

KEYED NOTES

- 1 CONTRACTOR SHALL INSURE THAT THE EXISTING DX COILS LOCATED IN EXISTING AHU-2 ARE THOROUGHLY CLEANED INTERNALLY AND EXTERNALLY BEFORE THE NEW EXPANSION VALVES ARE CONNECTED.
- 2 CONTRACTOR SHALL INSTALL NEW REFRIGERANT EXPANSION VALVES AS REQUIRED FOR THE NEW R-410A REFRIGERANT.
- 3 CONTRACTOR SHALL THOROUGHLY CLEAN THE TWO COPPER REFRIGERANT CIRCUITS RUN IN THE CEILING TO PREPARE THEM FOR THE CONNECTION TO THE NEW CONDENSING UNIT.
- 4 CONTRACTOR SHALL PROVIDE AND INSTALL THE NEW CONDENSING UNIT ACCU-2 TO SUPPORT THE EXISTING AIR HANDLING UNIT AHU-2 LOCATED ON THE FAR SIDE OF THE BUILDING. THE NEW CONDENSING UNIT SHALL BE MOUNTED IN THE EXISTING ENCLOSURE ON THE EXISTING PAD. CONTRACTOR SHALL MODIFY THE PAD AS REQUIRED TO SUPPORT THE NEW UNIT.
- 5 CONTRACTOR SHALL PROVIDE AND INSTALL NEW REFRIGERANT PIPING FROM THE NEW CONDENSING UNIT COMPRESSORS TO THE EXISTING PIPING CONNECTIONS AT THE EXTERIOR WALL. CONTRACTOR SHALL INSURE THAT THE EXISTING REFRIGERANT PIPING HAS BEEN THOROUGHLY CLEANED BEFORE THE CONNECTIONS ARE MADE.
- 6 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-7 IN THE EXISTING 18" X 10" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 7 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-8 IN THE EXISTING 12" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 8 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-9 IN THE EXISTING 14" X 10" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 9 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-10 IN THE EXISTING 14" X 12" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 10 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-11 IN THE EXISTING 12" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.

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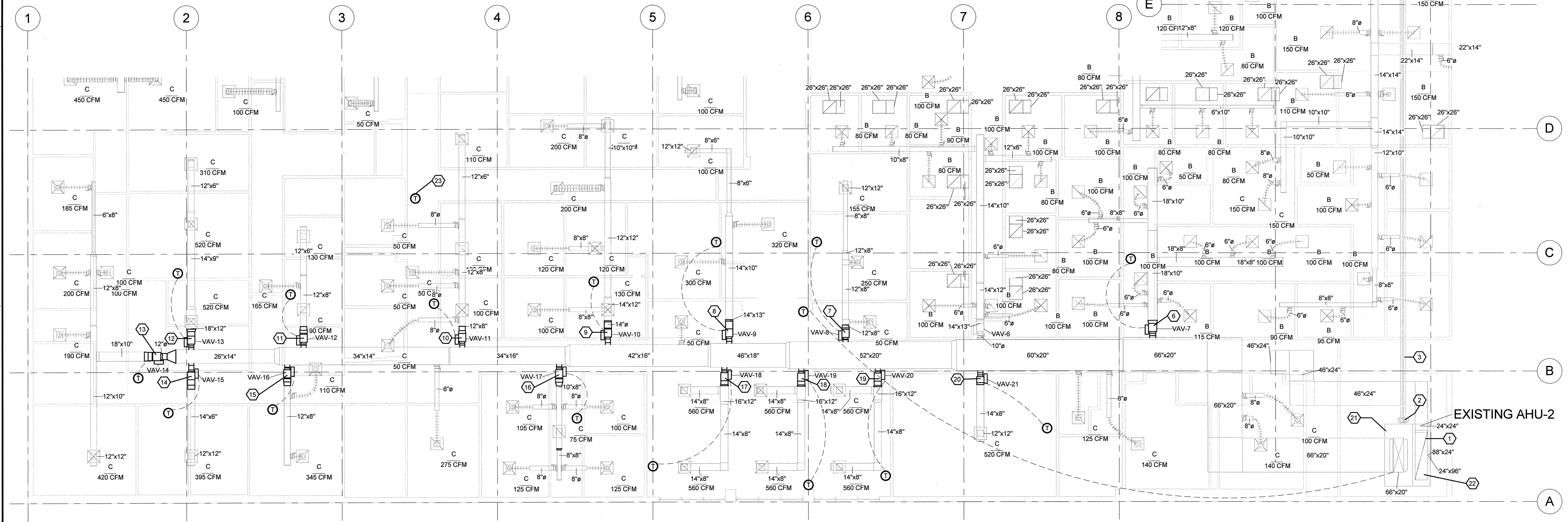
- 11 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-12 IN THE EXISTING 12" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 12 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-13 IN THE EXISTING 18" X 12" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 13 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-14 IN THE EXISTING 18" X 10" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 14 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-15 IN THE EXISTING 14" X 6" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 15 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-16 IN THE EXISTING 12" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 16 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-17 IN THE EXISTING 10" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.

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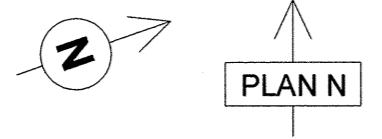
- 17 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-18 IN THE EXISTING 16" X 12" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 18 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-19 IN THE EXISTING 16" X 12" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 19 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-20 IN THE EXISTING 16" X 12" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 20 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW VAV BOX, LABELED VAV-21 IN THE EXISTING 14" X 8" SUPPLY DUCT. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A NEW WIRELESS THERMOSTAT IN THE CONTROLLED AREA TO OPERATE THE NEW BOX. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE OWNER.
- 21 EXISTING AIR HANDLING UNITS WILL REQUIRE THE INSTALLATION OF A VARIABLE FREQUENCY DRIVE ON THE FAN MOTOR AND A DIFFERENTIAL PRESSURE SENSOR APPROXIMATELY 2/3 DOWN THE LENGTH OF THE DUCT TO ALLOW THE AHU'S TO EFFECTIVELY RESPOND TO THE CHANGING AIR FLOW REQUIREMENTS IN THE SYSTEM DUE TO THE INSTALLATION OF THE VAV BOXES. AHU-1 WILL REQUIRE A VFD SIZED FOR A 10 HP MOTOR AND AHU-2 SIZED FOR A 15 HP MOTOR. THE EXISTING ELECTRICAL POWER CONNECTIONS FOR EACH OF THESE UNITS MUST BE MODIFIED TO INCORPORATE THE NEW VFD'S INTO THE SYSTEM. REFER TO DETAIL SHEET "M-6" FOR DATA SHEETS DESCRIBING THE VFD UNITS. THE CONTRACTOR SHALL PROVIDE A LINE ITEM PRICE FOR INSTALLING THE VFD'S AND PRESSURE SENSORS AS PART OF THIS PROJECT.
- 22 OUTSIDE AIR IS DELIVERED TO THE TWO EXISTING AIR HANDLING UNITS THROUGH AN 18"X18" OUTSIDE AIR DUCT CONNECTED TO AN OUTSIDE AIR INTAKE HOOD ON THE ROOF. THE VOLUME OF OUTSIDE AIR BROUGHT INTO THE UNIT IS CURRENTLY CONTROLLED BY A MANUAL DAMPER. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW AUTOMATED DAMPER TO AUTOMATICALLY CONTROL THE FLOW OF OUTSIDE AIR TO EACH AHU UNIT. THESE TWO NEW DAMPER CONTROLS MUST BE TIED TO THE EXISTING BUILDING AUTOMATION SYSTEM.
- 23 CONTRACTOR SHALL RELOCATE THE EXISTING MASTER THERMOSTAT FOR EXISTING AIR HANDLING UNIT AHU-2 TO A NEW CENTRAL LOCATION WITHIN THE AREA SERVED BY THE AHU. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE THERMOSTAT WITH THE BUILDING ENGINEER.

NEW ACCU-2

EXISTING ACCU-1



1 PARTIAL MECHANICAL PLAN
HVAC 1/8" = 1'-0"

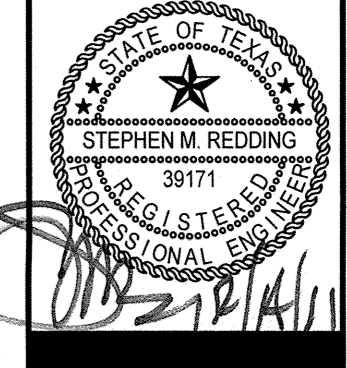


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**REDDING
LINDEN
BURR**
TEXAS REGISTERED ENGINEERING FIRM E-3113



PROJECT NUMBER	11398.00
DRAWN BY	JJP
CHECKED BY	SMR
SHEET DATE	12/14/2011
MECHANICAL PLANS	

M-3.0

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