

FMTC BUILDING 1021 HVAC RESTORATION

ANNISTON, ALABAMA

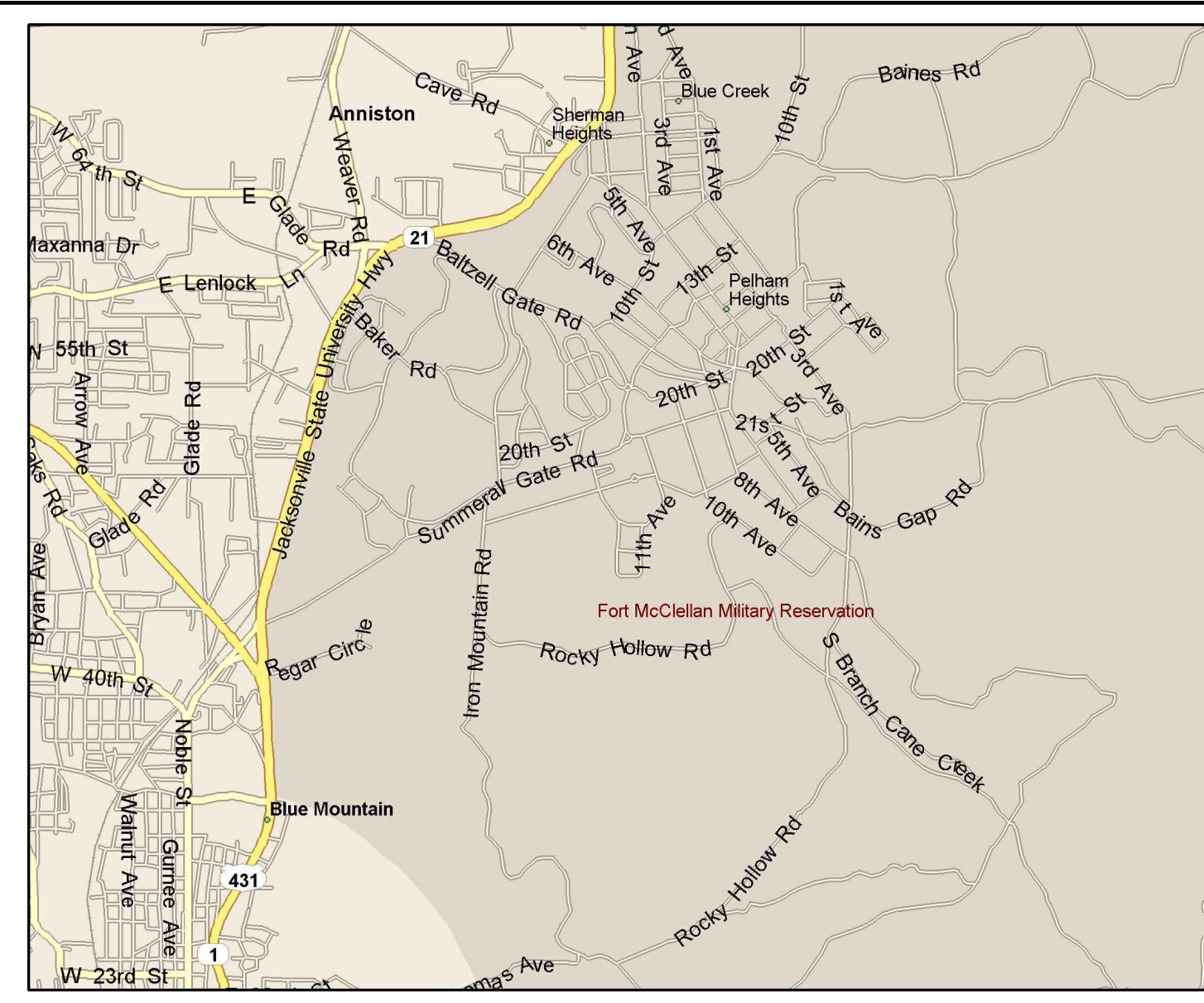
ABBREVIATIONS

VICINITY MAP

GENERAL NOTES

INDEX OF DRAWINGS

A	ABV ANCHOR BOLT AC AIR CONDITIONING ACC ACCESS ACT. ACUSTICAL TILE (CLG) AFF ABOVE FINISH FLOOR A.D. AREA DRAIN ADD ADDENDUM ADH ADHESIVE ADJ ADJUSTABLE AGG AGGREGATE A.H.U. AIR HANDLING UNIT ALT ALTERNATE ALUM ALUMINUM A.P. ACCESS PANEL APX APPROXIMATE ARCH. ARCHITECTURAL ASPH ASPHALT A.T. ASPHALT TILE AUTO. AUTOMATIC AVG AVERAGE AWNG AWNING	F FAS FASTENER F.B.O. FURNISHED BY OTHERS F.D. FIRE EXTINGUISHER F.F. FINISH FLOOR F.G. FIXED GLASS FIBRGLASS FIBERGLASS FIN FINISH FLG FLASHING FLR FLOOR FLUR FLOURESCENT FN FENCE FND FOUNDATION F.O. FACE OF F.P. FIRE PROOF FFHB FIRE PROOF HOSE BIBB FF FIRE PROOF FR FRAME FS FULL SIZE FTG FOOTING FUR FURDURING F.V. FIELD VERIFY	P PAR PARALLEL P.B.D. PARTICLE BOARD P.C.C. PRECAST CONCRETE PED PORCELAIN ENAMEL PED PEDESTAL (SINK) PERI PERIMETER PKG PARKING PL PLATE P.LAM. PLASTIC LAMINATE PLAS PLASTER PLAS PLUS PNL PANEL PNT PAINT P. TILE PORCELAIN TILE PR PAIR PRFAB PREFABRICATED PSI POUNDS PER SQUARE FOOT PTN PARTITION P.T. PRESSURE TREATED P.V. PAVED OR PAVING PVC POLYVINYL CHLORIDE (PIPE) PVM PAVEMENT PWD PLYWOOD Q.T. QUARRY TILE	R R RISER RA RETURN AIR RB RUBBER BASE RAD RADIUS RBL RUBBLE R.D. ROOF DRAIN REF REFRIGERATOR REQ REQUIRED RES RESILIENT REV REVISION REVISED RENF REINFORCING R.F. ROOFING R.J.B. REINFORCED JUNCTION BOX RLG RAILING R.M. RANGE W/ MICROWAVE R.W.L. ROOF WATER LEADER R.O. ROUGH OPENING R.O.W. RIGHT OF WAY R&S ROD AND SHELF(S)	S S SOLID CORE SCH SCHEDULE SD SMOKE DETECTOR SEC SECTION S.F. SQUARE FEET S.G.L. SET GL S.G.D. SLIDING GLASS DOOR SH SINGLE HUNG OR SHELF SHT (DRAWING) SHEET SH SHEATHING SMI SMILAR SKL SKYLIGHT SL SIDELIGHT OR SLEEVE SNT SEALANT SPC SPACER SPEC SPECIFICATIONS SPK SPEAKER SST STAINLESS STEEL STD STANDARD STOR STORAGE STR STRUCTURAL SQ SQUARE SUS SUSPENDED S.W. SHEAR WALL T TREAD T.B. TOWEL BAR T.B.D. TO BE DETERMINED T.C. TERRA COTTA T.C.J. TROWELED CONTROL JOINT T.G. TEMPERED (GLASS) T&G TONGUE & GROOVE TEL TELEPHONE THK THICKNESS THR THRESHOLD T.C. TOP OF CONCRETE T.O.F. TOP OF FOUNDATION T.O.M. TOP OF MASONRY T.O.W. TOP OF WINDOW TR TRANSOM TP TOLET PAPER HOLDER TV TELEVISION OUTLET TYP TYPICAL	U UNC UNDERCUT UNF UNFINISHED UNLESS NOTED OTHERWISE	V V.V. VANITY BASE V.B. VAPOR BARRIER V.B. VANITY BASE WIDTH V.V. VERTICAL V.V. VINYL(SHEET) V.S. VEGETABLE SINK V.C.T. VINYL COMPOSITION TILE	W W WIDE OR WASHING MACHINE WC WATER CLOSET WF WIDE FLANGE WH WATER HEATER W.H. WALK HUNG WI WROUGHT IRON WC WALK-IN CLOSET WN WINDOW WI/WO WITH OR WITHOUT WR WATER RESISTANT W.S. WATER SOFTENER W.SCT WAINSCOT W.T.W. WALL TO WALL W.W. WELDED WIRE MESH
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PROJECT INFORMATION		
OWNER:	ARMORY COMMISSION OF ALABAMA	FACILITY: 110 Patriot Road
	ALABAMA NATIONAL GUARD	ADDRESS: Ft. McClellan, Alabama
	MONTGOMERY, ALABAMA	36205
	P.O. C. COL MIKE WEBB	

DESIGN TEAM CONTACTS		
ARCHITECT:	JMR+H ARCHITECTS, P.C. 60 COMMERCE STREET SUITE 1520 MONTGOMERY, AL 36104 T: (334) 420-5672 F: (334) 420-5692 CONTACT: MIKE RUTLAND, AIA	
PLUMBING & MECHANICAL:	WHORTON ENGINEERING, INC. 25 SUMMERALL GATE ROAD BLDG. 2102 ANNISTON, ALABAMA 36205 P: (256) 820-9897 F: (256) 820-9896 CONTACT: HEATHER PAGE, P.E.	
ELECTRICAL:	MCCARTER ENGINEERING 878 AVALON LANE ANNISTON, ALABAMA 36207 P: (256) 240-7335 F: (256) 240-7336 CONTACT: STAN MCCARTER, P.E.	

ARCHITECTURAL SYMBOLS		
	DOOR MARK	
	WINDOW MARK	DETAIL
	ROOM FINISH MARK	DWG. NO.
	REVISION MARK	
	BRACKET MOUNTED FIRE EXTINGUISHER	ELEV. NO.
	FIRE EXTINGUISHER CABINET	DWG. NO.
	LARGE SCALE PLAN OR DETAIL ENLARGEMENT	SECT. NO.
	FINISH FLOOR ELEVATION	DWG. NO.
	FINISH GRADE ELEVATION	BEARING ELEVATION

GENERAL NOTES	
1. DRAWINGS AND SPECIFICATIONS OF ALL DISCIPLINES INCLUDED HEREIN ARE GRAPHIC AND TEXT REPRESENTATIONS INTENDED TO ESTABLISH THE FULL SCOPE OF THIS PROJECT AND THE FULL CONTRACTUAL OBLIGATION OF THE GENERAL CONTRACTOR TO COMPLETE THE WORK SHOWN, IMPLIED, AND SPECIFIED. IT SHALL BE THE GENERAL CONTRACTOR'S ULTIMATE RESPONSIBILITY TO COORDINATE THE PROPOSALS AND WORK OF ALL TRADES TO ENSURE ALL MATERIALS AND WORK REQUIRED BY THE CONTRACT DOCUMENTS ARE INCLUDED IN THE GENERAL CONTRACTOR'S PROPOSAL AND ARE ULTIMATELY FURNISHED AND INSTALLED IN THE FINISHED PRODUCT, WHETHER EXPLICIT OR IMPLIED BY THESE DOCUMENTS.	
2. THE FOLLOWING PRIORITIES ARE ESTABLISHED WITH REFERENCE TO DISCIPLINE COORDINATION A. ALL PLUMBING WORK AND INSTALLATION SHALL BE COORDINATED FULLY TO ALLEVIATE CONFLICTS. B. NO TRADE WILL TAKE UNNECESSARY ADVANTAGE OF AVAILABLE PLENUM SPACE OVER OTHER TRADES. RELOCATION OF ANY ITEMS VIOLATING THIS PRINCIPLE SHALL BE AT THE TRADES' EXPENSE. C. ALL STRUCTURAL DESIGN & DETAILING SHALL GOVERN OVER ARCHITECTURAL GRAPHIC REPRESENTATION WHERE APPLICABLE. D. ALL CIVIL DESIGN & DETAILING SHALL GOVERN OVER ARCHITECTURAL REPRESENTATION WHERE APPLICABLE.	
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CONSTRUCTION ON THIS SITE. IF PROBLEMS ARE ENCOUNTERED WHILE ATTEMPTING TO OBTAIN PERMITS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND WILL ASSIST AS NECESSARY.	
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE CONTRACT DOCUMENTS APPLICABLE TO THIS PROJECT PRIOR TO CONSTRUCTION. THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY AND BOTH DOCUMENTS SHALL BE BINDING.	
5. THE CONTRACTOR IS TO MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS AT THE JOB SITE. AS BUILTS SHALL BE AVAILABLE FOR FIELD OBSERVATION BY THE ARCHITECT OR ENGINEER.	
6. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS, PROCEDURES, OR METHODS OF CONSTRUCTION. IT IS INTENDED THAT A COMPLETE BUILDING BE PROVIDED WITH ALL NECESSARY EQUIPMENT APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE BUILDING IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.	
7. COORDINATE PIPING WITH STRUCTURAL AND PLUMBING. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.	
8. COORDINATE ALL REVIEWS OF WORK IN PLACE PRIOR TO CONCEALMENT OF ALL INTERIOR AND EXTERIOR WORK.	
9. CONTRACTOR SHALL CHECK AND COORDINATE ALL DIMENSIONS PRIOR TO PROJECT LAYOUT. CONFIRM EXISTING CONDITIONS WILL ACCOMMODATE DIMENSIONAL CRITERIA SHOWN FOR NEW WORK, CONSTRUCTION, AND INSTALLATION. THIS CONFIRMATION WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.	

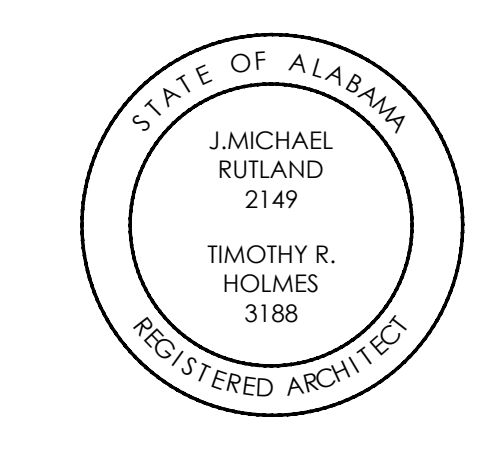
INDEX OF DRAWINGS		
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6	BI/A/P.1	PLUMBING SITE PLAN
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22	BI/A/E.1	SYMBOLS, NOTES, AND DEMOLITION PLANS
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29	BI/B/E.3.1	SECOND FLOOR, THIRD FLOOR, AND PENTHOUSE LIGHTING PLANS

CONSTRUCTION DOCUMENTS

Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

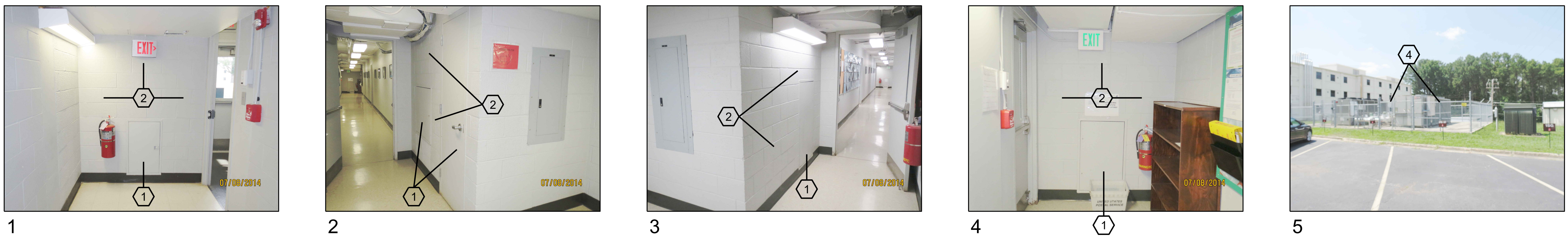
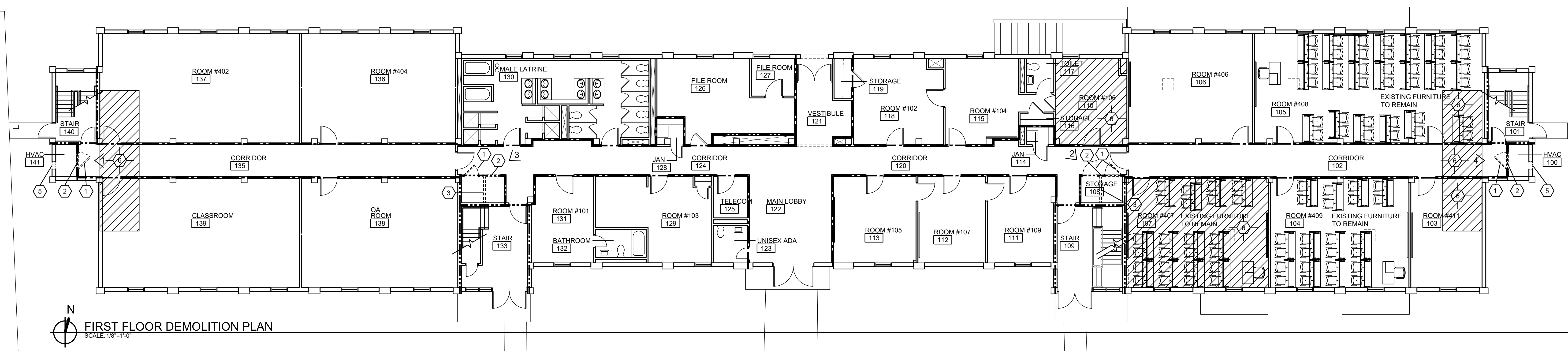
COVER, INDEX, LEGENDS, & NOTES

Sheet Description
Sheet Number
T1.1



**FMTC BUILDING
1021 HVAC
RESTORATION**

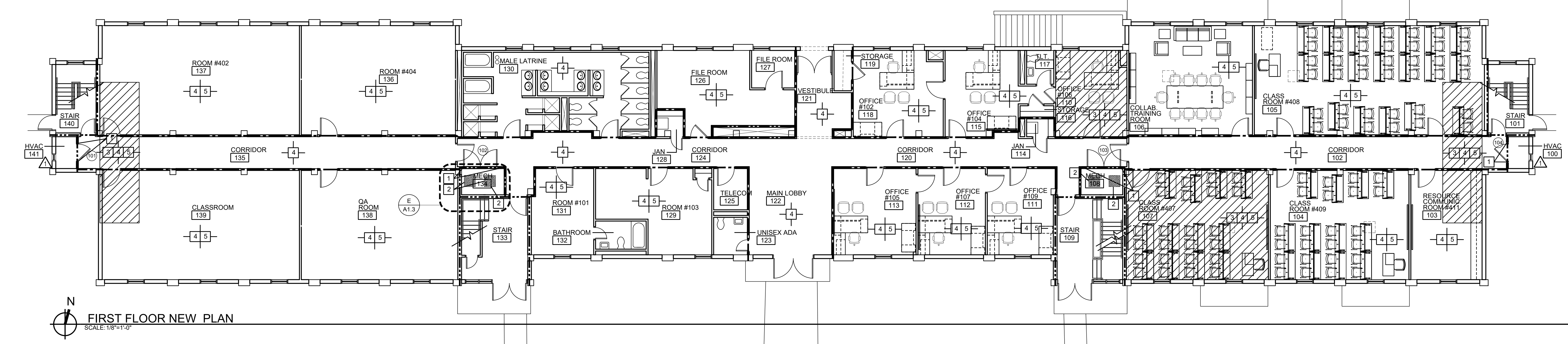
ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



KEY

INDICATES APPROXIMATE ZONE WHERE REMOVAL OF CEILING TILE, SECONDARY CEILING GRID, HVAC CEILING GRILLES & REGISTERS, SMOKE DETECTORS, ETC. IS REQUIRED FOR THE INSTALLATION OF NEW MECHANICAL SYSTEMS. WILL VERIFY REMOVAL REQUIREMENTS (AREA & QUANTITIES) & WILL COORDINATE FOR THE REMOVAL & REINSTALLATION OF ALL COMPONENTS.

NOTE: CONTRACTOR WILL ACCOMPLISH ALL INSTALLATION WITHOUT THE REMOVAL OF CEILING GRID MAIN TEES IF POSSIBLE. COORDINATE WITH MECHANICAL DRAWINGS. LIGHT FIXTURES TO REMAIN IN PLACE. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT AS REQUIRED.



PLAN LEGEND

205	ROOM FINISH MARK	PLAN OR SECTION ENLARGEMENT	DEMOLITION NOTES	SECTION KEY	1-HOUR RATING
2	WORK NOTE REFERENCE	NEW 3 1/2" METAL STUD PARTITION W/ 5/8" GYP BOARD EACH SIDE FROM FLOOR TO CEILING	DEMOLITION PHOTO REFERENCE	DETAIL KEY	2-HOUR RATING
A-2.1	DETAIL OR ELEVATION NUMBER	NEW DOOR MARK	EXISTING TO REMAIN	CMU WALL	NO WORK THIS AREA
A2.1	SHEET NUMBER		EXISTING TO BE DEMOLISHED	FIRE EXT. CABINET	NEW LOUVER MARK

- WORK NOTES**
- INFILL EXISTING CMU WALL AS REQUIRED FOR INSTALLATION OF NEW HOLLOW METAL FRAME. TOOTH-IN AND STRING JOINT TO MATCH EXISTING. PRIME & PAINT NEW CMU TO MATCH EXISTING
 - FORM AND INFILL HOLES (APPROX. 14"X14") IN EXISTING SLAB WHERE DUCTWORK WAS REMOVED WITH NEW CONCRETE AND REINFORCING AS SHOWN IN DETAIL E/A1.3
 - REMOVE EXISTING LAY-IN CEILING AND GRID AS REQUIRED FOR INSTALLATION OF MECHANICAL DUCTWORK. REINSTALL TILE AND GRID IN ORIGINAL LOCATION AFTER INSTALLATION OF DUCTWORK IS COMPLETE
 - PATCH, REPAIR, AND PAINT EXISTING CMU WALLS WHERE EXISTING CONDUIT IS BEING REMOVED. SEE ELECTRICAL DRAWINGS.
 - PATCH AND REPAIR EXISTING CEILING GRID WHERE DAMAGED AS A RESULT OF DEMOLITION OF EXISTING CONDUIT. RE-INSTALL EXISTING ACOUSTICAL CEILING TILE/REPLACE DAMAGED CEILING TILE AS REQUIRED.
 - UNDER **ALTERNATE A3** - INSTALL NEW HOLLOW METAL DOORS, HOLLOW METAL FRAME, AND NEW HARDWARE. PATCH AND REPAIR ALL TRIM SURROUNDING DOOR FRAME TO MATCH EXISTING. PAINT TRIM, FRAMES, AND DOORS IN COLORS AS DIRECTED BY THE OWNER AND ARCHITECT.

- DEMOLITION NOTES**
- REMOVE AND DISCARD EXISTING ACCESS DOOR, FRAME & ALL ASSOCIATED HARDWARE TO ACCOMMODATE NEW CONSTRUCTION.
 - SAWCUT AND REMOVE PORTION OF EXISTING C.M.U. WALL AS REQUIRED FOR NEW HOLLOW METAL FRAME. RELOCATE/RE-ROUTE EXISTING ELECTRICAL, FIRE PROTECTION, ETC. COMPONENTS AS REQUIRED. PATCH ALL FLOORS AND ADJACENT WALLS TO REMAIN. NEW MASONRY BUILD-UP WILL BE "TOOTH-IN" AT NEW JAMB LOCATIONS.
 - REMOVE EXISTING C.M.U. WALL IN ITS ENTIRETY FROM FLOOR SLAB TO SLAB ABOVE. PATCH & REPAIR ADJACENT WALLS TO REMAIN & FLOOR & SLAB ABOVE.
 - REMOVE PORTION OF CHAIN LINK FENCING AS REQUIRED TO REMOVE EXISTING MECHANICAL UNIT. REINSTALL FENCING IN ORIGINAL LOCATION & CONFIGURATION AFTER INSTALLATION OF NEW MECHANICAL UNIT IS COMPLETE.
 - REMOVE PORTION OF EXISTING EXTERIOR WALL AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW LOUVER. SEE MECH. FOR SIZE OF PENETRATION. PROVIDE STEEL LINTEL AT MASONRY TYPICAL.
 - REMOVE, STORE AND PROTECT EXISTING CEILING TILE AND GRID AS REQUIRED FOR REMOVAL AND REPLACEMENT OF EXISTING MECHANICAL EQUIPMENT IN THIS AREA. RE-INSTALL EXISTING CEILING TILE AND GRID IN AFFECTED AREAS. REPLACE ANY DAMAGED CEILING TILE AND GRID.
 - UNDER **ALTERNATE A3** - REMOVE EXISTING HOLLOW METAL DOORS, HOLLOW METAL FRAMES, AND HARDWARE. PREP OPENING TO RECEIVE NEW DOORS, FRAME, AND HARDWARE.

- GENERAL NOTES**
- THE GENERAL AND DEMOLITION CONTRACTOR AND ALL SUB-CONTRACTORS SHALL MAKE A DETAILED INVESTIGATION OF THE SITE PRIOR TO STARTING WORK TO ENSURE THAT THE FULL SCOPE FOR THE DEMOLITION IS DOCUMENTED. THE ELEMENTS OUTLINED AND IDENTIFIED ON THE DEMOLITION DRAWINGS (ALL DISCIPLINES) ARE GENERAL IN NATURE & ARE NOT INTENDED TO ESTABLISH OR IMPLY THE COMPLETE DEMOLITION SCOPE. ALL NECESSARY PROCEDURES, TECHNIQUES, MATERIALS AND PRODUCTS TO COMPLETE ALL DEMOLITION REQUIRED TO ACCOMMODATE ALL NEW CONSTRUCTION SHALL BE A PART OF THIS CONTRACT. ALL DEMOLITION BY PLUMBING, MECHANICAL & ELECTRICAL DISCIPLINES SHALL BE INCLUDED IN EACH RESPECTIVE DISCIPLINE'S SCOPE OR AS COORDINATED FOR COMPLETION BY THE DEMOLITION IN THE GENERAL PROJECT SCOPE.
 - GENERAL CONTRACTOR SHALL SALVAGE ALL EXISTING DEMOLISHED MATERIALS, EQUIPMENT, FIXTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DISPOSITIONS OF ALL DEMOLISHED, SALVAGED ITEMS. NO ITEM IS TO REMAIN ON THE SITE. COORDINATE WITH THE OWNER FOR ANY ITEMS WHICH THE OWNER MAY WISH TO SALVAGE. ANY AND ALL DEMOLISHED OR SALVAGED.
 - SEE MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION DRAWINGS, NOTES, ETC. FOR SCOPE OF DEMOLITION IN THESE DISCIPLINES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PATCH AND REPAIR OF ANY FINISHES OR BUILDING COMPONENTS TO INCLUDE OR ASSOCIATED WITH, BUT NOT LIMITED TO FLOORS, WALLS, ROOFS, ETC. DAMAGED BY THE CONTRACTOR OR HIS SUBS DURING THE PROCESS OF THE WORK. DURING THE DETAILED INVESTIGATION DESCRIBED IN DEMOLITION NOTE 1, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BECOME FULLY AWARE OF THE SCOPE OF DEMOLITION AND ITS EFFECT ON BUILDING SYSTEMS TO REMAIN OR BE CONSTRUCTED SO AS TO ANTICIPATE ANY PATCHING OR REPAIR REQUIRED TO COMPLETE THE PROJECT AS OUTLINED IN THE CONSTRUCTION DOCUMENTS.
 - CONTRACTOR SHALL PROTECT EXISTING FLOOR FINISHES, WALLS, DOORS / DOOR FRAMES & HARDWARE, CEILINGS THROUGH OUT BUILDING. AREAS OF ACCESS AND AREAS OF WORK. CONTRACTOR SHALL REPAIR / PATCH DAMAGED ITEMS / AREAS AS REQUIRED TO ACHIEVE LIKE NEW CONDITIONS / FINISH. CONTRACTOR SHALL PHOTO DOCUMENT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
 - ALL FURNITURE INDICATED ON THESE PLANS IS EXISTING FURNITURE TO REMAIN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEMPORARILY RE-LOCATE EXISTING FURNITURE WITHIN AREAS OF WORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CONTRACTOR SHALL DOCUMENT EXISTING FURNITURE LAYOUT, PROTECT FURNITURE, AND RE-INSTALL FURNITURE IN ITS ORIGINAL LOCATION.

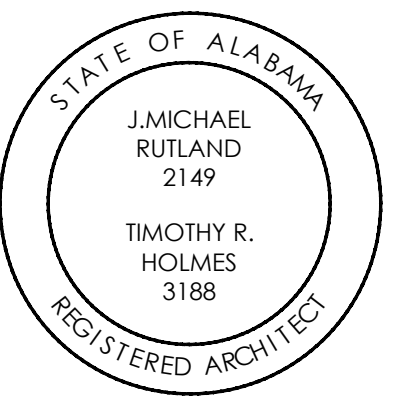
CONSTRUCTION DOCUMENTS

Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

FIRST FLOOR DEMO. & NEW FLOOR PLANS, NOTES

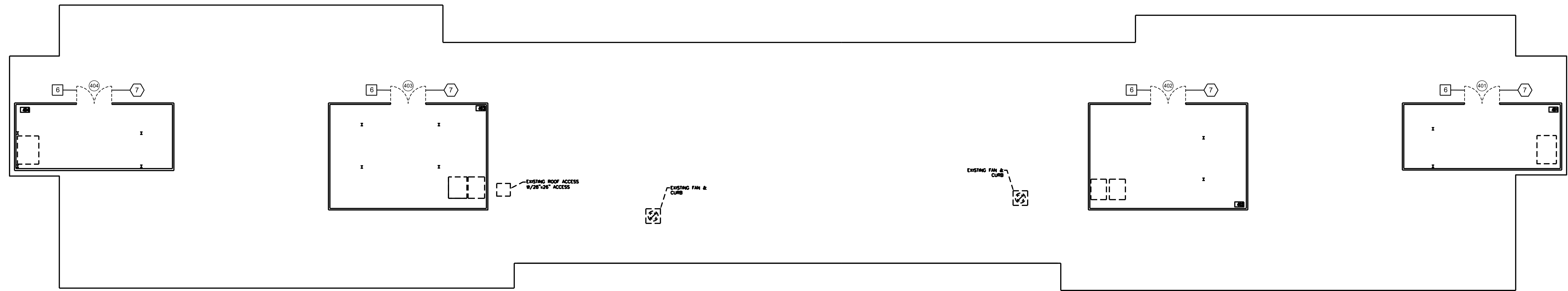
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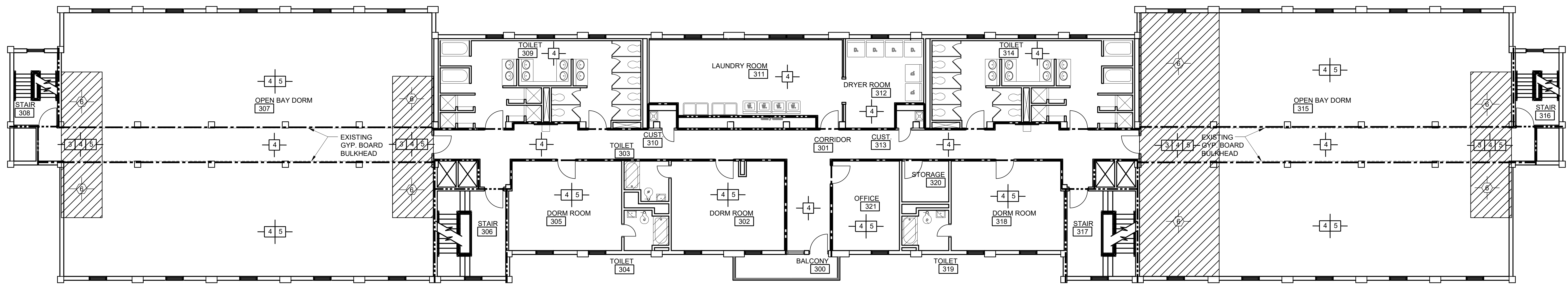


**FMTC BUILDING
1021 HVAC
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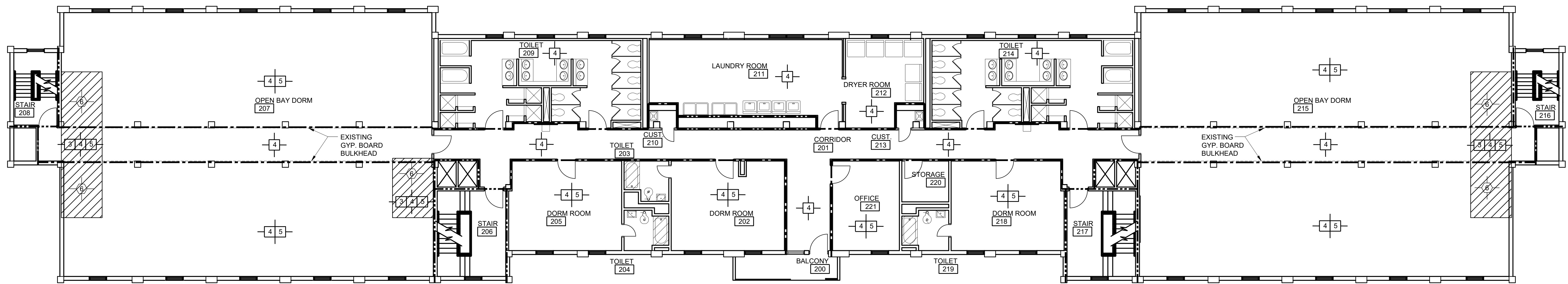
ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



ROOF / PENTHOUSE LEVEL PLAN
SCALE: 1/8"=1'-0"
NOTE: REFER TO DRAWING A1.1 FOR ALL GENERAL, DEMOLITION, AND WORK NOTES.



THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"
NOTE: REFER TO DRAWING A1.1 FOR ALL GENERAL, DEMOLITION, AND WORK NOTES.



SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"
NOTE: REFER TO DRAWING A1.1 FOR ALL GENERAL, DEMOLITION, AND WORK NOTES.

PLAN LEGEND			
205	ROOM FINISH MARK	2	DEMOLITION NOTES
2	WORK NOTE REFERENCE	2	DEMOLITION PHOTO REFERENCE
A2.1	DETAIL OR ELEVATION NUMBER	---	EXISTING TO REMAIN
101	SHEET NUMBER	- - - - -	EXISTING TO BE DEMOLISHED
A2.1	PLAN OR SECTION ENLARGEMENT	A2.1	SECTION KEY
NEW 3/8" METAL STUD PARTITION W/ 5/8" GYP BOARD EACH SIDE FROM FLOOR TO CEILING		A	DETAIL KEY
(10)	NEW DOOR MARK	[]	CMU WALL
		[]	FIRE EXT. CABINET
		[]	1-HOUR RATING
		[]	2-HOUR RATING
		[]	NO WORK THIS AREA
		[]	NEW LOUVER MARK

KEY

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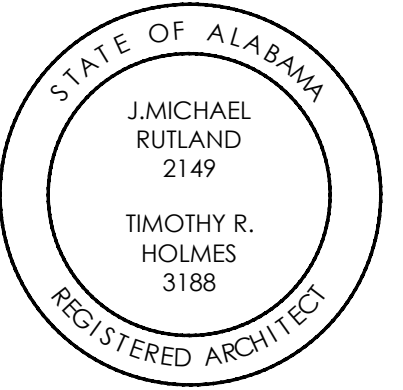
CONSTRUCTION DOCUMENTS

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Sheet Description
SECOND & THIRD FLOOR PLANS, ROOF / PENTHOUSE LEVEL PLAN

Sheet Number

BI.A/A1.2



**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
DOCUMENTS**

Project Number: 23-1337
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Revisions:

Sheet Description

**DOOR
SCHEDULE &
DETAILS**

Sheet Number

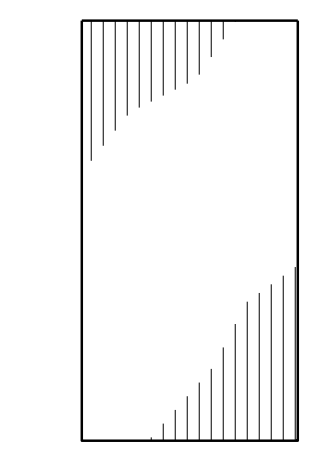
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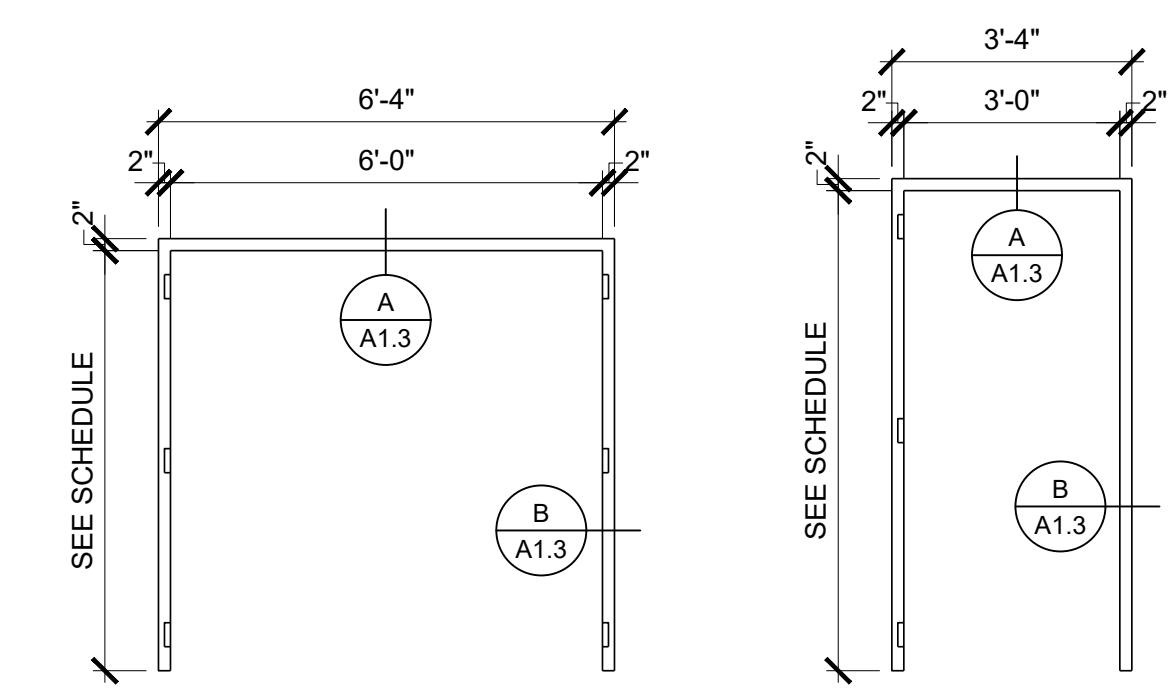
DOOR SCHEDULE							
NO.	TYPE	SIZE	FRAME TYPE	HDW SET	LABEL	GLASS TYPE	REMARKS
FIRST FLOOR							
101	A	4'-0"x5'-10"x1 1/2"	2	1	20 MIN	----	1
102	A	PR. 3'-0"x6'-0"x1 3/4"	1	2	20 MIN	----	1
103	A	PR. 3'-0"x6'-0"x1 3/4"	1	2	20 MIN	----	1
104	A	4'-0"x5'-10"x1 1/2"	2	1	20 MIN	----	1
ROOF / PENTHOUSE LEVEL							
401	A	PR. 3'-0"x6'-0"x1 3/4"	1	3	----	----	2
402	A	PR. 3'-0"x6'-0"x1 3/4"	1	3	----	----	2
403	A	PR. 3'-0"x6'-0"x1 3/4"	1	3	----	----	2
404	A	PR. 3'-0"x6'-0"x1 3/4"	1	3	----	----	2

- DOOR SCHEDULE REMARKS:
- COORDINATE FINAL LOCATION OF DOOR WITH MECHANICAL CONTRACTOR, FT. MCCLELLAN DPW, AND OWNERS REPRESENTATIVE.
 - REMOVE AND REPLACE EXISTING DOORS, FRAMES, & HARDWARE UNDER **OLD ALTERNATE - A3**.



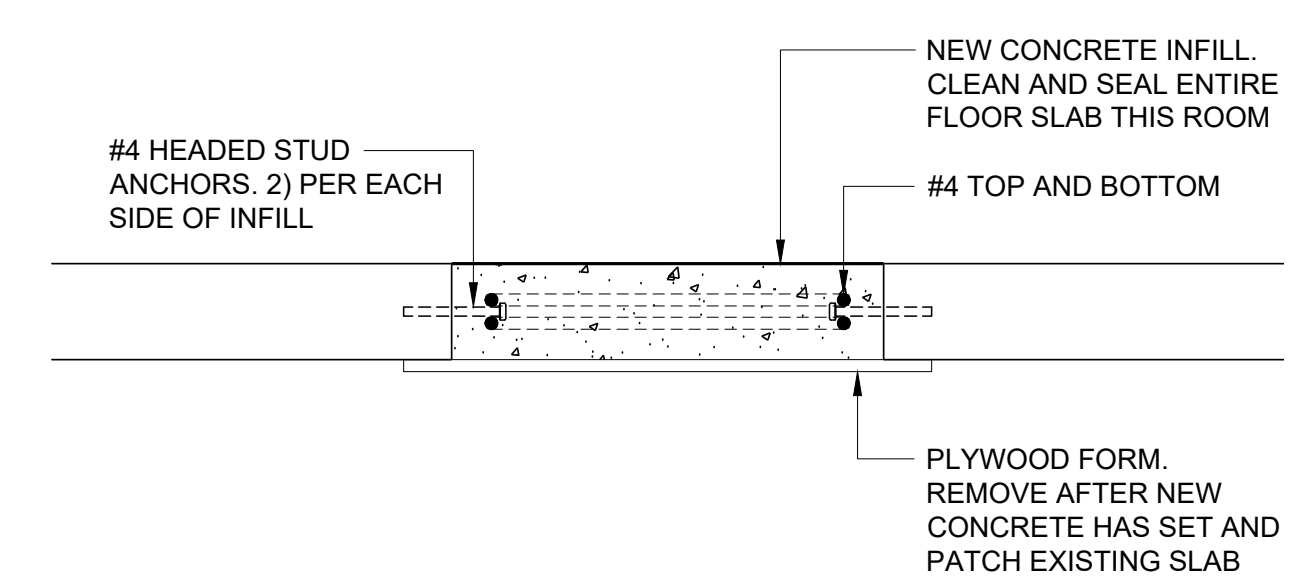
A FLUSH PANEL HOLLOW METAL DOOR

DOOR TYPES
SCALE: 3/8"=1'-0"

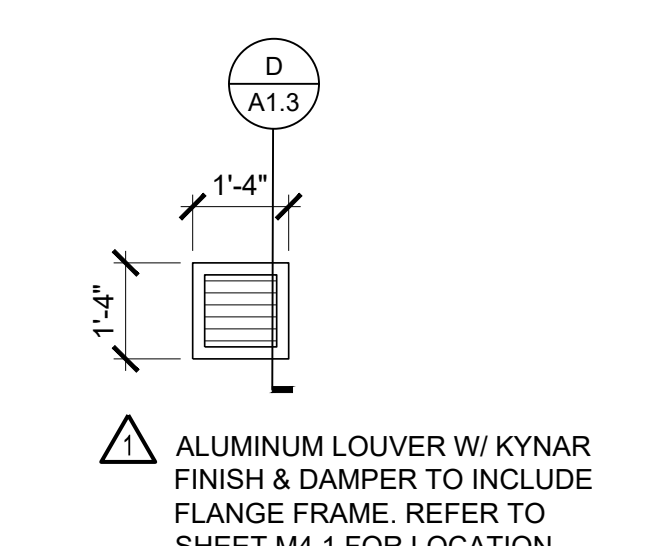


1 DOUBLE LEAF HOLLOW METAL FRAME - PAINTED
2 SINGLE LEAF HOLLOW METAL - PAINTED

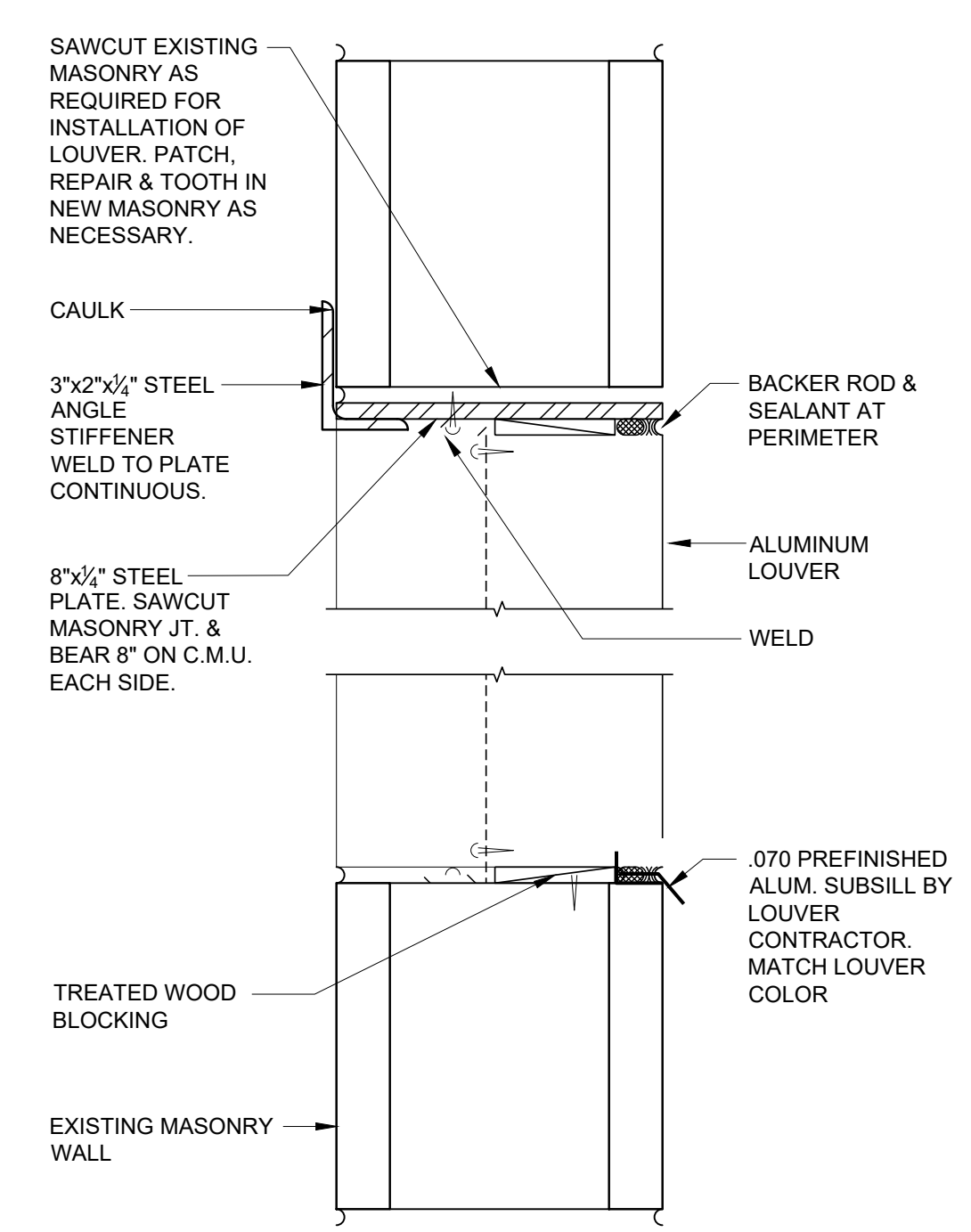
FRAME TYPES
SCALE: 3/8"=1'-0"



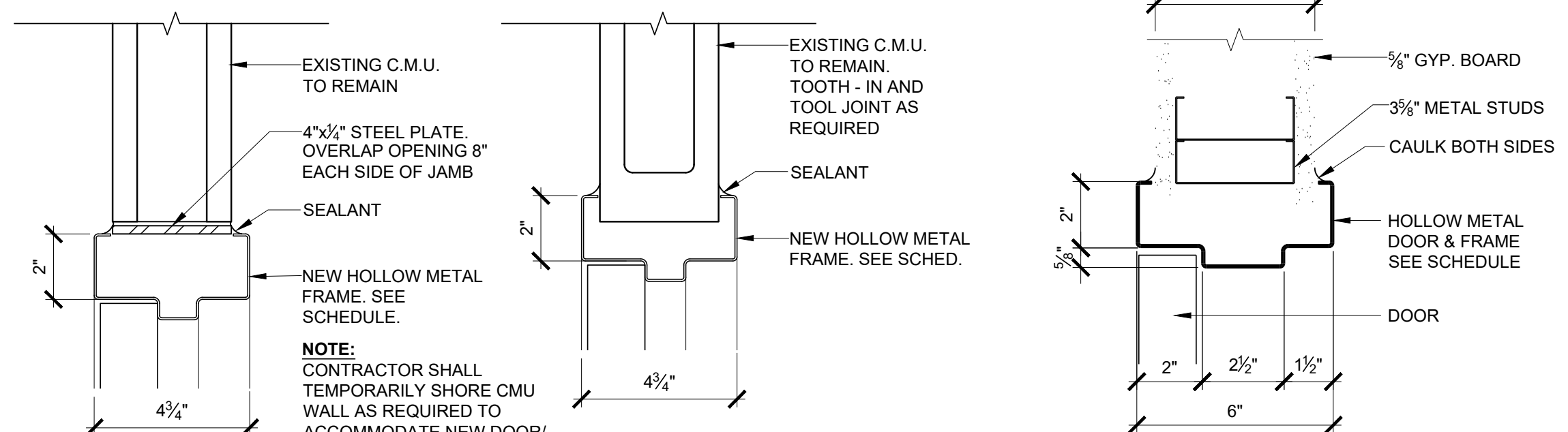
E TYPICAL CONCRETE FLOOR SLAB INFILL
SCALE: 1 1/2"=1'-0"



LOUVER SCHEDULE
SCALE: 3/8"=1'-0"



D LOUVER DETAIL
SCALE: 1"=1'-0"



A HEAD @ DOOR
B JAMB @ DOOR
C HEAD/JAMB @ DOOR
SCALE: 3/8"=1'-0"

GENERAL NOTES

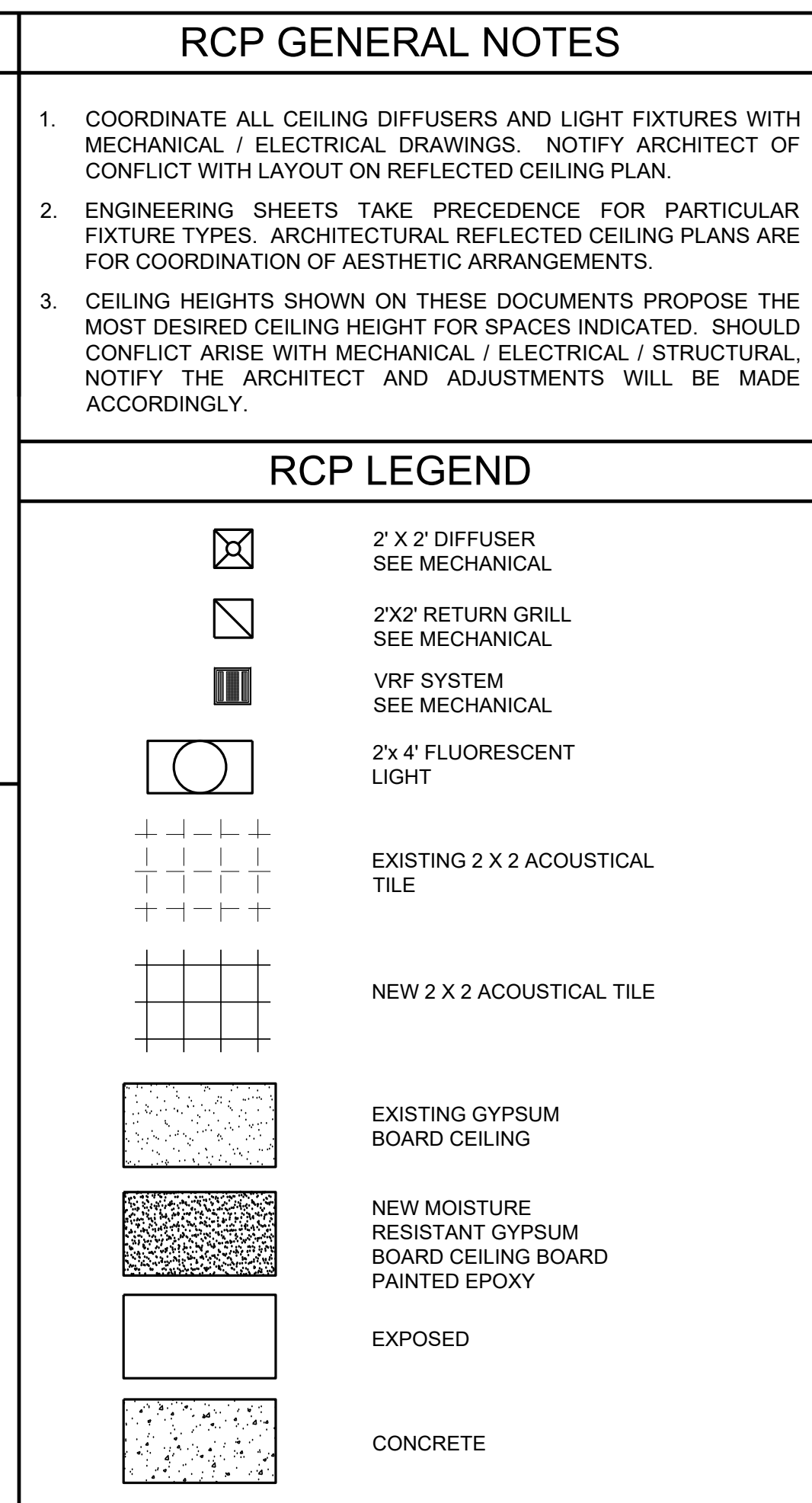
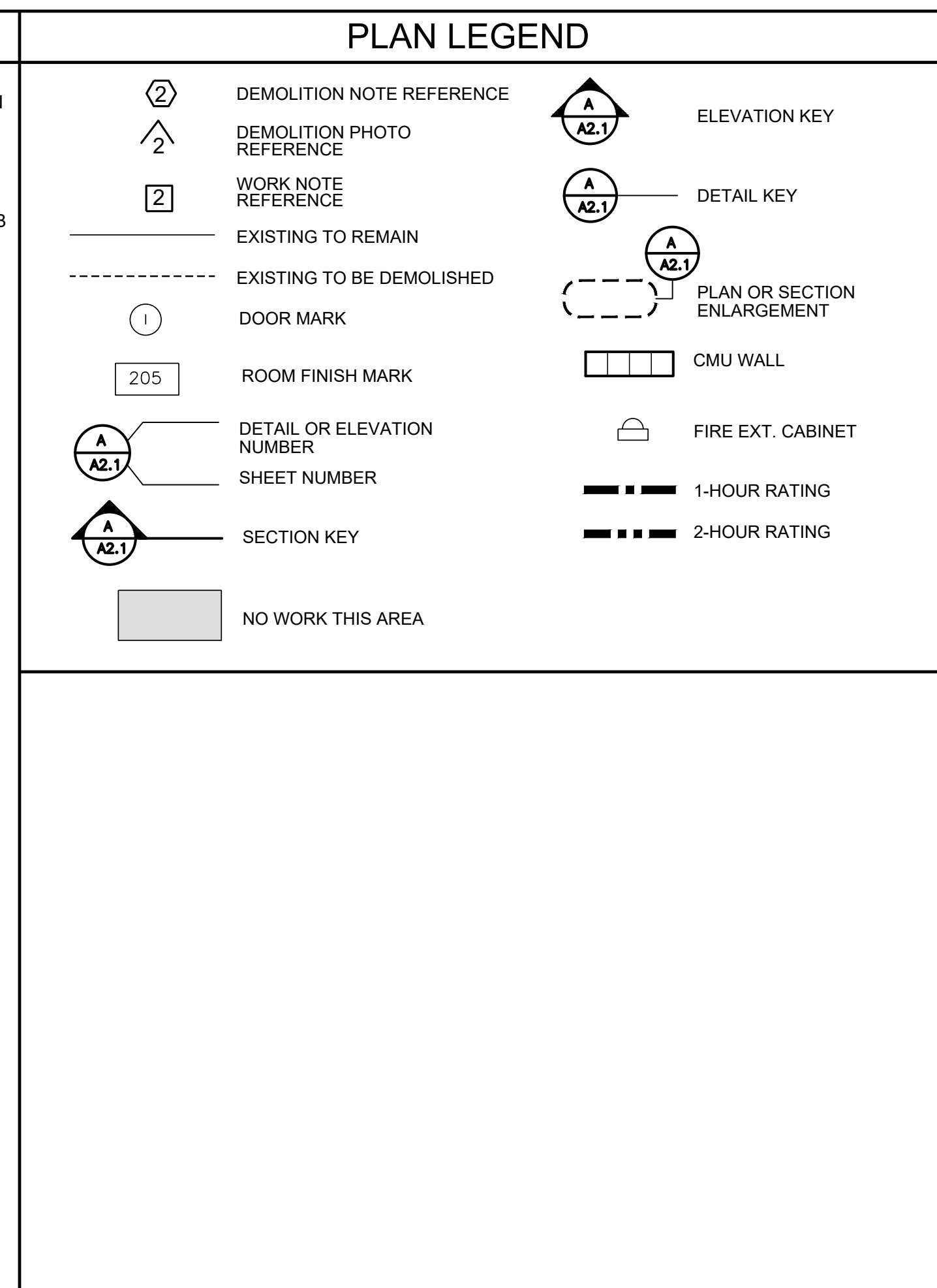
1. THE GENERAL AND DEMOLITION CONTRACTOR AND ALL SUB-CONTRACTORS SHALL MAKE A DETAILED INVESTIGATION OF THE SITE PRIOR TO STARTING WORK TO ENSURE THAT THE FULL SCOPE FOR THE DEMOLITION IS DOCUMENTED. THE ELEMENTS OUTLINED AND IDENTIFIED ON THE DEMOLITION DRAWINGS (ALL DISCIPLINES) ARE GENERAL IN NATURE AND ARE NOT INTENDED TO ESTABLISH OR IMPLY THE COMPLETE DEMOLITION SCOPE. ALL NECESSARY PROCEDURES, TECHNIQUES, MATERIALS AND PRODUCTS TO COMPLETE ALL DEMOLITION REQUIRED TO ACCOMMODATE ALL NEW CONSTRUCTION SHALL BE A PART OF THIS CONTRACT. ALL DEMOLITION BY PLUMBING, MECHANICAL & ELECTRICAL DISCIPLINES SHALL BE INCLUDED IN EACH RESPECTIVE DISCIPLINES' SCOPE OR AS COORDINATED FOR COMPLETION BY THE DEMOLITION IN THE GENERAL PROJECT SCOPE.
2. GENERAL CONTRACTOR SHALL SALVAGE ALL EXISTING DEMOLISHED MATERIALS, EQUIPMENT, FIXTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DISPOSITIONS OF ALL DEMOLISHED, SALVAGED ITEMS. NO ITEM IS TO REMAIN ON THE SITE. COORDINATE WITH THE OWNER FOR ANY ITEMS WHICH THE OWNER MAY WISH TO SALVAGE. ANY AND ALL DEMOLISHED OR SALVAGED.
3. SEE MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION DRAWINGS, NOTES, ETC. FOR SCOPE OF DEMOLITION IN THESE DISCIPLINES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PATCH AND REPAIR OF ANY FINISHES OR BUILDING COMPONENTS TO INCLUDE OR ASSOCIATED WITH, BUT NOT LIMITED TO FLOORS, WALLS, ROOFS, ETC. DAMAGED BY THE CONTRACTOR OR HIS SUBS DURING THE PROCESS OF THE WORK. DURING THE DETAILED INVESTIGATION DESCRIBED IN DEMOLITION NOTE 1, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BECOME FULLY AWARE OF THE SCOPE OF DEMOLITION AND ITS EFFECT ON BUILDING SYSTEMS TO REMAIN OR BE CONSTRUCTED SO AS TO ANTICIPATE ANY PATCHING OR REPAIR REQUIRED TO COMPLETE THE PROJECT AS OUTLINED IN THE CONSTRUCTION DOCUMENTS.
5. CONTRACTOR SHALL PROTECT EXISTING FLOOR FINISHES, WALLS, DOORS / DOOR FRAMES & HARDWARE, CEILINGS THROUGH OUT BUILDING, AREAS OF ACCESS AND AREAS OF WORK. CONTRACTOR SHALL REPAIR / PATCH DAMAGED ITEMS / AREAS AS REQUIRED TO ACHIEVE LIKE NEW CONDITIONS / FINISH. CONTRACTOR SHALL PHOTO DOCUMENT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
6. ALL FURNITURE INDICATED ON THESE PLANS IS EXISTING FURNITURE TO REMAIN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEMPORARILY RE-LOCATE EXISTING FURNITURE WITHIN AREAS OF WORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CONTRACTOR SHALL DOCUMENT EXISTING FURNITURE LAYOUT, PROTECT FURNITURE, AND RE-INSTALL FURNITURE IN ITS ORIGINAL LOCATION.

DEMOLITION NOTES

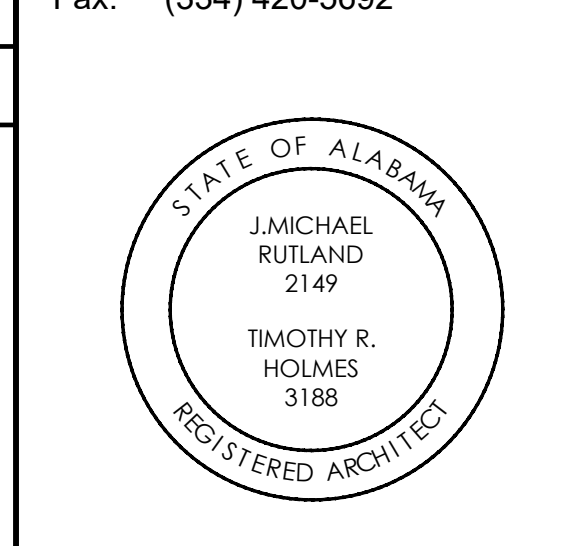
1. REMOVE AND DISCARD EXISTING ACCESS DOOR, FRAME & ALL ASSOCIATED HARDWARE TO ACCOMMODATE NEW CONSTRUCTION.
2. SAWCUT AND REMOVE PORTION OF EXISTING C.M.U. WALL AS REQUIRED FOR NEW HOLLOW METAL FRAME. RELOCATE/ RE-ROUTE EXISTING ELECTRICAL, FIRE PROTECTION, ETC. COMPONENTS AS REQUIRED. PATCH ALL FLOORS AND ADJACENT WALLS TO REMAIN. NEW MASONRY BUILD-UP WILL BE "TOOTHED-IN" AT NEW JAMB LOCATIONS.
3. REMOVE EXISTING C.M.U. WALL IN ITS ENTIRETY FROM FLOOR SLAB TO SLAB ABOVE. PATCH & REPAIR ADJACENT WALLS TO REMAIN & FLOOR & SLAB ABOVE.
4. REMOVE PORTION OF CHAIN LINK FENCING AS REQUIRED TO REMOVE EXISTING MECHANICAL UNIT. REINSTALL FENCING IN ORIGINAL LOCATION & CONFIGURATION AFTER INSTALLATION OF NEW MECHANICAL UNIT IS COMPLETE.
5. REMOVE PORTION OF EXISTING EXTERIOR WALL AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW LOUVER. SEE MECH. FOR SIZE OF PENETRATION. PROVIDE STEEL LINTEL AT MASONRY TYPICAL.
6. REMOVE, STORE AND PROTECT EXISTING CEILING TILE AND GRID AS REQUIRED FOR REMOVAL AND REPLACEMENT OF EXISTING MECHANICAL EQUIPMENT IN THIS AREA. RE-INSTALL EXISTING CEILING TILE AND GRID IN AFFECTED AREAS. REPLACE ANY DAMAGED CEILING TILE AND GRID.

WORK NOTES

1. INFILL EXISTING CMU WALL AS REQUIRED FOR INSTALLATION OF NEW HOLLOW METAL FRAME. TOOTH-IN AND STRING JOINT TO MATCH EXISTING. PRIME & PAINT NEW CMU TO MATCH EXISTING.
2. FORM AND INFILL HOLES (APPROX. 14"x14") IN EXISTING SLAB WHERE DUCTWORK WAS REMOVED WITH NEW CONCRETE AND REINFORCING AS SHOWN IN DETAIL E/A.3
3. REMOVE EXISTING LAY-IN CEILING AND GRID AS REQUIRED FOR INSTALLATION OF MECHANICAL DUCTWORK. REINSTALL TILE AND GRID IN ORIGINAL LOCATION AFTER INSTALLATION OF DUCTWORK IS COMPLETE.
4. PATCH, REPAIR, AND PAINT EXISTING CMU WALLS WHERE EXISTING CONDUIT IS BEING REMOVED. SEE ELECTRICAL DRAWINGS.
5. PATCH AND REPAIR EXISTING CEILING GRID WHERE DAMAGED AS A RESULT OF DEMOLITION OF EXISTING CONDUIT. RE-INSTALL EXISTING ACOUSTICAL CEILING TILE/REPLACE DAMAGED CEILING TILE AS REQUIRED.

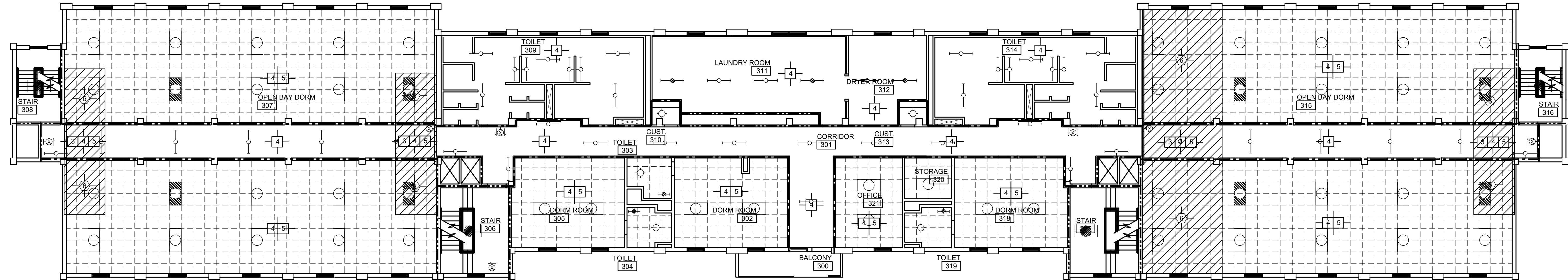


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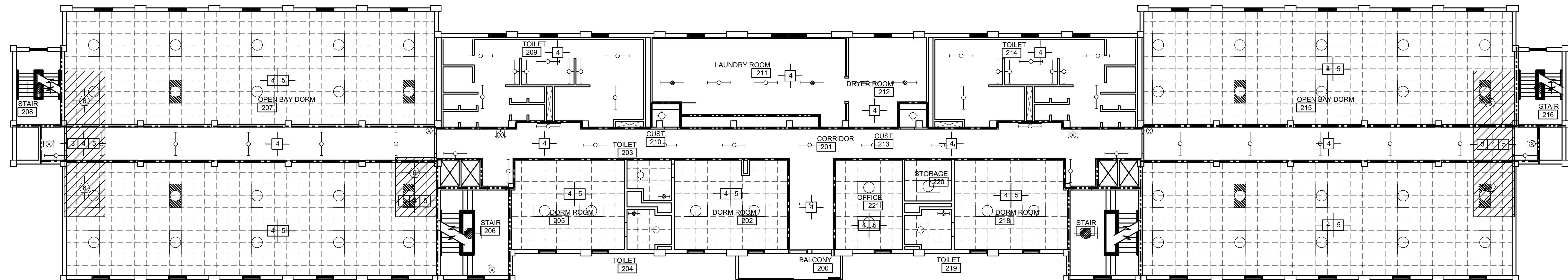
FMTC BUILDING
1021 HVAC
RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



BID ITEM B: CONSISTS OF REPLACEMENT OF ALL EXISTING LIGHTING FIXTURES AT THE SECOND AND THIRD FLOORS. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING INFORMATION.

THIRD FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"



BID ITEM B: CONSISTS OF REPLACEMENT OF ALL EXISTING LIGHTING FIXTURES AT THE SECOND AND THIRD FLOORS. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING INFORMATION.

SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

CONSTRUCTION DOCUMENTS

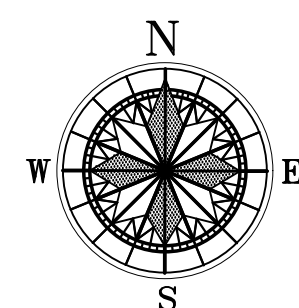
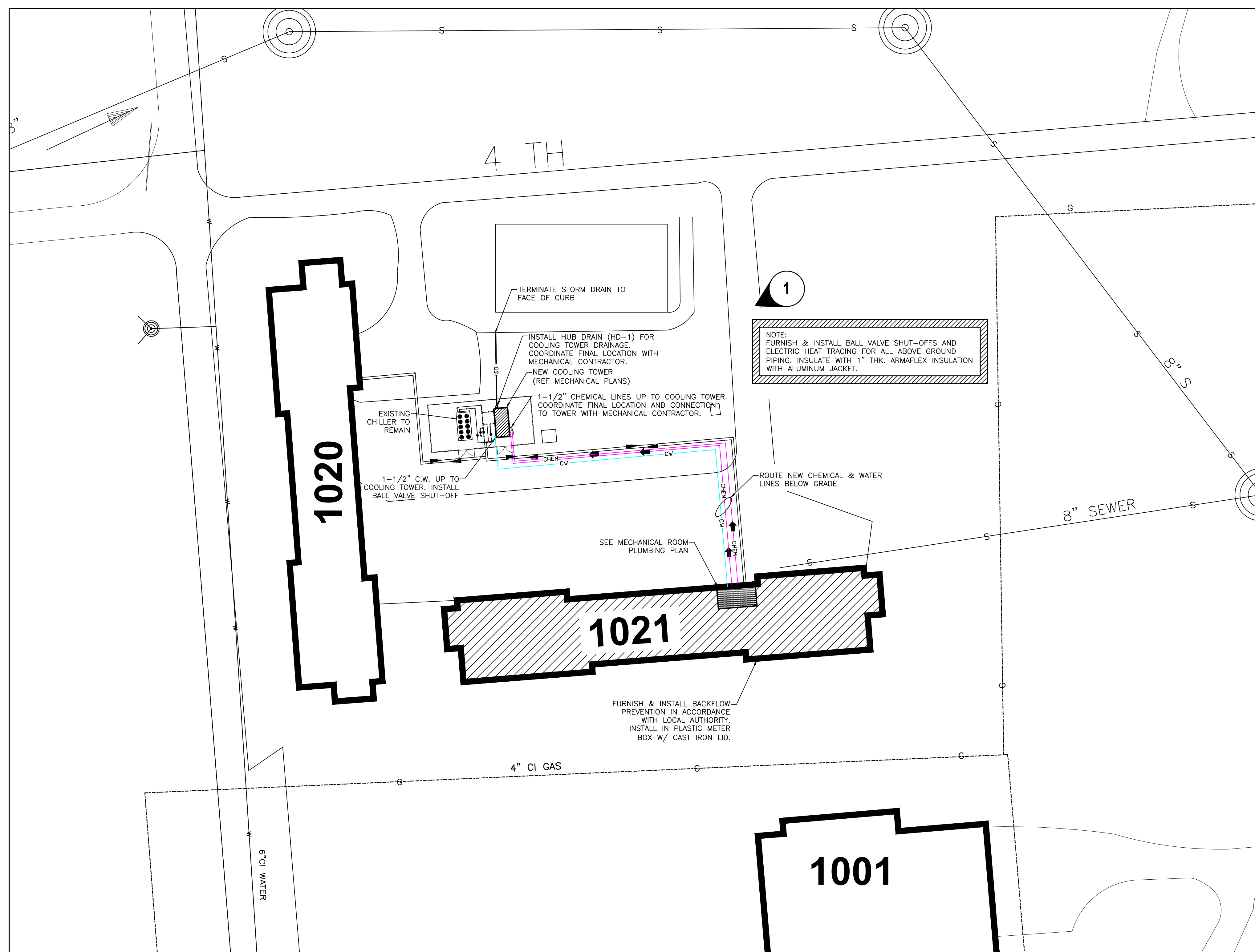
Project Number: 23-1337
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Revisions:

Sheet Description
SECOND & THIRD FLOOR REFLECTED CEILING PLANS

Sheet Number

BI.A/A2.1

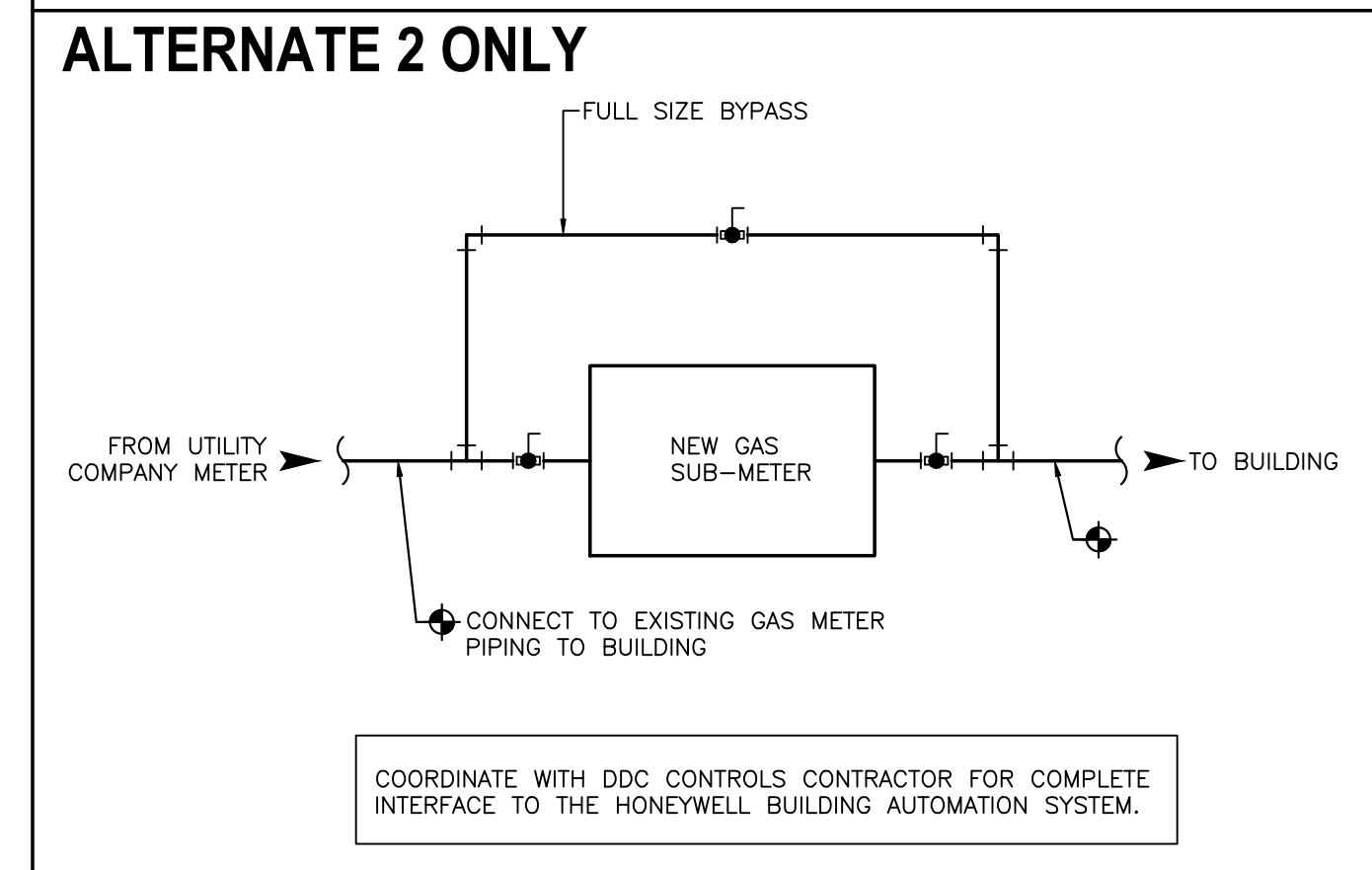
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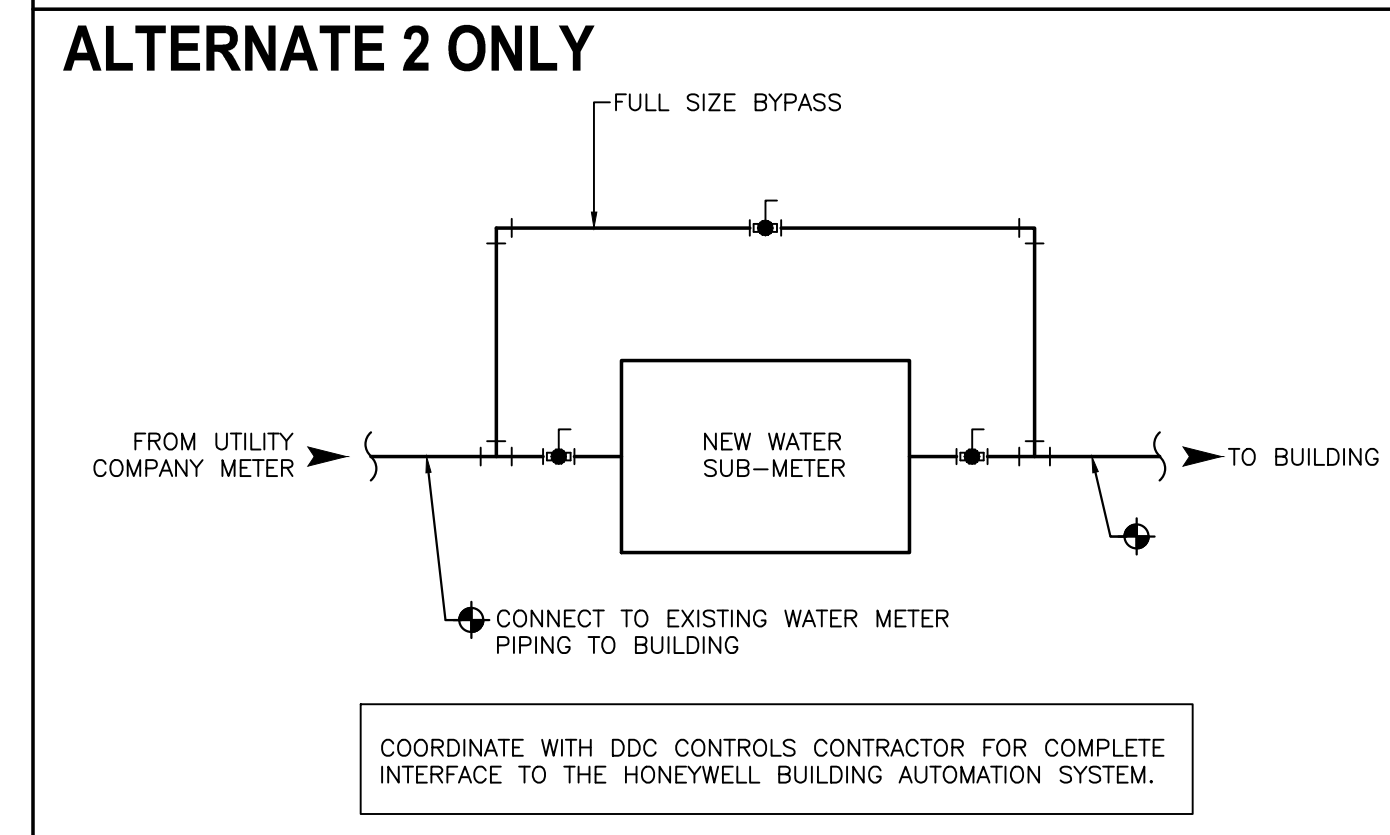
PLUMBING SITE PLAN

SCALE: 1" = 30'-0"

GAS SUB-METER PIPING DIAGRAM



WATER SUB-METER PIPING DIAGRAM

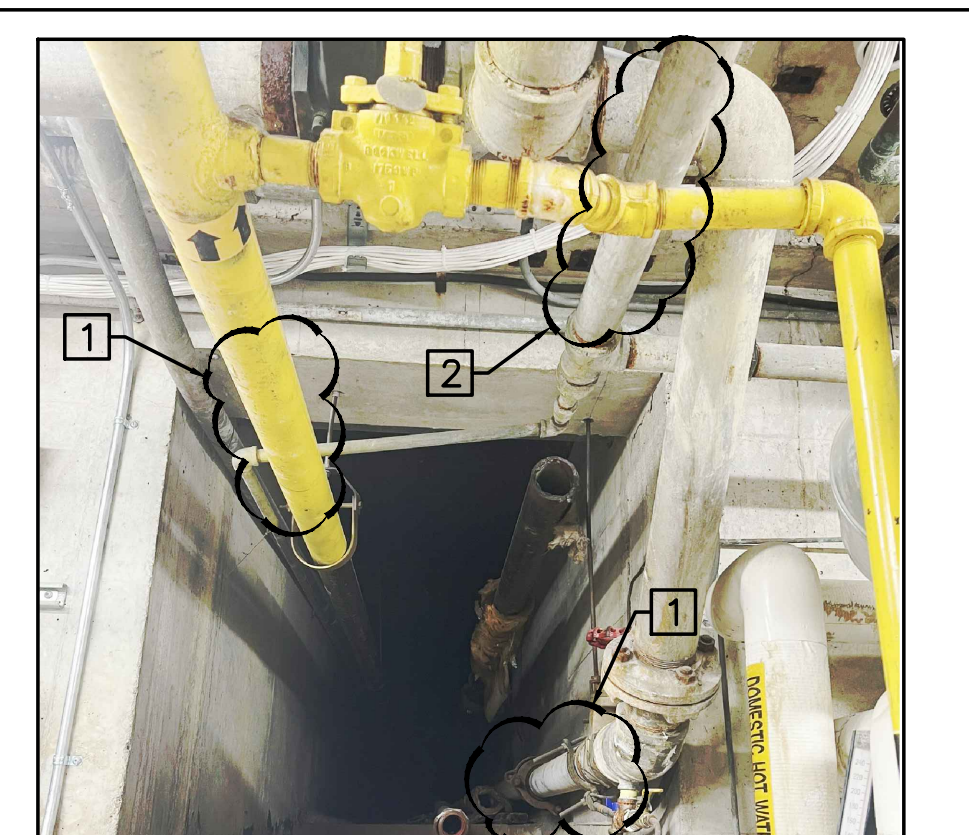


PLUMBING SPECIALITY SCHEDULE

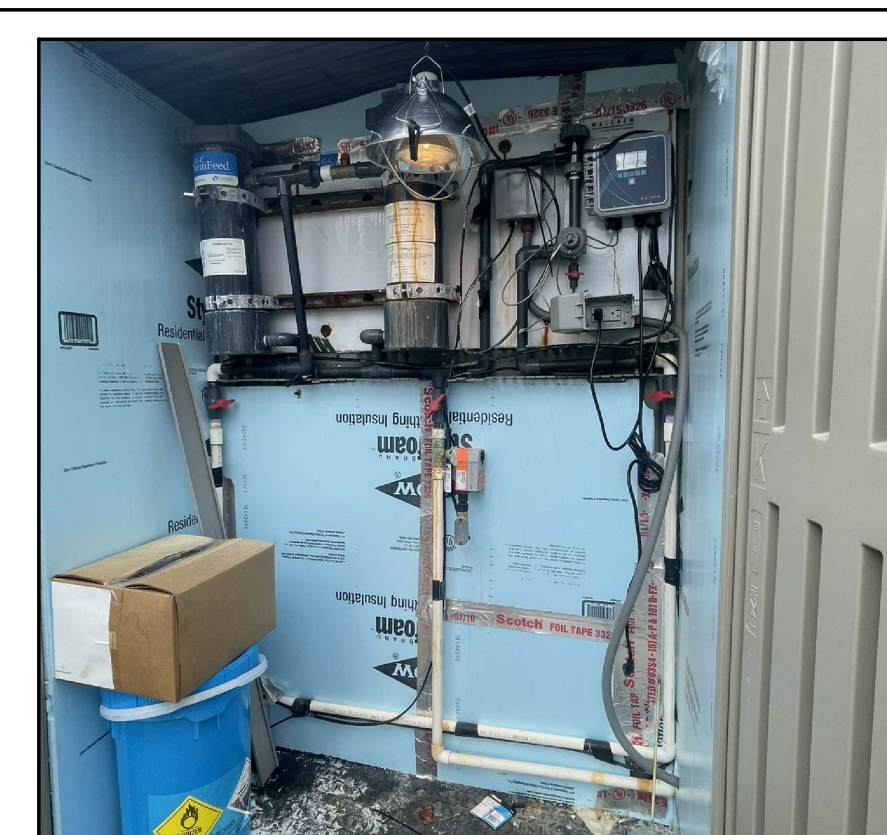
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
HD-1	HUB DRAIN	PROSET MODEL SYSTEM INC. MODEL NO. TG34FP OR APPROVED EQUAL	FLOOR	-	4"	-	-	-	-	STUB TO 1" A.F.F.



1 NEW PLUMBING EQUIPMENT
NOT TO SCALE



2 NEW PLUMBING EQUIPMENT
NOT TO SCALE



3 TYP. TOWER CHEMICAL TREATMENT INSTALLATION
NOT TO SCALE



4 TYP. TOWER CHEMICAL TREATMENT INSTALLATION
NOT TO SCALE

EVAPORATIVE CONDENSER TOWER CHEMICAL TREATMENT NOTES

- CHEMICAL TREATMENT SYSTEM SHALL MATCH EXISTING EQUIPMENT IN SERVICE. EXISTING SYSTEM IN SERVICE. EXISTING SYSTEM INCLUDES EQUIPMENT SUCH AS BELOW.
- DUAL TABLET TYPE CANISTERS FOR GARRATT CALLAHAN SMART RELEASE TECHNOLOGY WITH CW311-SR SCALE AND CORROSION INHIBITOR.
- REFERENCE PHOTO FOR TYPICAL TOWER BASIN TREATMENT EQUIPMENT TO BE INSTALLED IN BUILDING MECHANICAL ROOM.
- ALL ABOVE GROUND CHEMICAL TREATMENT TOWER AT THE TOWER PAD SHALL BE ELECTRICALLY HEAT TRACED FOR FREEZE PROTECTION.

BUILDING HYDRONIC WATER LOOP CHEMICAL TREATMENT NOTES

- THE BUILDING HYDRONIC WATER LOOP SHALL BE TREATED VIA THE "POT TYPE" CHEMICAL FEEDER.
- EQUIPMENT SHALL BE INSTALLED AS SHOWN ON PLANS AND SHALL INCLUDE A CHEMICAL WATER LOOP FROM THE BUILDING MECHANICAL ROOM TO THE TOWER BASIN.

PLUMBING NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- ALL PLUMBING COMPONENTS TO BE LEAD-FREE.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
- HORIZONTAL DRAINAGE PIPING OF 2-1/2" INCH DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" INCH PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" INCH PER FOOT.
- COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS AND OTHER STRUCTURAL CONDITIONS.
- PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS. FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRT'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS ETC..
- ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.

PLUMBING LEGEND

—SD—	STORM DRAIN
—CW—	COLD WATER
—CHEM—	COOLING TOWER CHEMICAL LINES
—S—	EXISTING DOMESTIC COLD WATER
—KCV—	EXISTING NATURAL GAS
—KNG—	EXISTING SANITARY SEWER

PLUMBING DRAWING INDEX

SHEET NO.	SHEET TITLE
BI.A/P1.1	PLUMBING SITE PLAN

WHORTON ENGINEERING, INC.

HWAC - PLUMBING - PROCESS CONTROL
Randall Whorton
 RANDALL WHORTON, P.E.
 PHONE: (256) 820-9897
 DATE: 03-25-2024
 25 SUMMERALL GATE ROAD
 ANNISTON, ALABAMA 36205

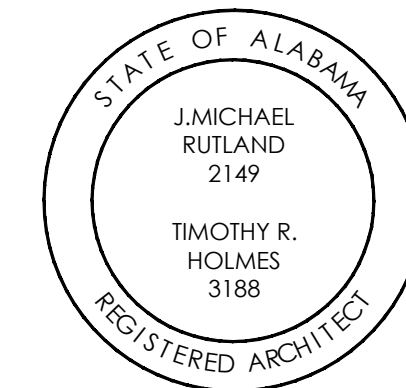


WHORTON ENGINEERING PROJECT NO. 23169

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FMTC BUILDING 1021 HVAC RESTORATION

ANNISTON, ALABAMA
 IFB#: AC-24-B-0033-S

CONSTRUCTION DOCUMENTS

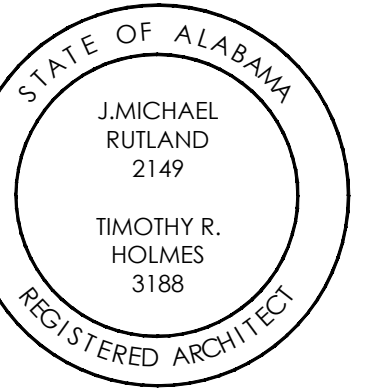
Project Number: 23-1337
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 Revisions:

Sheet Description

PLUMBING SITE PLAN

Sheet Number

BI.A/P1.1



**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
DOCUMENTS**

Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

Sheet Description

**HVAC LEGEND,
NOTES, AND
SCHEDULES**

Sheet Number

BI.A/M1.1

HVAC LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING DIFFUSER - SUPPLY RECTANGULAR WITH ROUND NECK 4-WAY THROW UNLESS OTHERWISE INDICATED		ACCESS DOORS VERTICAL OR HORIZONTAL		STANDARD 90° RADIUS ELBOW
	CEILING DIFFUSER - SUPPLY ROUND 2 HORIZONTAL DISCHARGE PATTERNS		MANUAL VOLUME DAMPER OPPOSED BLADE		STANDARD 45° RADIUS ELBOW
	CEILING DIFFUSER - RETURN RECTANGULAR WITH SQUARE NECK		LOW LEAKAGE MOTORIZED VOLUME DAMPER		90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	SIDEWALL DIFFUSER - SUPPLY WITH MULTI-VANE DEFLECTOR		SMOKE DETECTOR FOR FAN SHUT-DOWN		45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	SIDEWALL DIFFUSER - RETURN WITH 30° FIXED DEFLECTION		FIRE-STAT FOR FAN SHUT-DOWN		VANE TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING)
XX-X XXX CFM	DIFFUSER TAG REFERENCE SCHEDULE FOR SIZING		IN DUCT SENSOR (TEMP/HUMIDITY) LOCATION		STANDARD DUCT SIZE TRANSITION
	CEILING EXHAUST FAN		HORIZONTAL MOUNTED FIRE DAMPER		STANDARD SQUARE TO ROUND TRANSITION
	NEW RECTANGULAR DUCT WIDTH X DEPTH		VERTICAL MOUNTED FIRE DAMPER		HVAC CONDENSATE DRAIN PIPING
	NEW ROUND DUCT DIAMETER		THERMOSTAT LOCATION		HVAC REFRIGERANT LINE
	FLEXIBLE DUCT CONNECTION		HUMIDISTAT LOCATION		CONNECTION TO EXISTING
	DUCT RISE IN DIRECTION OF ARROW		CARBON DIOXIDE SENSOR LOCATION		
	DUCT DROP IN DIRECTION OF ARROW		CEILING MOUNTED OCCUPANCY SENSOR		

HVAC NOTES	
1 ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL.	22 PAINT ALL EXTERIOR EXPOSED ARMAFLEX INSULATION FOR UV PROTECTION.
2 INSTALL OPPOSED BLADE BALANCING DAMPERS IN ALL NEW DIFFUSERS AND GRILLES.	23 PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
3 THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.	24 FLEXIBLE DUCT (SUPPLY RUNOUTS ONLY) SHALL NOT EXCEED 6'-0" IN LENGTH.
4 COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.	25 DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: RECTANGULAR SUPPLY: 1" INTERNAL ROUND SUPPLY: 1-1/2" EXTERNAL FLEXIBLE SUPPLY: PRE INSULATED RECTANGULAR RETURN: 1" INTERNAL OSA/EXHAUST: 1-1/2" EXTERNAL
5 REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES; COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.	26 DUCTWORK SHALL BE GALVANIZED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
6 COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER, TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.	27 LABEL ALL DUCTS WITH TYPE (SUPPLY, RETURN, ETC.) AND ARROWS INDICATING DIRECTION OF AIR FLOW. LABELS SHALL BE EVERY SIX FEET AND AT EACH CHANGE OF DIRECTION (T'S, ELBOWS, ETC.)
7 THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE REQUIRED.	28 ROUND DUCT SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM INSTALLED R-VALUE 4.2. ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0
8 THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL RATED WALLS, CEILINGS, FLOORS, ETC. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.	29 ALL OPEN ENDED DUCT SHALL BE CAPPED WITH 1/2"x1/2" WIRE MESH.
9 CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.	30 ALL EXPOSED DUCT SHALL BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO CERTAINTED T62 DUCT LINER WITH MINIMUM INSTALLED R-VALUE 4.0.
10 ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.	31 ALL EXPOSED DUCT SHALL BE PAINTED. DUCT SHALL BE "PAINT GRIP". COORDINATE PAINT COLOR WITH OWNER.
11 ALL MOTOR STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.	32 DUCT LINER FOR RECTANGULAR DUCTS SHALL BE EQUAL TO CERTAINTED T62 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ATTIC SHALL BE LINED WITH DUCT LINER EQUAL TO CERTAINTED T62 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL TO CERTAINTED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH A MINIMUM INSTALLED R-VALUE OF 4.2.
12 CONTRACTOR TO COORDINATE ALL CEILING TYPES WITH DIFFUSERS. ALL DIFFUSERS IN GYPSUM CEILING SHALL INCLUDE PLASTER FRAME.	33 THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL A SMOKE DETECTOR FOR FIRE SHUT DOWN IN ALL UNITS 2000 CFM AND ABOVE AND IN ALL UNITS SERVING EXIT ACCESS CORRIDORS REGARDLESS OF SIZE.
13 ALL DISTRIBUTION DEVICES SHALL HAVE OPERABLE DAMPERS. ALL DIFFUSER RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER IN ROUND DUCTS.	34 ALL DAMPERS INTERLOCKED WITH CARBON DIOXIDE SENSOR SHALL BE 24 VOLT MODULATING MOTORIZED DAMPER. DAMPER SHALL INCLUDE STEP DOWN TRANSFORMER 120V/24V.
14 INSULATE TOP SIDE/BACK OF ALL DIFFUSERS/GRILLES, ETC.	35 WARRANTIES SHALL BEGIN AT DATE OF FINAL ACCEPTANCE OR BENEFICIAL OCCUPANCY. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT. ADDITIONALLY CONTRACTOR IS RESPONSIBLE FOR ALL PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE ON INSTALLED EQUIPMENT FOR THE ONE YEAR WARRANTY PERIOD IN ORDER TO MAINTAIN ALL FACTORY/MANUFACTURER WARRANTIES.
15 CONDENSATE DRAIN PIPING SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT AND SHALL BE SIZED PER TABLE 307.2.2 IN THE 2021 INTERNATIONAL MECHANICAL CODE UNLESS SHOWN LARGER ON PLANS.	36 INSTALL ANGLE COVER OVER CONDENSATE LINES, REFRIGERANT LINES, ETC. THAT CROSS MEZZANINE FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.
16 ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED EQUAL WITH FLOAT SWITCH.	37 CONTRACTOR SHALL ANCHOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER PLANS/SPECIFICATIONS. COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC. WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
17 INSTALL AUXILIARY DRAIN PAN UNDER ALL UNITS MOUNTED IN ATTIC ABOVE CEILINGS, ETC. INSTALL WET SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN - DIVERSITECH "WET SWITCH" CONDENSATE DETECTION SWITCH OR APPROVED EQUAL.	38 THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.
18 VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH OWNER.	39 ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
19 ALL UNUSED PORTION OF LOUVERS SHALL BE CAPPED OFF WITH 1" INSULATED ALUMINUM AND SEALED AIR/WATER TIGHT.	40 MANUFACTURER/CONTRACTOR SHALL FURNISH AND INSTALL TORNADO/HURRICANE WIND CLIPS FOR CURB MOUNTED EQUIPMENT.
20 UNLESS OTHERWISE NOTED, UNITS SHALL INCLUDE A HONEYWELL SPYDER PLUS35SR (OR EQUAL) PROGRAMMABLE CONTROLLER WITH HONEYWELL SYLK I/O MODULES (OR EQUAL) AS REQUIRED TO PROVIDE THE CONTROL POINTS AS LISTED IN THE POINTS MATRIX. WALL MODULES SHALL BE COMMUNICATING HONEYWELL TR-71H MODULES (OR EQUAL) FOR TEMPERATURE/HUMIDITY CONTROL AND TR-40-CO2 (OR EQUAL) FOR CO2 CONTROL WHERE A CO2 SENSOR IS SPECIFIED.	41 ALL COLOR/FINISH SELECTIONS SHALL BE MADE BY OWNER.
21 ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL UNLESS OTHERWISE INDICATED.	42 COORDINATE DDC CONTROLLER TERMINAL ASSIGNMENTS WITH AANG DDC STANDARDS AND PRACTICES.

PUMP SCHEDULE										
MARK NO.	SERVICE	TYPE	GPM	TOTAL HEAD FT. WG.	MAXIMUM H.P.	MINIMUM EFFICIENCY	VOLTAGE	MODEL NO. DATA		NOTES
								MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	
WP-1	HYDRONIC LOOP	FRAME MOUNTED	245	70	7.5	70%	208-3-60	TACO	F13009	SEE BELOW
WP-2	HYDRONIC LOOP	FRAME MOUNTED	245	70	7.5	70%	208-3-60	TACO	F13009	SEE BELOW
1 FACTORY MOUNTING FRAME TO BE PROVIDED, SUCTION DIFFUSER. 2 EACH PUMP SYSTEM SHALL INCLUDE VARIABLE SPEED PUMPING COMPLETE WITH ALL CONTROLS AND BE INTERFACED TO THE BUILDING AUTOMATION SYSTEM. ELECTRONIC VARIABLE SPEED CONTROLS SHALL BE BY BELL AND GOSSETT, ABB, OR AN APPROVED EQUAL. SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR A VARIABLE SPEED WATER SOURCE HEAT PUMP INSTALLATION. FULL COORDINATION WITH THE HEAT PUMP SUPPLIER IS REQUIRED. THE VARIABLE SPEED DRIVE SYSTEM SHALL REQUIRE ONLY SINGLE POINT ELECTRICAL SERVICE AND SHALL INCLUDE A FACTORY DISCONNECT. 3 WP-1 AND WP-2 SHALL OPERATE AS LEAD/LAG PUMP AND ROTATE WEEKLY (PUMPS DO NOT RUN SIMULTANEOUSLY). 4 ALL PUMPS SHALL BE SIZED FOR FLOW PLUS 10% EXTRA CAPACITY. 5 VARIABLE FREQUENCY DRIVES SHALL NOT BE MOTOR MOUNTED. VFD DRIVES SHALL BE SEPARATE FROM THE MOTOR.										
APPROVED EQUALS: BELL AND GOSSETT, ARMSTRONG, AURORA, GRUNDFOS, AND PACO										

LOUVER SCHEDULE											
MARK NO.	MOUNTING	SIZE W X H	BLADE ANGLE	BLADE CENTERS	MIN. FREE AREA	MINIMUM FREE AREA SQ. FT.	MAXIMUM PRESSURE DROP IN W.G.	CFM	MODEL NO. DATA		NOTES
									MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	
L-1	SIDE WALL	16"x16"	37°	4"	32%	0.57	0.10	375	GREENHECK	ESD-635	SEE BELOW
L-2	SIDE WALL	16"x16"	37°	4"	32%	0.57	0.10	375	GREENHECK	ESD-635	SEE BELOW
1 LOUVER TO INCLUDE FLANGE FRAME AND KYNAR FINISH. VERIFY FINAL COLOR AND FINISH WITH ARCHITECT. VERIFY QUANTITY WITH PLANS.											
APPROVED EQUALS: RUSKIN AND UNITED ENERTECH.											

AIR / DIRT SEPARATOR SCHEDULE								
MARK NO.	SYSTEM	SIZE (INCHES)	GPM	MAX. PD (FT.)	TYPE	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	NOTES
AS-1	HVAC WATER	4"	245	1.0	TANK - HIGH VELOCITY (AIR/DIRT)	SPIROTHERM	SPIROVENT VHN400	SEE BELOW
1 ASME CERTIFIED								

EXPANSION TANK SCHEDULE									
MARK NO.	SYSTEM	TANK VOLUME (GAL)	SHIPPING WEIGHT (LBS)	CHARGE PRESSURE (PSI)	DIAMETER (IN.)	HEIGHT (IN.)	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	NOTES
ET-1	HVAC WATER	79	320	25	24"	60.5"	TACO	CA300	SEE BELOW
1 ASME CERTIFIED									

CODES AND STANDARDS
<ul style="list-style-type: none"> 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL FUEL GAS CODE ASHRAE 90.1-2013 ENERGY STANDARD

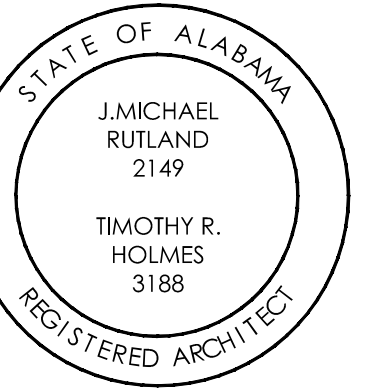
HVAC DRAWING INDEX	
SHEET NO.	SHEET TITLE
BI.A/M1.1	HVAC LEGEND, NOTES, AND SCHEDULES
BI.A/M1.2	HVAC SCHEDULES
BI.A/M2.1	HVAC DETAILS
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BI.A/M3.1	FIRST FLOOR HVAC DEMOLITION PLAN
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BI.A/M4.1	FIRST FLOOR REVISED HVAC PLAN
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BI.A/M5.1	BASEMENT AND FIRST FLOOR HYDRONIC PIPING PLAN
BI.A/M5.2	ROOF HYDRONIC PIPING PLAN
BI.A/M5.3	MECHANICAL YARD PLAN
BI.A/M5.4	HYDRONIC PIPING DIAGRAM

HVAC LEGEND, NOTES, AND SCHEDULES

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

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**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
DOCUMENTS**

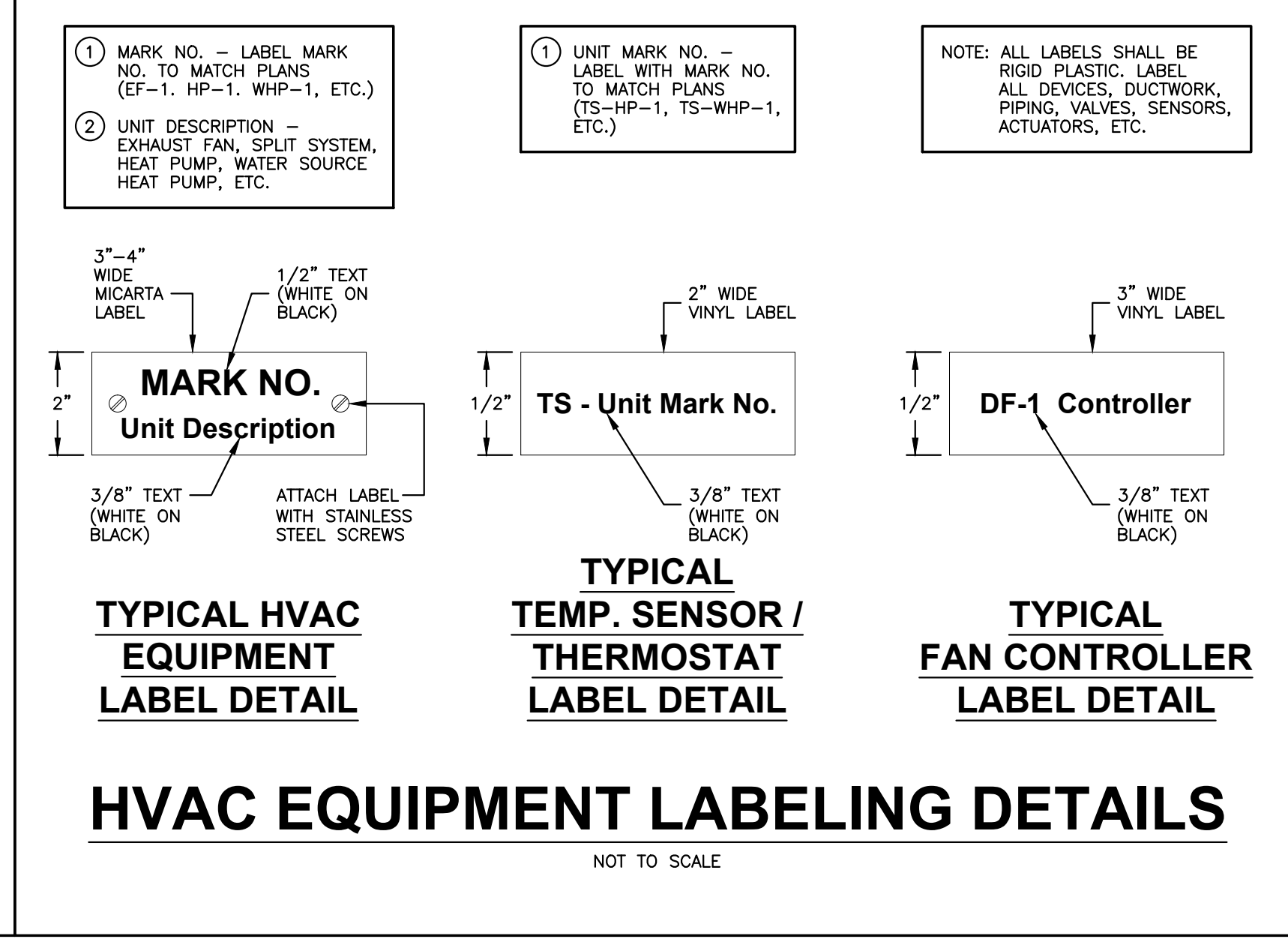
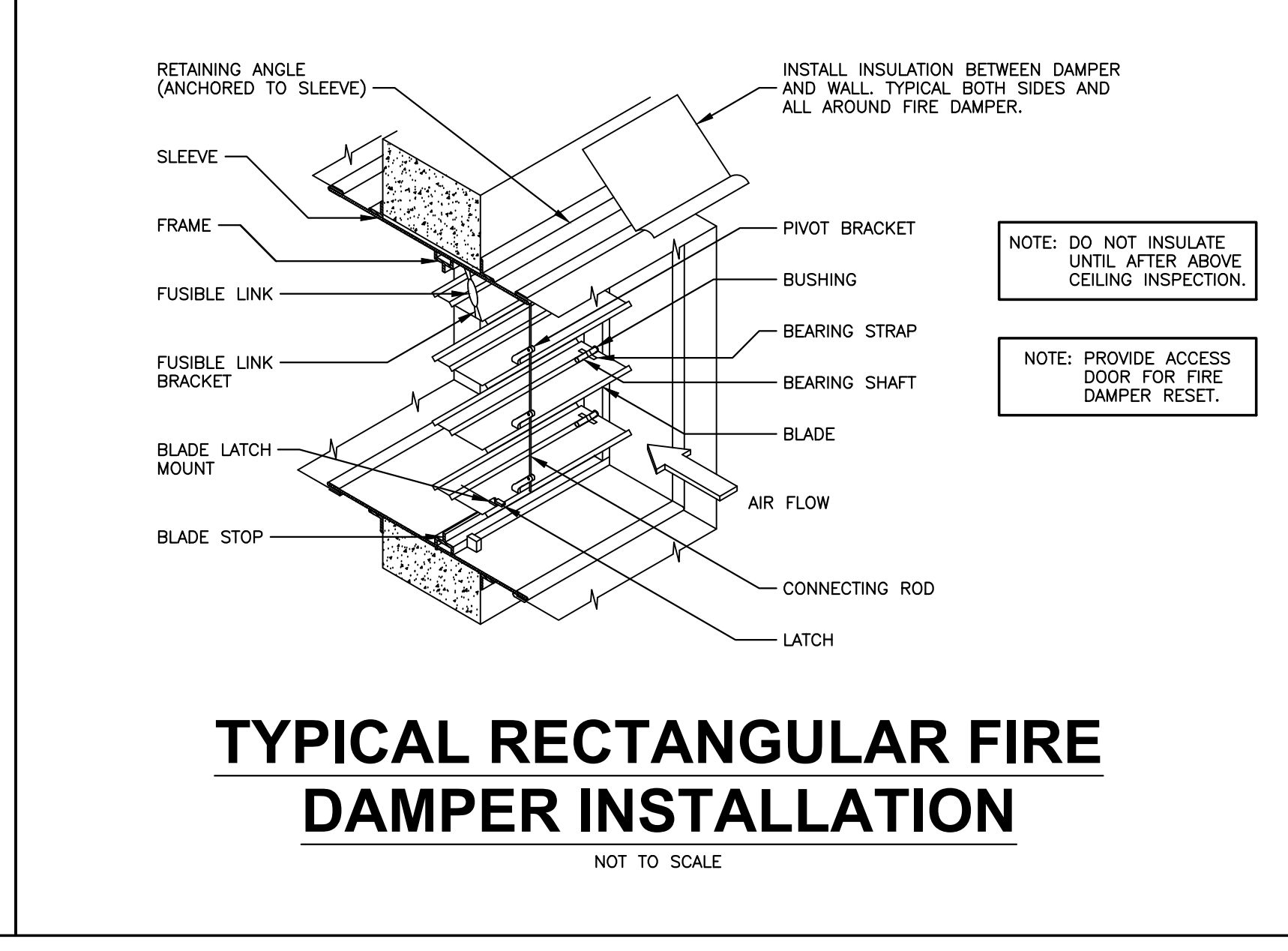
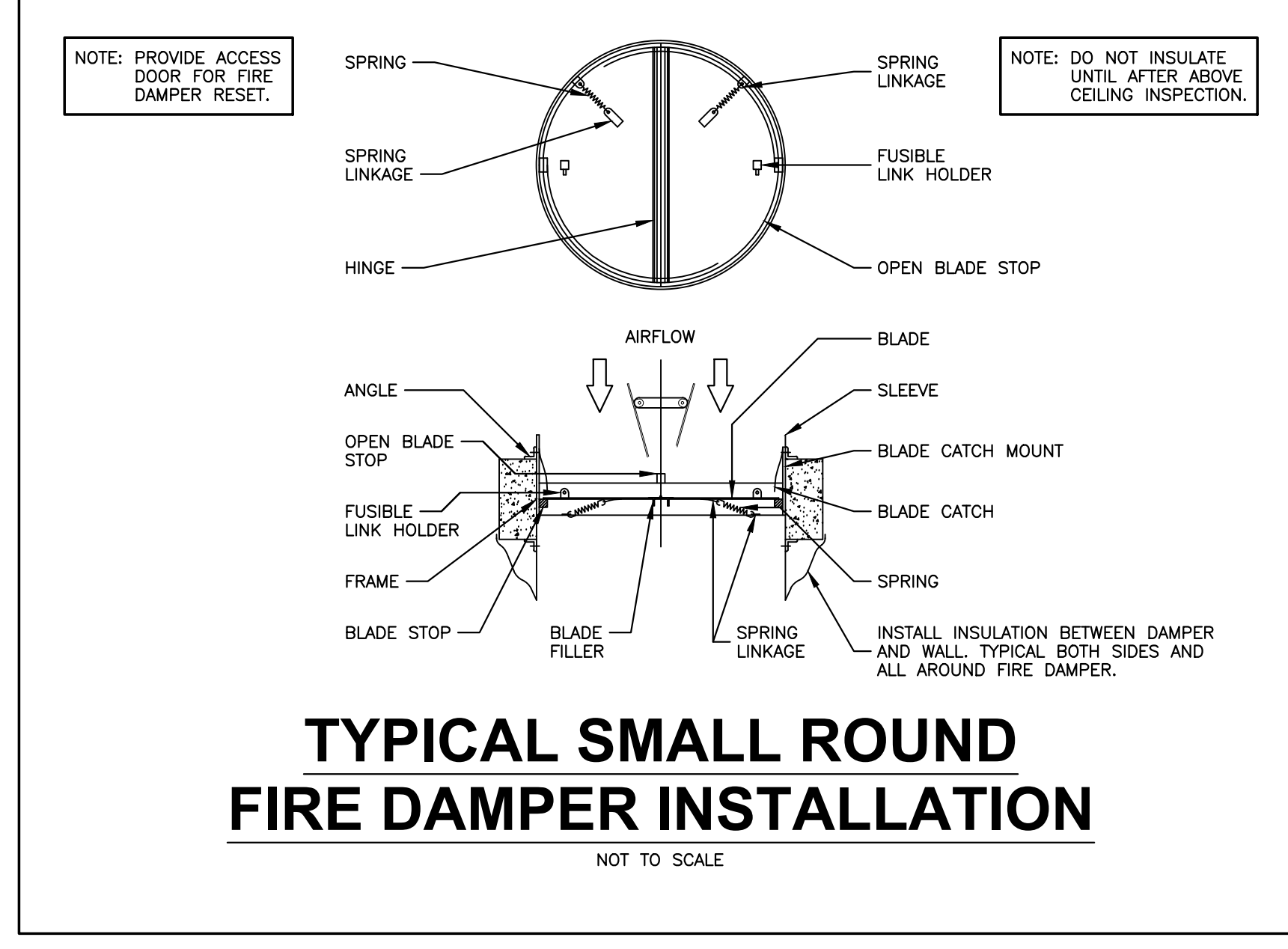
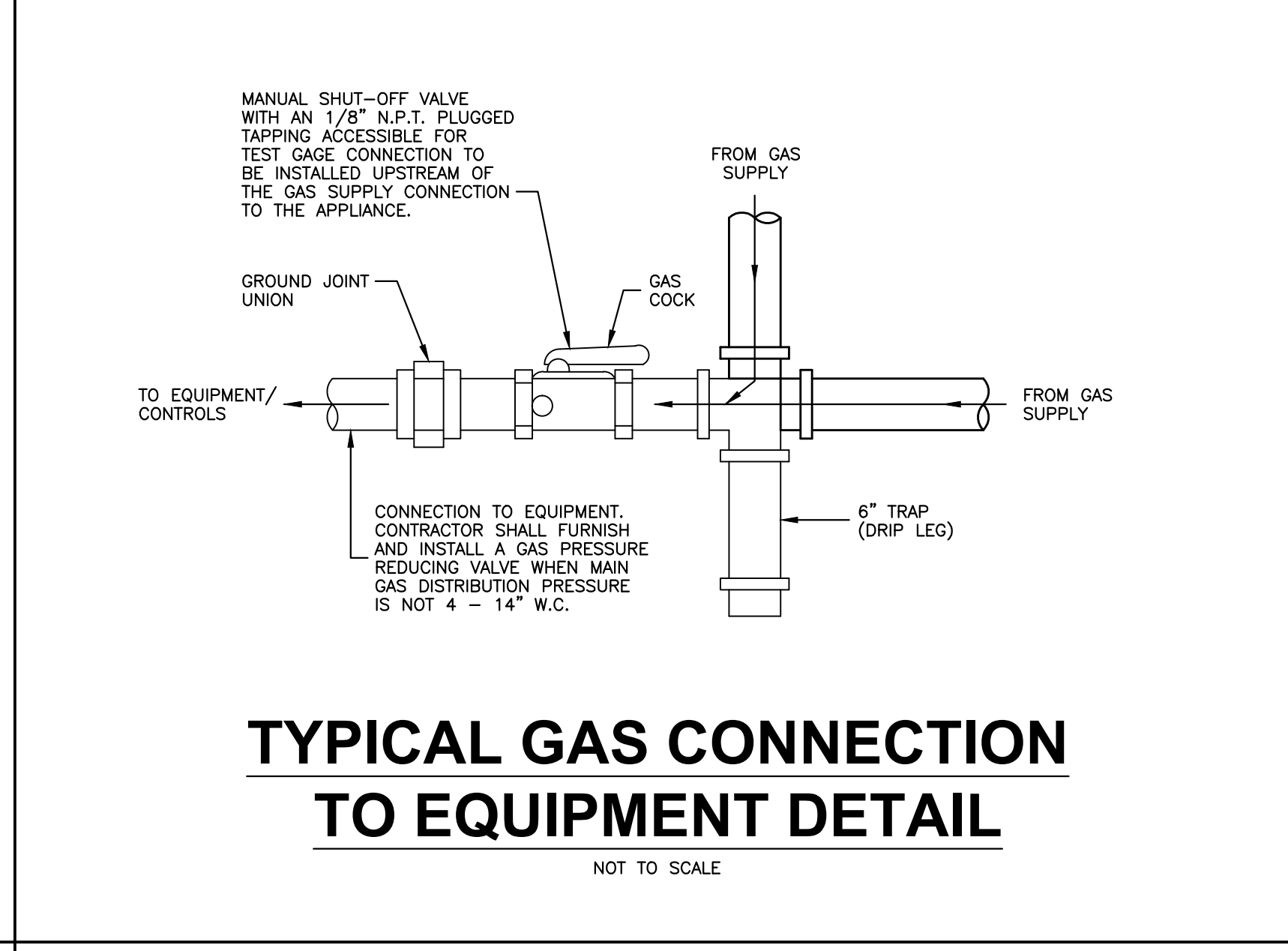
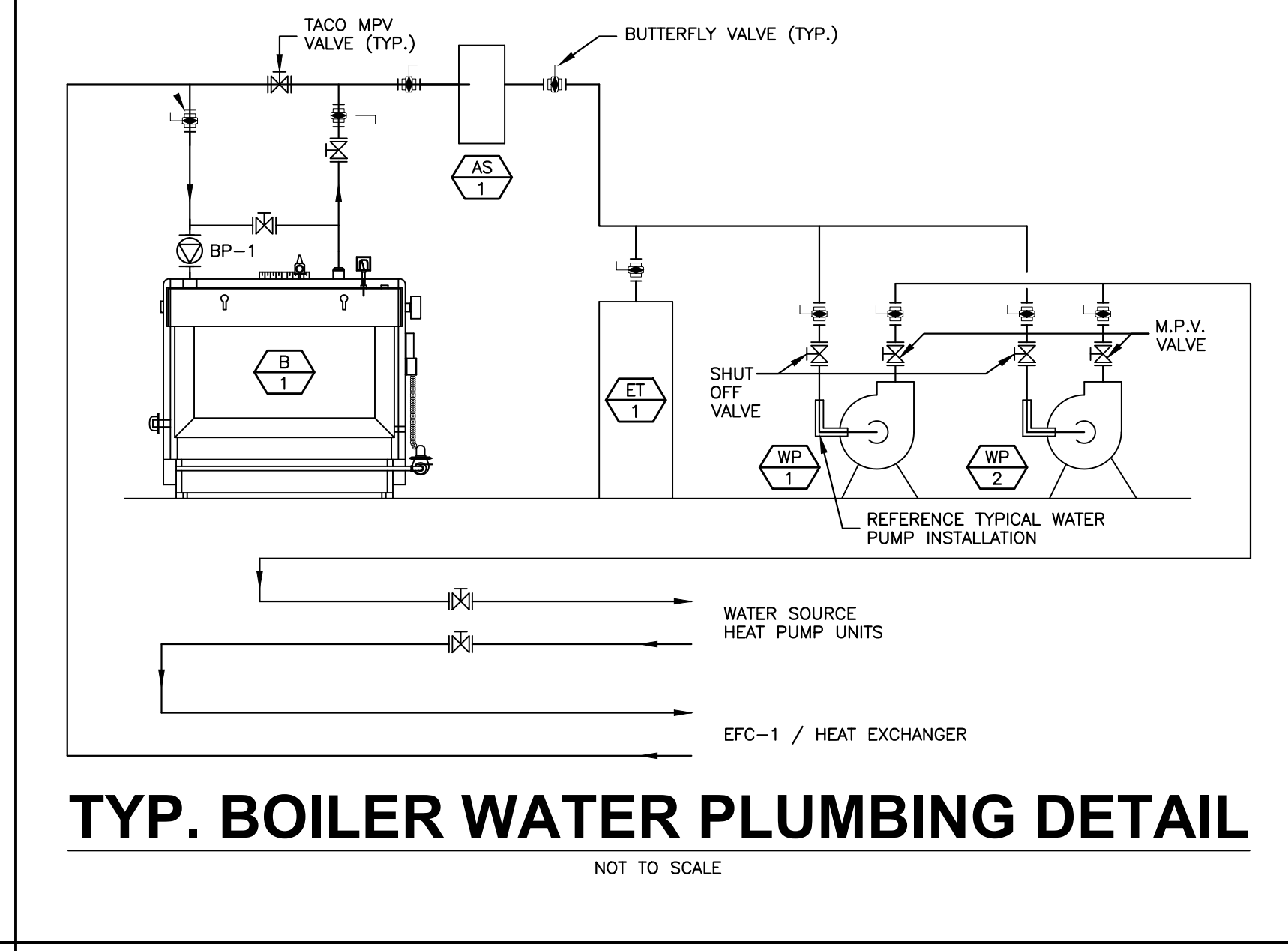
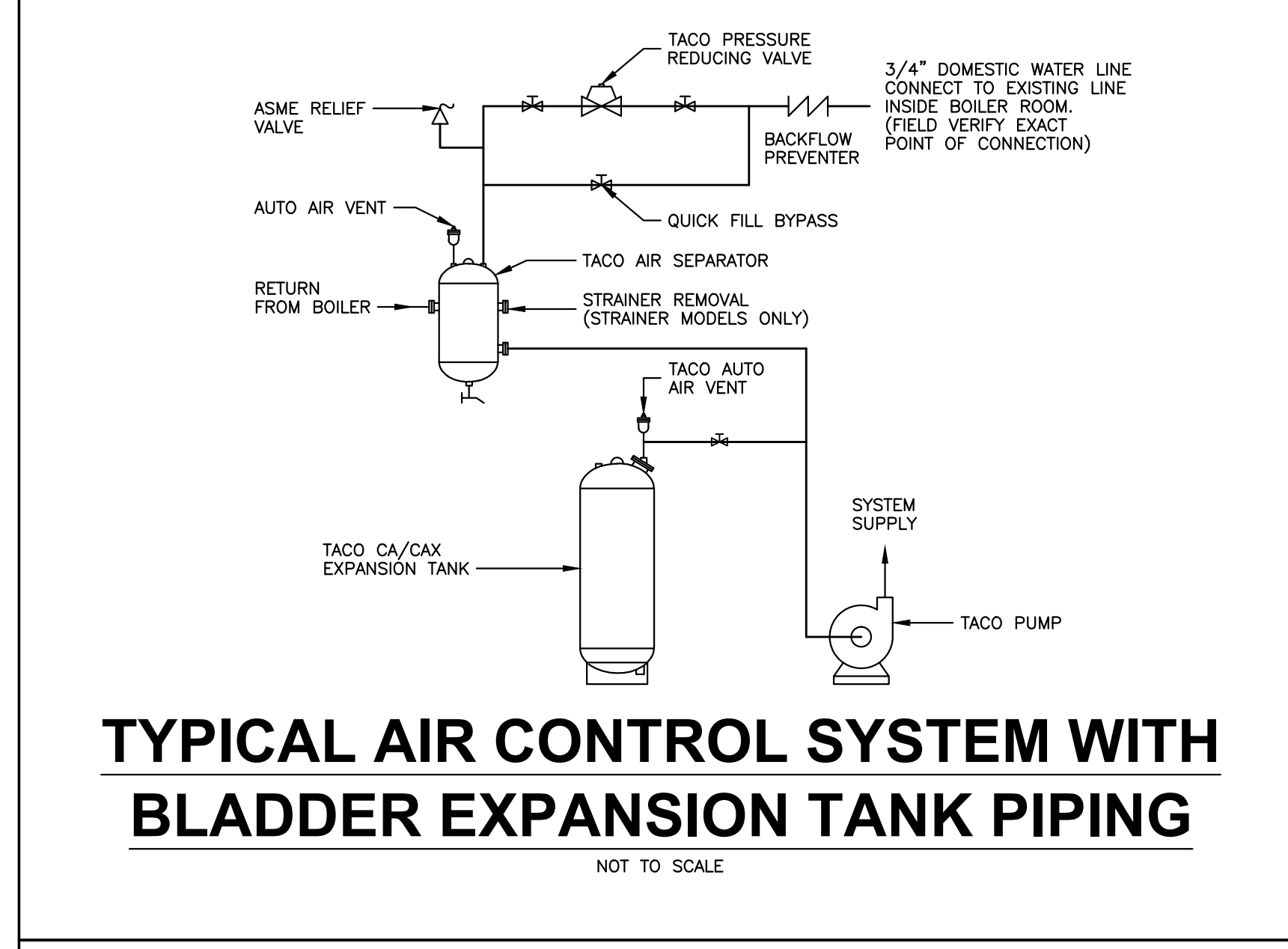
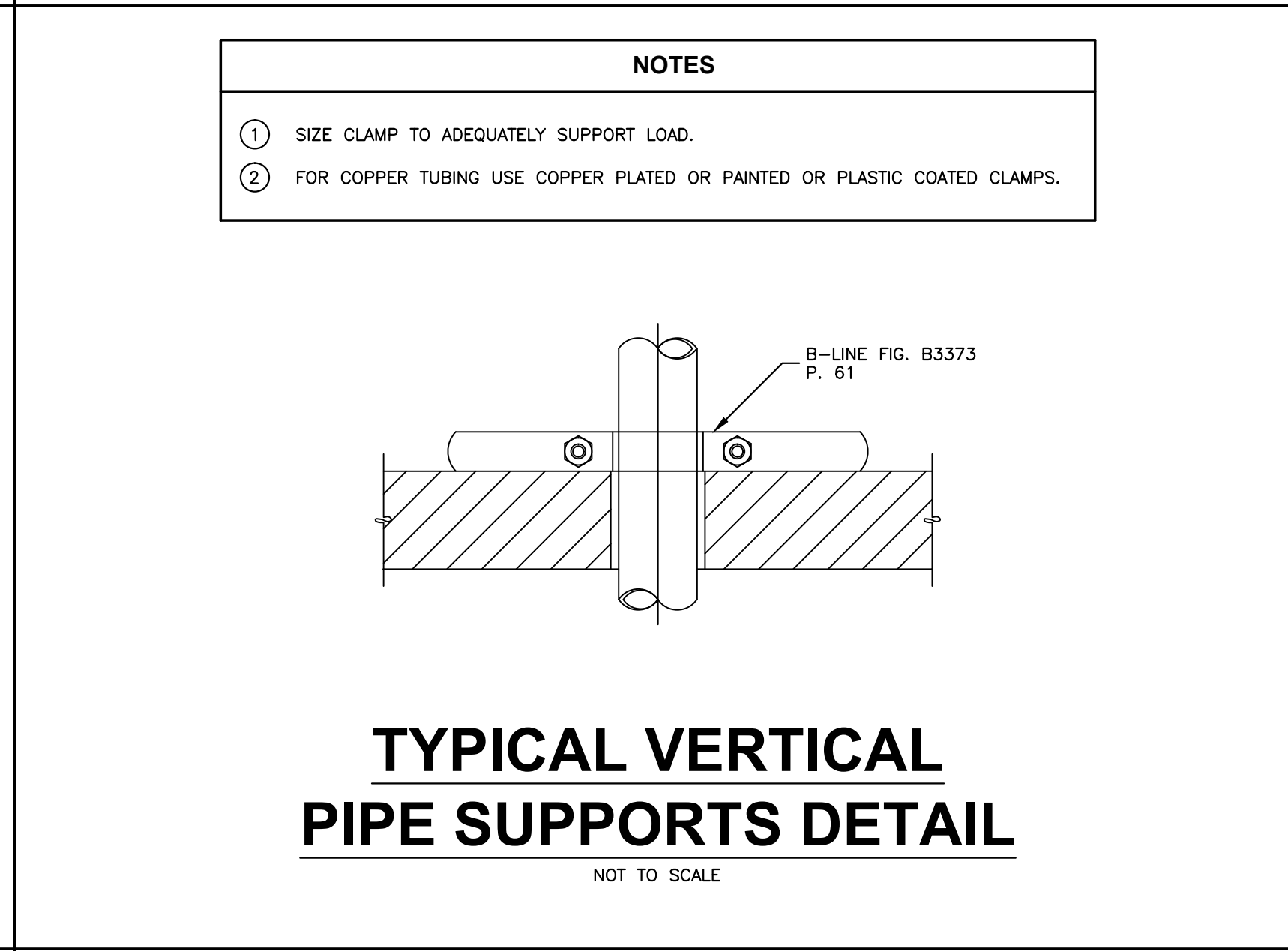
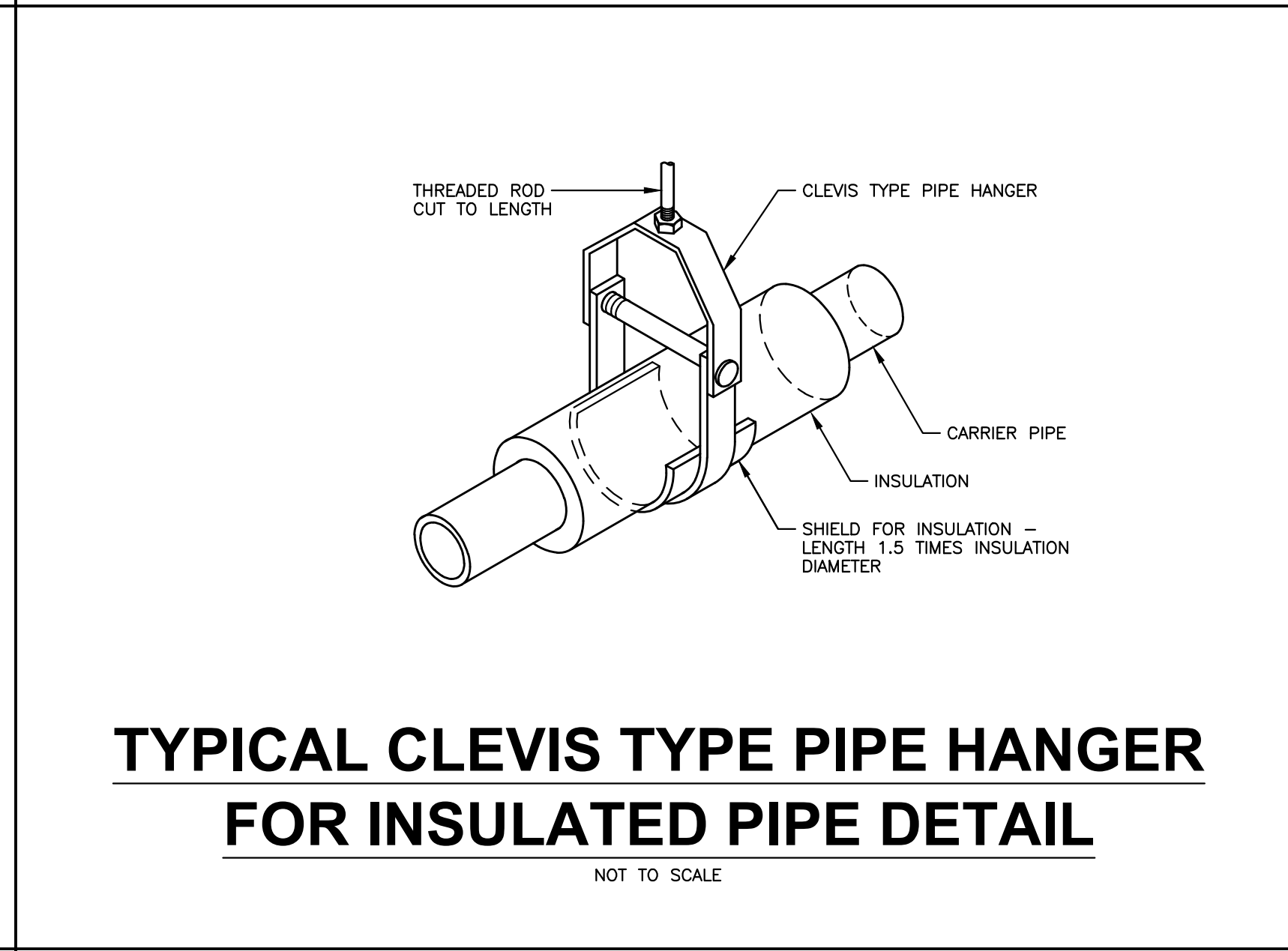
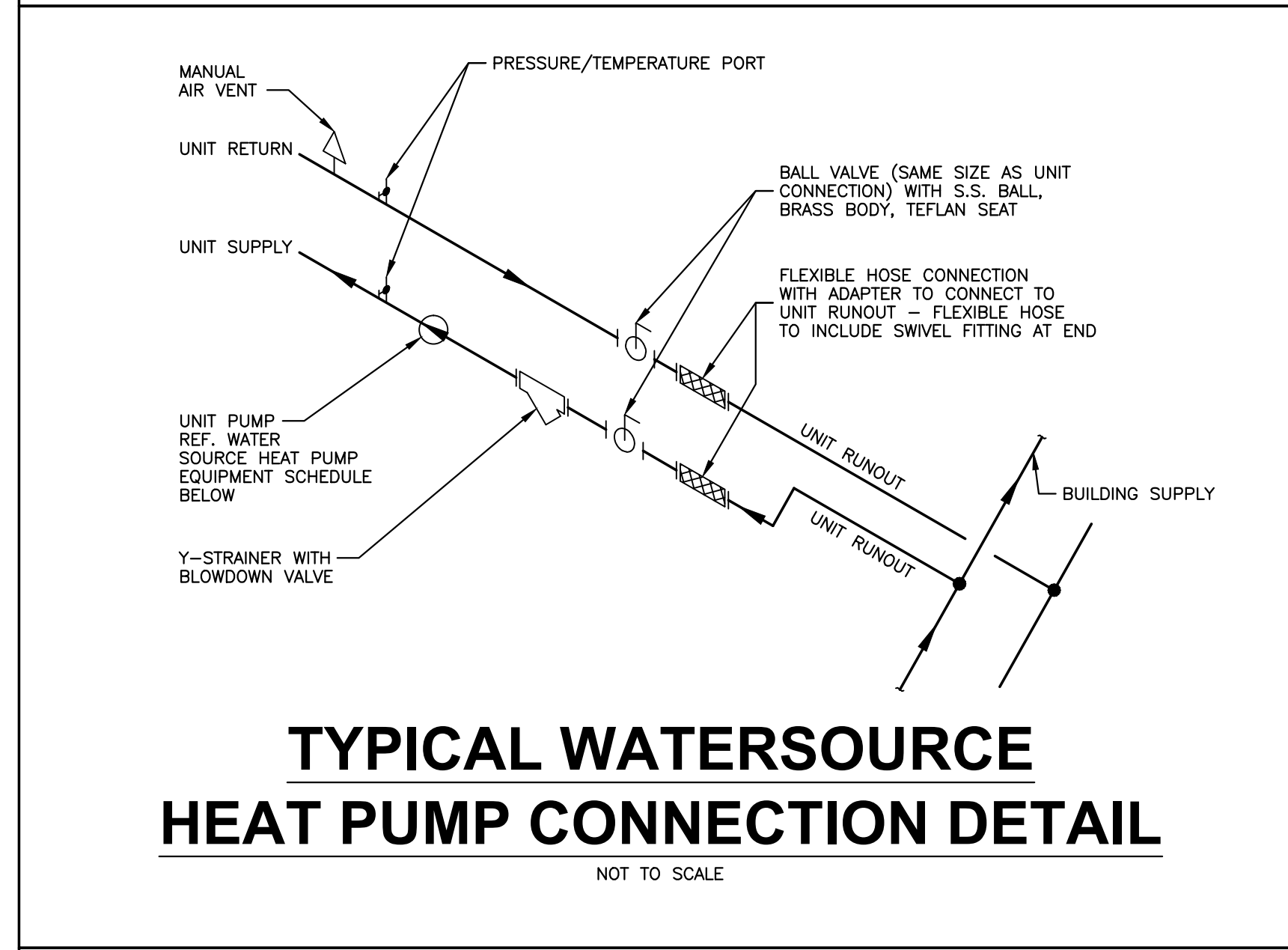
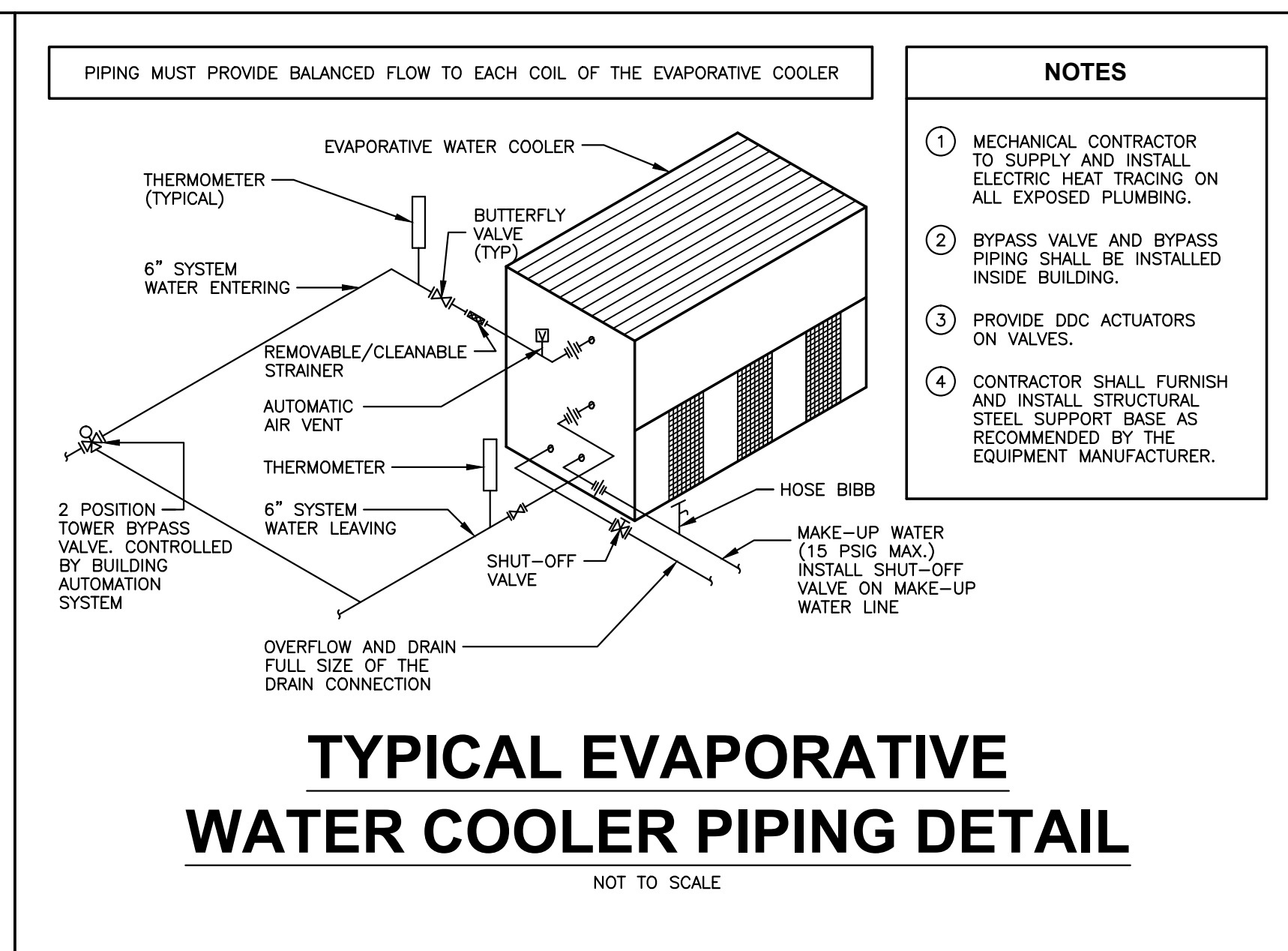
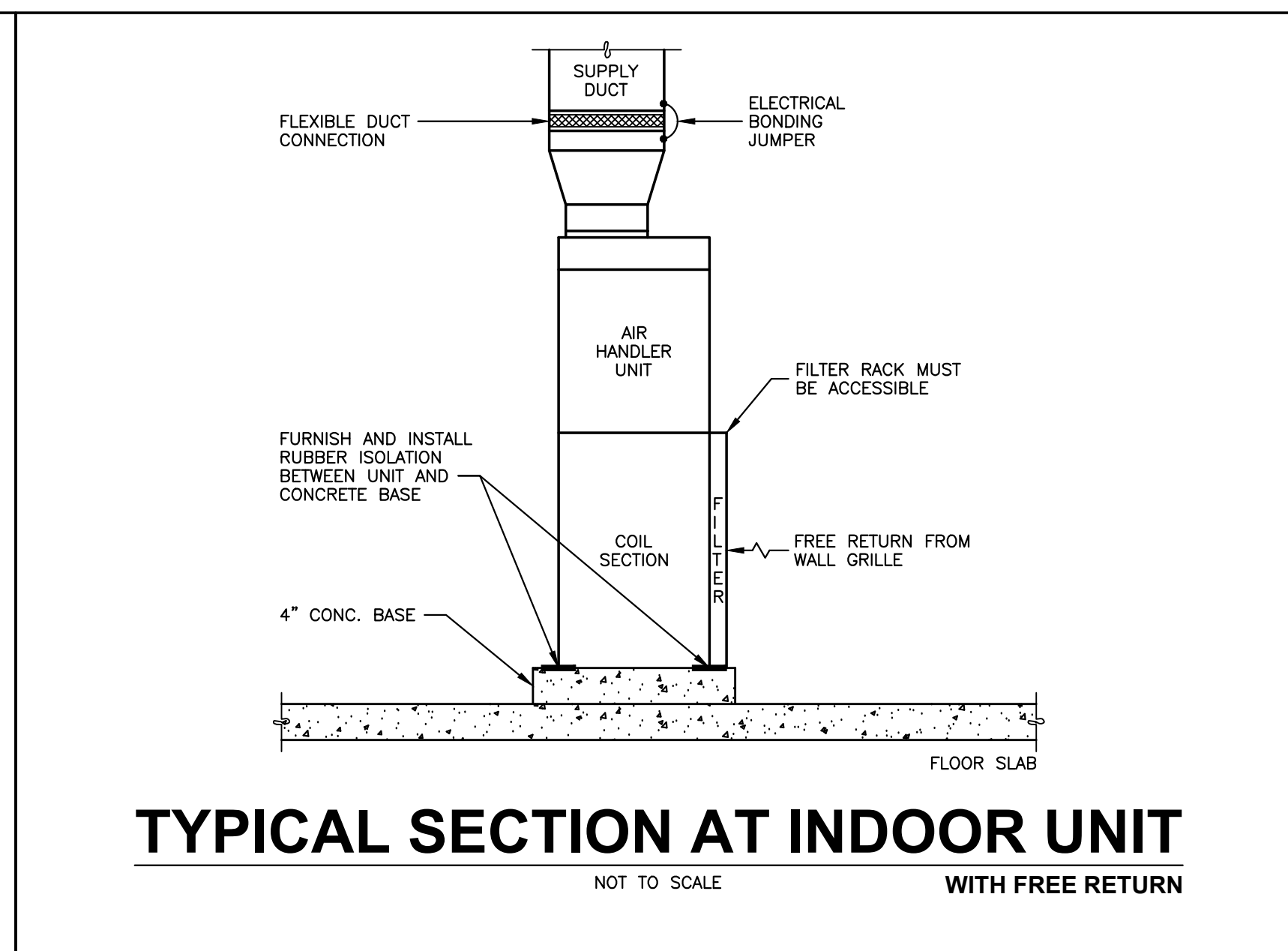
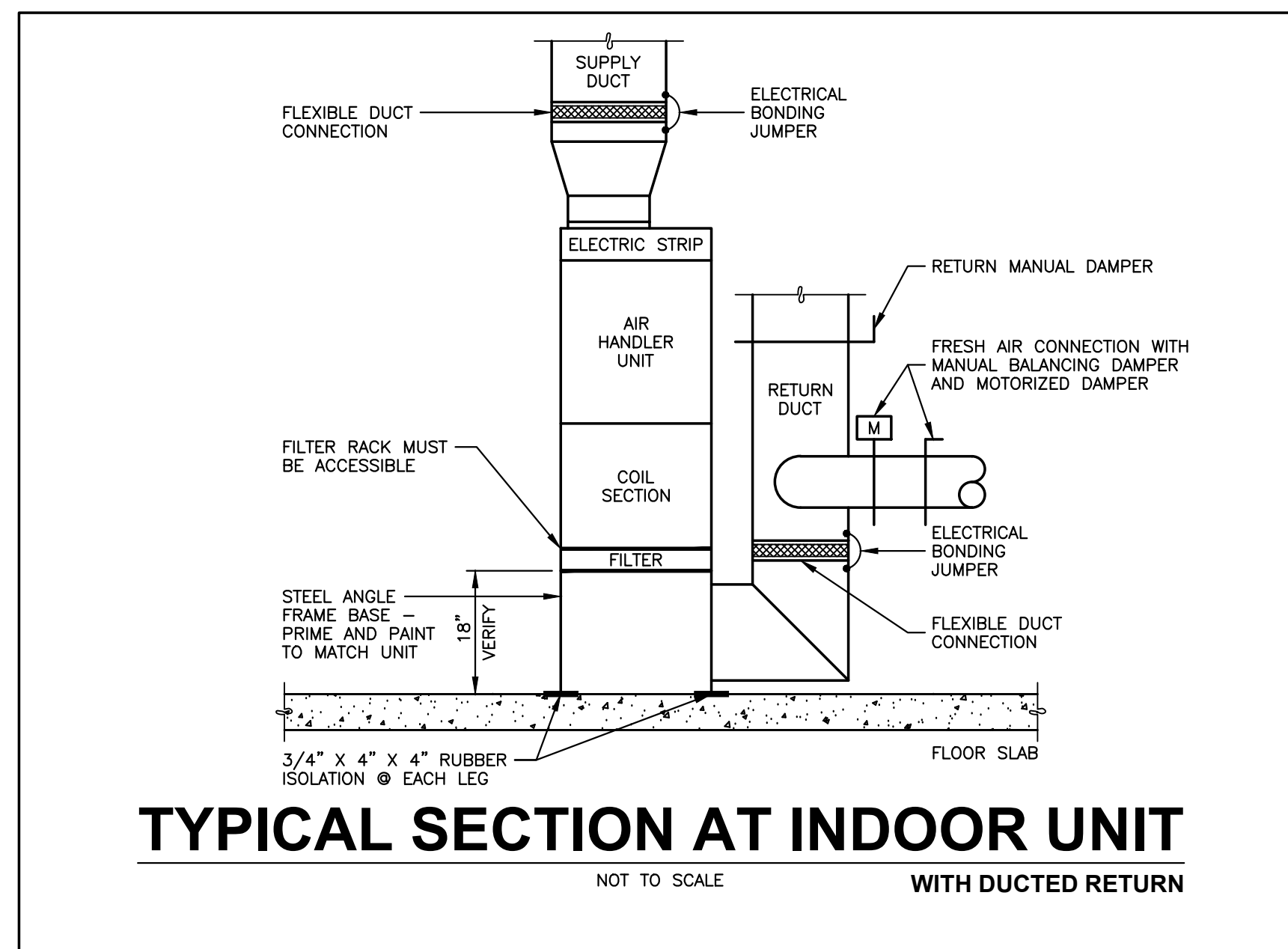
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**HVAC
DETAILS**

Sheet Number

BI.A/M2.1

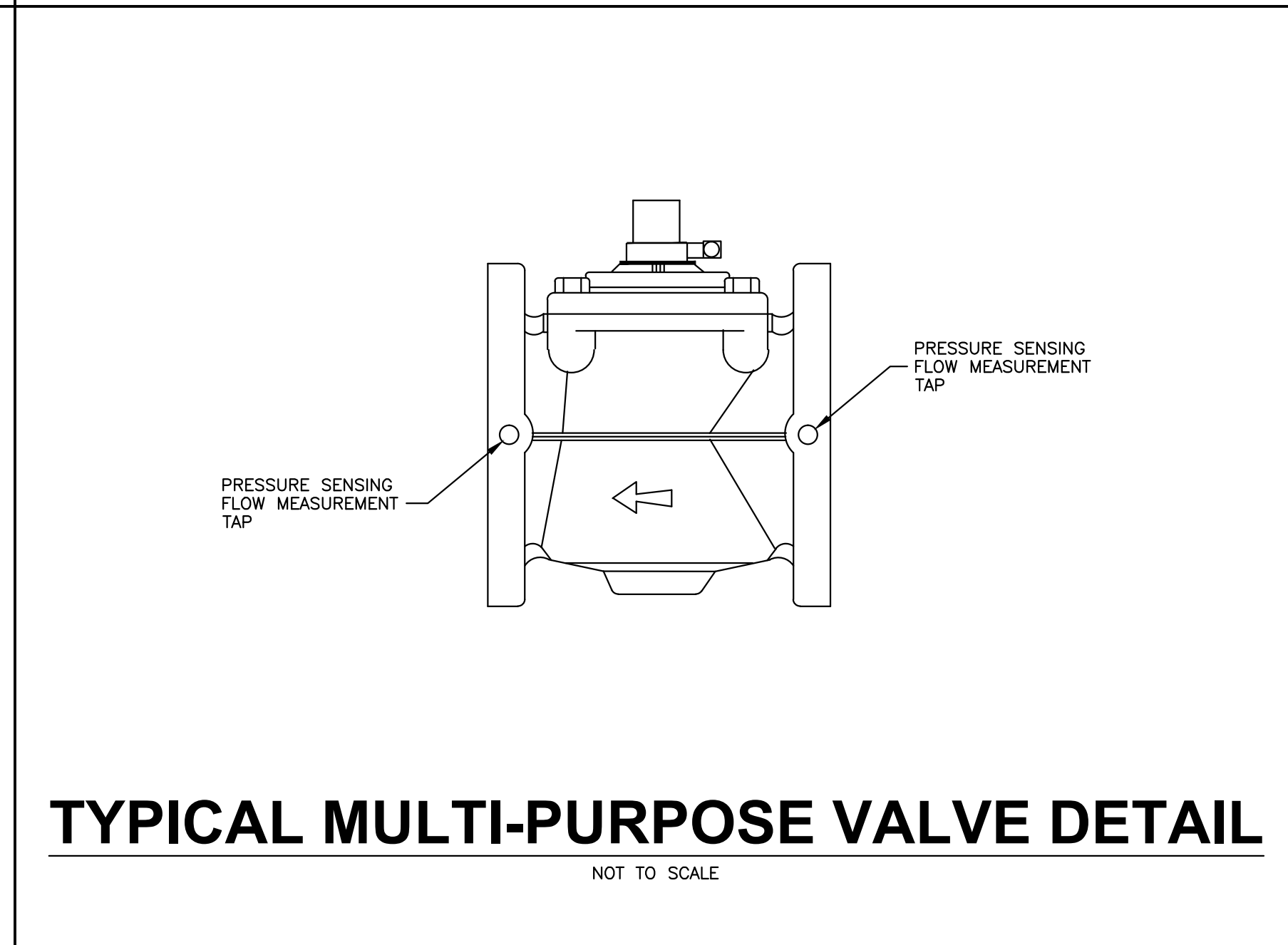
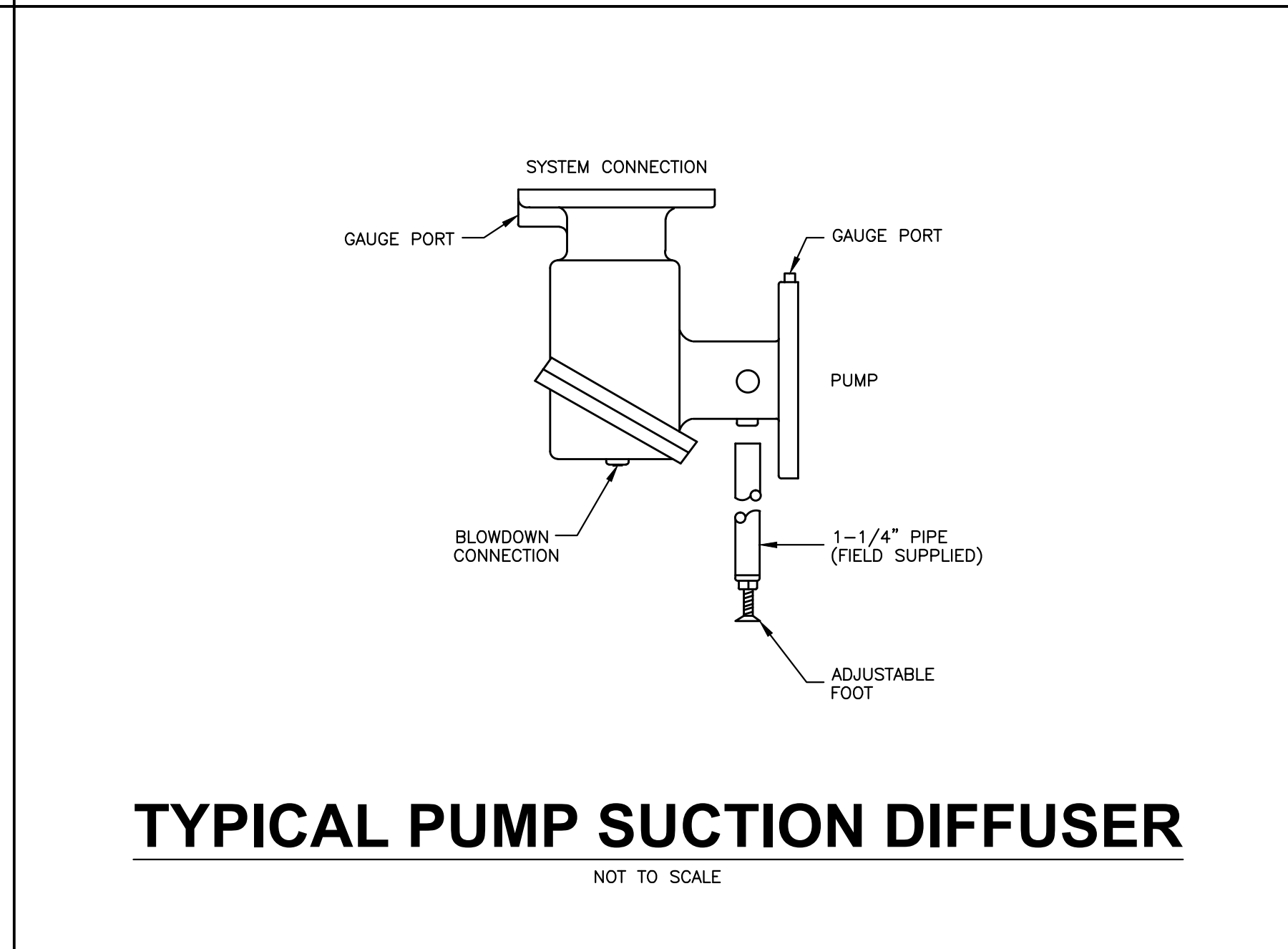
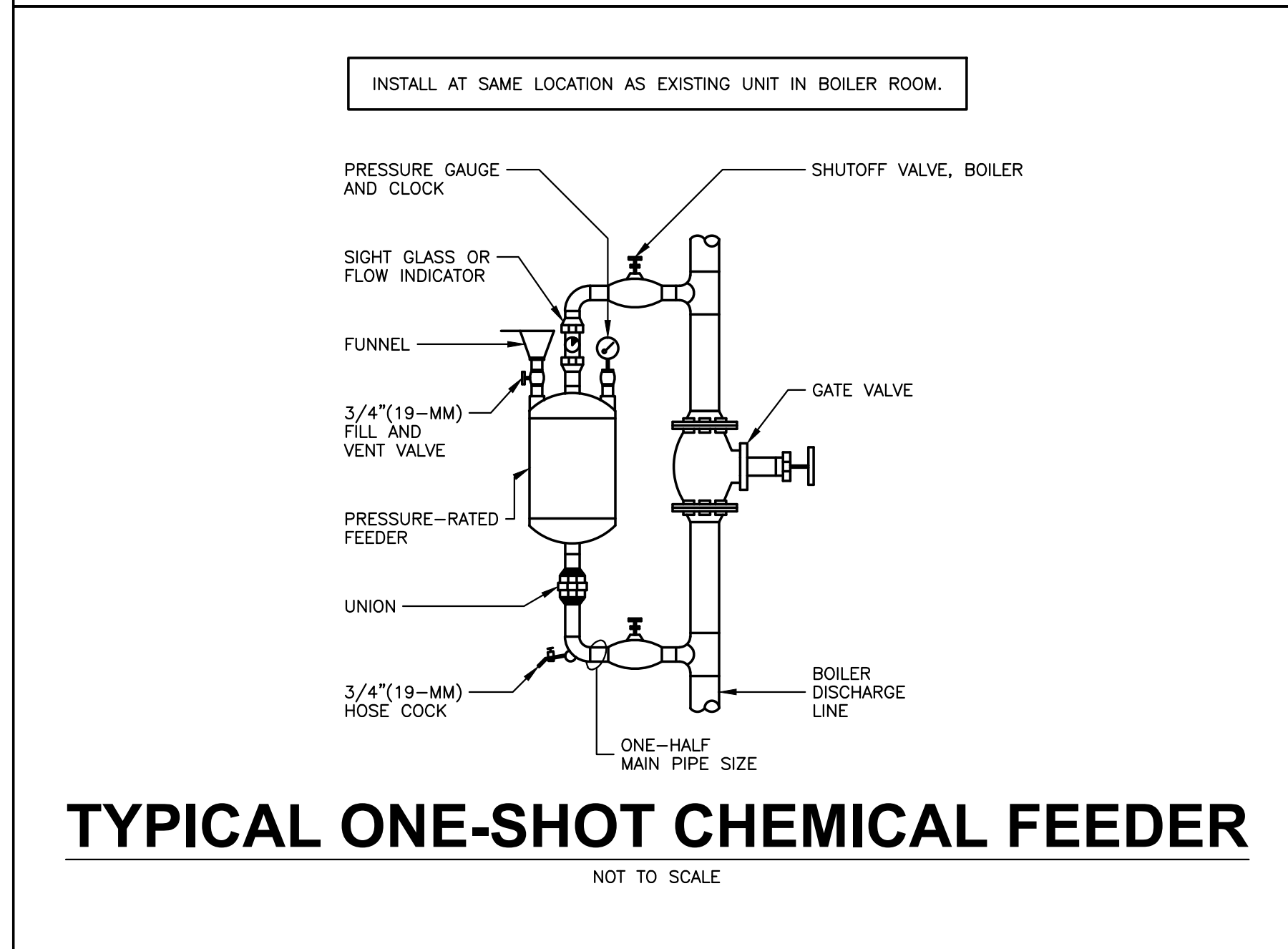
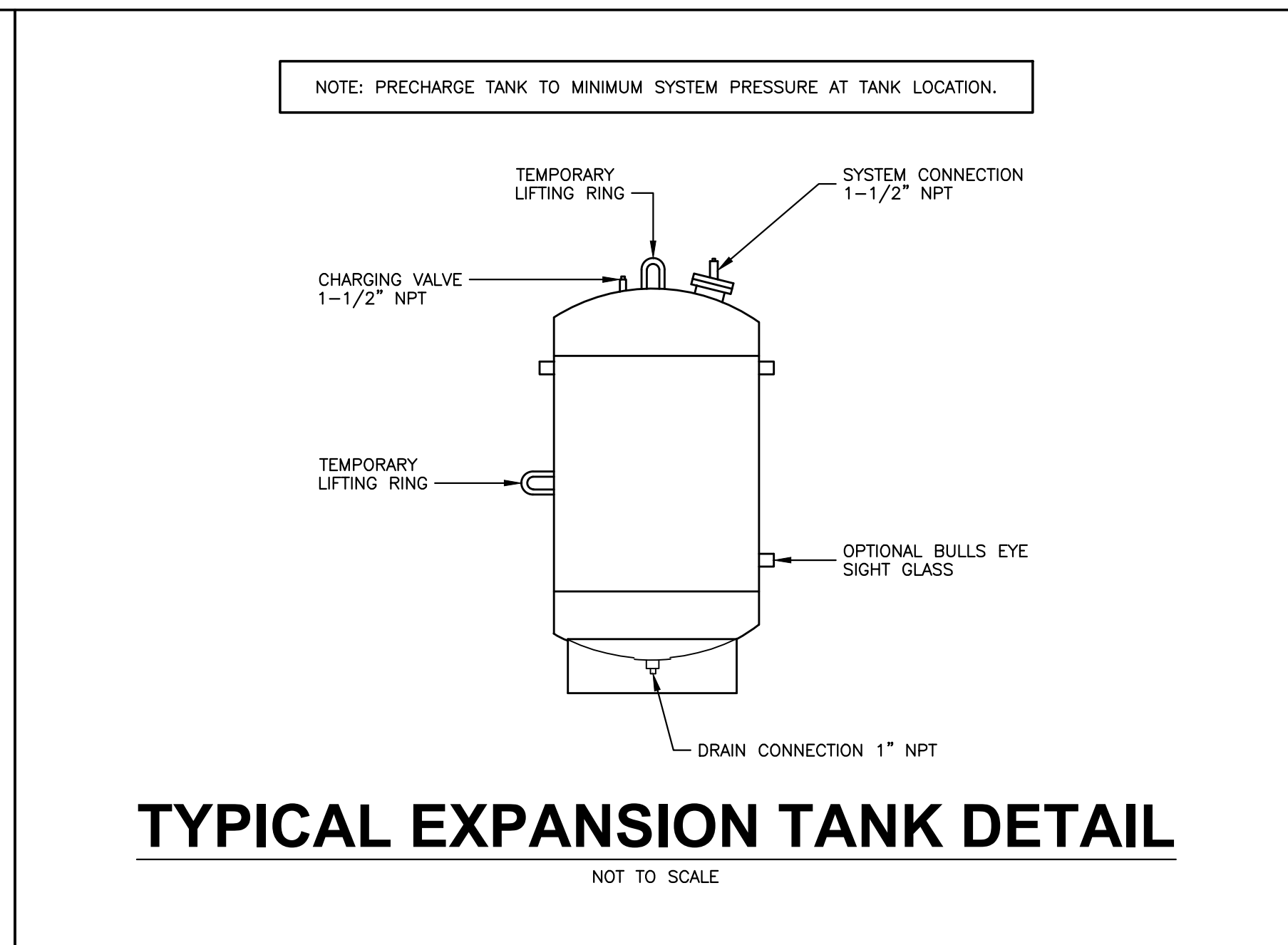
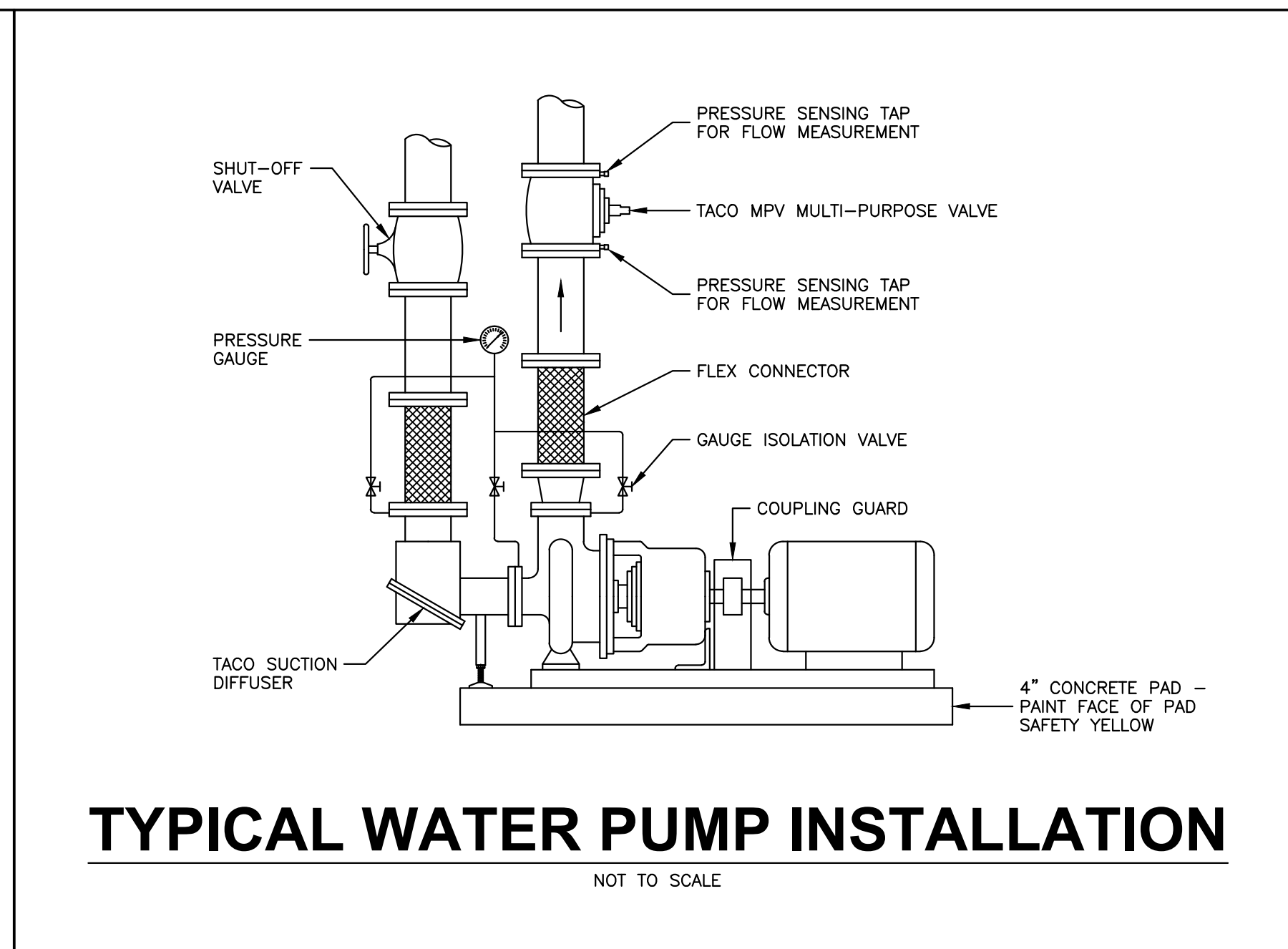
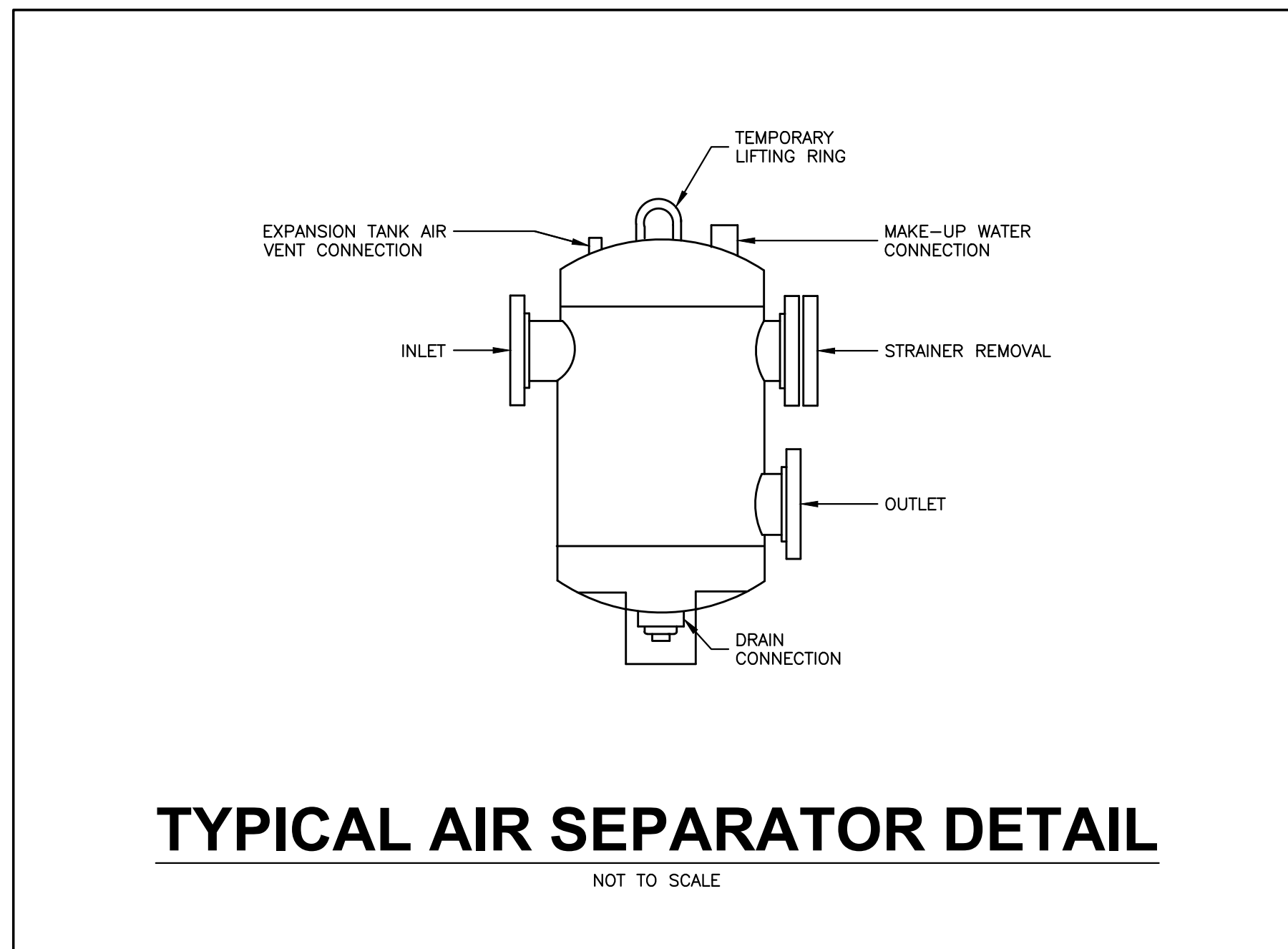


HVAC DETAILS

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

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BUILDING AUTOMATION SYSTEM INTER-TRADE RESPONSIBILITY MATRIX					
FMS = FACILITY MANAGEMENT SYSTEM/BUILDING AUTOMATION SYSTEM CONTRACTOR 23 = DIVISION 23 CONTRACTOR (PLUMBING OR HVAC) 26 = DIVISION 26 CONTRACTOR (ELECTRICAL OR FIRE ALARM CONTRACTOR)					
WORK	FURNISH	INSTALL	LOW VOLTAGE WIRE AND CONDUIT	LINE POWER AND CONDUIT	
1	DUCT SMOKE DETECTORS (SHOWN ON PLANS)	26	23	FMS	26
2	AUTOMATION DAMPERS	FMS	23	FMS	FMS
3	MANUAL VALVES, DAMPERS	23	23		
4	AUTOMATIC VALVES	FMS	23	FMS	FMS
5	EVAPORATIVE FLUID COOLER DDC CONTROLS	FMS	FMS	FMS	
6	PIPE INSERTION DEVICES AND TAPS INCLUDING THERMOWELLS FLOW AND PRESSURE STATIONS, ETC. REQUIRING DDC INTERFACE.	FMS	23	FMS	FMS
7	PIPE INSERTION DEVICES AND TAPS INCLUDING THERMOWELLS FLOW AND PRESSURE STATIONS, ETC. NOT REQUIRING DDC INTERFACE.	23	23		
8	PUMP FLOW SWITCHES	23	23	FMS	
9	WATER SOURCE HEAT PUMP CONTROLLERS	FMS	FMS	FMS	26
10	WATER SOURCE HEAT PUMP SOLENOID VALVES	23	23	FMS	FMS
11	THERMOSTATS AND HUMIDISTATS	FMS	FMS	FMS	
12	BOILER DDC CONTROLS	FMS	FMS	FMS	
13	BOILER CONTROL PACKAGE (STAGING)	FMS	FMS	FMS	26
14	WATER TREATMENT SYSTEM	23	23	23	26
15	VARIABLE FREQUENCY DRIVES	FMS	23	FMS	26
16	FMS LOW VOLTAGE AND COMMUNICATION WIRING	FMS	FMS	FMS	
17	FMS CONDUITS AND RACEWAY	FMS	FMS	FMS	
18	CONTROL RELAYS	FMS	FMS	FMS	
19	FMS NETWORK ROUTERS, BRIDGES, HUBS AND ASSOCIATED CABLING	FMS	FMS	FMS	
20	FMS NODES, EQUIPMENT, HOUSINGS, ENCLOSURES AND PANELS AND POWER FROM DIV. 26 PANELS	FMS	FMS	FMS	FMS
21	THERMOSTAT/HUMIDISTAT/CO2 DETECTOR FOR CONTROL OF FRESH AIR MOTORIZED DAMPERS	FMS	23	FMS	FMS
22	FMS SOFTWARE, FIRMWARE AND PROJECT SPECIFIC SOFTWARE CONFIGURATIONS AND DATABASE ENTRIES	FMS	FMS	FMS	
23	OCCUPANCY SENSORS	FMS	FMS	FMS	FMS
24	GAS AND WATER SUB-METERS	FMS	FMS	FMS	
25	POWER SUB-METERS (EXISTING TO REMAIN)	FMS	FMS	FMS	

① SMOKE DETECTORS MUST BE COORDINATED WITH THE FIRE ALARM SYSTEM.

② THE ABOVE MATRIX IS FURNISHED BY THE ENGINEER OF RECORD AS A GUIDE FOR THE CONTRACTOR'S USE. THE CONTRACTOR SHALL SUBMIT A RESPONSIBILITY MATRIX BASED UPON THE CONTRACTOR'S PROJECT COORDINATION AND BID PREPARATION. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FINAL MATRIX OF THE COORDINATED RESPONSIBILITIES OF THE REQUIRED TRADES WITH PROJECT SUBMITTALS AND SUB-CONTRACTORS IDENTIFIED BY NAME, ADDRESS, ETC.

- ### DDC SYSTEM NOTES
- INTERFACE ALL NEW UNITS TO EXISTING HONEYWELL BUILDING AUTOMATION SYSTEM.
 - BUILDING AUTOMATION SYSTEM JACE PANELS SHALL INCLUDE UPS BATTERY BACK-UP.
 - CONTROLLERS SHALL BE HONEYWELL SPYDER CONTROLLERS - PUL6438SR. (SEE HVAC NOTE 20 FOR ADDITIONAL INFORMATION).
 - HONEYWELL COMMUNICATING MODULES SHALL BE MODEL TR-71H (TEMP/HUMIDITY) WITH LCD (SEE HVAC NOTE 20 FOR ADDITIONAL INFORMATION).
 - RETESTING: SYSTEMS SHALL BE TESTED MULTIPLE TIMES AS NEEDED TO VERIFY PROPER OPERATION.
 - SEASONAL TEST AND BALANCE IS REQUIRED. SEASONAL TESTING SHALL BE DONE IN CONJUNCTION WITH TEST AND BALANCE AGENCY, MECHANICAL CONTRACTOR, AND CONTROLS CONTRACTOR. FULL COORDINATION IS REQUIRED.
 - ALL WARRANTIES SHALL BEGIN AT THE DATE OF FINAL ACCEPTANCE OR BENEFICIAL OCCUPANCY (WHICHEVER COMES FIRST).
 - WHERE SHOWN ON PLANS, ADD OCCUPANCY SENSORS AND INTERFACE TO THE BUILDING AUTOMATION SYSTEM AND EXHAUST FANS TO PLACE EXHAUST FAN IN OCCUPIED/UNOCCUPIED MODE. NEW OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY WATTSTOPPER MODEL DT-300 SERIES. SENSORS SHALL INCLUDE ISOLATED RELAY CONTACTS.
 - UPGRADE THE EXISTING BUILDING AUTOMATION CONTROL SYSTEM TO THE HONEYWELL PLATFORM VERSION THAT IS CURRENTLY OPERATING ON THE WEB-SUPERVISOR OR A NEWER VERSION OF THE SYSTEM INCORPORATING THE NIAGARA FRAMEWORK.
 - REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - LABEL ALL CONTROL DEVICES TO MATCH CONTROL DRAWINGS.
 - ALL NEW FRESH AIR MOTORIZED DAMPERS SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM WITH OCCUPANCY SCHEDULE.
 - ALL CONTROL COMPONENTS INCLUDING SENSORS, DAMPERS, ETC. SHALL BE LABELED TO MATCH CONTROL DRAWINGS.
 - ALL I.P. ADDRESSES SHALL BE LABELED.
 - ALL CONTROL PANELS SHALL BE LABELED.
 - LAMINATED CONTROL DRAWINGS SHALL BE INSTALLED AT CONTROL JACE PANELS.
 - ALL JACE CONTROL PANELS SHALL INCLUDE BATTERY BACKUP UPS.
 - COORDINATE DDC CONTROLLER TERMINAL ASSIGNMENTS WITH AANG DDC STANDARDS AND PRACTICES.
 - DDC CONTROLS AS-BUILT DRAWINGS SHALL INCLUDE COLOR CODES FOR ALL MULTI-CONDUCTOR CABLES.
 - ALL CONTROL DEVICES SHOWN ON THE CONTROL DIAGRAMS SHALL BE FURNISHED BY THE FMS CONTRACTOR UNLESS OTHERWISE NOTED OR SPECIFIED.
 - ALL COMPONENTS REQUIRED FOR THE SEQUENCES OF OPERATION, SHOWN AND/OR DESCRIBED ON THE CONTROL DIAGRAMS AND/OR SPECIFICATIONS, OR AS REQUIRED FOR A PROPERLY OPERATING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE FMS CONTRACTOR UNLESS OTHERWISE NOTED.
 - FMS CONTRACTOR IS RESPONSIBLE TO FURNISH, INSTALL, AND WIRE ALL COMPONENTS REQUIRED FOR INTEGRATION OF INFORMATION SHOWN TO BE ACCESSED BY THE FMS FROM OTHER SYSTEMS AND EQUIPMENT UNLESS OTHERWISE BE NOTED OR SPECIFIED.
 - ALL POWER WIRING AND TRANSFORMERS FOR SENSORS, ACTUATORS, AND OTHER CONTROL COMPONENTS AS REQUIRED FOR THE FMS AND/OR DDC SYSTEMS TO FUNCTION PROPERLY, SHALL BE FURNISHED AND INSTALLED BY THE FMS CONTRACTOR UNLESS OTHERWISE SHOWN, NOTED, OR SPECIFIED.
 - ALL POWER WIRING FOR SENSORS, ACTUATORS, AND OTHER DEVICES SHALL BE FROM THE DDC PANEL OR THE FMS/BAS PANEL OF THE ASSOCIATED SYSTEM.
 - ALL CONTROL INTERLOCK, AND POWER WIRING SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATION, LOCAL, STATE, AND NATIONAL CODES. RACEWAY SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATIONS.
 - ALL CONTROL POINTS SHOWN ON THE CONTROL DIAGRAMS SHALL BE PROVIDED AND INTEGRATED INTO A FMS/BAS SYSTEM GRAPHIC REPRESENTATIVE OF THE CONTROL DIAGRAMS.
 - ALL CONTROL BANDS, SETPOINTS, SETPOINT LIMITS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES, ALARM LIMITS, AND OTHER PARAMETERS SHALL BE ADJUSTABLE FROM THE FMS/BAS.
 - ALL SETPOINTS SHALL BE ADJUSTABLE FROM THE FMS/BAS SYSTEM GRAPHIC(S).
 - SPACE SETPOINTS SHALL BE ADJUSTABLE FROM THE ROOM SENSOR UNLESS OTHERWISE SHOWN ON DRAWINGS OR SPECIFIED.
 - THE FMS/BAS SYSTEM GRAPHICS SHALL BE LINKED WITH ASSOCIATED BUILDING FLOOR PLANS FROM THE SPACE SENSOR OR AREA SERVED.
 - WHERE ONE SYSTEM IS ASSOCIATED WITH ANOTHER SYSTEM, THE SYSTEM GRAPHIC SHALL BE LINKED TO THE ASSOCIATED GRAPHIC AS WELL AS THE BUILDING FLOOR PLAN GRAPHIC. EXAMPLE -- A WATER SOURCE/GEOTHERMAL HEAT PUMP UNIT SYSTEM GRAPHIC SHALL BE LINKED TO THE LOOP WATER SYSTEM GRAPHIC IN ADDITION TO BOTH BEING LINKED TO THE BUILDING FLOOR PLAN.
 - THE BUILDING FLOOR PLAN SHALL DISPLAY THE SPACE TEMPERATURE AT EACH SPACE SENSOR LOCATION WITH AREA SERVED DISPLAYED IN SEPARATE COLORS BASED ON THE CONDITION OF THE ZONE. EXAMPLE -- ALARM, NORMAL, HIGH OR LOW TEMPERATURE, HIGH OR LOW HUMIDITY, ETC.
 - ALL BUILDING FLOOR PLANS AND SYSTEM GRAPHICS SHALL DISPLAY OUTSIDE AIR TEMPERATURE AND HUMIDITY.
 - THE FLOOR PLAN GRAPHICS SHALL BE LINKED TO A BUILDING GRAPHIC WITH A DIGITAL PHOTOGRAPH BACKGROUND OF THE ACTUAL BUILDING. DURING CONSTRUCTION A TEMPORARY GRAPHICS MAY BE USED THAT IS REPRESENTATIVE OF THE BUILDING.
 - ALL GRAPHICS SHALL BE SUBMITTED IN COLOR WITH THE FMS/BAS SUBMITTAL.

- ### DDC SYSTEM NOTES (BID ALTERNATE A2)
- BUILDING AUTOMATION CONTRACTOR SHALL INSTALL WATER SUB-METER AND GAS SUB-METER FOR INTERFACE WITH THE BUILDING AUTOMATION SYSTEM TO OBTAIN TOTAL ENERGY ON THE BUILDING. INSTALLATION SHALL INCLUDE TRENDDING, CONTROLS, AND GRAPHICS.
 - GAS PRESSURE TO THE BUILDING SHALL BE MEASURED BY LOCAL UTILITY. COORDINATE SUB-METER INSTALLATION WITH LOCAL OFFICE.
 - INSTALL WATER SUB-METER AT EXISTING WATER METER. FIELD VERIFY EXACT LOCATION.
 - THE INSTALLATION OF GAS AND WATER SUB-METERS SHALL INCLUDE METER BYPASS. BYPASS PIPING SHALL BE FULL SIZE OF PIPE MAIN AND SHALL INCLUDE ISOLATION VALVES.

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

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FMTC BUILDING
1021 HVAC
RESTORATION
ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

CONSTRUCTION DOCUMENTS

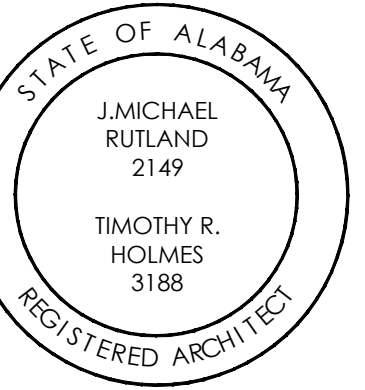
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HVAC DETAILS

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**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

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**BASEMENT AND
FIRST FLOOR
HVAC
DEMOLITION
PLAN**

Sheet Number

BI.A/M3.1

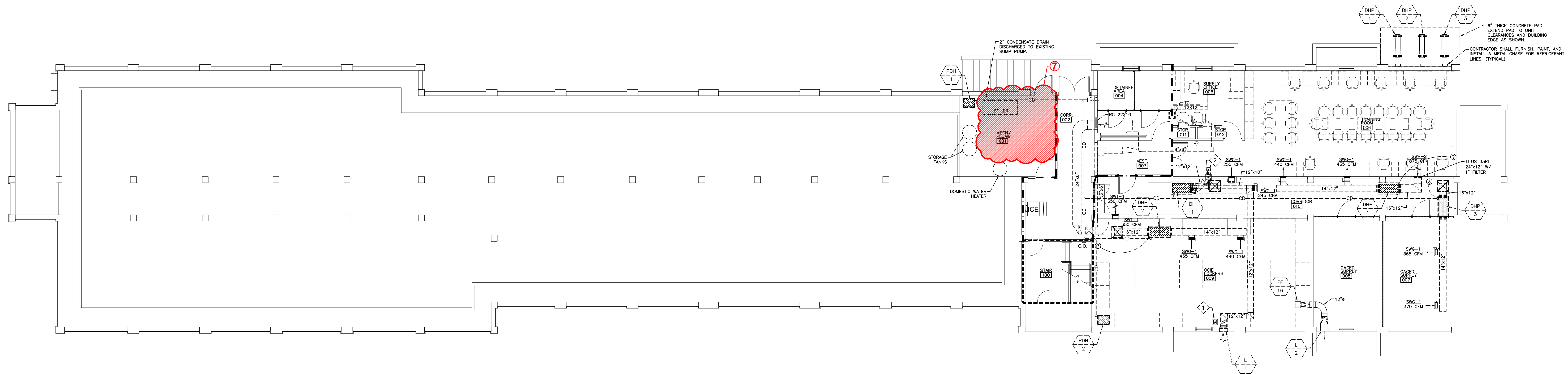
HVAC DEMOLITION NOTES

- ① REMOVE EXISTING SUPPLY DUCT INSIDE VERTICAL CHASE TO ACCOMMODATE INSTALLATION OF NEW AIR HANDLING UNIT AND PIPING.
- ② REMOVE EXISTING THERMOSTAT AND CONTROL WIRING.
- ③ PATCH/REPAIR FLOOR, CEILING, AND WALLS TO MATCH EXISTING. INSTALL NEW CONCRETE SLAB IN CHASE TO SUPPORT NEW EQUIPMENT.
- ④ REMOVE EXISTING HOT WATER UNIT HEATER, THERMOSTAT, PIPING, ETC.
- ⑤ REMOVE EXISTING AIR HANDLER, PIPING, CONTROLS, THERMOSTAT, DUCT, ETC. AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT. CAP ALL ABANDONED PIPING AND DUCT, WATER AND AIR TIGHT.
- ⑥ REMOVE AND REPLACE PORTIONS OF EXISTING DUCT. INSTALL NEW FIRE DAMPERS AT FLOOR PENETRATIONS OF THE NEW DUCT.
- ⑦ REMOVE EXISTING BOILER, PUMPS, EXPANSION TANKS, AIR SEPARATOR, PIPING, ETC. PATCH/REPAIR ALL EXISTING OPENINGS/SURFACES TO MATCH EXISTING FINISHES.

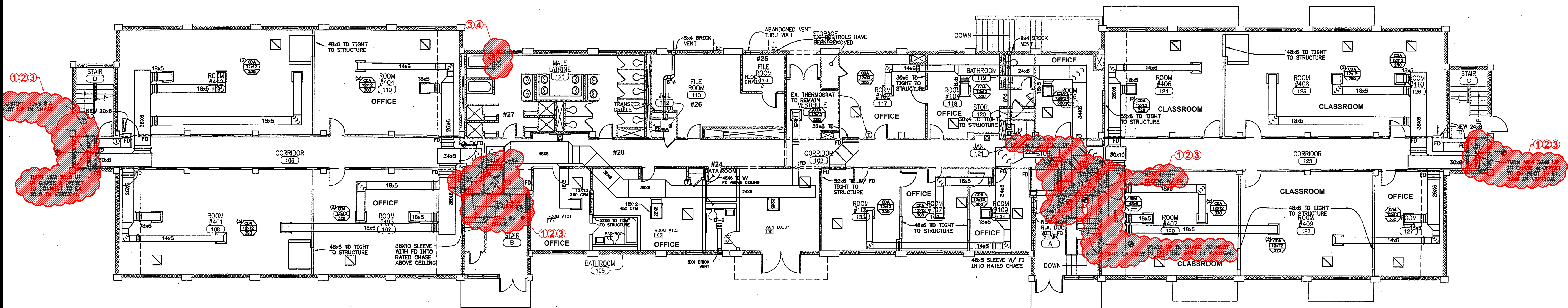
VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER

GENERAL:

- REMOVE ALL ABANDONED PIPING, CONDUIT, ELECTRICAL, ETC. PATCH/REPAIR ALL HOLES, ETC. TO MATCH EXISTING FINISHES
- VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
- REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
- PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
- CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS PRIOR TO STARTING WORK.

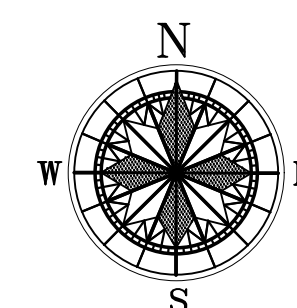


BASEMENT HVAC DEMOLITION PLAN



FIRST FLOOR HVAC DEMOLITION PLAN

EXISTING CONDITIONS DRAWING IS FOR REFERENCE PURPOSES ONLY. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.



BASEMENT AND FIRST FLOOR HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

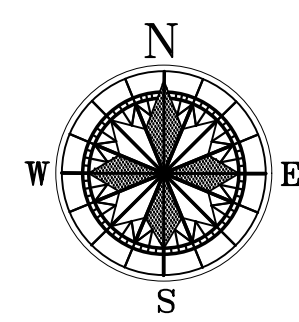
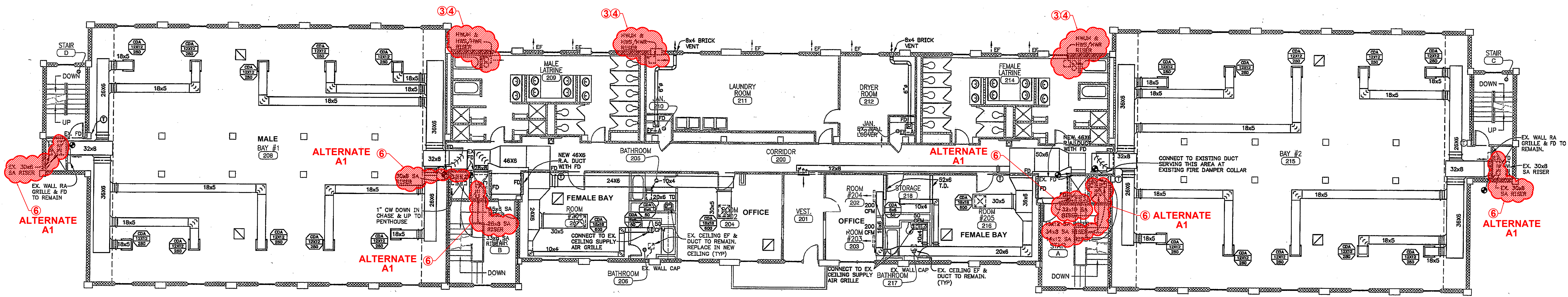
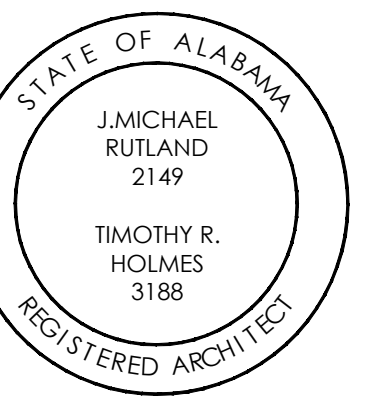
Randall Whorton
RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

DATE 03-25-2024

25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36805

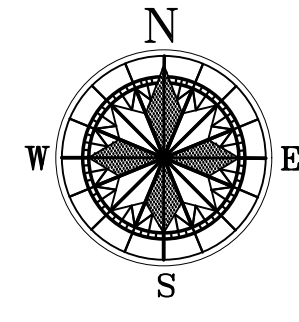
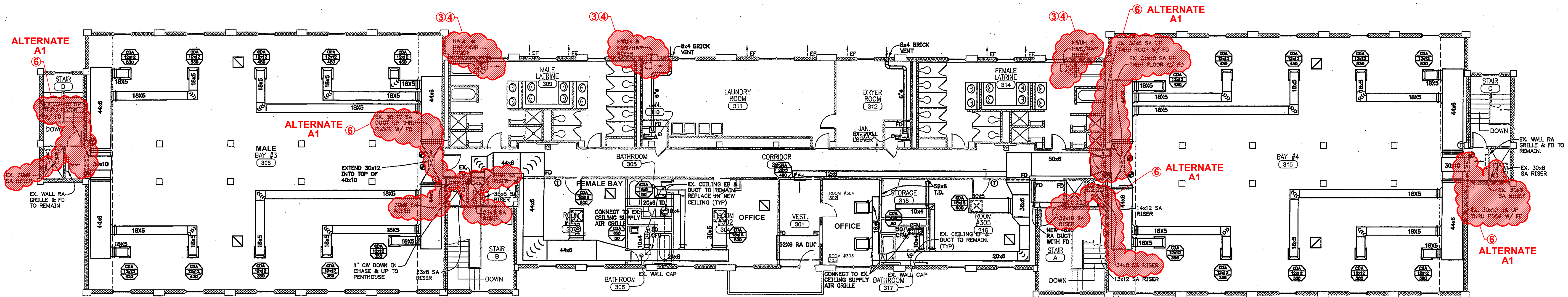


WHORTON ENGINEERING PROJECT NO. 23169



SECOND FLOOR HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



THIRD FLOOR HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

HVAC DEMOLITION NOTES

- ① REMOVE EXISTING SUPPLY DUCT INSIDE VERTICAL CHASE TO ACCOMMODATE INSTALLATION OF NEW AIR HANDLING UNIT AND PIPING.
- ② REMOVE EXISTING THERMOSTAT AND CONTROL WIRING.
- ③ PATCH/REPAIR FLOOR, CEILING, AND WALLS TO MATCH EXISTING. INSTALL NEW CONCRETE SLAB IN CHASE TO SUPPORT NEW EQUIPMENT.
- ④ REMOVE EXISTING HOT WATER UNIT HEATER, THERMOSTAT, PIPING, ETC.
- ⑤ REMOVE EXISTING AIR HANDLER, PIPING, CONTROLS, THERMOSTAT, DUCT, ETC. AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT. CAP ALL ABANDONED PIPING AND DUCT, WATER AND AIR TIGHT.
- ⑥ REMOVE AND REPLACE PORTIONS OF EXISTING DUCT. INSTALL NEW FIRE DAMPERS AT FLOOR PENETRATIONS OF THE NEW DUCT.
- ⑦ REMOVE EXISTING BOILER, PUMPS, EXPANSION TANKS, AIR SEPARATOR, PIPING, ETC. PATCH/REPAIR ALL EXISTING OPENINGS/SURFACES TO MATCH EXISTING FINISHES.

VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER

GENERAL:

- REMOVE ALL ABANDONED PIPING, CONDUIT, ELECTRICAL, ETC. PATCH/REPAIR ALL HOLES, ETC. TO MATCH EXISTING FINISHES
- VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
- REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
- PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
- CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS PRIOR TO STARTING WORK.

EXISTING CONDITIONS DRAWING IS FOR REFERENCE PURPOSES ONLY. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.

CONSTRUCTION DOCUMENTS

Project Number: 23-1337
 Date: 26 MARCH 2024
 Revisions:

Sheet Description

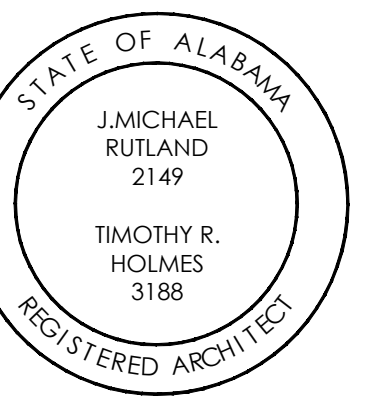
SECOND & THIRD FLOOR HVAC DEMOLITION PLAN

Sheet Number

BI.A/M3.2

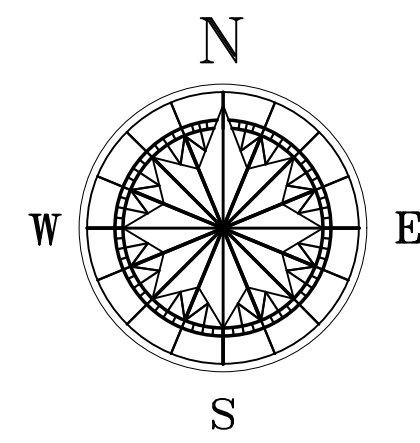
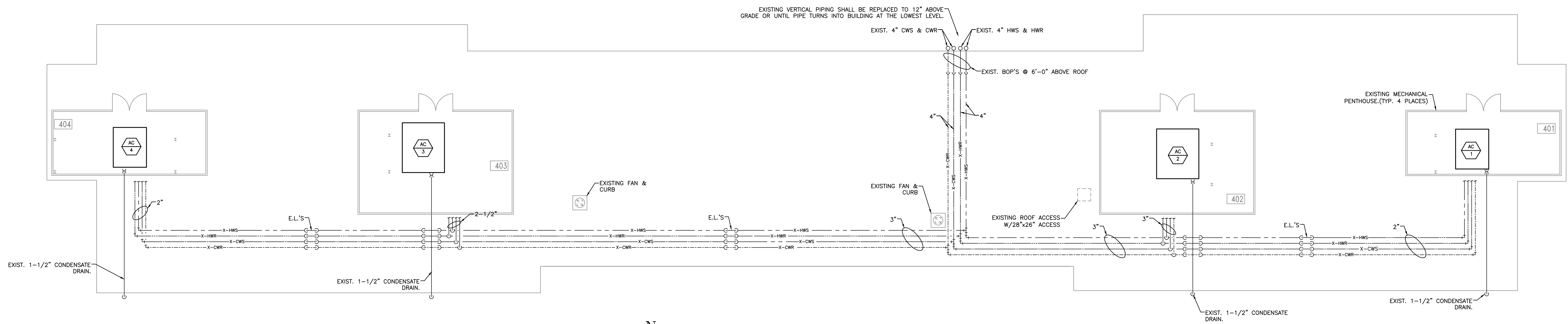
WHORTON ENGINEERING, INC.
 HVAC - PLUMBING - PROCESS CONTROL
 Randall Whorton
 RANDALL WHORTON, P.E.
 PHONE: (256) 820-9897

DATE: 03-25-2024
 25 SUMMERHALL GATE ROAD
 ANNISTON, ALABAMA 36805



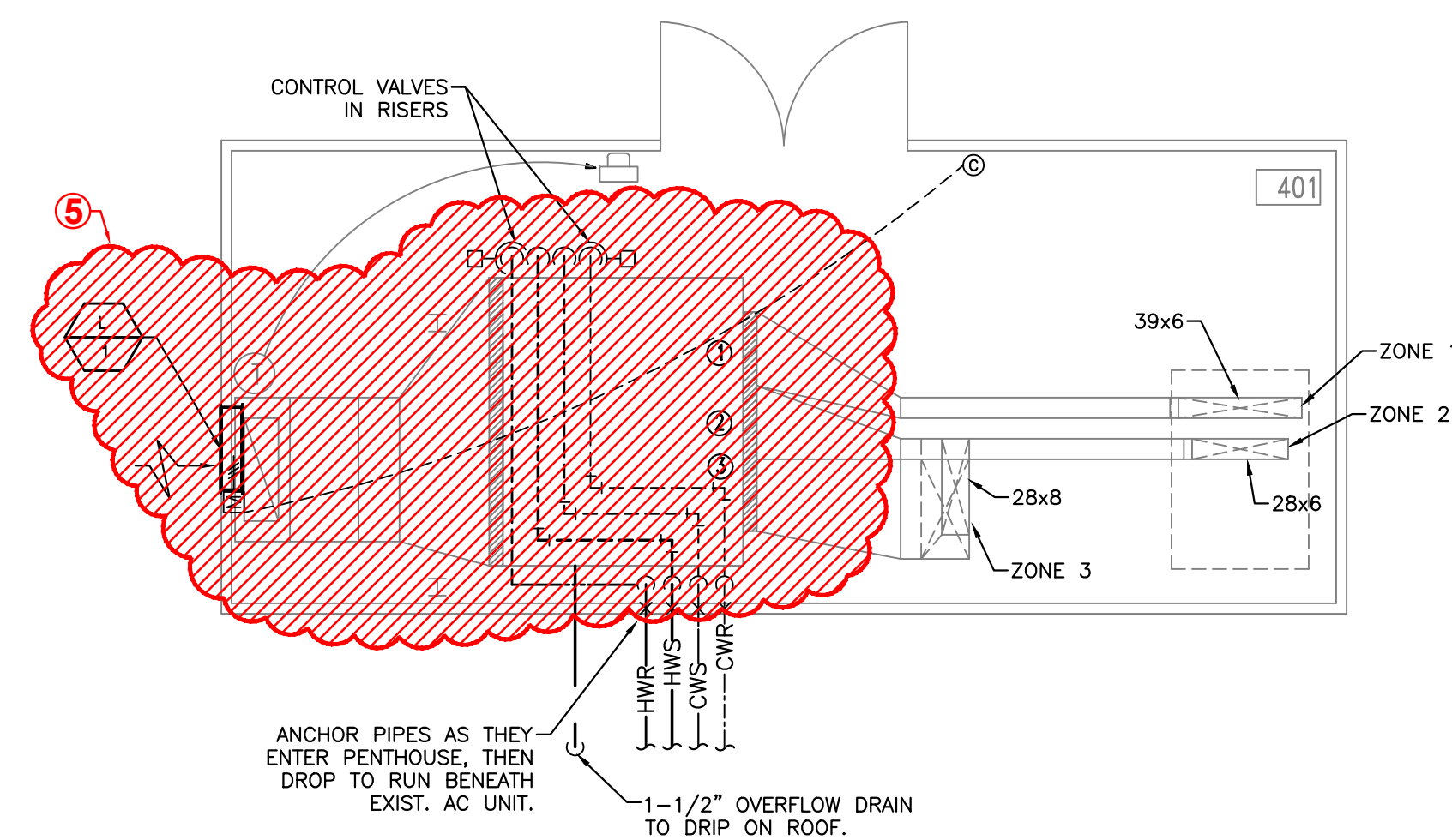
**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



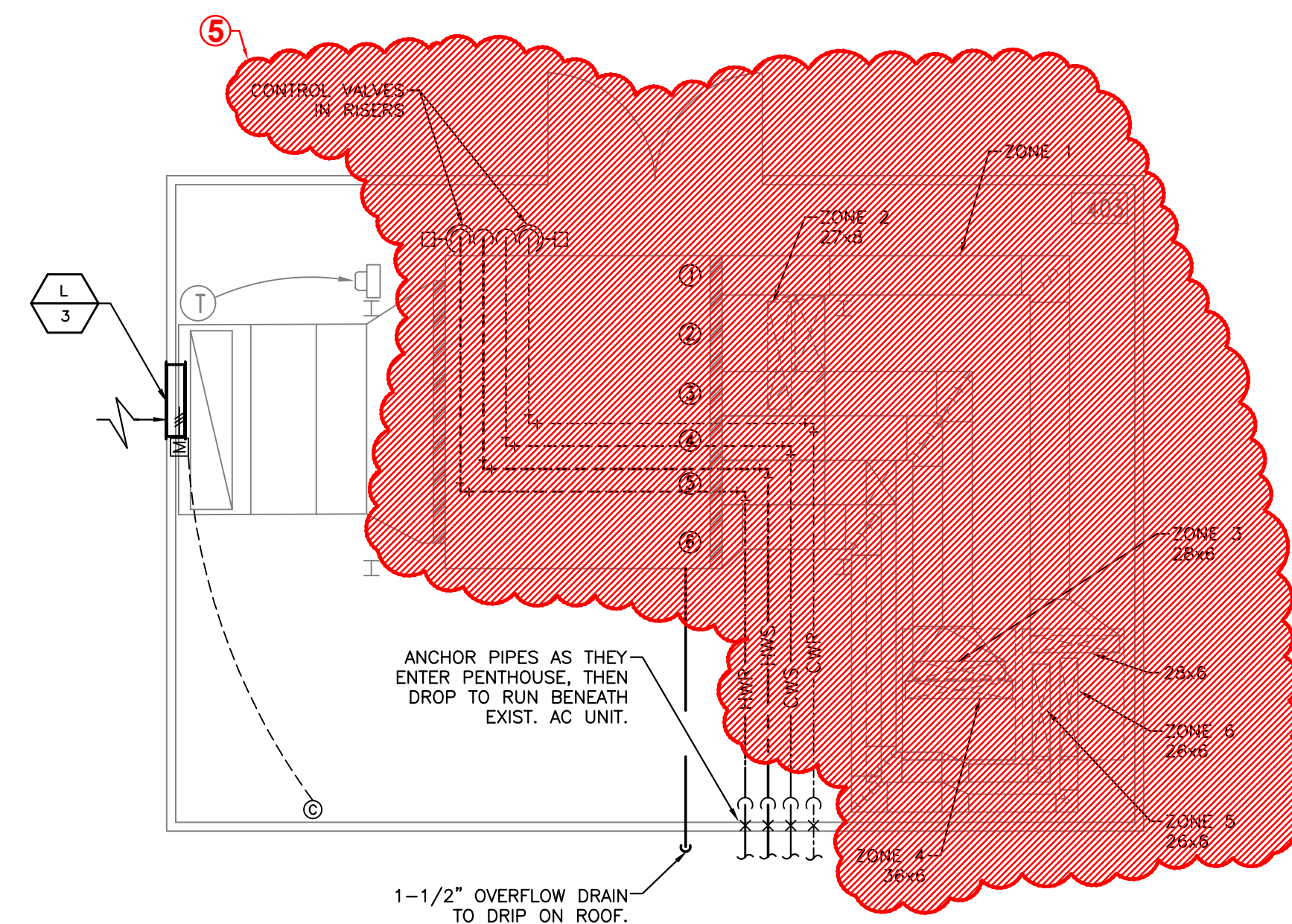
ROOF HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



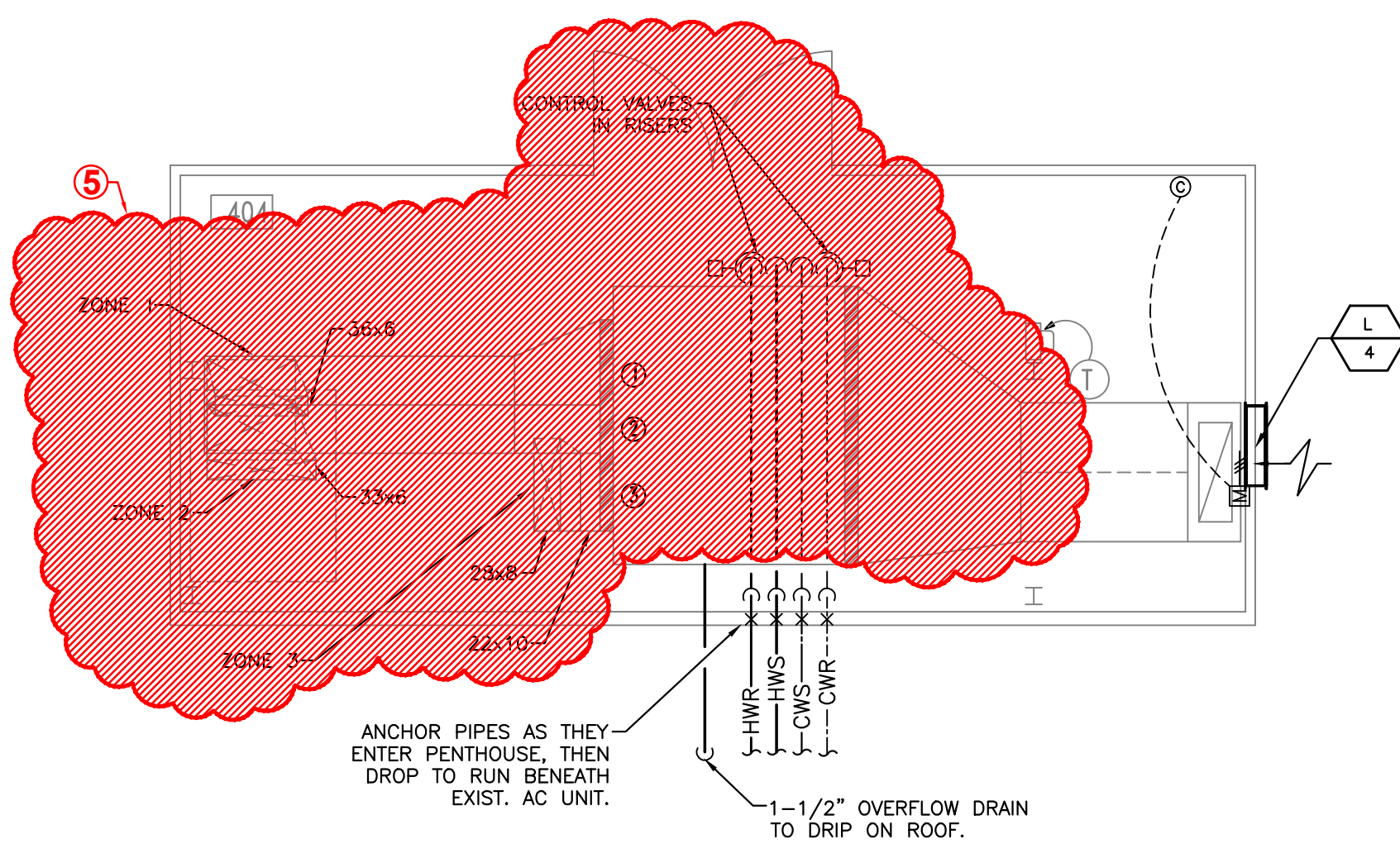
ENLARGED AC-1 LAYOUT

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



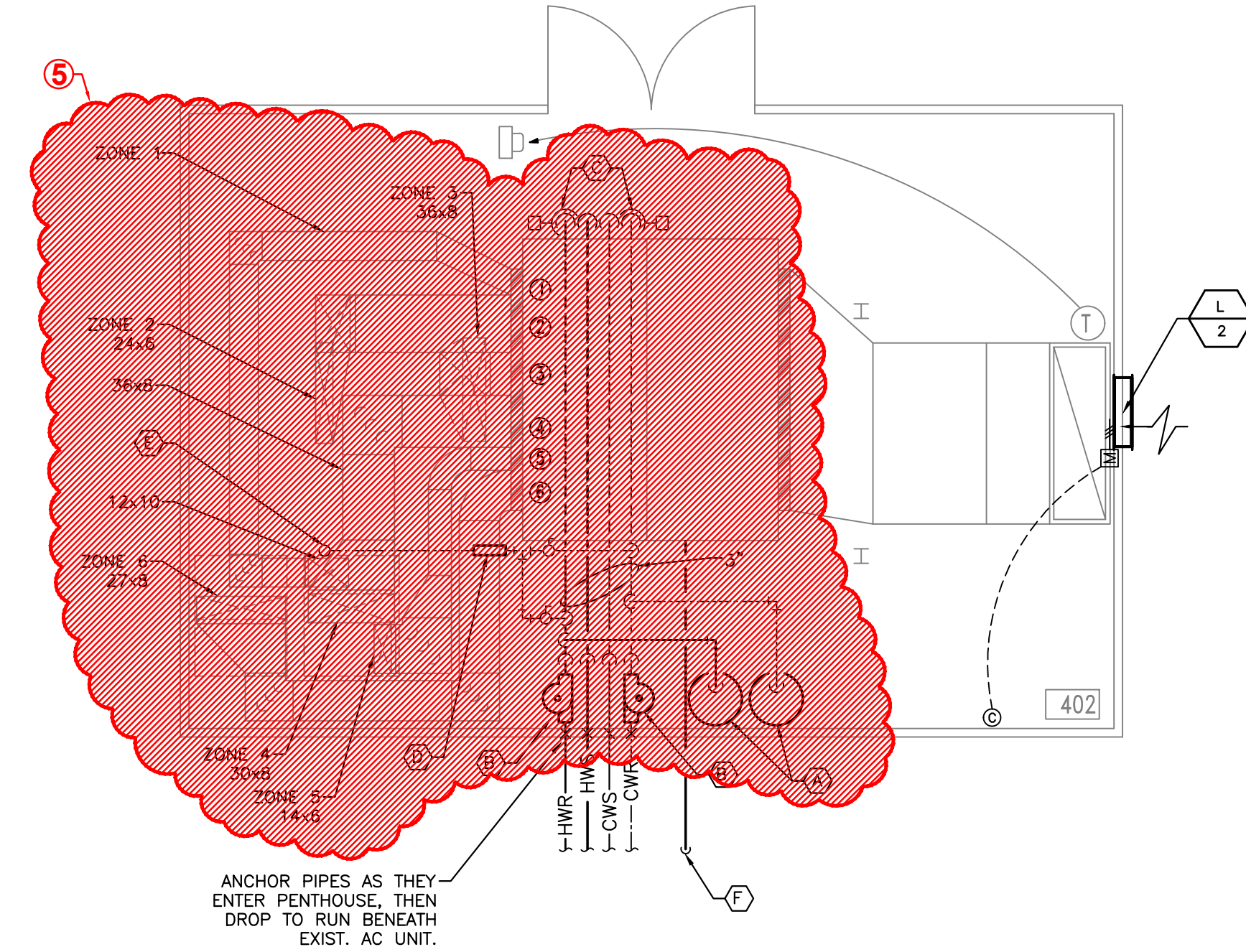
ENLARGED AC-2 LAYOUT

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



ENLARGED AC-3 LAYOUT

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



ENLARGED AC-4 LAYOUT

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

EXISTING EQUIPMENT NOTES	
(A)	53 GALLON ACCEPTANCE BLADDER TYPE EXPANSION TANK
(B)	LINE SIZE TANGENTIAL AIR SEPARATORS
(C)	CONTROL VALVES IN RISERS
(D)	1/2" MAKE-UP WATER ASSEMBLY
(E)	5/8" TO 1/2" WATER LINE
(F)	1-1/2" OVERFLOW DRAIN TO DRIP ON ROOF

HVAC DEMOLITION NOTES	
1	REMOVE EXISTING SUPPLY DUCT INSIDE VERTICAL CHASE TO ACCOMMODATE INSTALLATION OF NEW AIR HANDLING UNIT AND PIPING.
2	REMOVE EXISTING THERMOSTAT AND CONTROL WIRING.
3	PATCH/REPAIR FLOOR, CEILING, AND WALLS TO MATCH EXISTING. INSTALL NEW CONCRETE SLAB IN CHASE TO SUPPORT NEW EQUIPMENT.
4	REMOVE EXISTING HOT WATER UNIT HEATER, THERMOSTAT, PIPING, ETC.
5	REMOVE EXISTING AIR HANDLER, PIPING, CONTROLS, THERMOSTAT, DUCT, ETC. AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT. CAP ALL ABANDONED PIPING AND DUCT, WATER AND AIR TIGHT.
6	REMOVE AND REPLACE PORTIONS OF EXISTING DUCT. INSTALL NEW FIRE DAMPERS AT FLOOR PENETRATIONS OF THE NEW DUCT.
7	REMOVE EXISTING BOILER, PUMPS, EXPANSION TANKS, AIR SEPARATOR, PIPING, ETC. PATCH/REPAIR ALL EXISTING OPENINGS/SURFACES TO MATCH EXISTING FINISHES.
VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER	
GENERAL:	
-	REMOVE ALL ABANDONED PIPING, CONDUIT, ELECTRICAL, ETC. PATCH/REPAIR ALL HOLES, ETC. TO MATCH EXISTING FINISHES
-	VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
-	REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
-	PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
-	CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS PRIOR TO STARTING WORK.

EXISTING CONDITIONS DRAWING IS FOR REFERENCE PURPOSES ONLY. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.

WHORTON ENGINEERING, INC.	
HVAC - PLUMBING - PROCESS CONTROL	
<i>Randall Whorton</i>	DATE 03-25-2024
RANDALL WHORTON, P.E.	25 SUMMERBALL GATE ROAD ANNISTON, ALABAMA 36605
WHORTON ENGINEERING PROJECT NO. 23169	

CONSTRUCTION DOCUMENTS

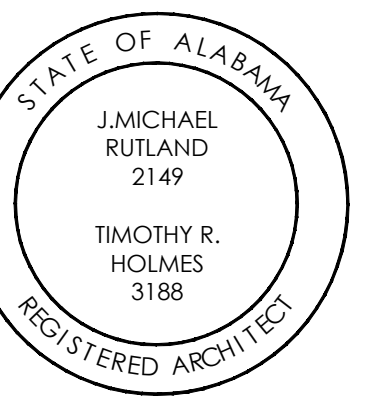
Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

Sheet Description

**ROOF HVAC
DEMOLITION
PLAN**

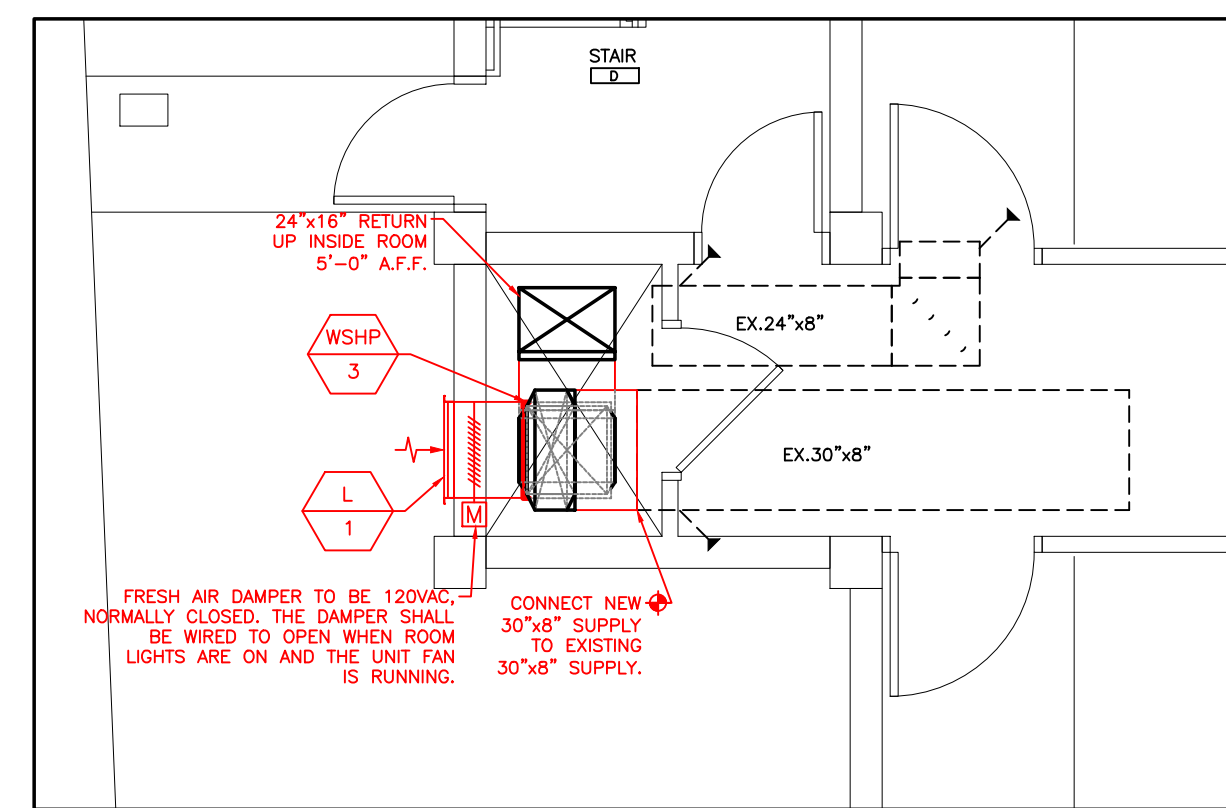
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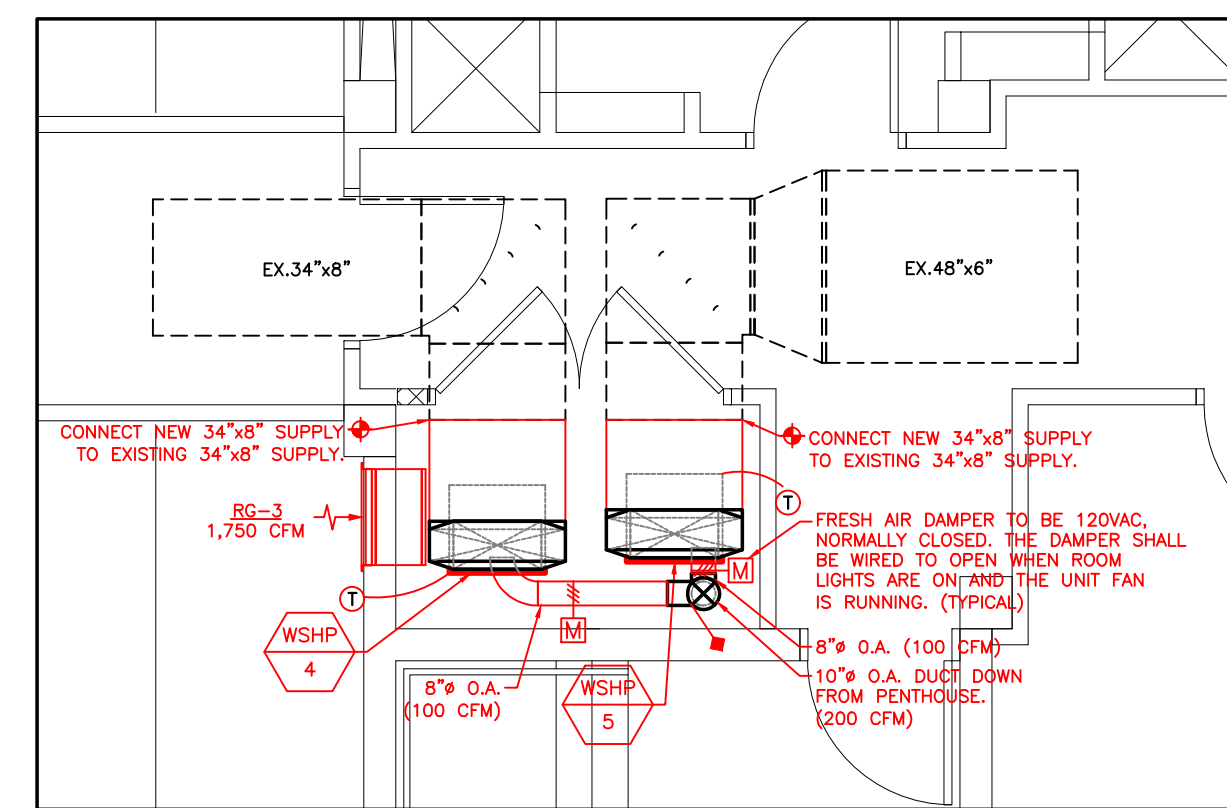
FMTC BUILDING
1021 HVAC
RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



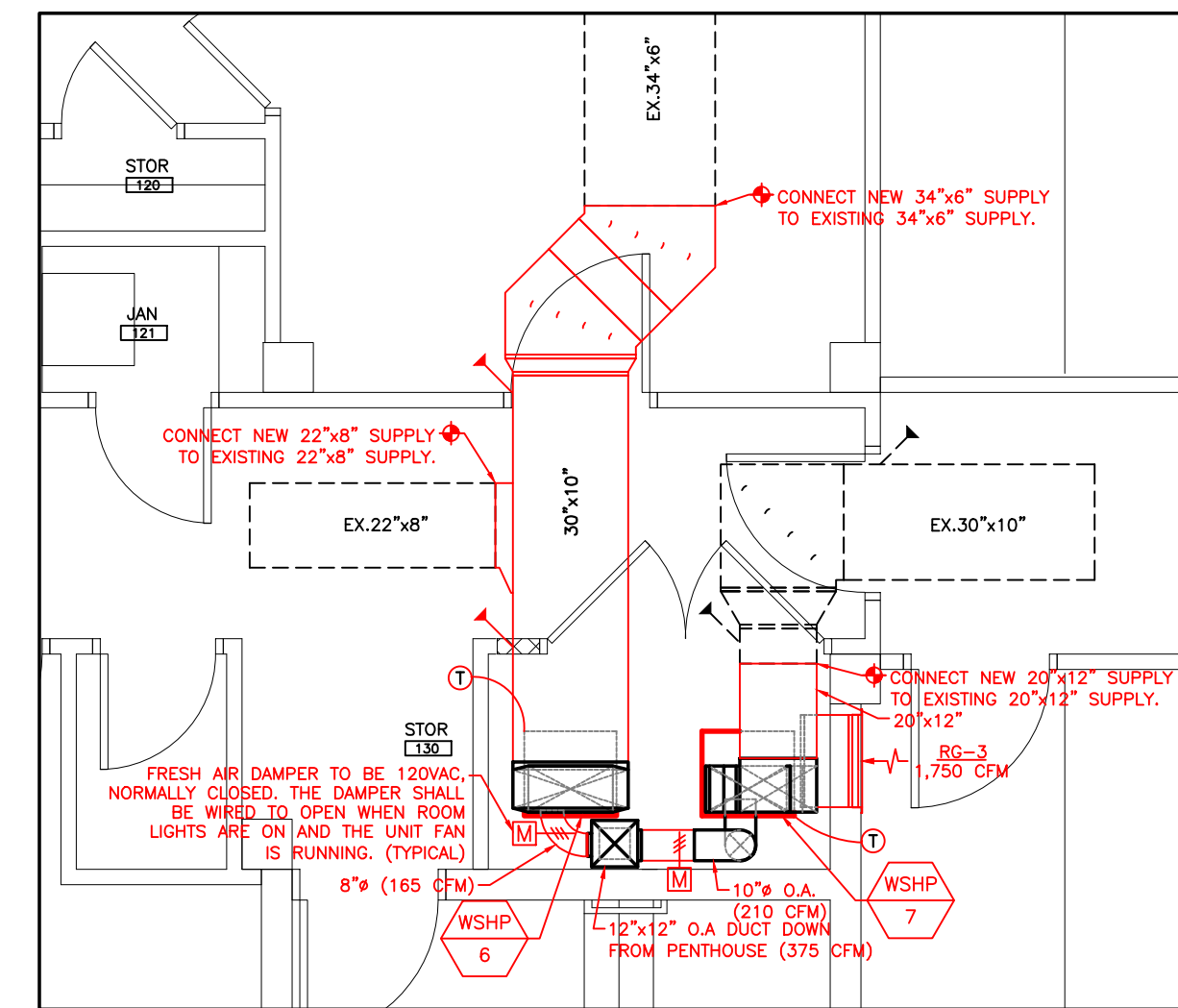
ENLARGED WSHP-3 PLAN

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



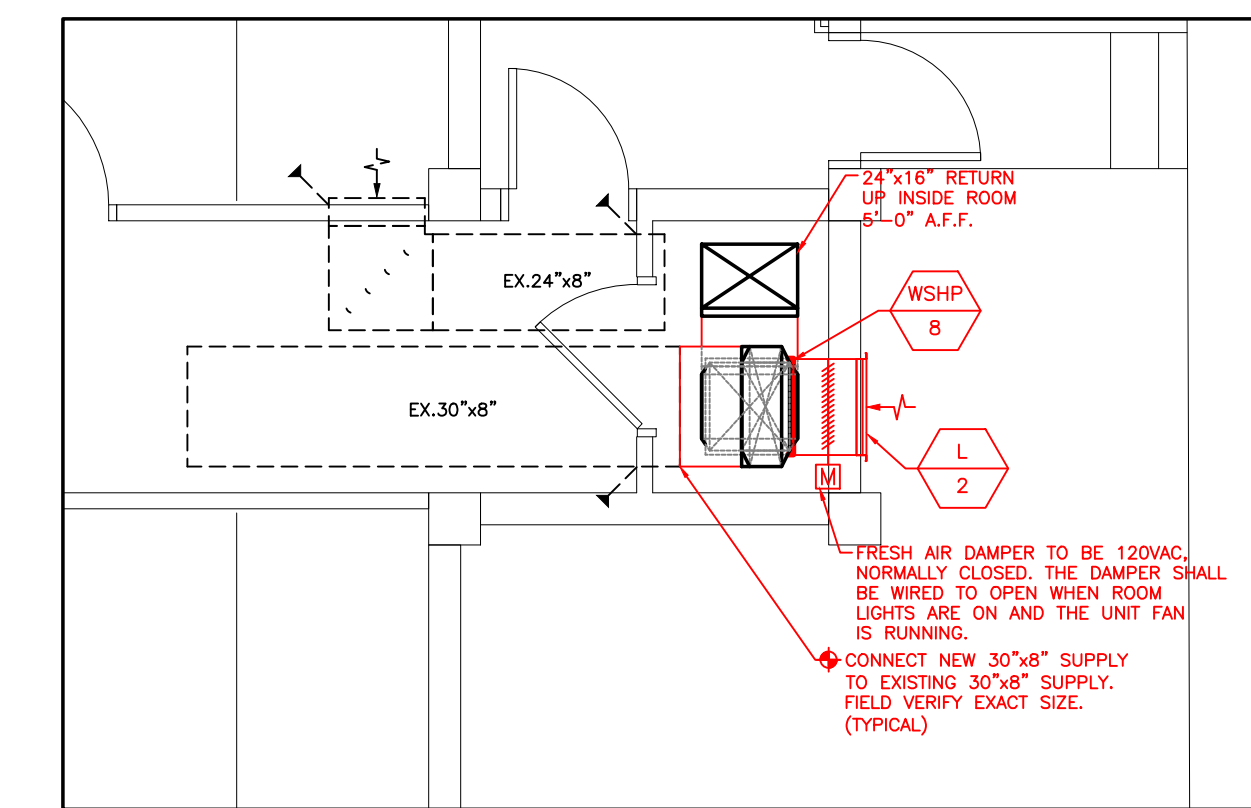
ENLARGED WSHP-4/5 PLAN

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



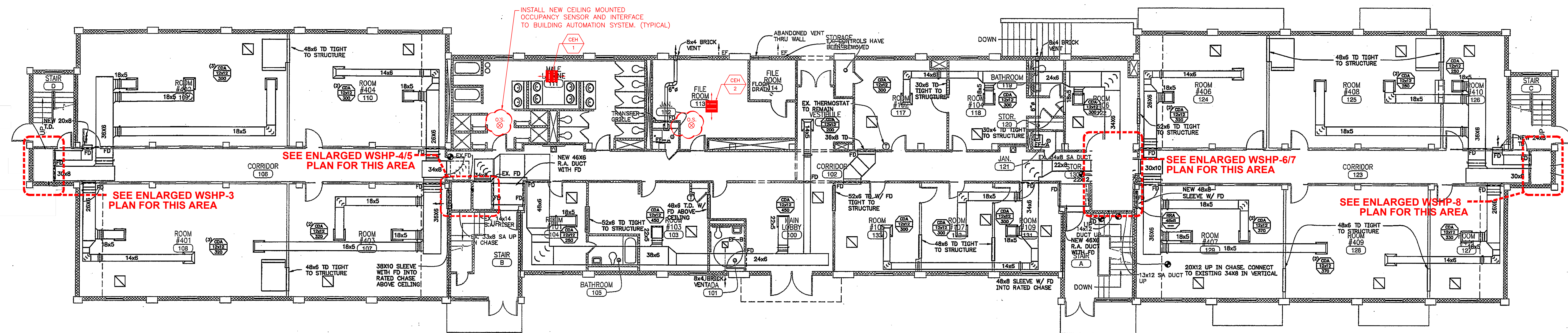
ENLARGED WSHP-6/7 PLAN

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



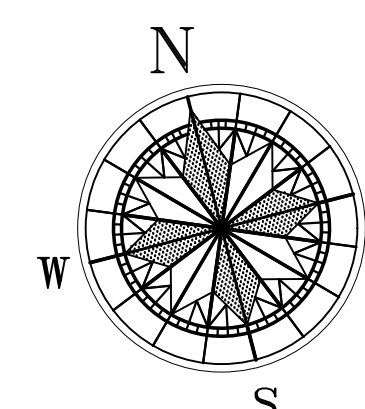
ENLARGED WSHP-8 PLAN

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



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SHEET NOTES
TEST AND BALANCE SHALL INCLUDE NEW AND EXISTING DUCT, GRILLES, ETC. REFERENCE DEMOLITION PLANS FOR EXISTING AIRFLOWS.



FIRST FLOOR REVISED HVAC PLAN

SCALE: 1/8" = 1'-0"

DIFFUSER SCHEDULE

TAG	Size	Neck Size	Quantity	Manufacturer	Model Number	Type	Notes
RG-1	24"x24"	23x23	1	TITUS	BRF	RETURN	20"x20"x1" FILTER
RG-2	24"x36"	24x24	2	TITUS	33RL	RETURN	1" FILTER
RG-3	24"x36"	24x24	1	TITUS	33RL	RETURN	1" FILTER
SWG-1	20"x6"	12x4	4	TITUS	272RL	SUPPLY	
			8				

FURNISH AND INSTALL AN INSULATION BLANKET ON THE BACK OF ALL MOUNTED DIFFUSERS AND GRILLES.

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

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DATE: 03-25-2024
25 SUMMERBELL GATE ROAD
ANNISTON, ALABAMA 36805

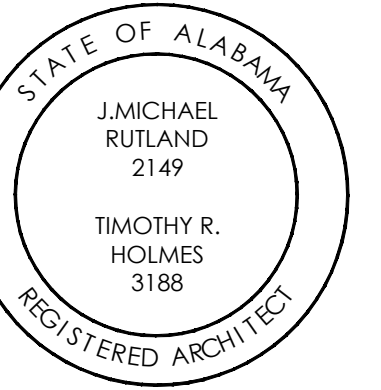
CONSTRUCTION DOCUMENTS

Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

Sheet Description
**FIRST FLOOR
REVISED
HVAC PLAN**

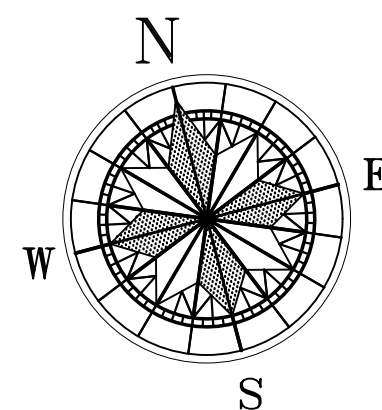
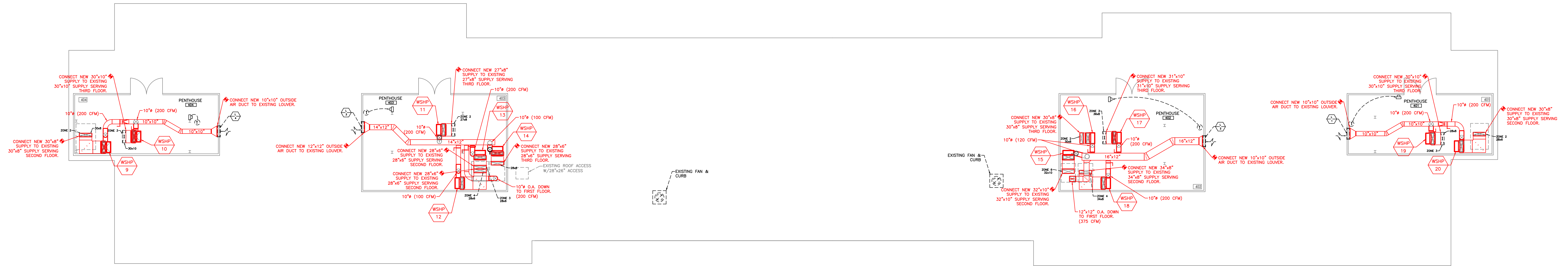
Sheet Number

BI.A/M4.1



**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



ROOF REVISED HVAC PLAN

SCALE: 1/8" = 1'-0"

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SHEET NOTES

TEST AND BALANCE SHALL INCLUDE NEW AND EXISTING DUCT, GRILLES, ETC. REFERENCE DEMOLITION PLANS FOR EXISTING AIRFLOWS.

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

Randall Whorton
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PHONE: (256) 820-9897
DATE: 03-25-2024
25 SUMMERHALL GATE ROAD
ANNISTON, ALABAMA 36605



WHORTON ENGINEERING PROJECT NO. 23169

CONSTRUCTION DOCUMENTS

Project Number: 23-1337

Date: 26 MARCH 2024

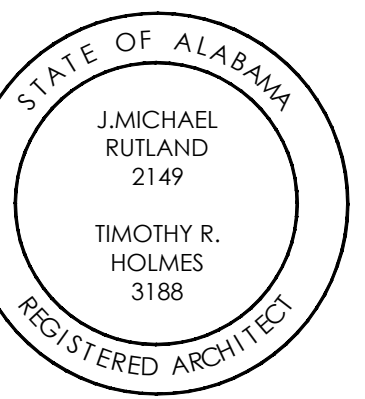
Revisions:

Sheet Description

ROOF REVISED HVAC PLAN

Sheet Number

BI.A/M4.3



**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
DOCUMENTS**

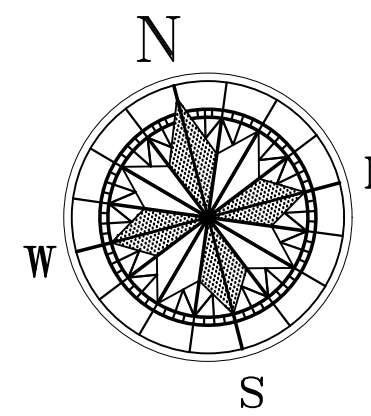
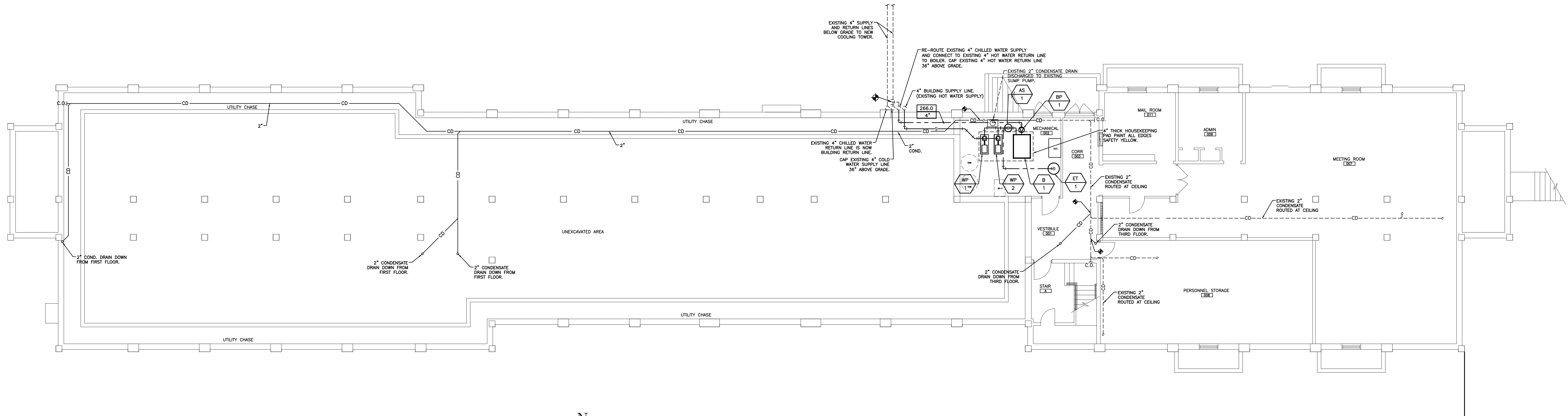
Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

Sheet Description

**BASEMENT &
FIRST FLOOR
HYDRONIC
PIPING PLAN**

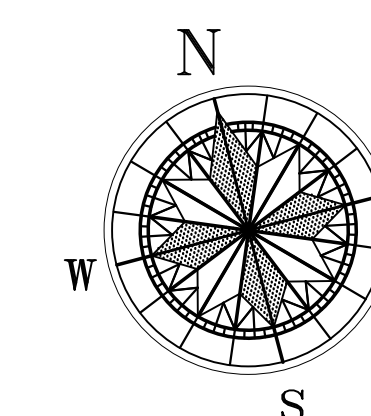
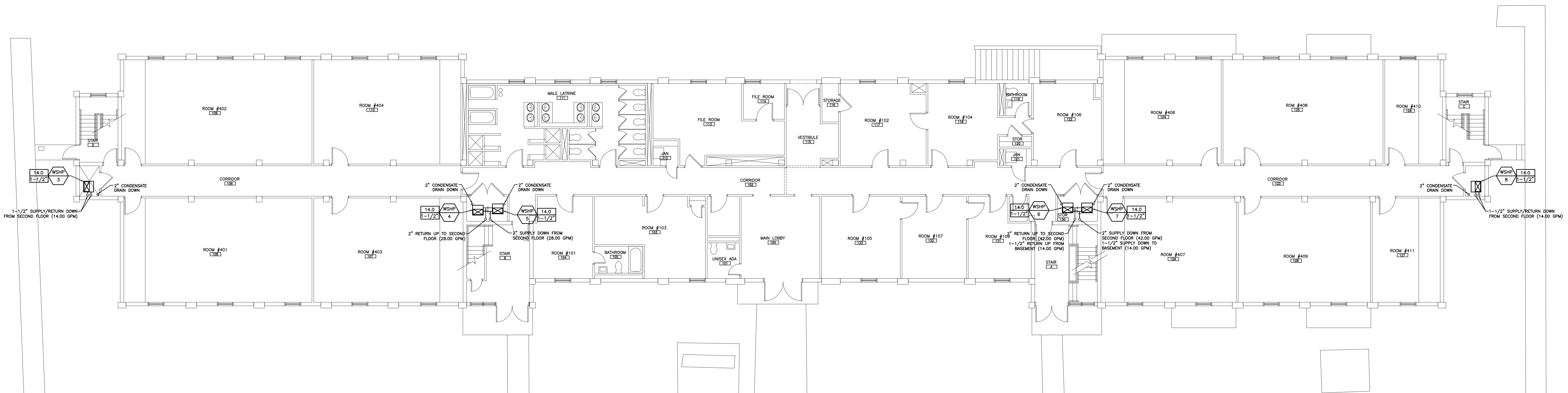
Sheet Number

BI.A/M5.1



BASEMENT HYDRONIC PIPING PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR HYDRONIC PIPING PLAN

SCALE: 1/8" = 1'-0"

PLUMBING LEGEND			
—S—	NEW SUPPLY LINE	⊕	TEMPERATURE GAGE
—R—	NEW RETURN LINE	⊕	PRESSURE GAGE
—EXS—	EXISTING SUPPLY LINE	⊕	AIR VENT
—EXR—	EXISTING RETURN LINE	⊕	GATE VALVE
—EXHWS—	EXIST. HOT WATER SUPPLY	⊕	GLOBE VALVE
—EXHWR—	EXIST. HOT WATER RETURN	⊕	BUTTERFLY VALVE
—EXCWS—	EX. CHILLED WATER SUPPLY	⊕	CHECK VALVE
—EXCWR—	EX. CHILLED WATER RETURN	⊕	BALL VALVE
—W—	EXISTING WATER	⊕	THREE WAY VALVE
⊔	90° ELBOW	⊕	PUMP
⊕	TEE	⊕	STRAINER
⊕	TEE, DOWN	⊕	CONNECT TO EXISTING
⊕	CROSS		

4.0 = GPM
1" = SIZE

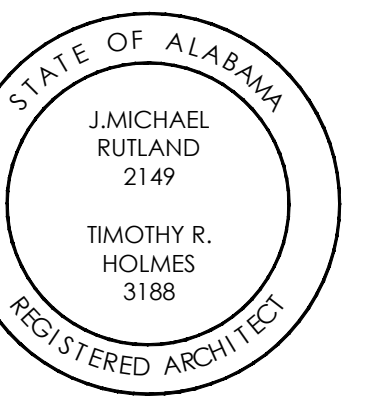
ALL HYDRONIC PIPING MAY BE SCHEDULE 10 VICTAULIC PIPE AND FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

Randall Whorton
RANDALL WHORTON, P.E.
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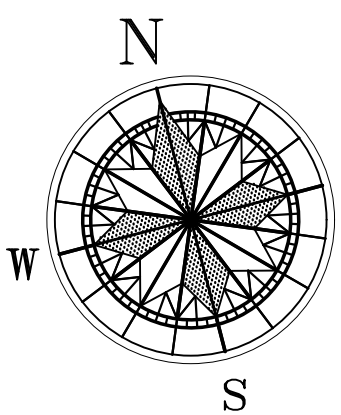
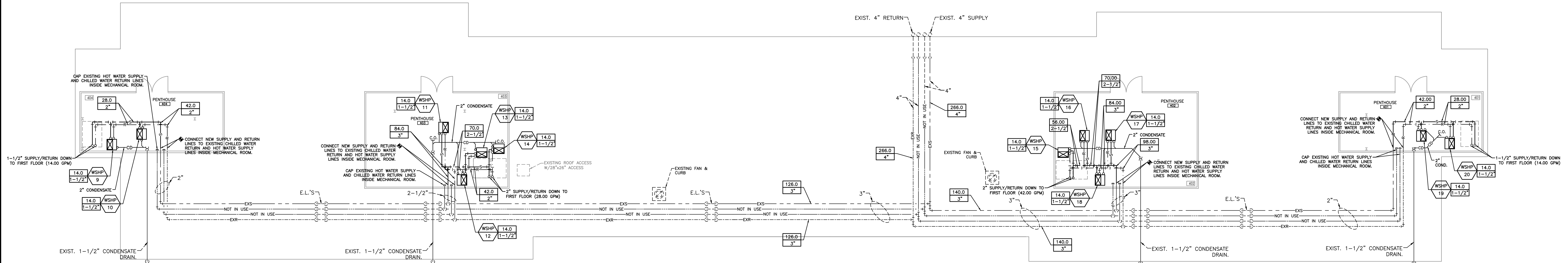


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FMTC BUILDING
1021 HVAC
RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



ROOF HYDRONIC PIPING PLAN

SCALE: 1/8" = 1'-0"

PLUMBING LEGEND			
— S —	NEW SUPPLY LINE		TEMPERATURE GAGE
- - - R - - -	NEW RETURN LINE		PRESSURE GAGE
— EXS —	EXISTING SUPPLY LINE		AIR VENT
- - - EXR - - -	EXISTING RETURN LINE		GATE VALVE
— EXHS —	EXIST. HOT WATER SUPPLY		GLOBE VALVE
— EXHR —	EXIST. HOT WATER RETURN		BUTTERFLY VALVE
— EXCWS —	EX. CHILLED WATER SUPPLY		CHECK VALVE
— EXCWR —	EX. CHILLED WATER RETURN		BALL VALVE
— W —	EXISTING WATER		THREE WAY VALVE
	90° ELBOW		PUMP
	TEE		STRAINER
	TEE, DOWN		CONNECT TO EXISTING
	CROSS		

4.0 = GPM
1" = SIZE

ALL HYDRONIC PIPING MAY BE SCHEDULE 10 VICTAULIC PIPE AND FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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23 SUMMERALL GATE ROAD
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WHORTON ENGINEERING PROJECT NO. 23169

CONSTRUCTION DOCUMENTS

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Sheet Description

ROOF HYDRONIC PIPING PLAN

Sheet Number

BI.A/M5.2

HVAC DEMOLITION NOTES

- REMOVE EXISTING CHILLER, PUMPS, PIPING, ETC. TO ACCOMMODATE INSTALLATION OF NEW COOLING TOWER. CONTRACTOR SHALL CAP EXISTING LINES AS SHOWN ON REVISED PLANS.
- LOCATE AND REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN LINES AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW COOLING TOWER. CONTRACTOR SHALL CAP EXISTING CHILLED WATER LINES BELOW GRADE AS SHOWN ON REVISED PLANS.

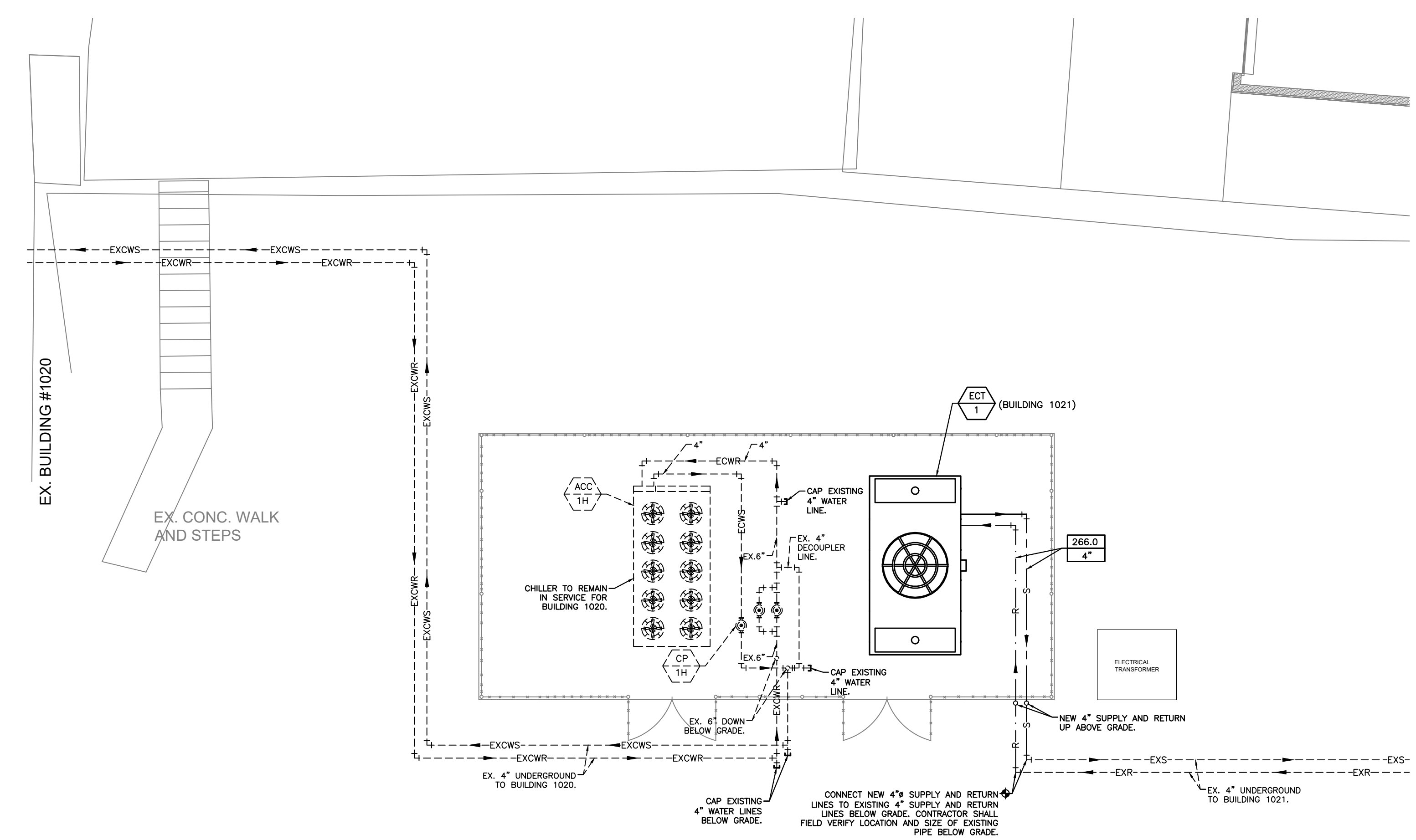
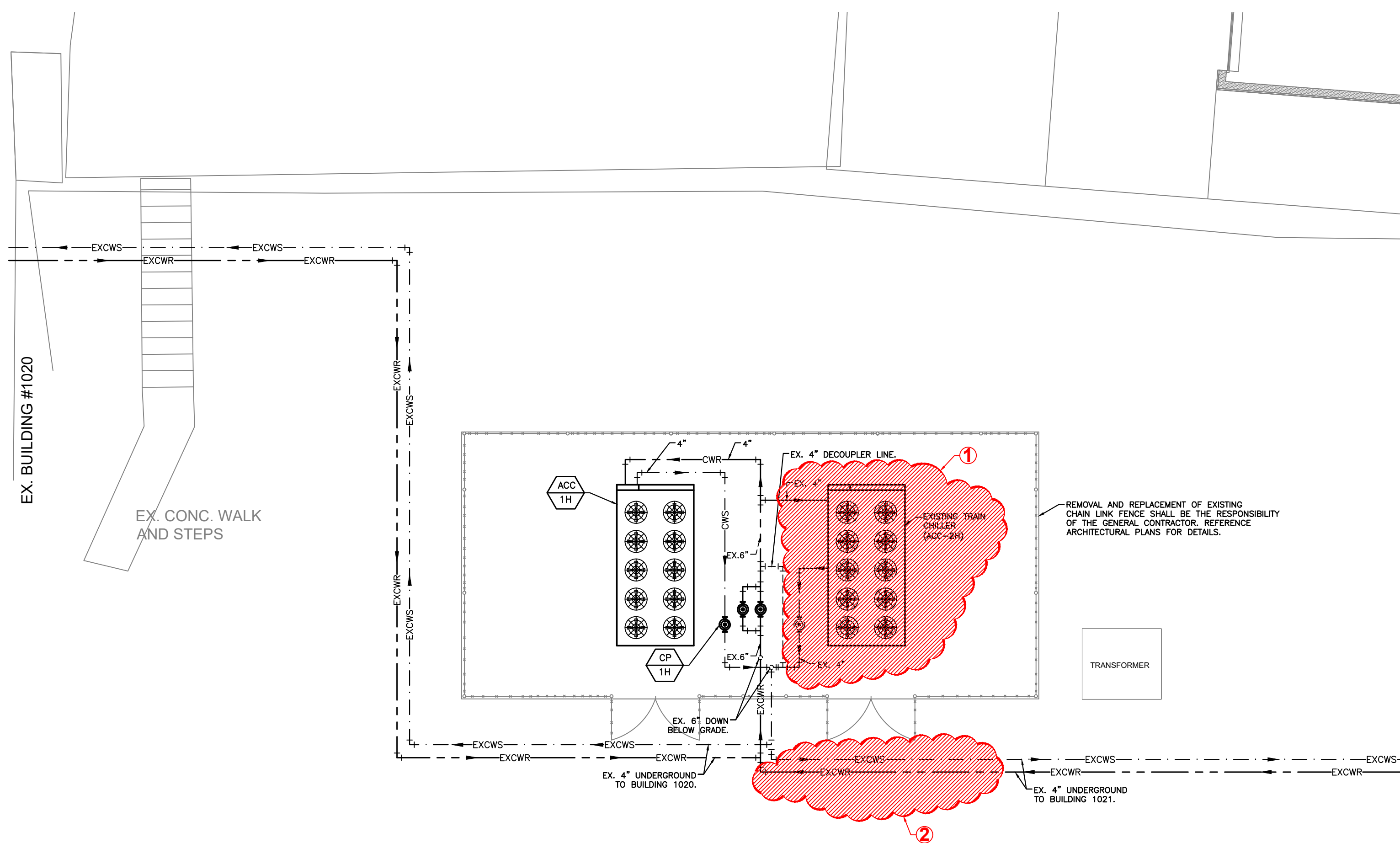
VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER

GENERAL:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT PRIOR TO BIDDING. THIS SHALL INCLUDE ALL ITEMS TO BE REMOVED OR RELOCATED, ALL ELECTRICAL, ALL REFRIGERANT PIPING, CONTROLS, ETC.
- PATCH/REPAIR ALL OPENINGS LEFT ABANDONED DUE TO THE REMOVAL OF ALL EQUIPMENT (UNIT, DUCT, PIPING, ELECTRICAL, ETC.) PATCH/REPAIR ALL SURFACES TO MATCH EXISTING.
- REMOVE ALL ABANDONED PIPING, CONDUIT, ELECTRICAL, ETC. PATCH/REPAIR ALL HOLES, ETC. TO MATCH EXISTING FINISHES.
- VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
- REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
- PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
- PROTECT ALL EXISTING BUILDINGS AND WORK TO REMAIN, INCLUDING ALL EXISTING STRUCTURE, FINISHES, AND MATERIALS AT ALL TIMES FROM DAMAGE DUE TO WORK UNDER THIS CONTRACT OR FROM DAMAGE DUE TO EXPOSURE TO THE ELEMENTS. ANY SUCH DAMAGE WILL BE REPAIRED, PATCHED, OR REPLACED TO MATCH ORIGINAL EXISTING CONDITION.
- TEMPORARILY REMOVE EXISTING ITEMS TO REMAIN IF REQUIRED TO PROPERLY INSTALL NEW WORK. UPON COMPLETION OF DEMOLITION OR NEW WORK, RE-INSTALL SUCH REMOVED ITEMS TO MATCH ORIGINAL EXISTING CONDITION.
- ALL BIDDERS SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE TOTAL SCOPE OF WORK, AND TO COMPLETELY FAMILIARIZE THEMSELVES WITH THE PROJECT, INCLUDING ALL EXISTING CONDITIONS, BUILDINGS, STRUCTURE, FINISHES, AND MATERIALS IN ALL AREAS AFFECTED BY WORK UNDER THIS CONTRACT.

PLUMBING LEGEND

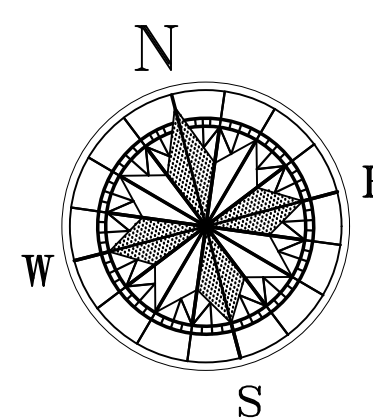
— S —	NEW SUPPLY LINE	⊕	TEMPERATURE GAGE
- - - R - - -	NEW RETURN LINE	⊙	PRESSURE GAGE
— EXS —	EXISTING SUPPLY LINE	↑	AIR VENT
- - - EXR - - -	EXISTING RETURN LINE	⊠	GATE VALVE
— EXHWS —	EXIST. HOT WATER SUPPLY	⊠	GLOBE VALVE
— EXHWR —	EXIST. HOT WATER RETURN	⊠	BUTTERFLY VALVE
— EXCWS —	EX. CHILLED WATER SUPPLY	⊠	CHECK VALVE
— EXCWR —	EX. CHILLED WATER RETURN	⊠	BALL VALVE
— W —	EXISTING WATER	⊠	THREE WAY VALVE
⊥	90° ELBOW	⊠	PUMP
⊥	TEE	⊠	STRAINER
⊥	TEE, DOWN	⊠	CONNECT TO EXISTING
⊥	CROSS		



4.0 = GPM
1" = SIZE

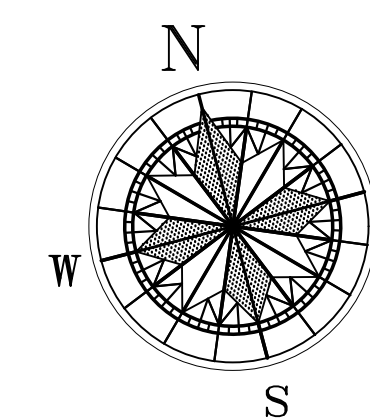
ALL HYDRONIC PIPING MAY BE SCHEDULE 10 VITACULIC PIPE AND FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL CONTRACTOR TO SUPPLY AND INSTALL ELECTRIC HEAT TRACING ON ALL EXPOSED HYDRONIC PIPING.



MECHANICAL YARD DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



REVISED MECHANICAL YARD PLAN

SCALE: 1/8" = 1'-0"

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DATE: 03-25-2024
25 SUMMERBALL GATE ROAD
ANNISTON, ALABAMA 36605



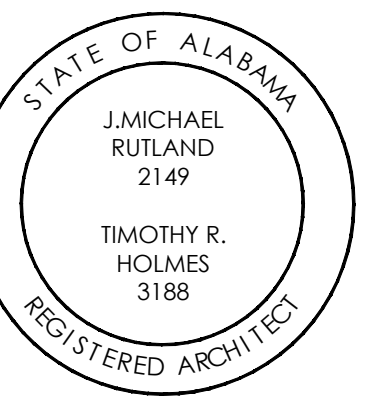
WHORTON ENGINEERING PROJECT NO. 23169

JMR+H

Architecture, P.C.

445 Dexter Avenue
Suite 5050
Montgomery, AL 36104

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**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
DOCUMENTS**

Project Number: 23-1337

Date: 26 MARCH 2024

Revisions:

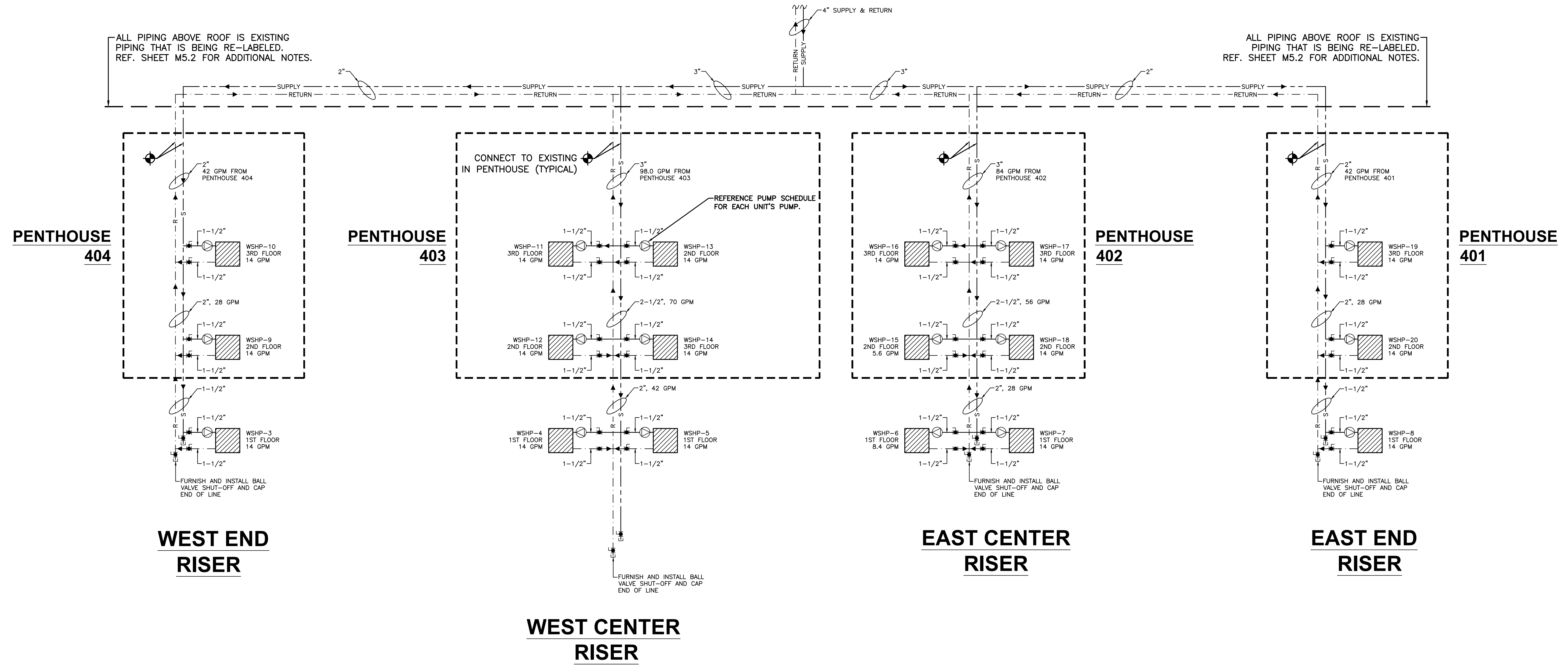
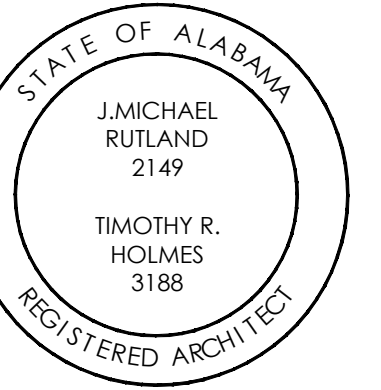
Sheet Description

**MECHANICAL
YARD PLAN**

Sheet Number

BI.A/M5.3

20 OF 29



SHEET NOTES
NEW VERTICAL PIPING IN CHASE MAY BE AQUATHERM BLUE PIPE (OR APPROVED EQUAL) WITH FUSED JOINTS.

HYDRONIC PIPING DIAGRAM
NOT TO SCALE

CONSTRUCTION DOCUMENTS

Project Number: 23-1337
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Sheet Description

HYDRONIC PIPING DIAGRAM

Sheet Number

BI.A/M5.4

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL
Randall Whorton
RANDALL WHORTON, P.E.
PHONE: (256) 820-9897
DATE: 03-25-2024
25 SUMMERHALL GATE ROAD
ANNISTON, ALABAMA 36205
No. 14192
REGISTERED PROFESSIONAL ENGINEER
STATE OF ALABAMA

ELECTRICAL SYMBOLS

- WALL OUTLET - GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF-5362-GY - GREY WITH #5-26 PLATE. ("WP" DENOTES EXTRA DUTY METAL IN-USE WEATHERPROOF COVER)
- FLOOR OUTLET - CONDUIT STUB UP.
- CEILING OUTLET - JUNCTION BOX.
- WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY. ("N" DENOTES NARROW)
- SWITCH OUTLET/TIMER - TIME SWITCH WITH ON/OFF BUTTON. WATT STOPPER TS-400-G OR EQUAL.
- LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
- POWER PANELS - SEE SPECIFICATIONS AND SCHEDULE.
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
- BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
- HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT.
3 # 12 & 1 # 12(G) - 3/4" CONDUIT.
4 # 12 & 1 # 12(G) - 3/4" CONDUIT.
- EMPTY CONDUIT - 3/4".
- BRANCH CIRCUIT EXPOSED.
- CONDUIT RUN DOWN WALLS, CONCEALED
- CONDUIT RUN UP WALLS, CONCEALED
- MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
- EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
- MAGNETIC MOTOR STARTER.
- NON-FUSED DISCONNECT SWITCH. (RT - RAINIGHT).
- FUSED DISCONNECT SWITCH. (RT - RAINIGHT).
- EX. EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS OTHERWISE NOTED.
- A.F.F. ABOVE FINISHED FLOOR.
- A.F.G. ABOVE FINISHED GRADE.
- MD MOTORIZED DAMPER.
- VER. VERIFY LOCATION.
- N.E.C. NATIONAL ELECTRICAL CODE.
- THERMOSTAT - WALL OUTLET 60" AFF OR AS DIRECTED BY MECHANICAL DRAWINGS. RUN EMPTY 3/4" CONDUIT TO UNIT.
- FIRE ALARM - SMOKE DETECTOR - MATCH EXISTING
- FIRE ALARM - HEAT DETECTOR - MATCH EXISTING
- FIRE ALARM - DUCT DETECTOR - MATCH EXISTING
- FIRE ALARM - MAGNETIC DOOR HOLDER - MATCH EXISTING
- FIRE ALARM - MANUAL PULL STATION - MATCH EXISTING
- FIRE ALARM - STROBE LIGHT/HORN - MATCH EXISTING. "WP" INDICATES WEATHERPROOF.
- FIRE ALARM - EXISTING MINI-HORN.
- FIRE ALARM - STROBE LIGHT - MATCH EXISTING

GENERAL NOTES

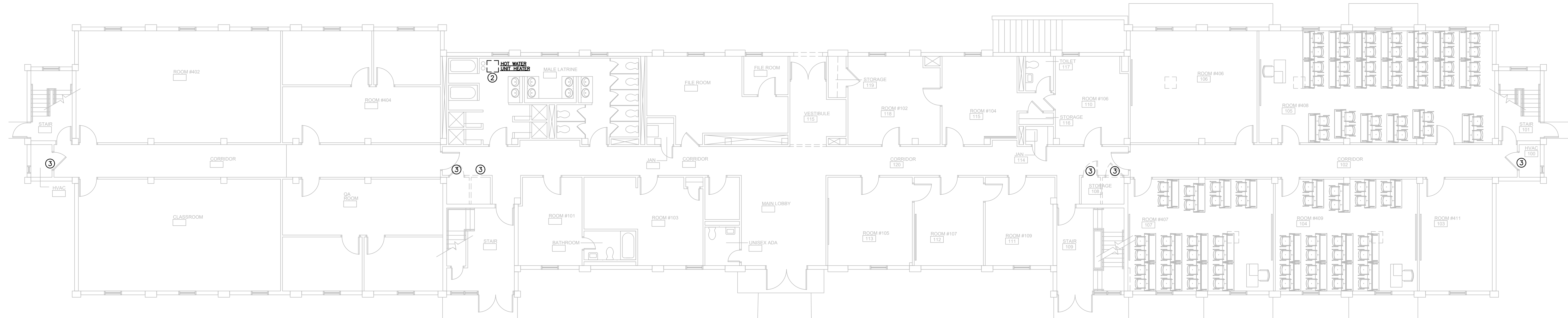
1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
8. MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
WALL SWITCHES.....4'-0" (TO CENTER OF BOX)
RECEPTACLES.....1'-6" (TO CENTER OF BOX)
FIRE ALARM HORN/STROBE.....6'-8" (TO CENTER OF BOX)
9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
10. VERIFY ALL DOOR SWINGS WITH THE ARCHITECT BEFORE ROUGHING IN LIGHT SWITCHES.
11. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH-IN.
12. BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
13. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
14. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
15. SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
16. COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
17. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER N.E.C..
18. CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC-FLASH WARNING LABELS PER NEC 110.16.
19. CONTRACTOR SHALL PAINT NEW CONDUIT TO MATCH EXISTING CEILING AND WALLS WHERE IT IS EXPOSED.
20. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT OPERATION AND MAINTENANCE OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE.
21. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF ELECTRICAL EQUIPMENT WITH THE OWNER PRIOR TO SUBMITTING AND ORDERING EQUIPMENT.
22. WHERE NEW CIRCUITS ARE ADDED TO EXISTING PANELS, CONTRACTOR SHALL UPDATE THE EXISTING PANEL DIRECTORY WITH A NEW TYPED PANEL DIRECTORY.
23. VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE ARCHITECT AND THE OWNER PRIOR TO ROUGH-IN.

DEMOLITION NOTES

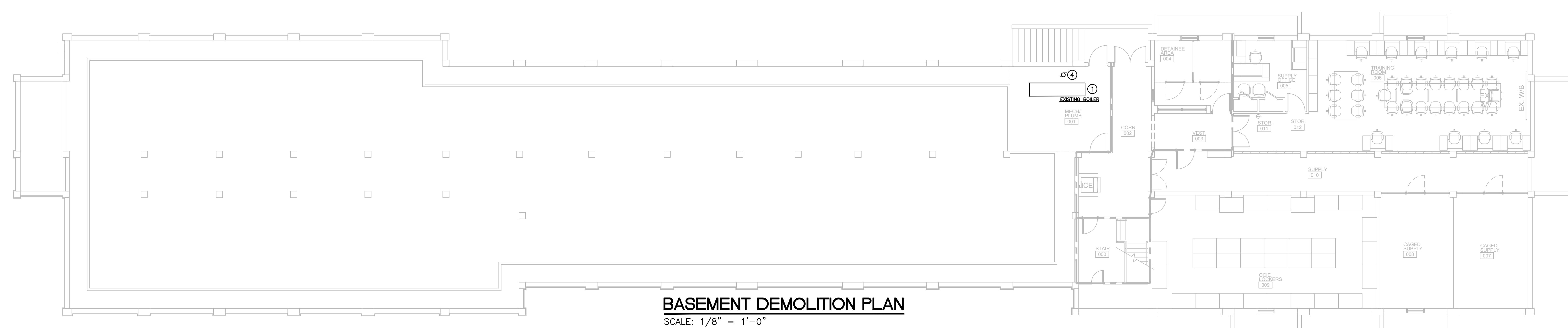
1. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
2. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
3. REMOVE ELECTRICAL EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY.
4. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
5. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
6. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
7. DISCONNECT AND REMOVE ABANDONED DISTRIBUTION EQUIPMENT.
8. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
9. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
10. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
11. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
12. REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

DEMOLITION KEYNOTES

- ① DISCONNECT EXISTING CIRCUIT TO EXISTING MECHANICAL UNIT BEING REPLACED, RECONNECT CIRCUIT TO NEW UNIT.
- ② REMOVE EXISTING DISCONNECT, CONDUIT, WIRE, ETC. FOR MECHANICAL UNIT BEING REMOVED.
- ③ CONTRACTOR SHALL RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH THE EXISTING CHASE BEING CONVERTED TO A MECHANICAL CLOSET. THIS APPLIES TO THE CORRIDOR AS WELL AS THE CHASE.
- ④ CONTRACTOR SHALL DISCONNECT EXISTING PUMP AND REUSE EXISTING CIRCUIT TO THE EXTENT POSSIBLE FOR THE NEW PUMP.



FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



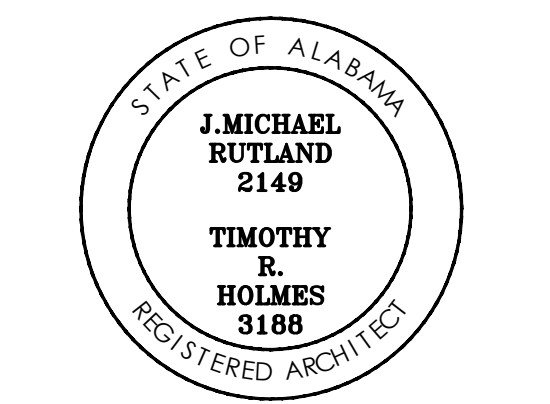
BASEMENT DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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FMTC BUILDING
1021 HVAC
RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

CONSTRUCTION DOCUMENTS

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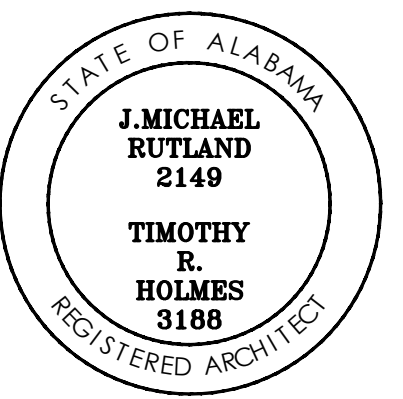
SYMBOLS, NOTES
AND DEMOLITION
PLANS

Sheet Number

BI.A/E1.1



McCARTER
ENGINEERING
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PHONE: (256) 240-7335 878 AVALON LANE
ANNISTON, AL 36207
M.E. JOB #2404

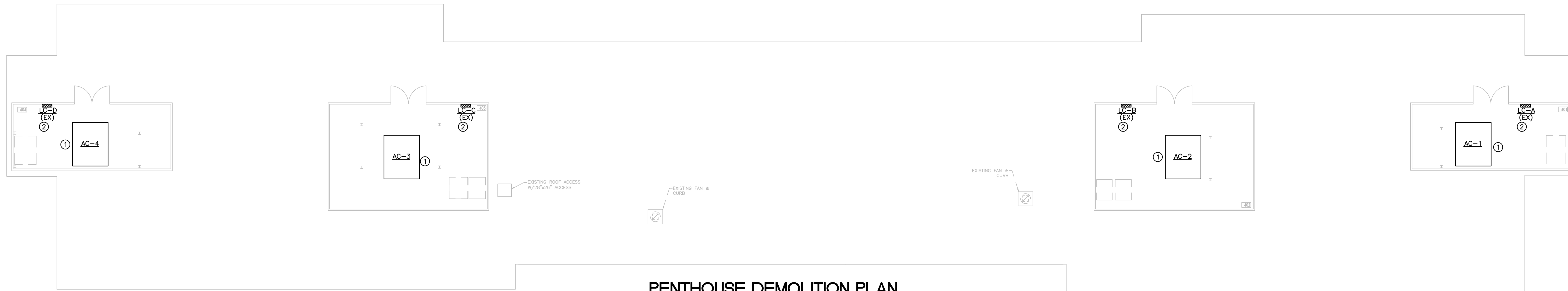


**FMTC BUILDING
1021 HVAC
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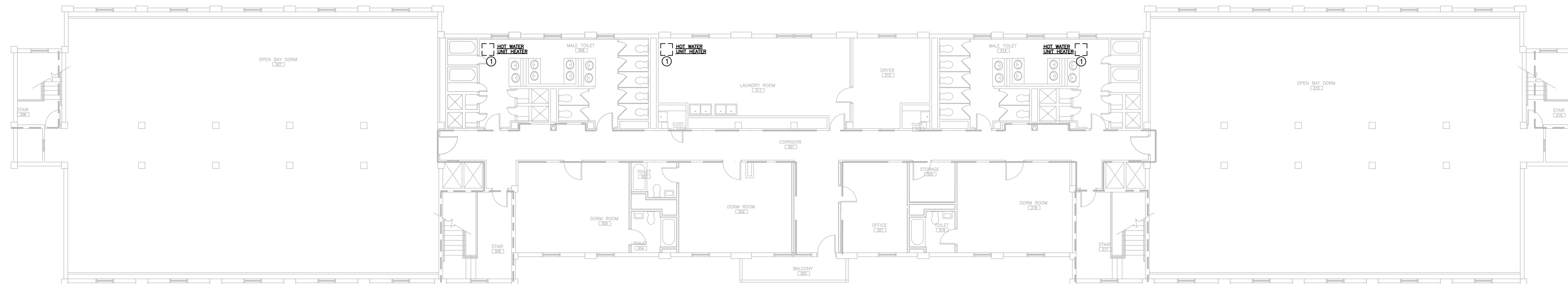
DEMOLITION KEYNOTES

- ① REMOVE EXISTING DISCONNECT, CONDUIT, WIRE, ETC. FOR MECHANICAL UNIT BEING REMOVED.
- ② DISCONNECT AND REMOVE PANELBOARD, DISCONNECTS, AND TROUGH. INSTALL NEW PANELBOARD PER REVISED PLAN. EXTEND EXISTING CIRCUITS AS NECESSARY.



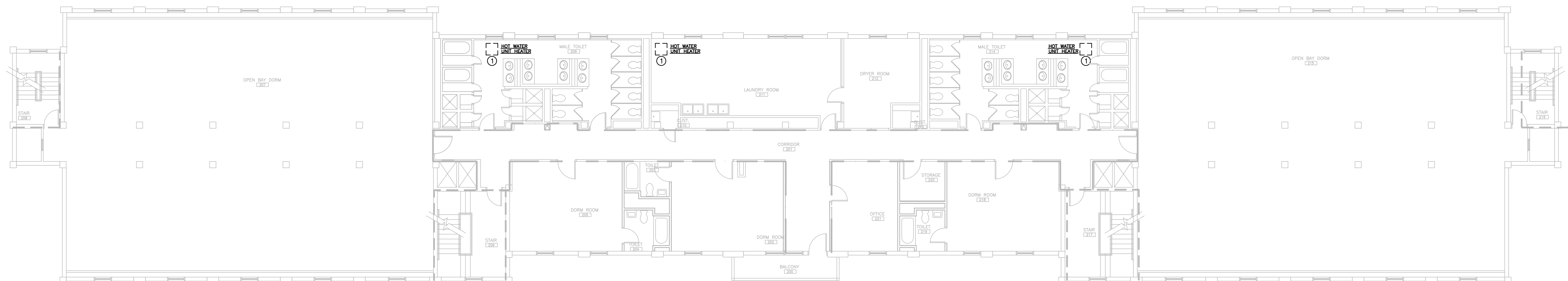
PENTHOUSE DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



THIRD FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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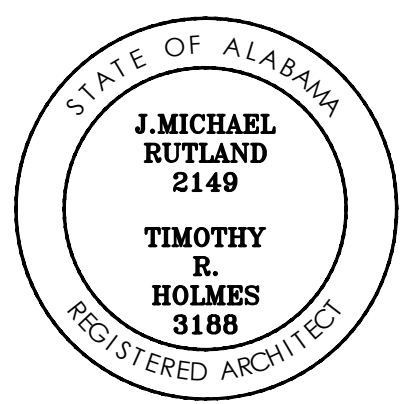
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DEMOLITION PLANS

Sheet Number

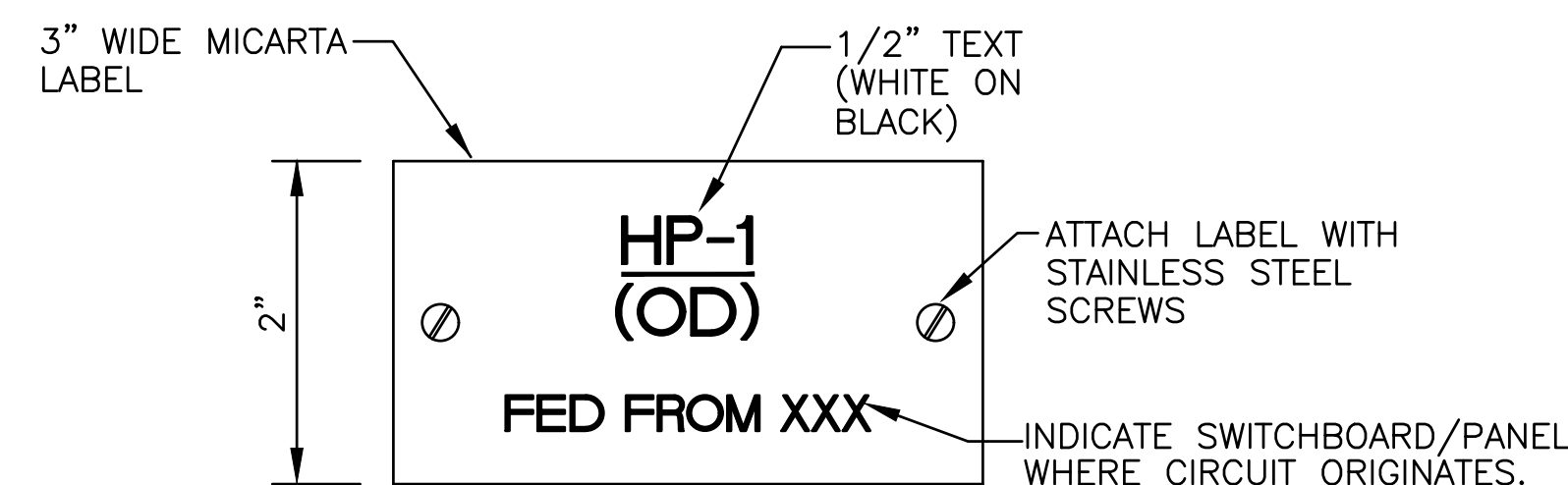
BI.A/E2.1





**FMTC BUILDING
1021 HVAC
RESTORATION**

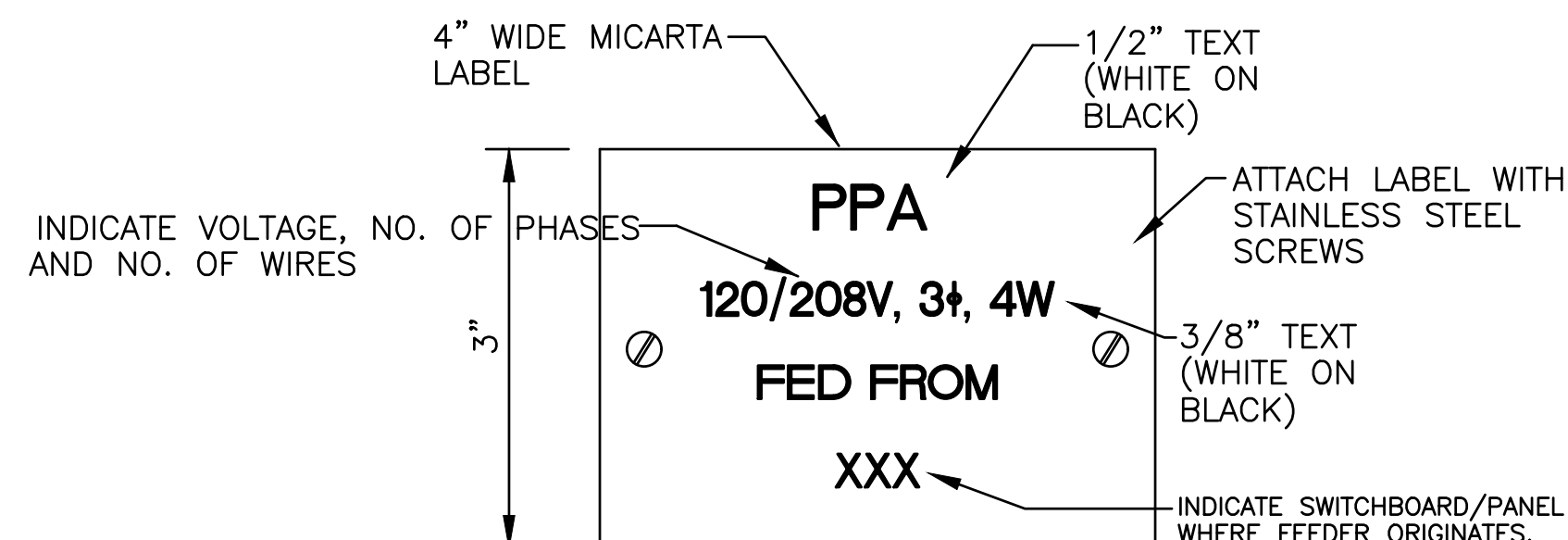
ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S



EQUIPMENT LABEL DETAIL

N.T.S. (TYPICAL)

NOTES:
1. INSTALL LABEL ON ALL DISCONNECTING MEANS FOR EACH PIECE OF EQUIPMENT.



PANEL LABEL DETAIL

N.T.S. (TYPICAL)

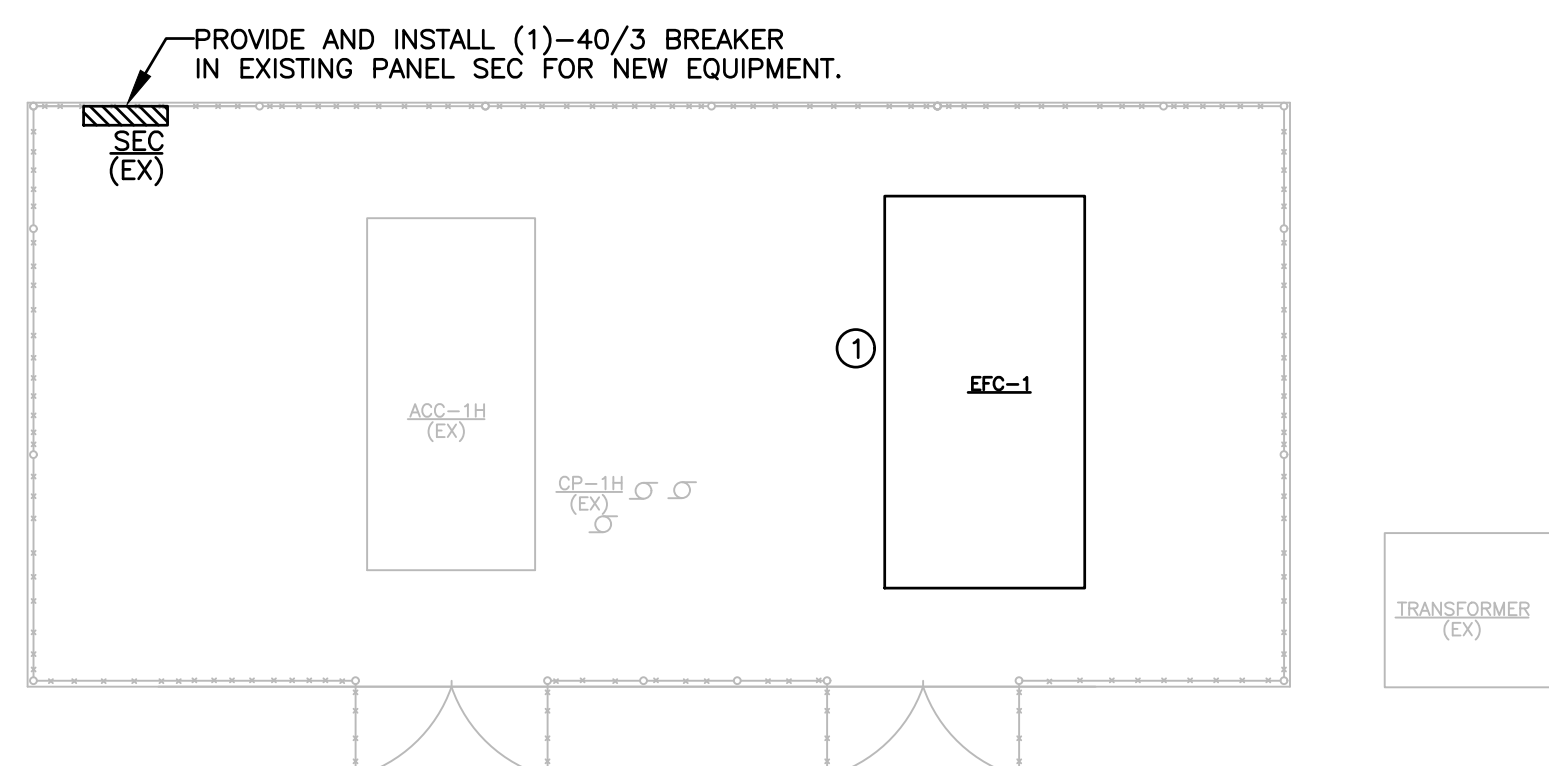
LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
D1	LITHONIA	ZL1D424-2500LM-FST-120-50K-80CRL-WH	FURNISHED WITH FIXTURE			VERIFY	SURFACE	SEE NOTE 1	

NOTES:
1. EQUAL FIXTURE BY COLUMBIA OR DAYBRITE WILL BE ACCEPTABLE.

ELECTRICAL KEYNOTES

- ① TIE INTO EXISTING CIRCUIT FOR HEAT TAPE. EXTEND CIRCUITS AS NECESSARY.



MECHANICAL YARD POWER PLAN

SCALE: 1/8" = 1'-0"

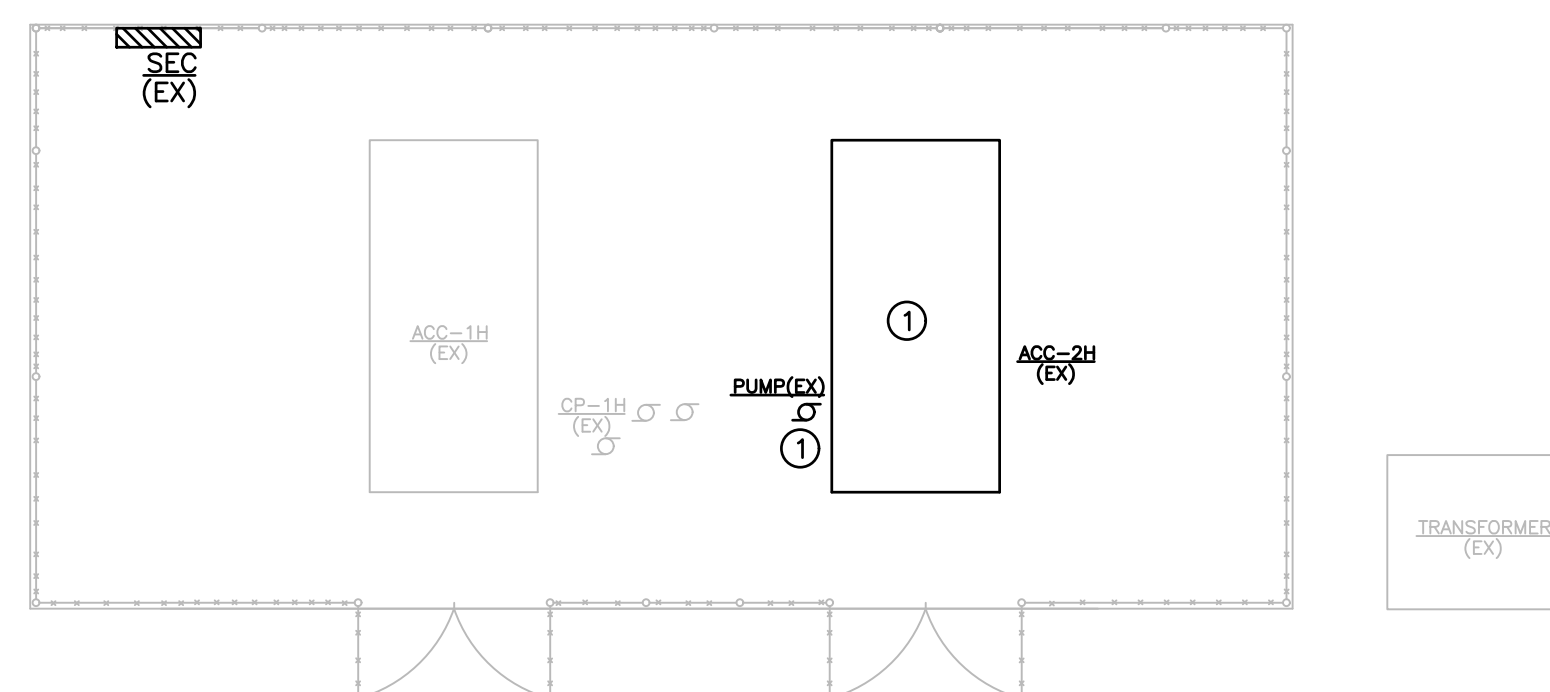
PANELBOARD SCHEDULE

MARK	TYPE	MAINS			BRANCHES					LUG LOCATION	TYPE MOUNTING	MINIMUM AC RATING	REMARKS
		TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES				
PPA	NQOD	MLO	400	120/208V 3φ, 4W		8-20	6-35 2-50	6-20/1	14-1PS	TOP	SURFACE	VERIFY WITH APCO	SEE NOTE 1 (TWO SECTION PANEL)
PP1	NQOD	MLO	100	120/208V 3φ, 4W	6-20		1-15 2-35	3-20/1	12-1PS	BOTTOM	SURFACE	VERIFY WITH APCO	SEE NOTES 1 & 2
PP2	NQOD	MLO	250	120/208V 3φ, 4W	6-20		1-15 4-35 1-100	3-20/1	15-1PS	BOTTOM	SURFACE	VERIFY WITH APCO	SEE NOTES 1 & 2
PP3	NQOD	MLO	250	120/208V 3φ, 4W	6-20		1-15 4-35 1-100	3-20/1	15-1PS	BOTTOM	SURFACE	VERIFY WITH APCO	SEE NOTES 1 & 2
PP4	NQOD	MLO	100	120/208V 3φ, 4W	6-20		1-15 2-35	3-20/1	12-1PS	BOTTOM	SURFACE	VERIFY WITH APCO	SEE NOTES 1 & 2

NOTES:
1. PANEL SHALL BE FULLY RATED AND SHALL HAVE A HINGED FRONT TRIM.
2. PANEL SHALL REPLACE EXISTING PANEL IN SAME LOCATION. CONTRACTOR SHALL RECONNECT EXISTING CIRCUITS TO NEW BREAKERS IN THE NEW PANEL. EXTEND CIRCUITS AS NECESSARY.

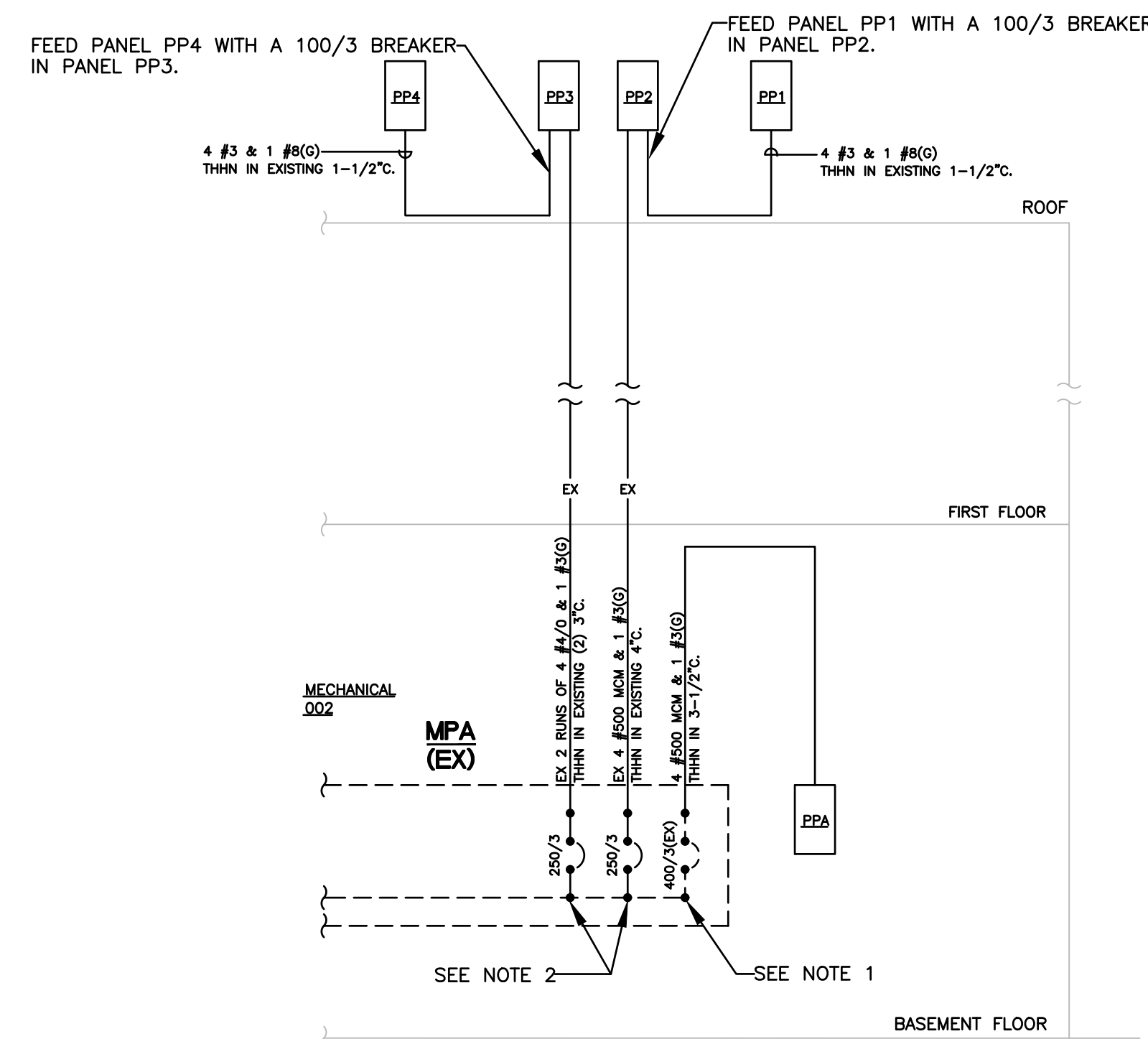
DEMOLITION KEYNOTES

- ① REMOVE EXISTING DISCONNECT, CONDUIT, WIRE, ETC. FOR MECHANICAL EQUIPMENT BEING REMOVED.



MECHANICAL YARD DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

NOTES:
1. REUSE ONE EXISTING 400/3 BREAKER IN EXISTING PANEL MPA THAT PRESENTLY FEEDS THE PENTHOUSE FOR NEW PANEL.
2. PROVIDE AND INSTALL (2)-250/3 BREAKERS IN MPA(EX) FOR FEEDS TO NEW PANELS IN PENTHOUSE 2 & 3. PROVIDE AND INSTALL ALL HARDWARE NECESSARY TO INSTALL THE NEW BREAKERS. RE-TERMINATE EXISTING PENTHOUSE FEEDERS TO THE NEW 250/3 BREAKERS. EXTEND FEEDERS AS NECESSARY.

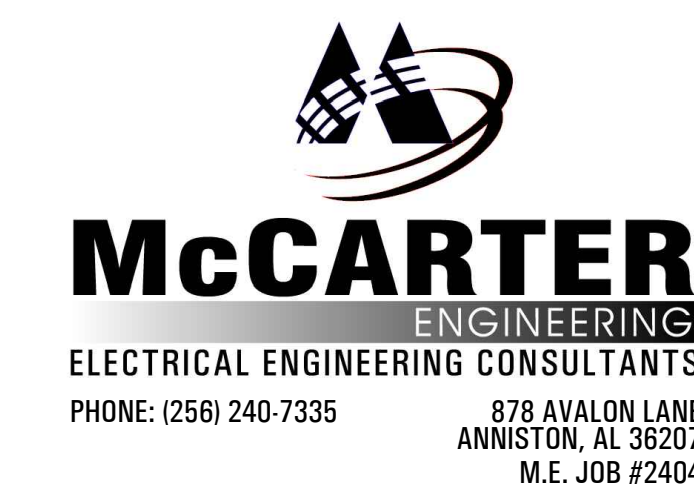
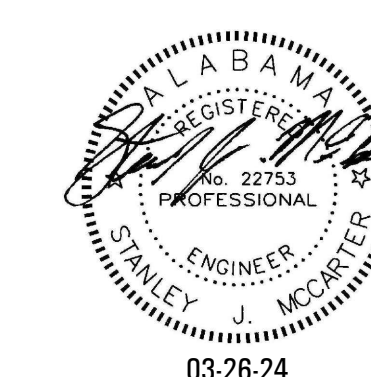
CONSTRUCTION DOCUMENTS

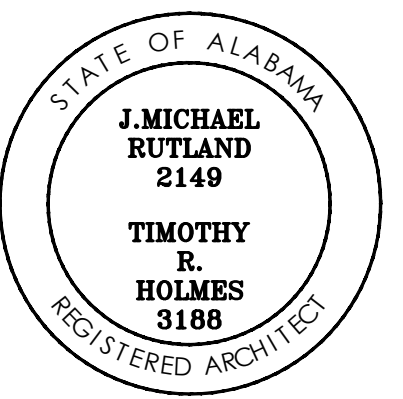
Project Number: 23-1337
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Revisions:

Sheet Description
**SINGLE LINE
DIAGRAM,
SCHEDULES AND
MECHANICAL YARD
PLANS**

Sheet Number

BI.A/E2.2





**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
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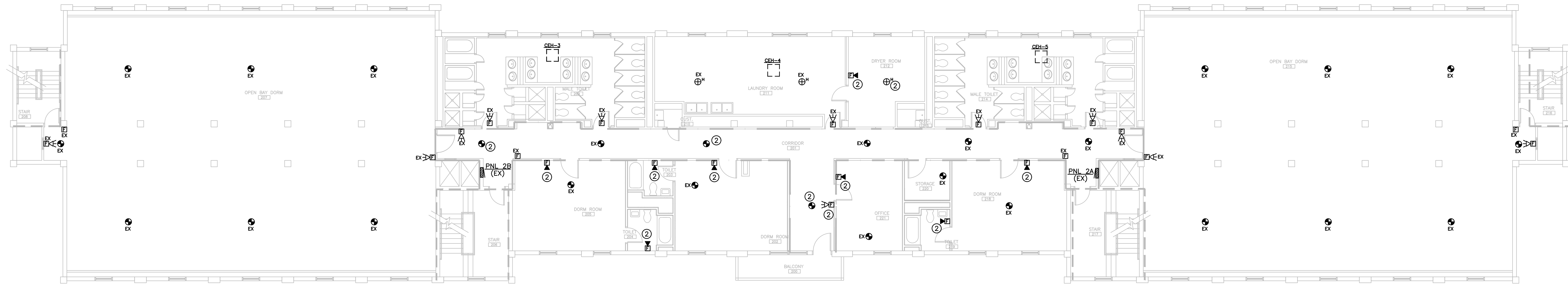
**BASEMENT, FIRST
AND SECOND
FLOOR POWER
AND AUXILIARIES
PLANS**

Sheet Number

BI.A/E3.1

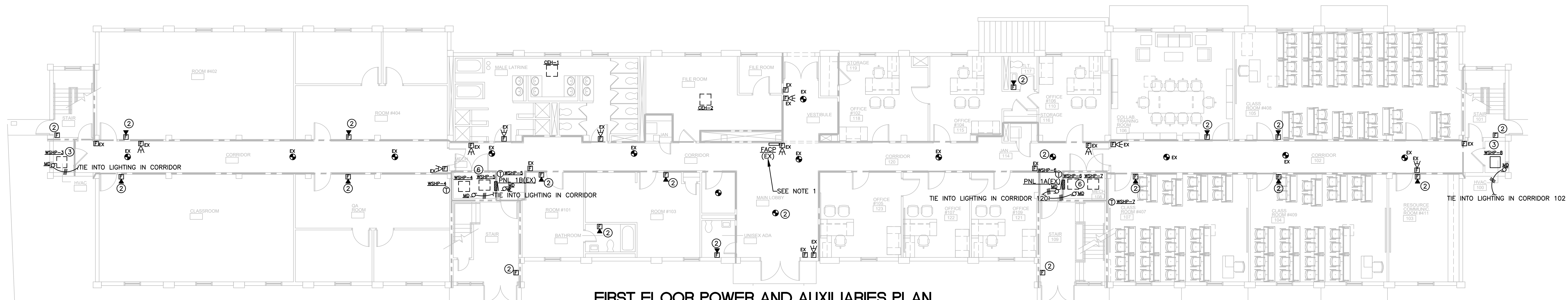
ELECTRICAL KEYNOTES

- ① RECONNECT NEW MECHANICAL UNIT TO EXISTING CIRCUIT. EXTEND CIRCUIT AS NECESSARY.
- ② INSTALL NEW FIRE ALARM DEVICE AND TIE INTO EXISTING FIRE ALARM SYSTEM. RECERTIFY SYSTEM ONCE CHANGES ARE MADE.
- ③ PROVIDE AND INSTALL ONE(1) NEW "D1" LIGHT FIXTURE AND TIME SWITCH (STM) IN ROOM. COORDINATE LOCATION OF LIGHT FIXTURE WITH MECHANICAL CONTRACTOR DUE TO DUCT WORK CONFLICTS. CIRCUIT FIXTURE IN TO NEAREST AVAILABLE LIGHTING CIRCUIT.
- ④ CONTRACTOR MAY UTILIZE EXISTING CONDUIT TO THE EXTENT POSSIBLE FOR NEW PUMP. EXTEND CIRCUIT AS REQUIRED.
- ⑤ UTILIZE EXISTING 15/3 BREAKER IN EXISTING PANEL LCP FOR NEW CIRCUIT TO BP-1 PUMP.
- ⑥ PROVIDE AND INSTALL TWO(2) NEW "D1" LIGHT FIXTURES AND TIME SWITCH (STM) IN ROOM. COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL CONTRACTOR DUE TO DUCT WORK CONFLICTS. CIRCUIT FIXTURES IN TO NEAREST AVAILABLE LIGHTING CIRCUIT.



SECOND FLOOR POWER AND AUXILIARIES PLAN

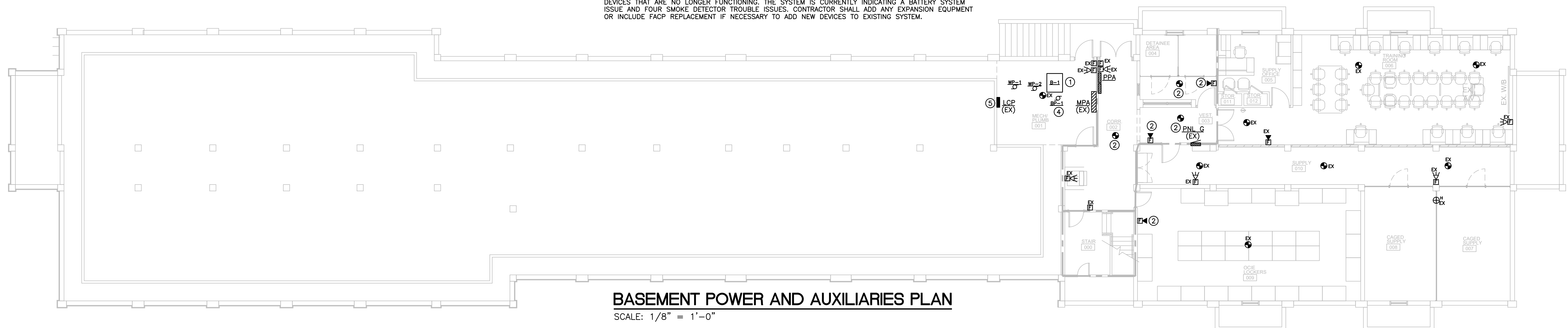
SCALE: 1/8" = 1'-0"



FIRST FLOOR POWER AND AUXILIARIES PLAN

SCALE: 1/8" = 1'-0"

NOTES:
1. CONTRACTOR SHALL INVESTIGATE ALL EXISTING TROUBLE SIGNALS ON FACP AND REPAIR/REPLACE ALL DEVICES THAT ARE NO LONGER FUNCTIONING. THE SYSTEM IS CURRENTLY INDICATING A BATTERY SYSTEM ISSUE AND FOUR SMOKE DETECTOR TROUBLE ISSUES. CONTRACTOR SHALL ADD ANY EXPANSION EQUIPMENT OR INCLUDE FACP REPLACEMENT IF NECESSARY TO ADD NEW DEVICES TO EXISTING SYSTEM.

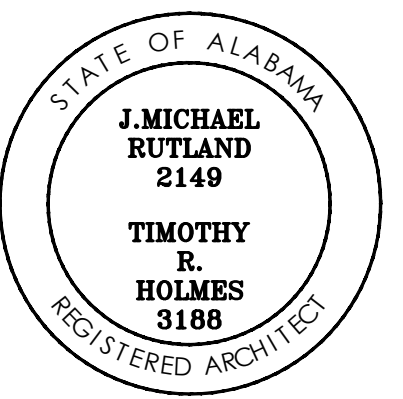


BASEMENT POWER AND AUXILIARIES PLAN

SCALE: 1/8" = 1'-0"

NOTE:
ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:
LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'.....#8 AWG





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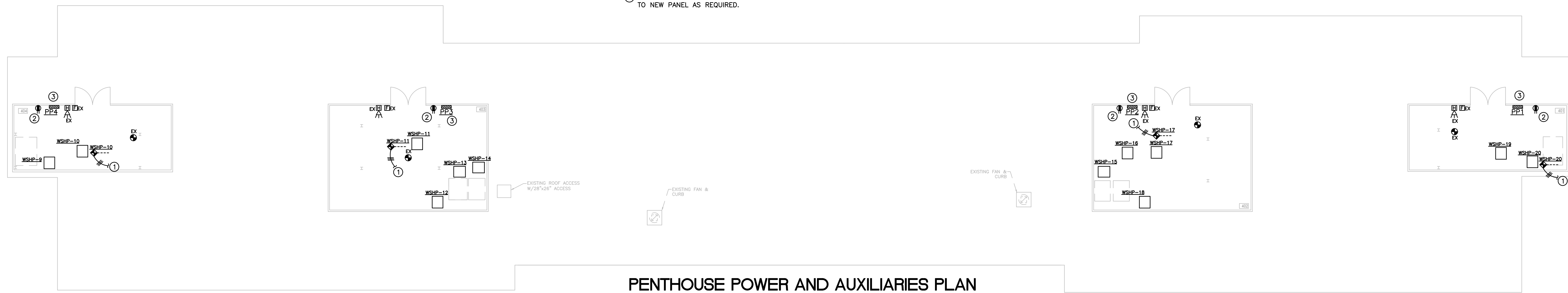
MECHANICAL EQUIPMENT CIRCUIT SCHEDULE

UNIT ID	CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	DISCONNECT TYPE
EFC-1	SEC(E)X	40/3	3 #8	#10	3/4"	60/3, F, RT
BP-1	LCP(E)X	15/3	3 #12	#12	1/2"	30/3, NF
WP-1	PPA-40,41,42	50/3	3 #8	#10	3/4"	60/3, NF
WP-2	PPA-43,44,45	50/3	3 #8	#10	3/4"	60/3, NF
WSHP-3	PPA-6,7,8	35/3	4 #8"	#10	1"	60/3, NF
WSHP-4	PPA-9,10,11	35/3	4 #8"	#10	1"	60/3, NF
WSHP-5	PPA-14,15,16	35/3	4 #8"	#10	1"	60/3, NF
WSHP-6	PPA-17,18,19	35/3	4 #8"	#10	1"	60/3, NF
WSHP-7	PPA-22,23,24	35/3	4 #8"	#10	1"	60/3, NF
WSHP-8	PPA-25,26,27	35/3	4 #8"	#10	1"	60/3, NF
WSHP-9	PP4-1,2,3	35/3	4 #8"	#10	1"	NONE
WSHP-10	PP4-4,5,6	35/3	4 #8"	#10	1"	NONE
WSHP-11	PP3-4,5,6	35/3	4 #8"	#10	1"	NONE
WSHP-12	PP3-7,8,9	35/3	4 #8"	#10	1"	NONE
WSHP-13	PP3-10,11,12	35/3	4 #8"	#10	1"	NONE
WSHP-14	PP3-13,14,15	35/3	4 #8"	#10	1"	NONE
WSHP-15	PP2-4,5,6	35/3	4 #8"	#10	1"	NONE
WSHP-16	PP2-7,8,9	35/3	4 #8"	#10	1"	NONE
WSHP-17	PP2-10,11,12	35/3	4 #8"	#10	1"	NONE
WSHP-18	PP2-13,14,15	35/3	4 #8"	#10	1"	NONE
WSHP-19	PP1-1,2,3	35/3	4 #8"	#10	1"	NONE
WSHP-20	PP1-4,5,6	35/3	4 #8"	#10	1"	NONE
CEH-1	PPA-12,13	20/2	2 #10	#10	1/2"	NONE
CEH-2	PPA-20,21	20/2	2 #10	#10	1/2"	NONE
CEH-3	PPA-28,29	20/2	2 #10	#10	1/2"	NONE
CEH-4	PPA-30,31	20/2	2 #10	#10	1/2"	NONE
CEH-5	PPA-32,33	20/2	2 #12	#12	1/2"	NONE
CEH-6	PPA-34,35	20/2	2 #10	#10	1/2"	NONE
CEH-7	PPA-36,37	20/2	2 #10	#10	1/2"	NONE
CEH-8	PPA-38,39	20/2	2 #12	#12	1/2"	NONE

NF - NONFUSED
F - FUSED (FUSE PER MANUFACTURERS RECOMMENDATIONS)
RT - RANTIGHT
TS - TOGGLE SWITCH ("WP" INDICATES WEATHERPROOF)
MRS - MOTOR RATED SWITCH
SIT - SHUNT TRIP BREAKER
DPTS - DOUBLE POLE TOGGLE SWITCH
NOTE: MAINTAIN CODE REQUIRED CLEARANCES FOR DISCONNECTS.
* NOTE THAT A NEUTRAL SHALL BE PULLED TO EACH WSHP FOR A 120V PUMP THAT IS INTEGRAL TO EACH UNIT.

ELECTRICAL KEYNOTES

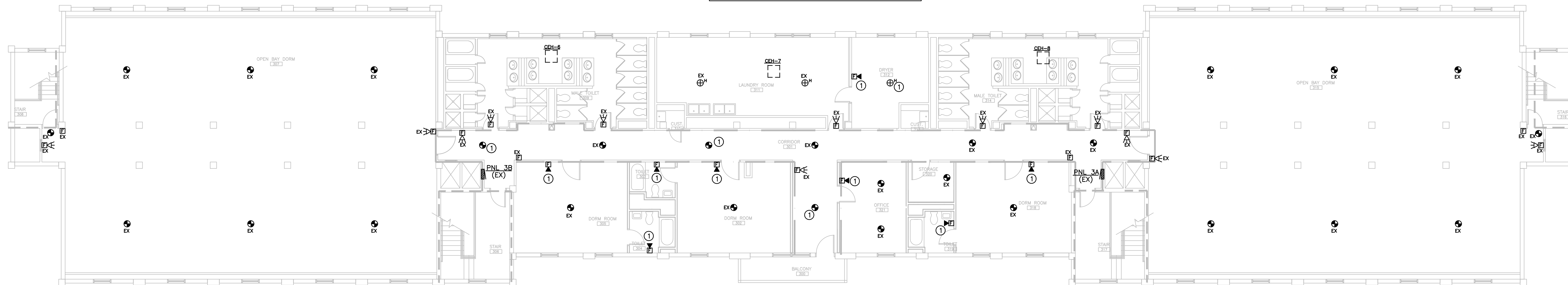
- INSTALL NEW FIRE ALARM DEVICE AND TIE INTO EXISTING FIRE ALARM SYSTEM. RECERTIFY SYSTEM ONCE CHANGES ARE MADE.
- INSTALL NEW GFCI RECEPTACLE AS SHOWN AND TIE INTO NEAREST AVAILABLE RECEPTACLE CIRCUIT. RECEPTACLE SHALL BE INSTALLED FOR SERVICING INDOOR HVAC IN THIS ROOM.
- INSTALL NEW PANEL AS SCHEDULED TO REPLACE THE EXISTING PANEL. EXTEND ALL EXISTING CIRCUITS TO NEW PANEL AS REQUIRED.



PENTHOUSE POWER AND AUXILIARIES PLAN

SCALE: 1/8" = 1'-0"

NOTE:
ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:
LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'....#8 AWG



THIRD FLOOR POWER AND AUXILIARIES PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

Project Number: 23-1337
Date: 26 MARCH 2024
Revisions:

Sheet Description

THIRD FLOOR AND PENTHOUSE POWER AND AUXILIARIES PLANS

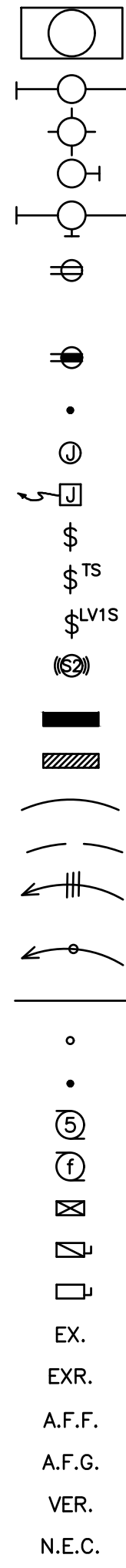
Sheet Number

BI.A/E3.2



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ELECTRICAL SYMBOLS



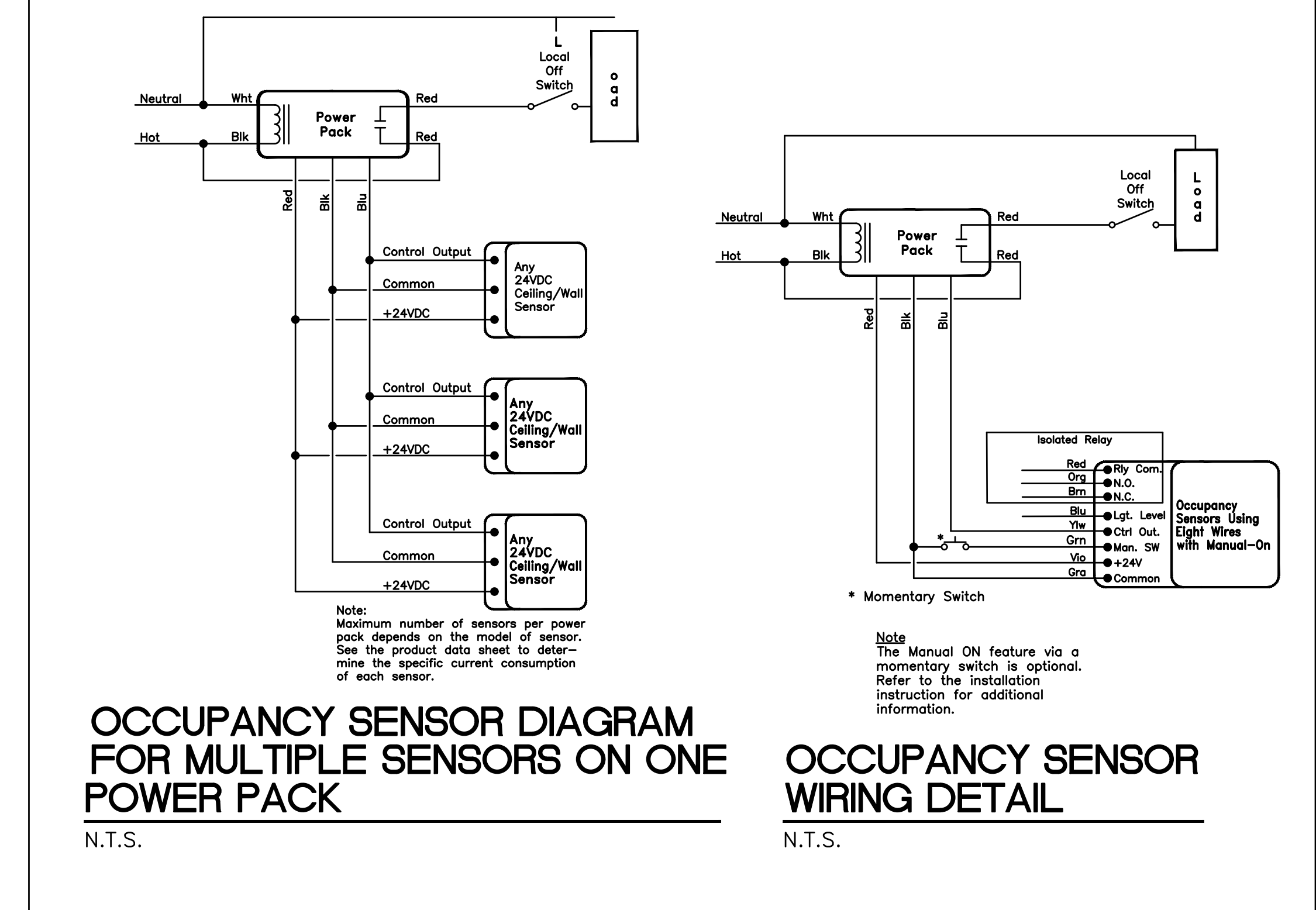
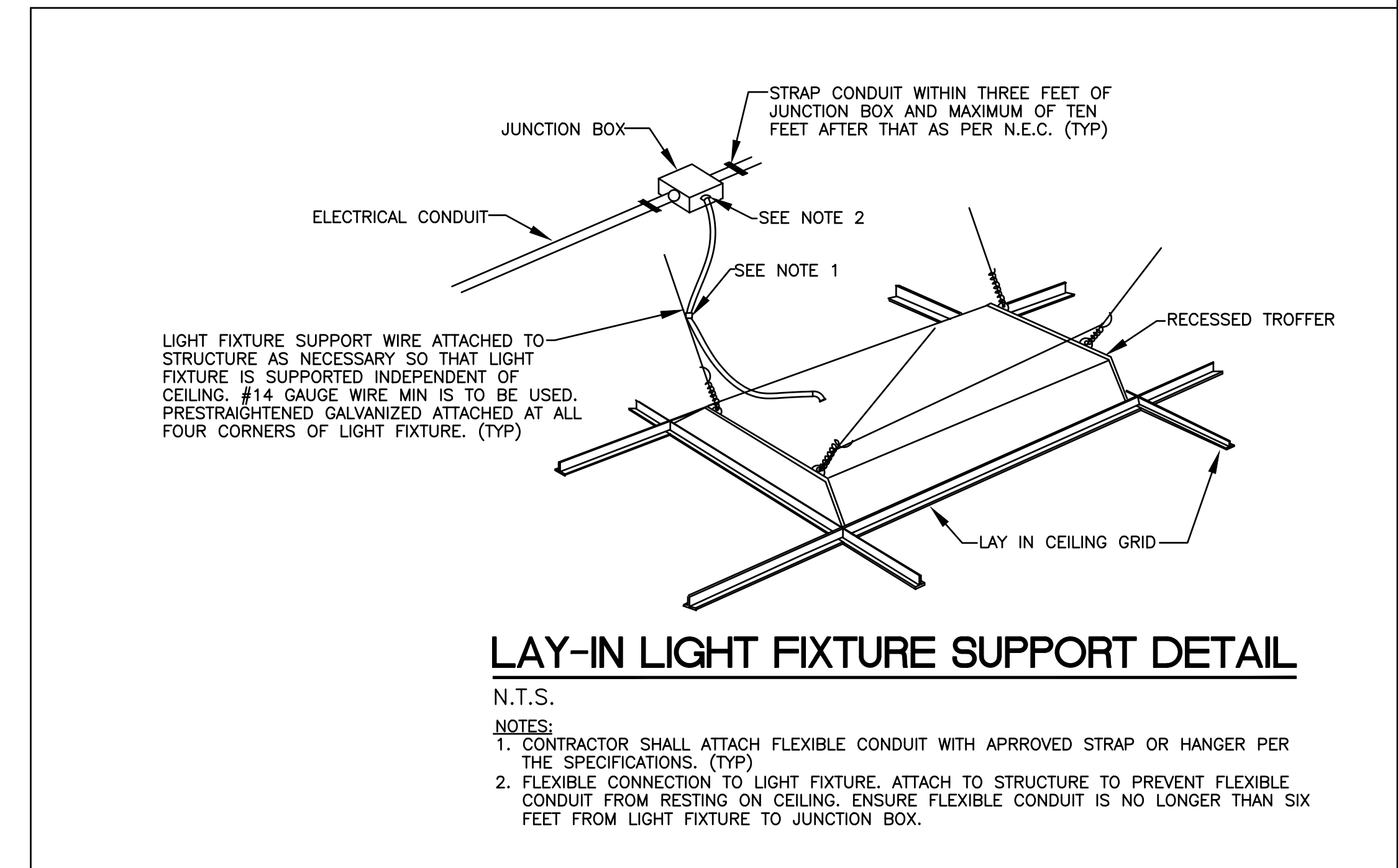
- CEILING OUTLET - RECESSED LED FIXTURE. HATCHING INDICATES LIGHT FIXTURE THAT HAS AN EMERGENCY BATTERY PACK.
- CEILING OUTLET - SURFACE OR PENDANT LED FIXTURE.
- CEILING OUTLET - SURFACE LED FIXTURE.
- WALL OUTLET - LED BRACKET TYPE.
- WALL OUTLET - LED BRACKET TYPE.
- WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, HUBBELL #5362 - GREY. ("WP" DENOTES EXTRA DUTY METAL IN-USE WEATHERPROOF COVER)
- WALL OUTLET - GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF-5362-GY - GREY WITH #5-26 PLATE. ("WP" DENOTES EXTRA DUTY METAL IN-USE WEATHERPROOF COVER)
- FLOOR OUTLET - CONDUIT STUB UP.
- CEILING OUTLET - JUNCTION BOX.
- WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY. ("N" DENOTES NARROW)
- SWITCH OUTLET/TIMER - TIME SWITCH WITH ON/OFF BUTTON, WATT STOPPER TS-400-G OR EQUAL.
- SWITCH OUTLET - LOW VOLTAGE SWITCH FOR "MANUAL ON" ONLY. SENSOR SWITCH SP0DM-SA OR EQUAL.
- CEILING/WALL SENSOR - DUAL TECHNOLOGY CEILING SENSOR. SENSOR SWITCH CM PDT SERIES WITH POWER PACK OR EQUAL.
- LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
- POWER PANELS - SEE SPECIFICATIONS AND SCHEDULE.
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
- BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
- HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT.
3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT.
- EMPTY CONDUIT - 3/4".
- BRANCH CIRCUIT EXPOSED.
- CONDUIT RUN DOWN WALLS, CONCEALED
- CONDUIT RUN UP WALLS, CONCEALED
- MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
- EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
- MAGNETIC MOTOR STARTER.
- NON-FUSED DISCONNECT SWITCH. (RT - RAINLIGHT).
- FUSED DISCONNECT SWITCH. (RT - RAINLIGHT).
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED, UNLESS OTHERWISE NOTED.
- ABOVE FINISHED FLOOR.
- ABOVE FINISHED GRADE.
- VERIFY LOCATION.
- NATIONAL ELECTRICAL CODE.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
8. MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
WALL SWITCHES.....4'-0" (TO CENTER OF BOX)
RECEPTACLES.....1'-6" (TO CENTER OF BOX)
9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
10. VERIFY ALL DOOR SWINGS WITH THE ARCHITECT BEFORE ROUGHING IN LIGHT SWITCHES.
11. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH-IN.
12. BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
13. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
14. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
15. SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
16. COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
17. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER N.E.C.
18. CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC-FLASH WARNING LABELS PER NEC 110.16.
19. CONTRACTOR SHALL PAINT NEW CONDUIT TO MATCH EXISTING CEILING AND WALLS WHERE IT IS EXPOSED.
20. VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE ARCHITECT AND THE OWNER PRIOR TO ROUGH-IN.

DEMOLITION NOTES

1. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
2. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
3. REMOVE ELECTRICAL EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY.
4. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
5. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
6. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
7. DISCONNECT AND REMOVE ABANDONED DISTRIBUTION EQUIPMENT.
8. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
9. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
10. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
11. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
12. REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.



LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
A10	LITHONIA	2BLTX4-40L-ADP-120-EZ1-LP850-EL14L-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A11	LITHONIA	2BLTX4-60L-ADP-120-EZ1-LP850-EL14L-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A12	LITHONIA	BLTX4-40L-ADP-120-EZ1-LP850-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A13	LITHONIA	BLTX4-40L-ADP-120-EZ1-LP850-EL14L-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A14	LITHONIA	BLTX4-60L-ADP-120-EZ1-LP850-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A15	LITHONIA	BLTX4-60L-ADP-120-EZ1-LP850-EL14L-GMF	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A16	LITHONIA	2BLT4-60L-ADP-120-EZ1-LP850-GMF	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-3/8"	SEE NOTE 2
A17	LITHONIA	2BLT4-60L-ADP-120-EZ1-LP850-EL14L-GMF	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-3/8"	SEE NOTE 2
A18	LITHONIA	2BLT4-40L-ADP-120-EZ1-LP850-GMF	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-3/8"	SEE NOTE 2
A22	LITHONIA	VAP-4000LM-FST-WD-120-GZ10-50K-80CRI-WLFEND2	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
A23	LITHONIA	VAP-4000LM-FST-WD-120-GZ10-50K-80CRI-E15WCP-WLFEND2	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
D13	LITHONIA	ZL1D1-48-5000LM-FST-120-50K-80CRI-E7W-WH	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
D15	LITHONIA	FMML-7-8-35-VL	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 2
F4	ECLIPSE	AS-XL2-HR-PGC-(LED 40W)-5K-UNV-WH-FUS	FURNISHED WITH FIXTURE			ABOVE MIRROR	SURFACE		SEE NOTES 1 & 2
F5	ECLIPSE	AS-XL-HR-PGC-(LED 20W)-5K-UNV-WH-FUS-ELBW	FURNISHED WITH FIXTURE			ABOVE MIRROR	SURFACE		SEE NOTES 1 & 2
F7	LITHONIA	BLWP4-40L-ADP-120-EZ1-LP850-QMB	FURNISHED WITH FIXTURE			MATCH EXISTING	WALL		SEE NOTE 2
F8	LITHONIA	BLWP4-40L-ADP-120-EZ1-LP850-EL14L-QMB	FURNISHED WITH FIXTURE			MATCH EXISTING	WALL		SEE NOTE 2
G8	BROAN	QT130LE	FURNISHED WITH FIXTURE			CEILING	RECESSED	7-5/8"	
X	LITHONIA	LES-R-120-ELN	FURNISHED WITH FIXTURE			ABOVE DOOR/CEILING	SURFACE		SEE NOTE 2

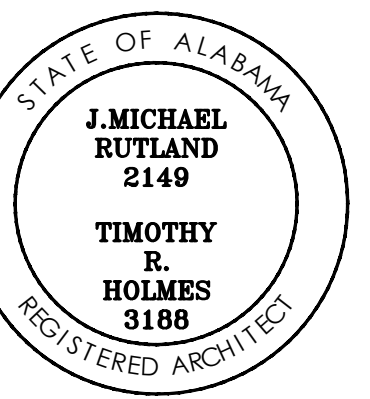
- NOTES:
1. VERIFY FINISH WITH ARCHITECT.
2. EQUALS BY DAYBRITE AND COLUMBIA WILL BE ACCEPTABLE.

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FMTC BUILDING 1021 HVAC RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

CONSTRUCTION DOCUMENTS

Project Number: 23-1337

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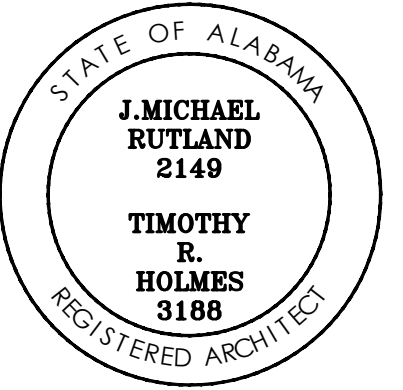
SYMBOLS, NOTES, LIGHTING FIXTURE SCHEDULE AND DETAILS

Sheet Number

BI.B/E1.1



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FMTC BUILDING
1021 HVAC
RESTORATION

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

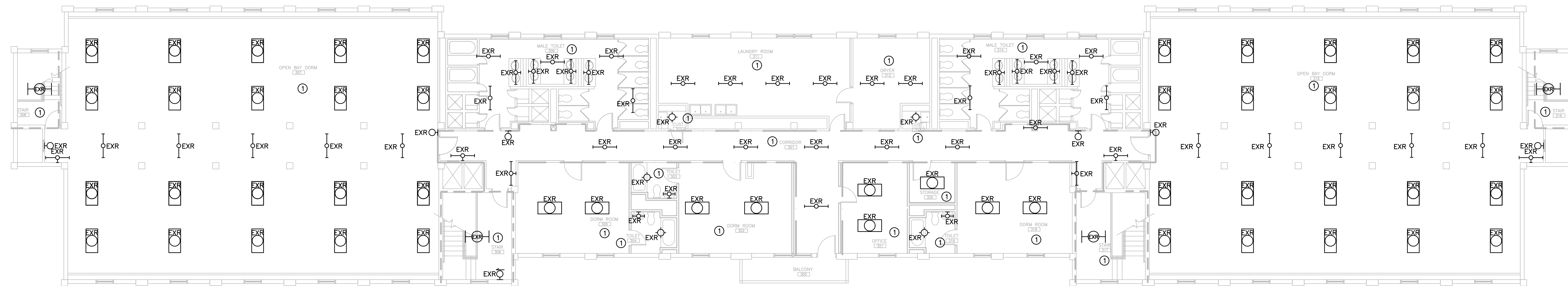
DEMOLITION KEYNOTES

① REMOVE EXISTING LIGHT FIXTURES AND DISCARD PER LOCAL, STATE AND FEDERAL LAWS/REGULATIONS. INSTALL NEW LIGHT FIXTURES PER REVISED LIGHTING PLAN.



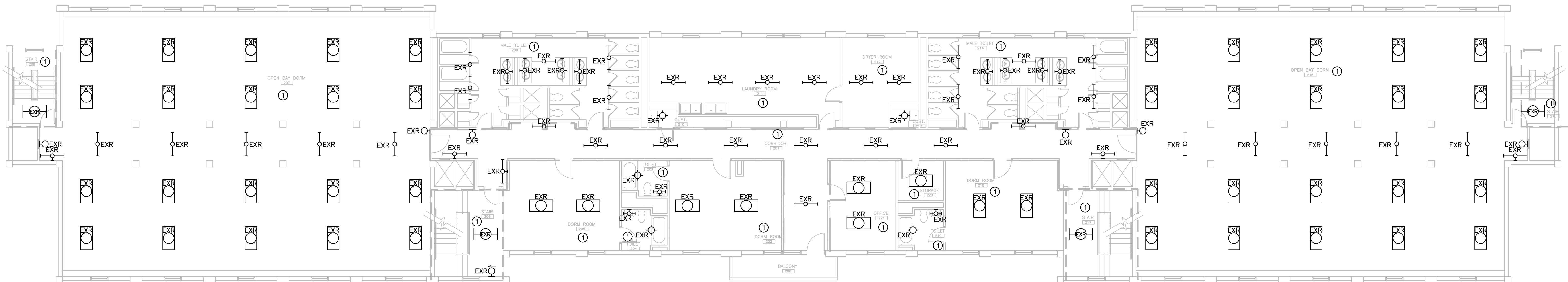
PENTHOUSE DEMOLITION LIGHTING PLAN

SCALE: 1/8" = 1'-0"



THIRD FLOOR DEMOLITION LIGHTING PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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Project Number: 23-1337
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Revisions:

Sheet Description

DEMOLITION LIGHTING PLANS

Sheet Number

BI.B/E2.1

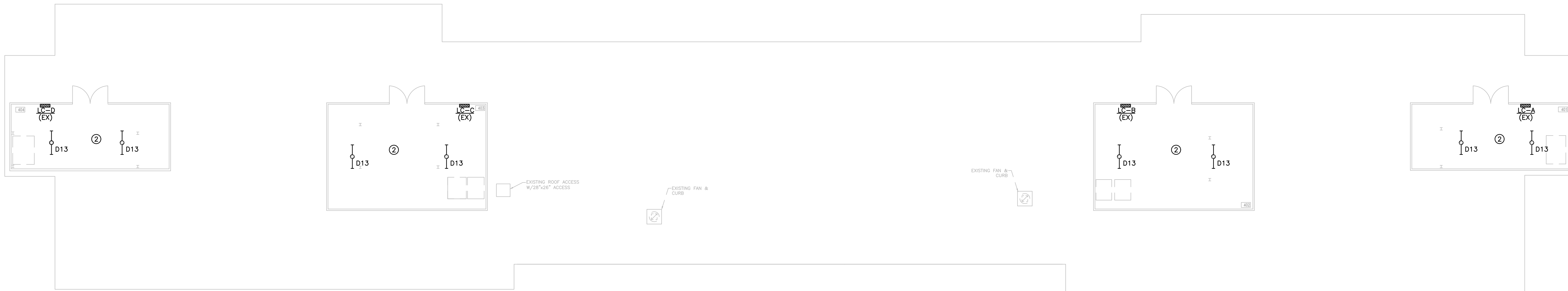


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RENOVATION KEYNOTES:

- ① CONTRACTOR SHALL REPLACE EXISTING FIXTURES WITH NEW FIXTURES AS SCHEDULED. THE CONTRACTOR SHALL FURNISH AND INSTALL OCCUPANCY SENSORS IN ALL ROOMS/SPACES INDICATED. OCCUPANCY SENSOR LOCATIONS, QUANTITIES AND TYPES SHOULD BE VERIFIED WITH MANUFACTURER PRIOR TO BIDDING. THE MANUFACTURER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PROVIDE COVERAGE FOR ALL ROOMS/SPACES INDICATED. THE TIME DELAYS FOR THE SENSORS SHALL BE COORDINATED WITH THE OWNER. CONTRACTOR SHALL CIRCUIT EXISTING SWITCHES TO POWER PACKS FOR OVERRIDE OFF CONTROL OF LIGHTS WHERE LOW VOLTAGE SWITCHING AND DIMMING ARE NOT INDICATED. WHERE 3-WAY SWITCHING EXISTS, ALL SWITCHES SHALL PROVIDE OVERRIDE OFF CAPABILITIES. WHERE MULTI-LEVEL SWITCHING EXISTS, CONTRACTOR SHALL PROVIDE SLAVE POWER PACKS TO MAINTAIN MULTI-LEVEL SWITCHING. CONTRACTOR SHALL ENSURE A HOT LEG IS ROUTED TO ALL EMERGENCY BATTERY PACKS AND EXIT SIGNS. WHERE NEW EXIT SIGNS ARE SHOWN, CONTRACTOR SHALL CIRCUIT INTO THE ROOM LIGHTS, AHEAD OF ANY SWITCHING.
- ② CONTRACTOR SHALL REPLACE EXISTING FIXTURES WITH NEW FIXTURES AS SCHEDULED. CONTRACTOR SHALL ENSURE A HOT LEG IS ROUTED TO ALL EMERGENCY BATTERY PACKS.
- ③ REPLACE EXISTING SWITCH IN THIS ROOM WITH A NEW LOW VOLTAGE SWITCH AS SHOWN.

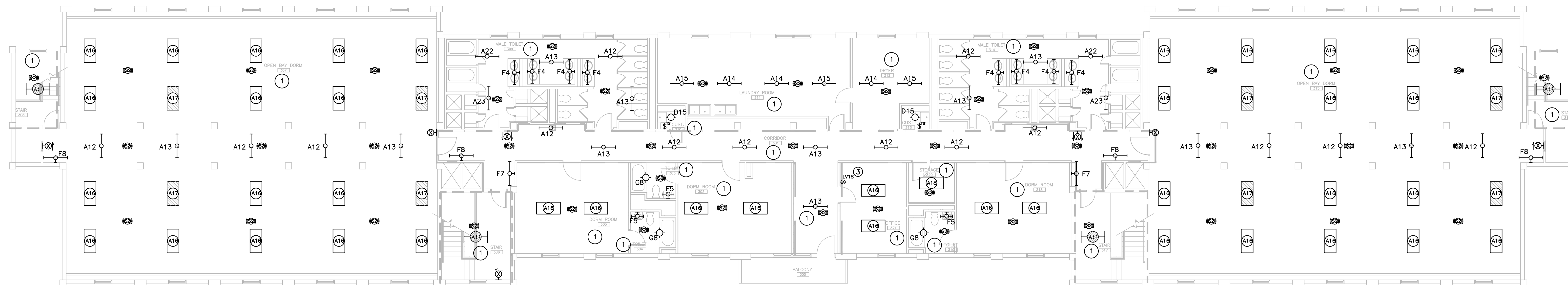
NOTE:
ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:
LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'.....#8 AWG



PENTHOUSE LIGHTING PLAN

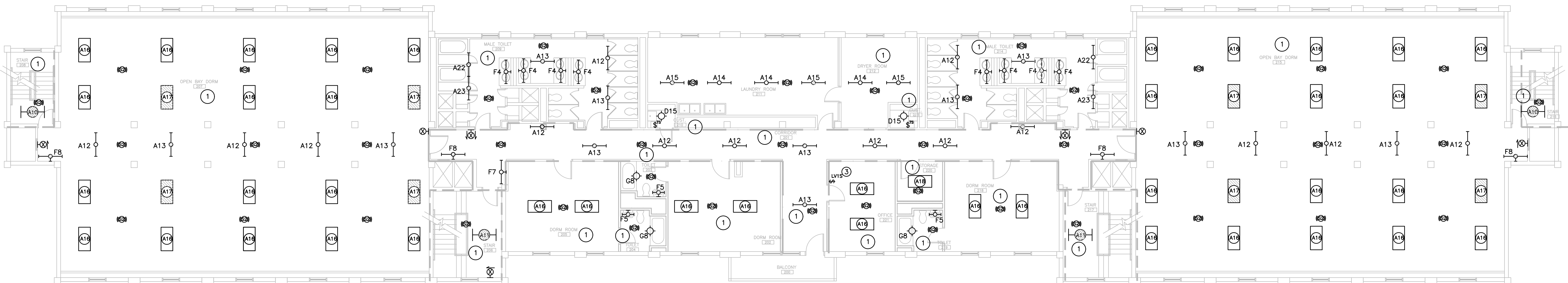
SCALE: 1/8" = 1'-0"

OCCUPANCY SENSOR LOCATIONS AND TYPES SHOWN ARE THE BASIS OF DESIGN FOR ONE MANUFACTURER AND ARE SCHEMATIC AND SHOULD BE VERIFIED WITH MANUFACTURER PRIOR TO BIDDING. OCCUPANCY SENSOR MANUFACTURER SHALL SUBMIT A LAYOUT OF RECOMMENDED SENSOR TYPES AND LOCATIONS PRIOR TO INSTALLATION. THE MANUFACTURER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PROVIDE COVERAGE FOR ALL ROOMS AND THE MANUFACTURER SHALL PROVIDE ON-SITE START-UP AND SENSOR ADJUSTMENTS AS NECESSARY TO ENSURE PROPER FUNCTION AND COVERAGE IN ALL ROOMS. THE TIME DELAYS FOR THE SENSORS SHALL BE COORDINATED WITH THE OWNER. THE MANUFACTURER SHALL INSTALL EITHER SLAVE RELAY POWER PACKS OR TWO RELAY POWER PACKS TO ENSURE THAT MULTILEVEL SWITCHING FUNCTIONS CORRECTLY IN EACH SPACE.



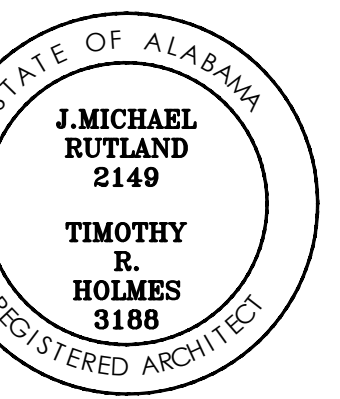
THIRD FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"



**FMTC BUILDING
1021 HVAC
RESTORATION**

ANNISTON, ALABAMA
IFB#: AC-24-B-0033-S

**CONSTRUCTION
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**SECOND FLOOR,
THIRD FLOOR AND
PENTHOUSE
LIGHTING PLANS**

Sheet Number

BI.B/E3.1



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