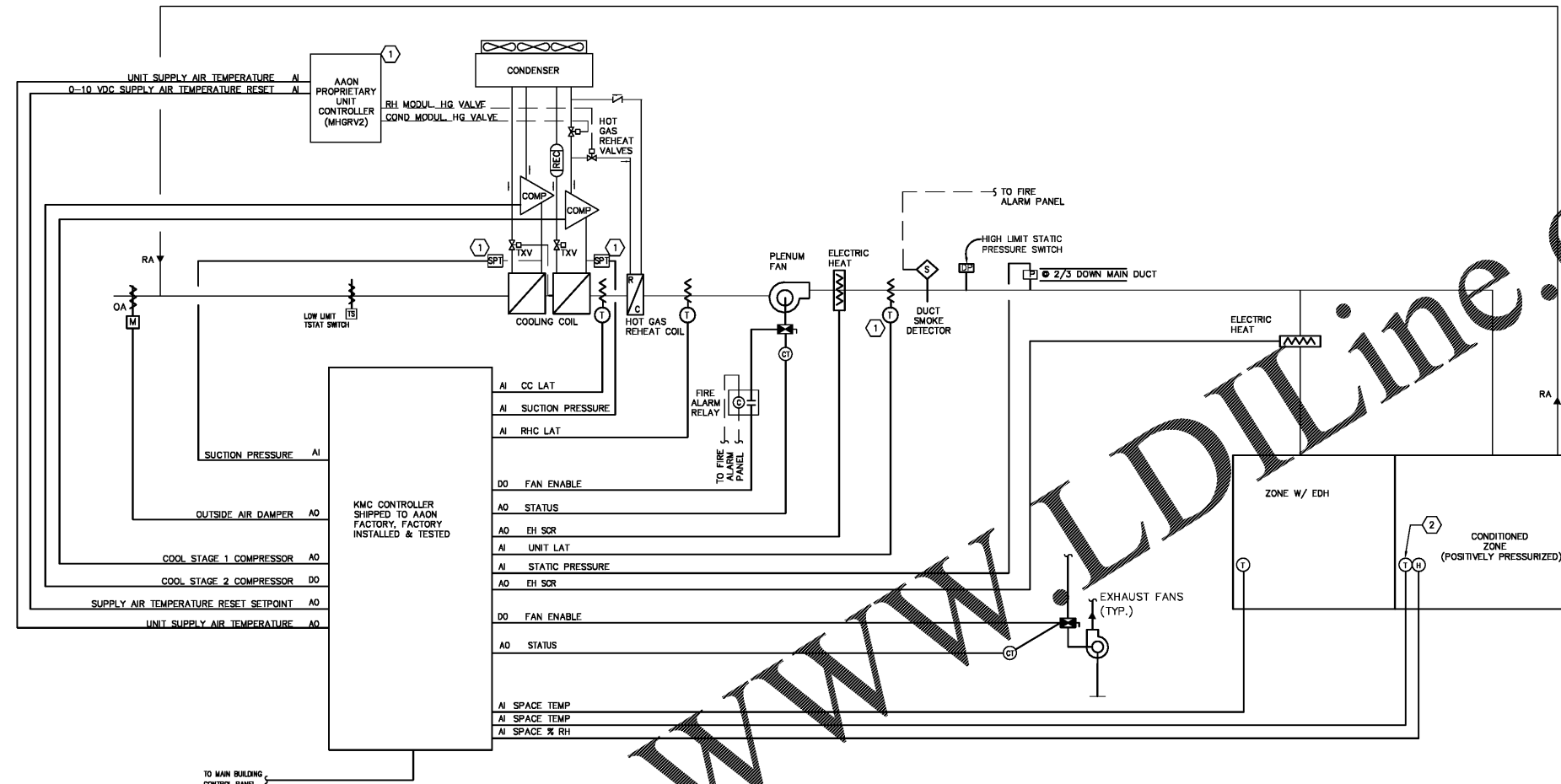


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CONSTANT VOLUME 50% OAU - CONTROL SCHEMATIC AND LOGIC DIAGRAM
SCALE: NONE TYPICAL OF AH-1-1

KEYED NOTES

- EQUIPMENT SHALL BE PROVIDED BY THE AHU MANUFACTURER. ALL WIRING AND FIELD CONNECTIONS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
- PROVIDE ALLOWANCE TO INSTALL UP TO FOUR THERMOSTATS FOR CALCULATION OF THE SYSTEM'S AVERAGE SPACE TEMPERATURE. SUBMIT SHOP DRAWING LAYOUT OF THERMOSTAT LOCATIONS FOR OWNER/ENGINEER REVIEW AND APPROVAL.

REFER TO THE SPECIFICATIONS FOR AON REQUIRED TIME DELAYS, SUCTION PRESSURE SETPOINTS, ETC. AND FURTHER SEQUENCE OF OPERATIONS REQUIREMENTS.

- "HEATING" MODE**
- DE-ENERGIZE COMPRESSORS.
 - MODULATE ELECTRIC HEAT TO MAINTAIN AVERAGE SPACE TEMPERATURE AT SETPOINT (70°F ADJ.).
- "COOLING" MODE**
- MODULATE THE STAGE 1 COMPRESSOR TO MAINTAIN ITS SUCTION PRESSURE SETPOINT OF 128.1 PSIG TO ACHIEVE 85°F LAT OFF COOLING COIL FOR LOADS BETWEEN 0% AND 50% OF AHU CAPACITY.
 - IF STAGE 1 COMPRESSOR IS FULLY LOADED AND COOLING COIL LAT IS GREATER THAN 85°F, CYCLE STAGE 2 COMPRESSOR ON TO MAINTAIN COOLING COIL LEAVING TEMPERATURE AT 85°F.
 - WHEN THE AVERAGE SPACE TEMPERATURE IS 3°F (ADJ.) BELOW SETPOINT 74°F (ADJ.) AND THE COMPRESSOR IS OPERATING AT STAGE 1, MODULATE HOT GAS REHEAT COIL VALVE TO MAINTAIN SUPPLY AIR TEMP AT 73°.
 - FOR ZONES WITH AN ELECTRIC DUCT HEATER: IF THE AVERAGE SPACE TEMPERATURE IS SATISFIED WHILE THE ZONE TEMPERATURE REMAINS 3°F (ADJ.) BELOW SETPOINT 74°F (ADJ.) FOR MORE THAN 15 MINUTES (ADJ.), MODULATE ELECTRIC HEAT TO MAINTAIN SPACE TEMPERATURE AT 70°F (ADJ.).

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FGA PROJECT NUMBER
19039

ISSUE DATE
05-25-20

REVISIONS
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DATE: _____
DATE: _____

SHEET NUMBER
M5.2

MECHANICAL SCHEDULES A1 WTS

05-27-20 Joshua Wicks, 20191919-0000 FGA CPA Fire Station 17Mechanical M5.2, 19039.dwg