

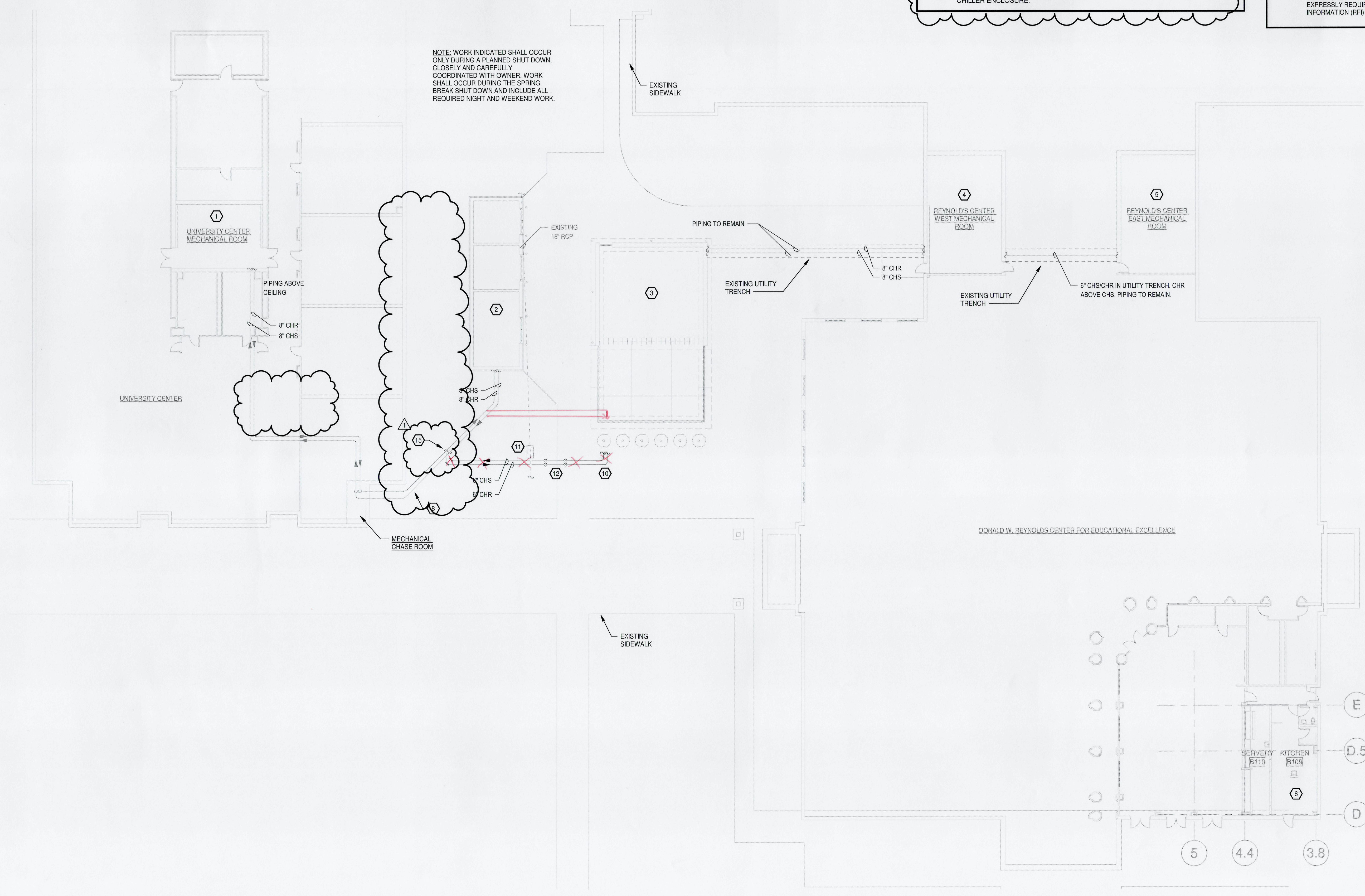
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- ### HVAC KEYED NOTES
- ① SEE SHEET MD.01, DETAIL #3 FOR DEMOLITION WORK, AND SHEET M1.01, DETAIL #3 FOR NEW WORK.
 - ② SEE DETAIL 2, SHEET M1.02 FOR WORK ASSOCIATED WITH EXISTING CHILLER.
 - ③ EXISTING CHILLER ENCLOSURE. SEE SHEET M1.02 FOR DEMOLITION OF EXISTING CHILLERS AND INSTALLATION OF NEW CHILLERS.
 - ④ SEE SHEET MD.01, DETAIL #1 FOR DEMOLITION WORK, AND SHEET M1.01 DETAIL #1 FOR NEW WORK.
 - ⑤ SEE SHEET MD.01, DETAIL #2 FOR DEMOLITION WORK, AND SHEET M1.01 DETAIL #2 FOR NEW WORK.
 - ⑥ SEE SHEET M1.04 FOR DEMOLITION AND NEW WORK.
 - ⑦ NOT USED.
 - ⑧ EXISTING UNDERGROUND 8" CHS/CHR. ABANDON IN PLACE.
 - ⑨ RUN NEW 6" CHS/CHR JUST UNDER EXISTING 8" CHS/CHR. TEE FROM NEW PIPING INTO EXISTING AS SHOWN. GAP EXISTING LINES WHERE SHOWN.
 - ⑩ NEW UNDERGROUND 6" CHS/CHR. RUN WITH TOP MINIMUM 3'-0" BELOW GRADE.
 - ⑪ EXISTING 2x4 DRAIN INLET. TOP ELEVATION AT 211.50 FT. FLOW LINE AT 206.83 FT.
 - ⑫ DROP NEW 6" CHS/CHR UNDER EXISTING 18" RCP. PROVIDE MINIMUM 18" CLEARANCE BETWEEN TOP OF CHILLER WATER PIPE AND BOTTOM OF 18" RCP. BOTTOM OF 18" RCP CROSSING APPROXIMATELY AT ELEVATION 206.83 FT. FILES VERIFY LOCATION OF EXISTING RCP CROSSINGS.
 - ⑬ NOT USED.
 - ⑭ NOT USED.
 - ⑮ DROP 6" CHS/CHR FROM BOTTOM OF EXISTING 8" CHS/CHR AND EXTEND TO NEW CHILLER ENCLOSURE.

- ### HVAC GENERAL NOTES
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, EQUIPMENT, AND OTHER MECHANICAL SYSTEM COMPONENTS TO REMAIN.
 2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, AND EQUIPMENT.
 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING EQUIPMENT AND PIPING SHOWN ON THESE PLANS WHERE CONNECTIONS ARE TO BE MADE.
 4. CONSTRUCTION SHALL TAKE PLACE WHILE THE BUILDING IS OCCUPIED. COORDINATE CONSTRUCTION TO MINIMIZE IMPACT TO BUILDING OCCUPANTS. CONTRACTOR SHALL PROVIDE NECESSARY TEMPORARY SERVICES FOR PORTIONS OF THE BUILDINGS EXISTING HVAC, PLUMBING, AND/OR SPRINKLER SERVICES REQUIRED TO REMAIN IN OPERATION. CONTRACTOR IS REQUIRED TO SCHEDULE IN WRITING PRIOR TO ANY SHUT DOWN OF THESE SYSTEMS.
 5. ALL EXTERIOR PIPING SUSCEPTIBLE TO FREEZING INCLUDING CHILLED WATER, CONDENSER WATER, TOWER MAKE-UP WATER, DRAIN PIPING, AND CONDENSATE PIPING SHALL BE HEAT TRACED AT 5 WATTS/LINEAR FOOT. REFRIGERANT PIPING SHALL BE INSULATED WITH 1" FIBERGLASS INSULATION WITH 100% ALUMINUM JACKET. PROVIDE U.V. RESISTANT PROTECTIVE ARMAFLEX COATING ON EXPOSED ARMAFLEX INSULATION.
 6. SCREEN OFF ALL AREAS WHERE CONSTRUCTION IS TO TAKE PLACE FROM AREAS TO REMAIN INHABITED. PLACE "CAUTION - CONSTRUCTION IN PROGRESS" SAFETY SIGNS AROUND DESIGNATED AREAS. INHABITED AREAS SHALL REMAIN DUST & DEBRIS FREE DURING CONSTRUCTION. CLEAN ANY AREAS OUTSIDE DESIGNATED CONSTRUCTION AREA WHICH MAY HAVE BECOME SOILED DUE TO CONSTRUCTION.
 7. REFER TO SEQUENCES OF OPERATION FOR EQUIPMENT OPERATION CONTROLS.
 8. WHERE CONFLICTS OCCUR BETWEEN PLANS AND SPECIFICATIONS, VERIFY WITH ARCHITECT/ENGINEER FOR CLARIFICATIONS.
 9. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND PIPING. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTINGS, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS.

NOTE: WORK INDICATED SHALL OCCUR ONLY DURING A PLANNED SHUT DOWN, CLOSELY AND CAREFULLY COORDINATED WITH OWNER. WORK SHALL OCCUR DURING THE SPRING BREAK SHUT DOWN AND INCLUDE ALL REQUIRED NIGHT AND WEEKEND WORK.



1 SITE PLAN - HVAC
SCALE: 1/16" = 1'-0"

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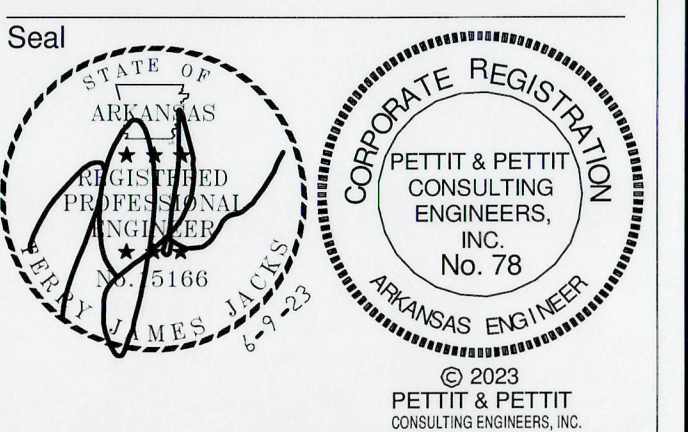
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CONSTRUCTION DOCUMENTS



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PR #3		10-13-23

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Date ASUMCH23.00
Title 06.09.23

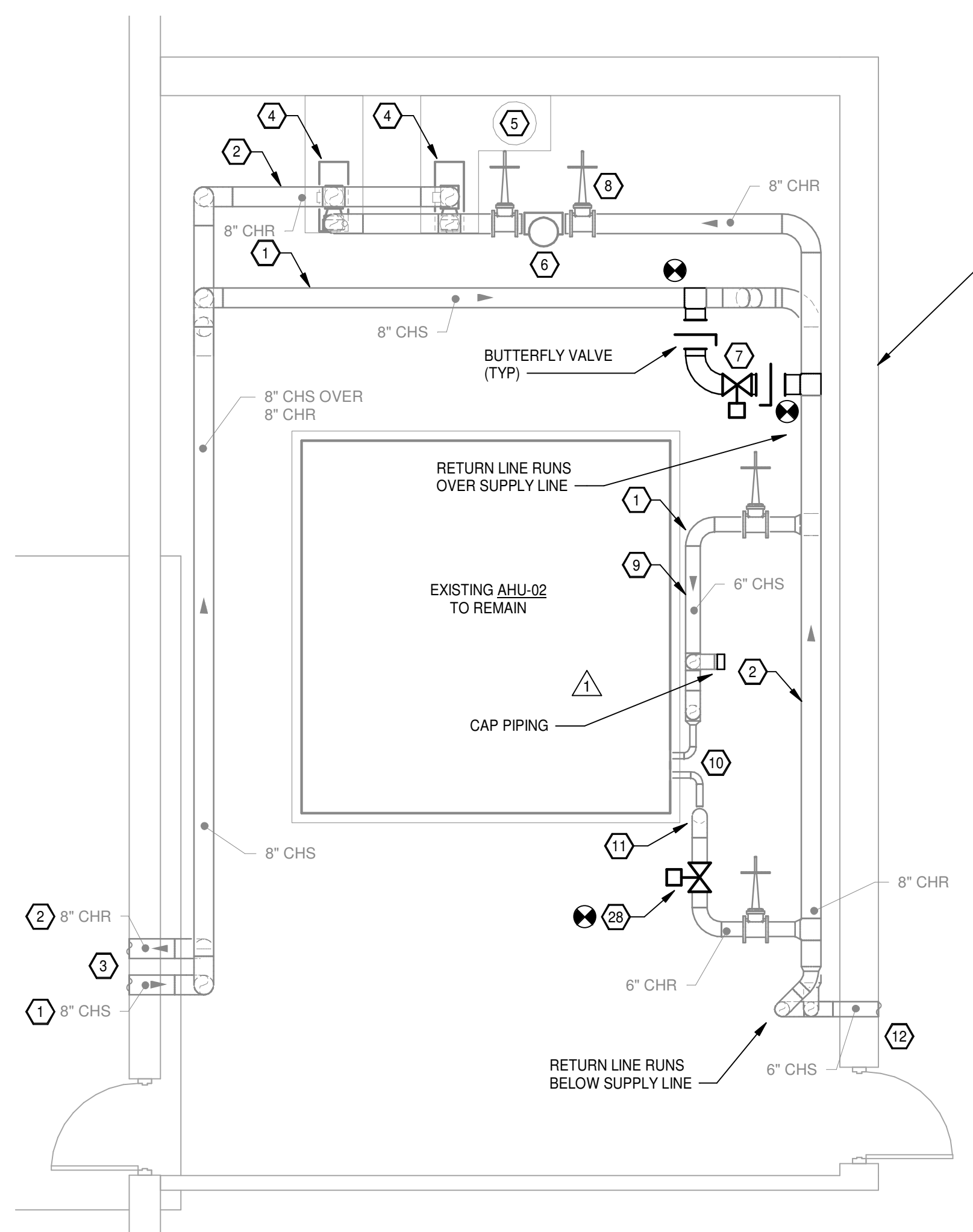
SITE PLAN - HVAC
Sheet No.
M0.01

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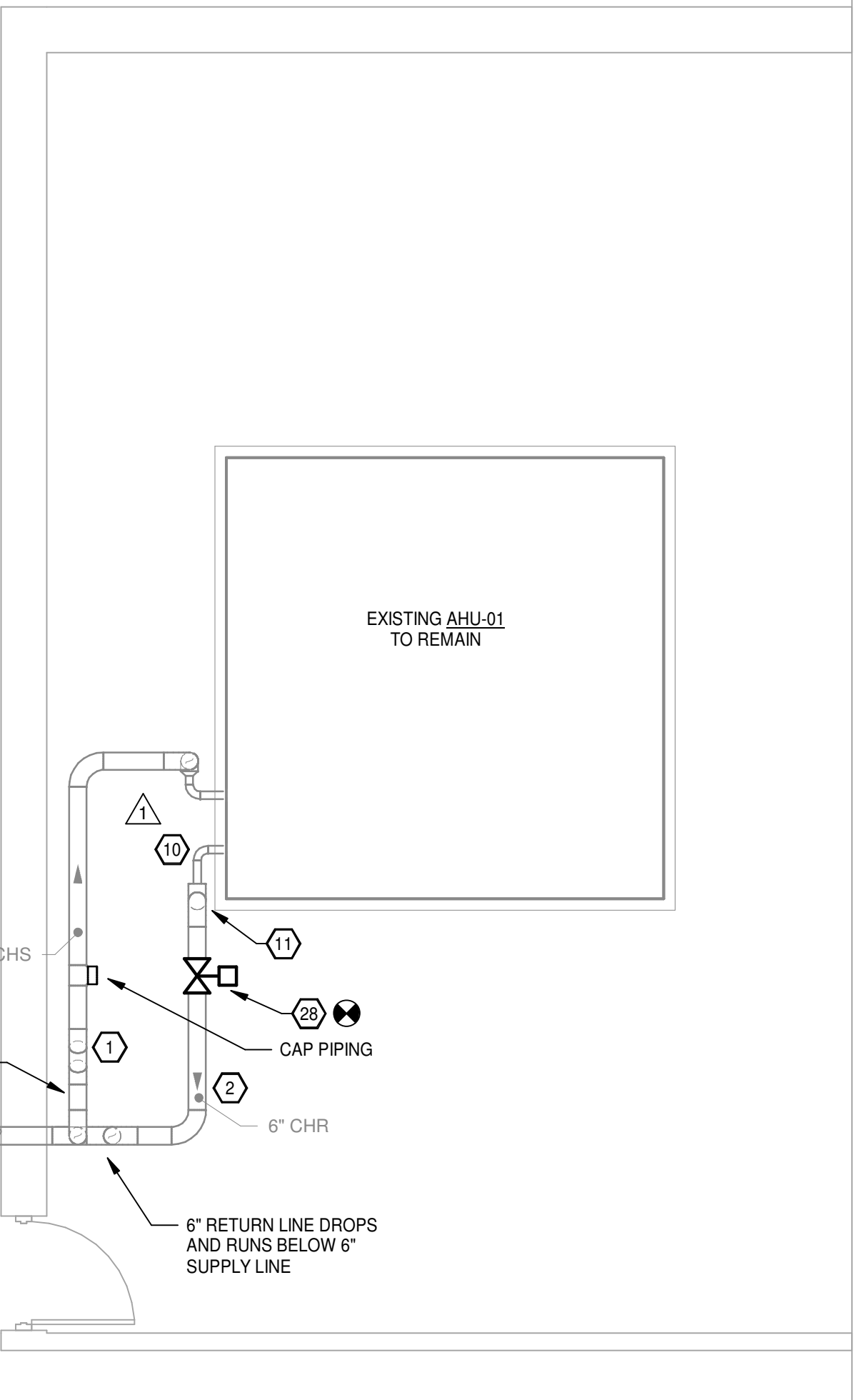
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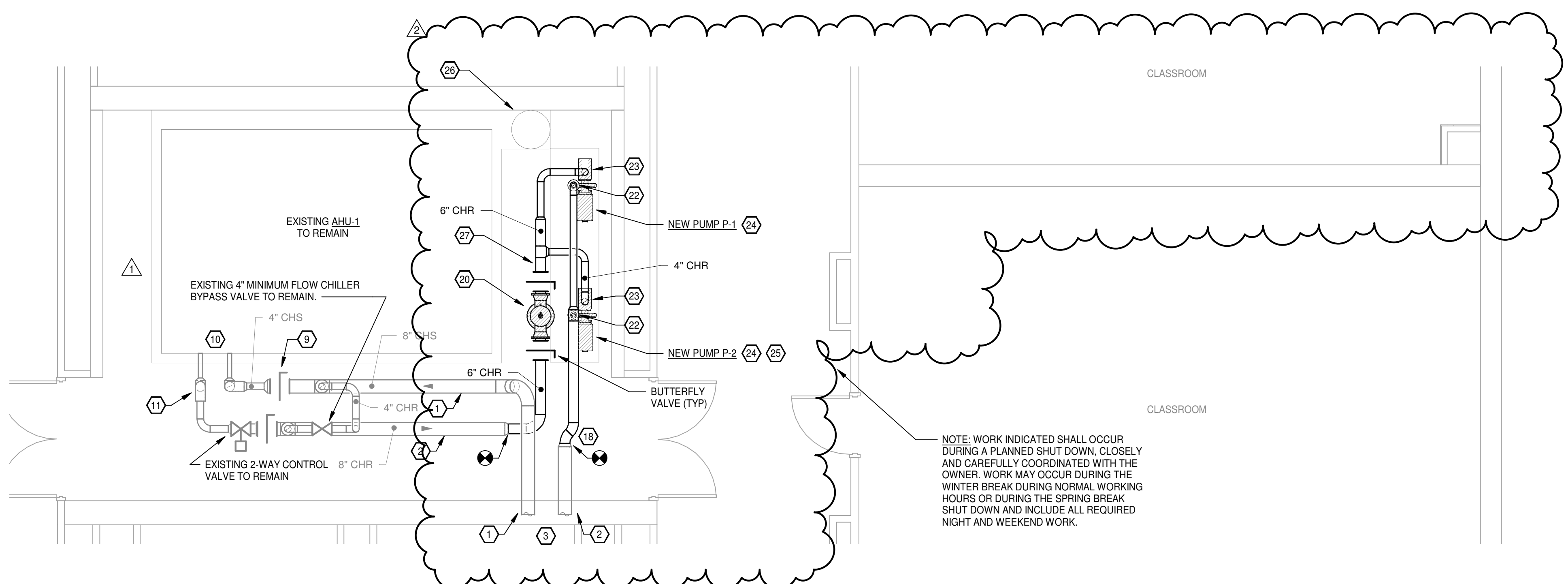
NOTE: WORK INDICATED SHALL OCCUR DURING A PLANNED SHUT DOWN, CLOSELY AND CAREFULLY COORDINATED WITH THE OWNER. WORK MAY OCCUR DURING THE WINTER BREAK DURING NORMAL WORKING HOURS OR DURING THE SPRING BREAK SHUT DOWN AND INCLUDE ALL REQUIRED NIGHT AND WEEKEND WORK.



- ### HVAC KEYED NOTES
- 1 EXISTING CHS TO REMAIN.
 - 2 EXISTING CHR TO REMAIN.
 - 3 EXISTING CHS/CHR PIPING FROM AHU TO CHILLERS TO REMAIN.
 - 4 EXISTING PUMP TO REMAIN. REPLACE EXISTING 10HP MOTOR WITH NEW INVERTER DUTY MOTOR, WITH GROUNDING RING.
 - 5 EXISTING EXPANSION TANK TO REMAIN.
 - 6 EXISTING AIR SEPARATOR TO REMAIN.
 - 7 PROVIDE NEW 6" MINIMUM FLOW CHILLER BYPASS WITH CONTROL VALVE.
 - 8 EXISTING GATE VALVE TO REMAIN (TYP).
 - 9 EXISTING Y-STRAINER TO REMAIN (TYP).
 - 10 AHU COIL CONSISTS OF 3 STAGE COILS EACH PIPED TO THE RETURN AND SUPPLY VERTICAL HEADERS. PIPING TO REMAIN.
 - 11 VERTICAL CHILLED WATER RETURN HEADER TO REMAIN.
 - 12 6" CHS/CHR TO AHU-1 IN WEST MECHANICAL ROOM IN UTILITY TUNNEL.
 - 13 6" CHS/CHR FROM AHU-2 IN EAST MECHANICAL ROOM IN UTILITY TUNNEL.
 - 14 NOT USED.
 - 15 NOT USED.
 - 16 NOT USED.
 - 17 NOT USED.
 - 18 CONNECT TO EXISTING CHR AT EXISTING REDUCER.
 - 19 BUTTERFLY VALVE (TYP).
 - 20 NEW AIR/DIRT SEPARATOR, SPIROTHERM VDN600 WITH SPIROTOP AIR VENT.
 - 21 NOT USED.
 - 22 4" DISCHARGE FROM PUMP. CONNECT TO 6" CHR.
 - 23 DROP NEW 4" CHR TO SUCTION DIFFUSER AT PUMP.
 - 24 RIGIDLY MOUNT NEW PUMP TO EXISTING CONCRETE PAD.
 - 25 RETAIN EXISTING CHEMICAL FEEDER AND RE-INSTALL. PIPE ACROSS SUCTION AND DISCHARGE PIPING OF PUMP P-2 WITH 3/4" PIPING AND BALL VALVES.
 - 26 EXISTING EXPANSION TANK. RE-CONNECT WITH 3/4" PIPING AND BALL VALVE TO PIPING JUST DOWNSTREAM OF NEW AIR SEPARATOR.
 - 27 RE-CONNECT EXISTING 3/4" MAKE-UP WATER LINE WITH BALL VALVE TO 6" CHR LINE JUST DOWNSTREAM OF NEW AIR SEPARATOR AND BEFORE 4" TAKE OFF TO PUMP P-2.
 - 28 PROVIDE NEW 2-WAY CONTROL VALVE.

1 REYNOLD'S CENTER WEST MECH ROOM PLAN - HVAC
SCALE: 1/4" = 1'-0"

2 REYNOLD'S CENTER EAST MECH ROOM PLAN - HVAC
SCALE: 1/4" = 1'-0"



NOTE: WORK INDICATED SHALL OCCUR DURING A PLANNED SHUT DOWN, CLOSELY AND CAREFULLY COORDINATED WITH THE OWNER. WORK MAY OCCUR DURING THE WINTER BREAK DURING NORMAL WORKING HOURS OR DURING THE SPRING BREAK SHUT DOWN AND INCLUDE ALL REQUIRED NIGHT AND WEEKEND WORK.

3 UNIVERSITY CENTER MECH ROOM PLAN - HVAC
SCALE: 1/4" = 1'-0"

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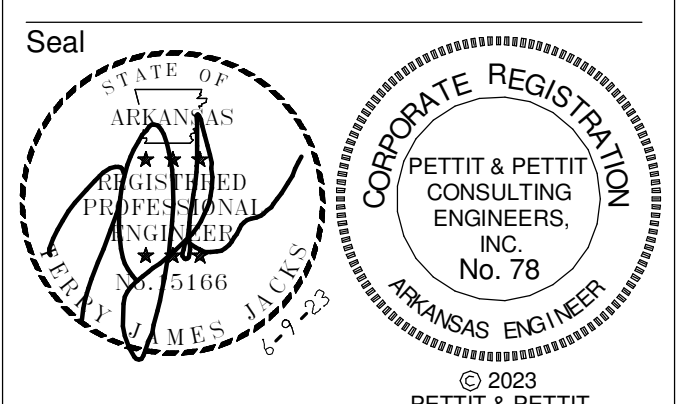
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No.	Issue	Date
AS1 #1		08-17-23
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Title 06.09.23

FLOOR PLANS - HVAC

Sheet No. _____
M1.01

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Project Name: Autodesk Docs:ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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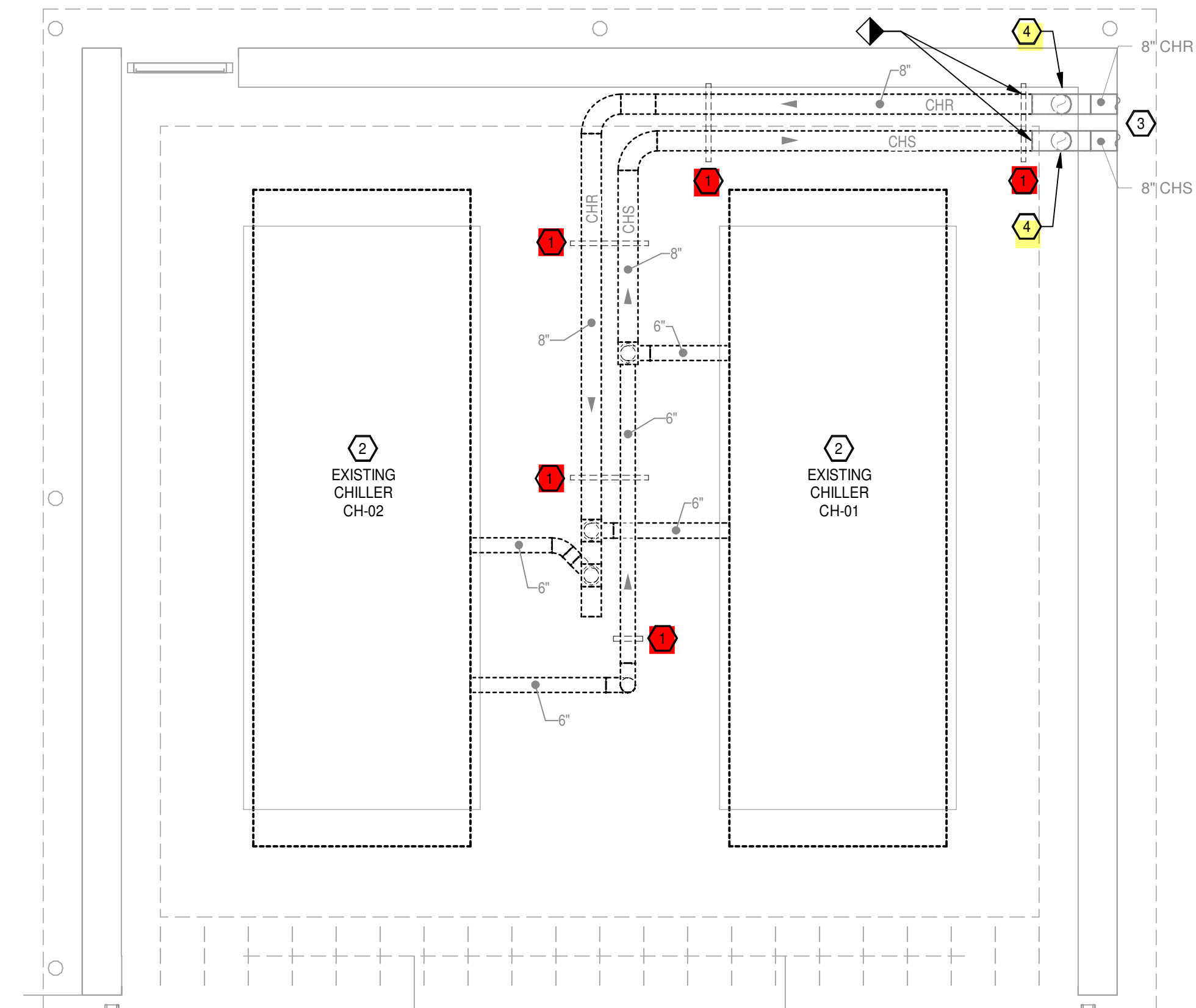
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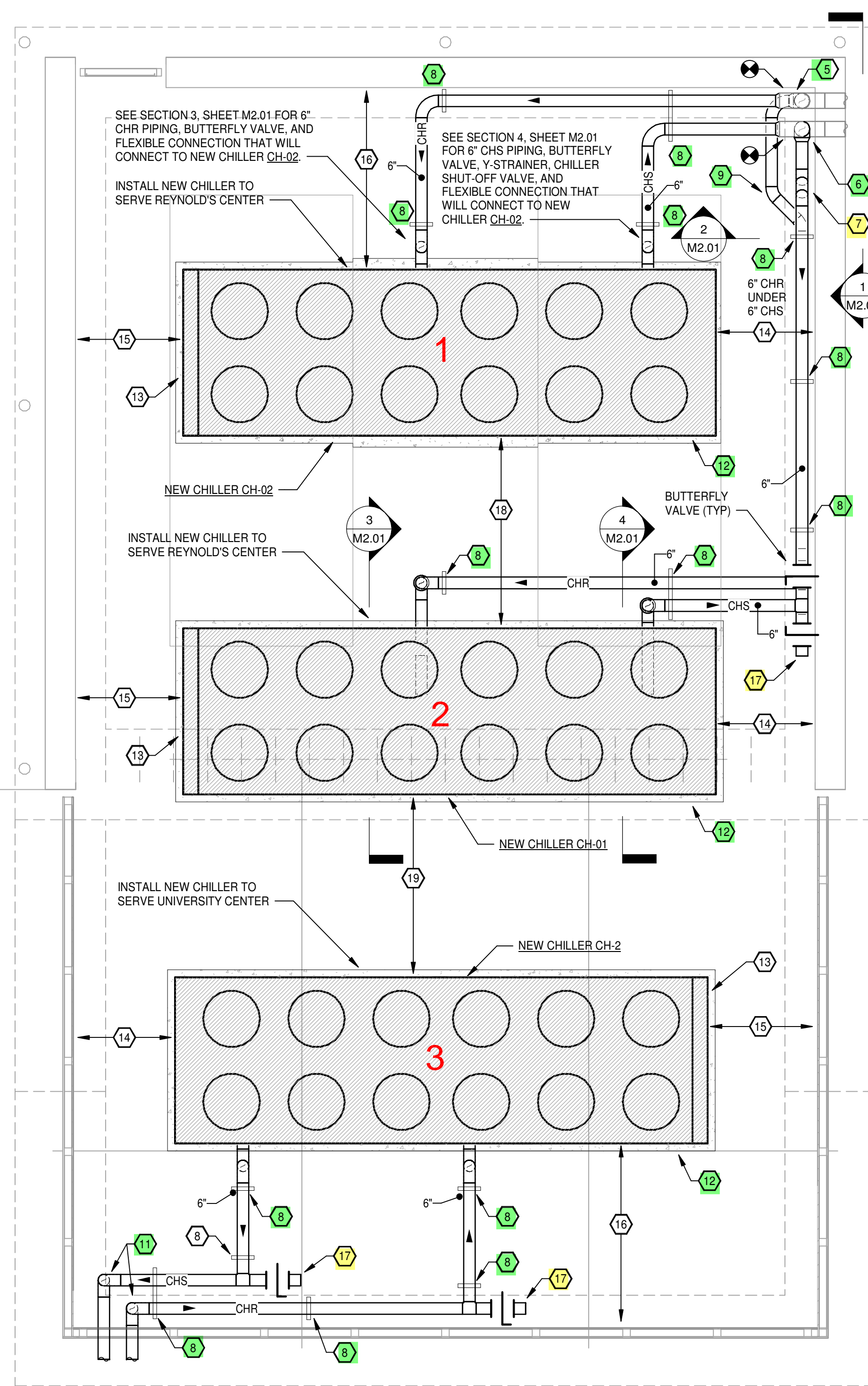
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HVAC KEYED NOTES

- 1 REMOVE EXISTING PIPE SUPPORT.
- 2 REMOVE EXISTING CHILLER COMPLETE, INCLUDE ASSOCIATED PIPING, ELECTRICAL SERVICE, AND CONTROLS.
- 3 EXISTING 8" CHS/CHR DROPS DOWN BELOW GRADE. PIPING EXTENDS TO BUILDING AIR HANDLING UNITS.
- 4 EXISTING 8" CHS/CHR RISERS TO BE RE-WORKED. SEE DETAIL #3 THIS SHEET.
- 5 INSTALL NEW 8x8x6 TEE JUST BELOW THE TOP OF THE EXISTING 8" CHR. EXTEND 6" BRANCH LEG WITH ELBOW TO THE SOUTH.
- 6 JUST BELOW ELBOW AT TOP OF EXISTING 8" CHS RISER, INSTALL TEE IN RISER WITH 6" BRANCH LEG RUNNING SOUTH.
- 7 OFFSET NEW 6" CHS UP TO WHERE TOP OF PIPE IS, JUST BELOW THE EXISTING ENCLOSURE WALL. EXTEND PIPING TO CONNECTION AT NEW CHILLER CH-01. SEE SECTION VIEWS ON SHEET M2.01.
- 8 LOCATION FOR NEW PIPE SUPPORT(S). SEE DETAILS.
- 9 OFFSET 6" CHR TO THE EAST TO RUN JUST UNDER THE NEW 6" CHS LINE. EXTEND PIPING TO CONNECTION AT NEW CHILLER CH-01. SEE SECTION ON SHEET M2.01.
- 10 INSTALL NEW 8" SHUT-OFF CONTROL VALVE IN EXISTING CHILLER RETURN LINE DOWNSTREAM OF EXISTING BUTTERFLY VALVE.
- 11 DROP DOWN THROUGH FLOOR AND RUN UNDERGROUND TO UNIVERSITY CENTER. RUN PIPING WITH TOP AT MINIMUM OF 2'-6" BELOW GRADE. SEE SHEET M0.01 FOR CONTINUATION.
- 12 INSTALL NEW CHILLER ON CONCRETE PAD. PAD HEIGHT TO BE MINIMUM 11" IN ORDER THAT TOP OF CHILLER FANS ARE EQUAL TO OR ABOVE TOP OF ENCLOSURE WALL. MOUNT CHILLER ON CONCRETE PAD WITH FACTORY SUPPLIED ELASTOMERIC PADS.
- 13 CONTROL PANEL END.
- 14 4'-0" MINIMUM CLEARANCE.
- 15 4'-9" MINIMUM CLEARANCE.
- 16 8'-0.5" MINIMUM CLEARANCE.
- 17 STUB OUT 8" CHS/CHR WITH REMOVABLE END CAP FOR FUTURE FIRE HOSE CONNECTION.
- 18 8'-6" MINIMUM CLEARANCE.
- 19 8'-1" MINIMUM CLEARANCE.



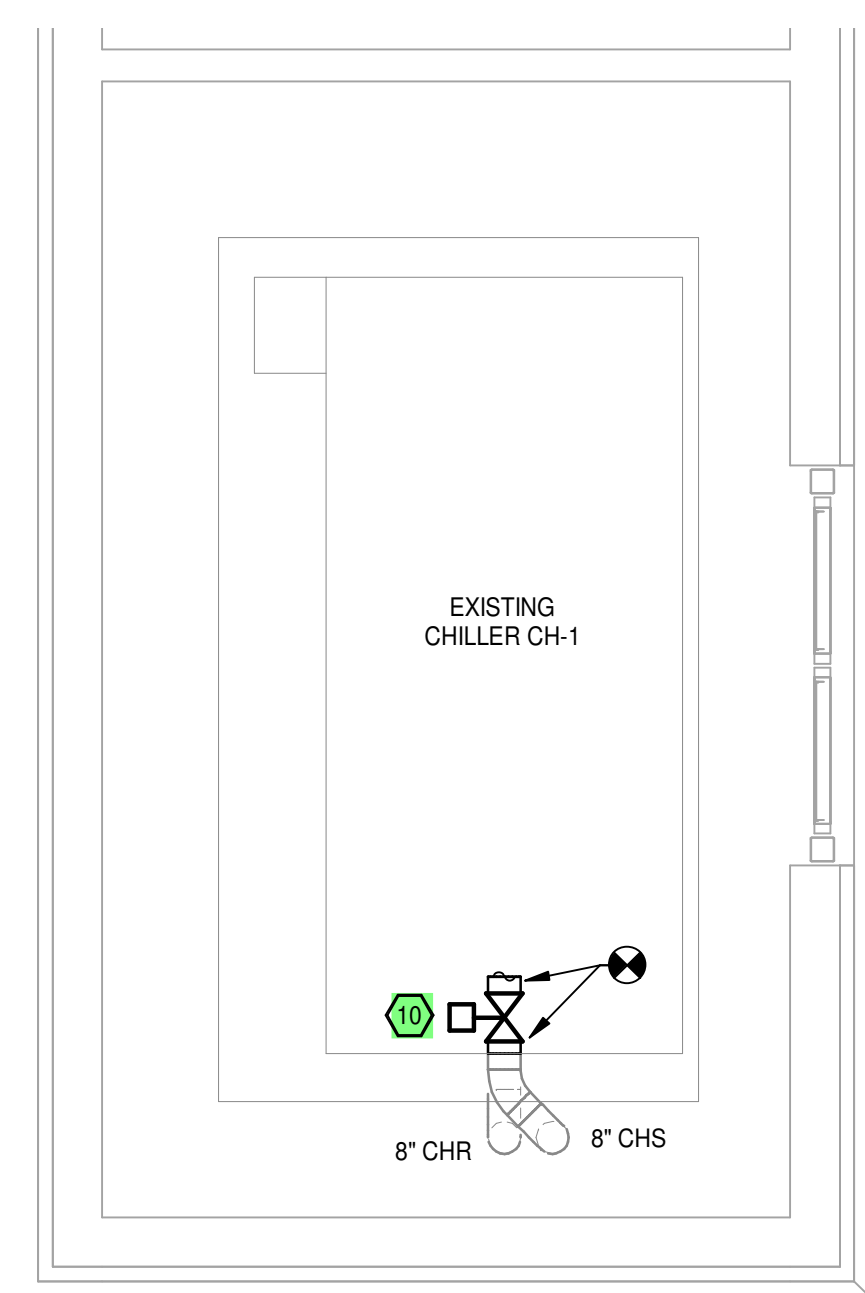
1 REYNOLD'S CENTER - CHILLER DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



3 REYNOLD'S CENTER - CHILLER HVAC PLAN
SCALE: 1/4" = 1'-0"

NOTE: ALL NEW EXTERIOR CHILLED WATER PIPING SHALL BE HEAT TRACED REFER TO DETAIL #1, SHEET M0.01.

NOTE: WORK INDICATED SHALL OCCUR ONLY DURING A PLANNED SHUT DOWN, CLOSELY AND CAREFULLY COORDINATED WITH THE OWNER. WORK SHALL OCCUR DURING THE SPRING BREAK SHUT DOWN AND INCLUDE ALL REQUIRED NIGHT AND WEEKEND WORK.

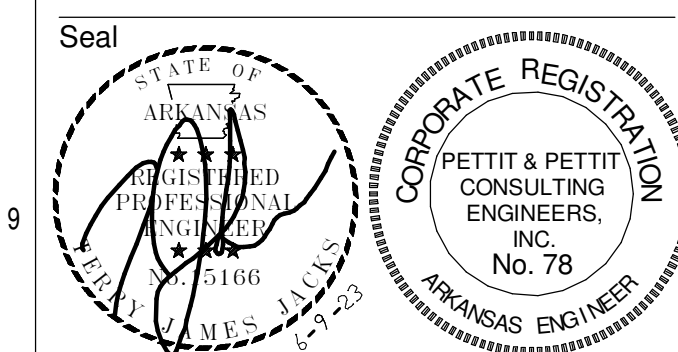


2 EXISTING CHILLER DEMOLITION HVAC PLAN
SCALE: 1/4" = 1'-0"

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CHILLER PLANS
Sheet No. **M1.02**

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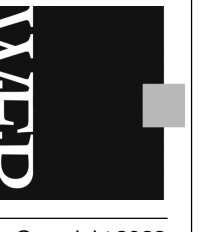
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ADDENDUM #3**



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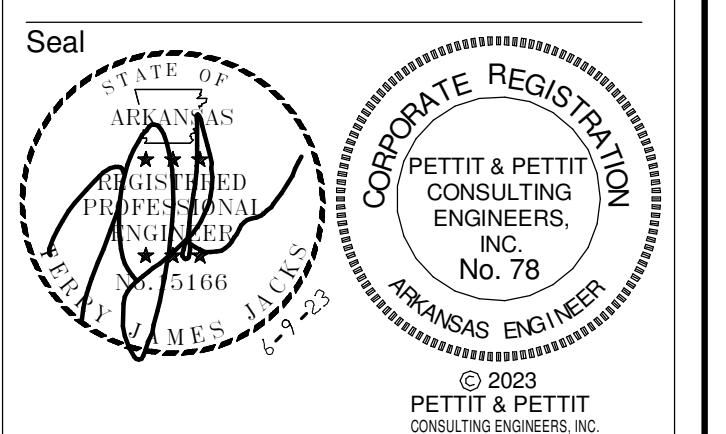
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**CHILLER PLANS -
PHASE 2**

Sheet No.
M1.03

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Project Name: Autodesk/ASU Mid-South RIC & UC Chiller Replacement/1623-018 ASU Mid-South Chiller Replacement (R22 Pettit Central).xd
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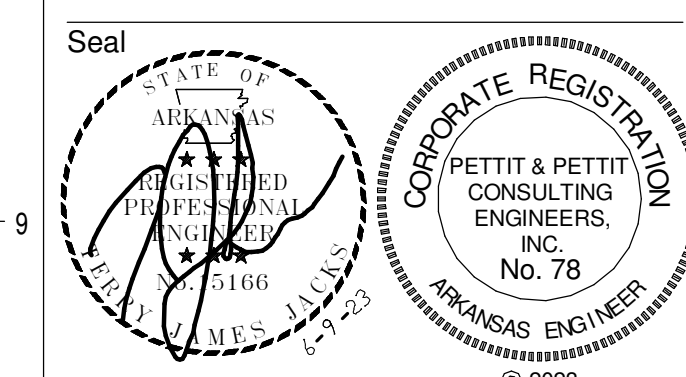
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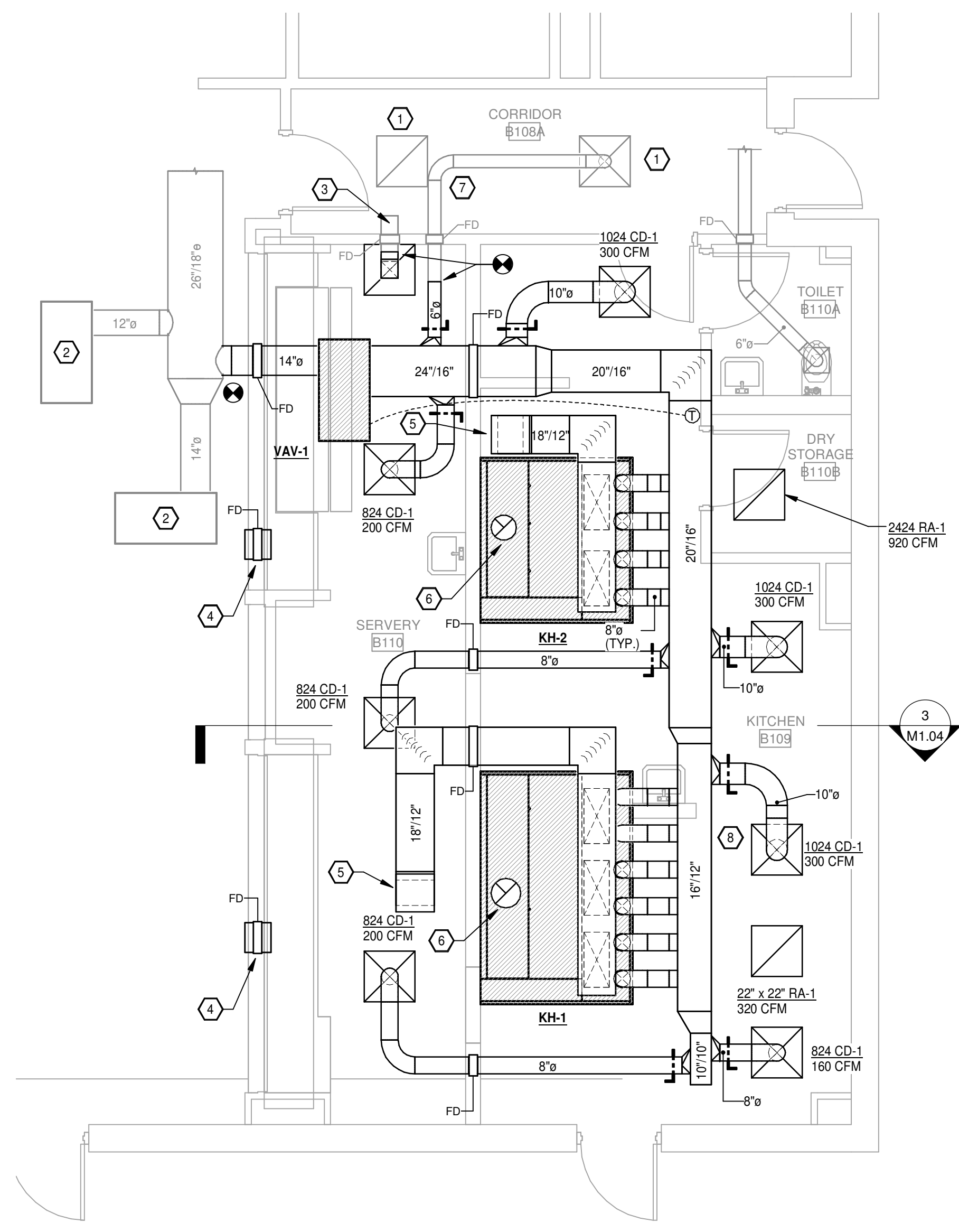
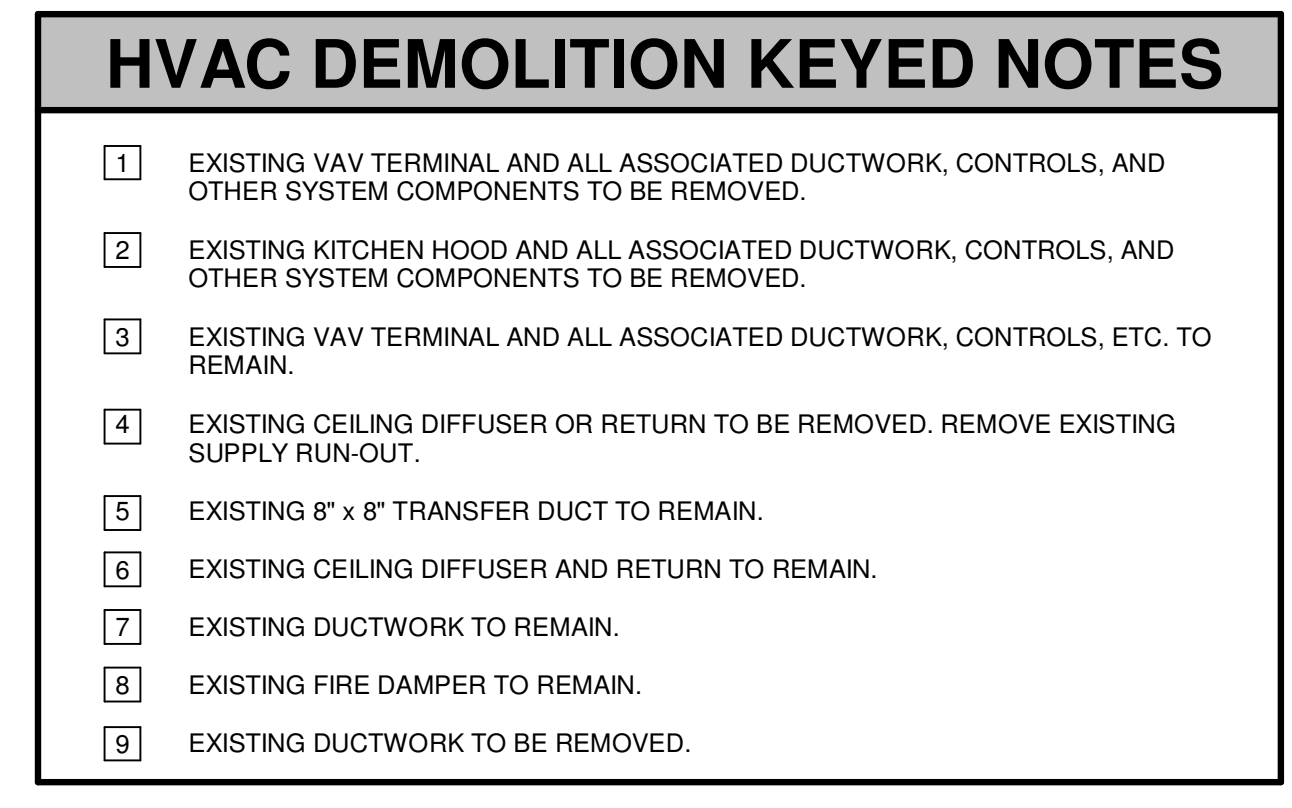
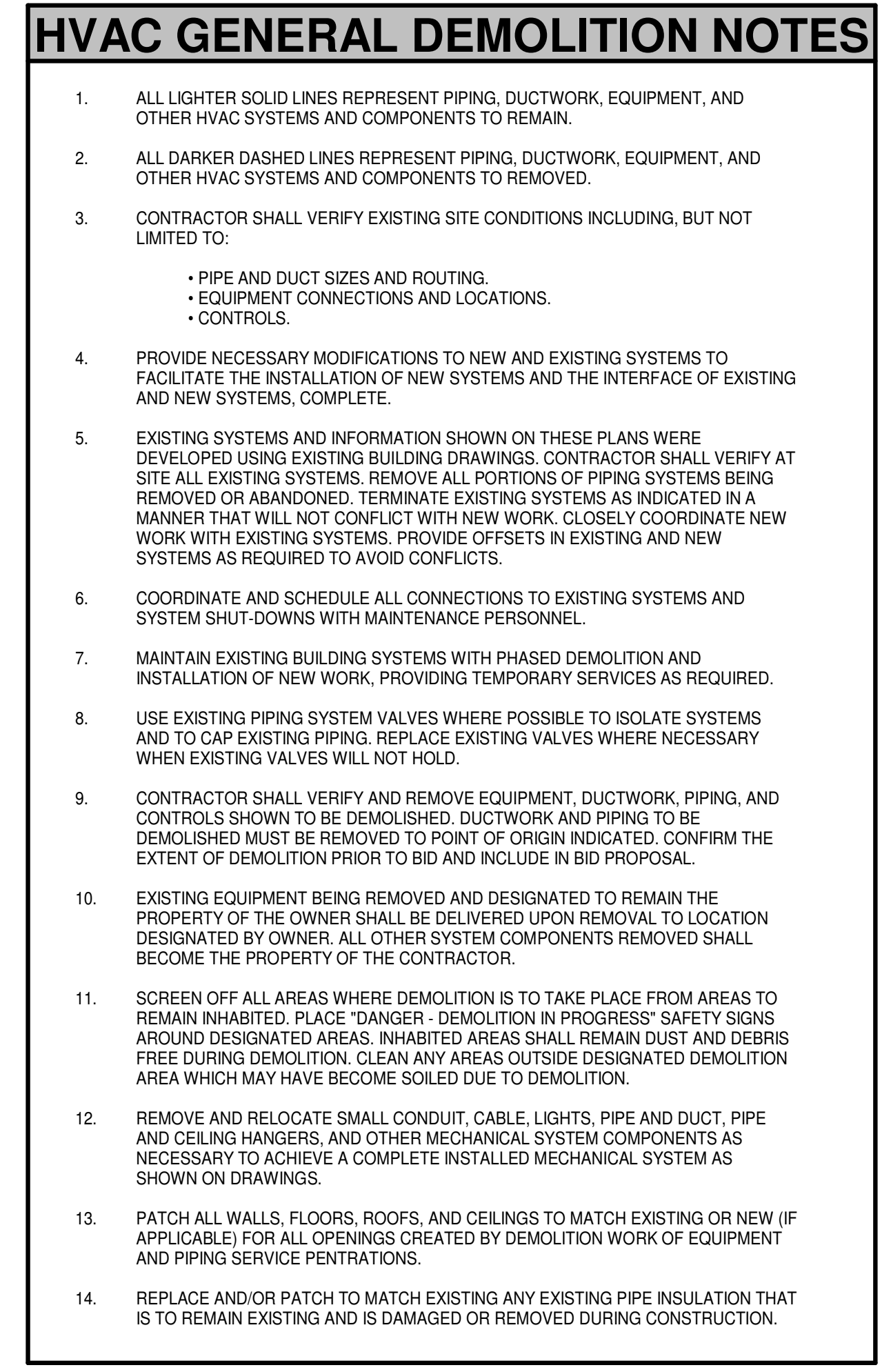
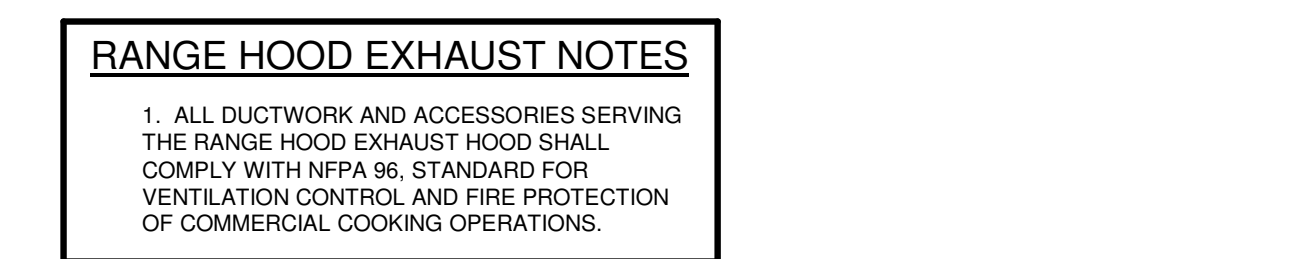
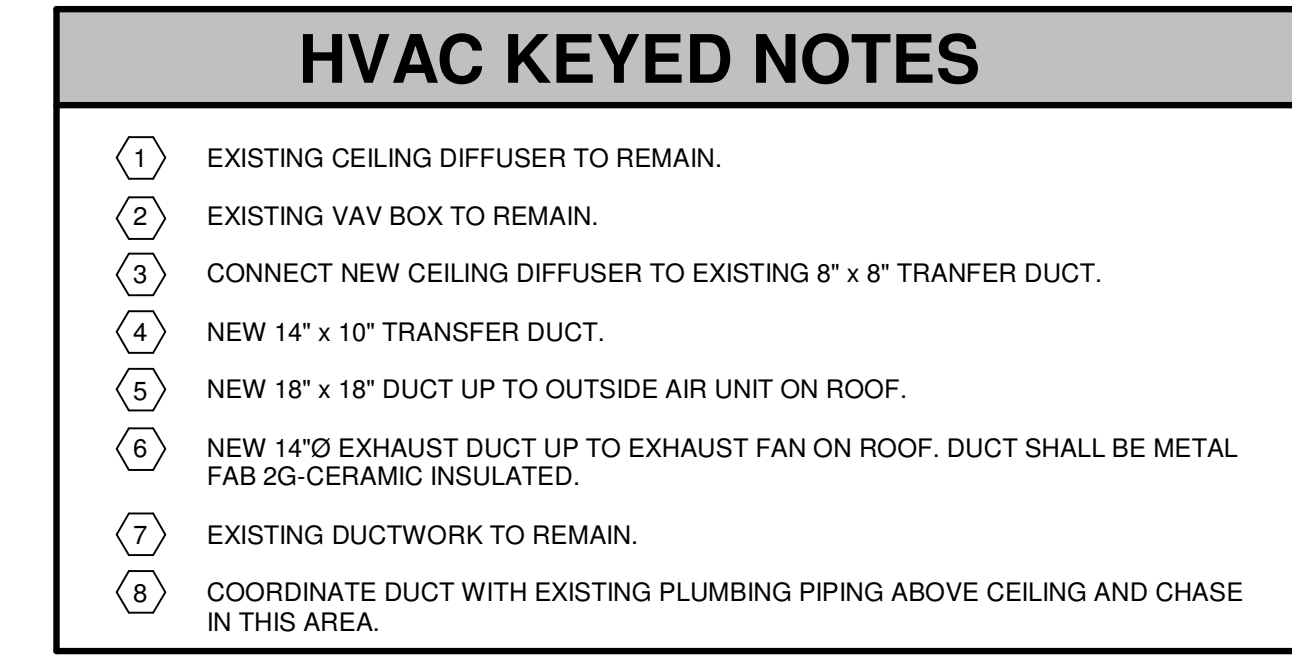
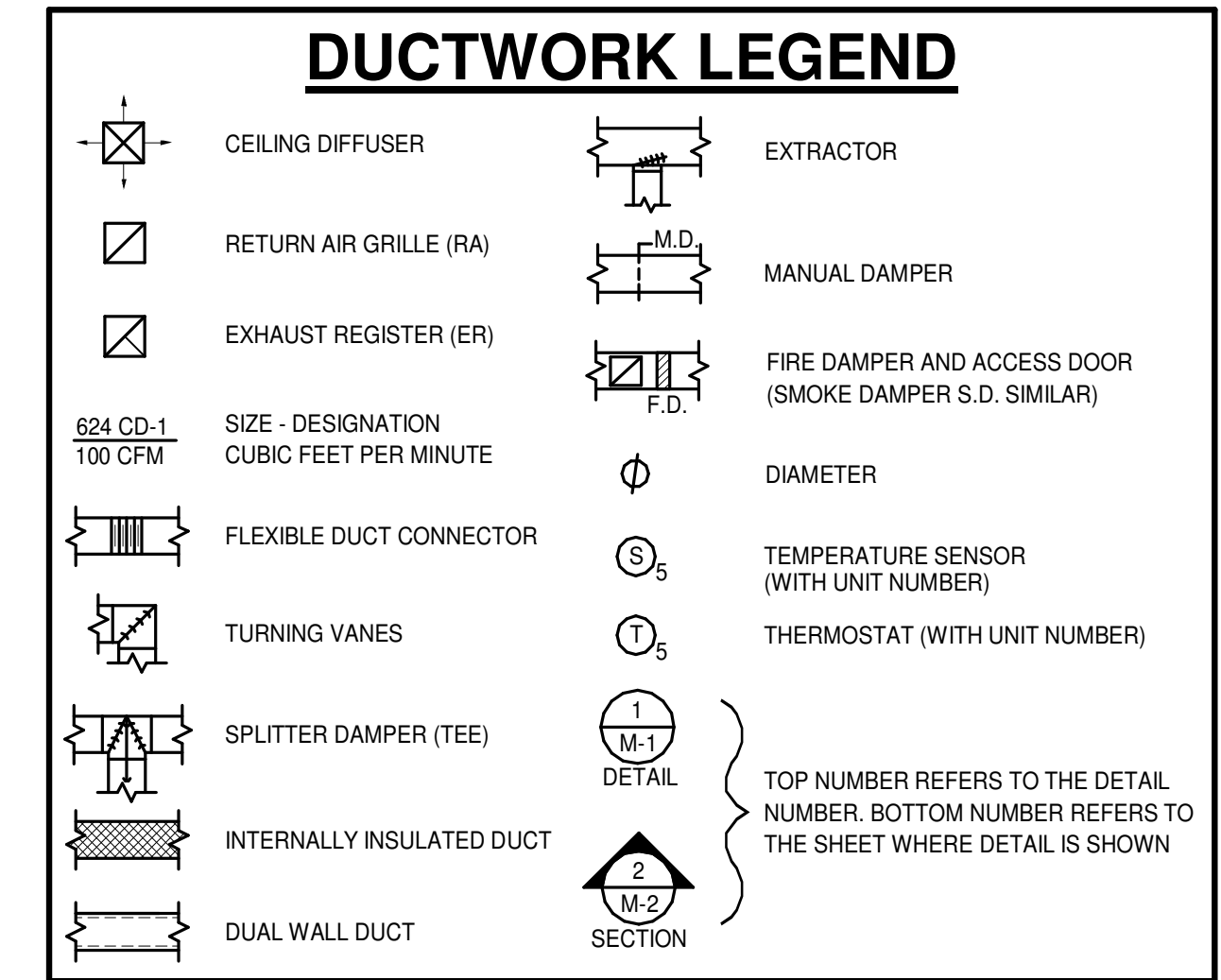


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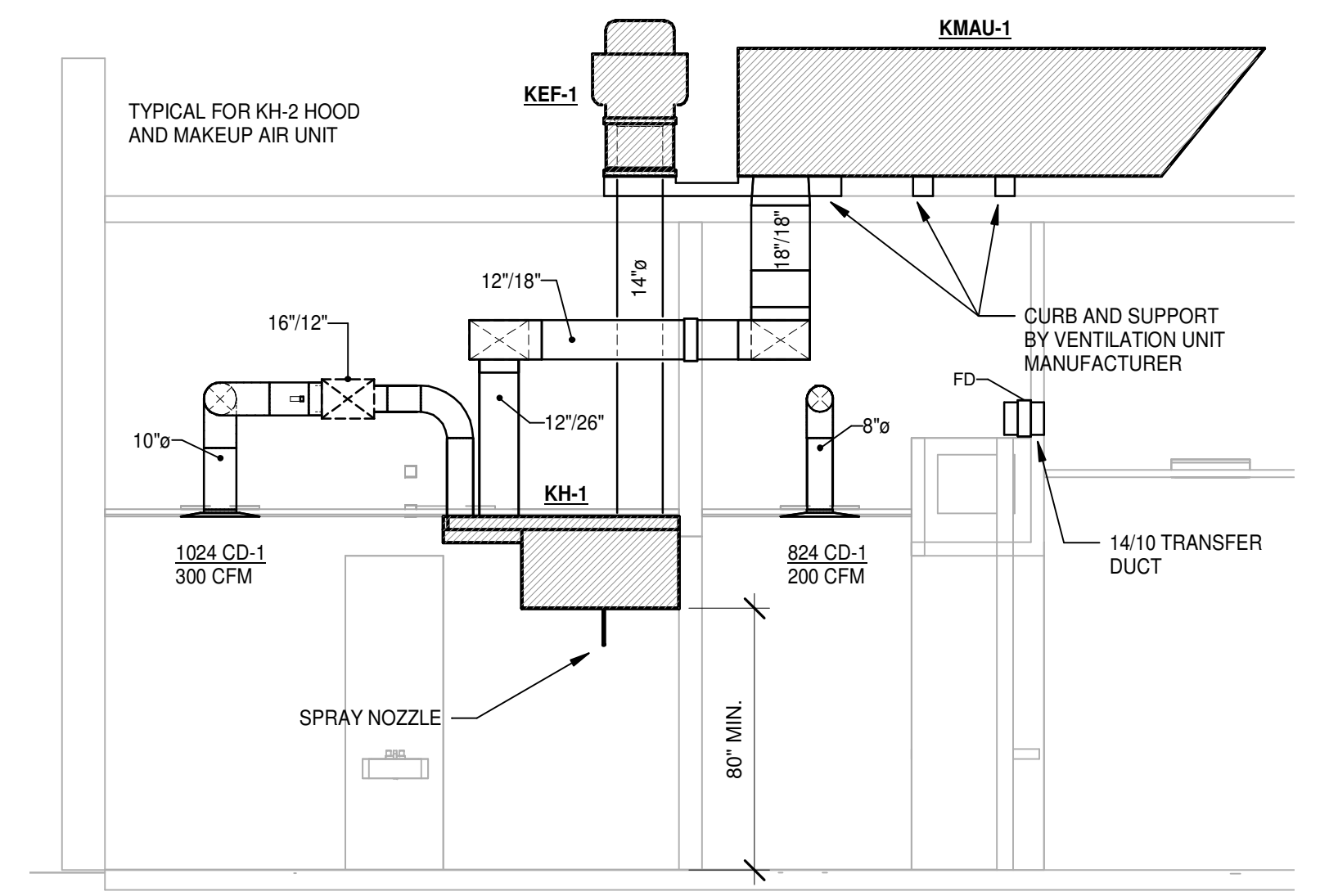
KITCHEN PLAN - HVAC
Sheet No. **M1.04**

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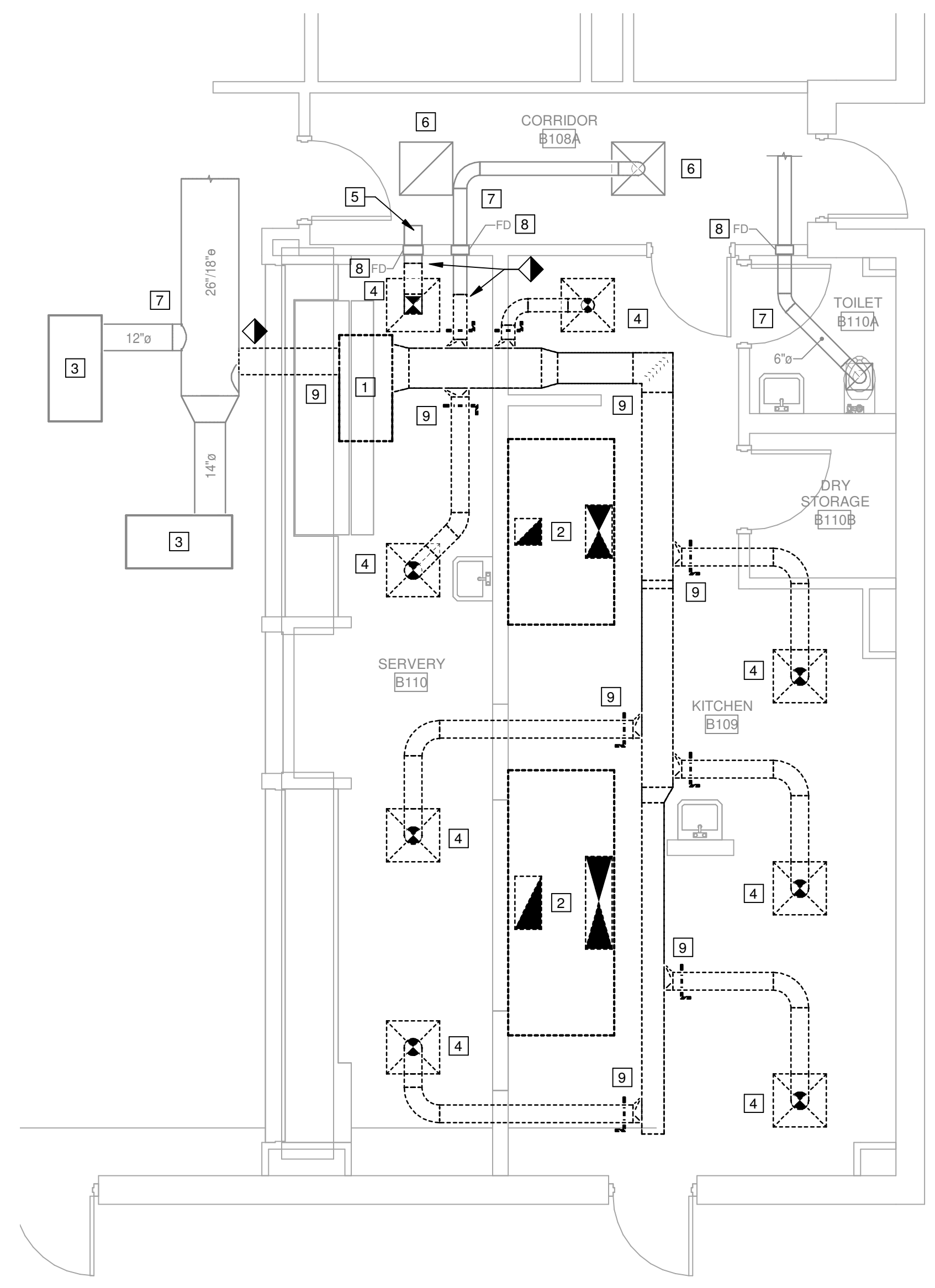


2 KITCHEN PLAN - HVAC
SCALE: 1/4" = 1'-0"

NOTE: REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF NEW SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES



3 KITCHEN SECTION
SCALE: 1/4" = 1'-0"



1 KITCHEN DEMOLITION PLAN - HVAC
SCALE: 1/4" = 1'-0"

Project Name: Autodesk Docs/ASU Mid-South Chiller Replacement/23-008 ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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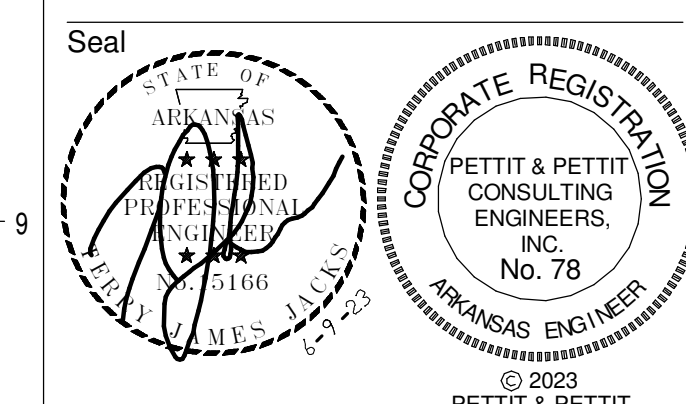
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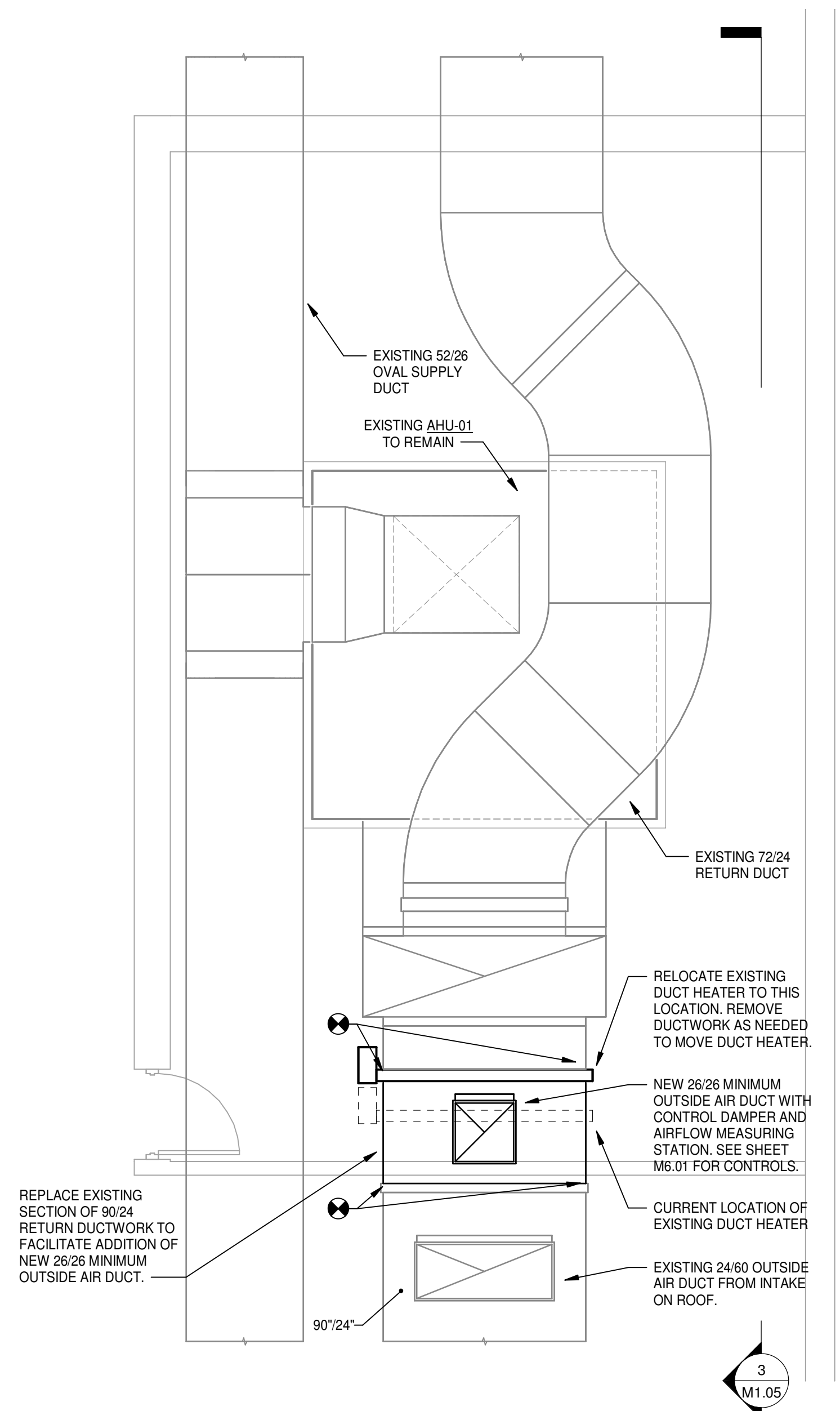
**MECH ROOM
DUCT PLANS**

Sheet No.
M1.05

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1 REYNOLD'S CENTER EAST MECH ROOM PLAN - HVAC

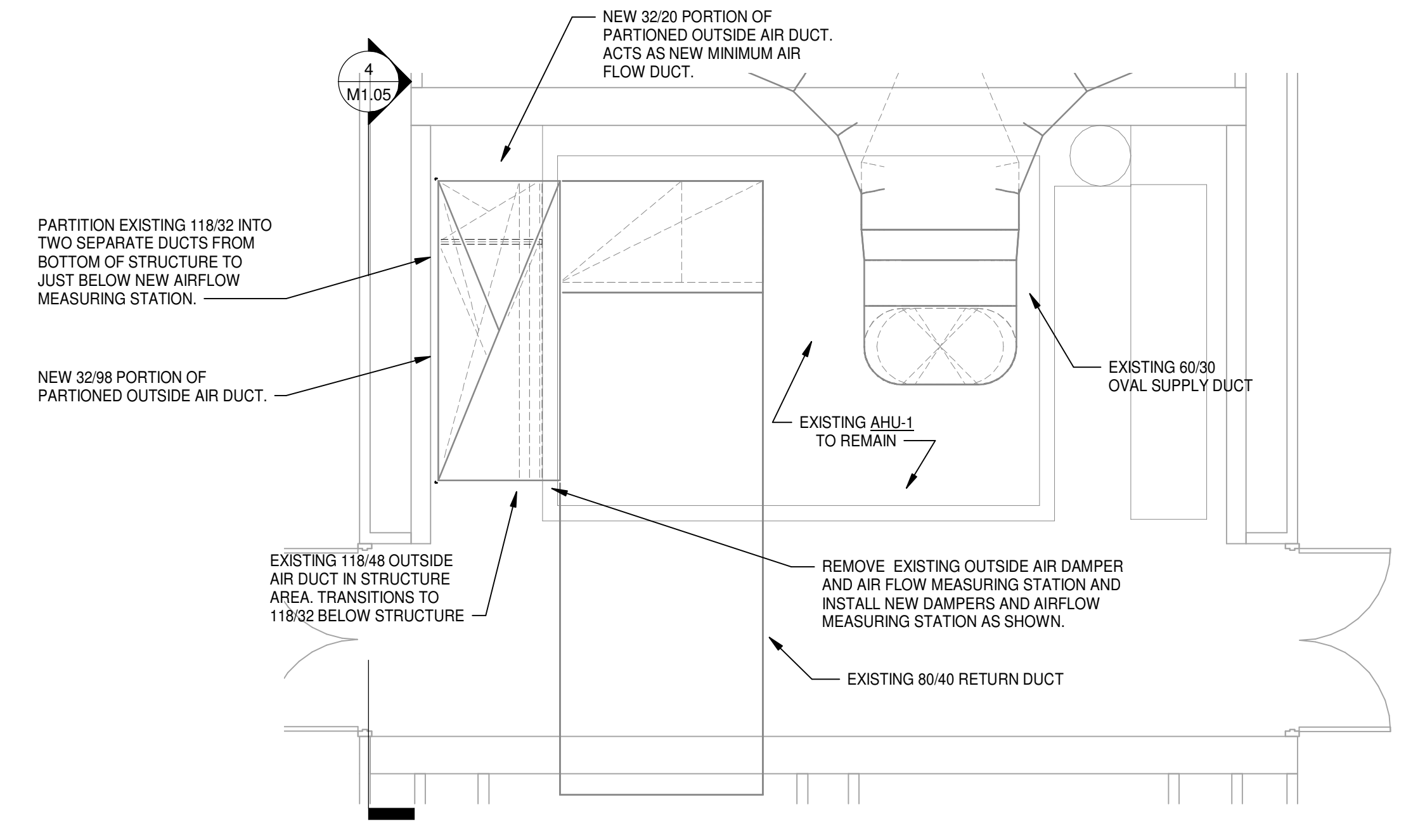
SCALE: 1/4" = 1'-0"



NOTE: PROVIDE NEW MINIMUM OUTSIDE AIR DUCT WITH DAMPER AND AIRFLOW MEASURING STATION FOR AHU-02 LOCATED IN THE WEST MECH ROOM SIMILAR TO AS SHOWN HERE.
NOTE: MINIMUM OSA SETPOINT FOR BOTH AHU-01 AND AHU-02 IS 6,750 CFM.

2 UNIVERSITY CENTER MECH ROOM PLAN - HVAC

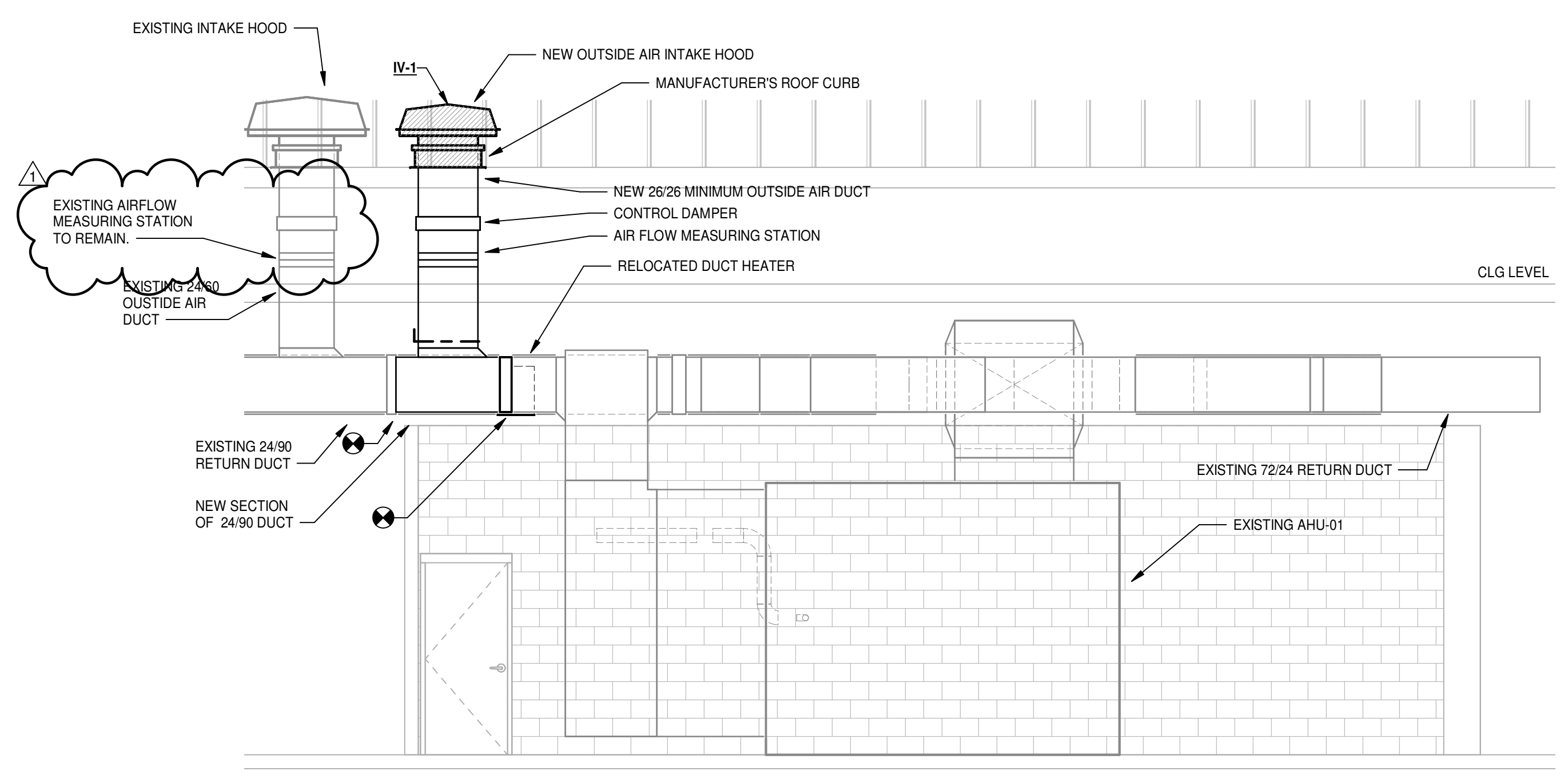
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NOTE: SEE SHEET M6.02 FOR CONTROLS
NOTE: MINIMUM OSA SETPOINT FOR AHU-1 IS 6,375 CFM.

3 REYNOLD'S CENTER EAST SECTION

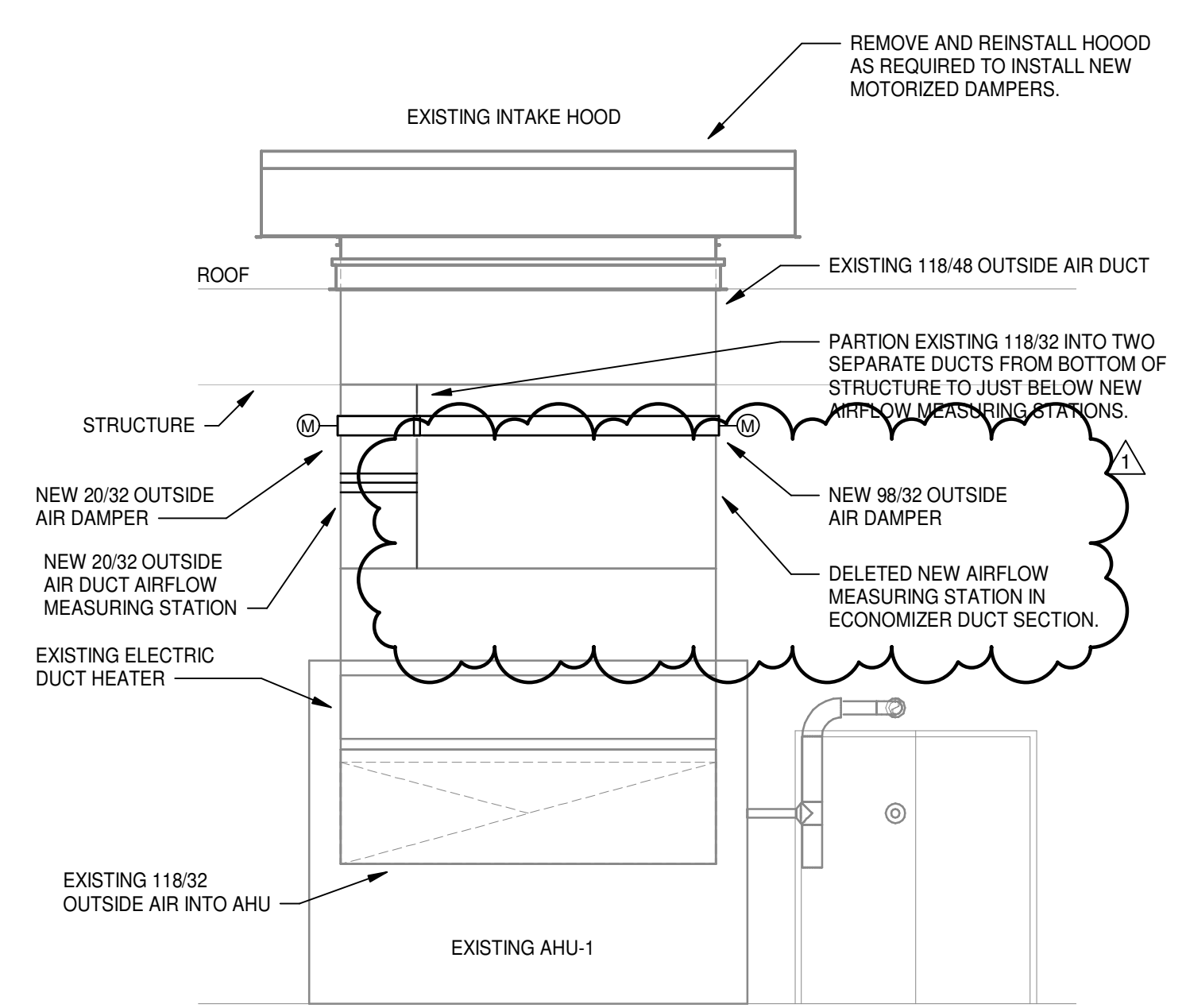
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NOTE: WEST MECHANICAL ROOM SECTION SIMILAR.

4 UNIVERSITY CENTER SECTION

SCALE: 1/4" = 1'-0"

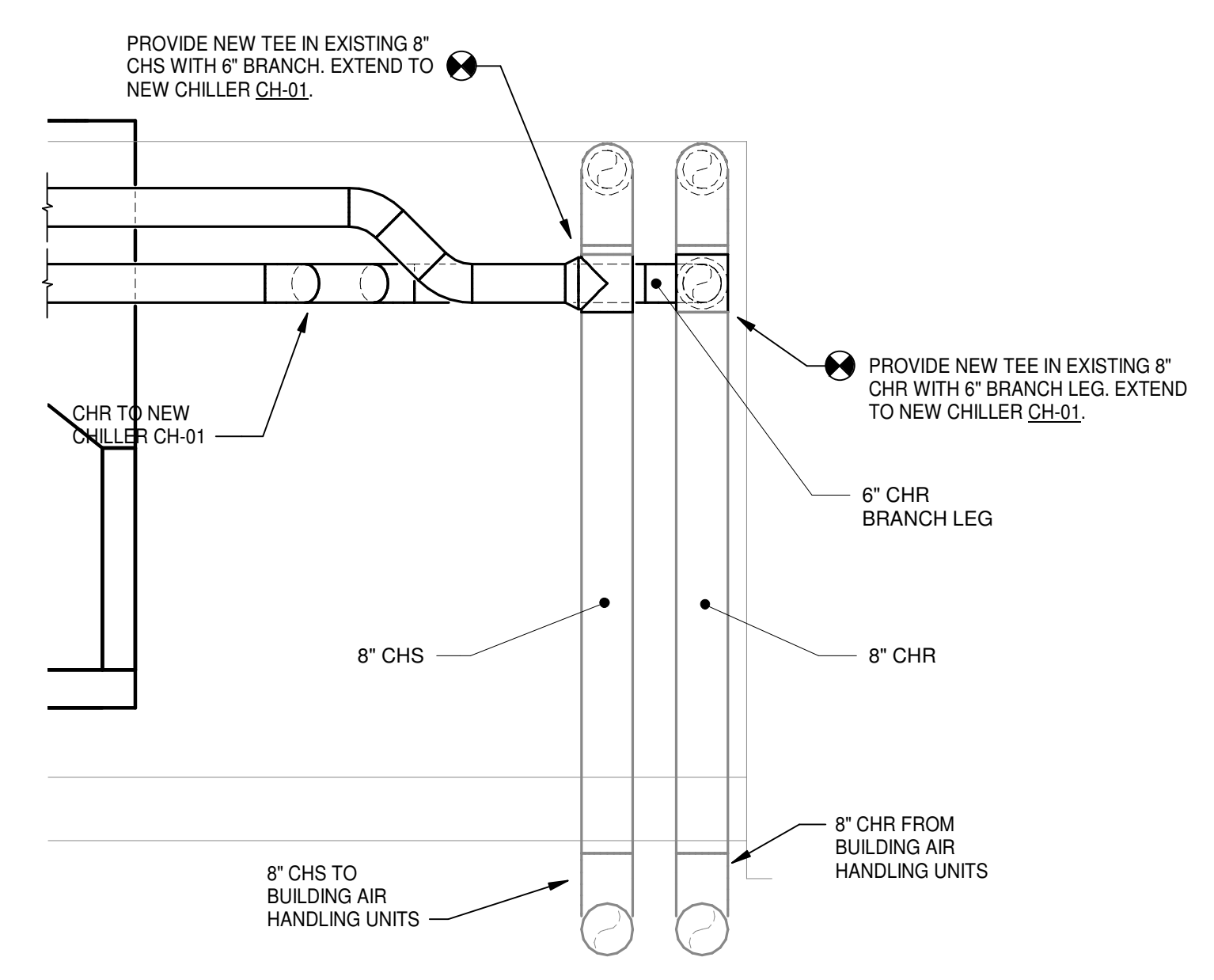


NOTE: SEE SHEET M6.02 FOR CONTROLS
NOTE: MINIMUM OSA SETPOINT FOR AHU-1 IS 6,375 CFM.

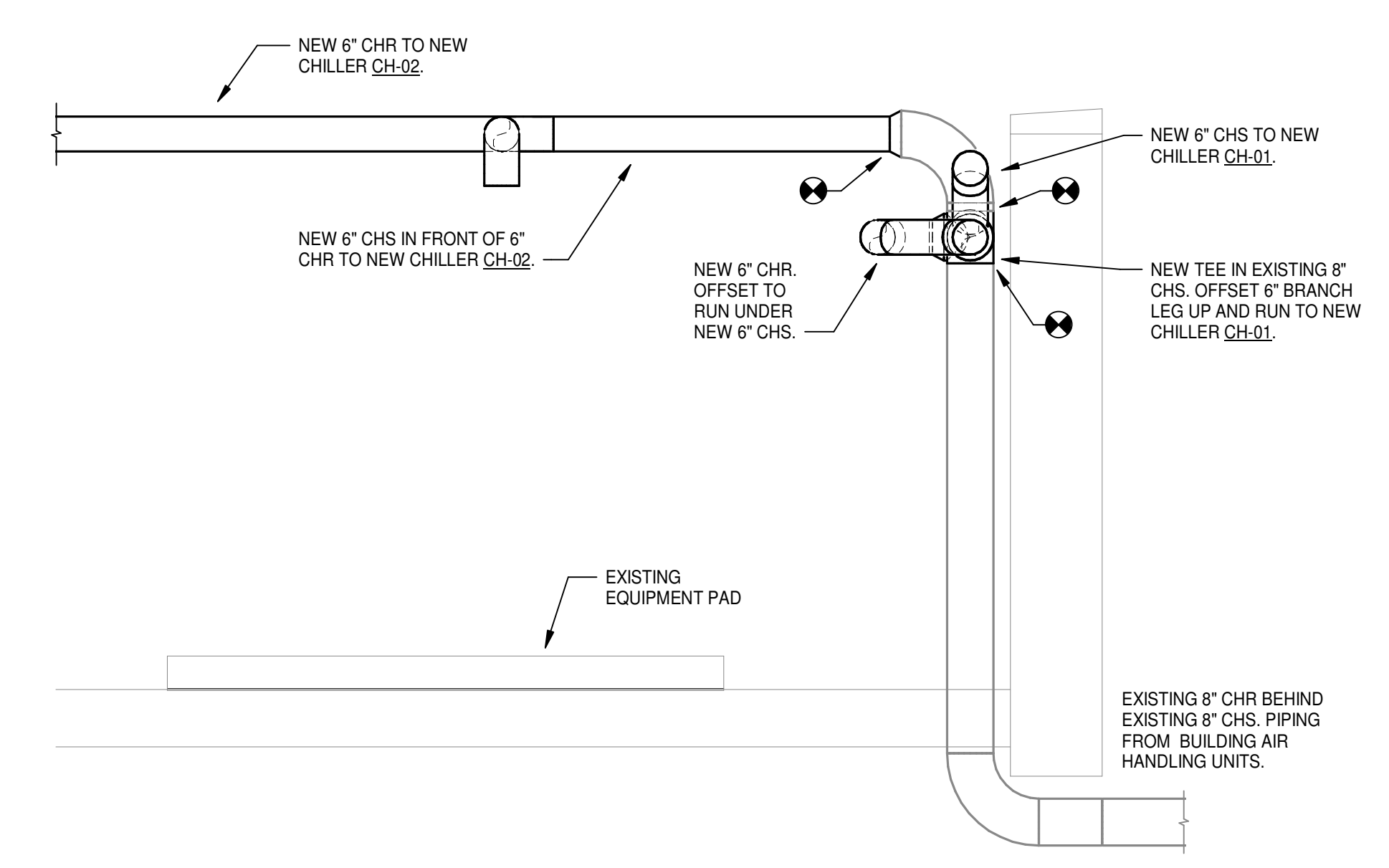
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AutoCAD Doc: /ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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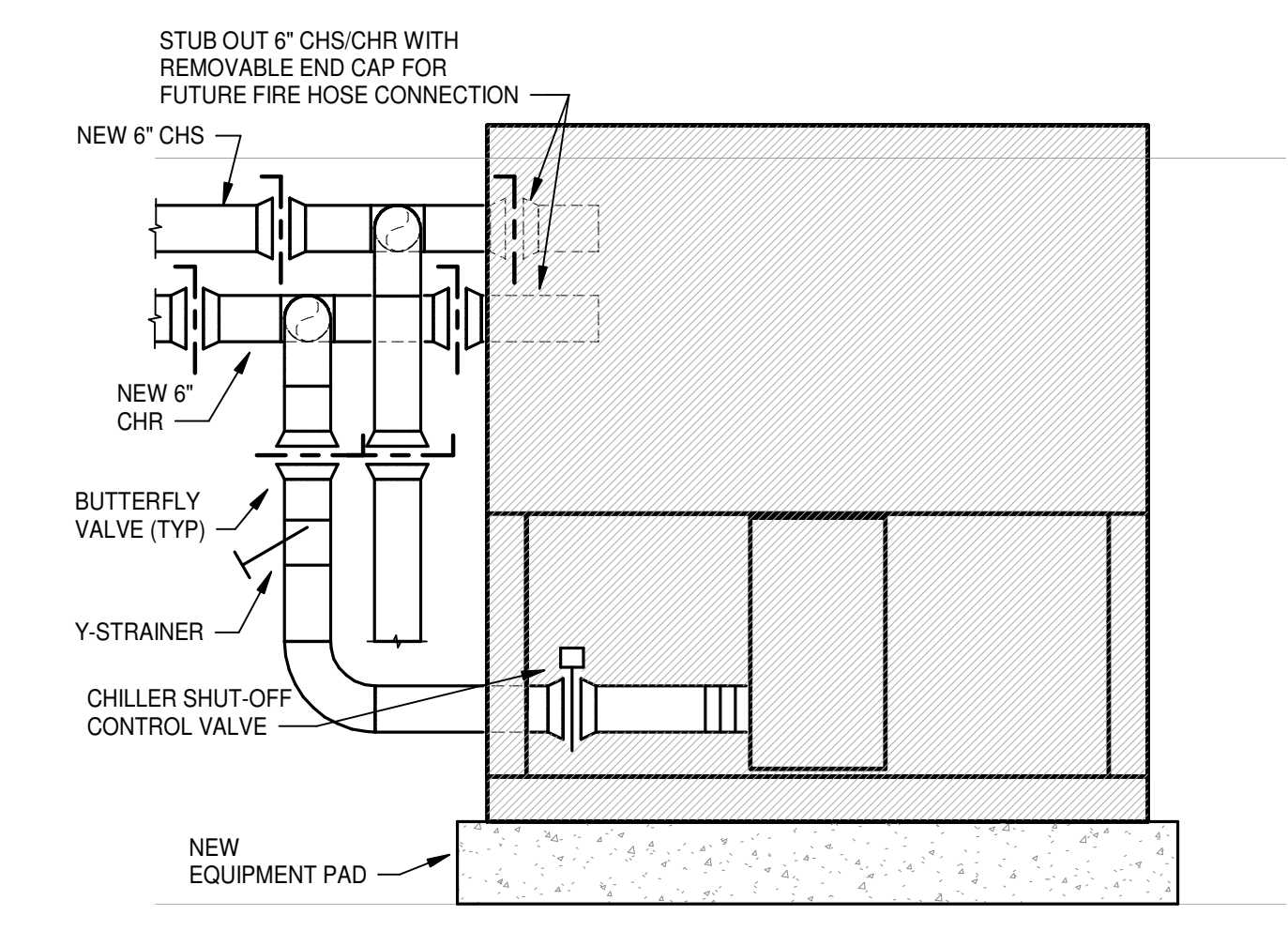
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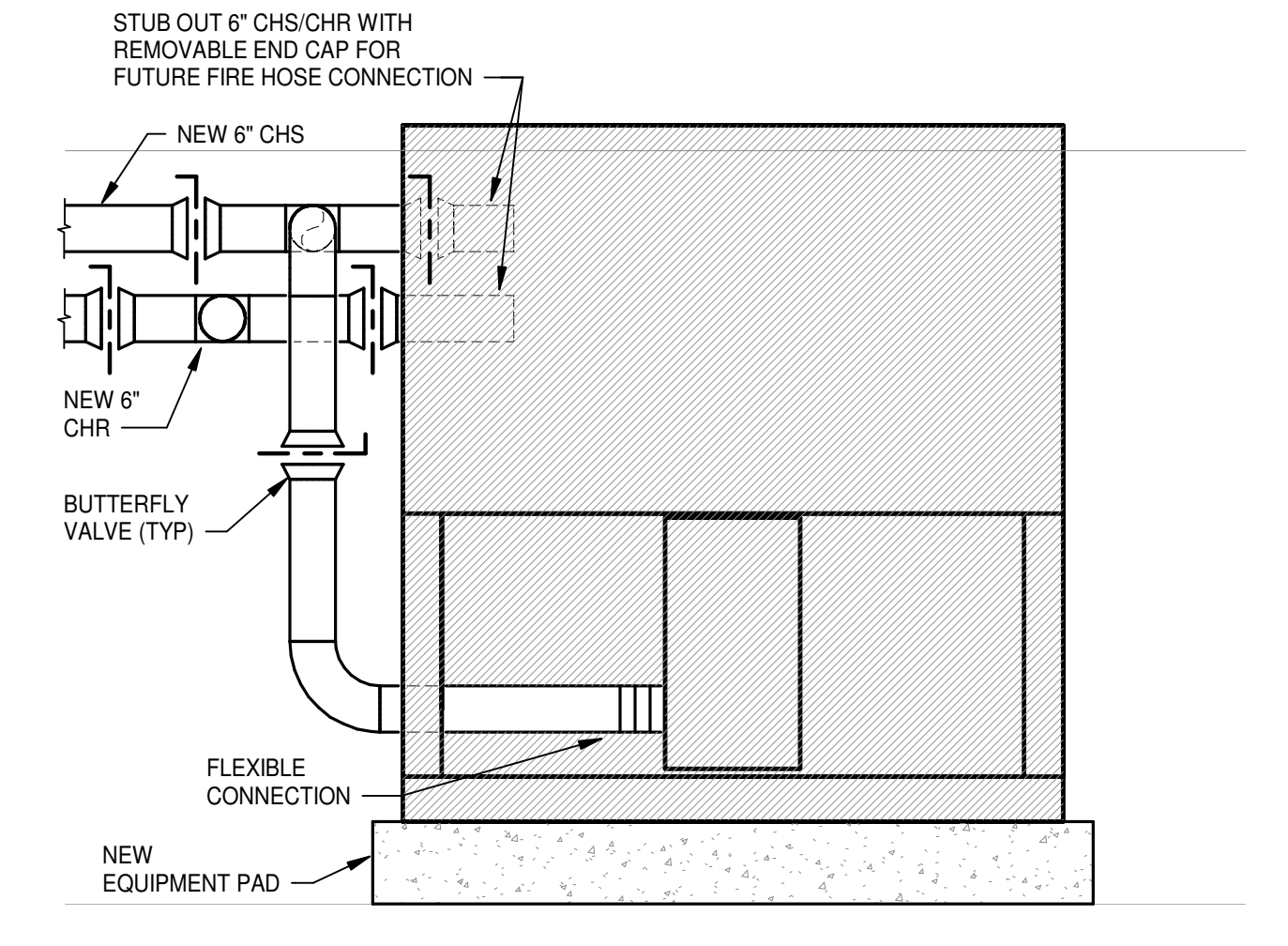
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2 Section 2
SCALE: 1/2" = 1'-0"



3 Section 3
SCALE: 1/2" = 1'-0"



4 Section 4
SCALE: 1/2" = 1'-0"

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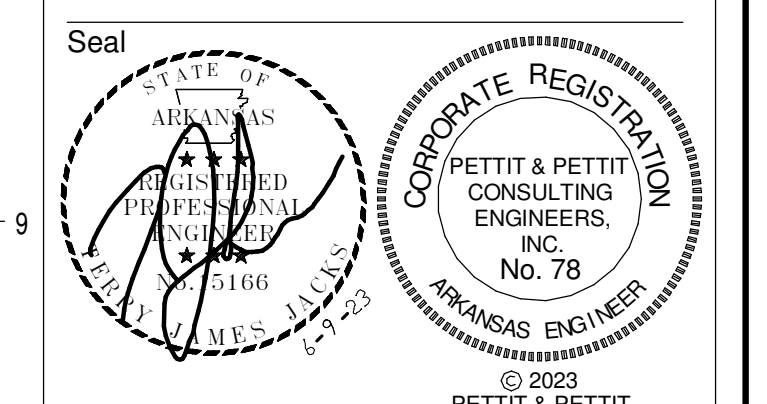
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HVAC SECTIONS
Sheet No.
M2.01

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Project Name: A:\asudoc\ASU Mid-South RIC & UC Chiller Replacement\R22 Pettit Central.rvt
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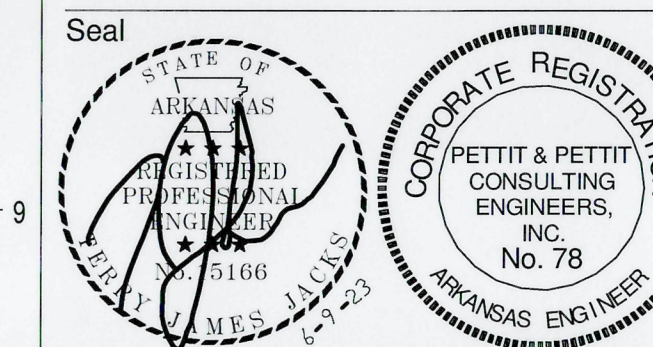
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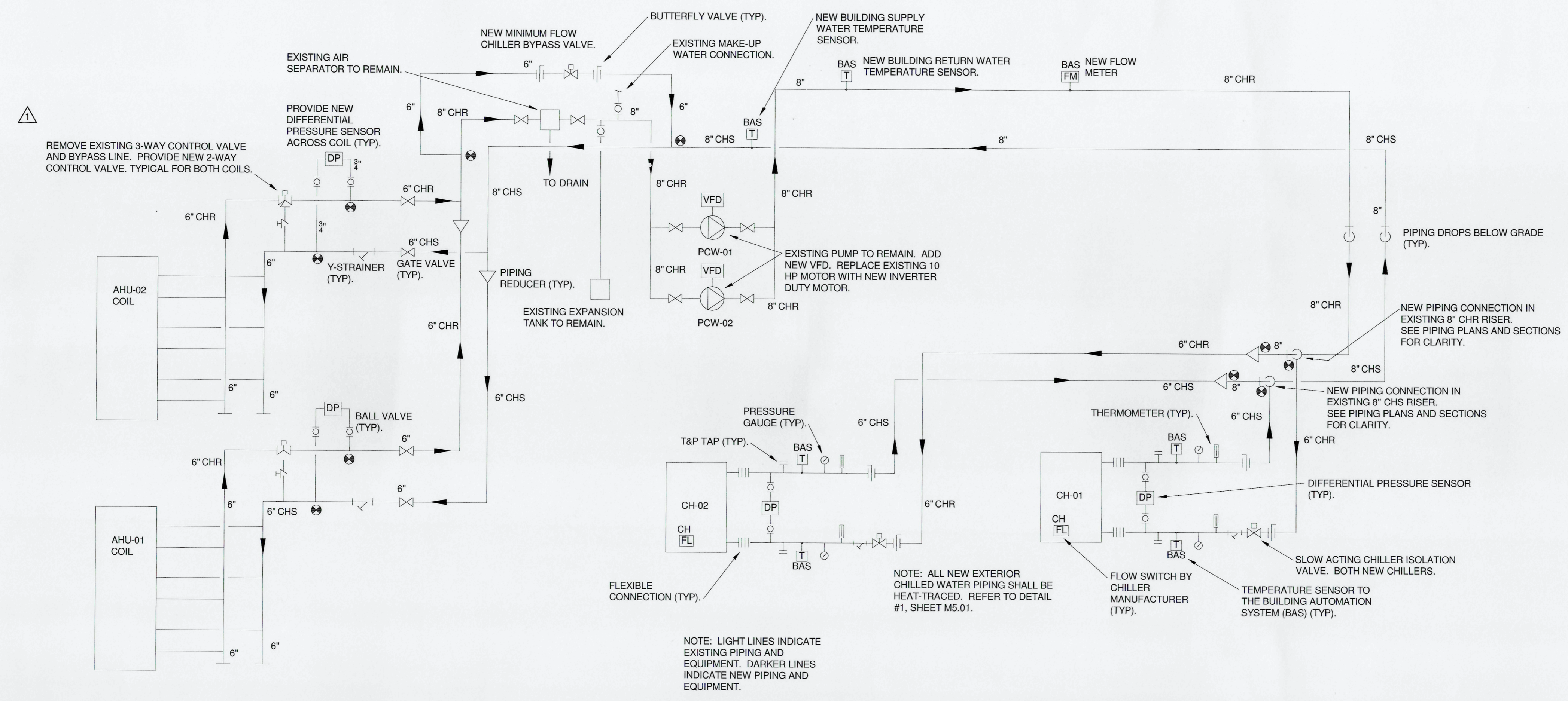
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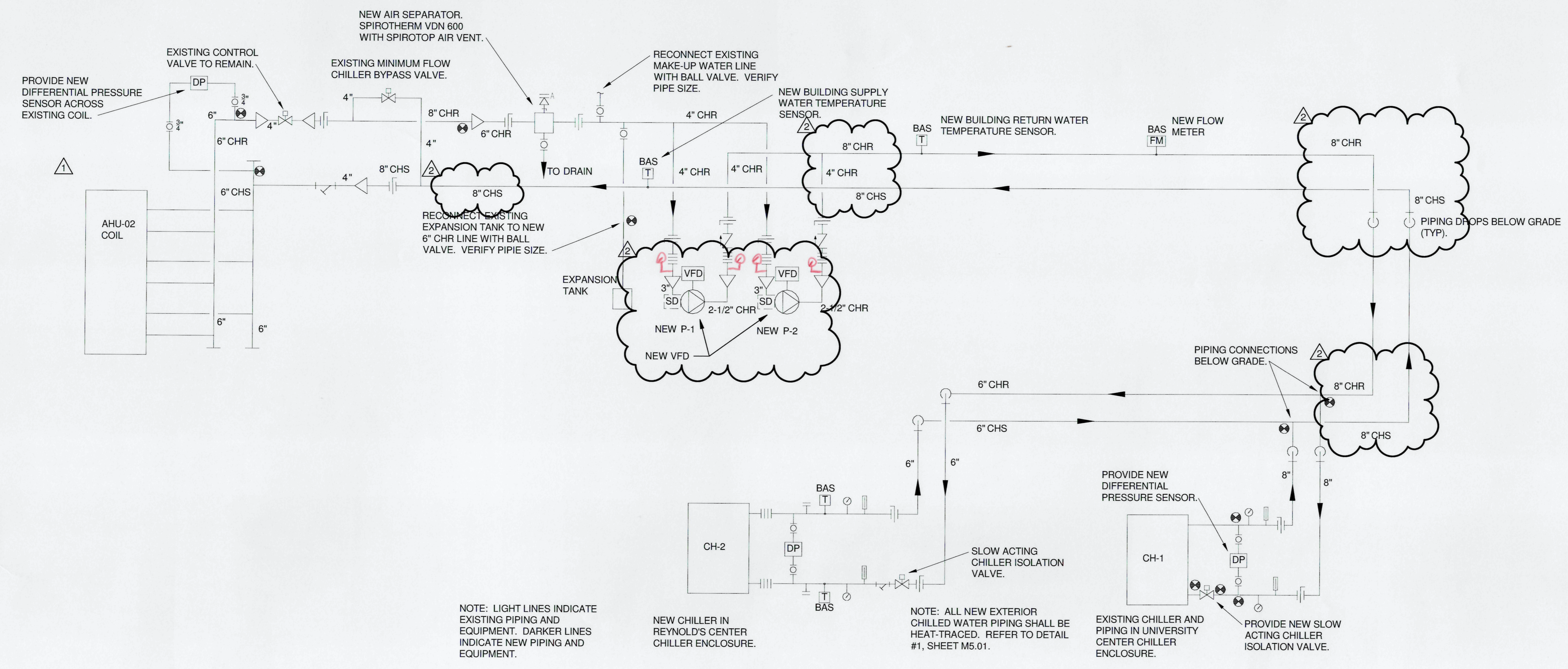
No.	Issue	Date
ASI #1		08-17-23
PR #3		10-13-23

Job No. ASUMCH23.00
Date 06.09.23
Title

HVAC SCHEMATICS
Sheet No. **M3.01**



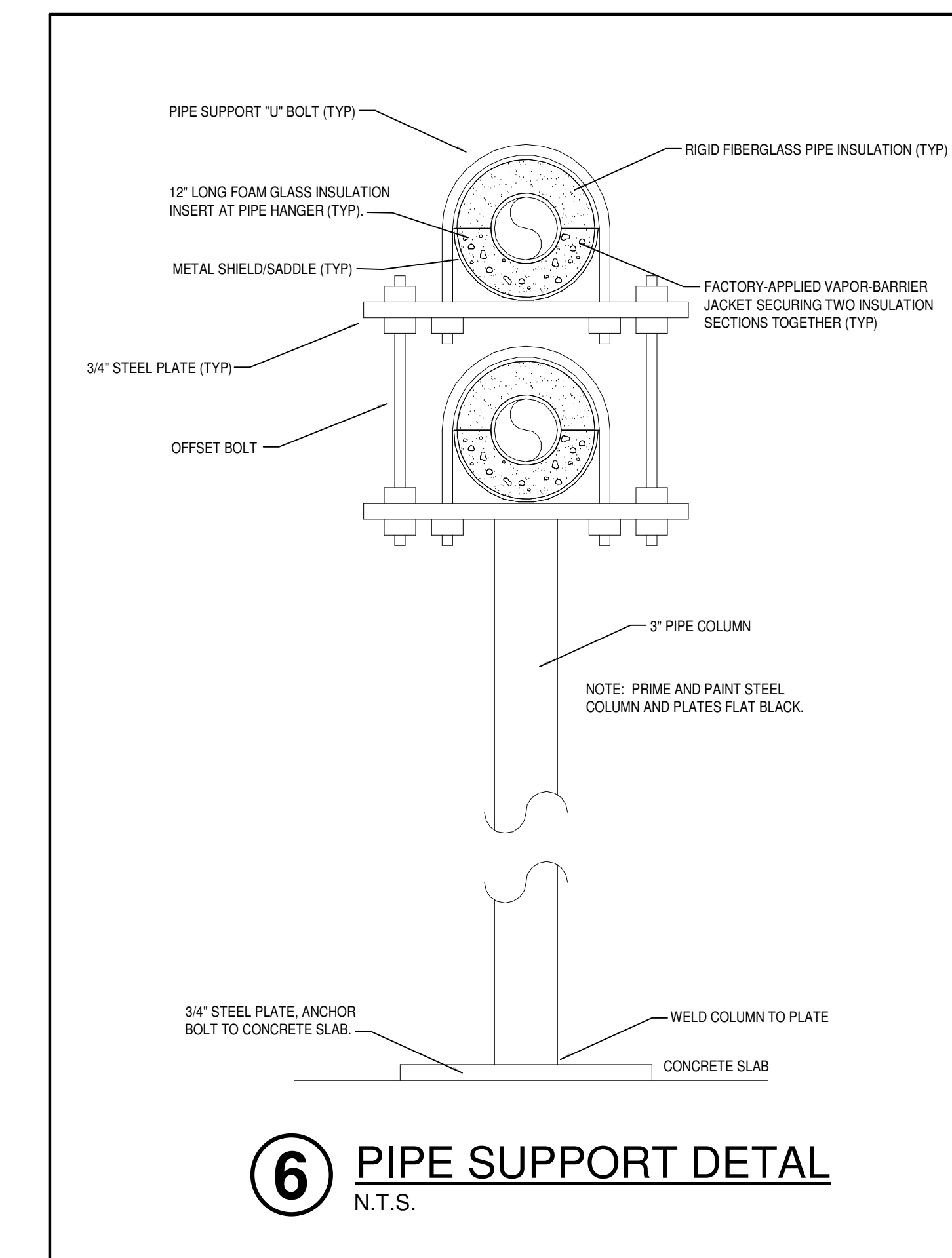
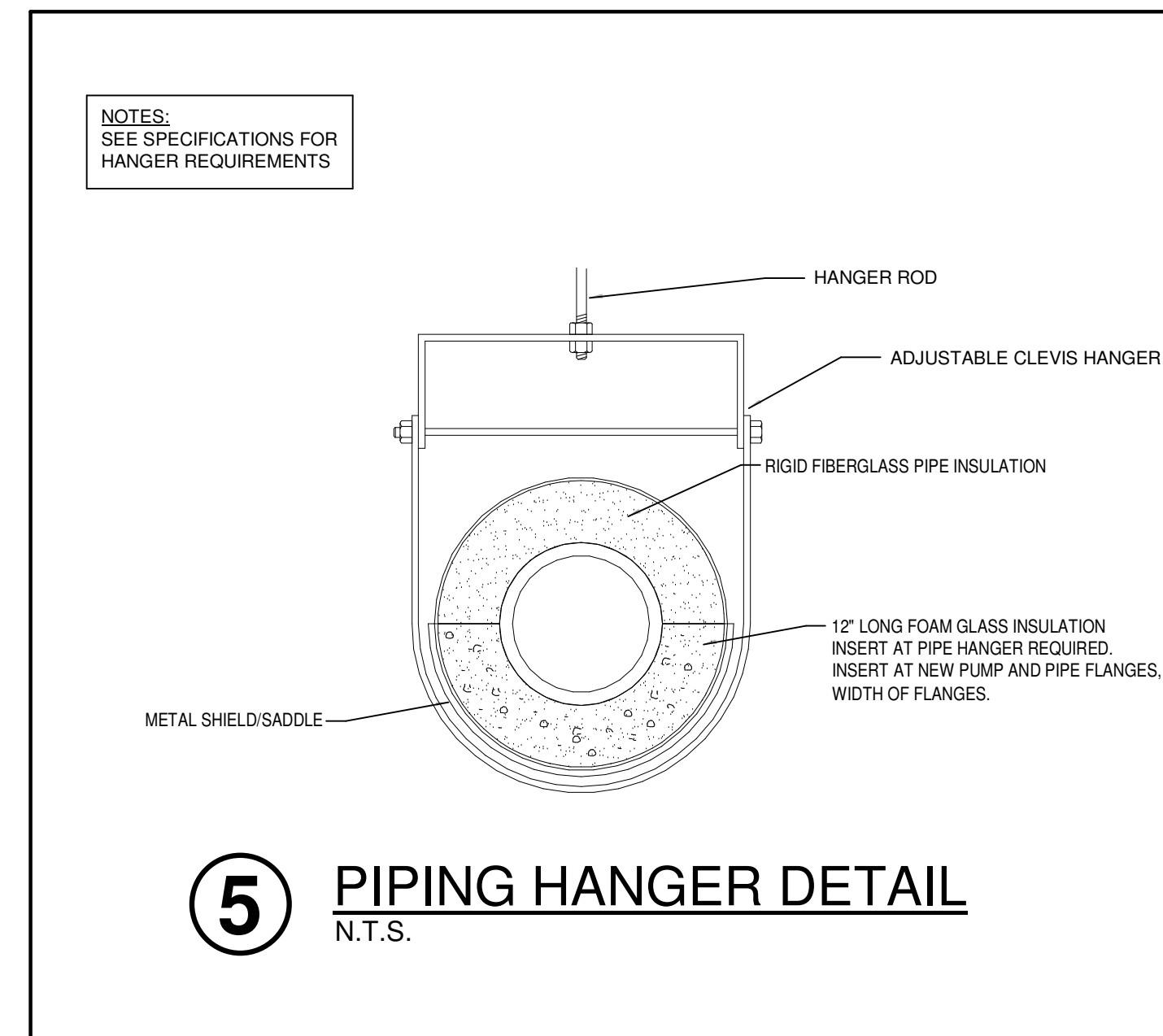
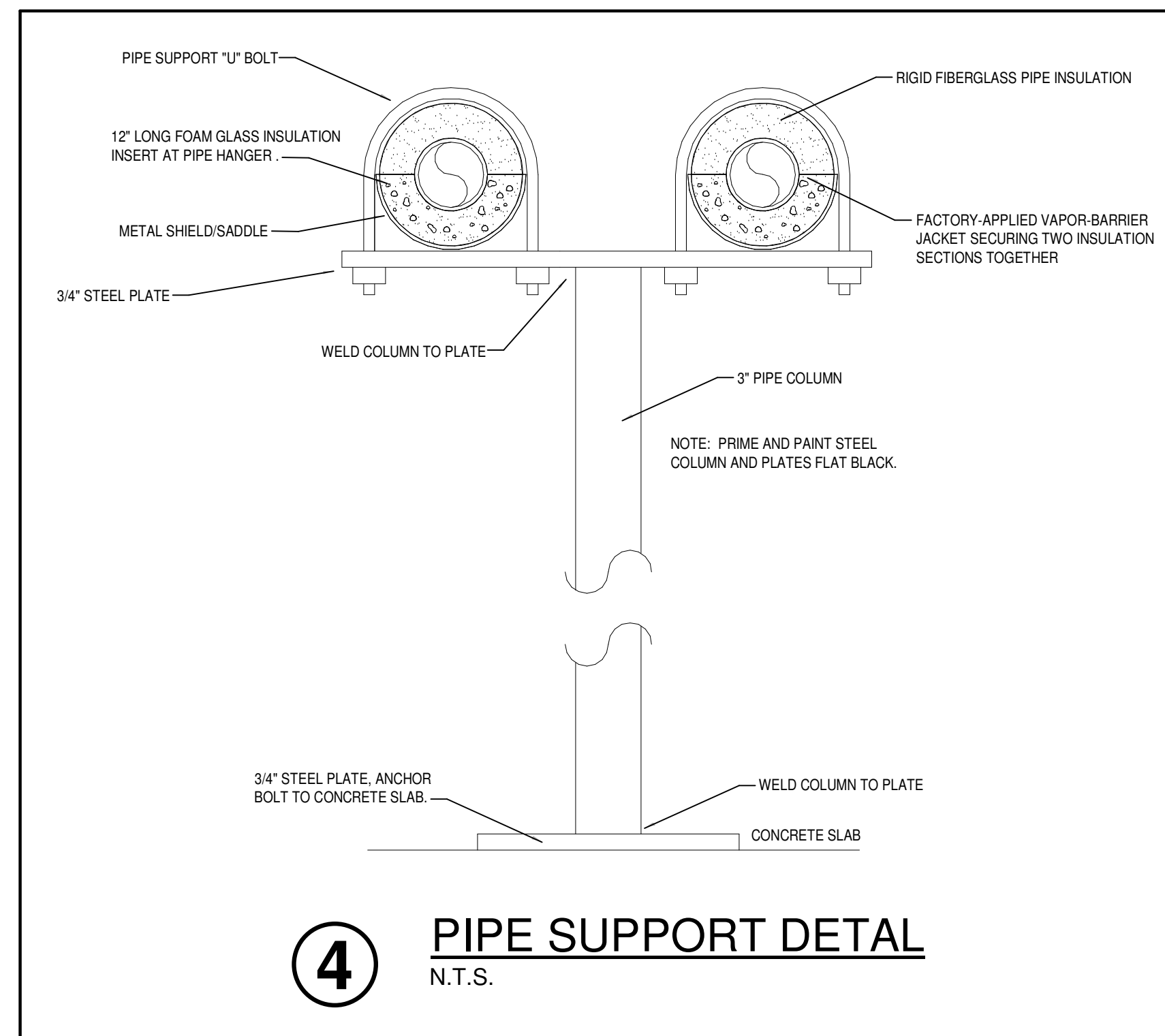
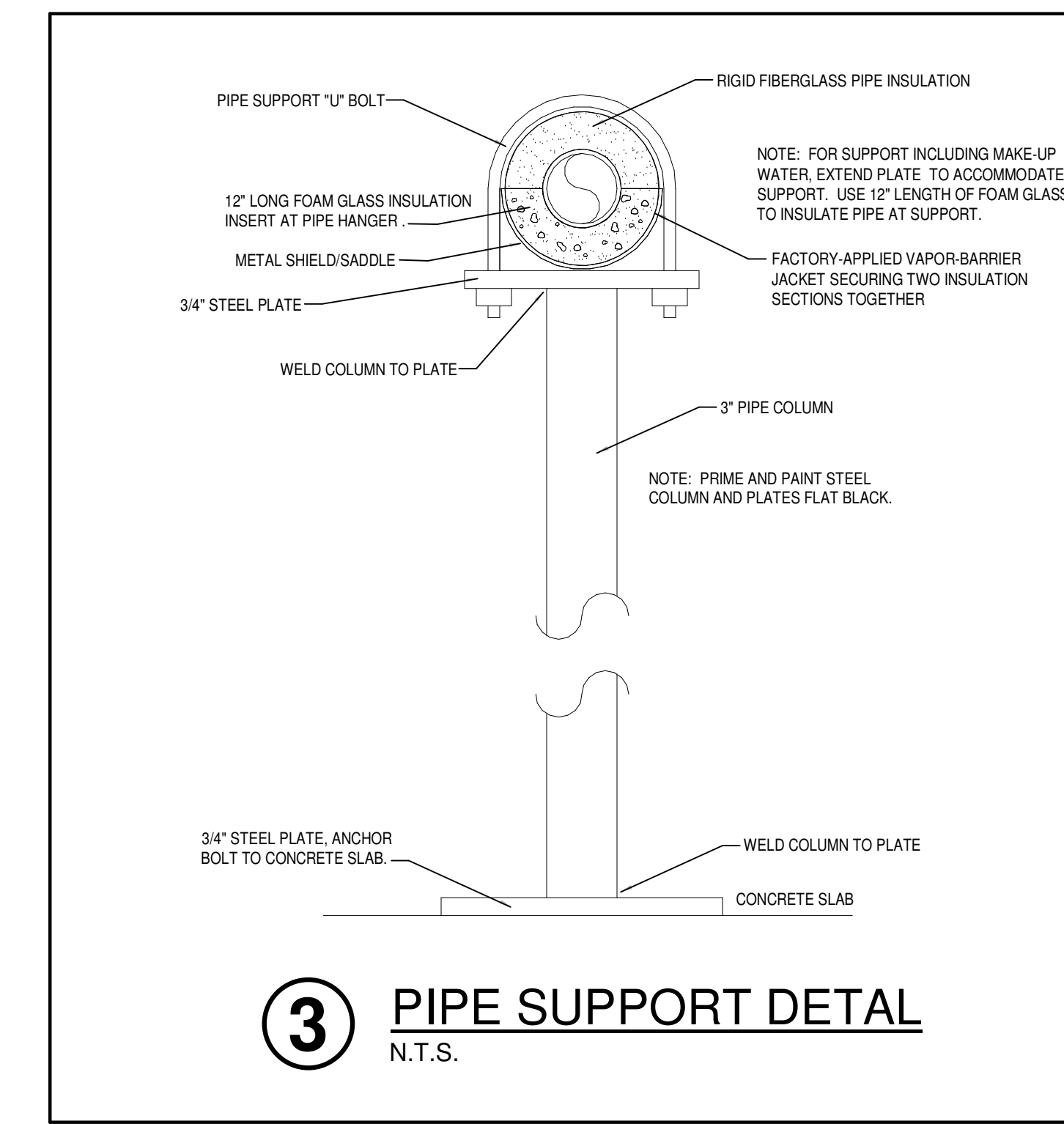
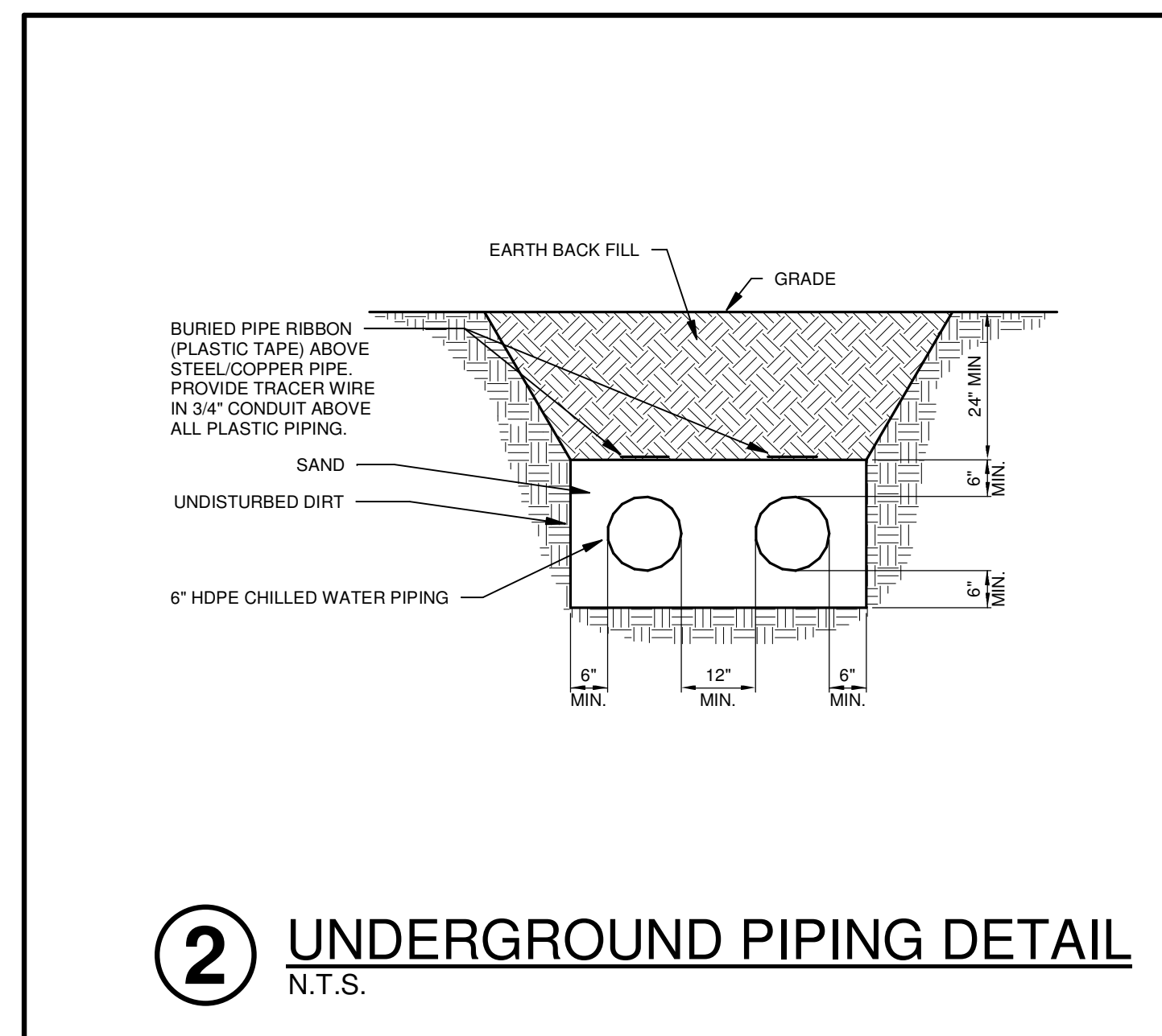
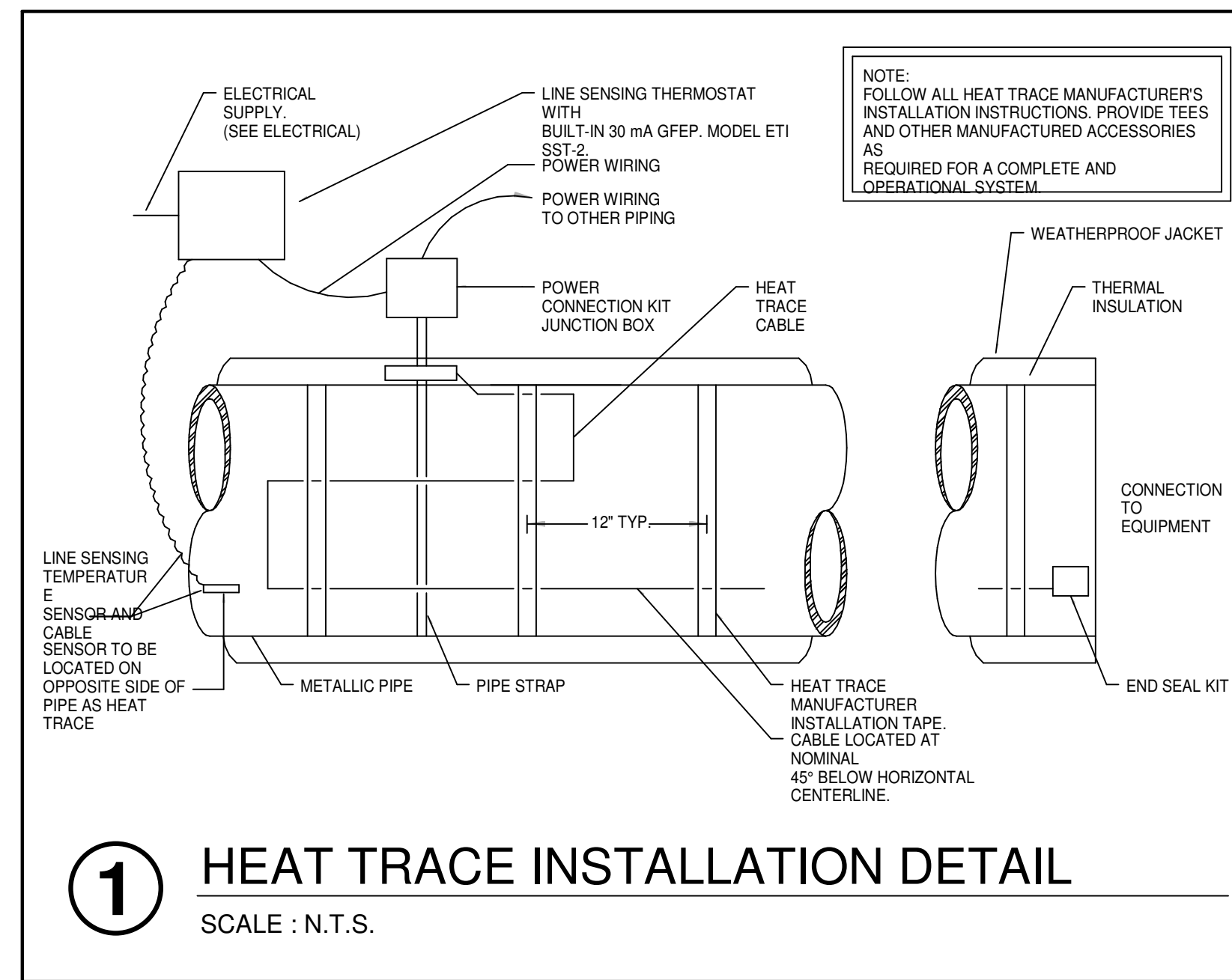
1 REYNOLD'S CENTER - CHILLED WATER PIPING SCHEMATIC
NOT TO SCALE



2 UNIVERSITY CENTER - CHILLED WATER PIPING SCHEMATIC
NOT TO SCALE

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Project Name: Autodesk Docs://ASU Mid-South FC & LC Chiller Replacement/ASU Mid-South Chiller Replacement (Pettit Central).vt
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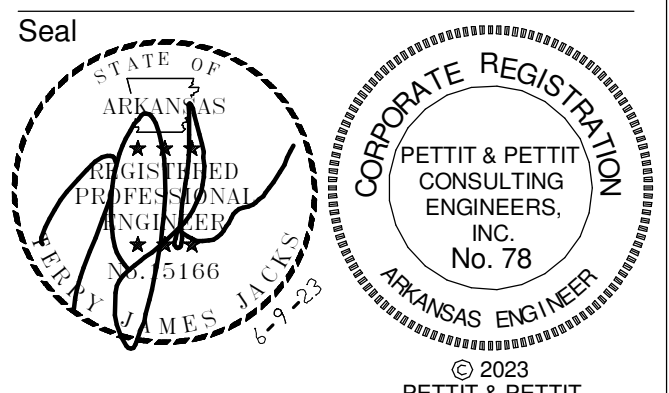


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Title 06.09.23

HVAC DETAILS
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M5.01

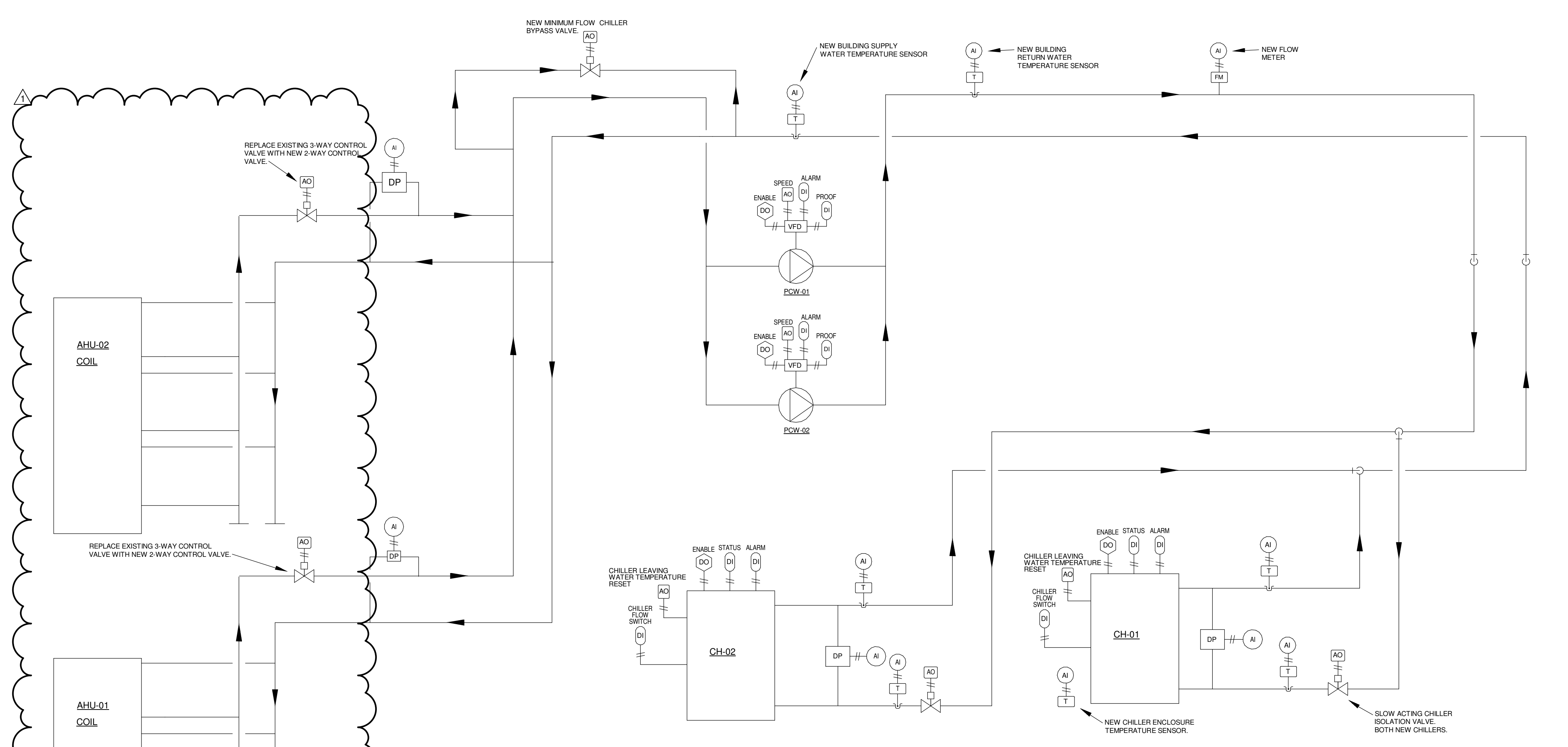
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1 REYNOLD'S CENTER CHILLED WATER SYSTEM
NOT TO SCALE

REYNOLD'S CENTER CHILLERS
CONTROL COORDINATION/NOTES
UPGRADE AND MODIFY THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) AS REQUIRED TO REMOVE THE EXISTING CHILLERS, AND INCORPORATE THE NEW CHILLERS, CH-01 AND CH-02, INTO THE EXISTING BAS SYSTEM. THE UPGRADE AND MODIFICATION OF THE EXISTING BAS SYSTEM SHALL FACILITATE THE SEQUENCES OF OPERATION INDICATED AND PROVIDE FOR SYSTEM OPERATING, MONITORING, AND ALARM POINTS. REPRESENTATIVES FROM THE CHILLER MANUFACTURER AND THE BAS PROVIDER SHALL COORDINATE CLOSELY IN SETTING UP STABLE CHILLER OPERATION DURING TIMES WHEN THE LAG CHILLER IS BROUGHT ON TO RUN WITH THE LEAD CHILLER, AND WHEN BOTH CHILLERS ARE RUNNING AND ONE CHILLER IS BROUGHT OFF TO LEAVE ONE CHILLER RUNNING.

CHILLED WATER SYSTEM SEQUENCE OF OPERATION
CHILLER OPERATION OVERVIEW
EACH PACKAGED CHILLER CONTROL PANEL SHALL MONITOR AND CONTROL CHILLER OPERATION IN A STAND ALONE MODE. THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) SHALL ENABLE CHILLER OPERATION AND MONITOR CHILLED WATER SYSTEM STATUS.

VARIABLE SPEED PUMPING SEQUENCE OF OPERATION
THE EXISTING CHILLED WATER PUMPS, DSW-1 AND DSW-2, SHALL BE STARTED BY THE EXISTING BAS THROUGH THE NEW VARIABLE FREQUENCY DRIVES. PUMPS SHALL OPERATE IN A LEAD/LAG MODE. BAS SHALL ALTERNATE LEAD/LAG STATUS. THE DIFFERENTIAL PRESSURE SENSORS LOCATED AT EACH AIR HANDLING UNIT SHALL MODULATE PUMP SPEED THROUGH PUMP VFD ACCORDING TO THE GREATEST NEED TO MAINTAIN SYSTEM PRESSURE SETPOINT.

CHILLER SEQUENCE OF OPERATION
NEW CHILLERS SHALL OPERATE IN A LEAD/LAG MODE. BAS SHALL ALTERNATE CHILLER LEAD/LAG STATUS. THE CHILLED WATER SYSTEM SHALL BE ENABLED ON AN OWNER DEFINED SCHEDULE. ONCE ENABLED, THE LEAD CHILLER CONTROL VALVE SHALL OPEN. CONTROL VALVE SHALL BE SLOW ACTING MODULATING TYPE. VALVE OPENING TIME SHALL NOT BE LESS THAN 90 SECONDS (A.O.). WHEN THE VALVE IS FULLY OPEN, AS VERIFIED THROUGH THE VALVE END SWITCH, THE CHILLER CONTROL PANEL SHALL SIGNAL THE BAS TO START THE LEAD CHILLED WATER PUMP. AFTER PROOF OF FLOW FROM THE CHILLER FLOW SWITCH, LEAD CHILLER SHALL START. ONCE STARTED CHILLER SHALL OPERATE THROUGH ITS FACTORY CONTROLS TO MAINTAIN THE CHILLER LEAVING WATER TEMPERATURE SETPOINT OF 42 DEG. F (A.O.). CHILLER LEAVING WATER TEMPERATURE SETPOINT RESET SHALL BE CARRIED THROUGH THE EXISTING BUILDING BAS.

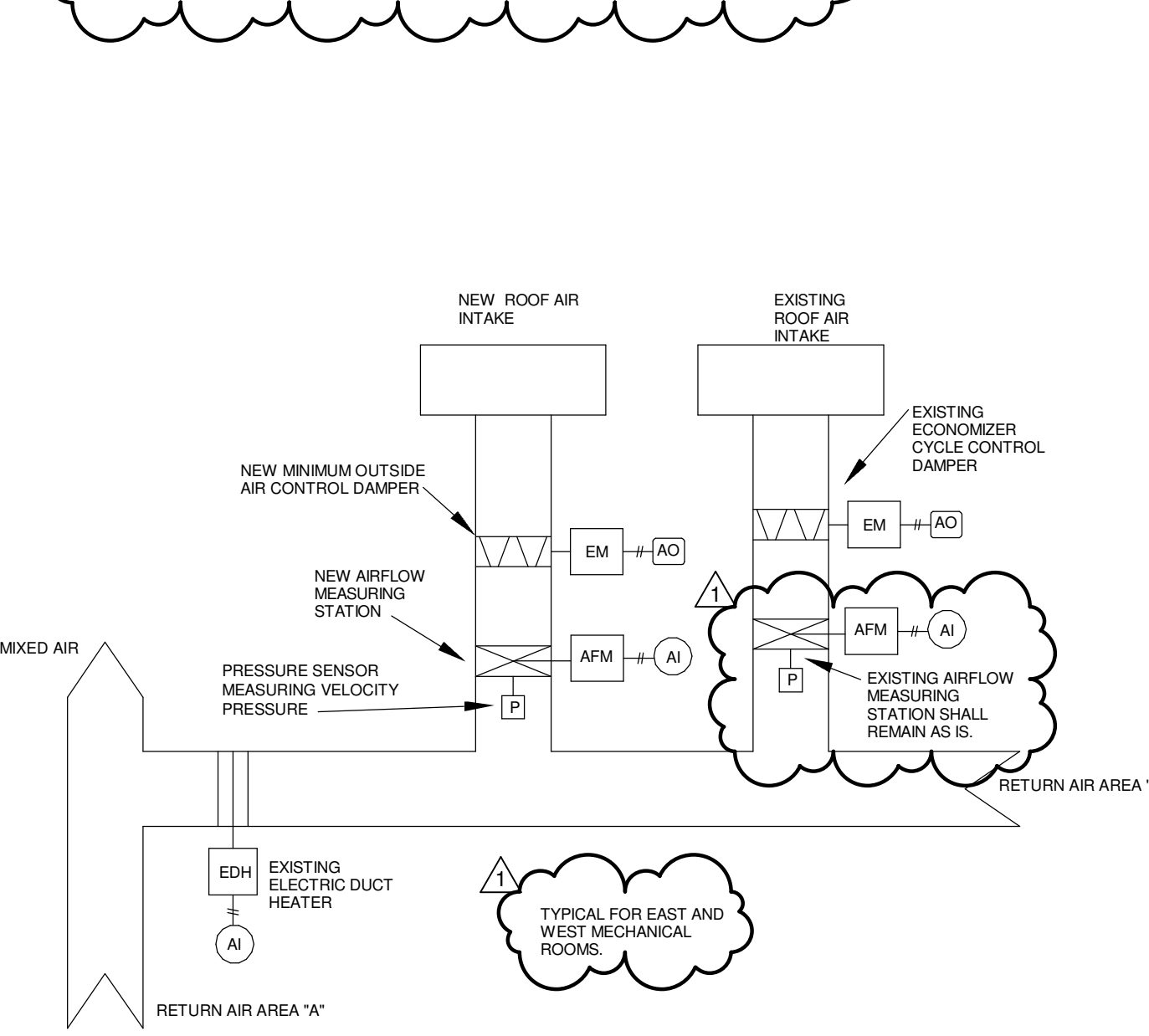
WHEN THE BUILDING CHILLED WATER SUPPLY TEMPERATURE EXCEEDS ITS SETPOINT TEMPERATURE OF 42 DEG. (A.O.) BY 5 DEG. F FOR A PERIOD OF 10 MINUTES, THE LAG CHILLER SHALL BE ENABLED TO RUN. ONCE ENABLED, THE LAG CHILLER SHALL START ONLY AFTER THE FOLLOWING HAS OCCURRED:
A. THE CHILLED WATER CONTROL VALVE OPENS FULLY AND IS VERIFIED THROUGH THE VALVE END SWITCH.
B. THE SLOW ACTING VALVE SHALL MODULATE IN SUCH A MANNER THAT PROVIDES FOR STABLE OPERATION OF THE LEAD CHILLER.
C. FLOW THROUGH THE CHILLER, AS SENSED BY THE CHILLER DIFFERENTIAL FLOW SENSOR, EXCEEDS THE MINIMUM ALLOWABLE FLOW (150 GPM, CORRESPONDING TO 3.48 FT WPG) FOR A PERIOD OF 5 MINUTES.

AFTER LAG CHILLER HAS STARTED, BOTH CHILLERS SHALL OPERATE THROUGH THEIR INDIVIDUAL FACTORY CONTROL SYSTEMS TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT OF 42 DEG. F (A.O.). WHEN BOTH CHILLERS ARE OPERATING AND THE BUILDING CHILLED WATER RETURN TEMPERATURE FALLS BELOW 51 DEG. F FOR A PERIOD OF 10 MINUTES, THE LAG CHILLER SHALL STOP AND THE CHILLED WATER CONTROL VALVE SHALL CLOSE. THE SLOW ACTING VALVE SHALL MODULATE CLOSED IN A MANNER THAT PROVIDES FOR STABLE OPERATION OF THE LEAD CHILLER. LEAD CHILLER SHALL CONTINUE TO OPERATE TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT.

DURING PERIODS OF LOW DEMAND FOR CHILLED WATER, THE BAS SHALL MODULATE THE MINIMUM FLOW CHILLER BYPASS VALVE THROUGH THE LEAD CHILLERS DIFFERENTIAL PRESSURE SENSOR TO MAINTAIN THE MINIMUM ALLOWABLE FLOW THROUGH THE CHILLER (150 GPM CORRESPONDING TO 3.48 FT WPG).

UNOCCUPIED MODE OPERATION
THE BAS SHALL ENABLE THE CHILLED WATER SYSTEM ON A CALL FOR COOLING. CHILLERS SHALL OPERATE AS REQUIRED TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT.

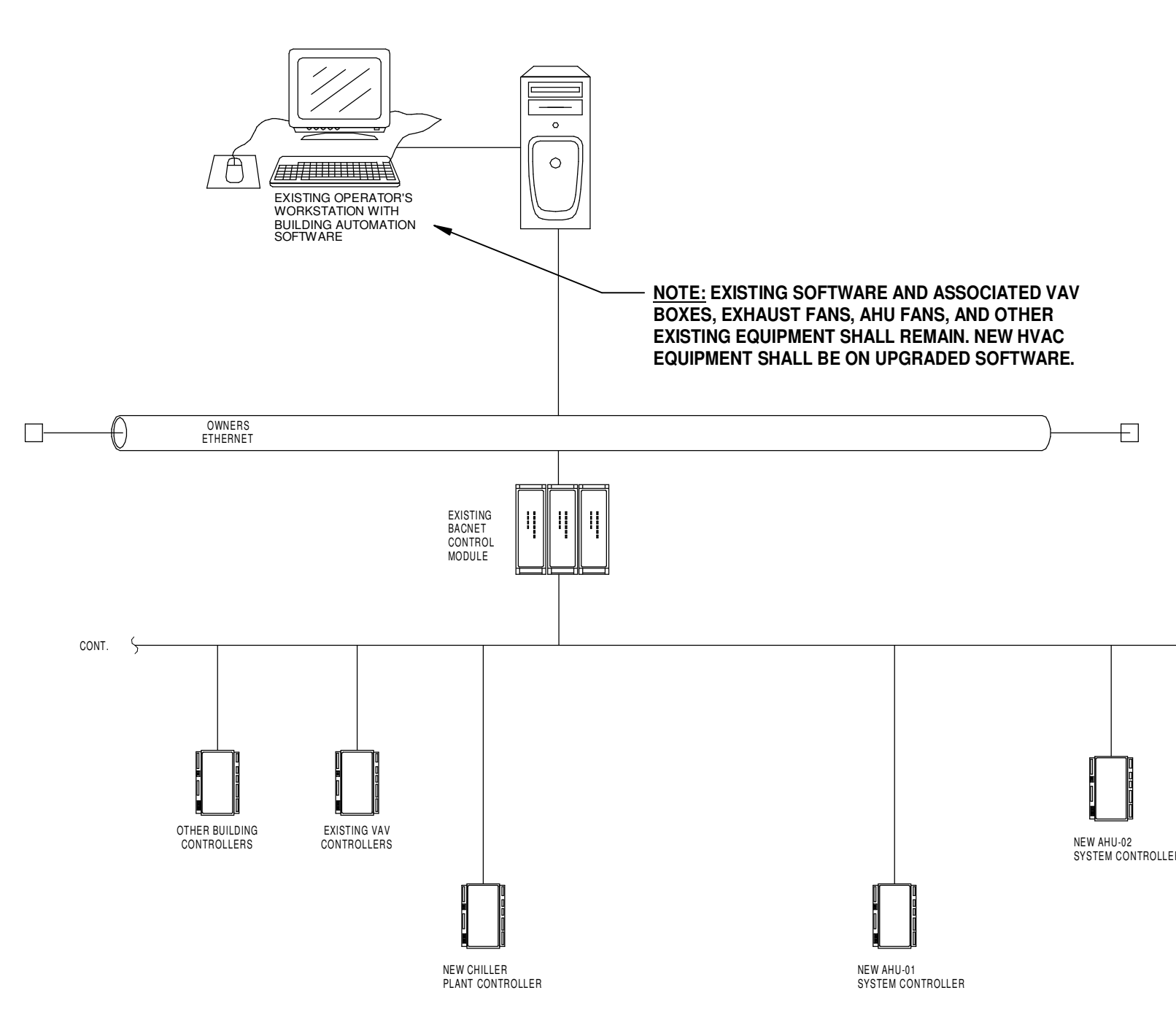
SHALL BE A PROTECTION MODE
WHEN THE TEMPERATURE SENSED AT THE CHILLER ENCLOSURE TEMPERATURE SENSOR MOUNTED AT CHILLER, CH-01, FALLS BELOW ITS SETPOINT OF 37 DEG. F (A.O.), BOTH CHILLER INLET VALVES SHALL OPEN. WHEN THE VALVES ARE FULLY OPEN AS VERIFIED BY VALVE END SWITCHES, THE CHILLER CONTROL PANEL SHALL SIGNAL THE BAS TO OPEN THE MINIMUM FLOW CHILLER BYPASS VALVE AND IN SEQUENCE, START THE LEAD CHILLED WATER PUMP. PUMP SHALL RUN AT ITS MINIMUM FLOW SETPOINT. WHEN THE TEMPERATURE SENSED AT THE CHILLER ENCLOSURE TEMPERATURE SENSOR EXCEEDS ITS SETPOINT FOR A PERIOD OF 10 MINUTES (A.O.), THE LEAD CHILLED WATER PUMP SHALL STOP. THE MINIMUM FLOW CHILLER BYPASS VALVE SHALL CLOSE, AND IN SEQUENCE, THE CHILLER INLET VALVES SHALL CLOSE.



3 KITCHEN VAV TERMINAL CONTROLS
NOT TO SCALE

REYNOLD'S CENTER OUTSIDE AIR DAMPERS
CONTROL COORDINATION/NOTES
UPGRADE AND MODIFY THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) AS REQUIRED TO INCORPORATE THE NEW MINIMUM OUTSIDE AIR DAMPERS AND ASSOCIATED AIRFLOW MEASURING STATIONS INTO THE EXISTING BAS SYSTEM. THE UPGRADE AND MODIFICATION OF THE EXISTING BAS SYSTEM SHALL FACILITATE THE SEQUENCES OF OPERATION INDICATED AND PROVIDE FOR SYSTEM OPERATING, MONITORING, AND ALARM POINTS.

OUTSIDE AIR SEQUENCE OF OPERATION/TYPICAL FOR THE TWO BUILDINGS AIR HANDLING UNITS
BOTH THE NEW AND EXISTING OUTSIDE AIR DAMPERS SHALL BE INTERLOCKED WITH THE EXISTING RELIEF AIR DAMPER TO BE CLOSED ON AIR HANDLING UNIT START-UP, WITH THE UNIT'S RETURN AIR DAMPER BEING FULLY OPEN.
ONCE RETURN AIR EXCEEDS 68 DEG. F, BOTH THE NEW MINIMUM OUTSIDE AIR DAMPER AND THE EXISTING OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION. IF THE AIR HANDLING UNIT IS NOT IN ECONOMIZER CYCLE, THE EXISTING OUTSIDE AIR DAMPER SHALL CLOSE AND THE NEW MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIR FLOW AS REQUIRED BY THE NEW MINIMUM OUTSIDE AIR FLOW MEASURING STATION. THE EXISTING BUILDING DIFFERENTIAL PRESSURE SENSOR SHALL OVERRIDE THE AIRFLOW MEASURING STATION SETPOINT AS REQUIRED TO INCREASE OUTSIDE AIR INTAKE FOR SPACE PRESURIZATION. MINIMUM OUTSIDE AIR SETPOINT FOR BOTH AHU-01 AND AHU-02 IS 5,750 CFM (A.O.).
IF THE AIR HANDLING UNIT IS IN ECONOMIZER CYCLE, THE NEW MINIMUM OUTSIDE AIR DAMPER SHALL CLOSE AND THE EXISTING OUTSIDE AIR DAMPER SHALL OPEN AND OPERATE UNDER THE EXISTING SEQUENCE OF OPERATION FOR ECONOMIZER CYCLE, WITH OUTSIDE AIR FLOW MEASURED BY EXISTING AIRFLOW MEASURING STATIONS.

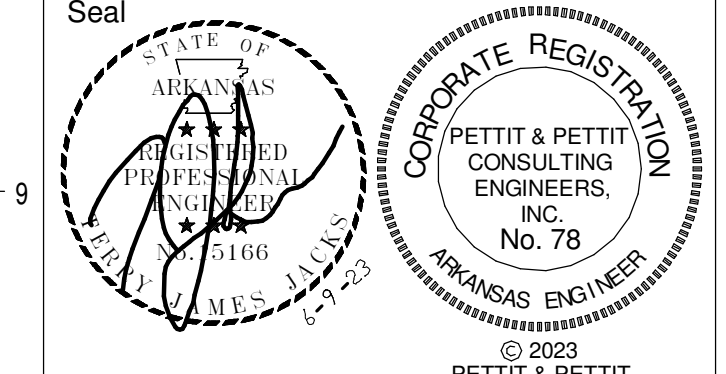


4 REYNOLD'S CENTER BUILDING AUTOMATION SYSTEM (BAS) RISER DIAGRAM
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NOTE: EXISTING SOFTWARE AND ASSOCIATED VAV BOXES, EXHAUST FANS, AHU FANS, AND OTHER EXISTING EQUIPMENT SHALL REMAIN. NEW HVAC EQUIPMENT SHALL BE ON UPGRADED SOFTWARE.

KITCHEN VAV TERMINAL
FAN POWERED VAV TERMINAL SEQUENCE OF OPERATION
IN OCCUPIED MODE: ON A CALL FOR HEATING, THE FAN POWERED BOX TERMINALS SHALL MODULATE PRIMARY SYSTEM AIR FROM MINIMUM TO MAXIMUM AS REQUIRED TO SATISFY SPACE COOLING SETPOINT.
IN OCCUPIED MODE: ON A CALL FOR HEATING, THE FAN POWERED BOX TERMINALS SHALL FIRST MODULATE TO MINIMUM PRIMARY SUPPLY AIR FLOW, THEN THE FAN STARTS. THEN THE HEATING IS ENGAGED AS REQUIRED TO MAINTAIN SPACE HEATING SETPOINT.
IN UNOCCUPIED MODE, THE AHU IS OFF. THE SUPPLY AIR DAMPER SHALL BE AT MINIMUM POSITION AND THE FAN AND HEATING COIL SHALL INSEQUENCE TO MAINTAIN THE UNOCCUPIED SETPOINT TEMPERATURE.

2 REYNOLD'S CENTER - NEW MINIMUM OUTSIDE AIR
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Sheet No. **M6.01**

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Project Name: Autodesk Docs/ASU Mid-South Chiller Replacement/23-008 ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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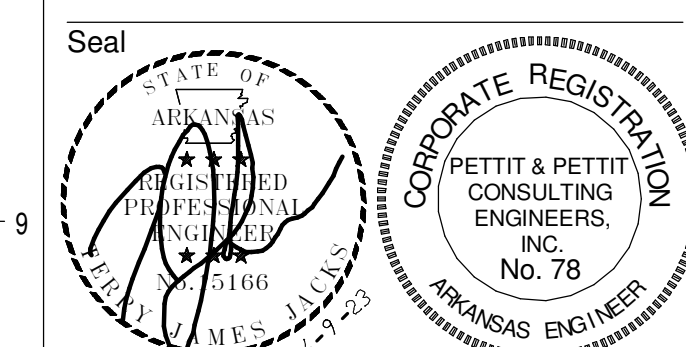
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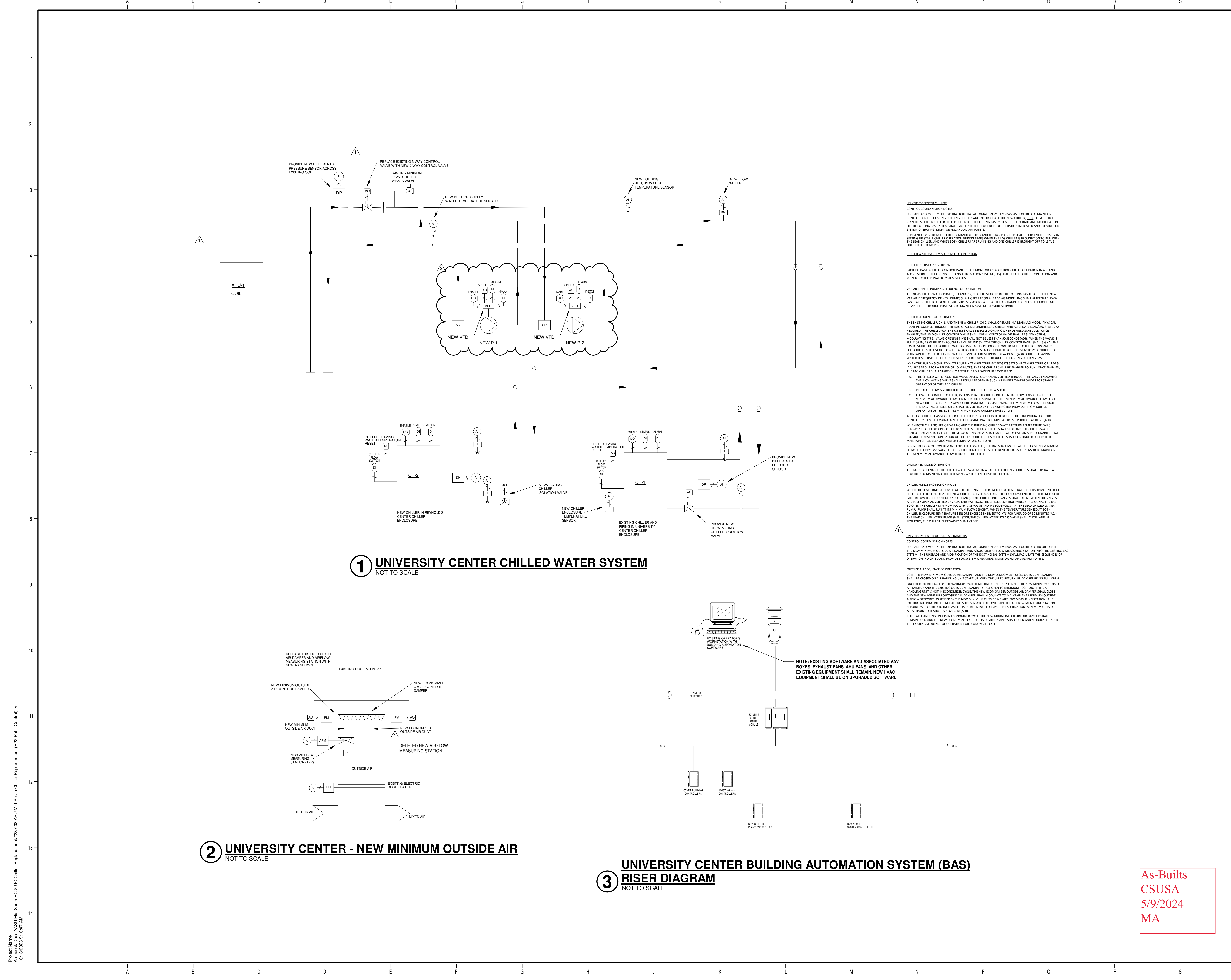
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Title 06.09.23

HVAC CONTROLS
Sheet No.
M6.02



UNIVERSITY CENTER CHILLERS
CONTROL COORDINATION NOTES
UPGRADE AND MODIFY THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) AS REQUIRED TO MAINTAIN CONTROL FOR THE EXISTING BUILDING CHILLER AND INCORPORATE THE NEW CHILLER, CH-2, LOCATED IN THE REYNOLDS CENTER CHILLER ENCLOSURE. THE EXISTING BAS SYSTEM SHALL FACILITATE THE SEQUENCES OF OPERATION INDICATED AND PROVIDE FOR SYSTEM OPERATING, MONITORING, AND ALARM POINTS.
REPRESENTATIVES FROM THE CHILLER MANUFACTURER AND THE BAS PROVIDER SHALL COORDINATE CLOSELY IN SETTING UP STABLE CHILLER OPERATION DURING TIMES WHEN THE LAG CHILLER IS BROUGHT ON TO RUN WITH THE LEAD CHILLER, AND WHEN BOTH CHILLERS ARE RUNNING AND ONE CHILLER IS BROUGHT OFF TO LEAVE ONE CHILLER RUNNING.

CHILLED WATER SYSTEM SEQUENCE OF OPERATION
CHILLER OPERATION OVERVIEW
EACH PACKAGED CHILLER CONTROL PANEL SHALL MONITOR AND CONTROL CHILLER OPERATION IN A STAND-ALONE MODE. THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) SHALL ENABLE CHILLER OPERATION AND MONITOR CHILLED WATER SYSTEM STATUS.

VARIABLE SPEED PLUMBING SEQUENCE OF OPERATION
THE NEW CHILLED WATER PUMPS, P-1 AND P-2, SHALL BE STARTED BY THE EXISTING BAS THROUGH THE NEW VARIABLE FREQUENCY DRIVES. PUMPS SHALL OPERATE ON A LEAD/LAG MODE. BAS SHALL ALTERNATE LEAD/LAG STATUS. THE DIFFERENTIAL PRESSURE SENSOR LOCATED AT THE AIR HANDLING UNIT SHALL MODULATE PUMP SPEED THROUGH PUMP VFD TO MAINTAIN SYSTEM PRESSURE SETPOINT.

CHILLER SEQUENCE OF OPERATION
THE EXISTING CHILLER, CH-1, AND THE NEW CHILLER, CH-2, SHALL OPERATE IN A LEAD/LAG MODE. PHYSICAL PLANT PERSONNEL THROUGH THE BAS SHALL DETERMINE LEAD CHILLER AND ALTERNATE LEAD/LAG STATUS AS REQUIRED. THE CHILLED WATER SYSTEM SHALL BE ENABLED ON AN OWNER DEFINED SCHEDULE. ONCE ENABLED, THE LEAD CHILLER CONTROL VALVE SHALL OPEN. CONTROL VALVE SHALL BE SLOW ACTING, MODULATING TYPE. VALVE OPENING TIME SHALL NOT BE LESS THAN 90 SECONDS (AG). WHEN THE VALVE IS FULLY OPEN, AS VERIFIED THROUGH THE VALVE END SWITCH, THE CHILLER CONTROL PANEL SHALL SIGNAL THE BAS TO START THE LEAD CHILLED WATER PUMP. AFTER PROOF OF FLOW FROM THE CHILLER FLOW SWITCH, LEAD CHILLER SHALL START. ONCE STARTED, CHILLER SHALL OPERATE THROUGH THE FACTORY CONTROL TO MAINTAIN THE CHILLER LEAVING WATER TEMPERATURE SETPOINT OF 42 DEG. F (AG). CHILLER LEAVING WATER TEMPERATURE SETPOINT MUST BE CAPABLE THROUGH THE EXISTING BUILDING BAS. WHEN THE BUILDING CHILLED WATER SUPPLY TEMPERATURE EXCEEDS ITS SETPOINT TEMPERATURE OF 42 DEG. AND/OR 1 DEG. F FOR A PERIOD OF 30 MINUTES, THE LAG CHILLER SHALL BE ENABLED TO RUN. ONCE ENABLED, THE LAG CHILLER SHALL START ONLY AFTER THE FOLLOWING HAS OCCURRED:
A. THE CHILLED WATER CONTROL VALVE OPENS FULLY AND IS VERIFIED THROUGH THE VALVE END SWITCH. THE SLOW ACTING VALVE SHALL MODULATE OPEN IN SUCH A MANNER THAT PROVIDES FOR STABLE OPERATION OF THE LEAD CHILLER.
B. PROOF OF FLOW IS VERIFIED THROUGH THE CHILLER FLOW SWITCH.
C. FLOW THROUGH THE CHILLER, AS SENSED BY THE CHILLER DIFFERENTIAL FLOW SENSOR, EXCEEDS THE MINIMUM ALLOWABLE FLOW FOR A PERIOD OF 30 MINUTES. THE MINIMUM ALLOWABLE FLOW FOR THE NEW CHILLER, CH-2, IS 932 GPM CORRESPONDING TO 2.48 FT WPG. THE MINIMUM FLOW THROUGH THE EXISTING CHILLER, CH-1, SHALL BE VERIFIED BY THE EXISTING BAS PROVIDER FROM CURRENT OPERATION OF THE EXISTING MINIMUM FLOW CHILLER BYPASS VALVE.

AFTER LAG CHILLER HAS STARTED, BOTH CHILLERS SHALL OPERATE THROUGH THEIR INDIVIDUAL FACTORY CONTROL SYSTEMS TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT OF 42 DEG. F (AG). WHEN BOTH CHILLERS ARE OPERATING AND THE BUILDING CHILLED WATER RETURN TEMPERATURE FALLS BELOW 34 DEG. F FOR A PERIOD OF 30 MINUTES, THE LAG CHILLER SHALL STOP AND THE CHILLED WATER CONTROL VALVE SHALL CLOSE. THE SLOW ACTING VALVE SHALL MODULATE CLOSED IN SUCH A MANNER THAT PROVIDES FOR STABLE OPERATION OF THE LEAD CHILLER. LEAD CHILLER SHALL CONTINUE TO OPERATE TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT.
DURING PERIODS OF LOW DEMAND FOR CHILLED WATER, THE BAS SHALL MODULATE THE EXISTING MINIMUM FLOW CHILLER BYPASS VALVE THROUGH THE LEAD CHILLER'S DIFFERENTIAL PRESSURE SENSOR TO MAINTAIN THE MINIMUM ALLOWABLE FLOW THROUGH THE CHILLER.

UNDOOPER MODE OPERATION
THE BAS SHALL ENABLE THE CHILLED WATER SYSTEM ON A CALL FOR COOLING. CHILLERS SHALL OPERATE AS REQUIRED TO MAINTAIN CHILLER LEAVING WATER TEMPERATURE SETPOINT.

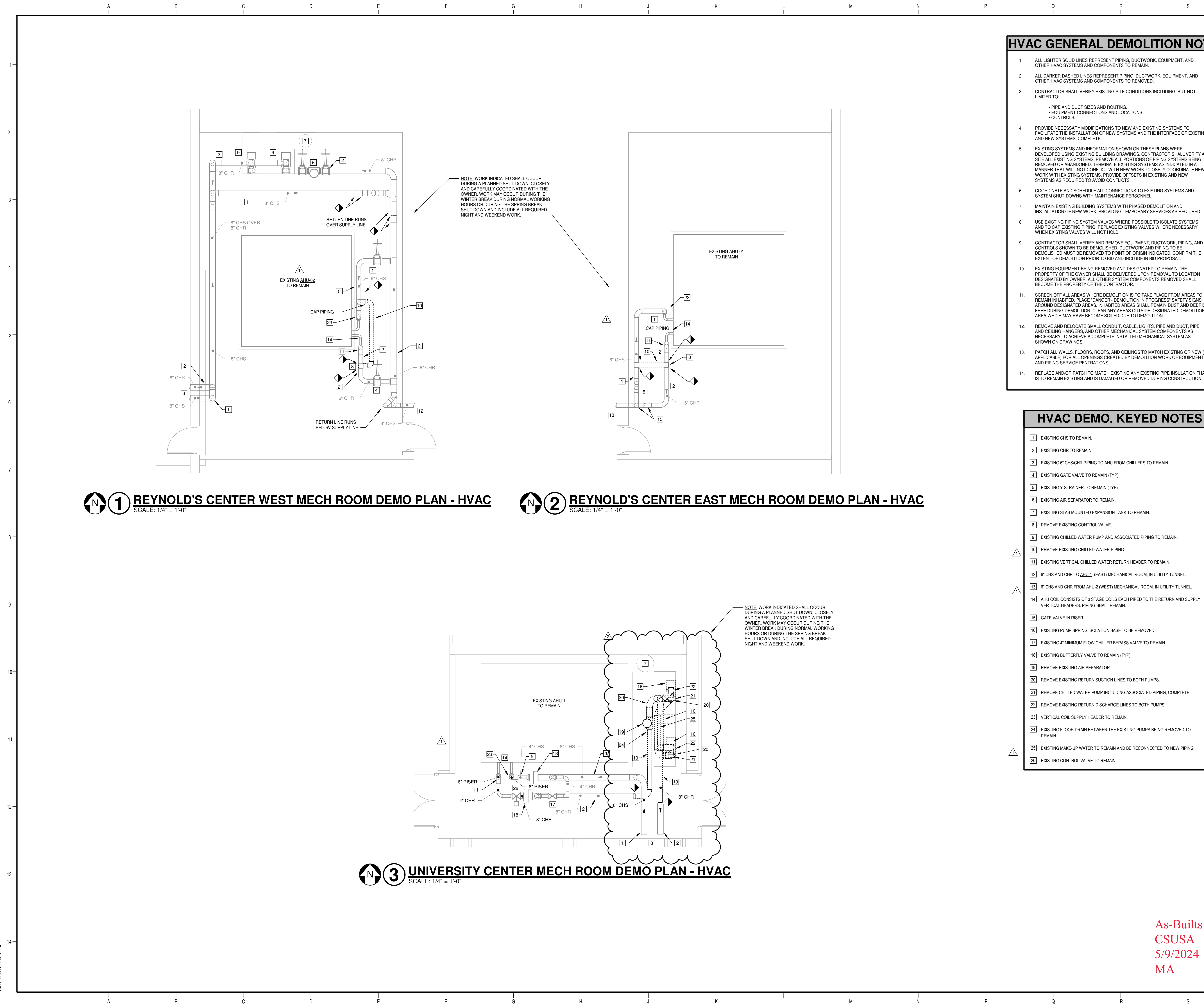
CHILLER FREEZE PROTECTION MODE
WHEN THE TEMPERATURE SENSED AT THE EXISTING CHILLER ENCLOSURE TEMPERATURE SENSOR MOUNTED AT EITHER CHILLER, CH-1, OR AT THE NEW CHILLER, CH-2, LOCATED IN THE REYNOLDS CENTER CHILLER ENCLOSURE FALLS BELOW ITS SETPOINT OF 37 DEG. F (AG), BOTH CHILLER INLET VALVES SHALL OPEN. WHEN THE VALVES ARE FULLY OPEN AS VERIFIED BY VALVE END SWITCHES, THE CHILLER CONTROL PANEL SHALL SIGNAL THE BAS TO OPEN THE CHILLER MINIMUM FLOW BYPASS VALVE AND THE SEQUENCING START THE LEAD CHILLED WATER PUMP. PUMP SHALL RUN AT ITS MINIMUM FLOW SETPOINT. WHEN THE TEMPERATURE SENSED AT BOTH CHILLER ENCLOSURE TEMPERATURE SENSORS EXCEEDS THEIR SETPOINTS FOR A PERIOD OF 30 MINUTES (AG), THE LEAD CHILLED WATER PUMP SHALL STOP. THE CHILLED WATER PUMP SHALL STOP, AND IN SEQUENCE, THE CHILLER INLET VALVES SHALL CLOSE.

UNIVERSITY CENTER OUTSIDE AIR DAMPERS
CONTROL COORDINATION NOTES
UPGRADE AND MODIFY THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) AS REQUIRED TO INCORPORATE THE NEW MINIMUM OUTSIDE AIR DAMPER AND ASSOCIATED AIR FLOW MEASURING STATION INTO THE EXISTING BAS SYSTEM. THE UPGRADE AND MODIFICATION OF THE EXISTING BAS SYSTEM SHALL FACILITATE THE SEQUENCES OF OPERATION INDICATED AND PROVIDE FOR SYSTEM OPERATING, MONITORING, AND ALARM POINTS.

OUTSIDE AIR SEQUENCE OF OPERATION
BOTH THE NEW MINIMUM OUTSIDE AIR DAMPER AND THE NEW ECONOMIZER CYCLE OUTSIDE AIR DAMPER SHALL BE CLOSED ON AIR HANDLING UNIT START-UP, WITH THE UNIT'S RETURN AIR DAMPER BEING FULL OPEN. ONCE RETURN AIR EXCEEDS THE WARMUP CYCLE TEMPERATURE SETPOINT, BOTH THE NEW MINIMUM OUTSIDE AIR DAMPER AND THE EXISTING OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION. IF THE AIR HANDLING UNIT IS NOT IN ECONOMIZER CYCLE, THE NEW ECONOMIZER OUTSIDE AIR DAMPER SHALL CLOSE AND THE NEW MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIR FLOW SETPOINT, AS SENSED BY THE NEW MINIMUM OUTSIDE AIR AIR FLOW MEASURING STATION. THE EXISTING BUILDING DIFFERENTIAL PRESSURE SENSOR SHALL OVERRIDE THE AIR FLOW MEASURING STATION SETPOINT AS REQUIRED TO INCREASE OUTSIDE AIR INTAKE FOR SPACE PRESSURIZATION. MINIMUM OUTSIDE AIR SETPOINT FOR AHU-1 IS 15.075 CFM (AG).
IF THE AIR HANDLING UNIT IS IN ECONOMIZER CYCLE, THE NEW MINIMUM OUTSIDE AIR DAMPER SHALL REMAIN OPEN AND THE NEW ECONOMIZER CYCLE OUTSIDE AIR DAMPER SHALL OPEN AND MODULATE UNDER THE EXISTING SEQUENCE OF OPERATION FOR ECONOMIZER CYCLE.

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HVAC GENERAL DEMOLITION NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, AND OTHER HVAC SYSTEMS AND COMPONENTS TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, AND OTHER HVAC SYSTEMS AND COMPONENTS TO BE REMOVED.
3. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
 - PIPE AND DUCT SIZES AND ROUTING.
 - EQUIPMENT CONNECTIONS AND LOCATIONS.
 - CONTROLS.
4. PROVIDE NECESSARY MODIFICATIONS TO NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION OF NEW SYSTEMS AND THE INTERFACE OF EXISTING AND NEW SYSTEMS, COMPLETE.
5. EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. REMOVE ALL PORTIONS OF PIPING SYSTEMS BEING REMOVED OR ABANDONED. TERMINATE EXISTING SYSTEMS AS INDICATED IN A MANNER THAT WILL NOT CONFLICT WITH NEW WORK. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
6. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH MAINTENANCE PERSONNEL.
7. MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
8. USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES WILL NOT HOLD.
9. CONTRACTOR SHALL VERIFY AND REMOVE EQUIPMENT, DUCTWORK, PIPING, AND CONTROLS SHOWN TO BE DEMOLISHED. DUCTWORK AND PIPING TO BE DEMOLISHED MUST BE REMOVED TO POINT OF ORIGIN INDICATED. CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL.
10. EXISTING EQUIPMENT BEING REMOVED AND DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY OWNER. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
11. SCREEN OFF ALL AREAS WHERE DEMOLITION IS TO TAKE PLACE FROM AREAS TO REMAIN INHABITED. PLACE "DANGER - DEMOLITION IN PROGRESS" SAFETY SIGNS AROUND DESIGNATED AREAS. INHABITED AREAS SHALL REMAIN DUST AND DEBRIS FREE DURING DEMOLITION. CLEAN ANY AREAS OUTSIDE DESIGNATED DEMOLITION AREA WHICH MAY HAVE BECOME SOILED DUE TO DEMOLITION.
12. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, LIGHTS, PIPE AND DUCT, PIPE AND CEILING HANGERS, AND OTHER MECHANICAL SYSTEM COMPONENTS AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
13. PATCH ALL WALLS, FLOORS, ROOFS, AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLICABLE) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND PIPING SERVICE PENETRATIONS.
14. REPLACE AND/OR PATCH TO MATCH EXISTING ANY EXISTING PIPE INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.

HVAC DEMO. KEYED NOTES

- 1 EXISTING CHS TO REMAIN.
- 2 EXISTING CHR TO REMAIN.
- 3 EXISTING 6" CHS/CHR PIPING TO AHU FROM CHILLERS TO REMAIN.
- 4 EXISTING GATE VALVE TO REMAIN (TYP).
- 5 EXISTING Y-STRAINER TO REMAIN (TYP).
- 6 EXISTING AIR SEPARATOR TO REMAIN.
- 7 EXISTING SLAB MOUNTED EXPANSION TANK TO REMAIN.
- 8 REMOVE EXISTING CONTROL VALVE.
- 9 EXISTING CHILLED WATER PUMP AND ASSOCIATED PIPING TO REMAIN.
- 10 REMOVE EXISTING CHILLED WATER PIPING.
- 11 EXISTING VERTICAL CHILLED WATER RETURN HEADER TO REMAIN.
- 12 6" CHS AND CHR TO AHU1 (EAST) MECHANICAL ROOM, IN UTILITY TUNNEL.
- 13 6" CHS AND CHR FROM AHU2 (WEST) MECHANICAL ROOM, IN UTILITY TUNNEL.
- 14 AHU COIL CONSISTS OF 3 STAGE COILS EACH PIPED TO THE RETURN AND SUPPLY VERTICAL HEADERS. PIPING SHALL REMAIN.
- 15 GATE VALVE IN RISER.
- 16 EXISTING PUMP SPRING ISOLATION BASE TO BE REMOVED.
- 17 EXISTING 4" MINIMUM FLOW CHILLER BYPASS VALVE TO REMAIN.
- 18 EXISTING BUTTERFLY VALVE TO REMAIN (TYP).
- 19 REMOVE EXISTING AIR SEPARATOR.
- 20 REMOVE EXISTING RETURN SUCTION LINES TO BOTH PUMPS.
- 21 REMOVE CHILLED WATER PUMP INCLUDING ASSOCIATED PIPING, COMPLETE.
- 22 REMOVE EXISTING RETURN DISCHARGE LINES TO BOTH PUMPS.
- 23 VERTICAL COIL SUPPLY HEADER TO REMAIN.
- 24 EXISTING FLOOR DRAIN BETWEEN THE EXISTING PUMPS BEING REMOVED TO REMAIN.
- 25 EXISTING MAKE-UP WATER TO REMAIN AND BE RECONNECTED TO NEW PIPING.
- 26 EXISTING CONTROL VALVE TO REMAIN.

**ASU Mid-South
Chiller
Replacement**

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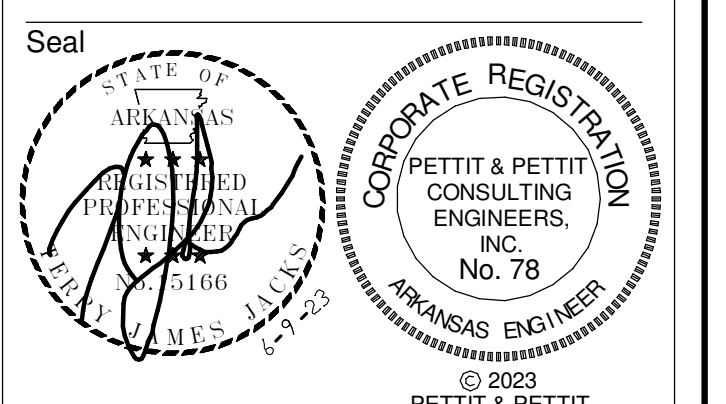
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CONSTRUCTION DOCUMENTS



No.	Issue	Date
ASI #1		08-17-23
PR #3		10-13-23

Job No. ASUMCH23.00
Date 06.09.23
Title

**DEMOLITION
PLANS - HVAC**
Sheet No. **MD1.01**

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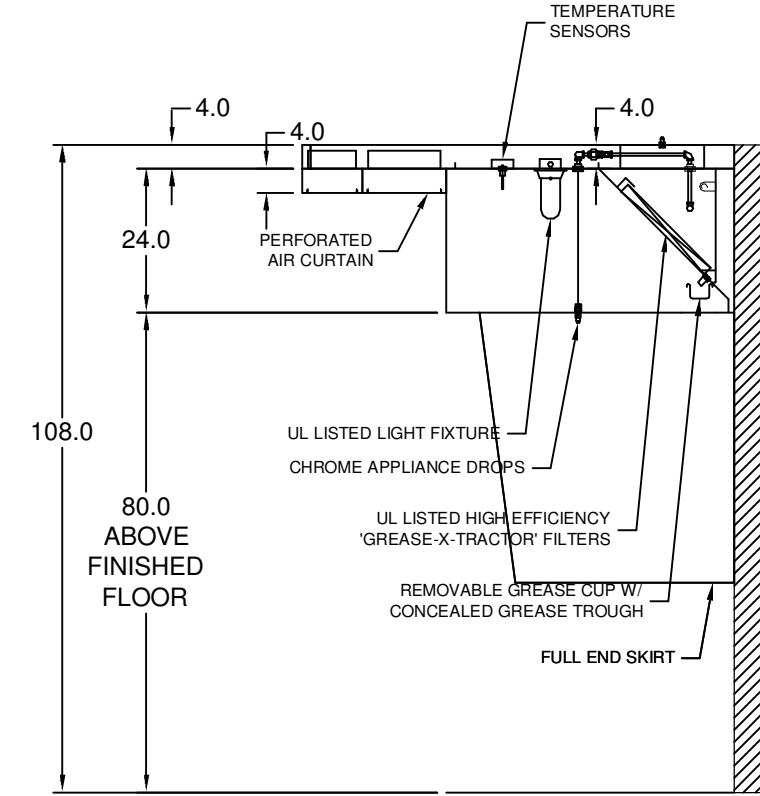
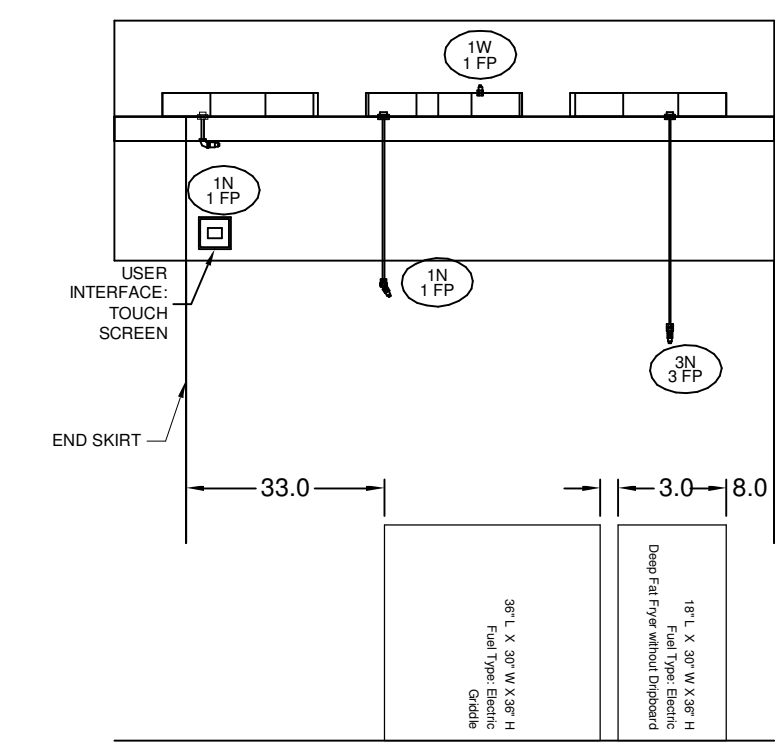
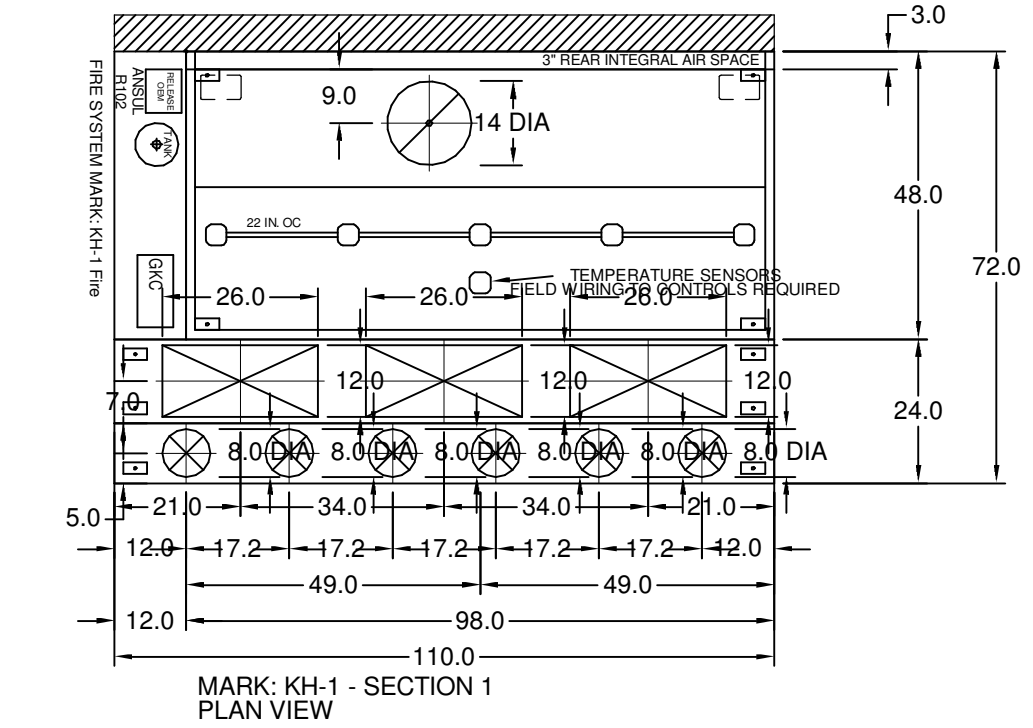
Project Name: ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD/DUTY RATING	TOTAL CFM	EXHAUST COLLAR(S)			SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.		
1	KH-1	GKEW-98-S	98	48	24	430 SS W/HEAVY EXPOSED	1800	14	1800	0.682	1440	504	262.204	SINGLE	

HOOD NO.	MARK	LIGHTING DETAILS		FOOT CANDLE(S)	GREASE FILTRATION DETAILS			UTILITY CABINET(S)							
		FIXTURE TYPE	BULB / LAMP INFO		TYPE / MODEL	SIZE (IN.)	LOCATION	FIRE SYSTEM	TYPE	SIZE	MODEL	INTERFACE			
1	KH-1	INCANDESCENT (GLOBE)	100W A19 (BULBS NOT INCL.)	5	48.61	X-TRACTOR STAINLESS STEEL	6	16	20	20	ANSUL R102	3	12	26	GRC

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)		INSULATED	DAMPERS	LED LIGHT(S)	TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W						H	TYPE	MOUNTING	QTY	W	L	DIA.	CFM
1	KH-1			110	14	4	NO	YES	1440	0.01	M/JA	FACTORY	3	12	26	8	84	241

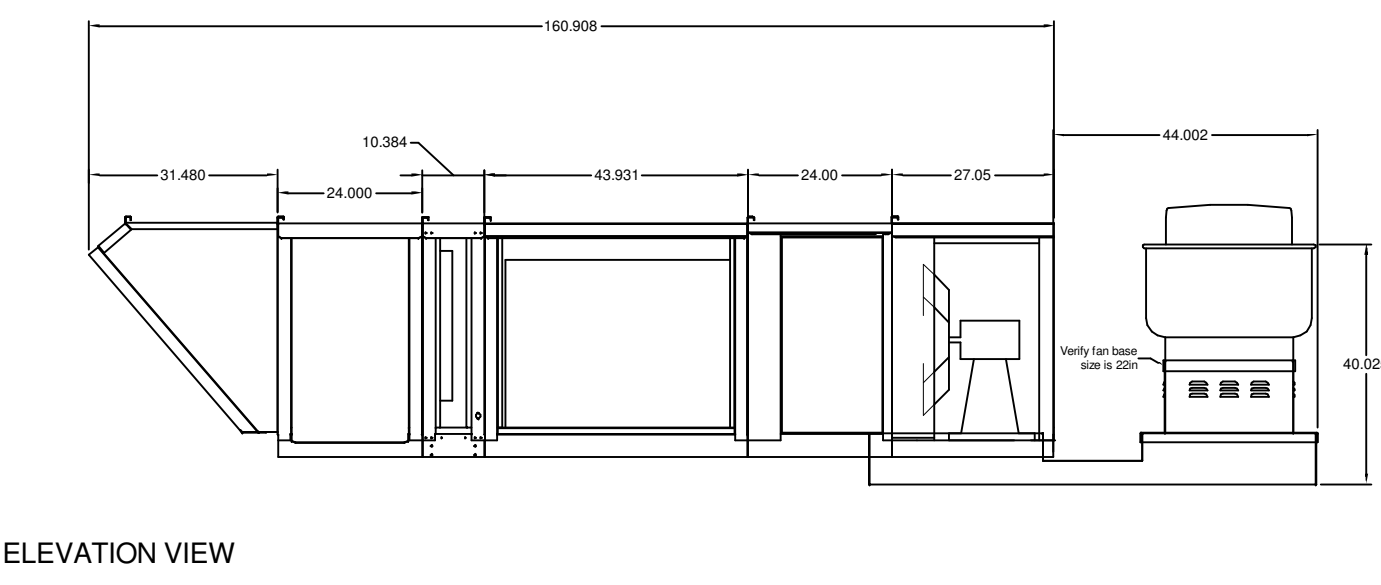
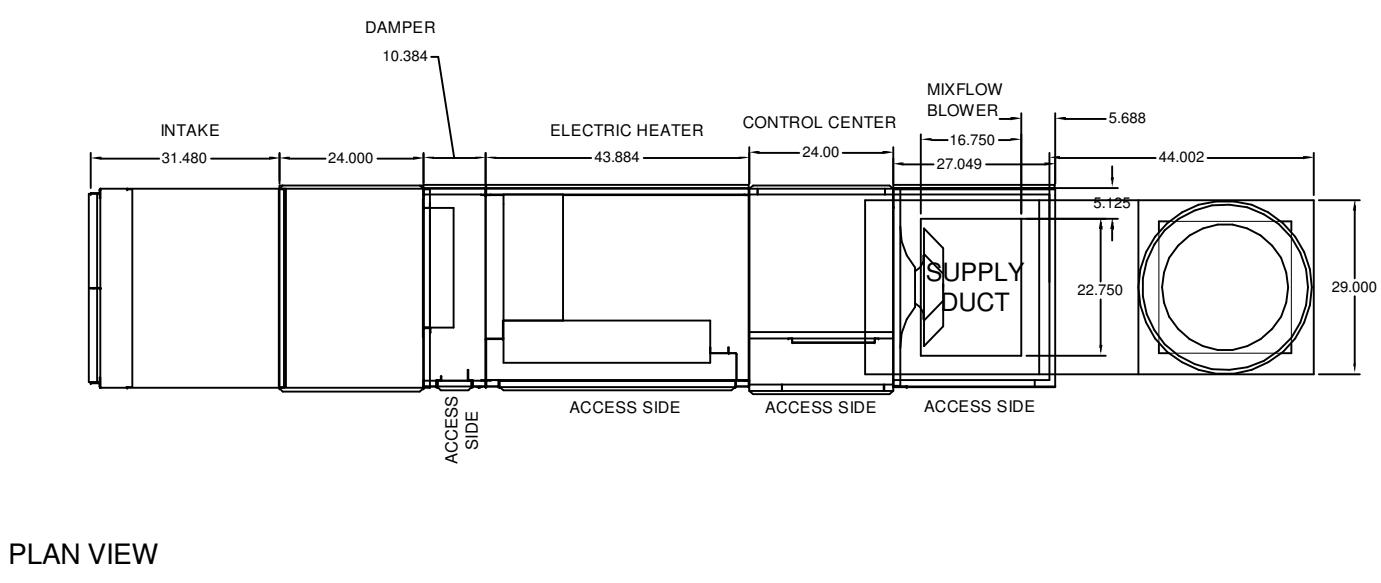
HOOD OPTIONS
 UL 710 LISTED W/OUT EXHAUST FIRE DAMPER - UL MH1726
 BACK INTEGRAL AIR SPACE - 3 IN WIDE
 16 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
 FACTORY MOUNTED EXHAUST COLLAR(S)
 FRONT FULL END SKIRT - 45 IN HIGH 42.50 IN TOP WIDTH 36.5 IN BOTTOM WIDTH
 RIGHT FULL END SKIRT - 45 IN HIGH 42.50 IN TOP WIDTH 36.5 IN BOTTOM WIDTH
 PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
 STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



Qty	Description	Volume	External SP	Total SP	MCA	SCP	Weight	SCQR
1	MXP P112 H12 LPF	1.440 CFM	0.70 in. wg	1.358 in. wg	74.2	80	1.089 lb.	20A

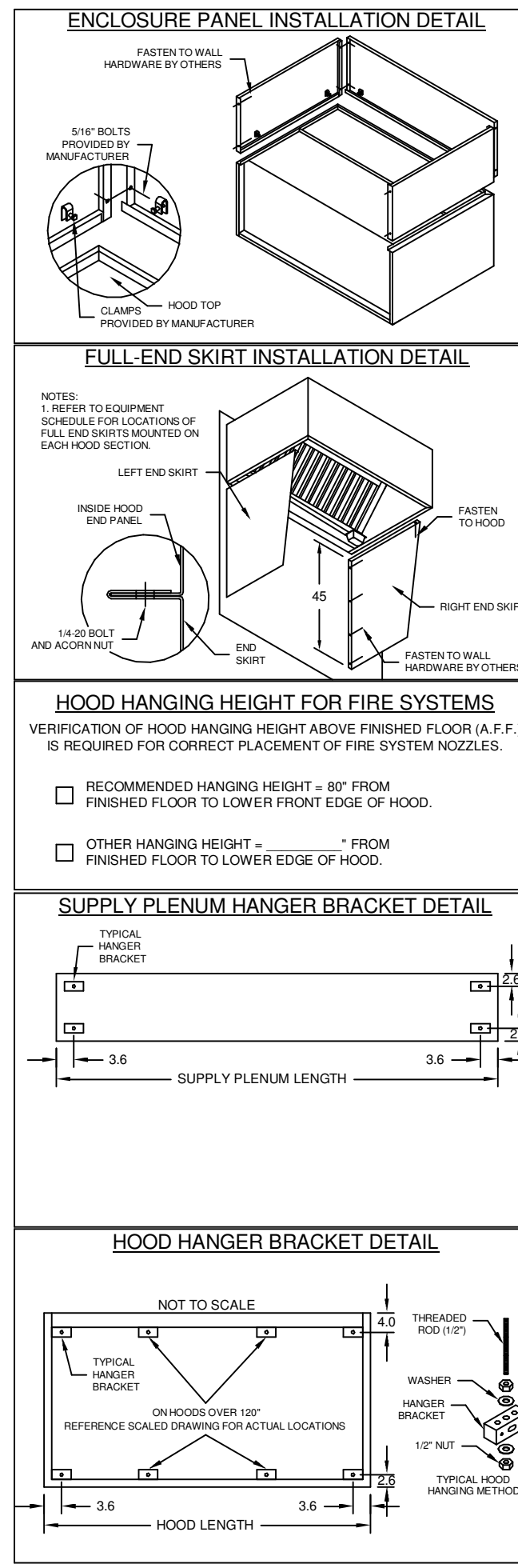
Size	VCP	Encoder	Temp. Control Switching	Motor RPM	Operating Power
1/2 hp	255/603	ONP	No	1725	0.24 kw

Type	Steps	Temperature	Energy	Motor Voltage	MCA	SCP	SCQR
Electric	SCR	15.5 F	44.8 F	65.1 F	56.8 A	74.2	80



NOTE: Roof Opening Requirements:
 Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides. For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.
 Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb. For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb. This is by design, in order to help alleviate water infiltration issues.

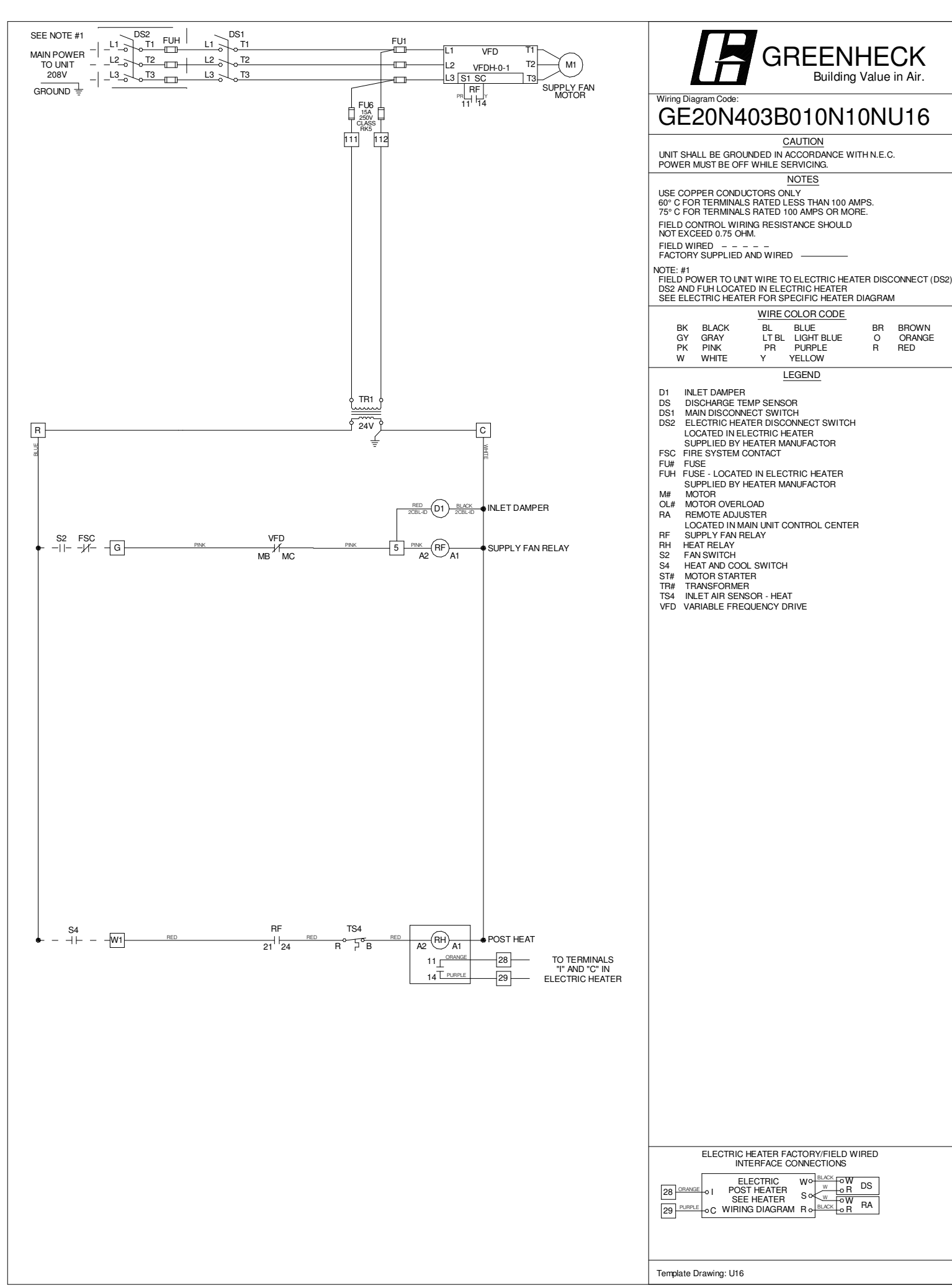
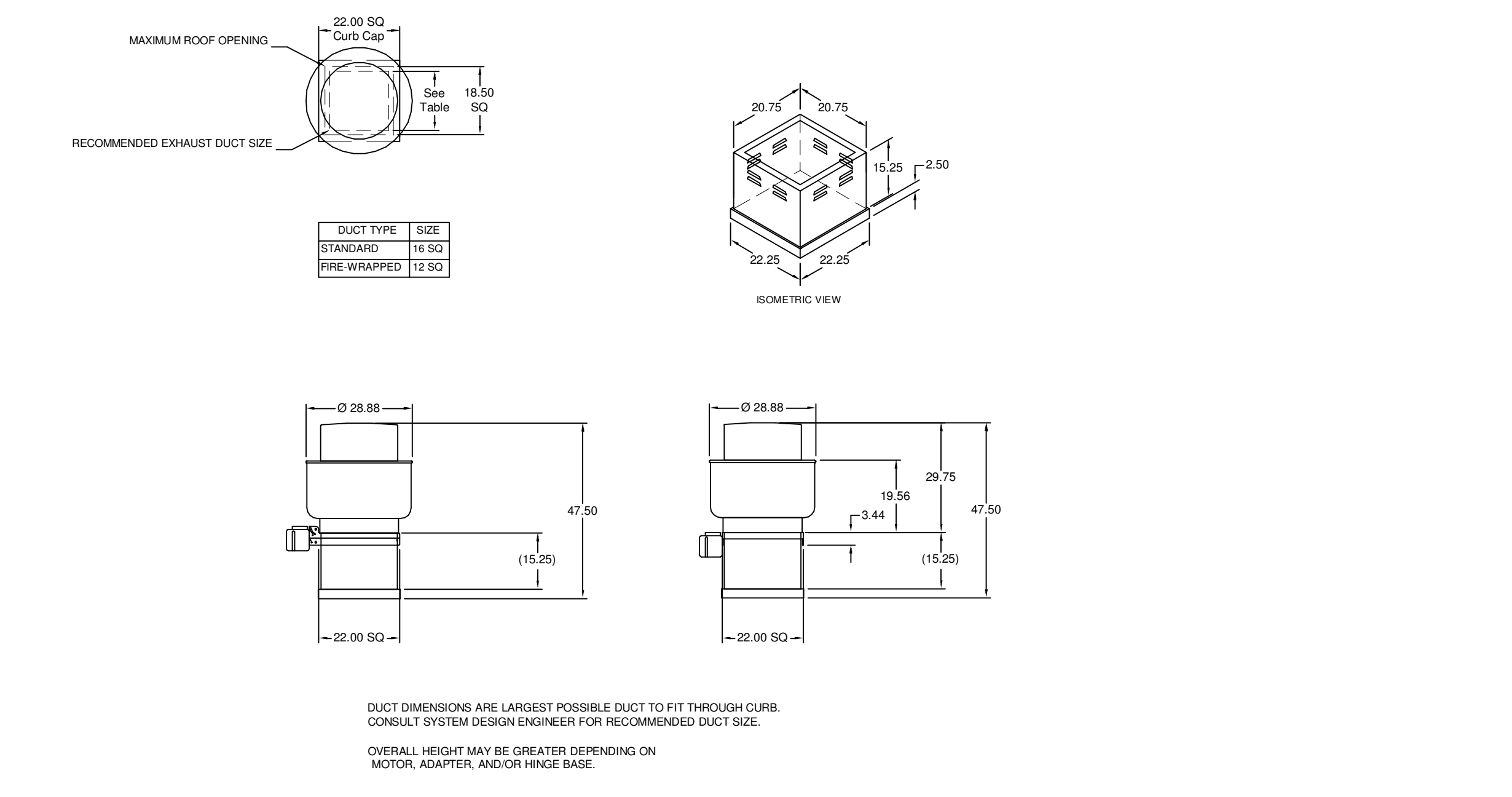


Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (L.B.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	CUBE-140-7	1,800	0.996	1,443	0.62	110	0.75	115/60/1	OP	1725	1	1.6

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory

KEY: 1 - SELECTED OPTIONS AND ACCESSORIES									
Standard Curb Cap Size - 22 Square									
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 782)									
Switch, NEMA-1, Toggle, Shipped with Unit									
Curb Extension Cap., VCE-22-G15.25, Shipped Loose From Factory									
Hinge, Factory Installed									
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)									
Grease Trap (PN 475538)									
Heat Baffle (Attached)									



ASU Mid-South Chiller Replacement

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CONSTRUCTION DOCUMENTS

ARKANSAS STATE UNIVERSITY
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No.	Issue	Date

Job No. _____
 Date _____ ASUMCH23.00
 Title _____ 06.09.23
KITCHEN HOOD SCHEDULES AND DETAILS
 Sheet No. _____

MK1.01

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Project Name: Arkodex Dcs/ASU Mid-South Chiller Replacement (R22 Pettit Central).nt
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CONTROL INFORMATION		ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED											
MARK	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL	
KH-1 CONTROLS	GKC-CV-S-11-1-1-0	LEFT CABINET ON KH-1	FULL COLOR TOUCHSCREEN	HOOD - FACE MOUNT LEFT END OF KH-1 SECTION 1	1	EXHAUST	E1	KEF-1	1	1800	0.75	115	60	1	YES	NO	
					2	SUPPLY	S1	KMAU-1 EH	1	1440	0.5	208	60	3	NO	NO	

CONTROL FEATURES

HOOD LIGHT CONTROL
 TEMP SENSORS (FACTORY INSTALLED) - QTY. 1
 DRY FIRE CONTACTS - QTY. 1
 LIGHTS OFF DURING FIRE
 EXHAUST MAX DURING FIRE
 SUPPLY OFF DURING FIRE



CAUTION
 UNIT MUST BE DEENERGIZED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE WORKING.

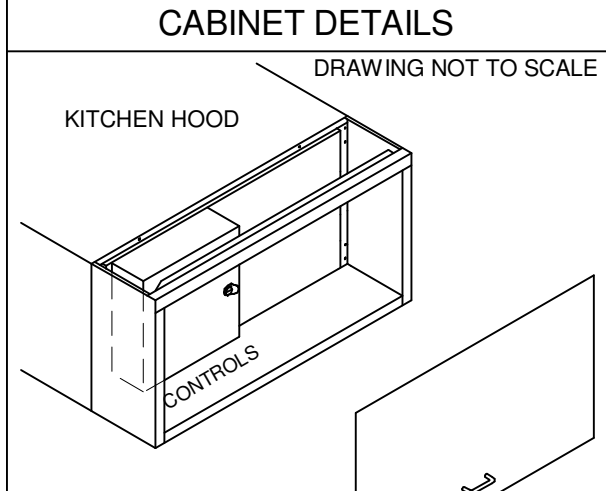
ATTENTION
 LAMP BURNING NOT THE BEST TIME TO SERVICE UNIT. ALLOW UNIT TO COOL BEFORE ATTEMPTING TO REPLACE LAMP. ALWAYS WEAR PROTECTIVE EYEWEAR AND AVOID DIRECT CONTACT WITH HOT SURFACES.

THIS COMPANY SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS DOCUMENT FOR ANY OTHER APPLICATION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL ELECTRICAL CODES AND REGULATIONS.

DO NOT REMOVE THE HOOD LIGHTS FROM THE HOOD UNTIL THE HOOD IS COMPLETELY COOL. THE HOOD LIGHTS ARE DESIGNED TO BE USED IN NORMAL OPERATION ONLY. THE HOOD LIGHTS ARE NOT DESIGNED TO BE USED AS A BACKUP LIGHT SOURCE. THE HOOD LIGHTS ARE NOT DESIGNED TO BE USED AS A EMERGENCY LIGHT SOURCE.

WIRING DIAGRAM CODE

JOB NAME: MID SOUTH COMMUNITY COLLEGE KITCHEN HOOD
MODEL: GKC-CV-S-11-1-1-0
SERIAL NUMBER: WDS/N#
MARK: KH-1 CONTROLS

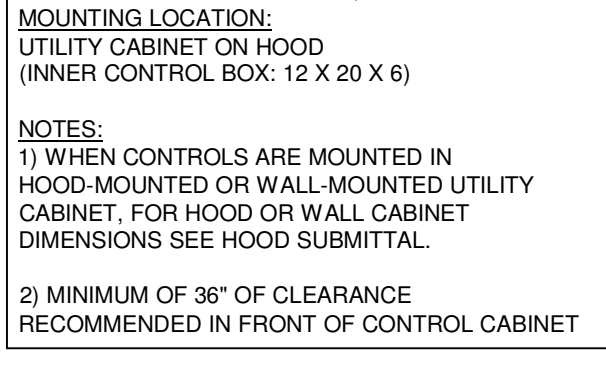


USER INTERFACE DETAILS

MOUNTING TYPE: FACTORY MOUNTED; FACE MOUNT LEFT SIDE OF HOOD

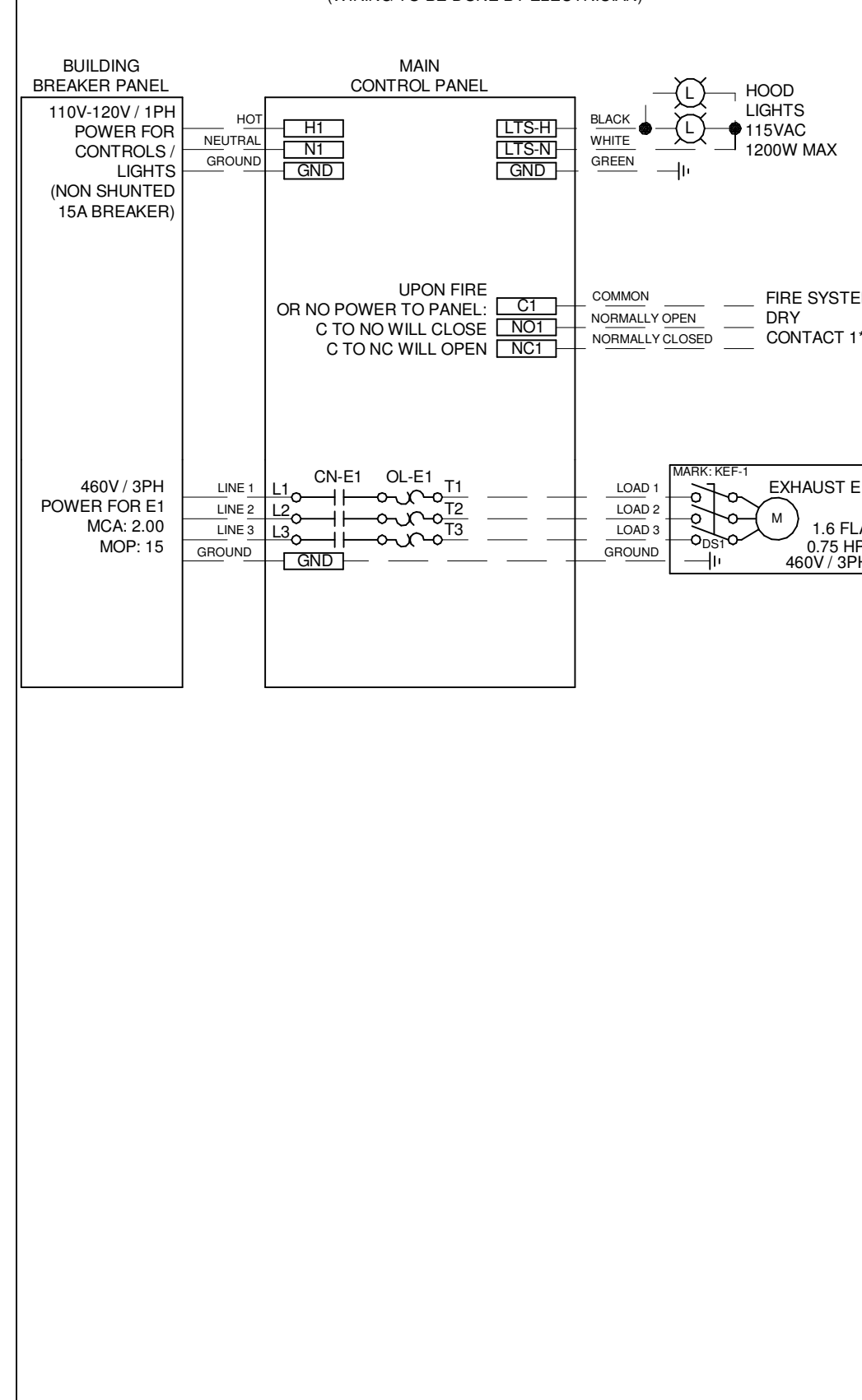
USER INTERFACE CONTROL: FANS AND LIGHTS

INTERFACE CABLE LENGTH: 50FT (FACTORY PROVIDED)

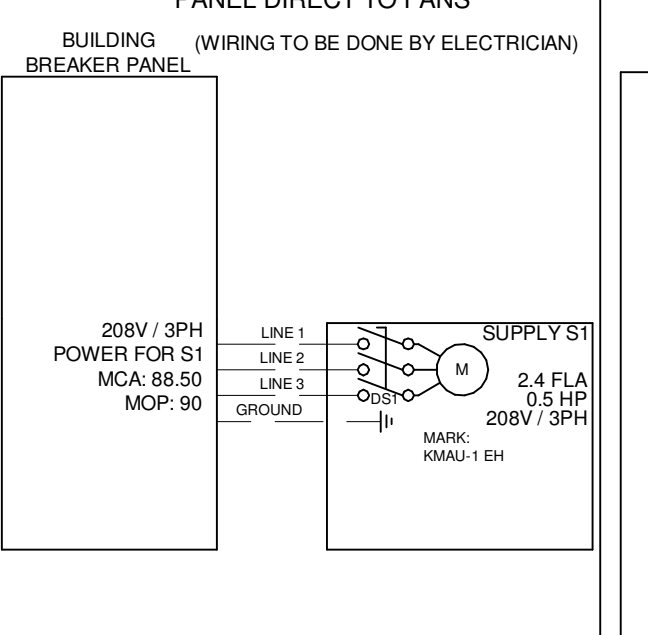


NOTES:
 1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.
 2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET.

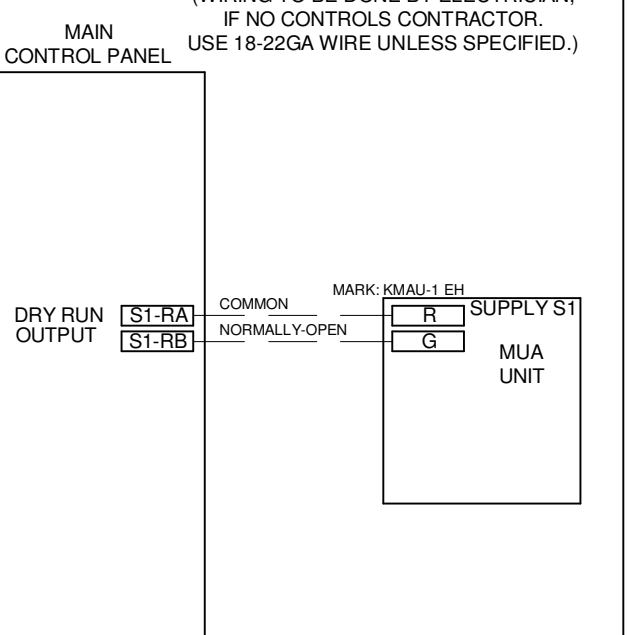
POWER WIRING FOR KITCHEN CONTROLS
 (WIRING TO BE DONE BY ELECTRICIAN)



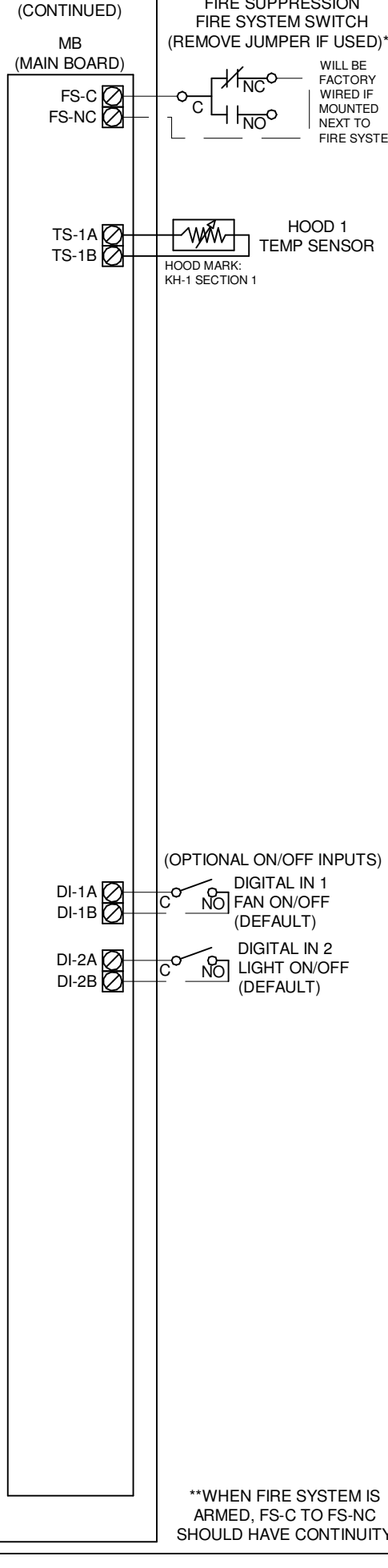
POWER WIRING FROM BREAKER
 PANEL DIRECT TO FANS



WIRING FOR KITCHEN CONTROLS
 (WIRING TO BE DONE BY ELECTRICIAN)



MAIN CONTROL PANEL
 (CONTINUED)



FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

SHUNT TRIP BY OTHERS: WIRING EXAMPLE: COMMON NORMALLY OPEN SHUNT TRIP BREAKER COIL.

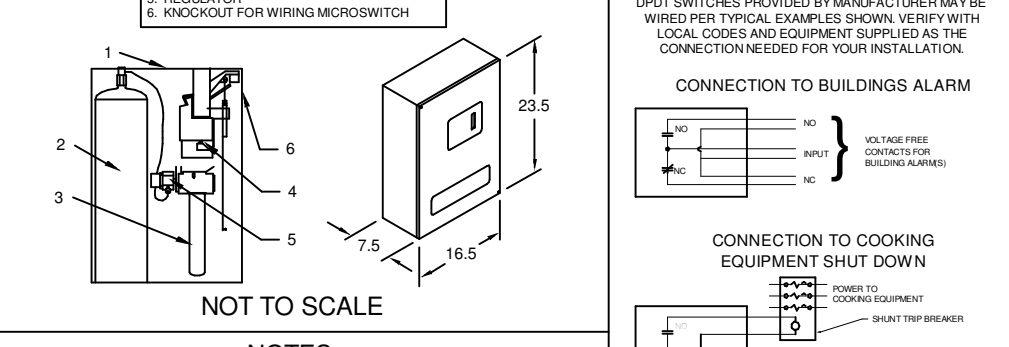
APPLIANCE CONTACTORS (BY OTHERS): WIRING EXAMPLE: COMMON NORMALLY CLOSED APPLIANCE CONTACTOR COIL.

FIRE SYSTEM INFORMATION						
MARK	MODEL	LOCATION	FLOW POINTS	SUPPLY	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
KH-1 FIRE	ANSUL R102 WET CHEMICAL	CABINET - LEFT END OF KH-1	HOODS	PCU	CONTINUOUS	KH-1 SECTION 1
			8 UTILIZED	11 AVAILABLE		

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
 CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
 METAL BLOW-OFF CAPS - INCLUDED
 GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE 2" (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
 HOOD SUPPRESSION TANK - INCLUDED - 3 GAL - (1) 3.0 TANK(S)
 REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC



NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R102 DESIGNED IN COMPLIANCE WITH THE FOLLOWING REQUIREMENTS:
 VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL, AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
 - SHUNT TRIP BY OTHERS (STANDARD) - WIRING AND INSTALLED BY A LICENSED PLUMBER.
 - GAS VALVE SHUTOFF VALVE 2" (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200.
 - HOOD SUPPRESSION TANK - INCLUDED - 3 GAL - (1) 3.0 TANK(S).
 - REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
 - FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED FOR THE INSTALLATION MANUAL OR TO ANY STATE OR LOCAL CODES, PERMIT AND TESTING FEES.
 - FIRE SYSTEM MAINTENANCE SCHEDULES.
 - SPECIAL CLEARANCE OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
 - SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODES, PLAN EXAMINATION FEES, FIRE DEPARTMENT STAMP, OR PRELIMINARY PERMITS FOR FINAL FIELD INSTALLATION.
 - SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODES, PLAN EXAMINATION FEES, FIRE DEPARTMENT STAMP, OR PRELIMINARY PERMITS FOR FINAL FIELD INSTALLATION.
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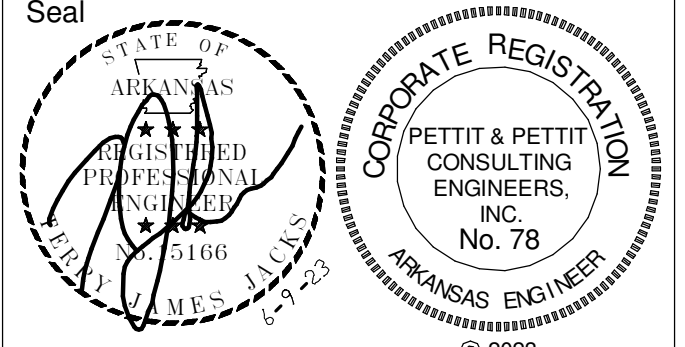
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 2000 W. BROADWAY AVE., WEST MEMPHIS, AR 72301
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 www.client.com



CONSTRUCTION DOCUMENTS



No.	Issue	Date

Job No. ASUMCH23.00
 Date 06.09.23
 Title

KITCHEN HOOD CONTROLS
 Sheet No. **MK1.03**

As-Builts
 CSUSA
 5/9/2024
 MA

