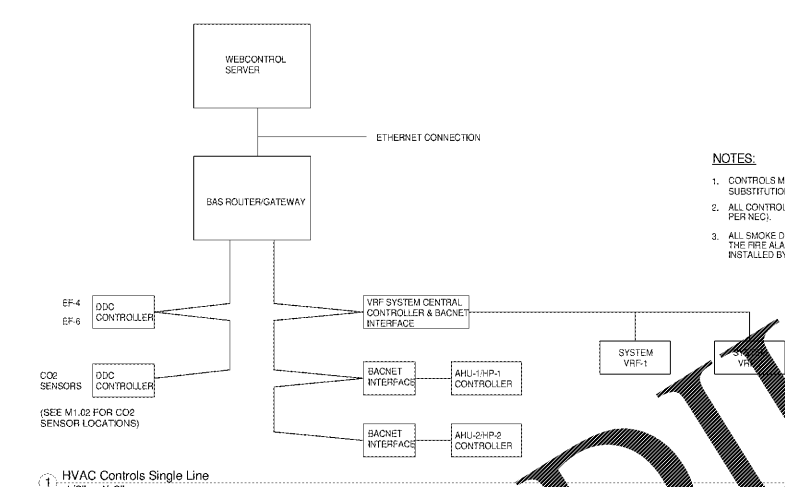


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- NOTES:**
1. CONTROLS MANUFACTURER SHALL BE AUTOMATED LOGIC. NO SUBSTITUTIONS.
 2. ALL CONTROLS WIRING SHALL BE RUN IN CONDUIT (RIGID, FLEX OR EMT AS PER NEC).
 3. ALL SMOKE DETECTORS SHALL BE PROVIDED BY DIV. 26 AND WIRED TO THE FIRE ALARM SYSTEM BY DIV. 26. SMOKE DETECTORS SHALL BE INSTALLED BY DIV. 22 AND WIRED FOR FAN SHUTDOWN.

① HVAC Controls Single Line
1/8" = 1'-0"

AHU-1/HP-1 & AHU-2/HP-2

START/STOP
SUPPLY FAN SHALL START AND STOP ACCORDING TO A USER DEFINED OCCUPANCY AND HOLIDAY SCHEDULE AND SHALL BE SUBJECT TO SMOKE DETECTORS AND FIRE ALARM SHUTDOWN. THE OUTSIDE AIR DAMPER SHALL BE CLOSED WHEN THE UNIT IS NOT RUNNING.

DISCHARGE AIR TEMPERATURE
DISCHARGE AIR TEMPERATURE CONTROLLER SHALL CONTROL THE SUPPLY AIR TO 72°F DB IN COOLING MODE AND 68°F IN HEATING MODE AND SHALL MAINTAIN A DEAD BAND OF 4°F. THE UNIT SHALL BE IN DEHUMIDIFICATION MODE ANYTIME THE OUTSIDE AIR DEWPOINT IS ABOVE 55°F.

FAN SPEED
SUPPLY FAN SPEED SHALL BE CONTROLLED BY THE BAS BASED ON THE SPACE WITH THE HIGHEST CO2 READING. THE SPACE WITH THE HIGHEST CO2 SHALL NOT EXCEED 600 PPM. THE SUPPLY FAN SPEED SHALL VARY BETWEEN THE 100% AND 50% OF AIRFLOW SHOWN ON THE SCHEDULE.

ALL VRF (U UNITS (INDOOR UNITS)

ALL VRF INDOOR UNITS (IUS) SHALL BE CONTROLLED BY THEIR FACTORY PROVIDED WALL MOUNTED SPACE TEMPERATURE CONTROLLERS. DURING UNOCCUPIED TIMES, THE SPACE TEMPERATURES SHALL BE SET TO THE UNOCCUPIED HEATING AND COOLING SETPOINTS.

② Sequence of Control
1/8" = 1'-0"

EXHAUST FANS

EF-1 & 2
EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS AND SHALL RUN WHEN LIGHTS ARE ON. PROVIDE STATUS TO BAS SYSTEM.

EF-3
EXHAUST FAN SHALL RUN CONTINUOUSLY.

EF-4
EXHAUST FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. PROVIDE START/STOP AND STATUS.

EF-6
EXHAUST FAN SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT. FAN SHALL RUN WHEN TEMPERATURE RISES ABOVE SETPOINT OF 70 DEG. F.

KITCHEN HOOD FANS

EF-5 & MAKE-1
EF-5 AND MAKE-1 SHALL BE CONTROLLED BY KITCHEN HOOD FACTORY CONTROLLER/VFDS. FAN SPEED SHALL VARY BASED ON THE HEAT AND SMOKE GENERATED BY THE COOKING EQUIPMENT AS DETERMINED BY THE HOOD FACTORY CONTROLLER.

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SC STATE UNIVERSITY
CAMP HARRY G. DANIELS 1890 EXTENSION
FACILITY CONSTRUCTION
 Agency Review ID: H24-9649-CA
 116 Camp Daniels Road, Ellenton, SC

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NO.	DATE			
BID SET	09/15/2017			
PRINCIPAL IN CHARGE:		SCS		
PROJECT ENGINEER:		SCS		
DRAWN BY:		SCS		
SHEET TITLE: HVAC CONTROLS				
SHEET NO. _____ PROJ. NO. 015315.00				
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