

HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR

INSIGHT ENGINEERING, PLLC

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RUSSELLVILLE, ARKANSAS

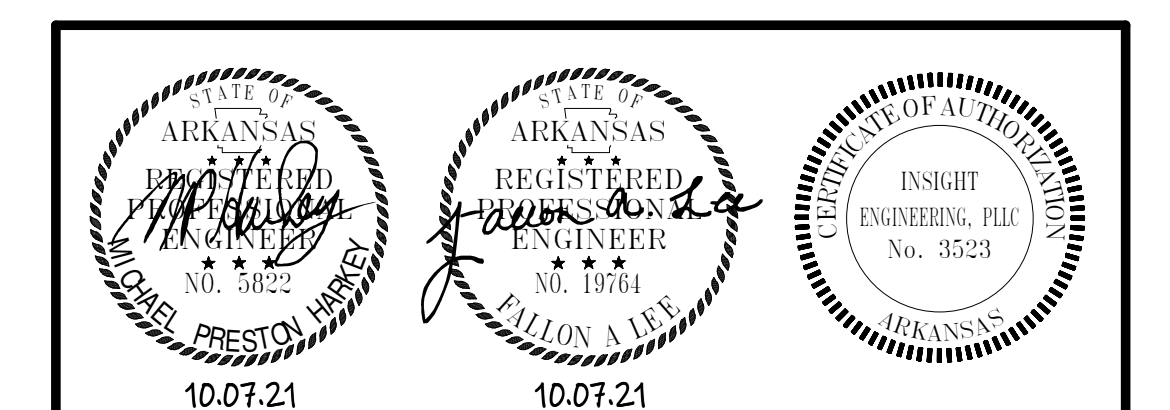


DEAN HALL:
ARKANSAS TECH UNIVERSITY
RUSSELLVILLE, ARKANSAS



CONSTRUCTION DOCUMENTS

10.07.21



DOOR SCHEDULE									
DOOR NO.	TYPE	DOOR SIZE			MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	COMMENTS
		W	H	THK					
161A	A	3'-0"	7'-0"	1 3/4"	METAL	HM-1	N/A	HW-1	

DOOR LEGEND

A
SOLID CORE
DOOR - SEE SPEC

FRAME TYPES LEGEND

HM-1
HOLLOW METAL
FRAME - VERIFY FRAME
MATCHES WALL
THICKNESS

CEILING LEGEND

EXISTING 2x2 ACOUSTICAL CEILING GRID SYSTEM	EXISTING 2x4 ACOUSTICAL CEILING GRID SYSTEM
GYP BD CEILING	WOOD CEILING GRID SYSTEM
NEW / RE- INSTALLED 2x2 ACOUSTICAL CEILING GRID SYSTEM	NEW / RE- INSTALLED 2x4 ACOUSTICAL CEILING GRID SYSTEM
SURFACE MOUNTED FIXTURE	SURFACE MOUNTED FIXTURE
2X2 DIRECT LIGHT FIXTURE	2X4 DIRECT LIGHT FIXTURE
TRACK LIGHT	

SYMBOLS LEGEND

CALLOUT: 1 / A101 VIEW REFERENCE

EXTERIOR ELEVATION: Ref

INTERIOR ELEVATION: Ref

WINDOW ELEVATION: Ref

MILLWORK ELEVATION: Ref

Room name: 101

NORTH ARROW: N

SECTION ELEVATION: Name 0'-0"

BUILDING SECTION: SIM 1/A101

WALL SECTION: SIM 1/A101

DETAIL SECTION: SIM 1/A101

MILLWORK SECTION: SIM 1/A101

COLUMN GRID: 101

WALL TAG: 101

DOOR TAG: 101

WINDOW TAG: 101

CENTERLINE: C

GENERAL INFORMATION

- GENERAL ARCHITECTURAL**
- BUILDINGS OR PORTIONS OF BUILDINGS SHALL BE PERMITTED TO BE OCCUPIED DURING CONSTRUCTION, REPAIR, ALTERATIONS, OR ADDITIONS ONLY IF ALL MEANS OF EGRESS & ALL FIRE PROTECTION FEATURES ARE IN PLACE AND CONTINUOUSLY MAINTAINED FOR THE PORTION OCCUPIED.
 - ALL DOOR HANDLES SHALL COMPLY WITH ADA AND BE LEVER OPERATED UNLESS OTHERWISE SPECIFIED.
 - INTERIOR CEILINGS SHALL BE CLASS A FLAME SPREAD RATINGS OF 0-25 - SMOKE DEVELOPMENT OF 0-450.
 - INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF IBC AND ASHRAE 90.1.
 - TOP OF FIRE EXTINGUISHER, HAVING A GROSS WEIGHT OF LESS THAN 40 LBS, SHALL BE NOT MORE THAN 36" A.F.F. - IF WEIGHT IS GREATER THAN 40 LBS, THEN THE HEIGHT SHALL NOT BE MORE THAN 42" A.F.F.
 - A REQUIRED FIRE SEPARATION SHALL BE CONTINUOUS FROM FOUNDATION THROUGH ALL INTERVENING CONSTRUCTION TO THE ROOF DECK, FROM OUTSIDE WALL TO THE OUTSIDE WALL OF FROM FIRE BARRIER TO FIRE BARRIER - PROVIDE UL OR FM LISTED ASSEMBLY.
 - PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.
- GENERAL ADAAG**
- PROVIDE HANDICAPPED ACCESSIBILITY IN ACCORDANCE WITH ADAAG
 - GROUND AND FLOOR SURFACES 9 SLIP RESISTANT UNDER ALL WEATHER CONDITIONS
 - DOOR HARDWARE SHALL COMPLY WITH THIS SECTION - HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE
 - SIGNAGE, WHERE PROVIDED AT PERMANENT ROOMS & SPACES AND OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDINGS, SHALL BE IN ACCORDANCE WITH ADA (RAISED CHARACTER, LETTER SIZE, MOUNTING)
- GENERAL PLUMBING**
- ALL PLUMBING WORK SHALL BE ACCOMPLISHED THROUGH THE USE OF A LICENSED CONTRACTOR OF THE TRADE IN A PROFESSIONAL AND WORKMAN LIKE MANNER
 - ALL PLUMBING WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT PLUMBING CODE, REGIONAL, STATE AND/OR LOCAL HEALTH DEPARTMENT, AND BUILDING CODES FOR THE GEOGRAPHICAL AREA OF CONSTRUCTION
 - ALL WATER LINES (HOT AND COLD) AND ALL WASTE LINES SHALL BE PRESSURE TESTED PRIOR TO CONCRETE PLACEMENT
 - INSTALL SANITARY HUBS AS PER MUNICIPAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND AS ILLUSTRATED HEREIN, AND PRESSURE TESTED PRIOR TO CONCRETE PLACEMENT
 - IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT NO EXISTING UTILITIES ARE INTERRUPTED BY THE CONTRACTED EXCAVATION.
- GENERAL MECHANICAL**
- COORDINATE ALL DUCTWORK WITH ELECTRICAL LIGHTING PLAN
 - ALL DUCTWORK SHALL CONFORM WITH THE LOCAL MECHANICAL CODE
 - AIR CONDITIONING, HEATING, VENTILATION DUCT WORK AND RELATED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REGULATIONS
 - SMOKE DETECTORS WILL BE INSTALLED IN ALL UNITS OVER 2000 CFM'S ACCORDING TO LOCAL MECHANICAL CODE
 - PROVIDE FIRE DAMPERS IN AIR TRANSFER OPENINGS IN PARTITIONS REQUIRED TO BE FIRE RATED
- GENERAL ELECTRICAL**
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA ELECTRICAL CODE, THE IECC, & ALL RULES & OR REGULATIONS HANDED DOWN BY THE STATE, LOCAL OR OTHER REGULATING AUTHORITY FOR THE END PROJECT
 - THE ELECTRICAL SUBCONTRACTORS SHALL VERIFY ALL ASPECTS OF THE ELECTRICAL WORK WITH THE LOCAL UTILITY COMPANY PROVIDING THE SERVICES TO THE PROPOSED BUILDING, INSURE THAT THE GENERAL INTENT OF THE DRAWINGS IN ACCORDANCE WITH THE LOCAL ELECTRICAL CODE IS APPLIED AND CONSIDERED WITH THE INITIAL BID PROPOSAL

GENERAL DEMOLITION NOTES

- EXISTING TO REMAIN**
- THE CONTRACTOR SHALL TAKE ALL PRECAUTION TO PREVENT DAMAGE TO ALL BUILDING ELEMENTS AND SYSTEMS IN EXISTING AREAS NOT DESIGNATED FOR DEMOLITION OR NEW CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIS WORK OR ANY SUBCONTRACTOR.
 - WHEN INSTALLING NEW EQUIPMENT OR FIXTURES, REMOVE CEILING TILES AND GRIDS TO ACCESS THE NECESSARY EQUIPMENT TIE-INS TO POWER, WATER, ETC. SHOULD EXISTING TILES OR GRIDS BECOME DAMAGED, REPLACE OR REPAIR THE DAMAGED PORTIONS.
- CLEARANCES**
- THE CONTRACTOR SHALL VERIFY THAT NEW CEILINGS CAN BE INSTALLED IN EXISTING SPACES TO CLEAR DUCTWORK AND OTHER CONSTRUCTED ITEMS AND MAINTAIN FLOOR TO CEILING HEIGHTS INDICATED ON DRAWINGS.
 - IF DISCREPANCIES OCCUR DUE TO EXISTING CONDITIONS, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING
- ALIGNMENT OF EXISTING AND NEW ELEMENTS**
- THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITION WITH THE FACE OF THE MATERIALS ON EXISTING COLUMNS, WALLS, OR PARTITIONS, UNLESS NOTED OTHERWISE.
- GENERAL FOR RENOVATION**
- THE CONTRACTOR SHALL VERIFY DIMENSIONS OF AS-BUILT CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
 - ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY
 - THE CONTRACTOR SHALL SURVEY AND DETERMINE THE REMOVAL OF EXISTING CONSTRUCTION, EITHER WHOLE OR IN PART, AS REQUIRED FOR THE INSTALLATION OF THE NEW MECHANICAL, PLUMBING AND ELECTRICAL WORK
 - THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY CONSTRUCTION DEFECTS FOUND IN UNCOVERING WORK IN THE EXISTING CONSTRUCTION
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING DEFECTIVE WORK IN EXISTING CONSTRUCTION WITHIN THE LIMITS OF THE CONSTRUCTION AREA. THIS INCLUDES, BUT IS NOT LIMITED TO, UNEVEN SURFACES AND FINISHES AT PLASTER OR GYPSUM BOARD. THE CONTRACTOR SHALL PATCH AND REPAIR SURFACES TO MATCH NEW ADJACENT SURFACES
 - ALL PIPING ABOVE GRADE AND INSIDE THE BUILDING REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED IN AREAS WHERE IT WILL BE CONCEALED. THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS
 - REMOVE MECHANICAL AND ELECTRICAL FIXTURES AND CAP OR REMOVE EXISTING BRANCH LINES AS INDICATED IN THE MECHANICAL AND ELECTRICAL DOCUMENTS
 - COORDINATE PLANS FOR NEW CONSTRUCTION W/ DEMOLITION PLANS FOR EXTENT OF REMOVAL. REMOVE ONLY THOSE PORTIONS OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY TO ACCOMMODATE NEW CONSTRUCTION

GENERAL NOTES

- THE DRAWINGS PREPARED BY LEVEL STUDIO ARE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. UNLESS OTHERWISE PROVIDED, LEVEL STUDIO SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS. INCLUDED THE COPYRIGHT. LEVEL STUDIO DRAWINGS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS OR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, UNLESS LEVEL STUDIO ACCEPTS BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION. DO NOT REPRODUCE THESE DRAWINGS WITHOUT WRITTEN APPROVAL OF LEVEL STUDIO
- CONTRACTORS SHALL PERFORM ALL WORK AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE, AIA GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, RECOGNIZED INDUSTRY STANDARD, CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURER'S RECOMMENDATIONS AND ALL OTHER APPLICABLE CODES
- THE ARCHITECT DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF FOR THE SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTION POSSIBLE TO PREVENT DAMAGE TO ANY EXISTING BUILDING ELEMENT TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIS WORK OR ANY SUBCONTRACTOR
- THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITION WITH THE FACE OF THE MATERIALS ON EXISTING COLUMNS, WALLS, OR PARTITIONS, UNLESS NOTED OTHERWISE
- THE CONTRACTOR SHALL VERIFY DIMENSIONS OF AS-BUILT CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY CONSTRUCTION DEFECTS FOUND IN UNCOVERING WORK IN THE EXISTING CONSTRUCTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING DEFECTIVE WORK IN EXISTING CONSTRUCTION WITHIN THE LIMITS OF THE CONSTRUCTION AREA
- ALL PIPING ABOVE GRADE AND INSIDE THE BUILDING REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED IN AREAS WHERE IT WILL BE CONCEALED. THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS
- REMOVE MECHANICAL AND ELECTRICAL FIXTURES AND CAP OR REMOVE EXISTING BRANCH LINES AS INDICATED IN THE MECHANICAL AND ELECTRICAL DOCUMENTS
- COORDINATE PLANS FOR NEW CONSTRUCTION W/ DEMOLITION PLANS FOR EXTENT OF REMOVAL. REMOVE ONLY THOSE PORTIONS OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY TO ACCOMMODATE NEW CONSTRUCTION
- DIMENSIONS ARE NOT ADJUSTABLE UNLESS NOTED WITH A +/- SYMBOL. ONLY NORMAL INDUSTRY STANDARD TOLERANCES ARE ACCEPTABLE. DEVIATIONS FROM DIMENSIONS INDICATED, DO NOT SCALE DRAWINGS. ALL DIMENSIONS NOTED AS "CLEAR" SHALL MAINTAIN THE FULL SPACE INDICATED WITHOUT ENCROACHMENTS. ALL VERTICAL HEIGHTS INDICATED ARE FROM THE FINISH FLOOR ELEVATION AT THE BASE OF THE ITEM INDICATED, UNLESS NOTED OTHERWISE. WHERE WALLS, JAMBS, OR OTHER ITEMS ARE NOTED TO "ALIGN", THE FACE OF ITEMS INDICATED SHALL BE IN LINE WITH EACH OTHER TO FORM A STRAIGHT LINE. FREE OF OFFSETS OR DEVIATIONS. FIELD VERIFY ALL DIMENSIONS, UNLESS NOTED OTHERWISE. DIMENSIONS ARE ACTUAL, NOT NOMINAL.
- PROVIDE METAL STUD BLOCKING IN PARTITIONS BEHIND ALL WALL HUNG OR WALL MOUNTED EQUIPMENT, MILLWORK, SHELVING, OR OTHER DEVICES
- ALL SCALES INDICATED ON DRAWINGS ARE FOR ARCHITECTS REFERENCE ONLY. GC, OR SUBS AND TRADES SHALL NOT SCALE DRAWINGS AND INTERPRET ARCHITECTS INTENT
- THE CONTRACTOR SHALL VERIFY CONCRETE AT EXTERIOR DOORS SLOPES AWAY FROM DOOR - SLOPE NOT TO EXCEED 1:50 - INCLUDES OVERHEAD DOORS
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, REFLECTORS, LIGHTS, ETC DURING CONSTRUCTION - PROPER DEMARKATE AREAS CLOSED TO THE PUBLIC
- THE CONTRACTOR WILL REMOVE ALL RUBBLE AND DEBRIS FROM THE JOB SITE AND LEAVE THE BUILDING AND GROUNDS BROOM CLEAN UPON COMPLETION OF WORK
- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND COORDINATION OF ALL CONDUIT, PIPING, DUCTWORK, ETC WITH THE VARIOUS TRADES
- CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT HIMSELF THOROUGHLY WITH ALL EXISTING FACILITIES AND CONDITIONS WHICH WOULD AFFECT HIS PORTION OF THE WORK - FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF INSTALLING THE WORK TO MEET SAID CONDITIONS
- WHENEVER THERE ARE DISCREPANCIES BETWEEN THE DRAWINGS, OR THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL ESTIMATE UPON THE BETTER QUALITY OR GREATER QUANTITY OF MATERIAL OF WORK CALLED FOR, AND SHALL BE SO FURNISHED UNLESS OTHERWISE ORDERED IN WRITING OF THE GENERAL CONTRACTOR SHALL COMPLY WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. IF THE GC IS UNCERTAIN OF THE DESIGN INTENT HE SHALL CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING - LACK OF UNDERSTANDING OF THE CONTRACT DOCUMENTS SHALL NOT BE AN EXCUSE FOR IMPROPER INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES
- THE GENERAL CONTRACTOR AND MILLWORK CONTRACTOR SHALL VERIFY ALL APPLIANCES AND PLUMBING FIXTURES SPACE REQUIREMENTS WITH THE SUPPLIER AND OWNER PRIOR TO THE MANUFACTURING OF CABINETS AND COUNTERTOP SUPPORTS - THE MILLWORK CONTRACTOR SHALL COORDINATE THESE LOCATIONS WITH THE GENERAL CONTRACTOR. THE MILLWORK CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH MILLWORK ELEVATION AND SECTIONS (IF GIVEN), CLARIFY ANY DISCREPANCIES WITH THE ARCHITECT PRIOR TO MANUFACTURING THE CABINETS
- THE SIGN CONTRACTOR SHALL SEAL ALL PENETRATIONS REQUIRED FOR THE INSTALLATION OF TENANT FACADE SIGNAGE. PENETRATIONS MADE FOR THE MOUNTING AND POWER CONDUIT SHALL HAVE A WATERTIGHT SEAL - COORDINATE WITH ARCHITECT
- PLANS AND DETAIL DRAWINGS ARE TO LIMIT, EXPLAIN AND DEFINE CONDITIONS, SPECIFIED REQUIREMENTS AND MANNER OF WORK. STRUCTURAL OR OTHER CONDITIONS MAY REQUIRE CERTAIN MODIFICATIONS FROM THE MANNER OF INSTALLATION SHOWN, AND SUCH DEVIATIONS ARE PERMISSIBLE AND SHALL BE MADE AS REQUIRED, BUT SPECIFIED SIZES AND REQUIREMENTS NECESSARY FOR SATISFACTORY OPERATION SHALL REMAIN UNCHANGED. ALL SUCH CHANGES SHALL BE MADE AS REQUIRED AND SHALL BE REFERRED TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING. EXTRA CHARGES SHALL NOT BE ALLOWED FOR THESE CHANGES. THE CONTRACTOR SHALL REALIZE THAT THE DRAWINGS COULD NOT DELVE INTO EVERY STEP, SEQUENCE, OR OPERATION NECESSARY FOR THE COMPLETION OF THE PROJECT WITHOUT DRAWING ON THE CONTRACTOR'S EXPERIENCE OF INGENUITY. HOWEVER, ONLY TYPICAL DETAILS ARE SHOWN ON THE PLANS. IN CASES WHERE THE CONTRACTOR IS NOT CERTAIN ABOUT THE METHOD OF INSTALLATION OF HIS WORK, HE SHALL ASK FOR FURTHER EXPLANATION. LACK OF UNDERSTANDING SHALL NOT BE AN EXCUSE FOR IMPROPER INSTALLATION. IN GENERAL, THE DRAWINGS ARE DIAGRAMMATIC AND THE CONTRACTOR SHALL INSTALL HIS WORK IN A MANNER THAT INTERFERES BETWEEN THE VARIOUS TRADES AS AVOIDED. IN CASES WHERE INTERFERES DO OCCUR, THE ARCHITECT IS TO STATE WHICH EQUIPMENT, PIPING, ETC. IS TO BE RELOCATED REGARDLESS OF WHICH ITEM WAS INSTALLED FIRST.

HVAC SYSTEM UPGRADE FOR DEAN HALL

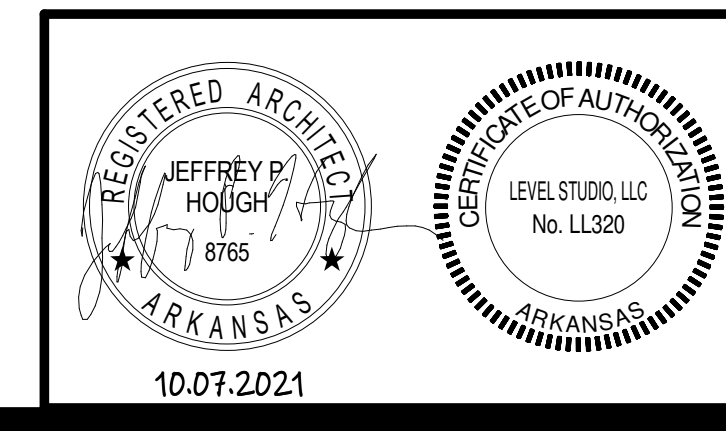
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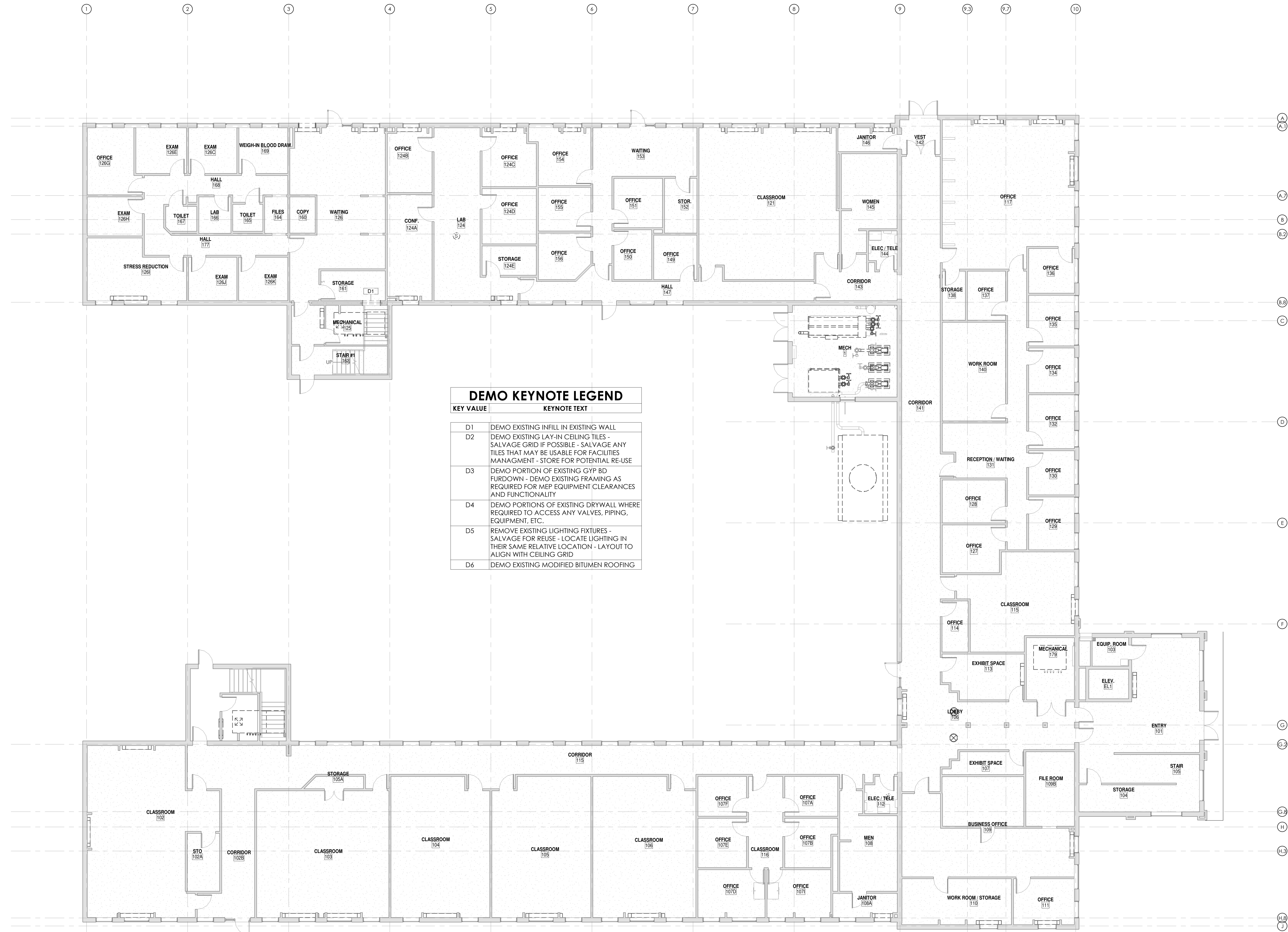
SHEET TITLE:
GENERAL NOTES AND DOOR SCHEDULE

SHEET NUMBER:
A001



HVAC SYSTEM UPGRADE FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



KEY VALUE	KEYNOTE TEXT
D1	DEMO EXISTING INFILL IN EXISTING WALL
D2	DEMO EXISTING LAY-IN CEILING TILES - SALVAGE GRID IF POSSIBLE - SALVAGE ANY TILES THAT MAY BE USABLE FOR FACILITIES MANAGEMENT - STORE FOR POTENTIAL RE-USE
D3	DEMO PORTION OF EXISTING GYP BD FURDOWN - DEMO EXISTING FRAMING AS REQUIRED FOR MEP EQUIPMENT CLEARANCES AND FUNCTIONALITY
D4	DEMO PORTIONS OF EXISTING DRYWALL WHERE REQUIRED TO ACCESS ANY VALVES, PIPING, EQUIPMENT, ETC.
D5	REMOVE EXISTING LIGHTING FIXTURES - SALVAGE FOR REUSE - LOCATE LIGHTING IN THEIR SAME RELATIVE LOCATION - LAYOUT TO ALIGN WITH CEILING GRID
D6	DEMO EXISTING MODIFIED BITUMEN ROOFING

1 FIRST LEVEL FLOOR DEMO PLAN
1/8" = 1'-0"

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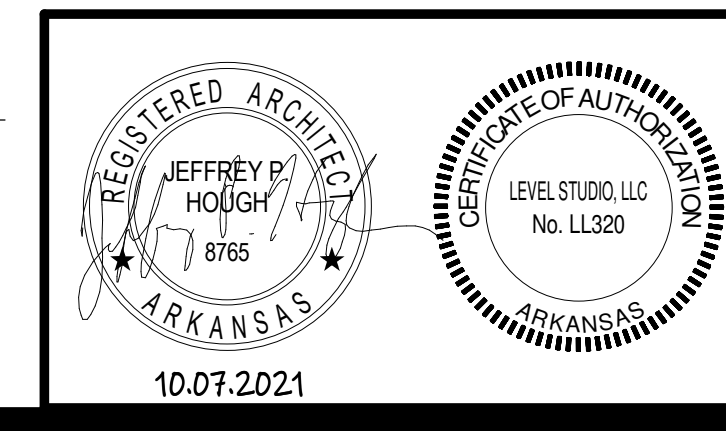
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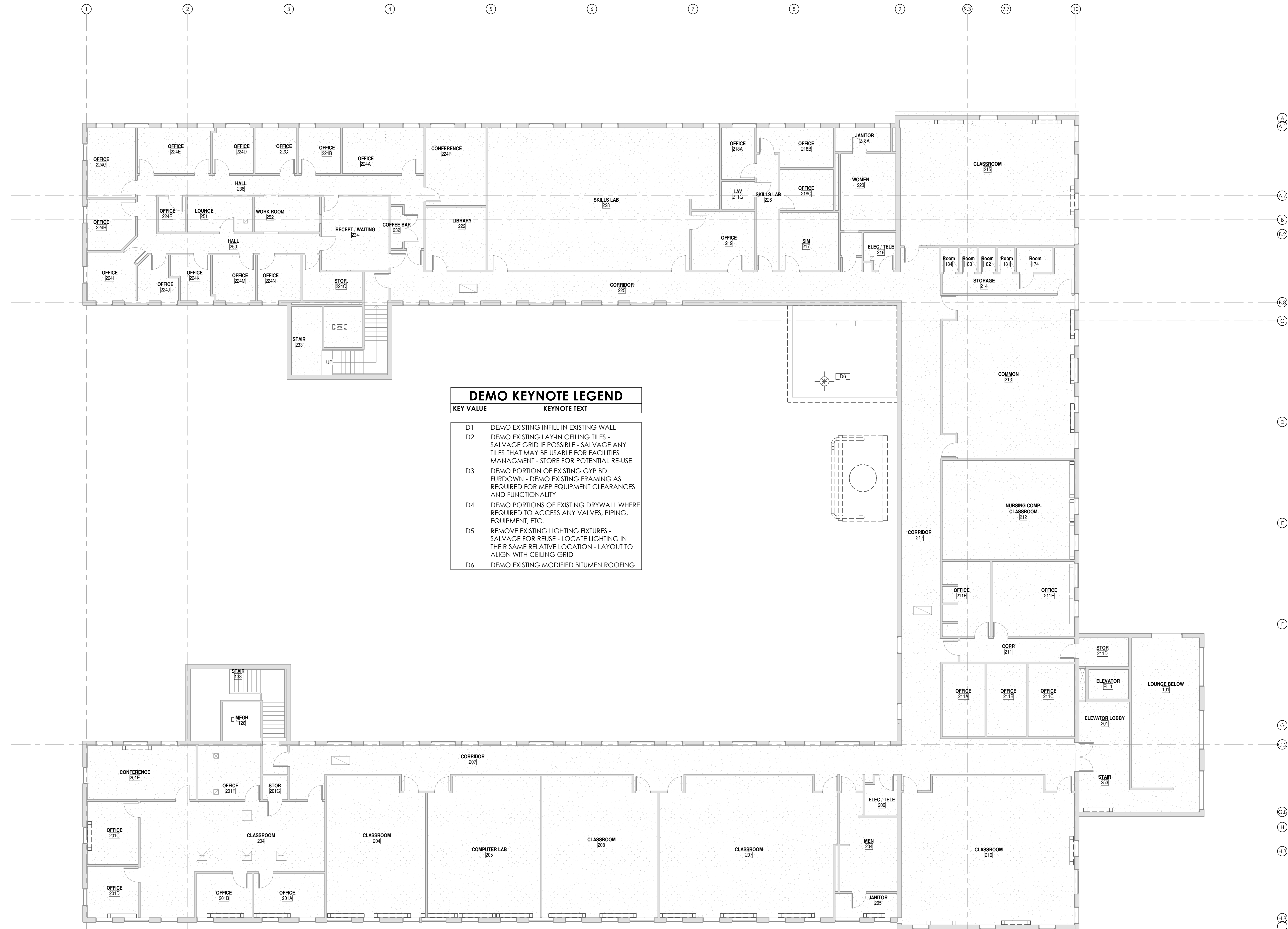
AD101



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HVAC SYSTEM UPGRADE FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



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1 SECOND LEVEL DEMO FLOOR PLAN
1/8" = 1'-0"

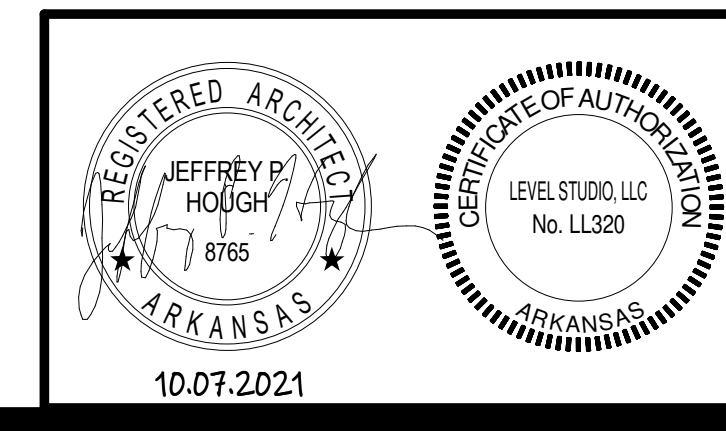
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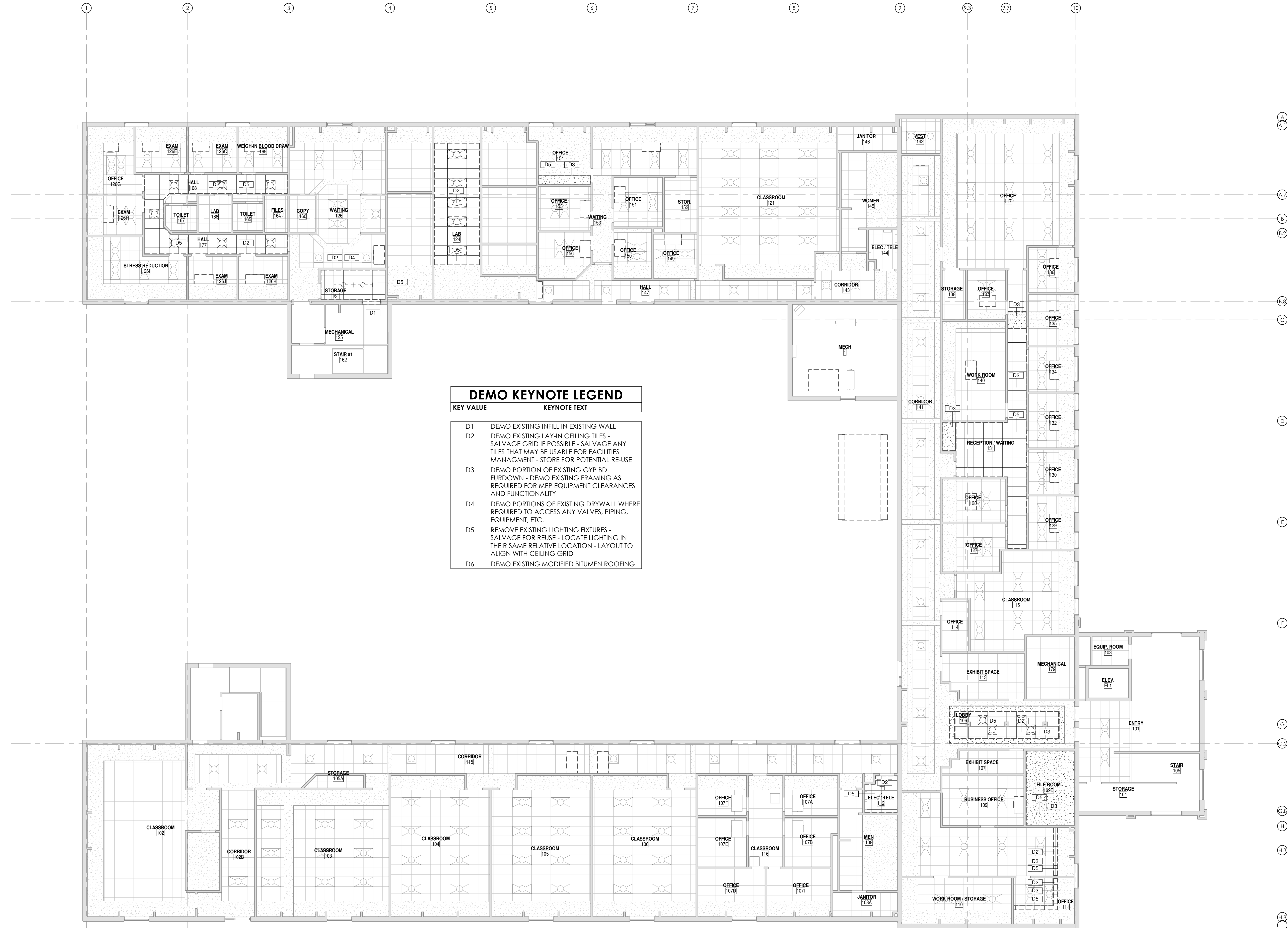
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AD102



HVAC SYSTEM UPGRADE FOR DEAN HALL

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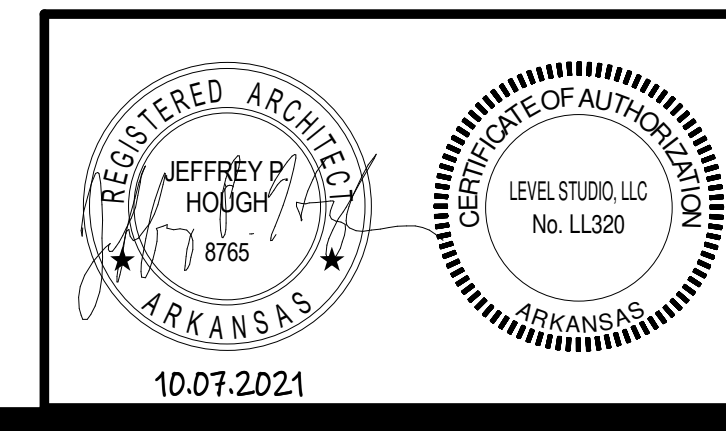


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1 FIRST LEVEL CEILING DEMO PLAN
1/8" = 1'-0"

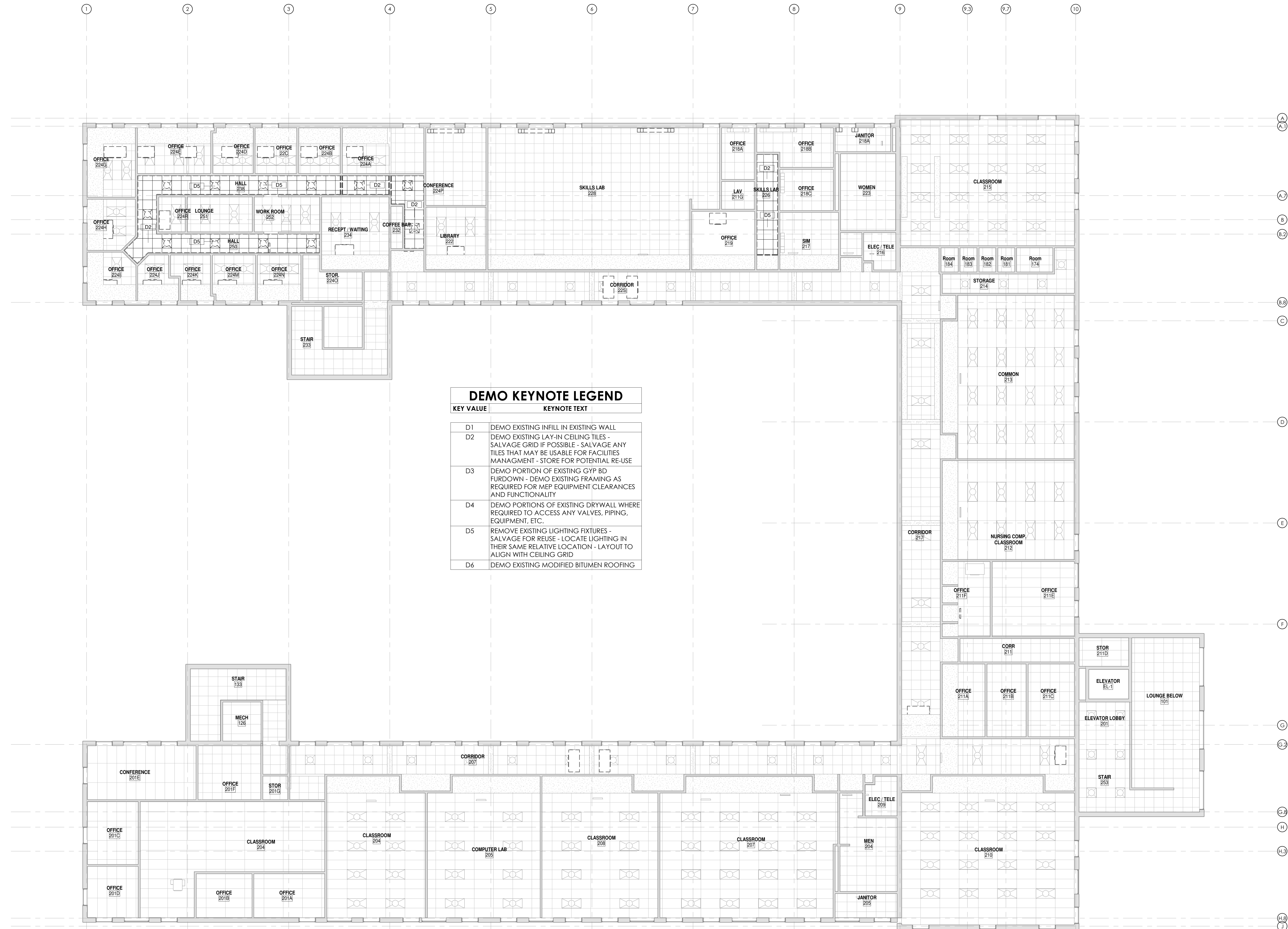
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SHEET TITLE: FIRST FLOOR REFLECTED CEILING DEMO PLAN
SHEET NUMBER: AD201



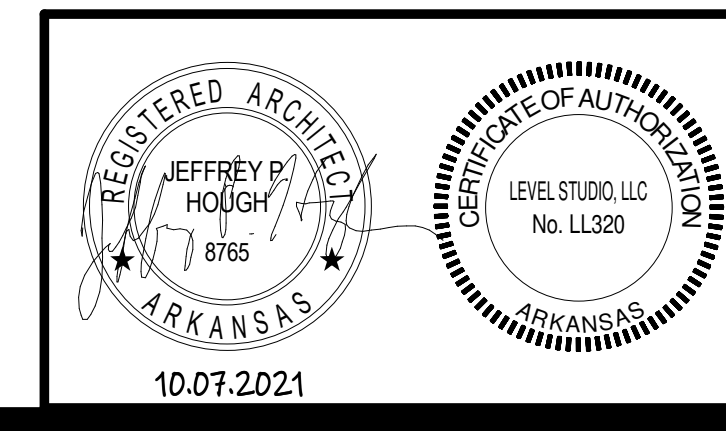
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1 SECOND LEVEL CEILING DEMO PLAN
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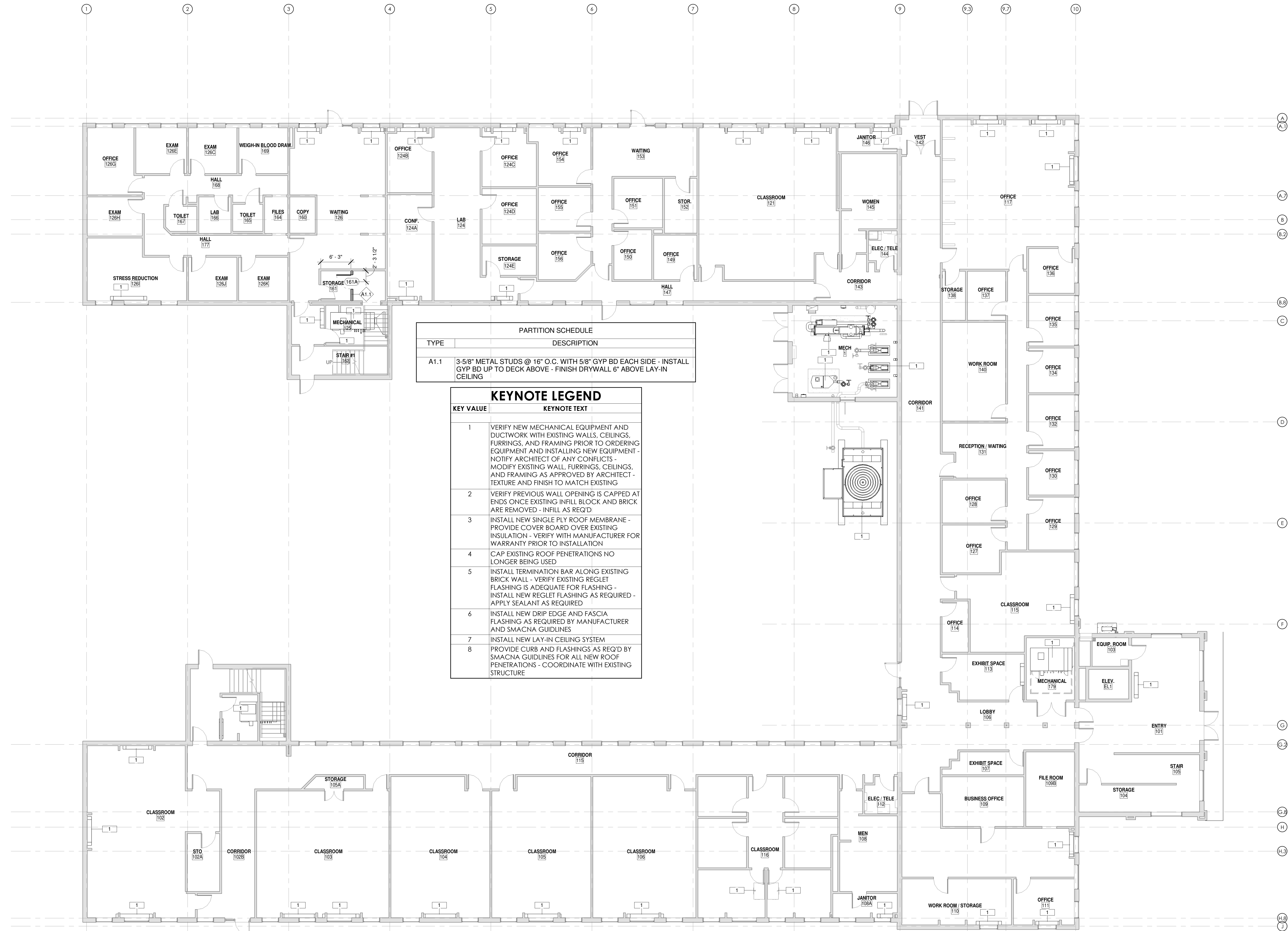


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SHEET NUMBER: AD202

HVAC SYSTEM UPGRADE FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



PARTITION SCHEDULE	
TYPE	DESCRIPTION
A1.1	3-5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP BD EACH SIDE - INSTALL GYP BD UP TO DECK ABOVE - FINISH DRYWALL 6" ABOVE LAY-IN CEILING

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	VERIFY NEW MECHANICAL EQUIPMENT AND DUCTWORK WITH EXISTING WALLS, CEILINGS, FURRINGS, AND FRAMING PRIOR TO ORDERING EQUIPMENT AND INSTALLING NEW EQUIPMENT - NOTIFY ARCHITECT OF ANY CONFLICTS - MODIFY EXISTING WALL, FURRINGS, CEILINGS, AND FRAMING AS APPROVED BY ARCHITECT - TEXTURE AND FINISH TO MATCH EXISTING
2	VERIFY PREVIOUS WALL OPENING IS CAPPED AT ENDS ONCE EXISTING INFILL BLOCK AND BRICK ARE REMOVED - INFILL AS REQ'D
3	INSTALL NEW SINGLE PLY ROOF MEMBRANE - PROVIDE COVER BOARD OVER EXISTING INSULATION - VERIFY WITH MANUFACTURER FOR WARRANTY PRIOR TO INSTALLATION
4	CAP EXISTING ROOF PENETRATIONS NO LONGER BEING USED
5	INSTALL TERMINATION BAR ALONG EXISTING BRICK WALL - VERIFY EXISTING REGLET FLASHING IS ADEQUATE FOR FLASHING - INSTALL NEW REGLET FLASHING AS REQUIRED - APPLY SEALANT AS REQUIRED
6	INSTALL NEW DRIP EDGE AND FASCIA FLASHING AS REQUIRED BY MANUFACTURER AND SMACNA GUIDLINES
7	INSTALL NEW LAY-IN CEILING SYSTEM
8	PROVIDE CURB AND FLASHINGS AS REQ'D BY SMACNA GUIDLINES FOR ALL NEW ROOF PENETRATIONS - COORDINATE WITH EXISTING STRUCTURE

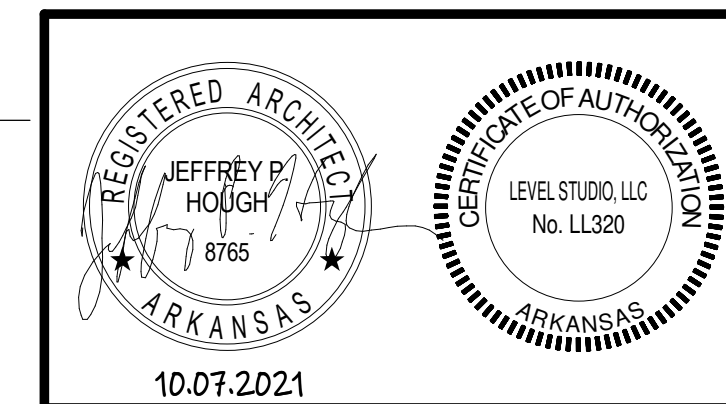
1 FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"

REVISIONS:	

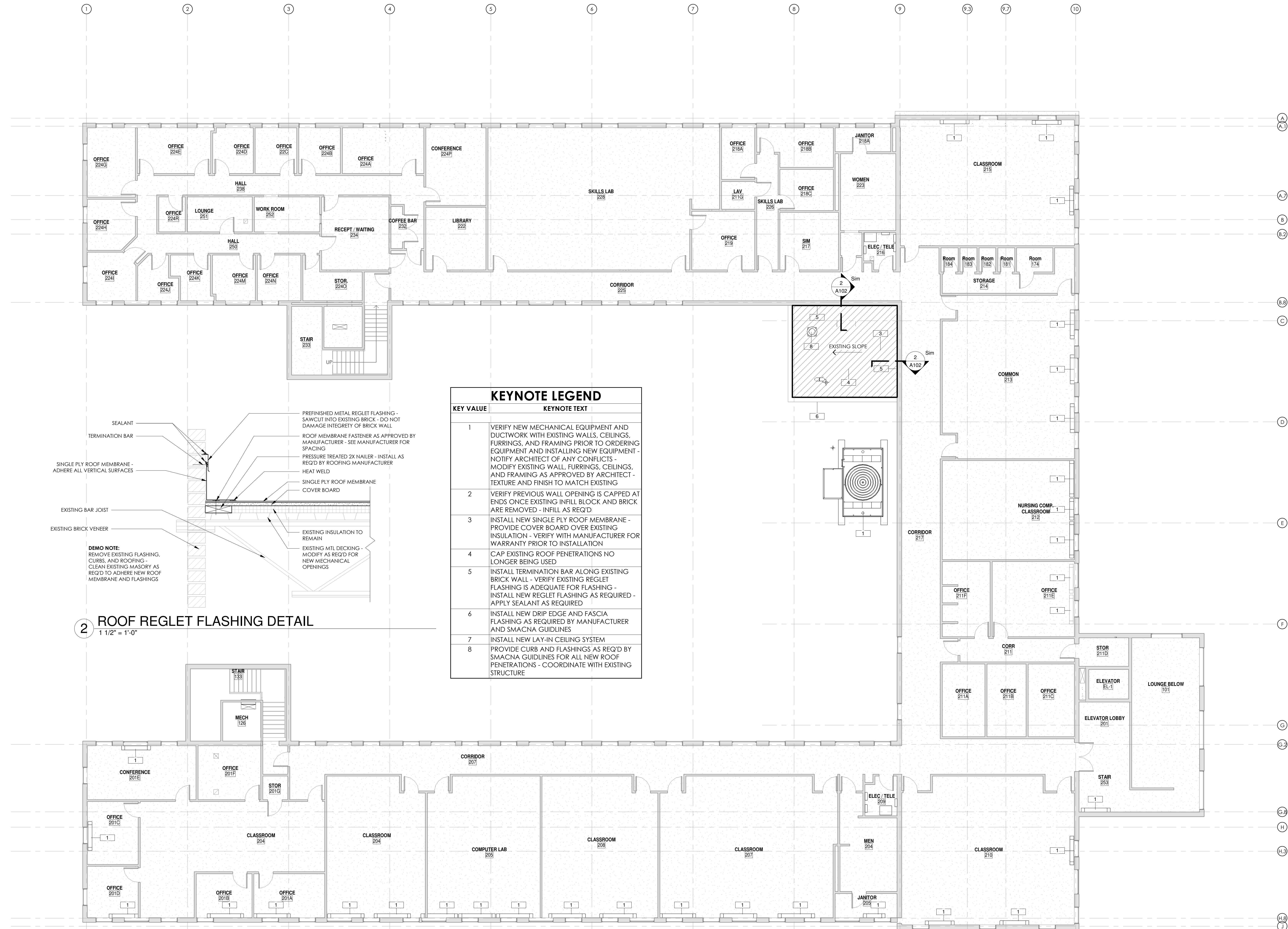
ISSUE DATE: 10.07.2021

SHEET TITLE:
FIRST FLOOR PLAN

SHEET NUMBER:
A101



10.07.2021



KEY VALUE	KEYNOTE TEXT
1	VERIFY NEW MECHANICAL EQUIPMENT AND DUCTWORK WITH EXISTING WALLS, CEILINGS, FURRINGS, AND FRAMING PRIOR TO ORDERING EQUIPMENT AND INSTALLING NEW EQUIPMENT - NOTIFY ARCHITECT OF ANY CONFLICTS - MODIFY EXISTING WALL, FURRINGS, CEILINGS, AND FRAMING AS APPROVED BY ARCHITECT - TEXTURE AND FINISH TO MATCH EXISTING
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2 ROOF REGLET FLASHING DETAIL
1 1/2" = 1'-0"

1 SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

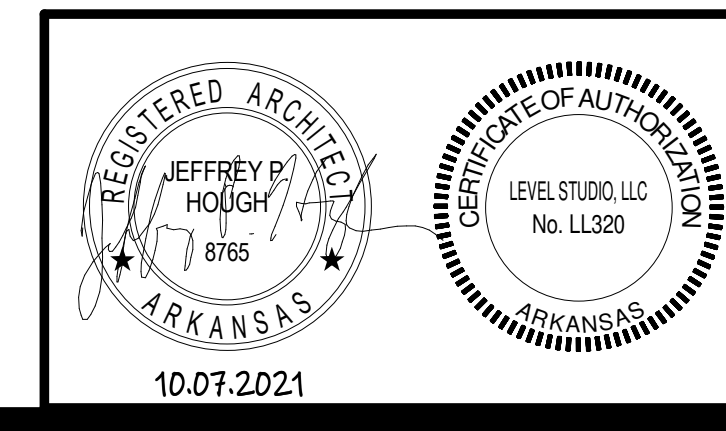
REVISIONS:

ISSUE DATE: 10.07.2021

SHEET TITLE:
SECOND FLOOR PLAN

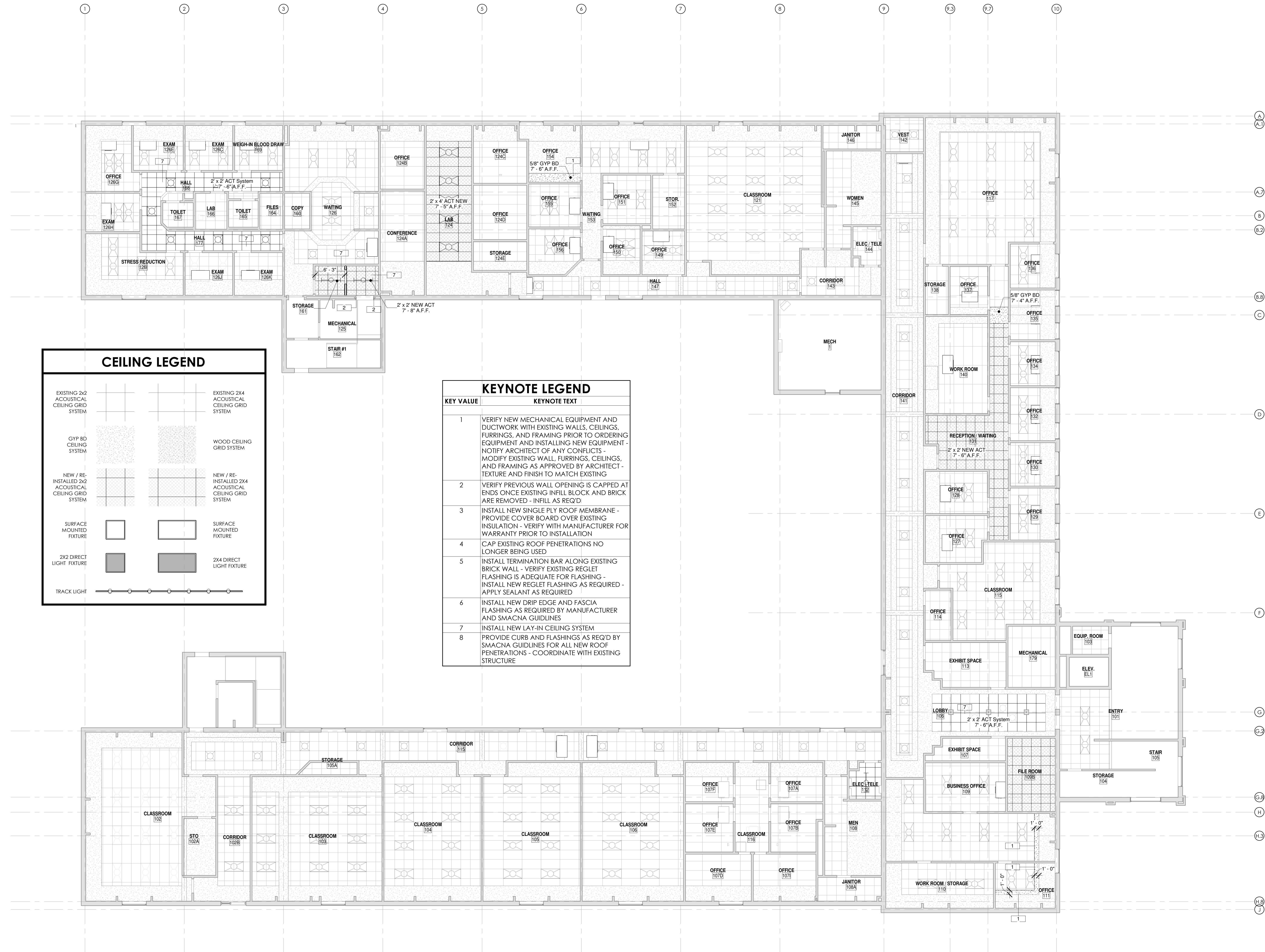
SHEET NUMBER:

A102



HVAC SYSTEM UPGRADE FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



CEILING LEGEND			
EXISTING 2x2 ACOUSTICAL CEILING GRID SYSTEM		EXISTING 2x4 ACOUSTICAL CEILING GRID SYSTEM	
GYP BD CEILING SYSTEM		WOOD CEILING GRID SYSTEM	
NEW / RE-INSTALLED 2x2 ACOUSTICAL CEILING GRID SYSTEM		NEW / RE-INSTALLED 2x4 ACOUSTICAL CEILING GRID SYSTEM	
SURFACE MOUNTED FIXTURE		SURFACE MOUNTED FIXTURE	
2x2 DIRECT LIGHT FIXTURE		2x4 DIRECT LIGHT FIXTURE	
TRACK LIGHT			

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	VERIFY NEW MECHANICAL EQUIPMENT AND DUCTWORK WITH EXISTING WALLS, CEILINGS, FURRINGS, AND FRAMING PRIOR TO ORDERING EQUIPMENT AND INSTALLING NEW EQUIPMENT - NOTIFY ARCHITECT OF ANY CONFLICTS - MODIFY EXISTING WALL, FURRINGS, CEILINGS, AND FRAMING AS APPROVED BY ARCHITECT - TEXTURE AND FINISH TO MATCH EXISTING
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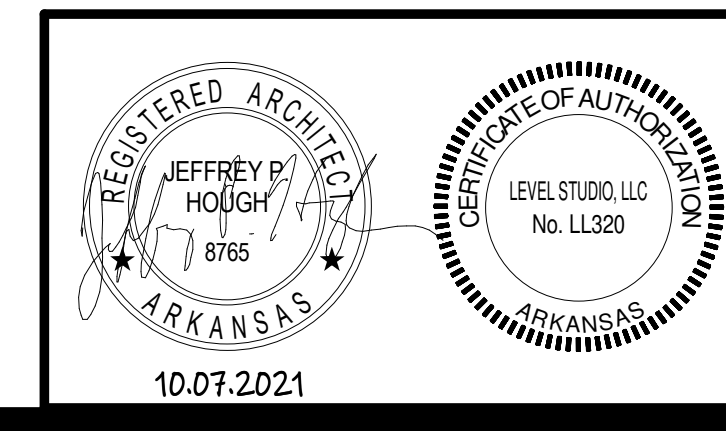
1 FIRST LEVEL CEILING PLAN
1/8" = 1'-0"

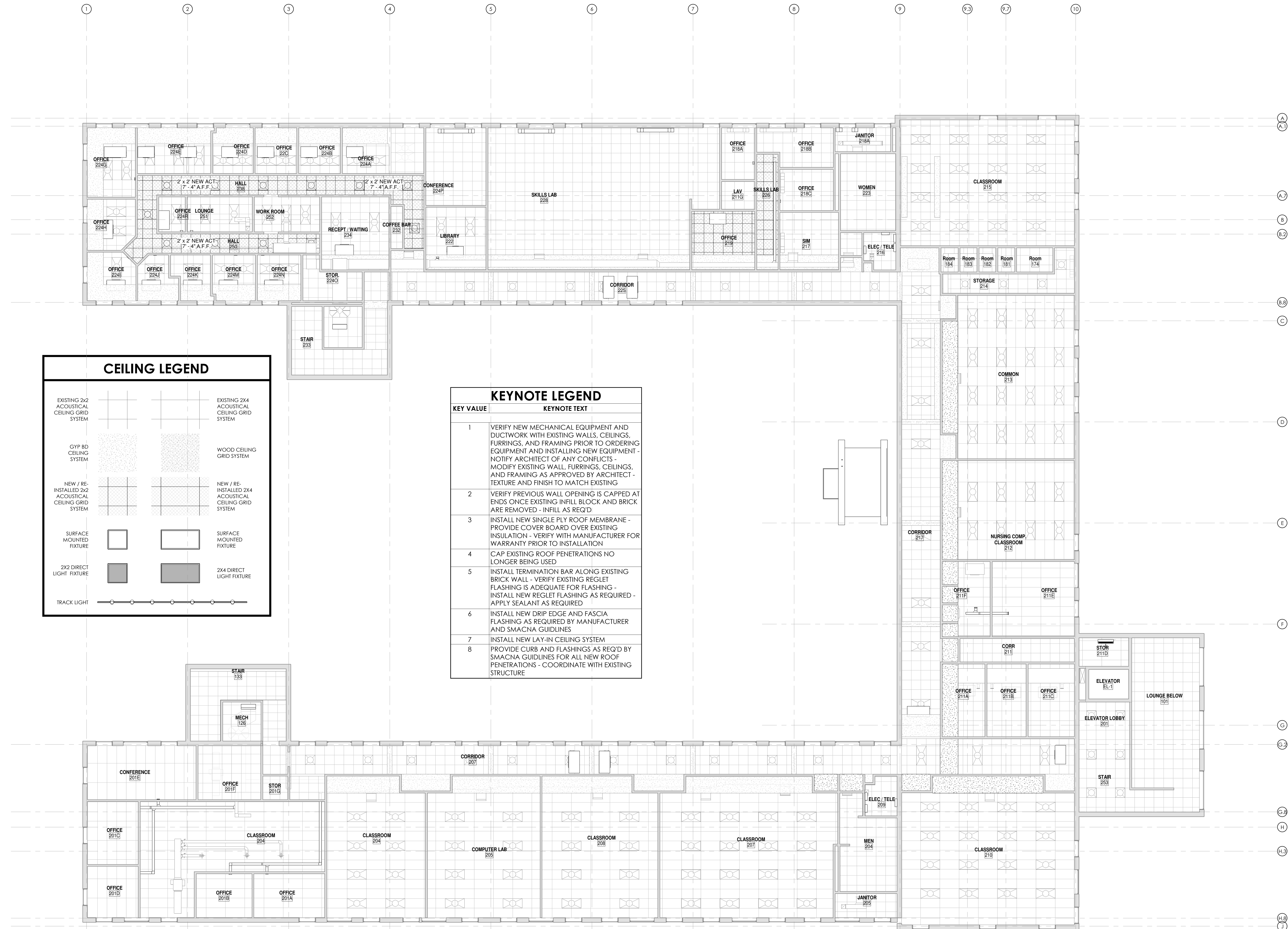
REVISIONS:

ISSUE DATE: 10.07.2021

SHEET TITLE: FIRST FLOOR REFLECTED CEILING PLAN

SHEET NUMBER: A201





CEILING LEGEND			
EXISTING 2x2 ACOUSTICAL CEILING GRID SYSTEM		EXISTING 2x4 ACOUSTICAL CEILING GRID SYSTEM	
GYP BD CEILING SYSTEM		WOOD CEILING GRID SYSTEM	
NEW / RE-INSTALLED 2x2 ACOUSTICAL CEILING GRID SYSTEM		NEW / RE-INSTALLED 2x4 ACOUSTICAL CEILING GRID SYSTEM	
SURFACE MOUNTED FIXTURE		SURFACE MOUNTED FIXTURE	
2x2 DIRECT LIGHT FIXTURE		2x4 DIRECT LIGHT FIXTURE	
TRACK LIGHT			

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	VERIFY NEW MECHANICAL EQUIPMENT AND DUCTWORK WITH EXISTING WALLS, CEILINGS, FURRINGS, AND FRAMING PRIOR TO ORDERING EQUIPMENT AND INSTALLING NEW EQUIPMENT - NOTIFY ARCHITECT OF ANY CONFLICTS - MODIFY EXISTING WALL, FURRINGS, CEILINGS, AND FRAMING AS APPROVED BY ARCHITECT - TEXTURE AND FINISH TO MATCH EXISTING
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7	INSTALL NEW LAY-IN CEILING SYSTEM
8	PROVIDE CURB AND FLASHINGS AS REQ'D BY SMACNA GUIDELINES FOR ALL NEW ROOF PENETRATIONS - COORDINATE WITH EXISTING STRUCTURE

1 SECOND LEVEL CEILING PLAN
1/8" = 1'-0"

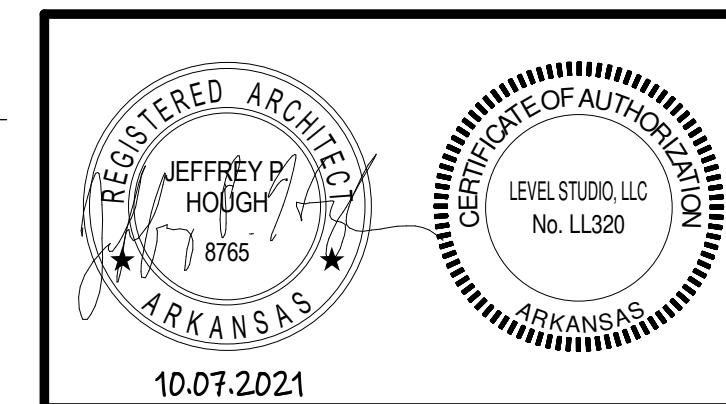
REVISIONS:	

ISSUE DATE: 10.07.2021

SHEET TITLE:
SECOND FLOOR REFLECTED
CEILING PLAN

SHEET NUMBER:

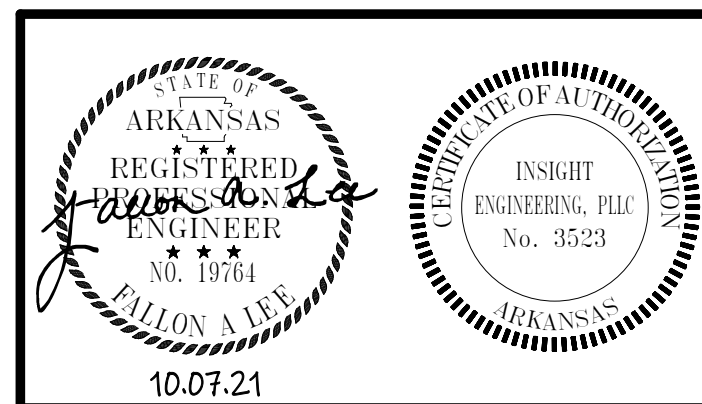
A202



MECHANICAL GENERAL NOTES	
1.	ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE A HARD SUSPENDED CEILING.
2.	THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZED ARE NET INSIDE DIMENSIONS.
3.	ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. COORDINATE LOCATION OF PANELS WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4.	TOTAL STATIC PRESSURE NOTES IN THE SCHEDULES INCLUDED DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING.
5.	FOR TYPICAL WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6.	WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
7.	ALL DUCT AND PIPE ROUTING AND CONSTRUCTION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE AND MAY NOT BE SHOWN IN EXACT LOCATIONS OR WITH ALL ANCILLARY ITEMS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE ROUTING OF ALL DUCTWORK AND PIPING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY POSSIBLE WHILE ADHERING AS CLOSELY TO THE DRAWINGS AS POSSIBLE.
8.	CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
9.	ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSIONAL ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE, AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.
10.	DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.
11.	THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
12.	ALL EQUIPMENT WHICH IS INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS OR BY OWNER IS INCLUDED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. DESIGN OF MECHANICAL SYSTEMS IN THESE AREAS IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING INSTALLATION REQUIREMENTS OF THIS EQUIPMENT WITH THE APPLICABLE SUPPLIER OR THE OWNER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
13.	IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
14.	ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE CONVENIENTLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.
15.	DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD CLASS A.
16.	COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
17.	VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
18.	LOCATE THERMOSTATS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
19.	ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
20.	DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
21.	DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
22.	PROVIDE AND INSTALL SMOOTH TURN RADIUS ELBOWS IN ALL RECTANGULAR 90° ELBOWS AND TEES, UNLESS NOTED OTHERWISE.
23.	EXHAUST DUCTS SHALL TERMINATE IN ACCORDANCE WITH ARKANSAS MECHANICAL CODE AND BE EQUIPPED WITH A BACKDRAFT DAMPER.
24.	CONTRACTOR SHALL PROVIDE ALL AIR TEMPERATURE CONTROLS INCLUDING WIRING, THERMOSTATS AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS.
25.	PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, DUCTWORK, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF ITEMS AND EQUIPMENT.
26.	PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DESIGNATED SPACES OF THE ELECTRICAL EQUIPMENT. EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NEW EQUIPMENT		BALL VALVE
	EXISTING EQUIPMENT TO REMAIN		GATE VALVE
	EXISTING EQUIPMENT TO BE DEMOLISHED		BUTTERFLY VALVE (LEVER HANDLE)
	EXISTING DUCT/PIPING TO BE DEMOLISHED		BUTTERFLY VALVE (GEAR OPERATOR)
	EXISTING DUCT/PIPING TO REMAIN		OS & Y GATE VALVE
	NEW DUCT/PIPING		GLOBE VALVE
	THERMOSTAT WIRE		CHECK VALVE (SWING CHECK)
	THERMOSTAT		CHECK VALVE (BUTTERFLY CHECK)
	BUILDING PRESSURE SENSOR		STRAINER W/ DRAIN VALVE
	POINT OF CONNECTION TO EXISTING		UNION
	POINT OF DEMOLITION		CONTROL VALVE (2-WAY) ELECTRIC
	REVISION DELTA		CONTROL VALVE (3-WAY) ELECTRIC
	MANUAL VOLUME DAMPER		PLUG VALVE
	STREAMLINE CONNECTION (RECT. TO ROUND)		FLEXIBLE PIPE CONNECTOR
	STREAMLINE CONNECTION (RECT. TO RECT.)		METAL BELLOWS PUMP CONNECTOR
	STREAMLINE CONNECTION WITH MANUAL VOLUME DAMPER (RECT. TO ROUND)		AIR VENT (A - AUTO, H - HAND)
	FLEXIBLE DUCT		PRESSURE AND TEMPERATURE TAP
	SIDE WALL GRILLE		PRESSURE GAUGE
	GRILLE DESIGNATION (GRILLE SCHEDULE DESIGNATION / CFM AIRFLOW)		PRESSURE GAUGE W/ SIPHON
	SUPPLY DIFFUSER		THERMOMETER
	RETURN GRILLE		FLANGE
	EXHAUST GRILLE		FLANGE (WELD NECK)
	SUPPLY RECTANGULAR DUCT UP		ELBOW, TURNED UP
	RETURN RECTANGULAR DUCT UP		ELBOW, TURNED DOWN
	EXHAUST RECTANGULAR DUCT UP		RISE OR DROP IN PIPE
	SUPPLY RECTANGULAR DUCT DOWN		TEE, SIDE CONNECTION
	RETURN RECTANGULAR DUCT DOWN		TEE, OUTLET UP
	EXHAUST RECTANGULAR DUCT DOWN		TEE, OUTLET DOWN
	ROUND DUCT UP		CAPPED OUTLET
	ROUND DUCT DOWN		CAPPED PIPE
	MOTORIZED DAMPER		CONCENTRIC REDUCER
	ECCENTRIC REDUCER		ECCENTRIC REDUCER
	RECT. AND/OR ROUND DUCT 90° 1X RADIUS ELBOW		PIPE TO FLOOR DRAIN
	RECT. AND/OR ROUND DUCT 90° 1.5X RADIUS ELBOW		CONDENSER SUPPLY WATER
	RECT. AND/OR ROUND DUCT 45° 1X RADIUS ELBOW		CONDENSER RETURN WATER
	RECT. ELBOW (WITH TURNING VANES)		HEATING WATER SUPPLY
	RECT. ELBOW (WITHOUT TURNING VANES)		HEATING WATER RETURN
	SINGLE LINE CONTINUATION		CHILLED WATER SUPPLY
	AIR FLOW ARROW		CHILLED WATER RETURN
	FLOW ARROW		CONDENSATE DRAIN
	ACCESS PANEL		SUPPLY AIR DUCT
			RETURN AIR DUCT
			EXHAUST AIR DUCT
			CUBIC FEET PER MINUTE
			ROUND DIAMETER

REVISIONS:	
ISSUE DATE:	10.07.21
SHEET TITLE:	MECHANICAL GENERAL NOTES AND LEGEND
SHEET NUMBER:	M001



DEMOLITION GENERAL NOTES

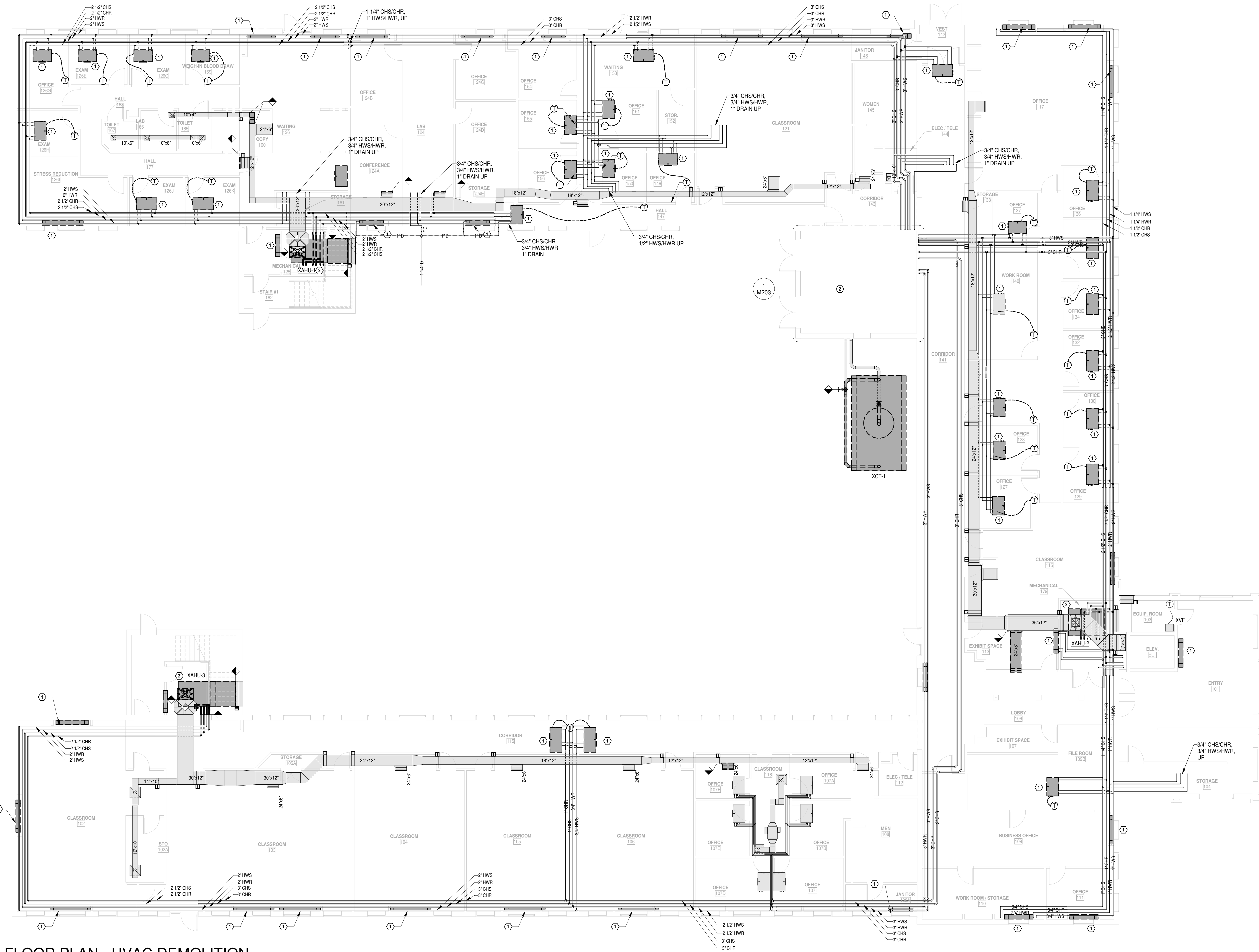
1. REMOVE ASSOCIATED THERMOSTAT AND WIRING FOR FAN COIL UNITS TO BE REMOVED.

DEMOLITION KEYED NOTES

- ① DEMOLISH FAN COIL UNIT AS SHOWN. CAP EXISTING CHILLED WATER AND HEATING WATER PIPING SO THAT THE PIPING CAN BE CONNECTED TO NEW FAN COIL UNIT.
- ② DEMOLISH ANY NON-FUNCTIONING OR UN-USED CONTROLS IN THIS SPACE.

HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



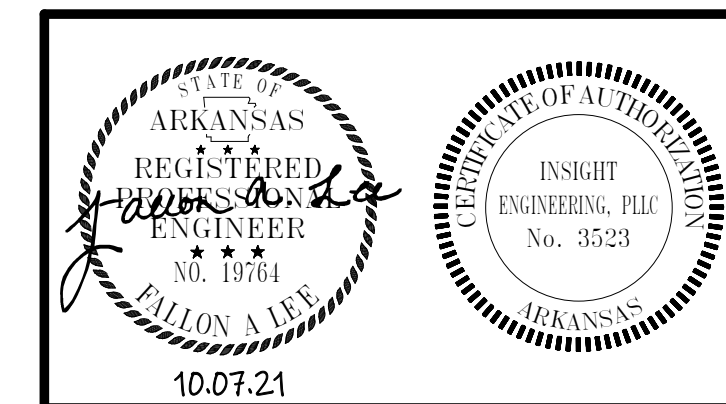
1 FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"

REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: FIRST LEVEL - HVAC DEMOLITION

SHEET NUMBER: M101

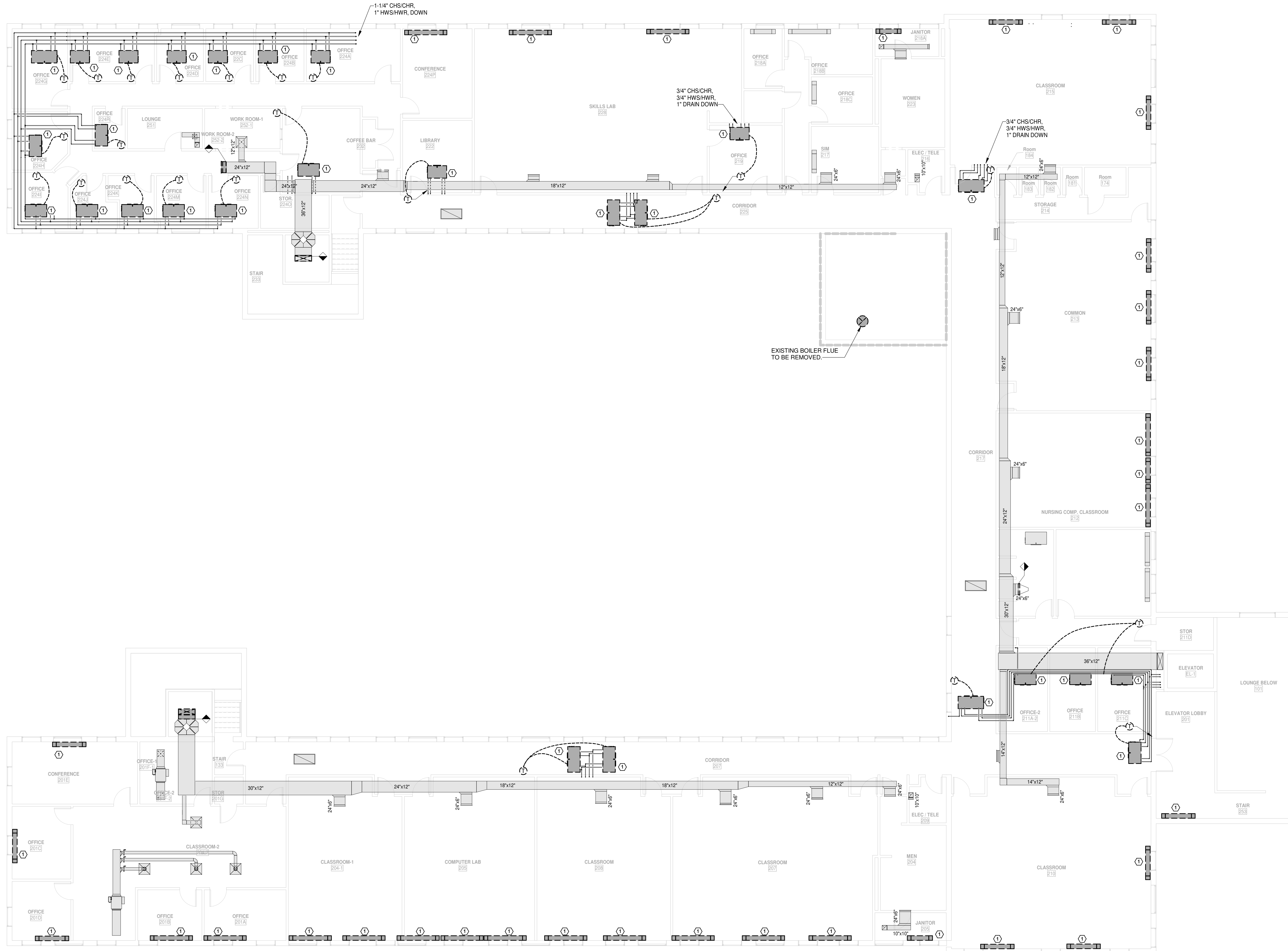


DEMOLITION GENERAL NOTES

- 1. REMOVE ASSOCIATED THERMOSTAT AND WIRING FOR FAN COIL UNITS TO BE REMOVED.

DEMOLITION KEYED NOTES

- ① DEMOLISH FAN COIL UNIT AS SHOWN. CAP EXISTING CHILLED WATER AND HEATING WATER PIPING SO THAT THE PIPING CAN BE CONNECTED TO NEW FAN COIL UNIT.



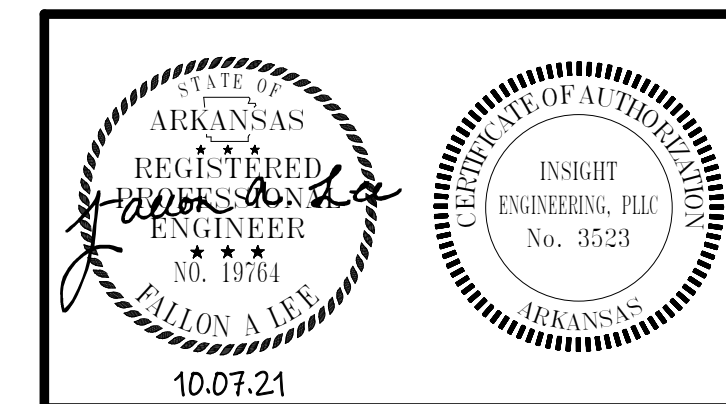
① SECOND LEVEL FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"

HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR

REVISIONS:

ISSUE DATE: 10.07.21



SHEET TITLE:
SECOND LEVEL FLOOR PLAN - HVAC DEMOLITION

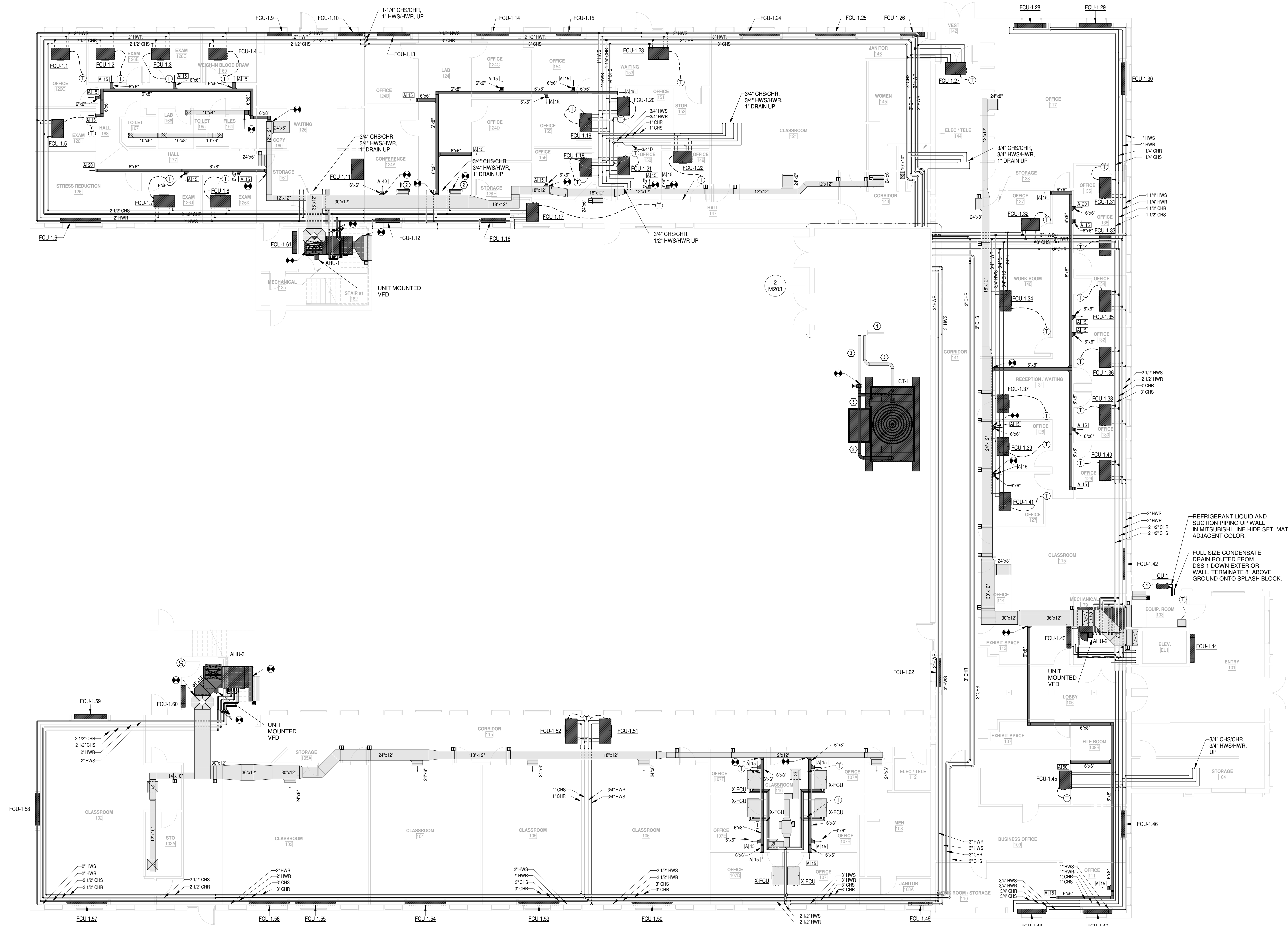
SHEET NUMBER:
M102

GENERAL NOTES

- NEW FAN COIL UNITS SHALL BE RECONNECTED TO EXISTING PIPING.

MECHANICAL KEYED NOTES

- INSTALL AUTOMATIC DAMPER TO INSIDE OF EXISTING 38" X 96" LOUVER. LOUVER SHALL BE INTERLOCKED WITH LIGHT SWITCH AND TEMPERATURE SENSOR INSIDE OF MECHANICAL BUILDING.
- CAP, SEAL, AND INSULATE DUCT.
- PROVIDE 9 W/ FT ON EXPOSED CONDENSOR WATER PIPING.
- PROVIDE 4" CONCRETE EQUIPMENT PAD. PAD SHALL EXTEND 6" BEYOND EACH SIDE OF EQUIPMENT.



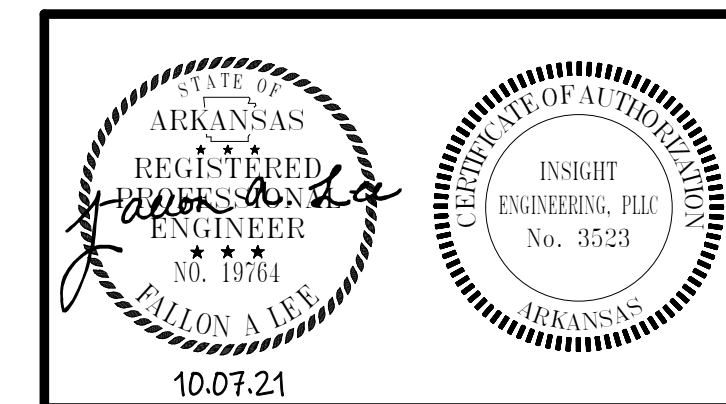
1 FIRST LEVEL FLOOR PLAN - HVAC
1/8" = 1'-0"

REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: FIRST LEVEL FLOOR PLAN - HVAC

SHEET NUMBER: M201



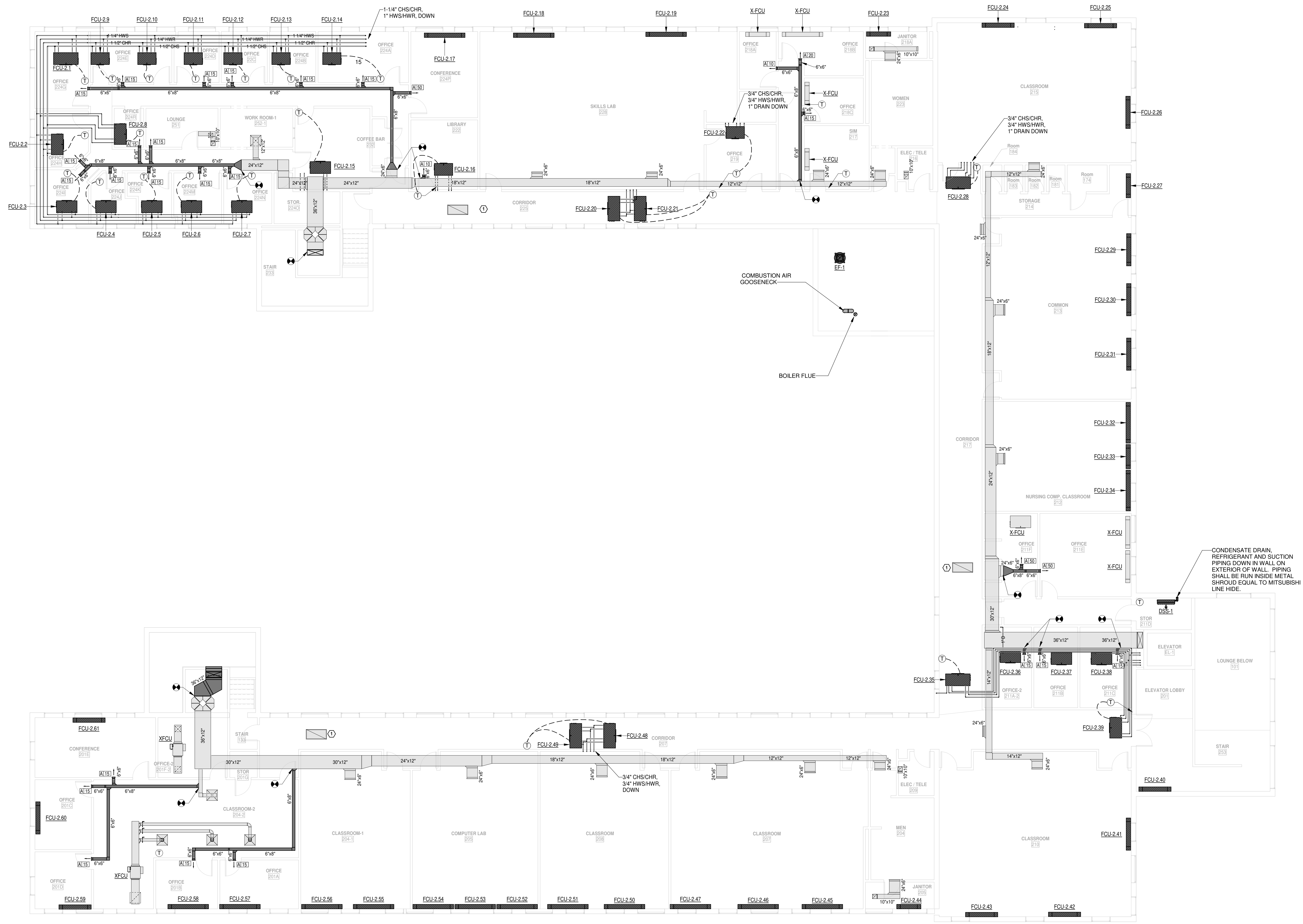
10.07.21

GENERAL NOTES

1. NEW FAN COIL UNITS SHALL BE RECONNECTED TO EXISTING PIPING.

MECHANICAL KEYED NOTES

① EXISTING MOTORIZED RELIEF DAMPER ABOVE CEILING. PROVIDE NEW ACTUATOR FOR DAMPER.



① **SECOND LEVEL FLOOR PLAN - HVAC**
1/8" = 1'-0"

HVAC SYSTEM UPGRADES FOR DEAN HALL

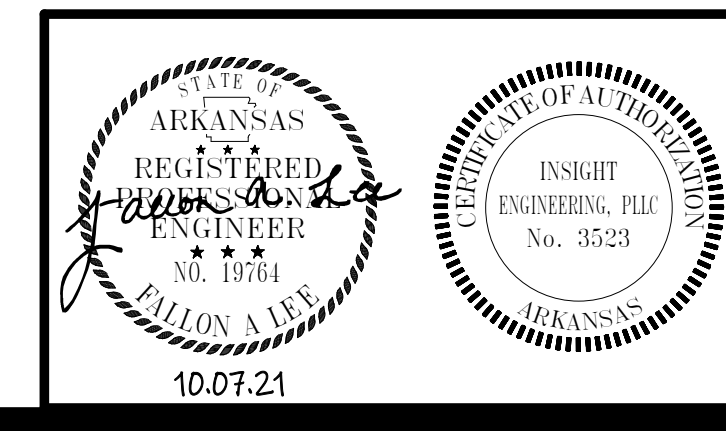
402 WEST O STREET
RUSSELLVILLE, AR

REVISIONS:

ISSUE DATE: 10.07.21

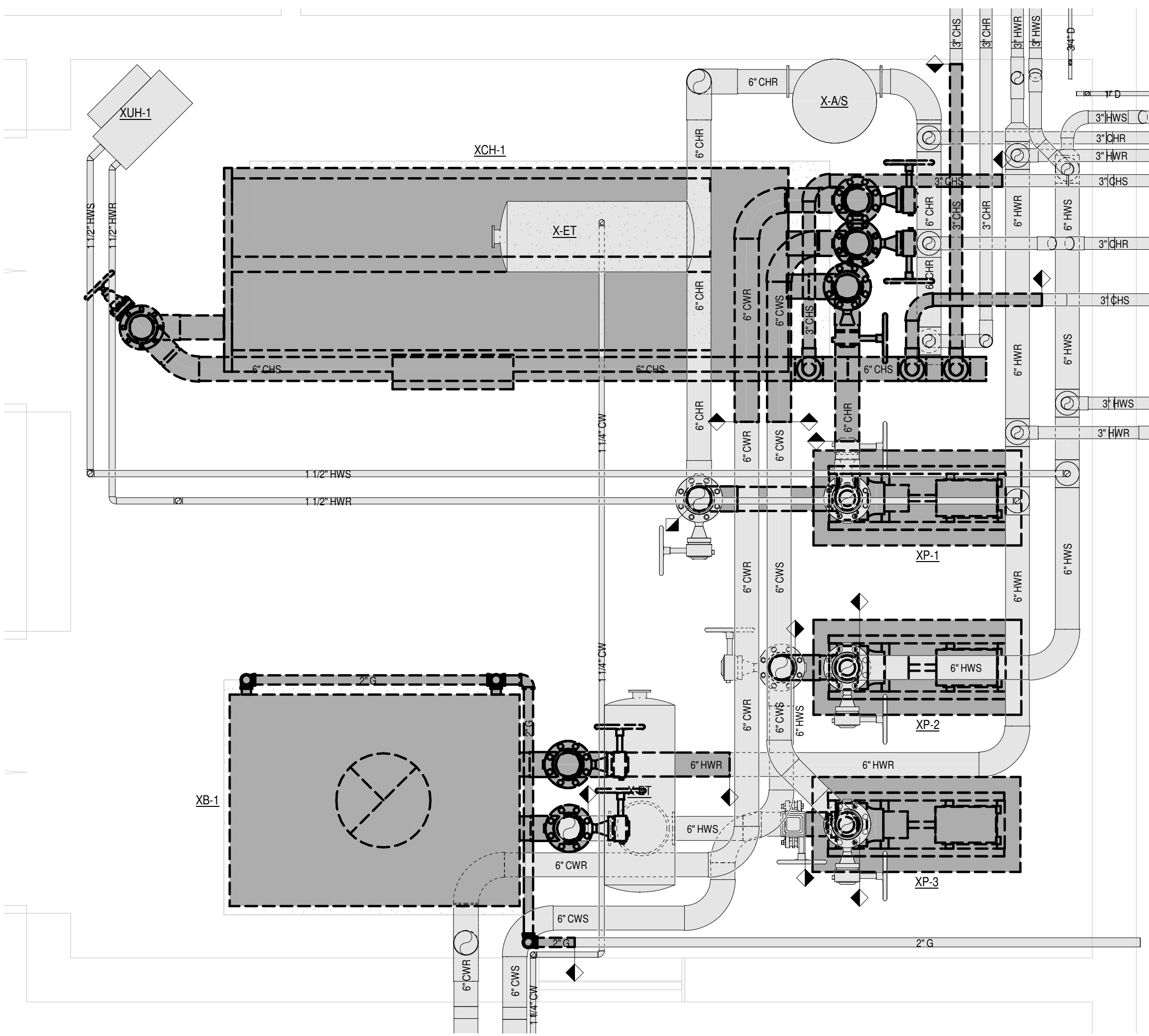
SHEET TITLE:
SECOND LEVEL FLOOR PLAN - HVAC

SHEET NUMBER:
M202

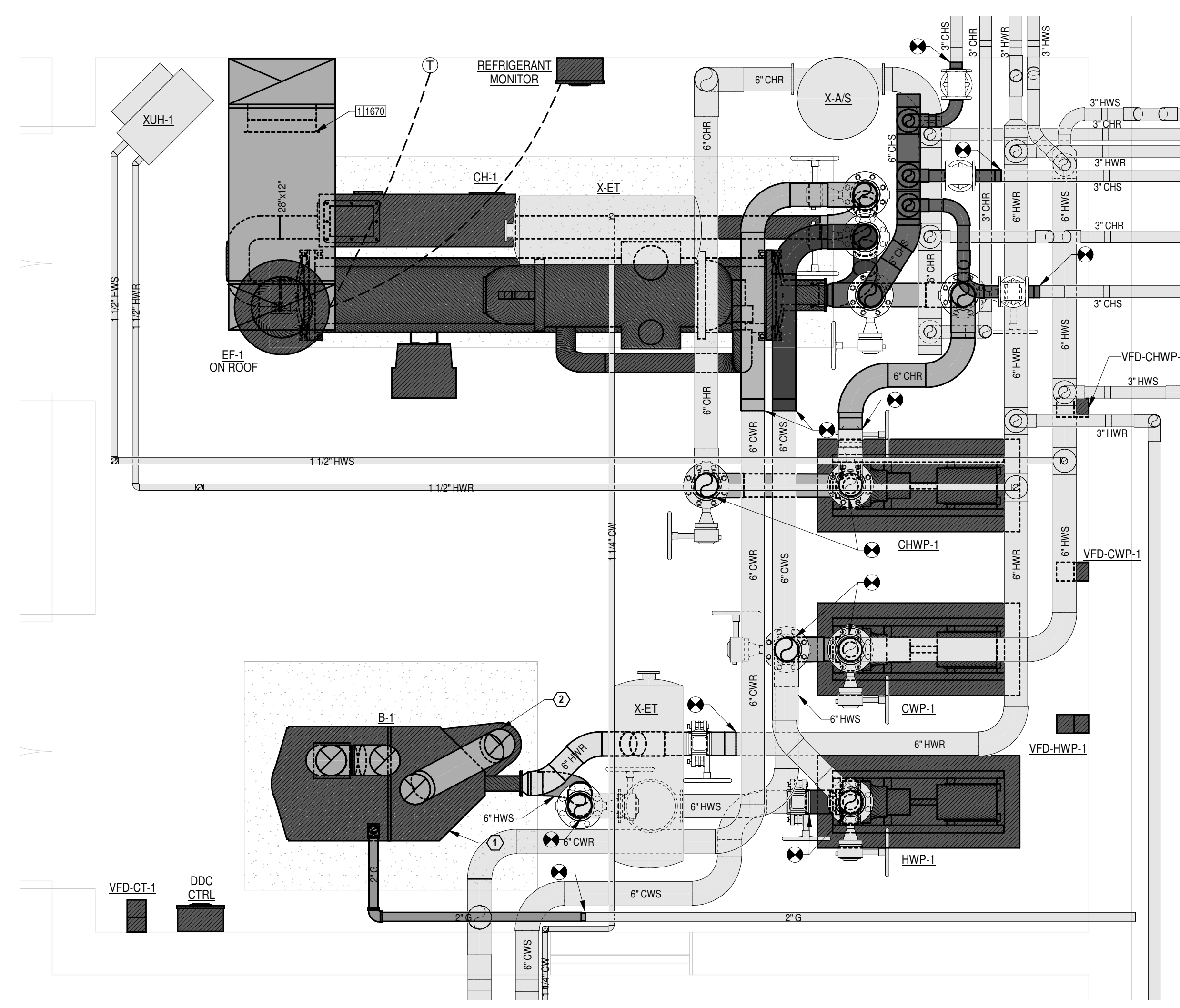


KEYED NOTES

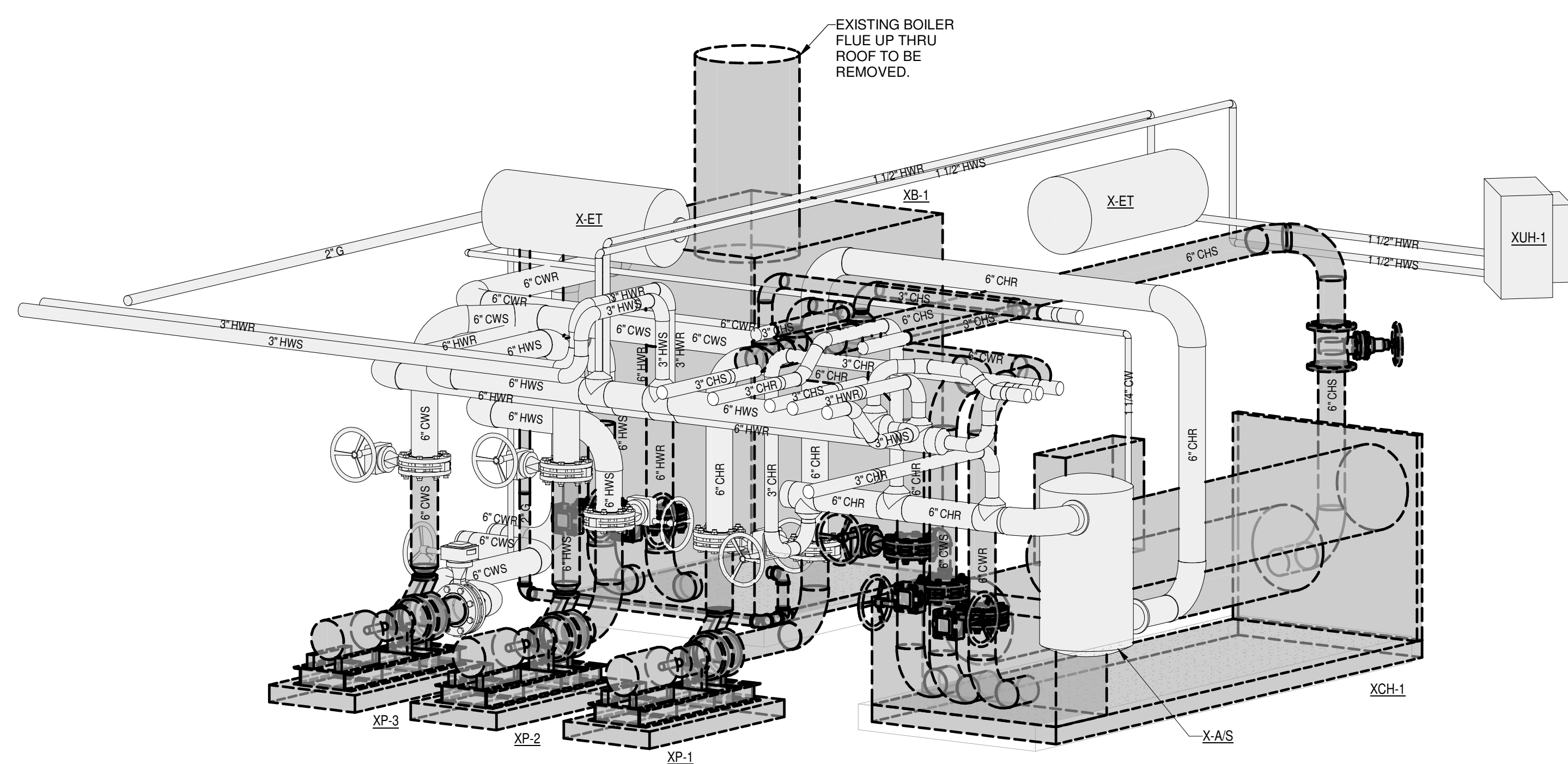
- ① ROUTE BOILER CLEAN-OUT DRAIN PIPING TO NEAREST FLOOR DRAIN.
- ② BOILER FLUE AND COMBUSTION AIR DUCT UP TO EXISTING PENETRATION. INSTALL GOOSENECK ON COMBUSTION AIR AND BIRDSCREEN ON BOTH COMBUSTION AIR AND FLUE PER MANUFACTURE'S RECOMMENDATIONS.



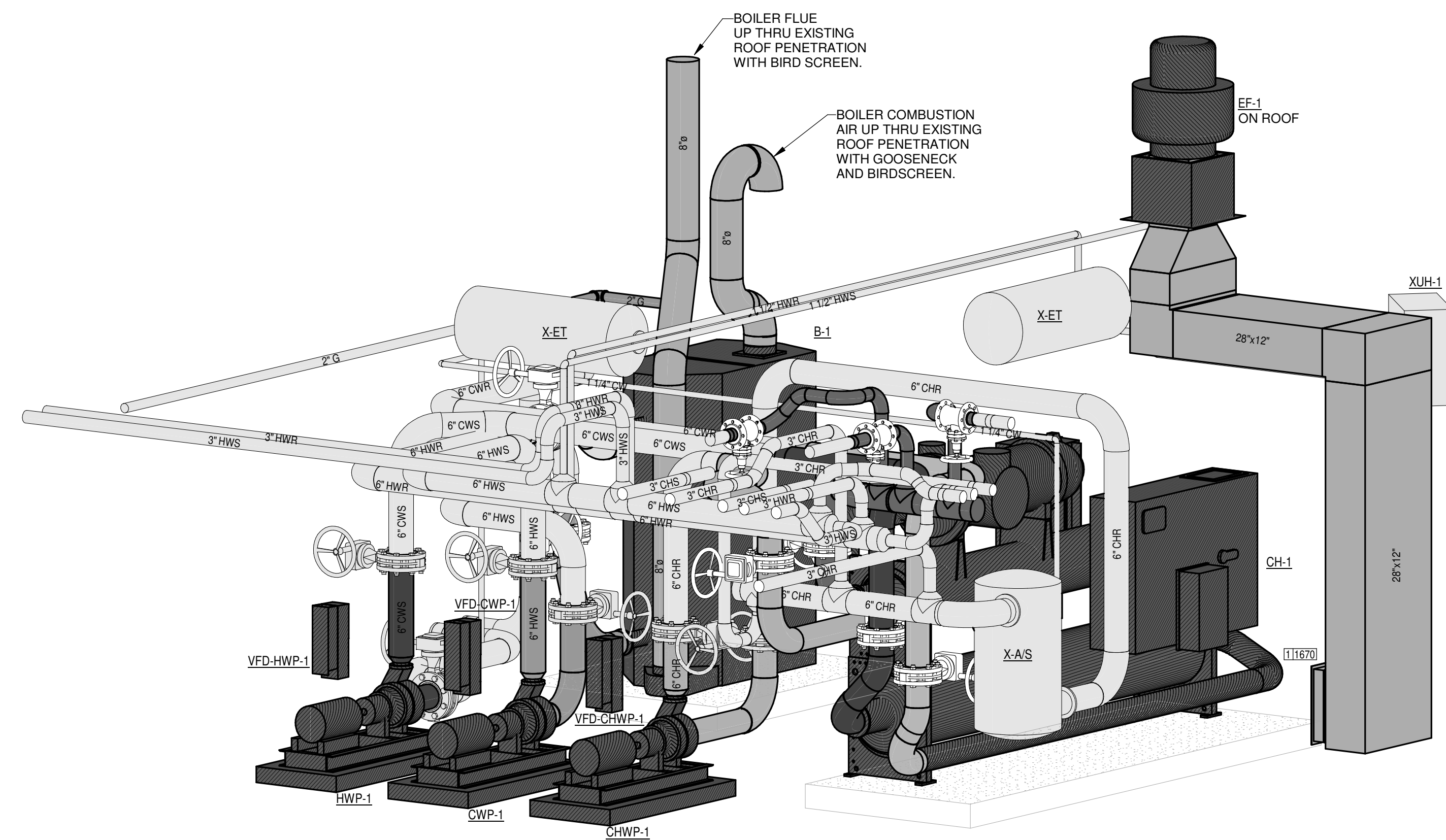
① ENLARGED MECH ROOM FLOOR PLAN - HVAC DEMOLITION
1/2" = 1'-0"



② ENLARGED MECH ROOM FLOOR PLAN - HVAC
1/2" = 1'-0"



③ 3D MECH RM DEMOLITION
NOT TO SCALE:



④ 3D MECH RM NEW
NOT TO SCALE:

REVISIONS:

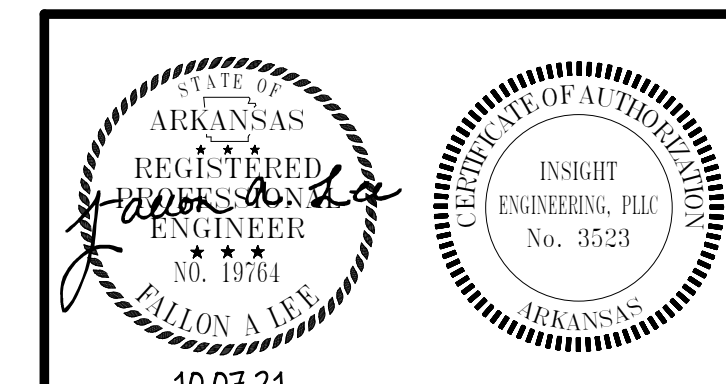
NO.	DATE	DESCRIPTION

ISSUE DATE: 10.07.21

SHEET TITLE:
MECHANICAL ENLARGED FLOOR PLANS

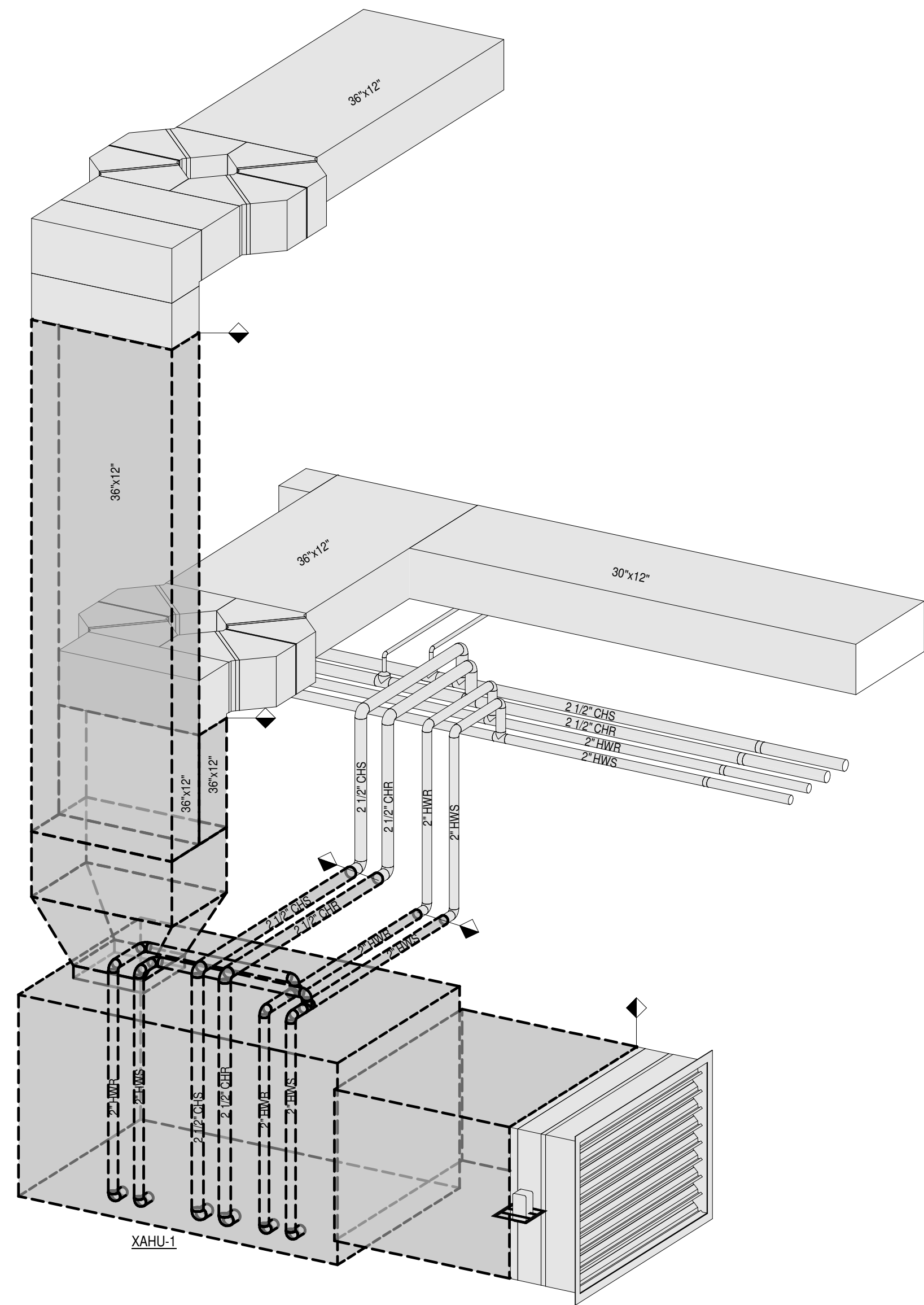
SHEET NUMBER:

M203

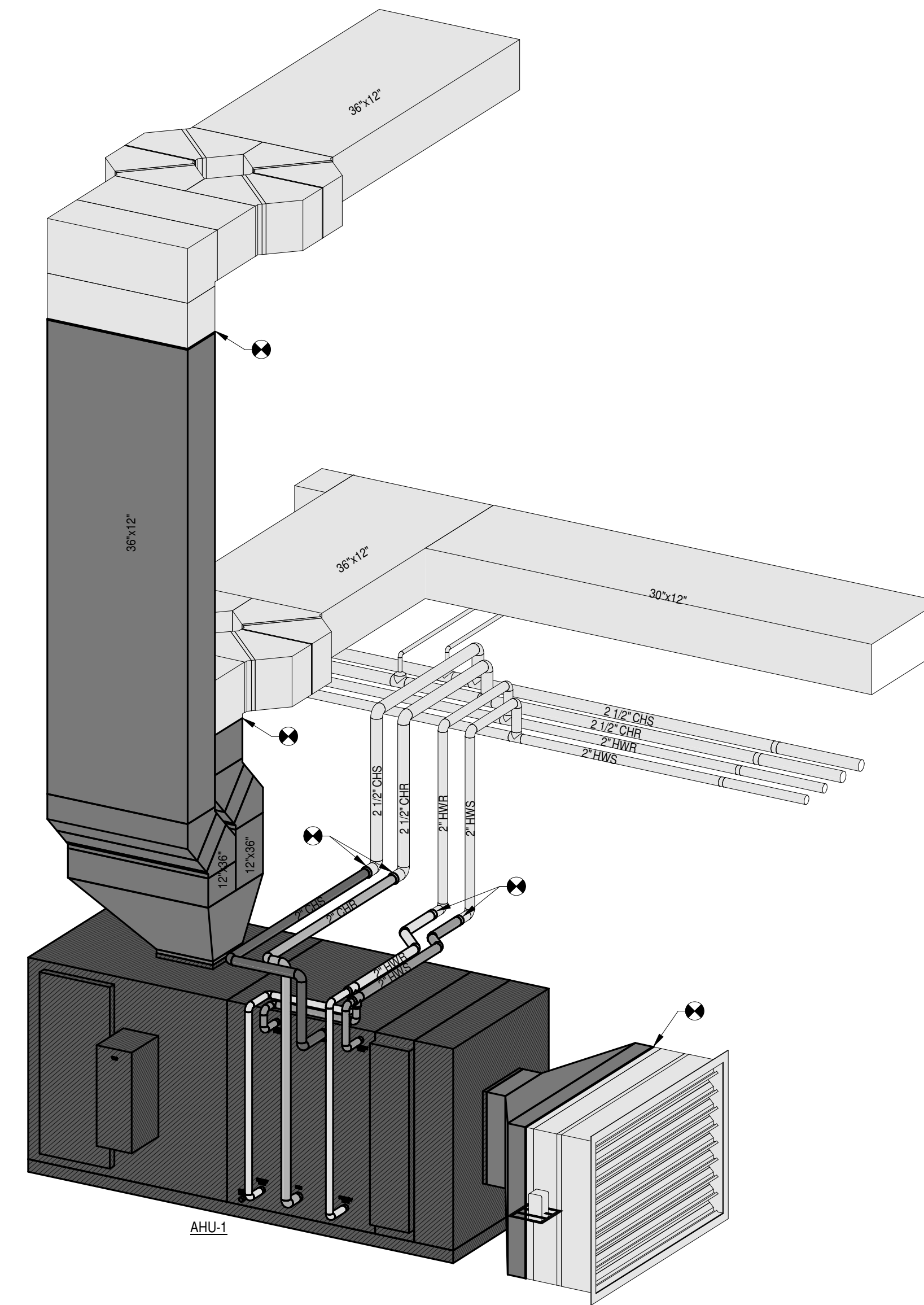


HVAC SYSTEM UPGRADES FOR DEAN HALL

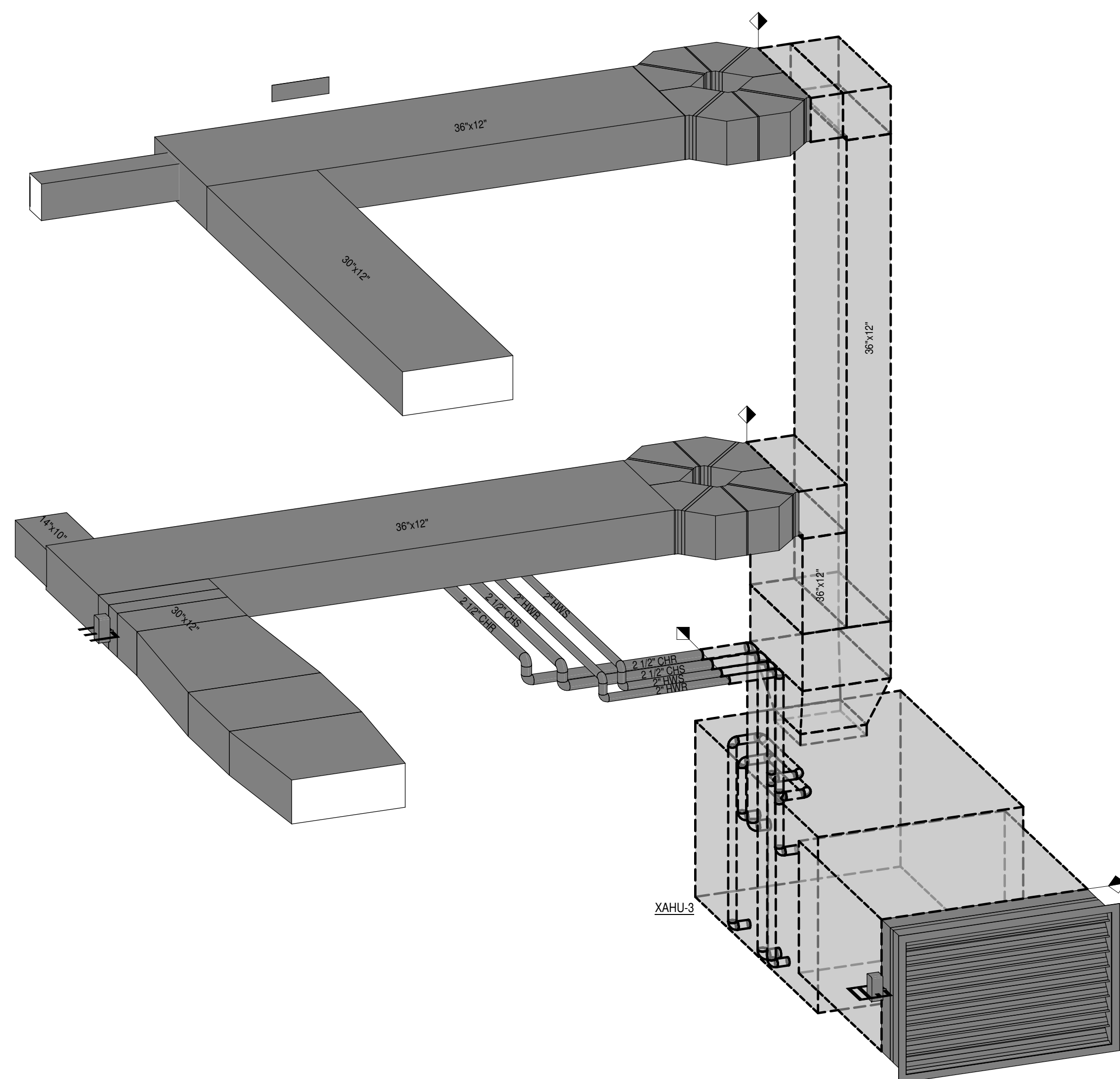
402 WEST O STREET
RUSSELLVILLE, AR



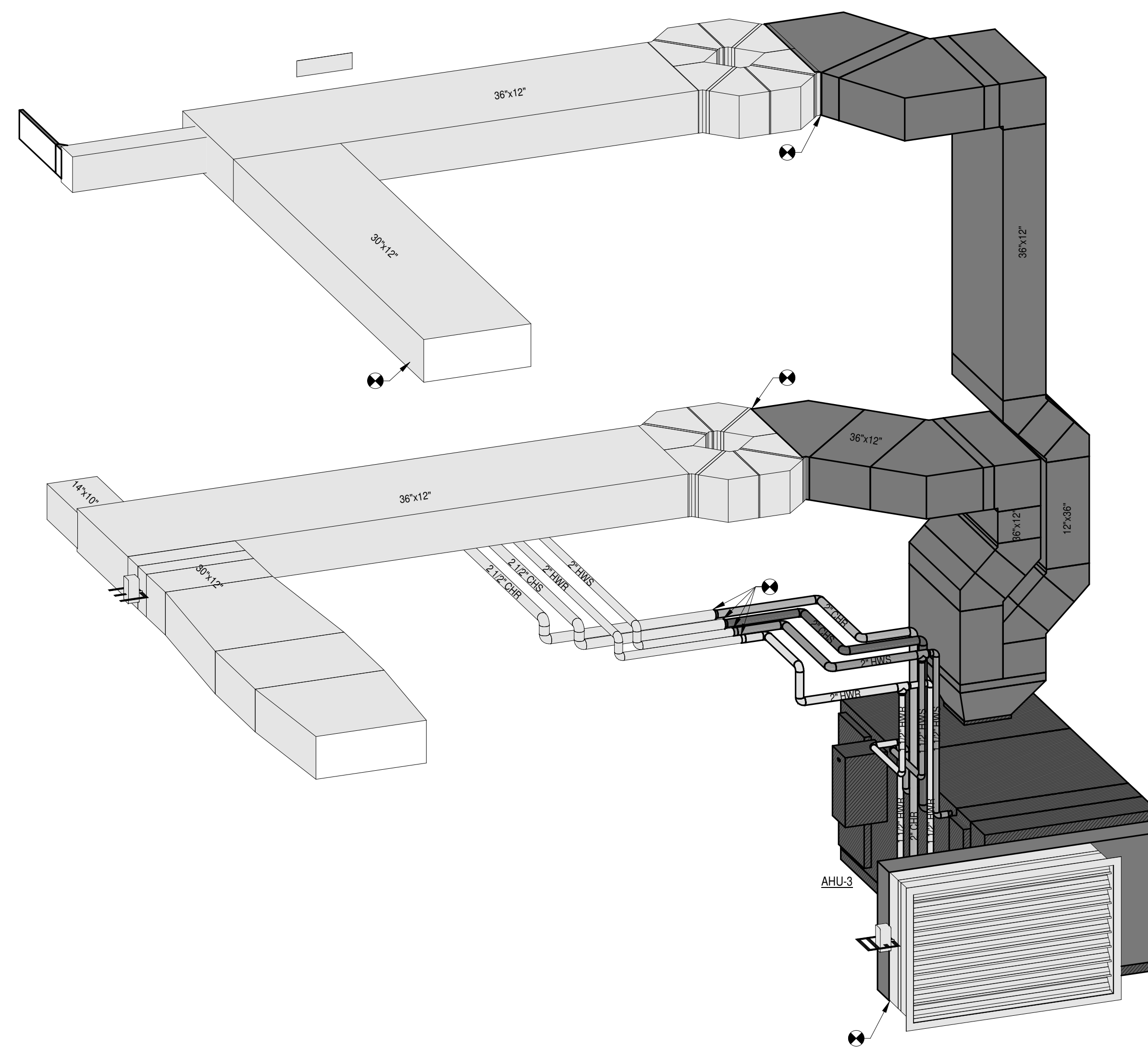
1 3D HVAC - XAHU-1 DEMOLITION
NOT TO SCALE:



2 3D HVAC - AHU-1 NEW
NOT TO SCALE:



3 3D HVAC - XAHU-3 DEMOLITION
NOT TO SCALE:



4 3D HVAC - XAHU-3 NEW
NOT TO SCALE:

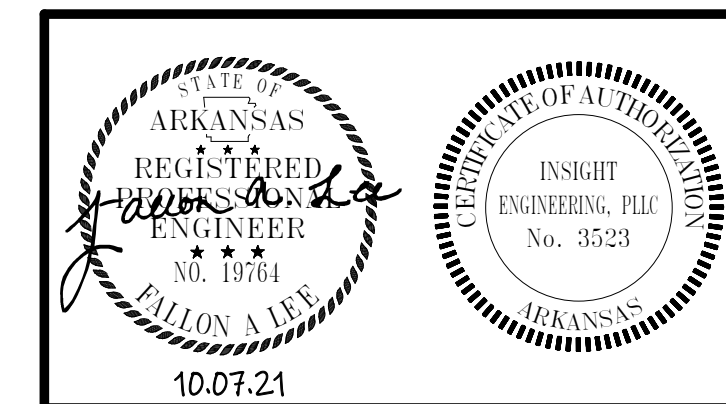
REVISIONS:

ISSUE DATE: 10.07.21

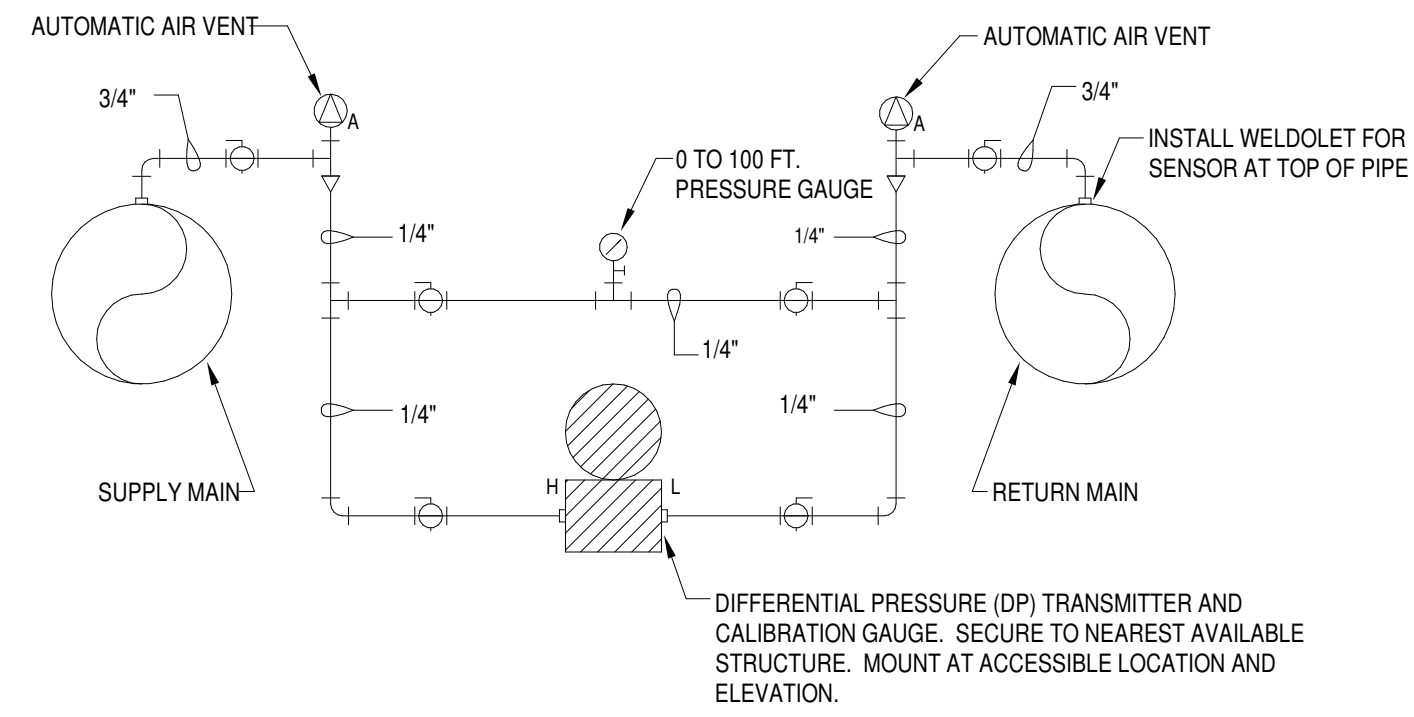
SHEET TITLE:
MECHANICAL 3D VIEWS

SHEET NUMBER:

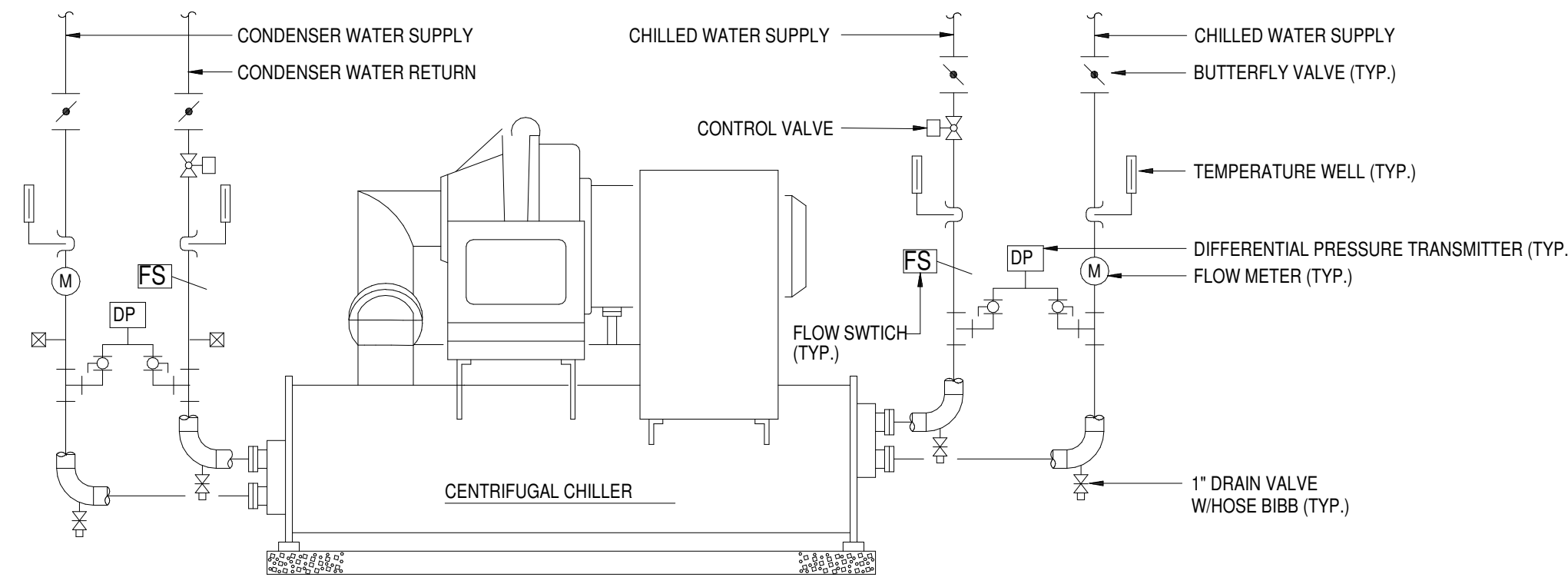
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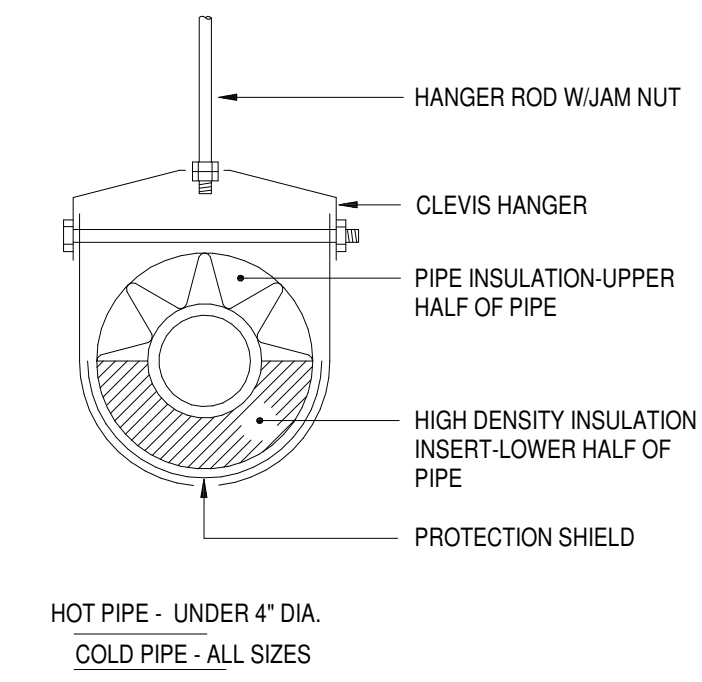
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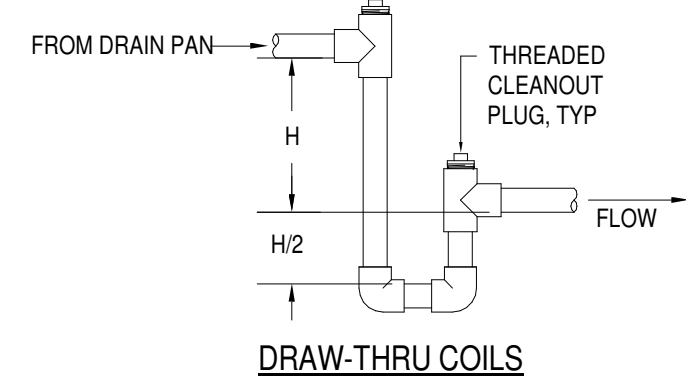
1 DIFFERENTIAL PRESSURE TRANSMITTER DETAIL
NOT TO SCALE:



2 CENTRIFUGAL CHILLER DETAIL
NOT TO SCALE:

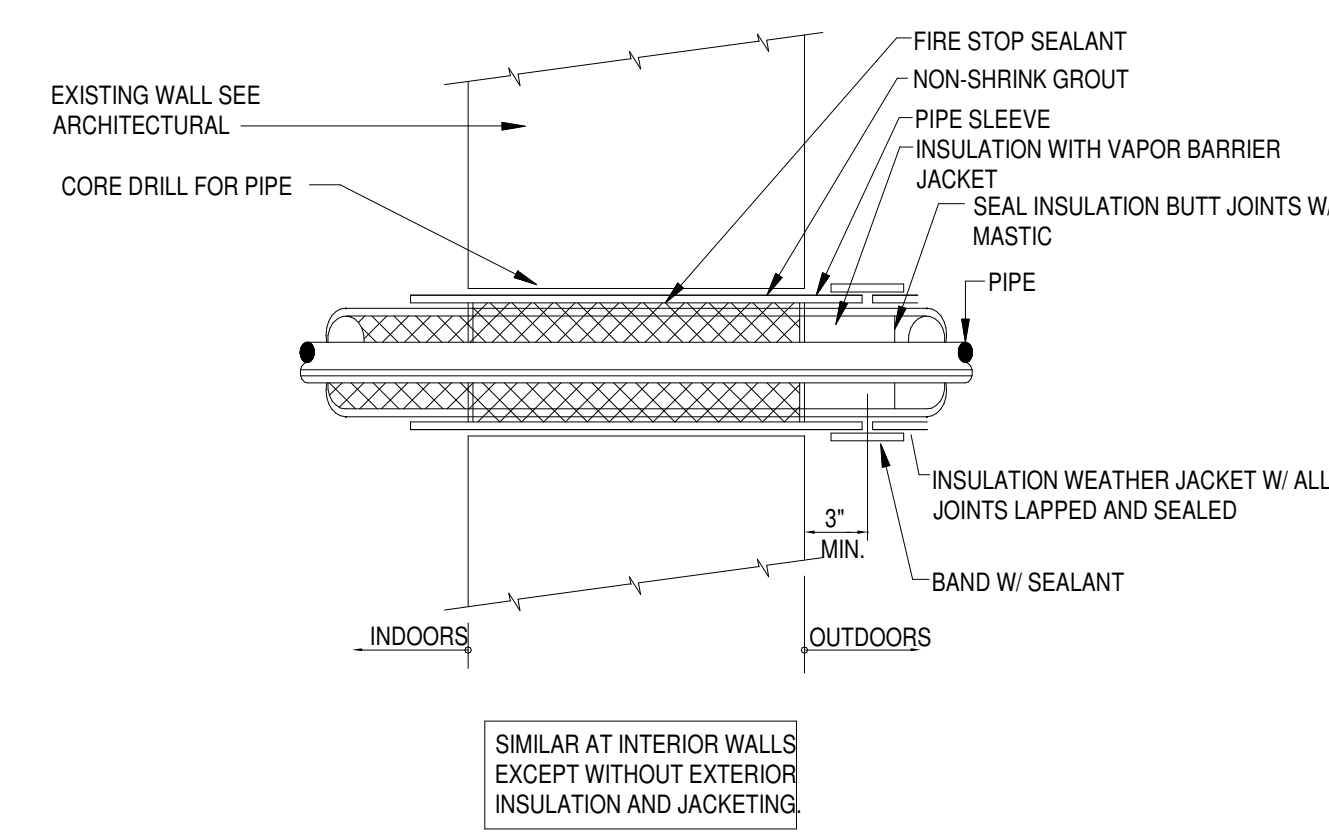


3 HANGER DETAILS - INSULATED PIPE DETAIL
NOT TO SCALE:

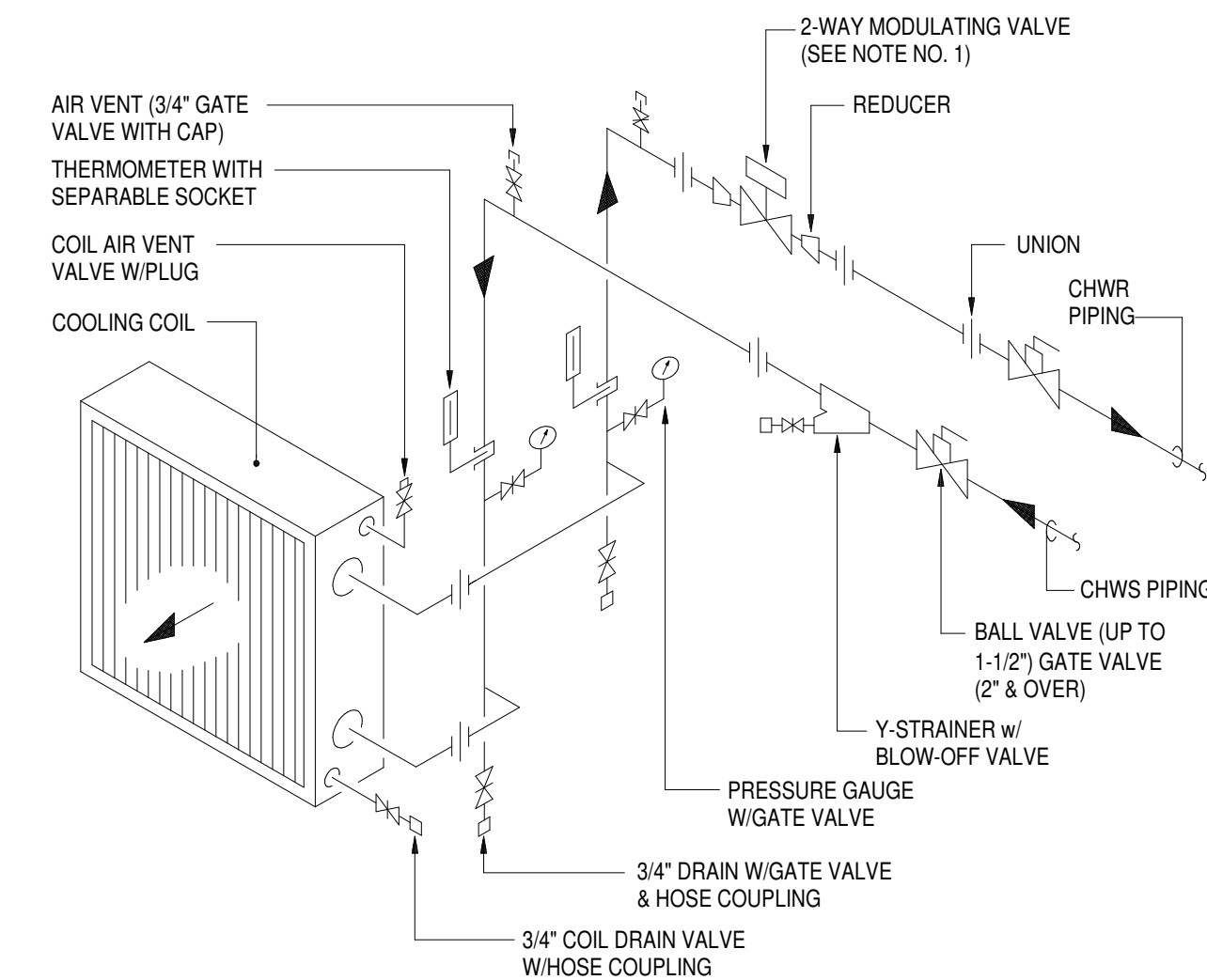


- NOTES:**
- FOR DRAW-THRU COILS: H = FAN INLET PRESSURE (IN W.C.) + 1", BUT NO LESS THAN 2".
 - FAN INLET OUTLET PRESSURE (WHICHEVER IS APPLICABLE) SHALL BE MEASURED DURING AIR TEST AND BALANCE. TRAP DEPTH SHALL BE ADJUSTED AS REQUIRED TO MEET OR EXCEED MINIMUM DEPTH.
 - PRE-FORMED RUNNING TRAPS ARE NOT ACCEPTABLE.
 - TRAP PIPE DIAMETER SHALL BE FULL SIZE OF FACTORY COIL CONNECTION, BUT NO LESS THAN 3/4".
 - CLEANOUT PLUGS MAY BE HAND TIGHTENED FOR EASE OF REMOVAL.
 - TRAPS SHALL BE INSULATED AS SPECIFIED FOR CONDENSATE DRAIN PIPING.
 - TRAPS SHALL BE LOCATED WITHIN 4" OF THE COIL.
 - CONDENSATE DRAIN SHALL TERMINATE WITH AN INDIRECT CONNECTION HAVING A MINIMUM 2" AIR GAP.

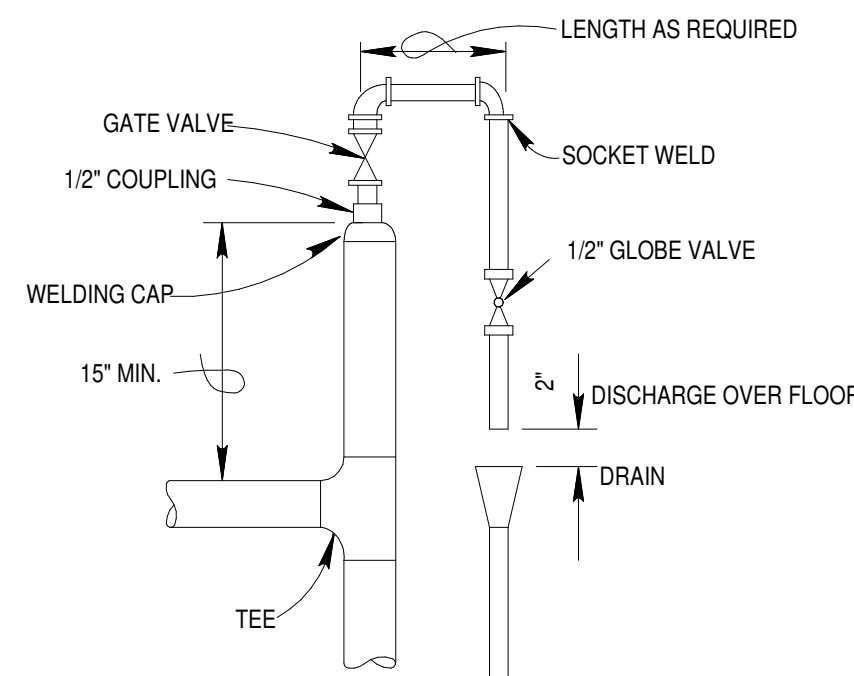
4 COIL CONDENSATE TRAP DETAIL
NOT TO SCALE:



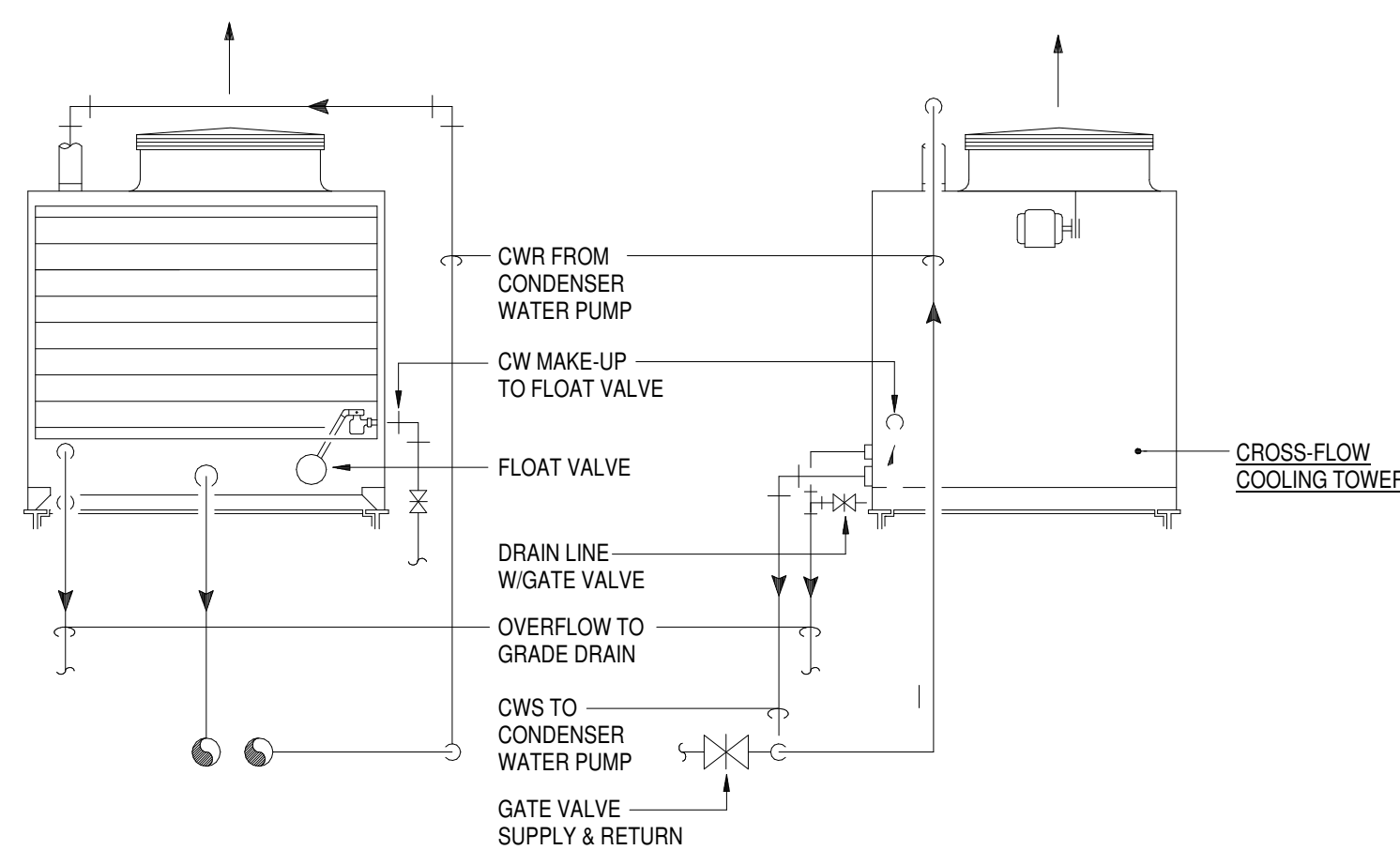
5 PIPE PENETRATION AT WALL DETAIL
NOT TO SCALE:



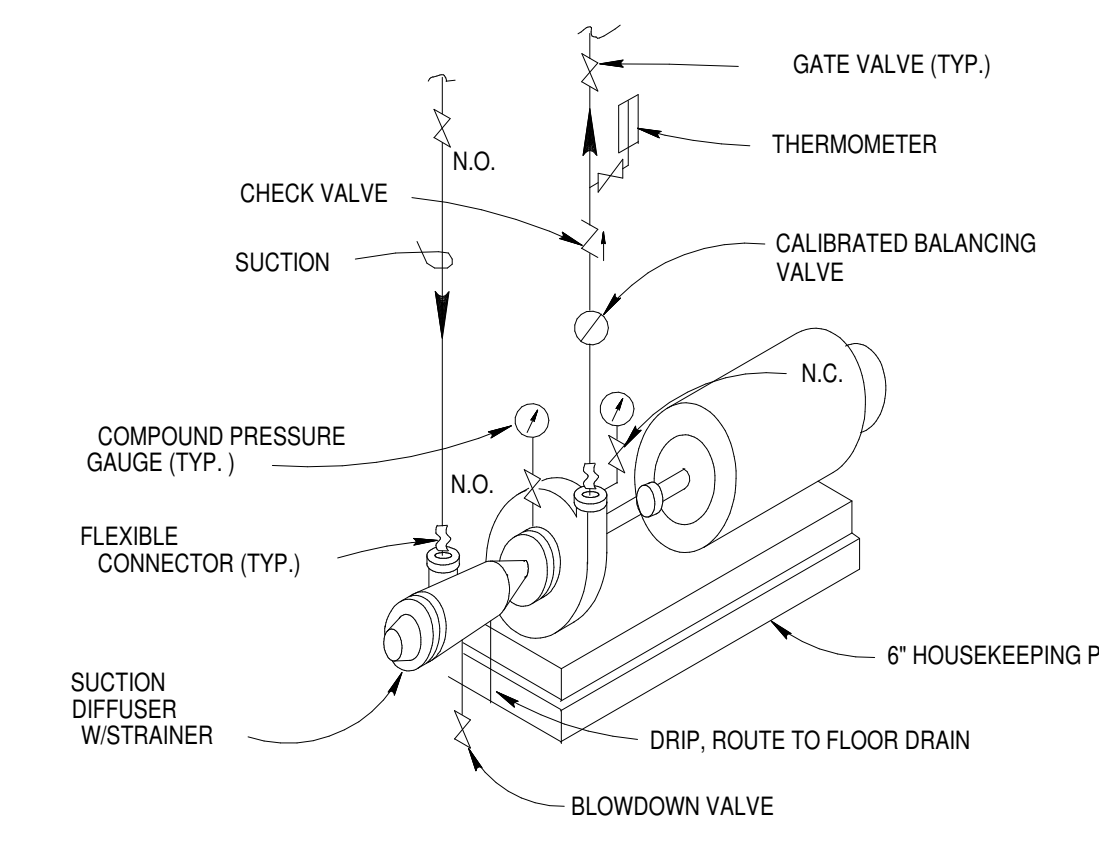
6 AIR HANDLING UNIT CHILLED WATER COIL PIPING DETAIL
NOT TO SCALE:



7 AIR VENT DETAIL
NOT TO SCALE:



8 CROSS-FLOW COOLING TOWER DETAIL
NOT TO SCALE:



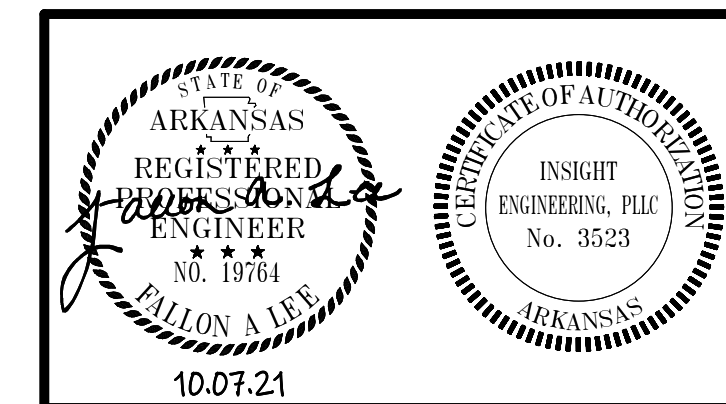
9 END SUCTION PUMP DETAIL
NOT TO SCALE:

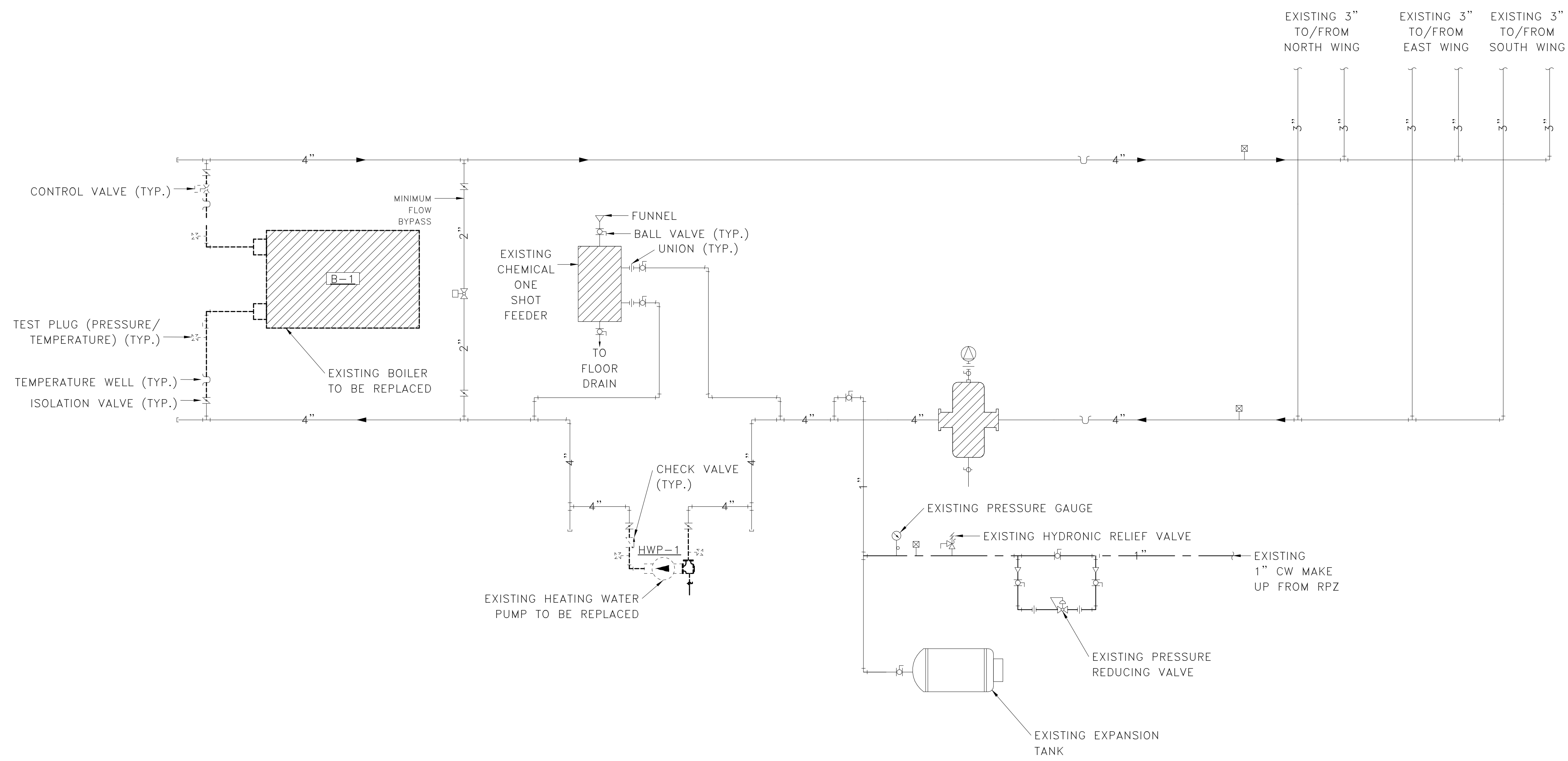
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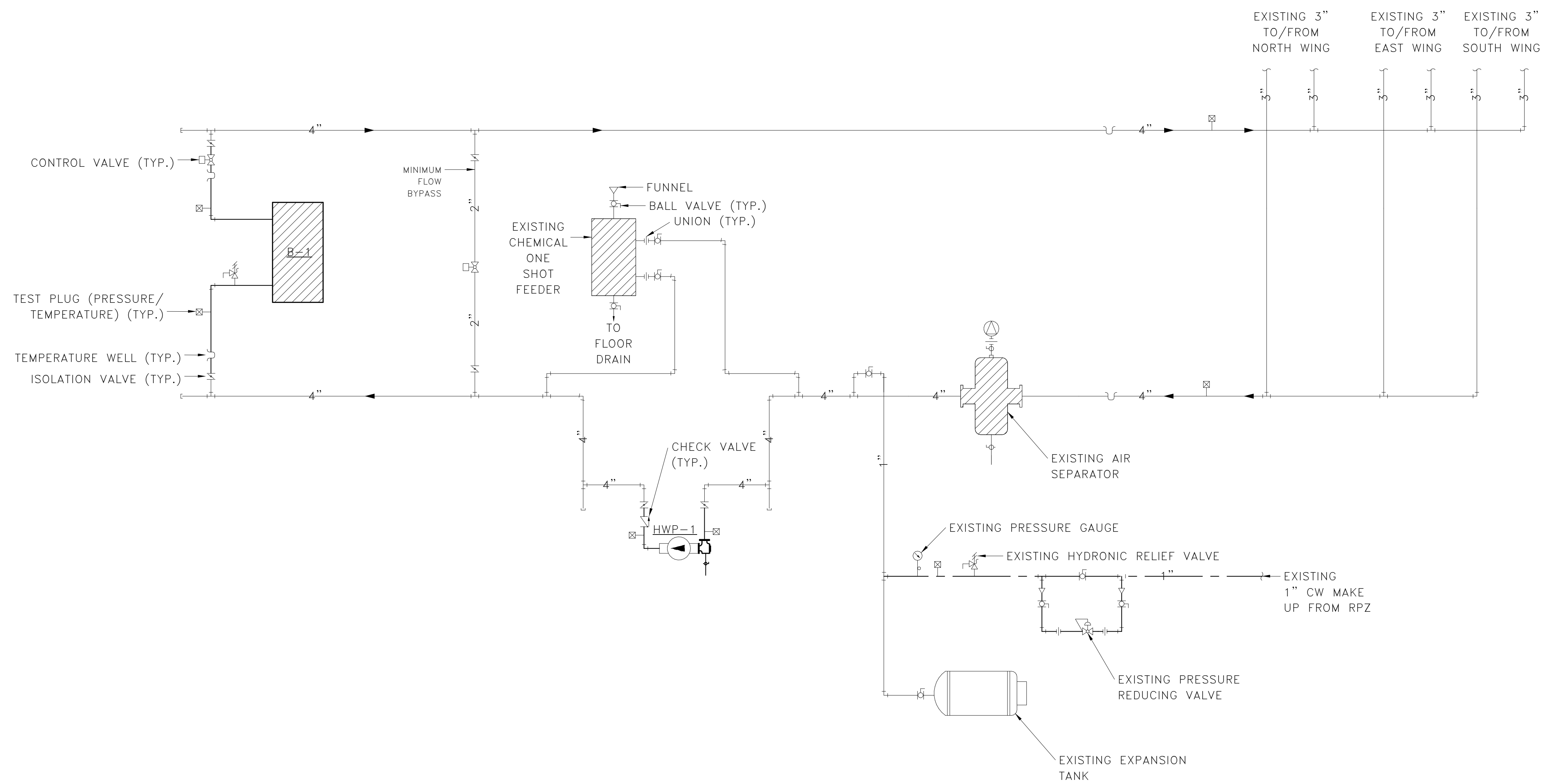
SHEET TITLE: MECHANICAL DETAILS

SHEET NUMBER: M301





1 HEATING WATER DEMOLITION PIPING DIAGRAM
NOT TO SCALE:



2 HEATING WATER PIPING DIAGRAM
1/8" = 1'-0"

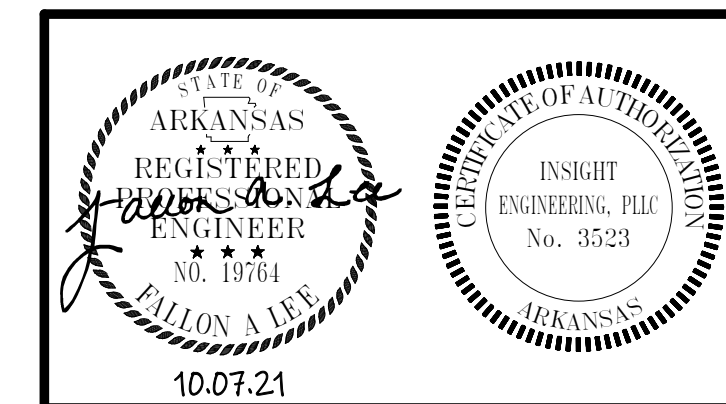
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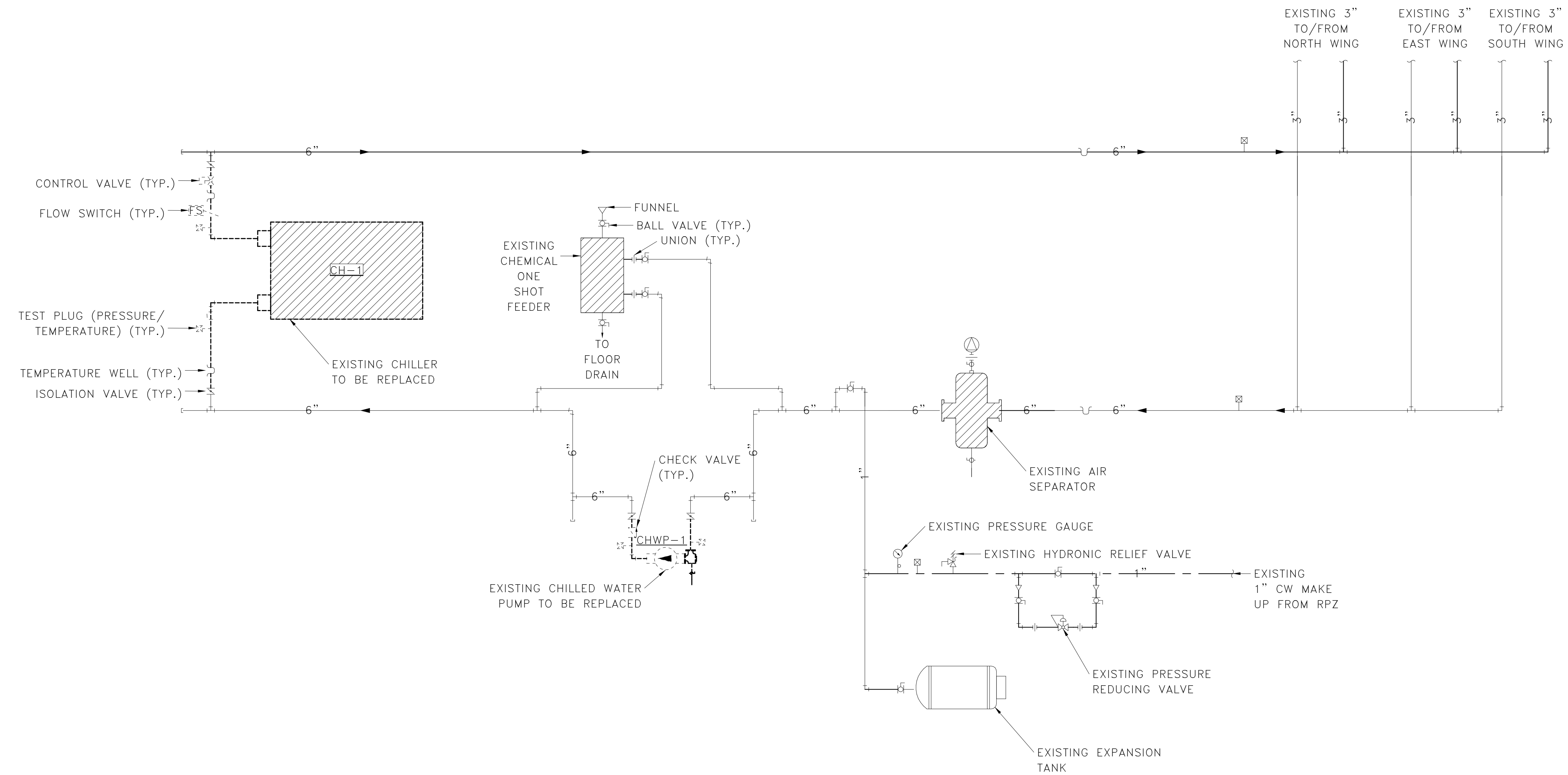
ISSUE DATE: 10.07.21

SHEET TITLE: MECHANICAL PIPING DIAGRAMS

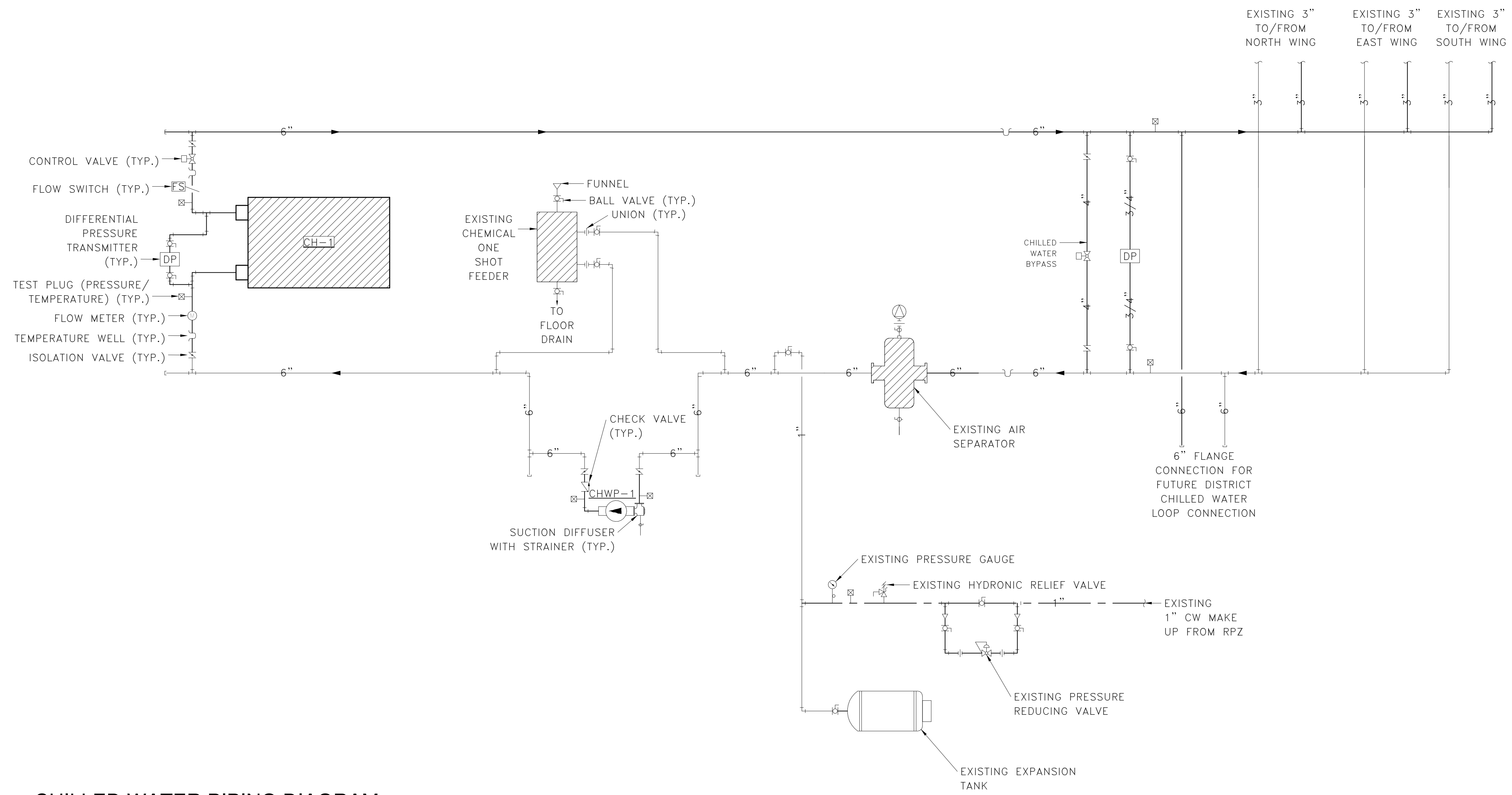
SHEET NUMBER:

M303





1 CHILLED WATER DEMOLITION PIPING DIAGRAM
NOT TO SCALE:



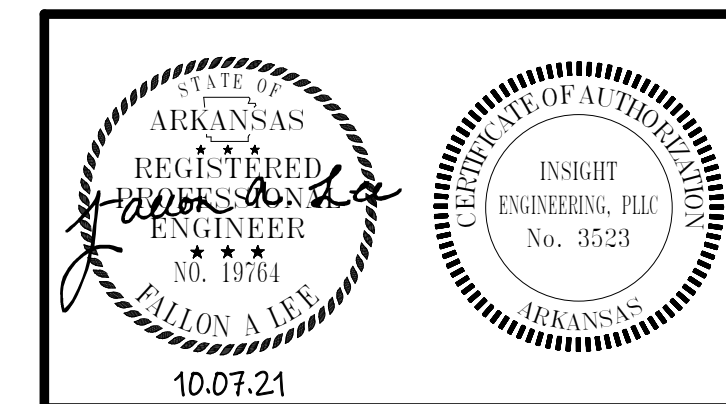
2 CHILLED WATER PIPING DIAGRAM
NOT TO SCALE:

REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: MECHANICAL PIPING DIAGRAMS

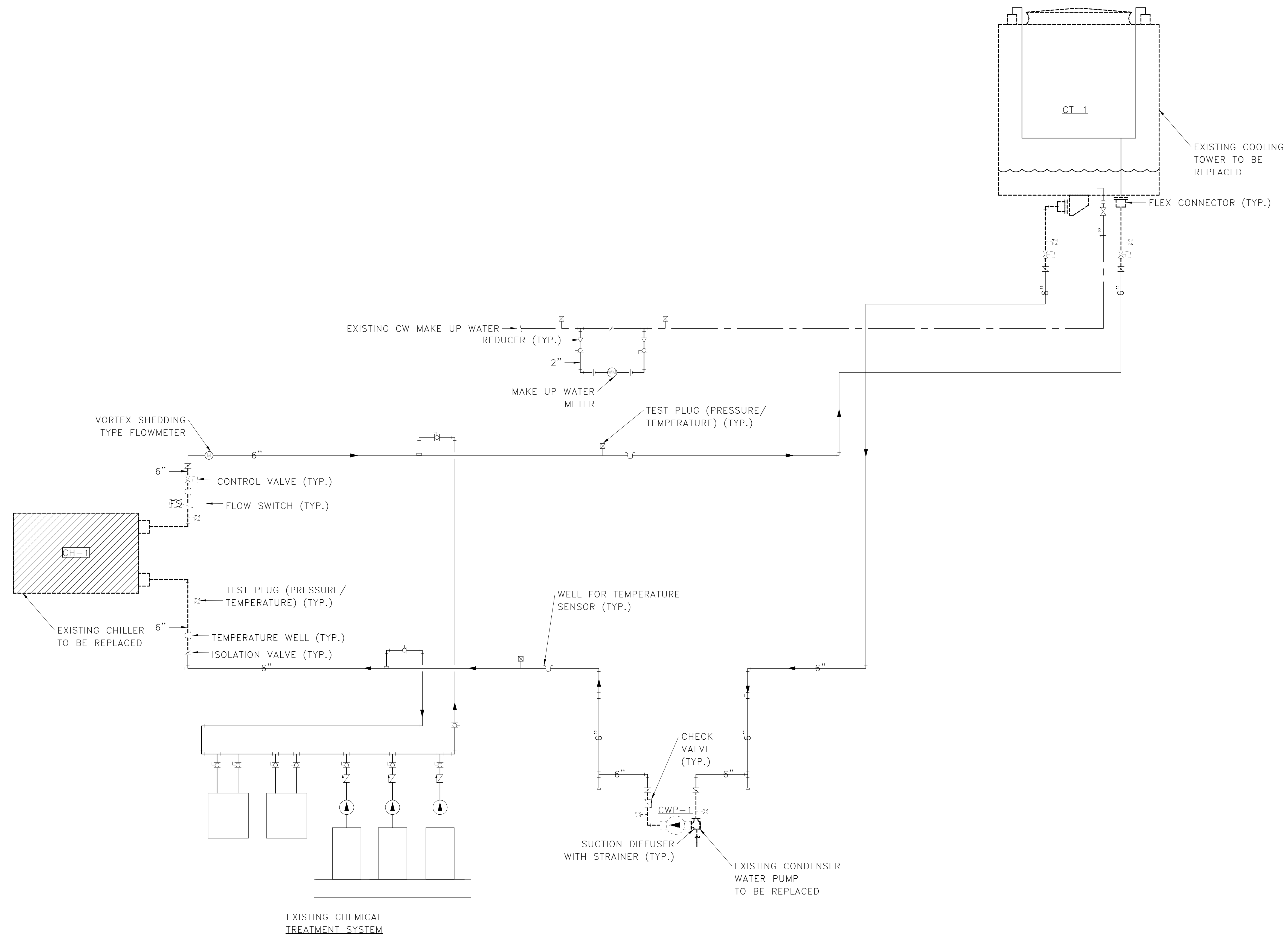
SHEET NUMBER:



M304

HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



1 CONDENSOR WATER DEMOLITION PIPING DIAGRAM
NOT TO SCALE:

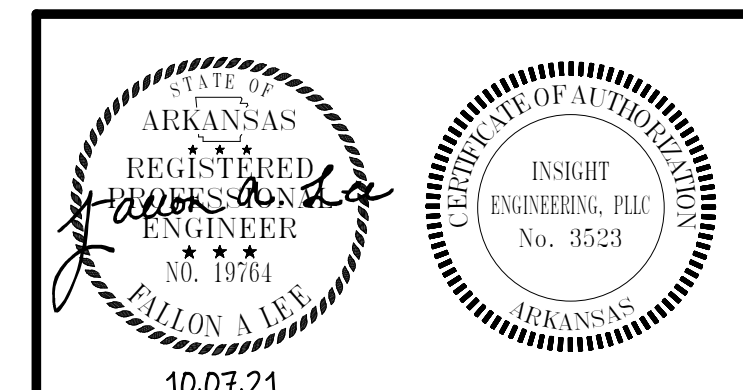
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ISSUE DATE: 10.07.21

SHEET TITLE:
MECHANICAL PIPING DIAGRAM

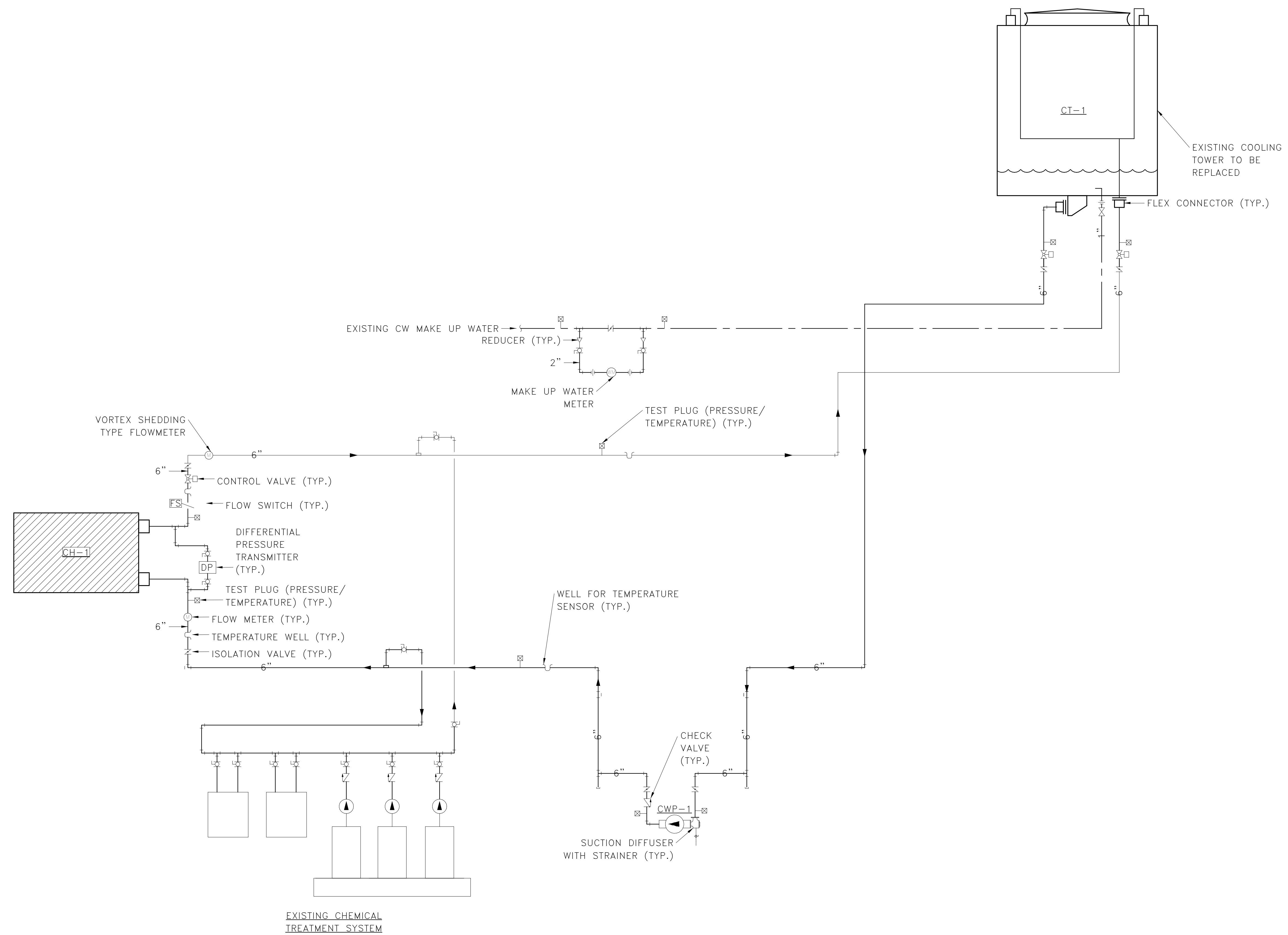
SHEET NUMBER:

M305



HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR



1 CONDENSOR WATER PIPING DIAGRAM
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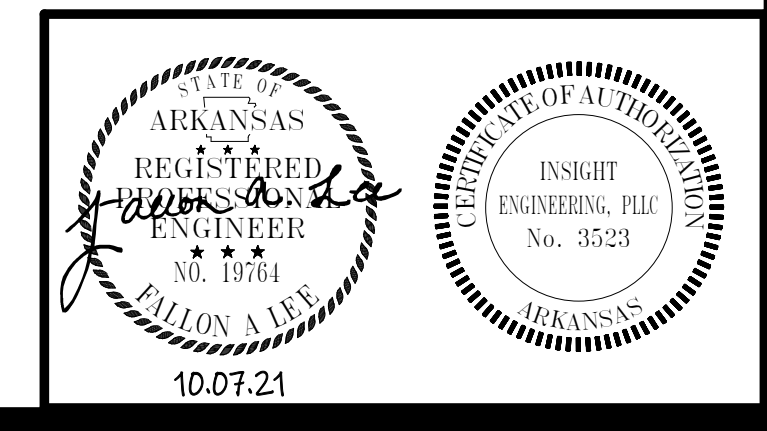
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ISSUE DATE: 10.07.21

SHEET TITLE:
MECHANICAL PIPING DIAGRAM

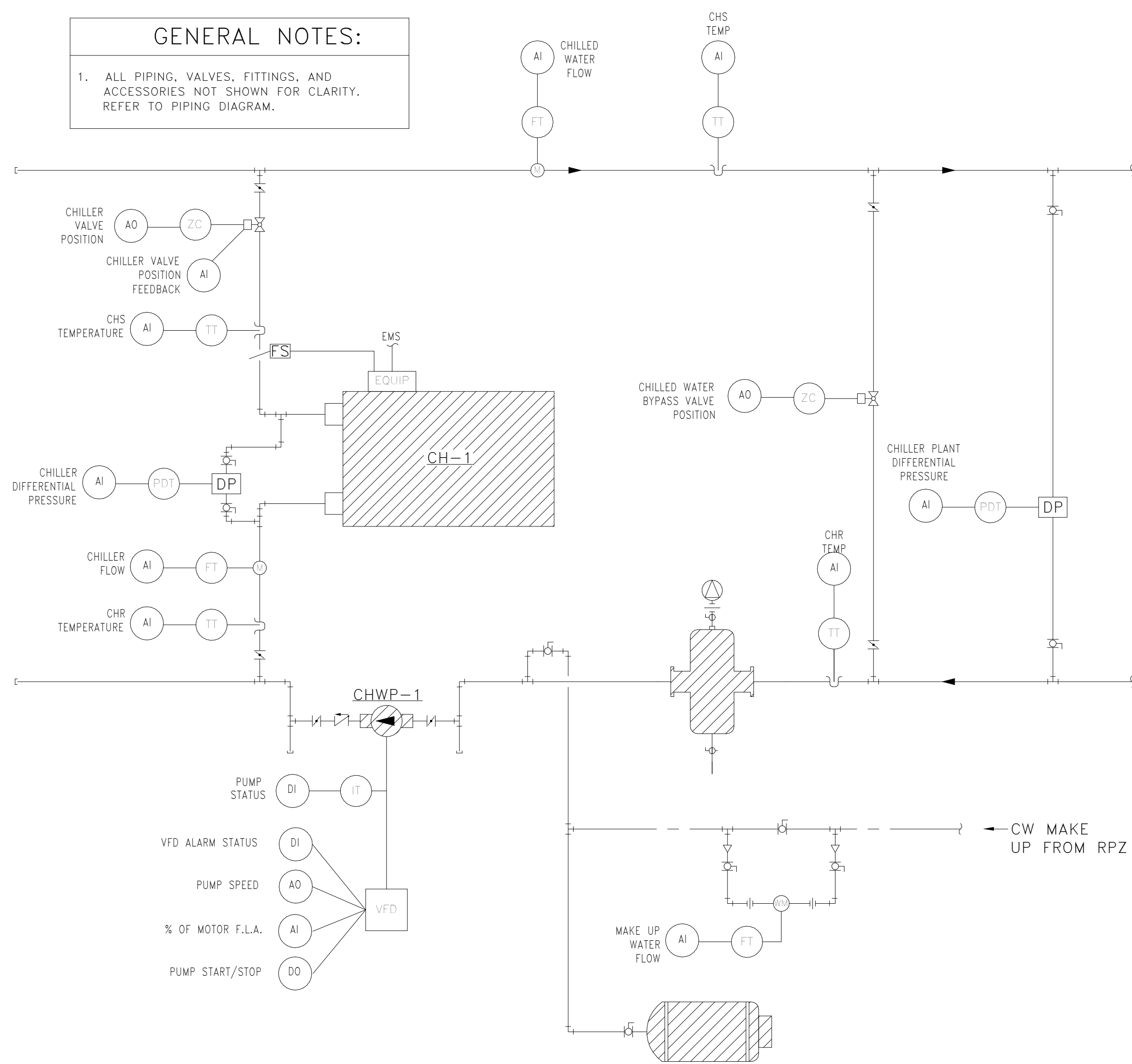
SHEET NUMBER:

M306



GENERAL NOTES:

1. ALL PIPING, VALVES, FITTINGS, AND ACCESSORIES NOT SHOWN FOR CLARITY. REFER TO PIPING DIAGRAM.



1 CHILLED WATER CONTROL DIAGRAM
NOT TO SCALE:

CONTROLS SYMBOLS LEGEND

(T)	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT	(ZC)	VALVE OR DAMPER POSITION CONTROLLER
(H)	HUMIDITY TRANSMITTER	(KR)	LOCAL RECORDING TIME CLOCK (RUNTIME)
(TT)	TEMPERATURE TRANSMITTER	(TSL)	TEMPERATURE SWITCH, LOW (FREEZESTAT)
(TT)	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT	(TSH)	TEMPERATURE SWITCH, HIGH (FREEZESTAT)
(MT)	MOISTURE (HUMIDITY) TRANSMITTER	(PSH)	PRESSURE SWITCH HIGH
(PT)	PRESSURE TRANSMITTER	(PSL)	PRESSURE SWITCH LOW
(SPS)	STATIC PRESSURE SENSOR	(EQUIP)	EQUIP CONTROL PANEL
(FT)	FLOW TRANSMITTER	(VFD)	VARIABLE FREQUENCY DRIVE
(IT)	CURRENT TRANSMITTER	(HOA)	HAND/OFF/AUTO SWITCH
(CT)	CONDUCTIVITY TRANSMITTER	(FSH)	FLOW SWITCH HIGH
(SR)	SMOKE DETECTOR	(FSL)	FLOW SWITCH LOW
(PDT)	PRESSURE DIFFERENTIAL TRANSMITTER	(AI)	ANALOG INPUT
(PDS)	PRESSURE DIFFERENTIAL SWITCH	(AO)	ANALOG OUTPUT
(HS)	HAND SWITCH (HAND-OFF-AUTO SWITCH)	(DI)	DIGITAL INPUT
(CE)	DAMPER POSITION CONTROLLER WITH INTEGRAL END SWITCH	(DO)	DIGITAL OUTPUT

SEQUENCE OF OPERATION

CHILLED WATER SYSTEM SEQUENCE OF OPERATION

GENERAL
ATC CONTRACTOR SHALL ESTABLISH TRENDS FOR ALL POINTS ON CONTROL DRAWINGS. TRENDS SHALL INDICATE SETPOINTS AND SHALL BE ON 15 MINUTE INTERVALS UNLESS OTHERWISE INDICATED. ALL TRENDS SHALL BE PERMANENTLY ARCHIVED ON THE BAS SERVER.

ATC CONTRACTOR SHALL TUNE ALL LOOPS FOR SMOOTH AND STABLE OPERATION.

GRAPHICS
CHILLED WATER SYSTEM GRAPHICS SHALL INCLUDE THE FOLLOWING ITEMS COMPILED FROM OTHER SYSTEMS OR CALCULATED AS REQUIRED:
 • SUMMARY TABLE OF ALL AVAILABLE CHILLED WATER VALVE POSITIONS WITH HIGHLIGHT OF MOST OPEN VALVE POSITION.
 • CHILLED WATER DELTA T
 • CONDENSER WATER DELTA T
 • CHILLED PLANT LOAD (TONS)

CHILLER
CHILLER SUPPLY TEMPERATURE SHALL BE RESET BASED ON OUTSIDE AIR DEWPOINT TEMPERATURE. WHEN THE CHILLER HAS TURNED DOWN TO MINIMUM DP/FLOW SETPOINT, THE CHILLER SUPPLY TEMPERATURE SHALL BE EQUAL TO THE MINIMUM OF 42 DEGREE F (ADJ) WHEN THE OUTSIDE AIR DEW POINT TEMPERATURE IS 48 DEGREE F (ADJ) OR HIGHER. THE CHILLER SUPPLY TEMPERATURE SHALL BE EQUAL TO A MAXIMUM OF 45 DEGREE F (ADJ) WHEN THE OUTSIDE AIR DEW POINT TEMPERATURE IS 40 DEGREE F (ADJ) OR LOWER. THE CHILLED WATER SUPPLY TEMPERATURE SHALL BE LINEARLY RESET BETWEEN MINIMUM AND MAXIMUM WHEN THE OUTSIDE AIR DEW POINT TEMPERATURE IS BETWEEN 40 DEGREE F (ADJ) AND 48 DEGREE F (ADJ). FACTORY CHILLER CONTROLS SHALL CONTROL THE CHILLER TO MAINTAIN SETPOINT.

CHILLER FLOW SETPOINTS SHALL BE LIMITED TO THE MANUFACTURER'S RECOMMENDED FLOW RATE OF CHANGE.

WHEN THE CHILLER IS ENABLED THE FOLLOWING SEQUENCE WILL OCCUR:
 1. OPEN EVAPORATED VALVE AND CONTROL TO EVAPORATOR WATER FLOW SETPOINT
 2. OPEN CONDENSER VALVE AND CONTROL TO CONDENSER WATER FLOW SETPOINT
 3. CHILLER SHALL START AFTER FLOW IS PROVEN BY FACTORY PROVIDED FLOW CONDENSER AND EVAPORATOR FLOW SWITCHES.

WHEN THE CHILLER IS DISABLED THE FOLLOWING SEQUENCE WILL OCCUR:
 1. CHILLER SHALL DISABLE
 2. CONDENSER WATER VALVE CLOSES UPON SIGNAL FROM CHILLER NO LONGER REQUESTING FLOW
 3. EVAPORATOR WATER VALVE CLOSES UPON SIGNAL FROM CHILLER NO LONGER REQUESTING FLOW

CHILLER ENABLE OR DISABLE SEQUENCE SHALL NOT START FOR 20 MINUTES (ADJ) AFTER THE CHILLER IS ENABLED OR DISABLED.

CHILLED WATER PUMP
THE CHILLED WATER PUMP SPEED SHALL MODULATE TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE, BETWEEN MINIMUM OF 15 PSI (ADJ) TO MAXIMUM OF 30 PSI (ADJ). PRESSURE SETPOINT SHALL BE AUTOMATICALLY RESET IN 0.1" INCREMENTS (ADJ) EVERY 1 MINUTE (ADJ) BASED ON THE MAXIMUM CHILLED WATER VALVE POSITION. IF THE MOST OPEN VALVE IS OPEN MORE THAN 95% THE PRESSURE SETPOINT SHALL INCREASE. IF THE MOST OPEN VALVE IS LESS THAN 80% THE PRESSURE SETPOINT SHALL BE DECREASED.

CHILLED WATER PLANT BYPASS VALVE
THE CHILLED WATER SYSTEM BYPASS VALVE SHALL MODULATE TO MAINTAIN THE MINIMUM FLOW RATE OF THE CHILLER.

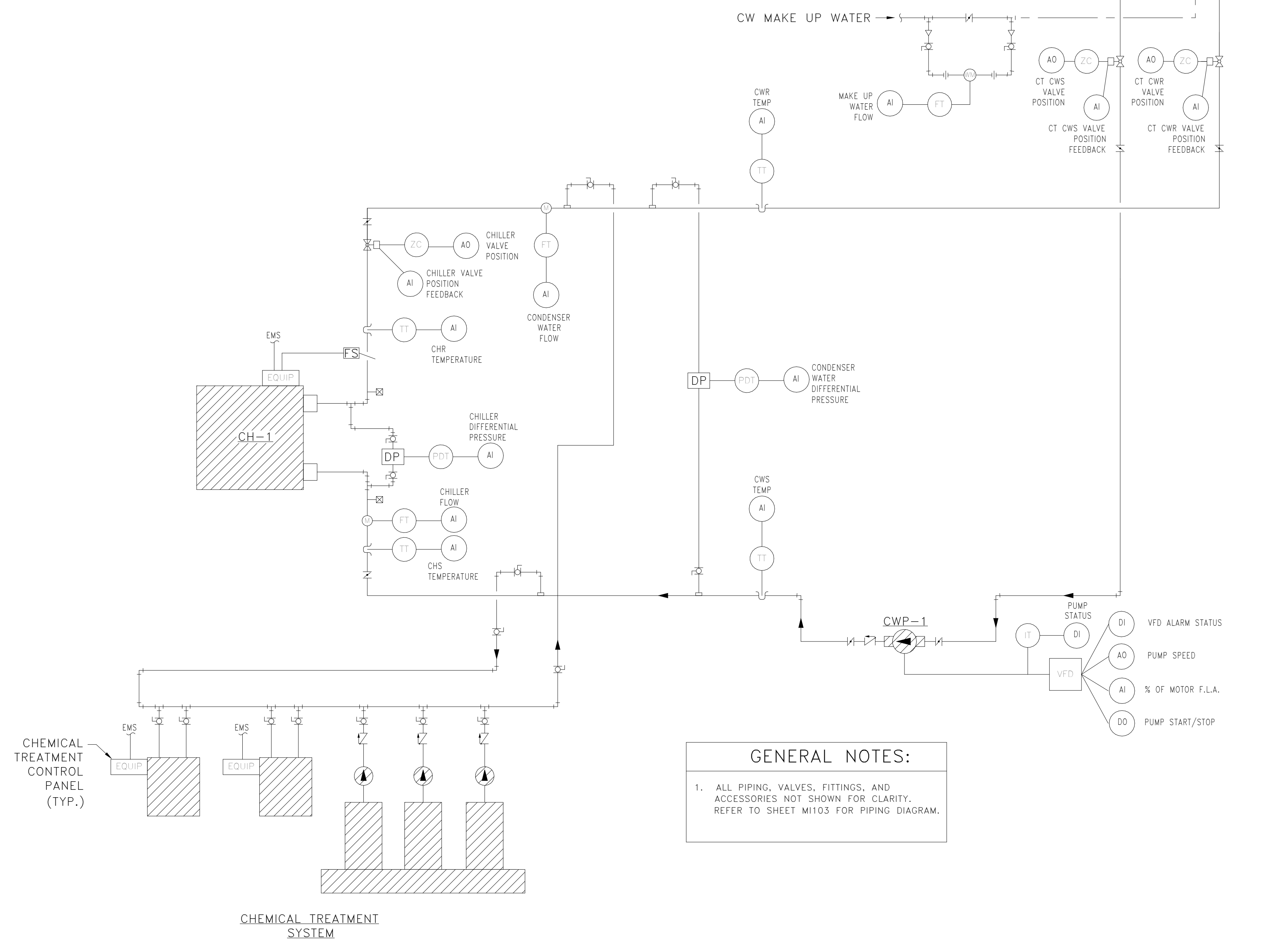
COOLING TOWER
THE COOLING TOWER SHALL BE SEQUENCED TO MAINTAIN CONDENSER WATER SUPPLY TEMPERATURE AT SETPOINT.

WHEN THE COOLING TOWER IS ENABLED THE FOLLOWING SEQUENCE WILL OCCUR:
 1. OPEN CONDENSER WATER SUPPLY VALVE FULLY
 2. OPEN CONDENSER WATER RETURN VALVE FULLY
 3. WHEN THE TOWER WATER SUPPLY TEMPERATURE INCREASES MORE THAN 2 DEGREES (ADJ) ABOVE THE TOWER WATER SUPPLY TEMPERATURE THE TOWER FAN SHALL BE ENABLED. THE SPEED OF THE COOLING TOWER FAN SHALL BE MODULATED AS REQUIRED TO MAINTAIN THE TOWER WATER SETPOINT.
 4. WHEN THE TOWER WATER SUPPLY TEMPERATURE IS MORE THAN 2 DEGREES (ADJ) BELOW THE TOWER WATER SUPPLY TEMPERATURE THE COOLING TOWER FAN SHALL BE DISABLED.

CHANGES IN COOLING TOWER SEQUENCING SHALL NOT OCCUR MORE OFTEN THAN ONCE EVERY 30 MINUTES.

THE TOWER WATER SUPPLY TEMPERATURE SHALL BE RESET BASED ON OUTSIDE AIR WET BULB TEMPERATURE.

CONDENSER WATER PUMP
PUMP SPEED SHALL MODULATE TO MAINTAIN TOWER WATER SETPOINT.



GENERAL NOTES:

1. ALL PIPING, VALVES, FITTINGS, AND ACCESSORIES NOT SHOWN FOR CLARITY. REFER TO SHEET M103 FOR PIPING DIAGRAM.

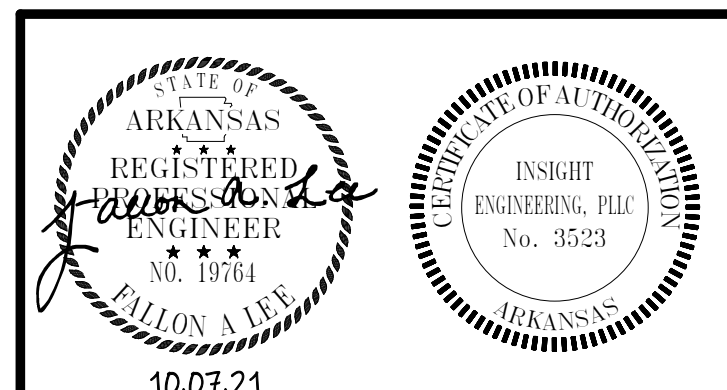
2 TOWER WATER CONTROL DIAGRAM
NOT TO SCALE:

REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: MECHANICAL CONTROLS

SHEET NUMBER: M501

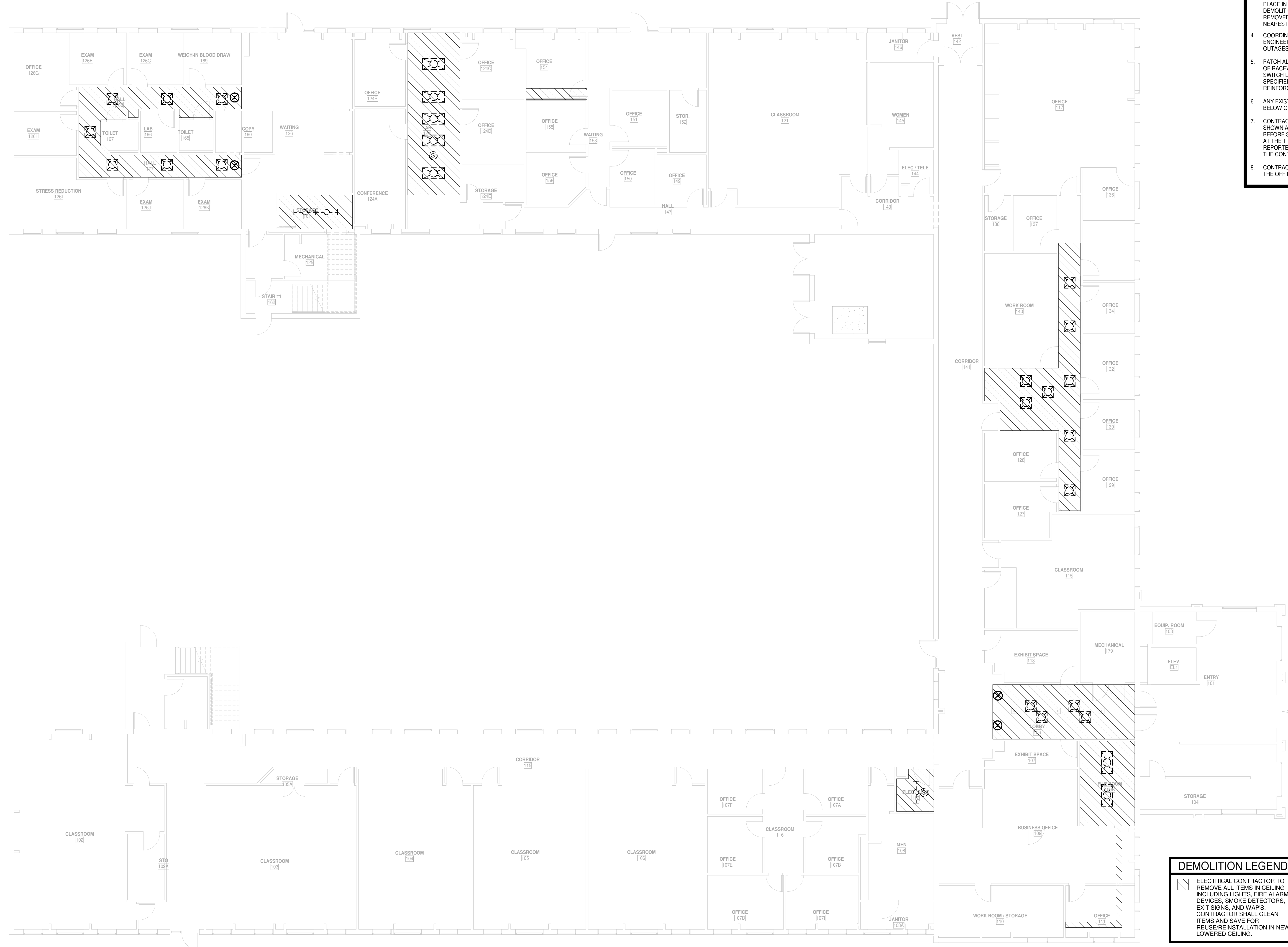


HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR

DEMOLITION GENERAL NOTES

- OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.
- EXCEPT FOR ITEMS OR MATERIALS THAT ARE INDICATED TO BE REUSED, SALVAGED, REINSTALLED OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT DAMAGE TO ADJACENT SURFACES AND AREAS.
- ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND IDENTIFY ALL EXISTING CIRCUITS WITHIN THE TENANT SPACES PRIOR TO DEMOLITION. EXISTING WIRING AND CONDUIT SHALL REMAIN IN PLACE IN AREAS OF THE SPACE THAT ARE NOT PART OF THE DEMOLITION. IF CIRCUITS ARE IN BOTH "TO REMAIN" AND "TO BE REMOVED" AREAS, REMOVE WIRING AND CONDUIT BACK TO NEAREST "TO REMAIN" JUNCTION BOX.
- COORDINATE ALL DEMO ACTIVITIES WITH OWNER AND ENGINEER, PROVIDE 10 DAYS NOTICE FOR ANY POWER OUTAGES.
- PATCH ALL WALLS REQUIRED TO BE MODIFIED BY DEMOLITION OF RACEWAYS. REMOVE ALL BACK BOXES FOR ABANDONED SWITCH LOCATIONS AND PATCH WALLS TO MATCH FINISH AS SPECIFIED BY ARCHITECT. REINSTALL LOCAL SOUND REINFORCING WHERE POSSIBLE.
- ANY EXISTING CONDUIT NOT BEING REUSED THAT IS ROUTED BELOW GRADE SHALL BE CAPPED AND ABANDONED.
- CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN OR REUSED TO THE OWNER BEFORE STARTING WORK. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT ARE NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
- CONTRACTOR SHALL TURN ALL UNUSED CIRCUIT BREAKERS TO THE OFF POSITION AND LABEL AS SPARE.

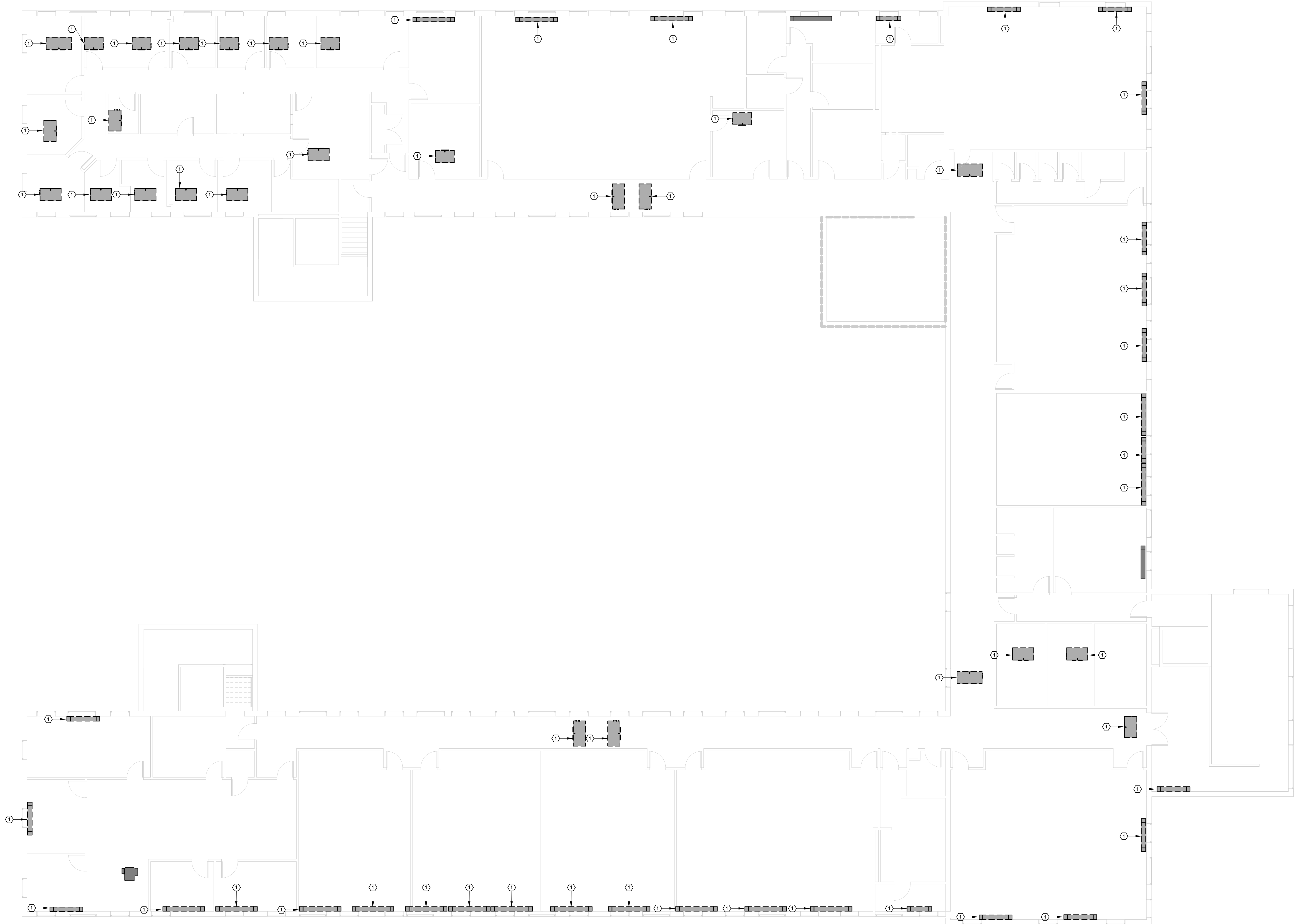


DEMOLITION GENERAL NOTES

1. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.
2. EXCEPT FOR ITEMS OR MATERIALS THAT ARE INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT DAMAGE TO ADJACENT SURFACES AND AREAS.
3. ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND IDENTIFY ALL EXISTING CIRCUITS WITHIN THE TENANT SPACES PRIOR TO DEMOLITION. EXISTING WIRING AND CONDUIT SHALL REMAIN IN PLACE IN AREAS OF THE SPACE THAT ARE NOT PART OF THE DEMOLITION. IF CIRCUITS ARE IN BOTH "TO REMAIN" AND "TO BE REMOVED" AREAS, REMOVE WIRING AND CONDUIT BACK TO NEAREST "TO REMAIN" JUNCTION BOX.
4. COORDINATE ALL DEMO ACTIVITIES WITH OWNER AND ENGINEER. PROVIDE 10 DAYS NOTICE FOR ANY POWER OUTAGES.
5. PATCH ALL WALLS REQUIRED TO BE MODIFIED BY DEMOLITION OF RACEWAYS. REMOVE ALL BACK BOXES FOR ABANDONED SWITCH LOCATIONS AND PATCH WALLS TO MATCH FINISH AS SPECIFIED BY ARCHITECT. REINSTALL LOCAL SOUND REINFORCING WHERE POSSIBLE.
6. ANY EXISTING CONDUIT NOT BEING REUSED THAT IS ROUTED BELOW GRADE SHALL BE CAPPED AND ABANDONED.
7. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN OR REUSED TO THE OWNER BEFORE STARTING WORK. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT ARE NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
8. CONTRACTOR SHALL TURN ALL UNUSED CIRCUIT BREAKERS TO THE OFF POSITION AND LABEL AS SPARE.

DEMOLITION KEYED NOTES

- ① DEMOLISH EXISTING FAN COIL UNIT. EXISTING FAN COIL UNIT FEEDERS AND CONDUIT SHALL REMAIN FOR REUSE. TURN ALL PANELBOARD BREAKERS TO THE OFF POSITION. OWNER SHALL RESERVE THE RIGHT OF REFUSAL FOR ALL EQUIPMENT. COORDINATE WITH OWNER PRIOR TO DEMOLITION. RE-MECHANICAL PLANS.



① SECOND LEVEL FLOOR PLAN - MECHANICAL POWER DEMOLITION
1/8" = 1'-0"

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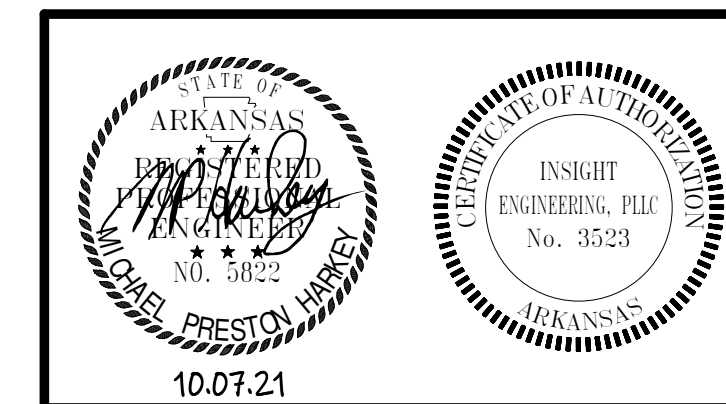
NO.	DESCRIPTION

ISSUE DATE: 10.07.21

SHEET TITLE:
SECOND LEVEL FLOOR PLAN -
MECHANICAL POWER DEMOLITION

SHEET NUMBER:

E104



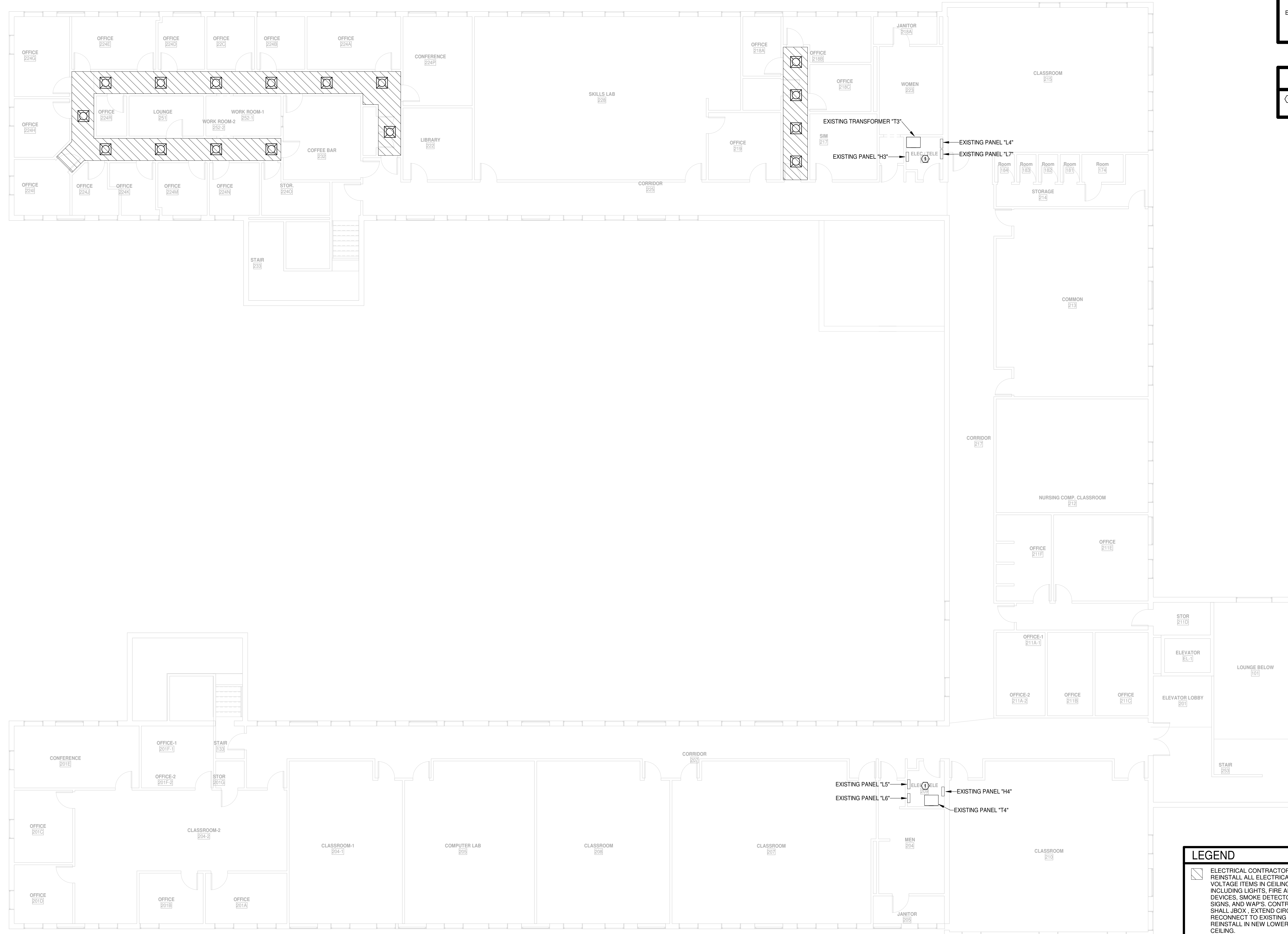
10.07.21

GENERAL NOTES

- A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- B. ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.
- C. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.
- D. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MAJOR MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26, UNLESS NOTED OTHERWISE.
- E. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

- ① SEE PANEL SCHEDULES FOR NEW BREAKERS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.



LEGEND

- ELECTRICAL CONTRACTOR TO REINSTALL ALL ELECTRICAL AND LOW VOLTAGE ITEMS IN CEILING INCLUDING LIGHTS, FIRE ALARM DEVICES, SMOKE DETECTORS, EXIT SIGNS, AND WAP'S. CONTRACTOR SHALL J-BOX, EXTEND CIRCUITS, AND RECONNECT TO EXISTING CIRCUIT TO REINSTALL IN NEW LOWERED CEILING.

① SECOND LEVEL FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

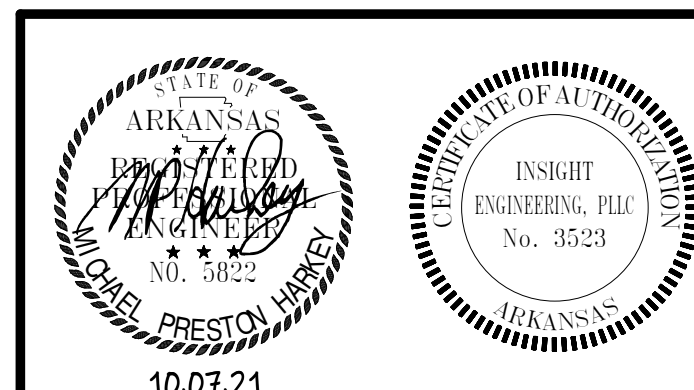
REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE:
SECOND FLOOR PLAN - ELECTRICAL

SHEET NUMBER:

E203



10.07.21

GENERAL NOTES

- A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TELEPHONE, DATA, CATV, SECURITY, AND CAMERA OUTLETS. REFER TO DIVISION 26 SPECIFICATIONS AND TECHNOLOGY DRAWINGS FOR ALL WORK REQUIRED.
- B. ALL RECEPTACLES MOUNTED ABOVE COUNTERTOPS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.
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- E. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

- ① RECONNECT NEW FAN COIL UNIT TO EXISTING CIRCUIT. SPLICE AND EXTEND AS NECESSARY. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. RE: MECHANICAL PLANS.



① SECOND LEVEL FLOOR PLAN - MECHANICAL POWER
1/8" = 1'-0"

REVISIONS:

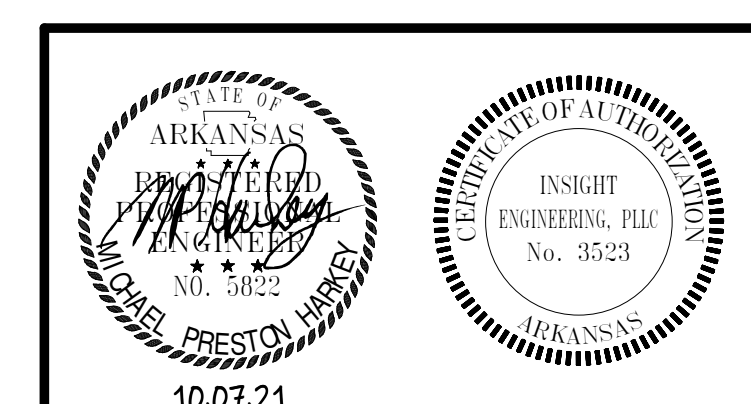
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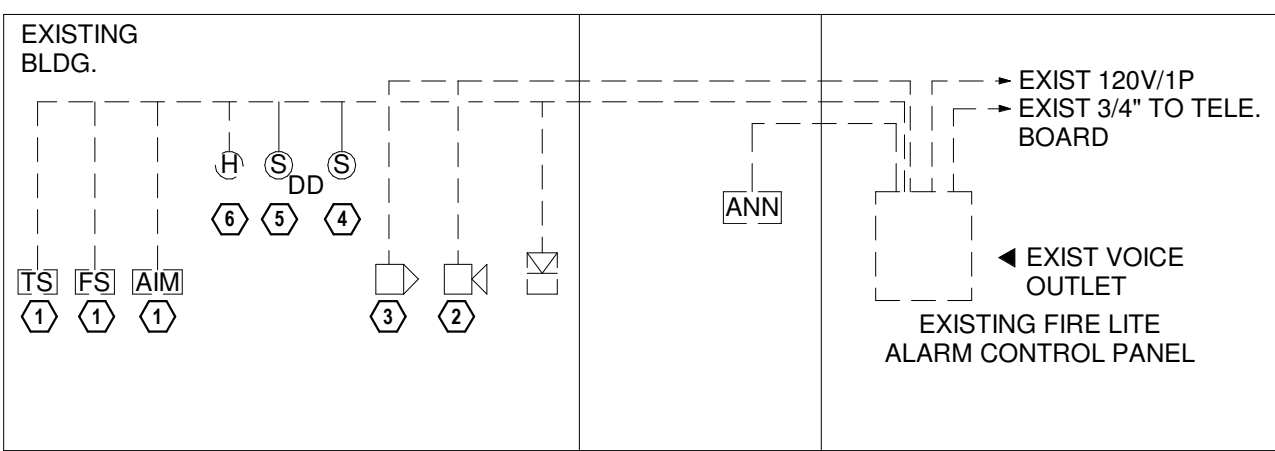
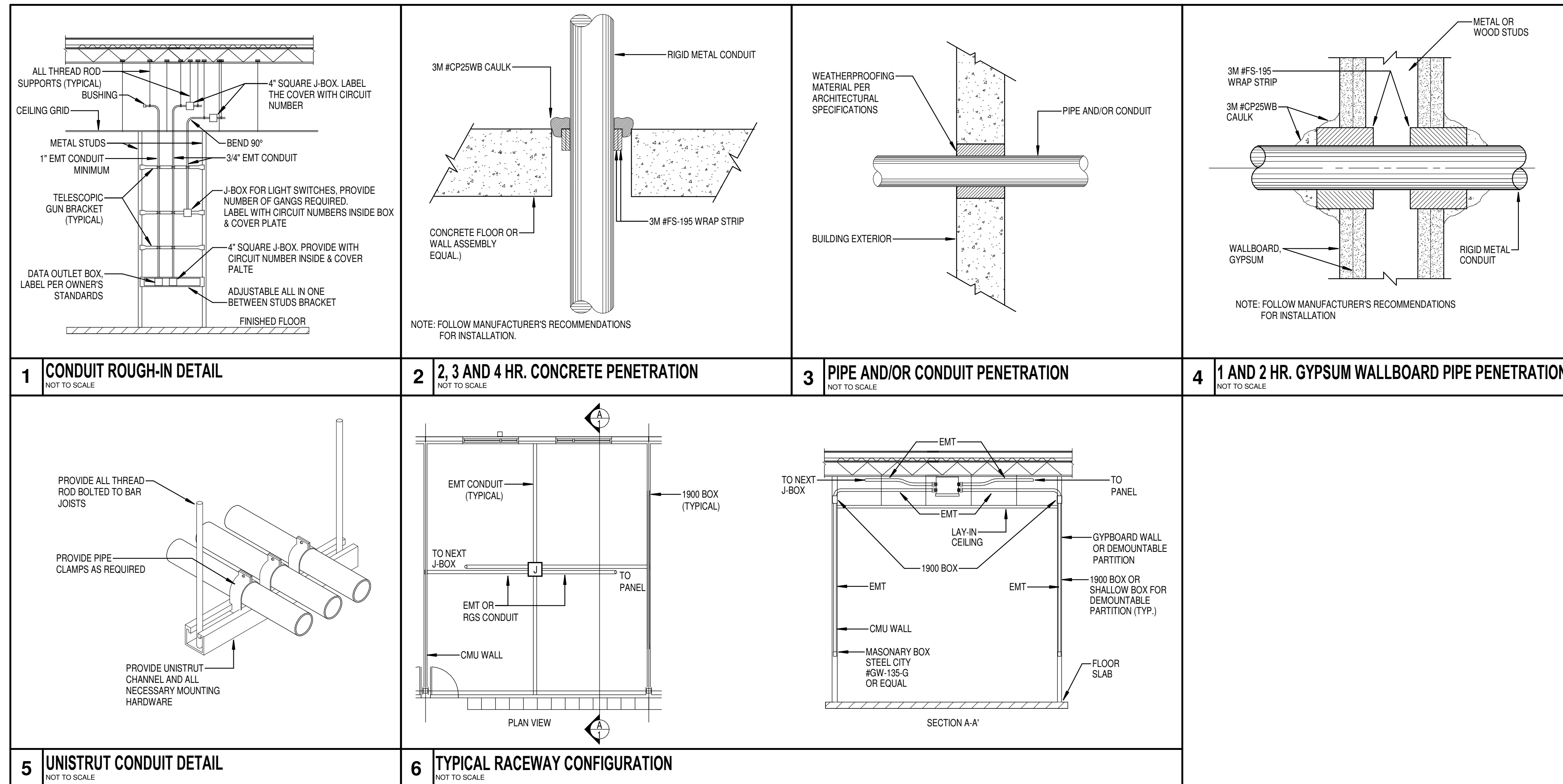
ISSUE DATE: 10.07.21

SHEET TITLE:
SECOND LEVEL FLOOR PLAN -
MECHANICAL POWER

SHEET NUMBER:

E204





FIRE ALARM GENERAL NOTES:

1. PROVIDE PLASTIC BUSHING ON EACH CONDUIT TERMINATION STUB UP.
2. ALL CABLES SHALL BE PLENUM RATED.
3. PROVIDE DEDICATED SYSTEM SLEEVES WITHIN EACH WALL AS REQUIRED.
4. FIRE ALARM WIRING SHALL BE PER THE FIRE ALARM SYSTEM MANUFACTURERS RECOMMENDATIONS.
5. ALL FIRE ALARM CIRCUITRY SHALL BE IN MINIMUM 3/4" C.
6. ALL FIRE ALARM JUNCTION BOXES TO BE PAINTED RED.
7. PROVIDE AND INSTALL NEW DEVICES TO MATCH EXISTING FIRE LITE SYSTEM.
8. CONTRACTOR TO EXTEND AND RECONNECT ALL FIRE ALARM DEVICES REQUIRED TO BE MOVED FOR LOWERED CEILINGS.

FIRE ALARM KEYED NOTES:

- ① TYPICAL FIRE ALARM PULL STATION
- ② TYPICAL FIRE ALARM HORN/STROBE (CANDELA AS INDICATED ON SYSTEMS PLANS)
- ③ TYPICAL FIRE ALARM STROBE (CANDELA AS INDICATED ON SYSTEMS PLANS)
- ④ TYPICAL FIRE ALARM SMOKE DETECTOR
- ⑤ TYPICAL FIRE ALARM DUCT DETECTOR
- ⑥ TYPICAL FIRE ALARM HEAT DETECTOR
- ⑦ TYPICAL FLOW SWITCH
- ⑧ TYPICAL TAMPER SWITCH
- ⑨ TYPICAL ADDRESSABLE INPUT MODULE
- ⑩ TYPICAL ADDRESSABLE CONTROL RELAY

7 FIRE ALARM RISER
12" = 1'-0"

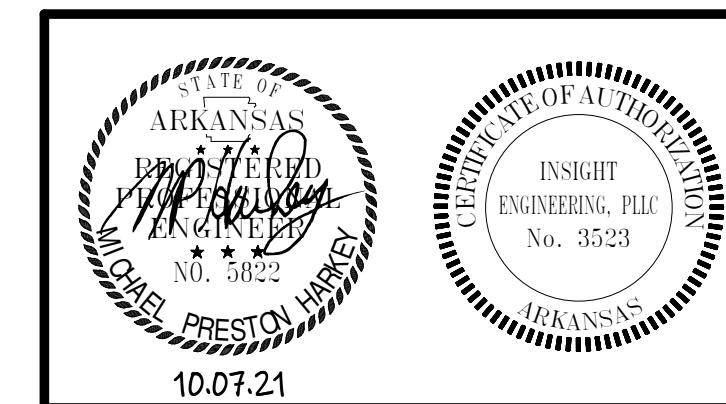
REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE:
ELECTRICAL DIAGRAMS AND
DETAILS

SHEET NUMBER:

E301

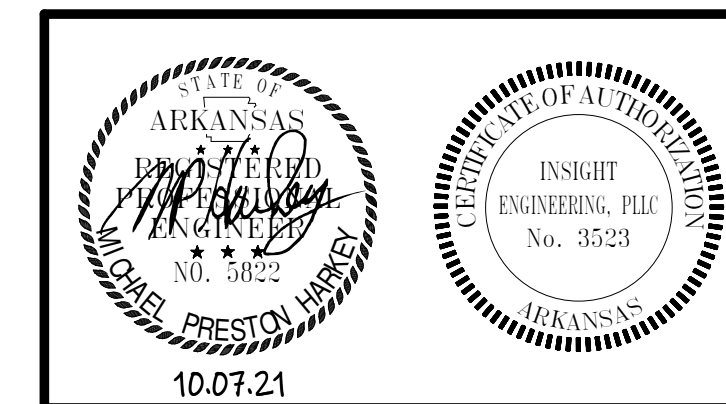


REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: ELECTRICAL SCHEDULES

SHEET NUMBER: E401



Branch Panel: HM

Panel Location: MECH 1
Supply From: Mounting: Surface Enclosure: 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14kA
Bus Rating: 600 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T
1	COOLING TOWER BASIN HEATER	20	3	2000	0		3	20	EXISTING BREAKER	2
3	--	--	--		2000	0				4
5	--	--	--			2000	0			6
7	VFD - COOLING TOWER - NEW BREAKER	60	3	5817	0		3	20	EXISTING BREAKER	8
9	--	--	--		5817	0				10
11	--	--	--			5817	0			12
13	VFD - CWP-1 - NEW BREAKER	30	3	3047	0		3	20	EXISTING BREAKER	14
15	--	--	--		3047	0				16
17	VFD - HWP-1 - NEW BREAKER	35	3	3878	0		3	30	EXISTING BREAKER	18
19	--	--	--		3878	0				20
21	--	--	--			3878	0			22
23	VFD - CHWP-1 - NEW BREAKER	90	3	9418	57339		3	350	CHILLER - EXISTING BREAKER	26
27	--	--	--		9418	57339				28
29	--	--	--			9418	57339			30
Total Load:				81499 VA	81499 VA	81499 VA				
Total Amps:				294 A	294 A	294 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	221046 VA	100.00%	221046 VA	Total Conn. Load: 244497 VA Total Est. Demand: 244497 VA Total Conn. Current: 294 A Total Est. Demand Current: 294 A
M	23451 VA	100.00%	23451 VA	

Branch Panel: H1

Panel Location: ELEC / TELE 144
Supply From: Mounting: Surface Enclosure: 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14kA
Bus Rating: 400 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T	
1	EXISTING BREAKER	20	1	0	0		1	20	EXISTING BREAKER	2	
3	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	4
5	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	6
7	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	8
9	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	10
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12
13	EXISTING BREAKER	20	1	0	0			2	20	EXISTING BREAKER	14
15	EXISTING BREAKER	20	2		0	0				16	
17	--	--	--			0	2300	3	20	VFD - AHU-1	18
19	--	--	--							20	
21	--	--	--		2300					22	
23	--	--	--			2300				24	
25	--	--	--				155	1	20	AHU-1 UV LIGHT - NEW BREAKER	26
27	--	--	--							28	
29	--	--	--							30	
31	--	--	--							32	
33	--	--	--							34	
35	--	--	--							36	
37	Size 75 Floor Mtd - Insight Dry Type Transformer	20	3	0						38	
39	--	--	--							40	
41	--	--	--							42	
Total Load:				2300 VA	2300 VA	2455 VA					
Total Amps:				8 A	8 A	9 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	155 VA	100.00%	155 VA	Total Conn. Load: 7055 VA Total Est. Demand: 7055 VA Total Conn. Current: 8 A Total Est. Demand Current: 8 A
M	6900 VA	100.00%	6900 VA	

Branch Panel: H2

Panel Location: ELEC / TELE 112
Supply From: Mounting: Surface Enclosure: 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14kA
Bus Rating: 400 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T			
1	EXISTING BREAKER	20	1	0	0		1	20	EXISTING BREAKER	2			
3	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	4		
5	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	6		
7	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	8		
9	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	10		
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12		
13	VFD - AHU-2	20	3	2300	0					14			
15	--	--	--			2300	2200		3	20	VFD - AHU-3	16	
17	--	--	--					2300	2200			18	
19	EXISTING BREAKER	70	3	0	2200					3	100	Spare	20
21	--	--	--			0	0			0	0		22
23	--	--	--				0	0					24
25	AHU-2 UV LIGHT - NEW BREAKER	20	1	155	0					1	20	AHU-3 UV LIGHT - NEW BREAKER	26
27	--	--	--				155						28
29	--	--	--										30
31	--	--	--										32
33	--	--	--										34
35	--	--	--										36
37	--	--	--										38
39	--	--	--										40
41	--	--	--										42
Total Load:				4655 VA	4655 VA	4500 VA							
Total Amps:				17 A	17 A	16 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	310 VA	100.00%	310 VA	Total Conn. Load: 13810 VA Total Est. Demand: 13810 VA Total Conn. Current: 17 A Total Est. Demand Current: 17 A
M	13500 VA	100.00%	13500 VA	

Branch Panel: L2

Panel Location: ELEC / TELE 144
Supply From: Mounting: Surface Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10kA
Bus Rating: 225 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T		
1	EXISTING BREAKER	20	1	0	0		1	20	EXISTING BREAKER	2		
3	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	4	
5	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	6	
7	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	8	
9	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	10	
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12	
13	EXISTING FCU CIRCUIT	20	1	0	0			1	20	EXISTING FCU CIRCUIT	14	
15	EXISTING FCU CIRCUIT	20	1		0	0		1	20	EXISTING FCU CIRCUIT	16	
17	EXISTING FCU CIRCUIT	20	1			0	0	1	20	EXISTING FCU CIRCUIT	18	
19	EXISTING FCU CIRCUIT	20	1	0	0			1	20	EXISTING FCU CIRCUIT	20	
21	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	22	
23	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	24	
25	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	26	
27	EXISTING BREAKER	20	1		0	1500		1	20	BOILER - EXISTING CIRCUIT BREAKER	28	
29	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	30	
31	EXISTING BREAKER	20	1	0	0			3	80	EXISTING BREAKER	32	
33	EXISTING BREAKER	20	1		0	0			--	--	34	
35	EXISTING BREAKER	20	1			0	0		--	--	36	
37	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	38	
39	EXISTING BREAKER	20	2		0	0			1	20	EXISTING BREAKER	40
41	--	--	--						--	--	42	
Total Load:				0 VA	1500 VA	0 VA						
Total Amps:				0 A	13 A	0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1500 VA	100.00%	1500 VA	Total Conn. Load: 1500 VA Total Est. Demand: 1500 VA Total Conn. Current: 4 A Total Est. Demand Current: 4 A

Branch Panel: L3

Panel Location: ELEC / TELE 112
Supply From: Mounting: Surface Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10kA
Bus Rating: 225 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T	
1	EXISTING BREAKER	20	1	0	0		1	20	EXISTING BREAKER	2	
3	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	4
5	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	6
7	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	8
9	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	10
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12
13	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	14
15	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	16
17	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	18
19	EXISTING BREAKER	20	1	0	0			1	20	EXISTING FCU CIRCUIT	20
21	EXISTING FCU CIRCUIT	20	1		0	0		1	20	EXISTING FCU CIRCUIT	22
23	EXISTING FCU CIRCUIT	20	1			0	0	1	20	EXISTING BREAKER	24
25	EXISTING FCU CIRCUIT	20	1	0	0			1	20	EXISTING FCU CIRCUIT	26
27	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	28
29	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	30
31	--	--	--						--	--	32
33	--	--	--						--	--	34
35	--	--	--						--	--	36
37	--	--	--						--	--	38
39	--	--	--						--	--	40
41	--	--	--						--	--	42
Total Load:				0 VA	0 VA	0 VA					
Total Amps:				0 A	0 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	0 VA		0 VA	Total Conn. Load: 0 VA Total Est. Demand: 0 VA Total Conn. Current: 0 A Total Est. Demand Current: 0 A

Branch Panel: L6

Panel Location: ELEC / TELE 209
Supply From: Mounting: Surface Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10kA
Bus Rating: 225 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T	
1	Spare	20	1	0	0		1	20	EXISTING FCU CIRCUIT	2	
3	EXISTING FCU CIRCUIT	20	1		0	0		1	20	EXISTING FCU CIRCUIT	4
5	EXISTING FCU CIRCUIT	20	1			0	0	1	20	EXISTING FCU CIRCUIT	6
7	EXISTING FCU CIRCUIT	20	1	0	0			1	20	EXISTING FCU CIRCUIT	8
9	EXISTING FCU CIRCUIT	20	1		0	0		1	20	EXISTING FCU CIRCUIT	10
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12
13	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	14
15	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	16
17	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	18
19	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	20
21	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	22
23	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	24
25	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	26
27	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	28
29	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	30
31	--	--	--						--	--	32
33	--	--	--						--	--	34
35	--										

Branch Panel: L9

Panel Location: ELEC / TELE 112
Supply From:
Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Bus Rating: 225 A
MCB Rating:

Notes:

CK T	Circuit Description	Trip (A)	Pol es	"A"	"B"	"C"	Pol es	Trip (A)	Circuit Description	CK T	
1	EXISTING BREAKER	20	1	0	0		1	20	EXISTING BREAKER	2	
3	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	4
5	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	6
7	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	8
9	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	10
11	EXISTING BREAKER	20	1			0	0	1	20	EXISTING BREAKER	12
13	EXISTING BREAKER	20	1	0	0			1	20	EXISTING BREAKER	14
15	EXISTING BREAKER	20	1		0	0		1	20	EXISTING BREAKER	16
17	CU-1 - NEW BREAKER	15	2			1040	0	1	20	EXISTING BREAKER	18
19	--	--	--	1040	0			1	20	EXISTING BREAKER	20
21	Spare	20	2		0	200		1	20	EXTERIOR RECEPTACLE - NEW BREAKER	22
23	--	--	--			0					24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
		Total Load:		1040 VA	200 VA	1040 VA					
		Total Amps:		10 A	2 A	10 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	200 VA	100.00%	200 VA	Total Conn. Load: 2280 VA
M	2080 VA	100.00%	2080 VA	
				Total Conn. Current: 7 A
				Total Est. Demand Current: 6 A

HVAC SYSTEM UPGRADES FOR DEAN HALL

402 WEST O STREET
RUSSELLVILLE, AR

REVISIONS:

ISSUE DATE: 10.07.21

SHEET TITLE: ELECTRICAL SCHEDULES

SHEET NUMBER: E402

