

# REPLACE BAS AND HVAC SYSTEM SUPERVISION CENTER BUILDING COMMUNITY SUPERVISION CENTER HANNIBAL, MISSOURI

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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**OWNER:** STATE OF MISSOURI  
MICHAEL L. PARSON,  
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DEPARTMENT OF CORRECTIONS  
AND SECONDARY EDUCATION

**PROJECT  
MANAGEMENT:** OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

**DESIGNER:** BRIC PARTNERSHIP, LLC  
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**PROJECT  
NUMBER:** C2010-01

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN AND  
CONSTRUCTION  
DEPARTMENT OF  
CORRECTIONS

PROJECT TITLE:  
REPLACE BAS & HVAC

2002 WARREN BARRETT DRIVE  
HANNIBAL, MO

PROJECT # C2010-01

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DATE: 09/22/2022  
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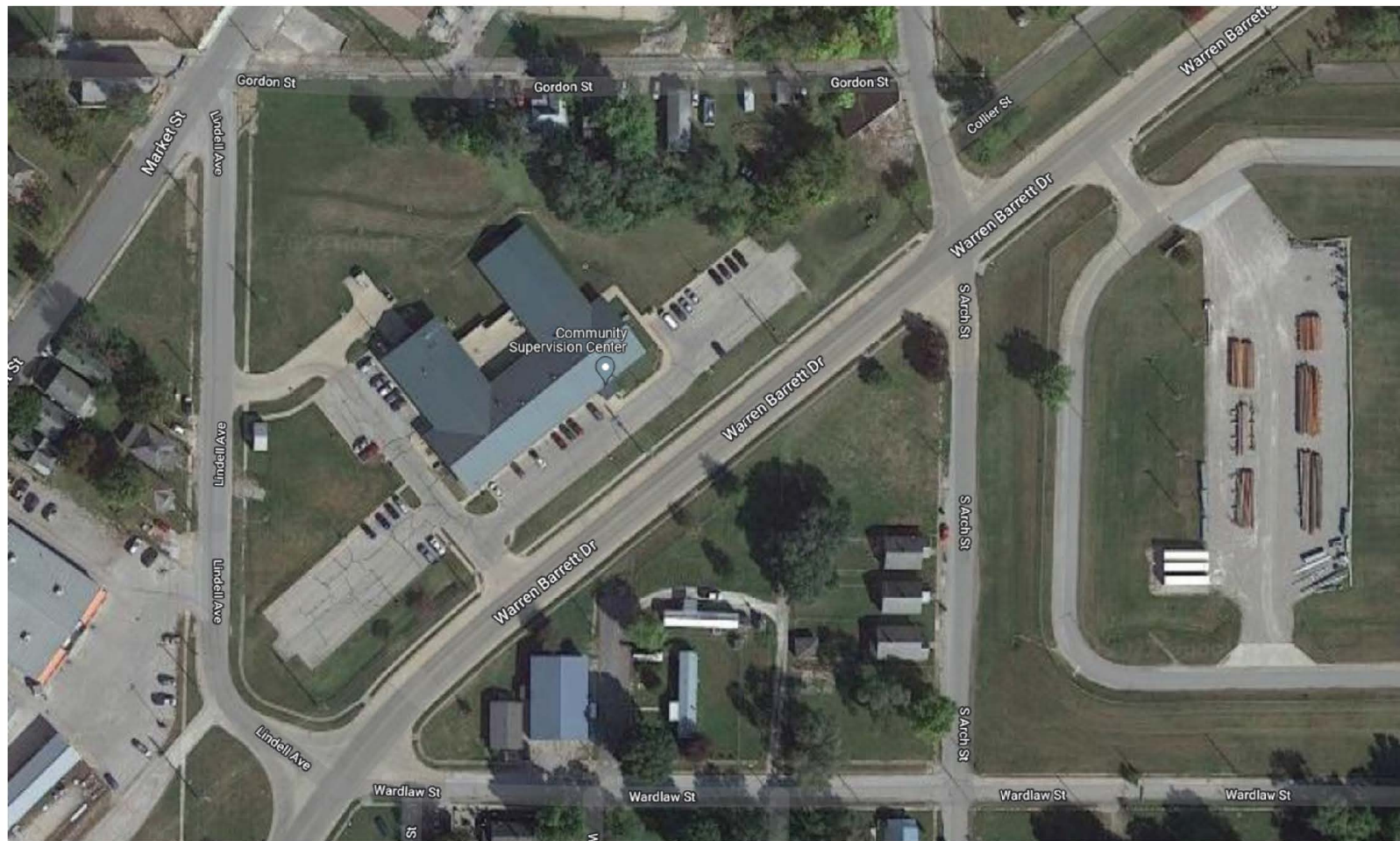
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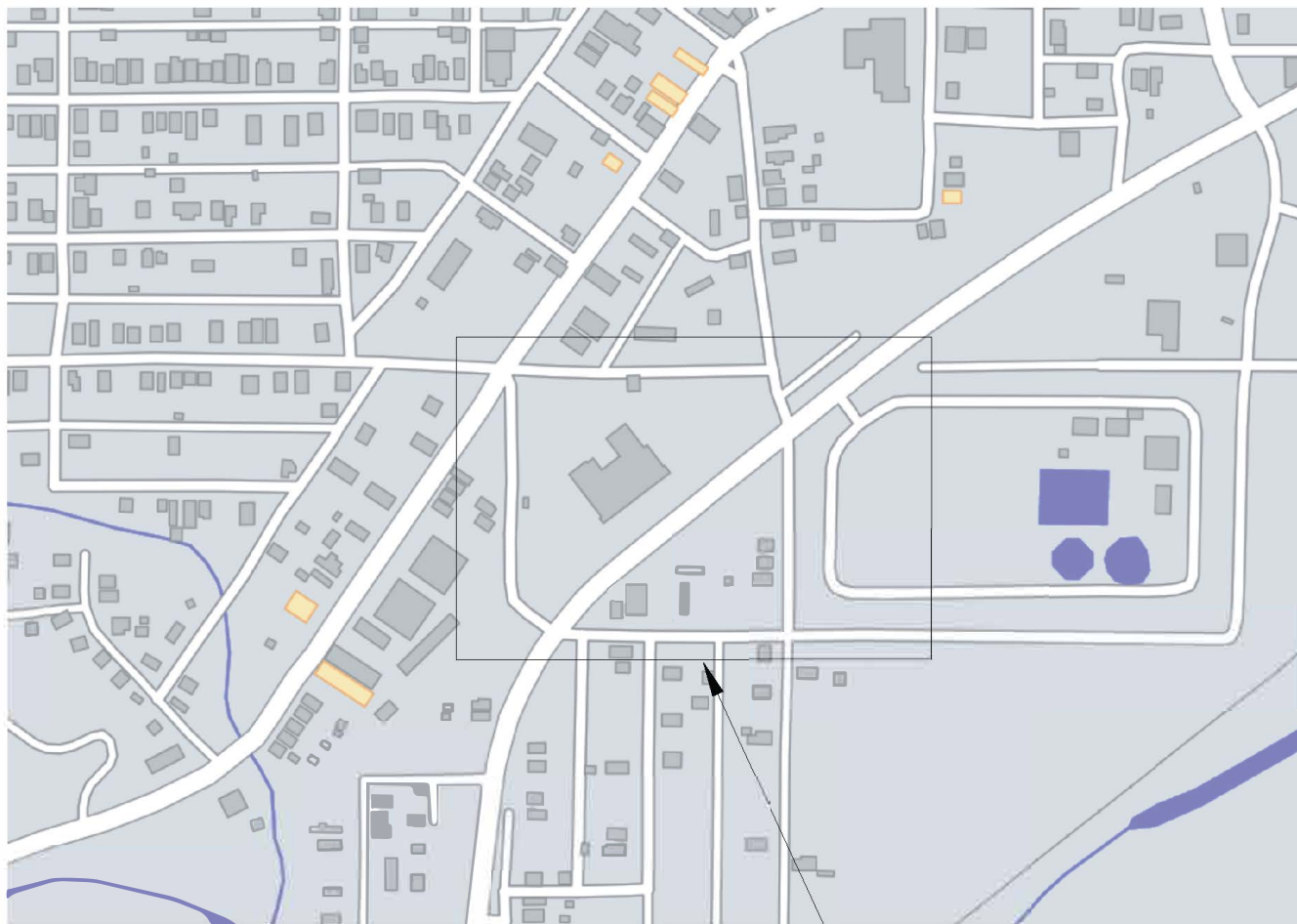
SHEET NUMBER:

G-000  
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VICINITY MAP



LOCATION MAP



VICINITY

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E-101 ENLARGED PLANS - ELECTRICAL



GENERAL NOTES (DEMOLITION)




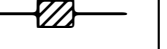


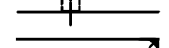
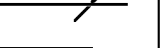

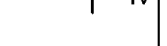


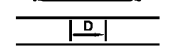
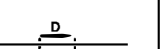
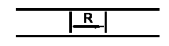
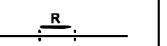


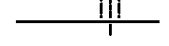
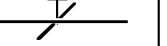


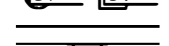
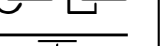





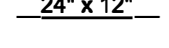



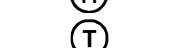

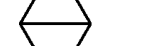





















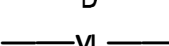




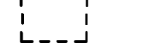
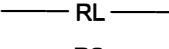


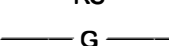

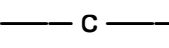

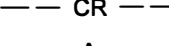

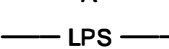



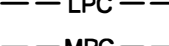





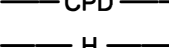







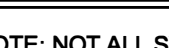

- THESE PLANS ARE DIAGRAMMATIC IN NATURE. SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
- ITEMS SHOWN BOLD AND/OR DASHED ON THE DEMOLITION SHEETS INDICATE ITEMS TO BE REMOVED.
- CROSS HATCHING INDICATES ITEMS TO BE REMOVED.
- OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. CONTRACTOR TO DISPOSE OF EQUIPMENT BEING REMOVED BUT NOT RETAINED BY OWNER.

GENERAL NOTES (HYDRONIC)

- THE CONTRACTOR SHALL COORDINATE SYSTEM SHUT-DOWNS WITH THE FACILITY. PROVIDE A MINIMUM TWO DAY NOTICE PRIOR TO ANY SYSTEM SHUT-DOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING, FILLING, AND VENTING OF ALL HYDRONIC SYSTEMS IMPACTED BY THIS PROJECT.
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- ANY HOLES LEFT IN EXISTING WALL CONSTRUCTION DUE TO DEMOLITION OR NEW WORK SHALL BE PATCHED TO MATCH EXISTING CONDITIONS.
- CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY DEMOLITION OR NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
- ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
- ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO AIR HANDLING UNIT.
- ANY DAMAGE TO THE SITE (SIDEWALKS, CURBS, ETC) OR TO THE BUILDING AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE FIXED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.

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HEATING AND AIR CONDITIONING		PIPING SPECIALTIES		ABBREVIATIONS	
	SA SOUND ATTENUATOR		GV GATE VALVE	F.F.E.	FINISH FLOOR ELEVATION
	FC FLEXIBLE CONNECTION		CV CHECK VALVE	A.F.F.	ABOVE FINISH FLOOR
	VD VOLUME DAMPER		GLV GLOBE VALVE	T.E.	TOP ELEVATION
	TV TURNING VANES		BLV BALL VALVE	B.E.	BOTTOM ELEVATION
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT		STR STRAINER	F.L.	FLOW LINE
	DISCHARGE OR SUPPLY AIR DUCT		U UNION	INV.	INVERT ELEVATION
	INCLINED DROP IN THE DIRECTION OF AIR FLOW		BC BALANCING COCK	CL	CENTER LINE
	INCLINED RISE IN THE DIRECTION OF AIR FLOW		SOC SHUT-OFF COCK	G.C.C.	GENERAL CONSTRUCTION CONTRACTOR
	FIRE DAMPER (F) SMOKE DAMPER (S)		SLV SOLENOID VALVE	H.A.C.	HEATING & AIR CONDITIONING CONTRACTOR
	MD MOTORIZED DAMPER (ELECTRIC OR PNEUMATIC)		BFV BUTTERFLY VALVE	P.C.	PLUMBING CONTRACTOR
	FXD FLEXIBLE DUCT		FS FLOW SWITCH	E.C.	ELECTRICAL CONTRACTOR
	CEILING AIR DEVICE		VALVE W/ SUPERVISORY SWITCH	A.C.S.	AUTOMATIC CONTROL SUB-CONTRACTOR
	SIDEWALL AIR DEVICE		FCV FLOW CONTROL VALVE (GPM INDICATED)	F.P.C.	FIRE PROTECTION CONTRACTOR
DUCT SIZE DESIGNATION: (1st FIGURE SIDE SHOWN. SIDE SHOWN IS SHEET METAL SIZE, ALLOWANCE HAS BEEN MADE FOR INTERIOR INSULATION WHERE SPECIFIED.)			T&PR TEMPERATURE AND PRESSURE RELIEF VALVE	H.S.C.	HALON SUB-CONTRACTOR
	H HUMIDISTAT		PG PRESSURE GAUGE	K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
	T THERMOSTAT		TH THERMOMETER (TUBE OR DIAL AS INDICATED)	MISCELLANEOUS	
	TN THERMOSTAT NITE		PRV PRESSURE REDUCING VALVE	EQUIPMENT OR PLUMBING FIXTURE DESIGNATION	
	CWS CONDENSING WATER SUPPLY		DIRECTION OF FLOW		(RISER INDICATION P=PLUMBING, P =KITCHEN, P =ACID)
	CWR CONDENSING WATER RETURN		PIPE GUIDES		RISER DESIGNATION
	DTS DUAL TEMPERATURE SUPPLY		MV MOTORIZED VALVE		(RISER NUMBER)
	DTR DUAL TEMPERATURE RETURN		DV DIAPHRAM VALVE		(DETAIL NUMBER)
	FOS FUEL OIL SUPPLY		LPV LUBRICATED VALVE		DETAIL DESIGNATION
	FOR FUEL OIL RETURN		HEV HOSE END VALVE		(SECTION NUMBER)
	FOV FUEL OIL VENT		SWV STOP AND WASTE VALVE		SECTION DESIGNATION
	MWL MAKE - UP WATER LINE		TWV 3 - WAY VALVE (MIXING OR BY-PASS AS INDICATED)		KEYED NOTES
	D DRAIN LINE (OTHER THAN PLUMBING)		RV RELIEF VALVE		REVISIONS
	VL VENT LINE (OTHER THAN PLUMBING)		FC FLEXIBLE PIPE CONNECTION		AP ACCESS PANEL
	RD REFRIGERANT DISCHARGE		AVM AIR VENT (MANUAL)		NEW CONNECTION
	RL REFRIGERANT LIQUID		AVA AIR VENT (AUTOMATIC)		
	RS REFRIGERANT SUCTION		EX EXPANSION JOINT		
	G GAS		CCR CONCENTRIC REDUCER		
	C CHILLED WATER SUPPLY		TEE (SIDE OUTLET UP)		
	CR CHILLED WATER RETURN		TEE (SIDE OUTLET DOWN)		
	A COMPRESSED AIR		ELBOW (TURNED UP)		
	LPS LOW PRESSURE STEAM		ELBOW (TURNED DOWN)		
	MPS MEDIUM PRESSURE STEAM		BMD COMBINATION BALANCING & MEASURING DEVICE		
	LPC LOW PRESSURE CONDENSATE		ECR ECCENTRIC REDUCER		
	MPC MEDIUM PRESSURE CONDENSATE		FMD FLOW MEASURING DEVICE		
	HPS HIGH PRESSURE STEAM		STEAM TRAP		
	HPC HIGH PRESSURE CONDENSATE				
	CPD CONDENSATE PUMP DISCHARGE				
	H HOT WATER SUPPLY				
	HR HOT WATER RETURN				

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED.

PHASING NOTE:

THE JOB SHALL BE PHASED SUCH THAT ONLY ONE AIR HANDLING UNIT SHALL BE DOWN AT A TIME.

STATE OF MISSOURI  
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PROFESSIONAL SEAL

**BRiC**  
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NOW PART OF



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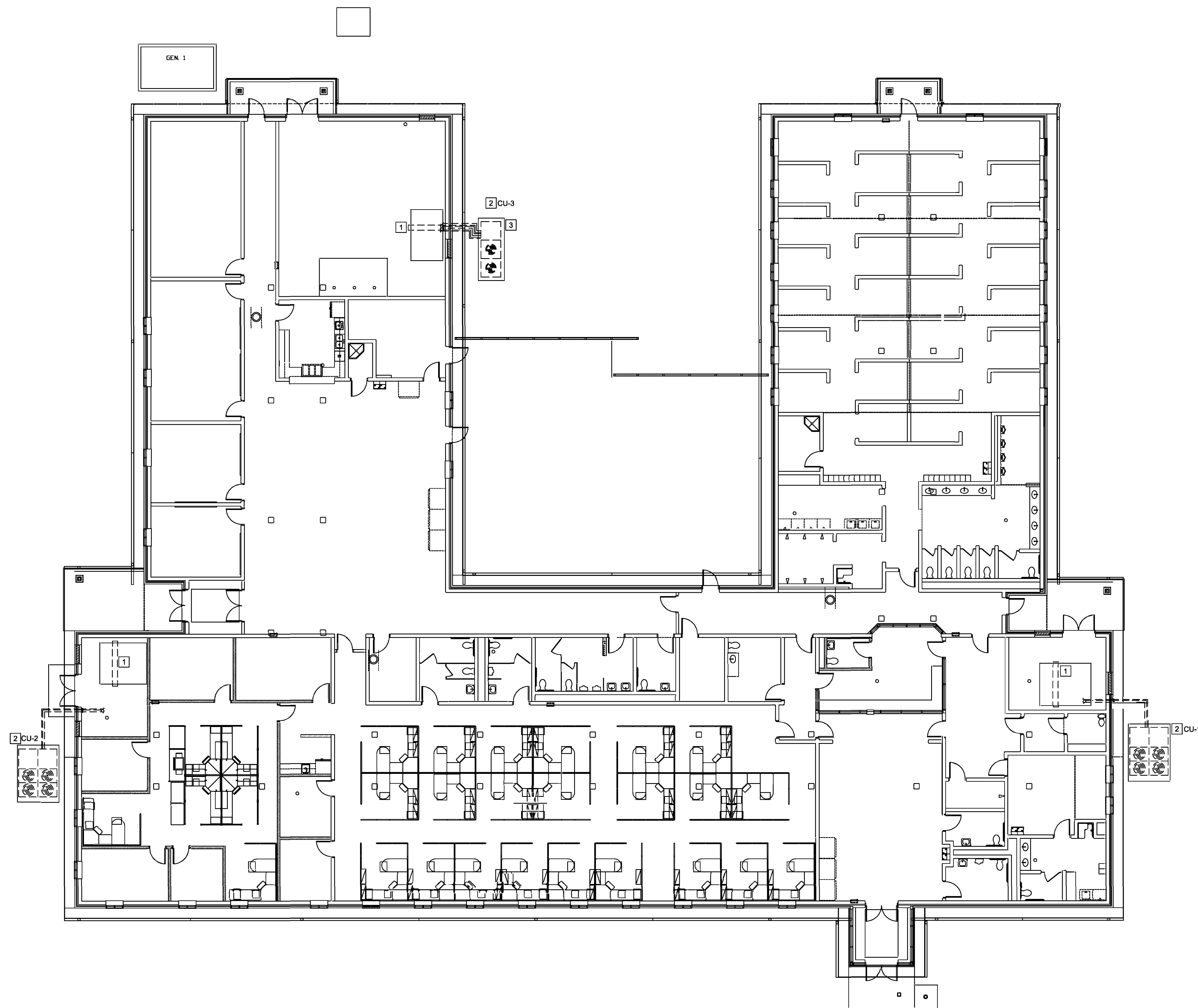
MECHANICAL  
SYMBOLS  
AND LEGEND

SHEET NUMBER:

M-001

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7/1/22





- KEYED NOTES**
- 1 DISCONNECT AND REMOVE EXISTING DX COOLING COIL IN AIR HANDLING UNIT. A NEW CHILLED WATER COIL WILL BE INSTALLED IN THIS AIR HANDLING UNIT. SEE NEW WORK DRAWINGS.
  - 2 DISCONNECT AND REMOVE EXISTING DX CONDENSING UNIT, AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. PATCH REMAINING BUILDING OPENINGS TO MATCH EXISTING.
  - 3 REMOVE EXISTING CONCRETE PAD. BACKFILL REMAINING HOLE. COVER WITH GRASS SEED AND STRAW

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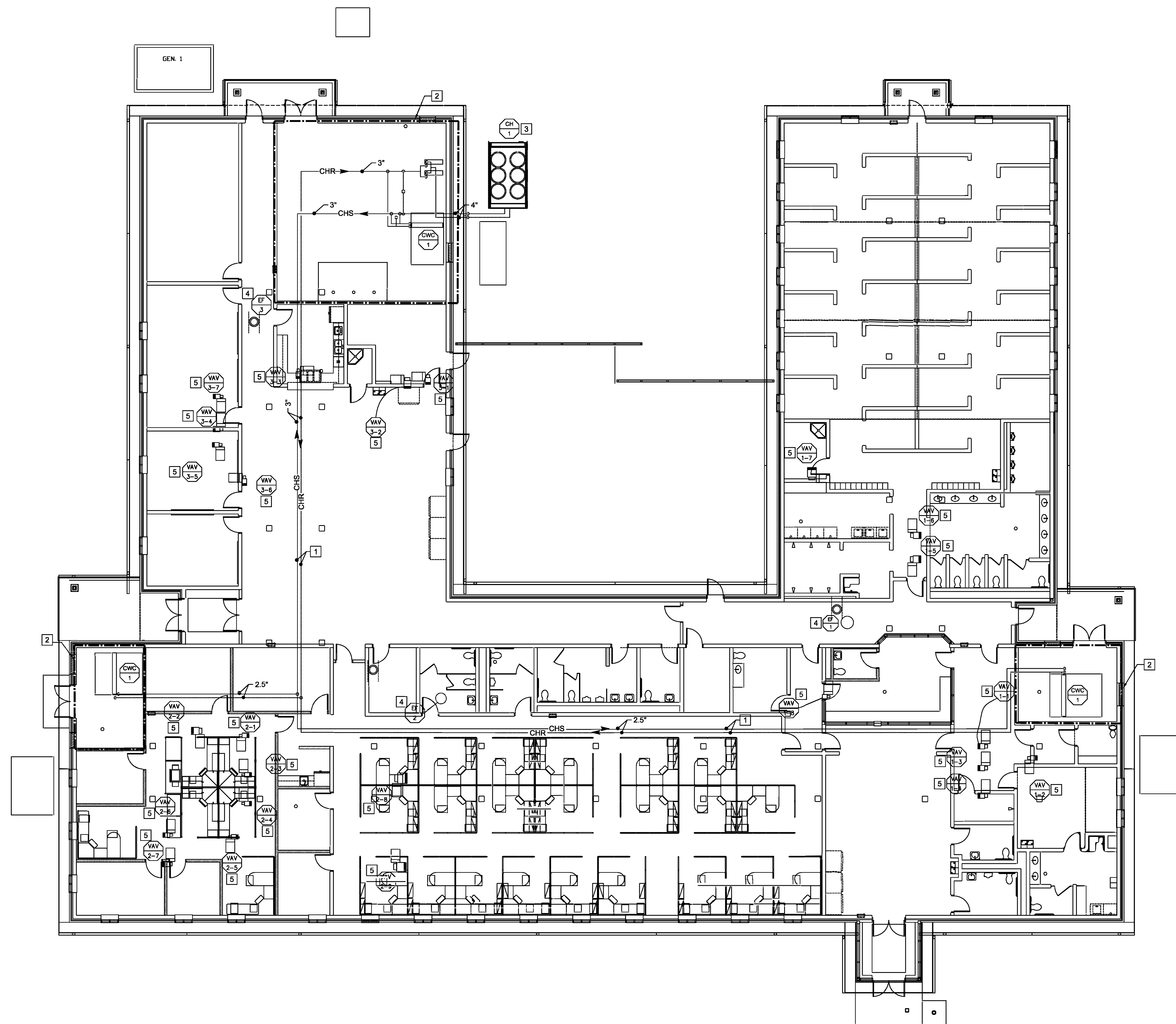
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**MECHANICAL  
DEMOLITION**

SHEET NUMBER:

**MD-101**  
3 OF 13 SHEETS  
7/1/22



**MECHANICAL FLOOR PLAN**  
SCALE: 3/32" = 1'-0"



- KEYED NOTES
- 1 CHILLED WATER PIPING ROUTED THROUGH ATTIC SPACE. SEAL WALL PENETRATIONS THROUGH FIRE WALLS TO MAINTAIN FIRE RATING.
  - 2 SEE MECHANICAL ROOM DETAILS ON M-401
  - 3 NEW CHILLER ON NEW CONCRETE PAD
  - 4 CONNECT EXISTING EXHAUST FAN TO BMS
  - 5 CONNECT EXISTING VAV BOX TO BMS. EXISTING CONTROLLER, WIRING AND TSTAT MAY REMAIN.

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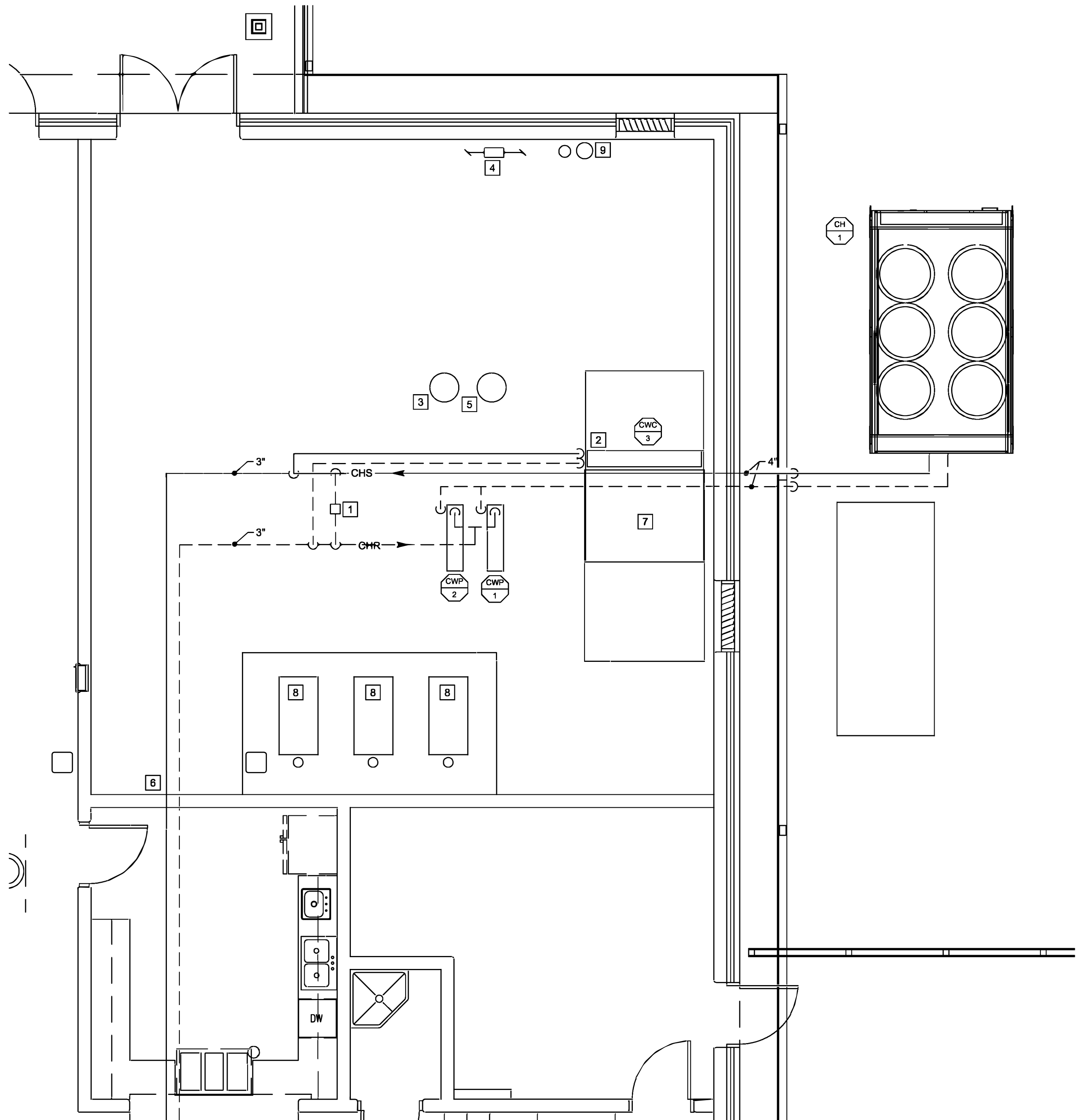
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**MECHANICAL  
FLOORPLAN**

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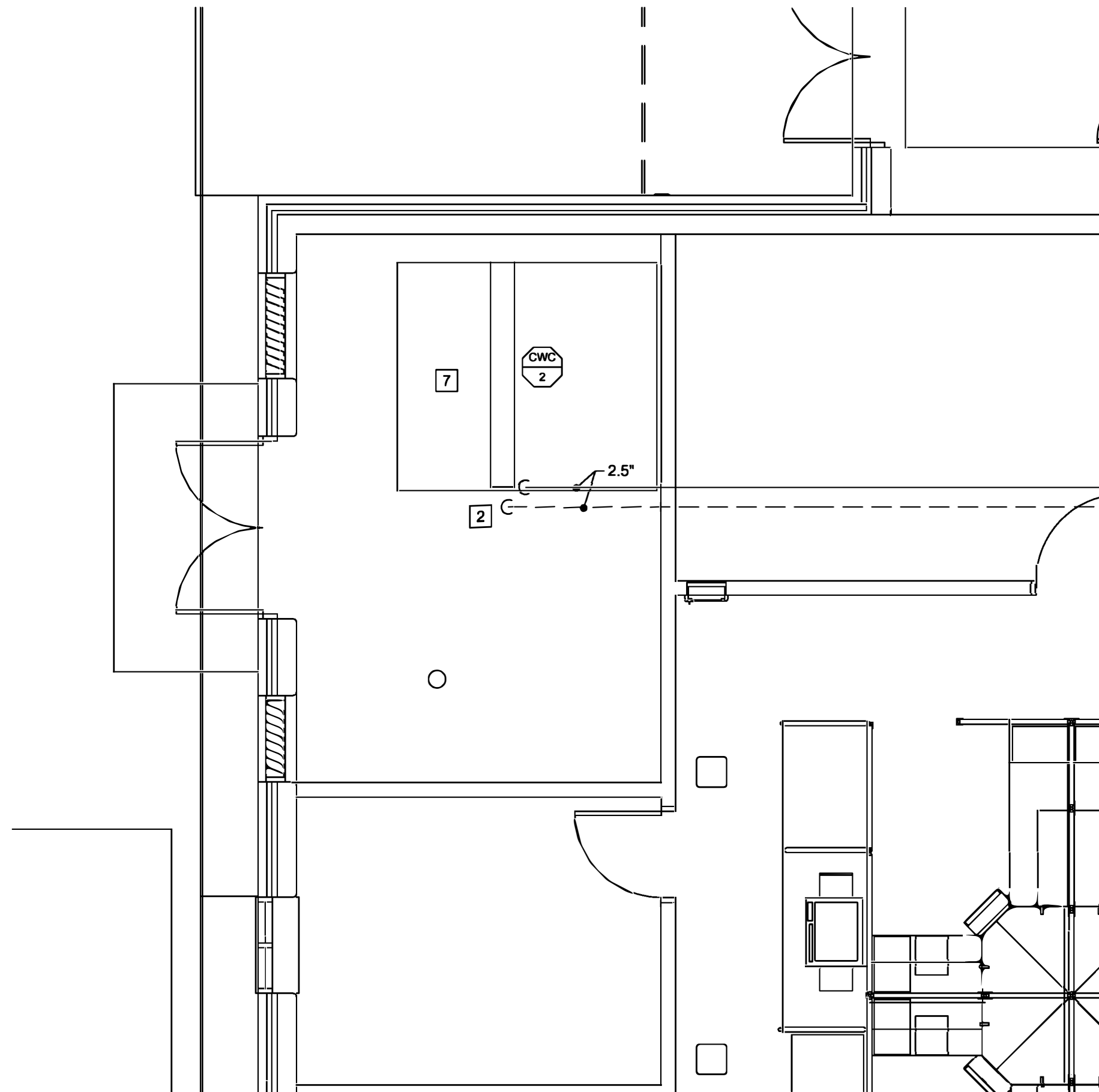


**MECHANICAL FLOOR PLAN**  
SCALE: 3/32" = 1'-0"

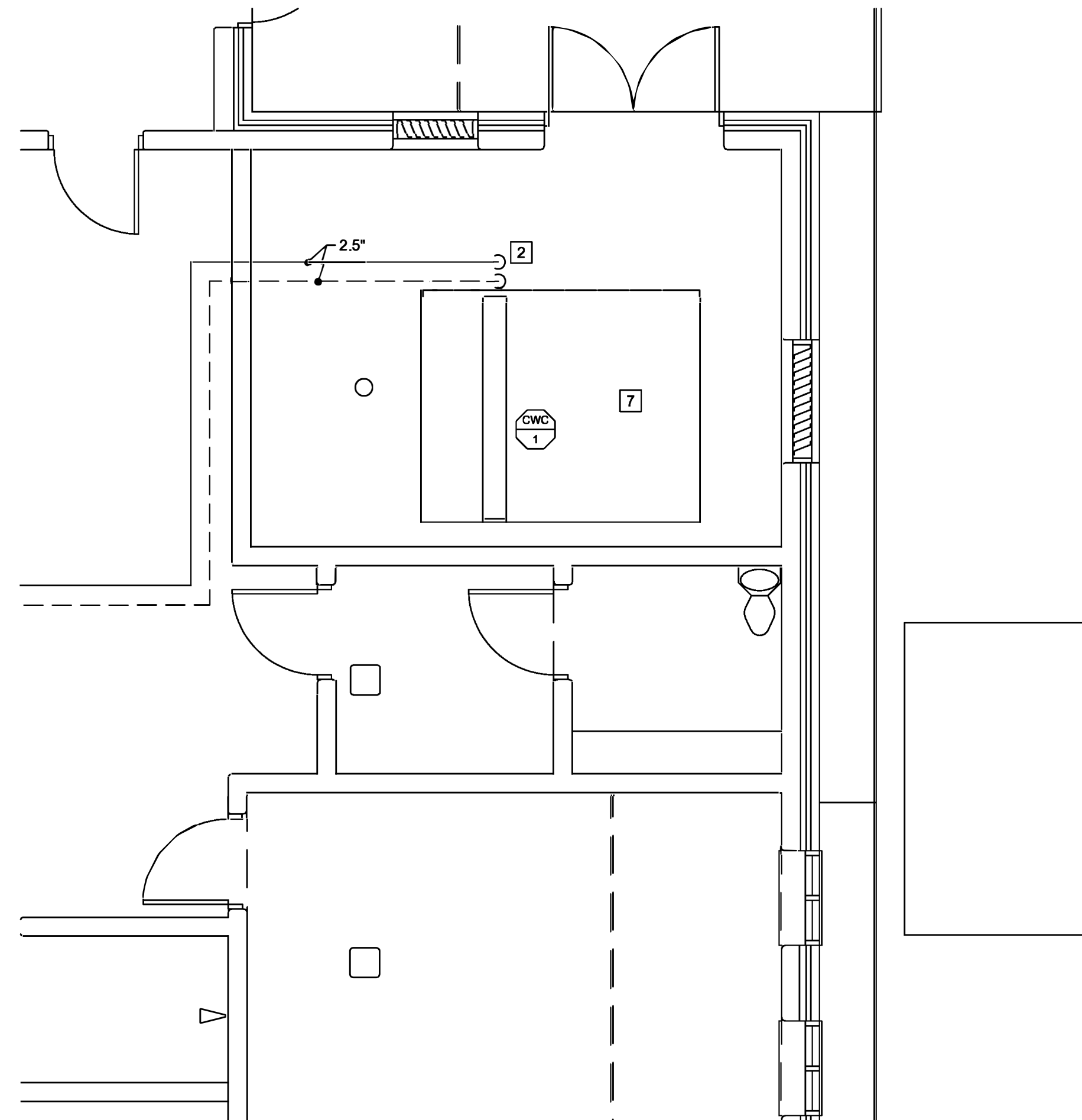




ENLARGED MECH RM - MECHANICAL  
SCALE: 1/4" = 1'-0"



ENLARGED PLAN - MECHANICAL  
SCALE: 1/4" = 1'-0"



ENLARGED PLAN - MECHANICAL  
SCALE: 1/4" = 1'-0"

KEY NOTES

- 1 CHILLED WATER BYPASS WITH MODULATING CONTROL VALVE.
- 2 NEW CHILLED WATER COIL IN EXISTING AHU. SEE DETAIL.
- 3 EXPANSION TANK XT-1. TACO CA90-125 OR EQUAL. SECURE TANK TO EQUIPMENT PAD WITH SEISMIC ANCHORS.
- 4 PROVIDE DEDICATED 3/4" BACKFLOW PREVENTER FOR MECHANICAL MAKEUP WATER. SHALL INCLUDE A 3/4" SHUT OFF BALL VALVE, A 3/4" PRESSURE REDUCING VALVE, A 3/4 " WATTS 909 BACKFLOW PREVENTER (OR EQUAL) AND A PRESSURE GAUGE ON THE MECHANICAL DISCHARGE PIPING. TIE INTO EXITING 3" DOMESTIC WATER LINE.
- 5 CHILLED WATER BUFFER TANK. TANK SHALL BE WESSELS MODEL CBT-200 (OR EQUAL) WITH INTERNAL BAFFLE AND TOP AIR VENT CONNECTION. PROVIDE AIR VENT. SECURE TANK TO EQUIPMENT PAD WITH SEISMIC ANCHORS.
- 6 CHILLED WATER PIPING THROUGH WALL INTO ATTIC SPACE.
- 7 EACH AHU WILL REQUIRE NEW BMS CONTROLLER.
- 8 CONNECT EXISTING HW SYSTEM (BOILERS AND PUMPS) TO NEW BMS.
- 9 2 GALLON CHEMICAL POT FEEDER.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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Suite 204,  
St. Louis, MO 63127  
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MISSOURI CERTIFICATE OF  
AUTHORITY #2014035826

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN AND  
CONSTRUCTION  
DEPARTMENT OF  
CORRECTIONS

PROJECT TITLE:  
REPLACE BAS & HVAC

2002 WARREN BARRETT DRIVE  
HANNIBAL, MO

PROJECT # C2010-01

REVISION: 1  
DATE: 09/22/2022  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/01/2022

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: MRH  
CHECKED BY: MRH  
DESIGNED BY: MRH

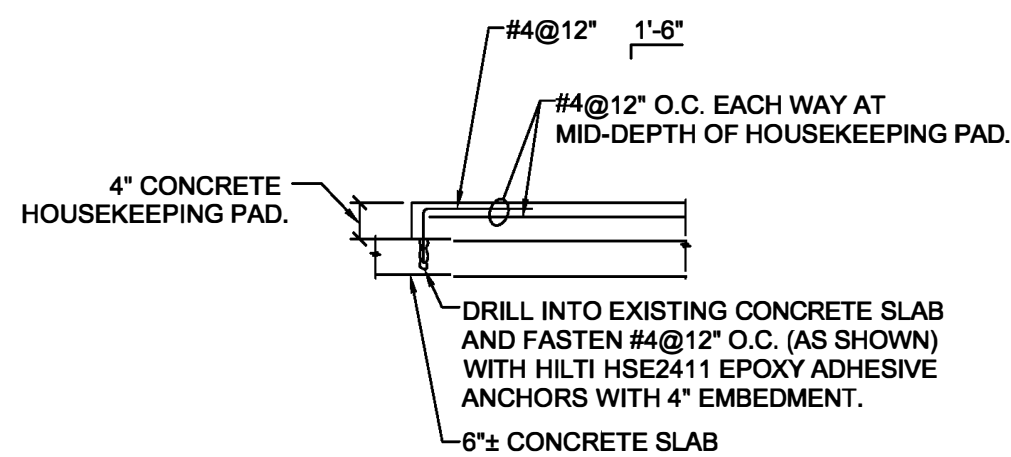
SHEET TITLE:

ENLARGED  
PLANS -  
MECHANICAL

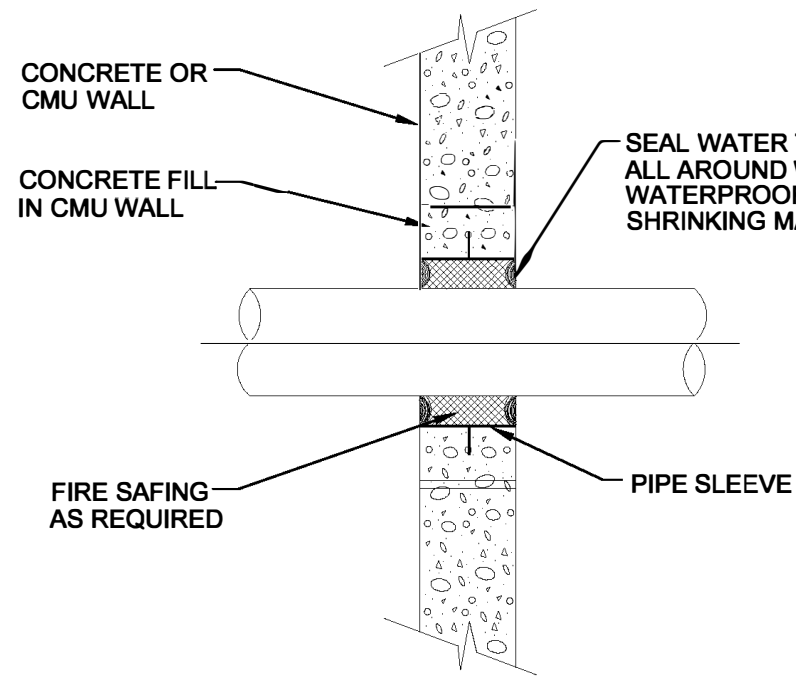
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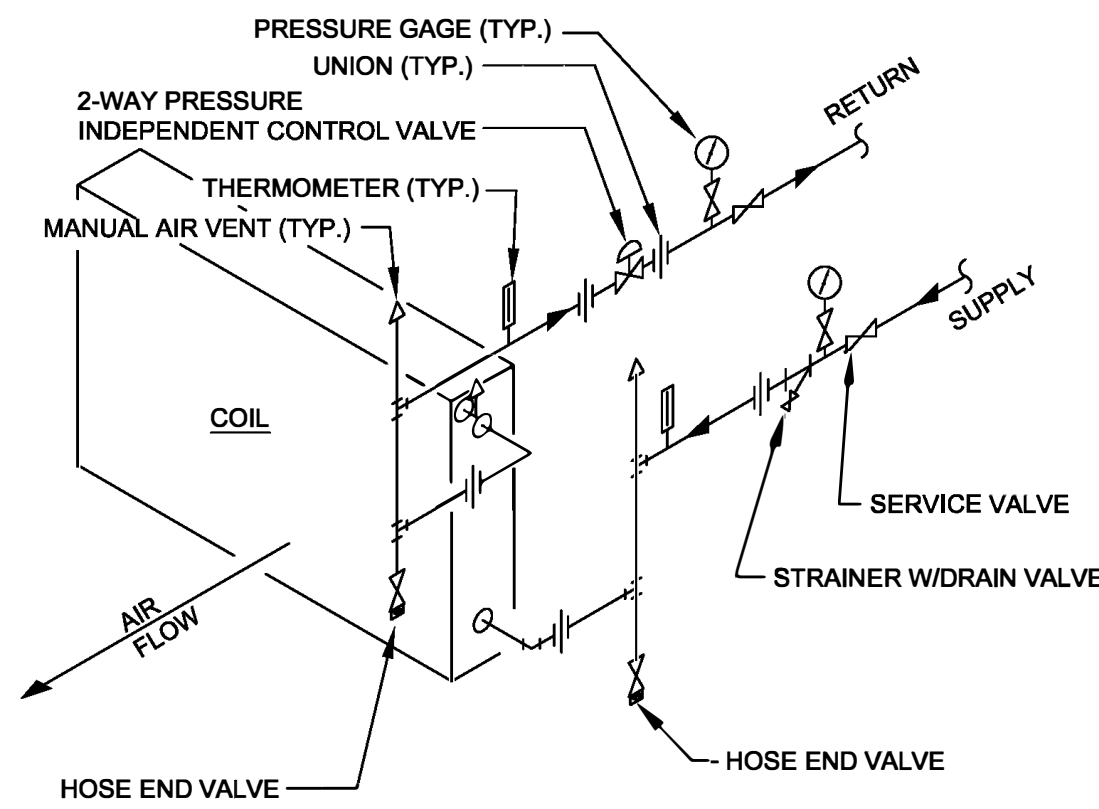
5 OF 13 SHEETS  
7/1/22



**NEW HOUSEKEEPING PAD**  
NO SCALE

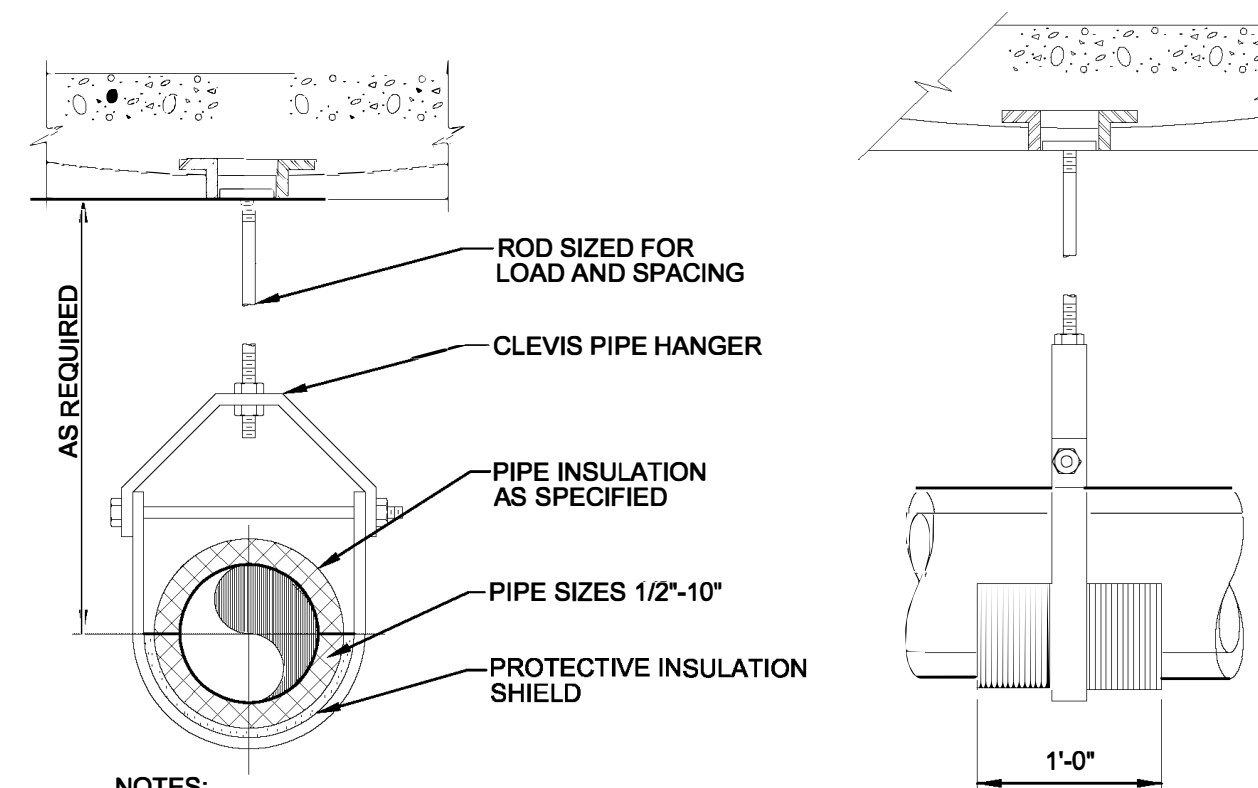


**PIPE PENETRATION THRU WALL**  
NO SCALE



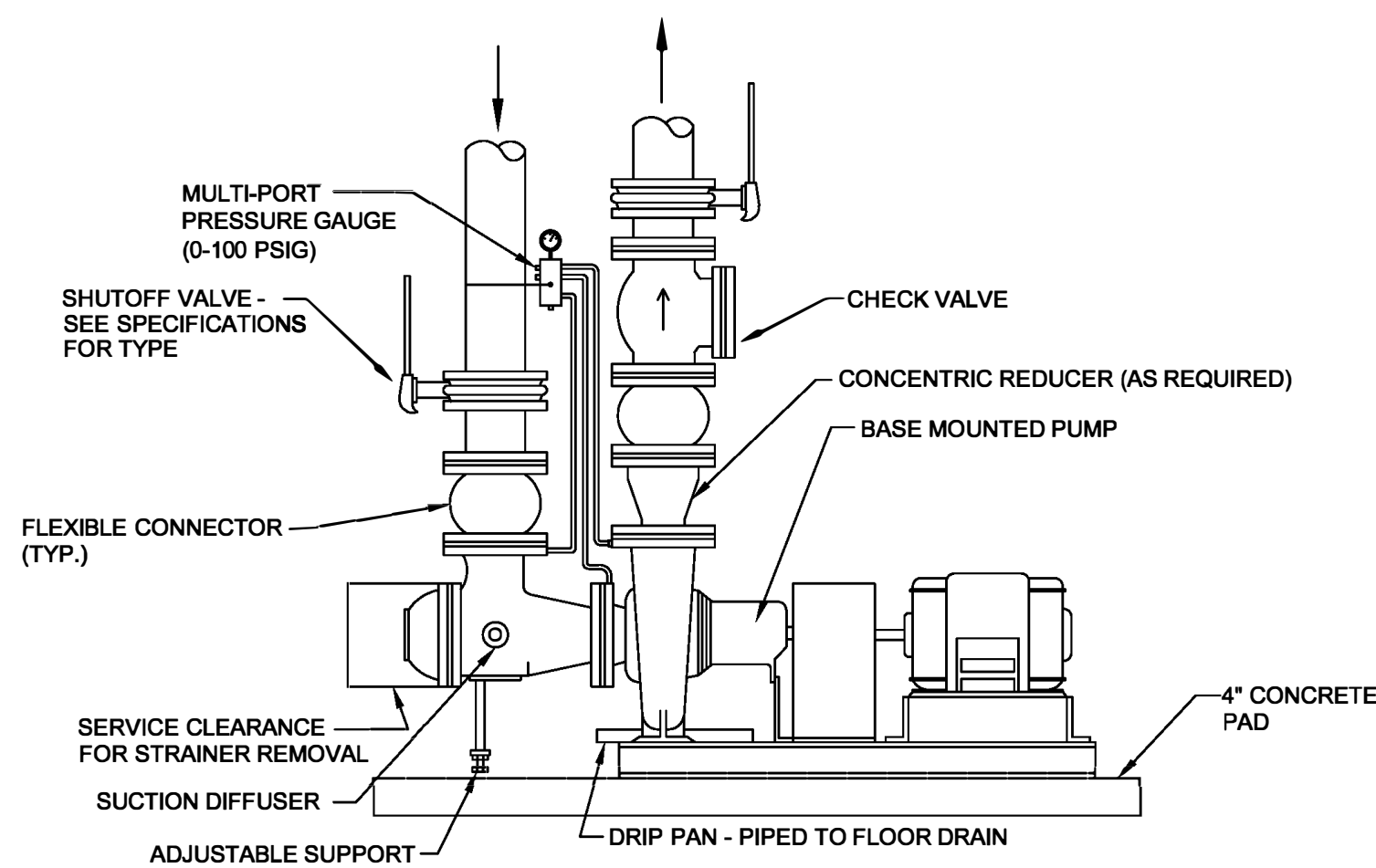
NOTE:  
ARRANGE RISERS SUCH THAT COIL MAY BE REMOVED  
WITHOUT DISTURBING RISERS.

**CHILLED WATER COIL DETAIL**  
NO SCALE

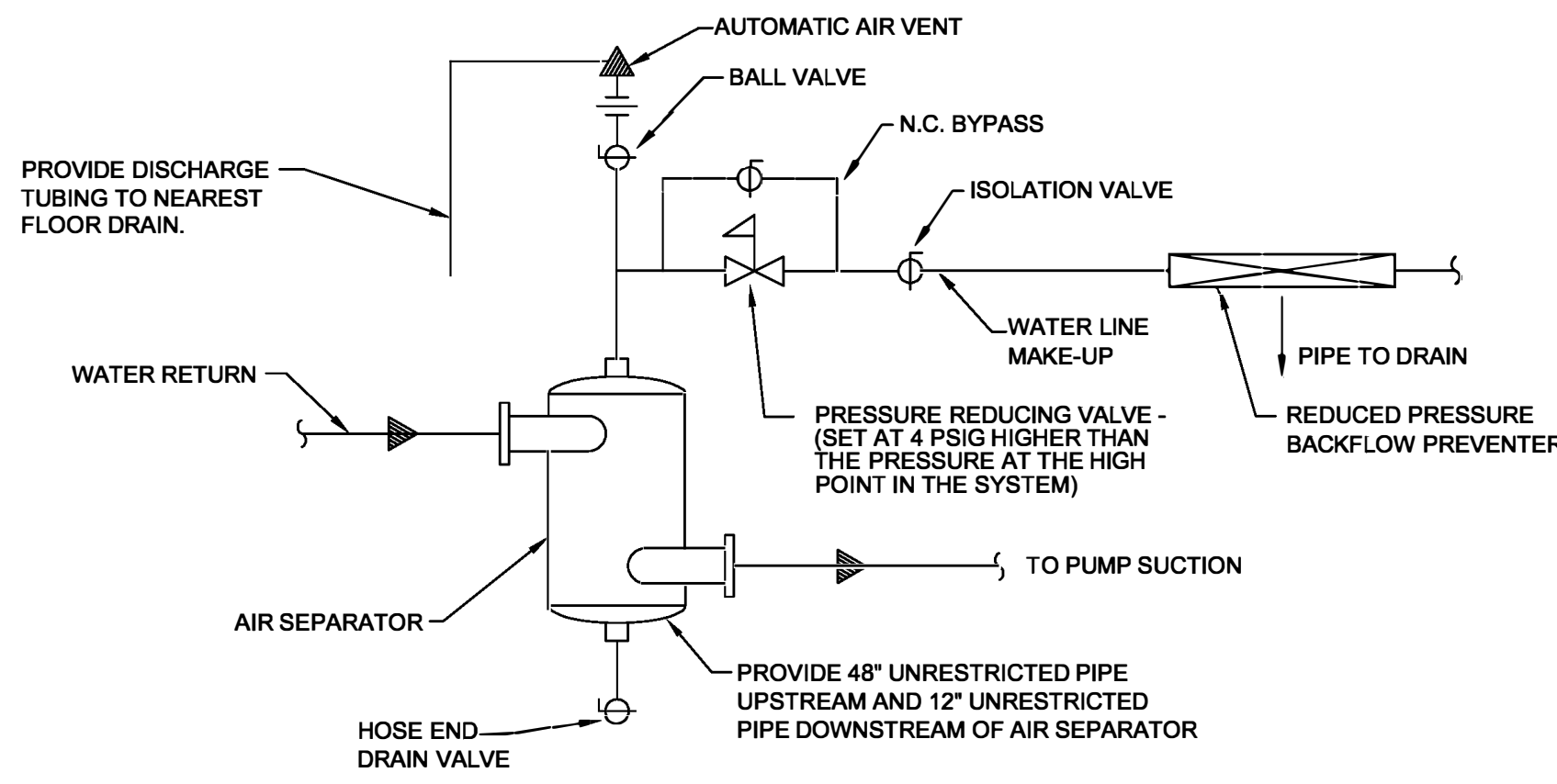


NOTES:  
1. PIPE HANGERS SHALL BE OVERSIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF INSULATION SPECIFIED. HANGER SHALL NOT COME INTO CONTACT WITH THE INSULATION DIRECTLY, EITHER AT THE VERTICAL YOKE OR AT THE POINT OF SUPPORT. FOR REQUIREMENTS ON INSULATION SHIELD USED WITH PIPE HANGERS, SEE SPECIFICATIONS.

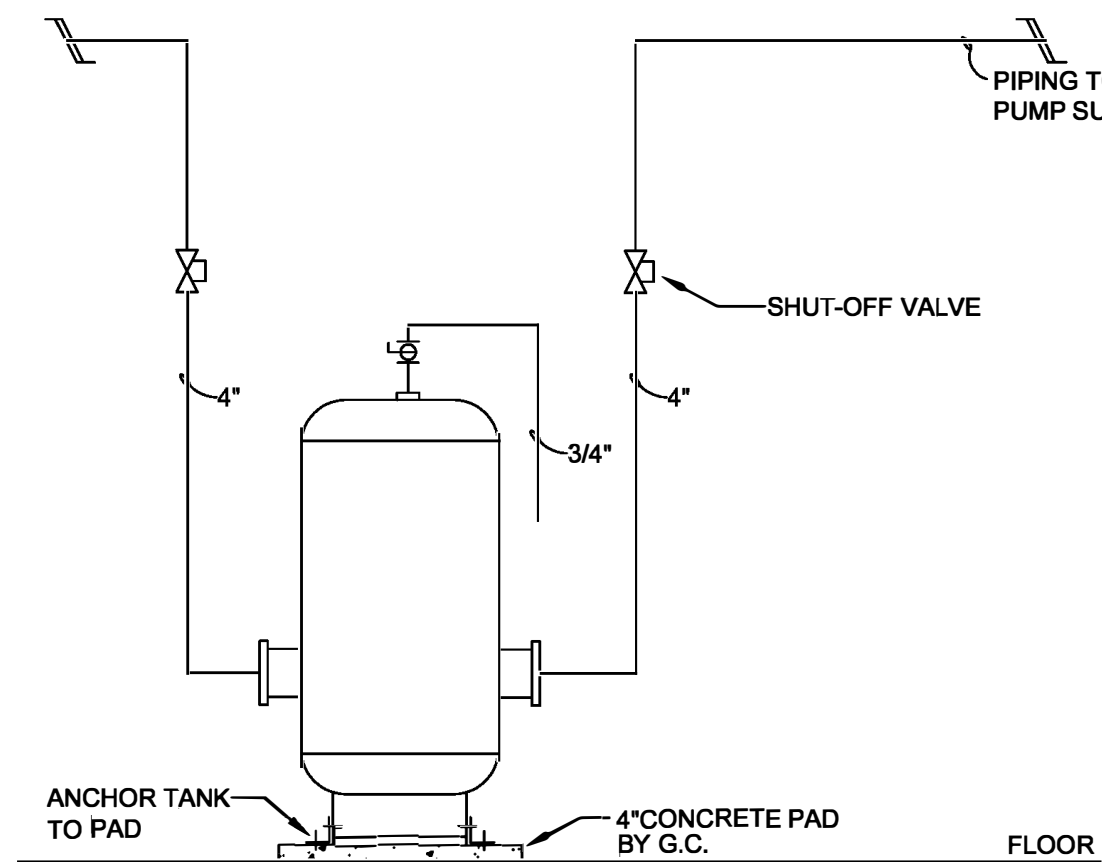
**PIPE HANGER DETAIL**  
NO SCALE



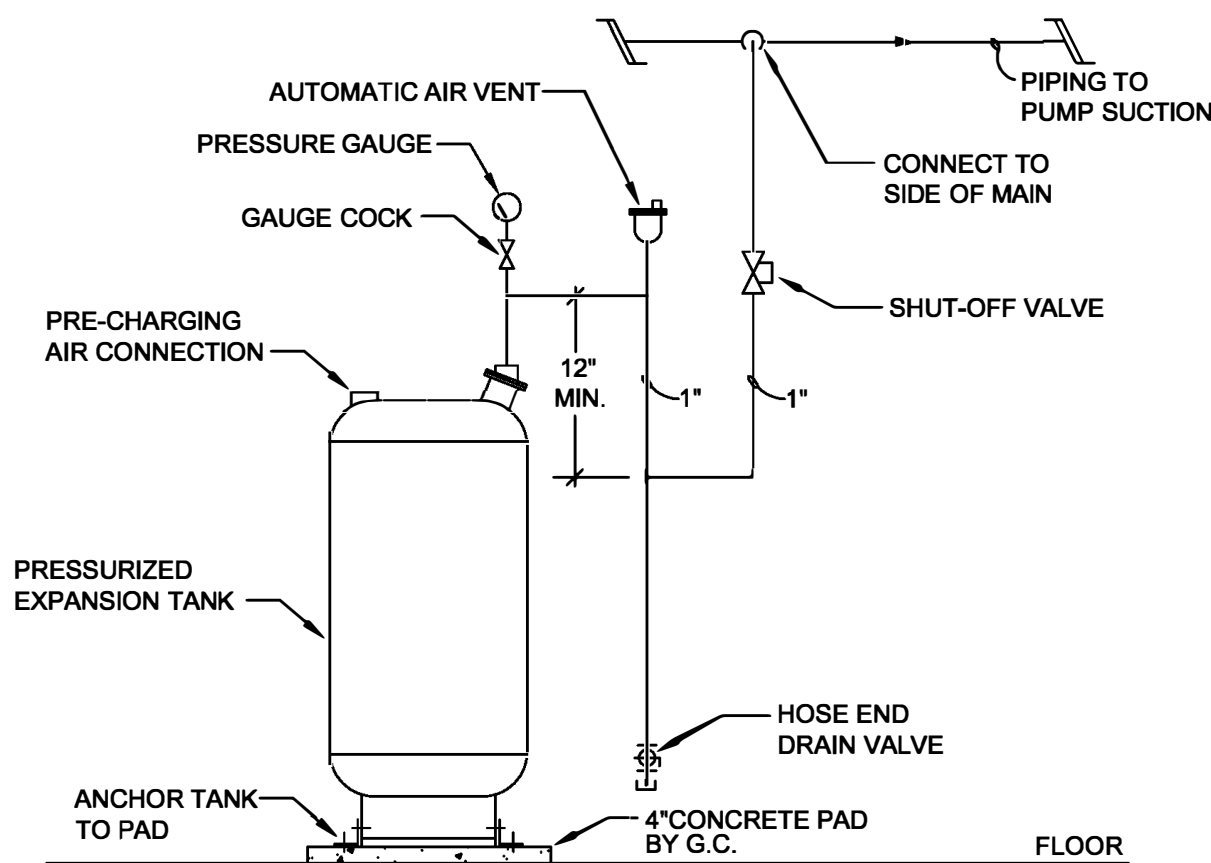
**END SUCTION PUMP PIPING DETAIL**  
NO SCALE



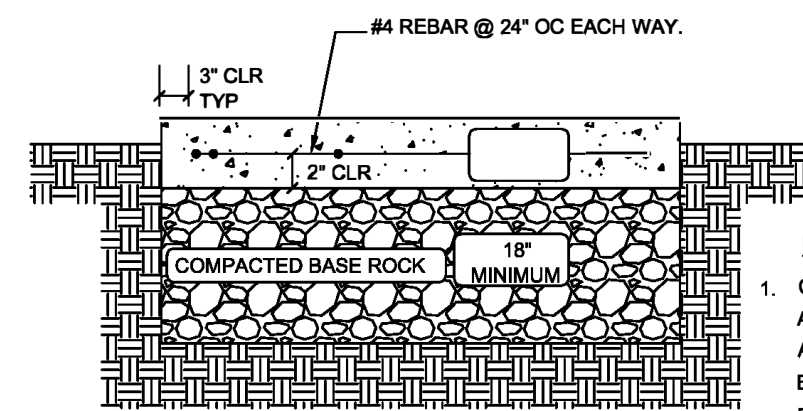
**AIR SEPARATOR DETAIL**  
NO SCALE



**BUFFER TANK DETAIL**  
NO SCALE



**EXPANSION TANK DETAIL**  
NO SCALE



COORDINATE FINAL SIZE OF PAD WITH EQUIPMENT TO BE PROVIDED. PAD SHALL EXTEND 4 INCHES CLEAR OF THE EQUIPMENT.

- NOTES:
1. CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI CODE AND AIR ENTRAINMENT, IT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. THE SAND AND GRAVEL ARE TO BE CLEAN AND HARD, THE AIR ENTRAINMENT SHALL BE 4 TO 7% BY VOLUME. THE MIX SHALL HAVE 5 BAGS OF PORTLAND CEMENT TYPE-1 PER CUBIC YARD OF CONCRETE.
  2. PAD SHALL BE POURED MONOLITHICALLY, WITH NO COLD JOINTS.
  3. NO FOOTING IS TO BE EXCAVATED WITHOUT HAVING REINFORCING AND CONCRETE READY TO PLACE WITHIN THAT WORKING DAY.
  4. ALL REINFORCING BARS SHALL BE DEFORMED #4 BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. BARS SHALL BE FREE OF ANY GREASE, RUST, OR SCALE AT THE TIME OF PLACEMENT. TIE ALL STEEL AT INTERSECTIONS. SPACING SHALL NOT EXCEED 24" ON CENTERS.
  5. TOP SURFACES OF CONCRETE SHALL HAVE A BROOM FINISH.
  6. PAD 6" ABOVE GROUND.

**EQUIPMENT PAD DETAIL**  
NO SCALE





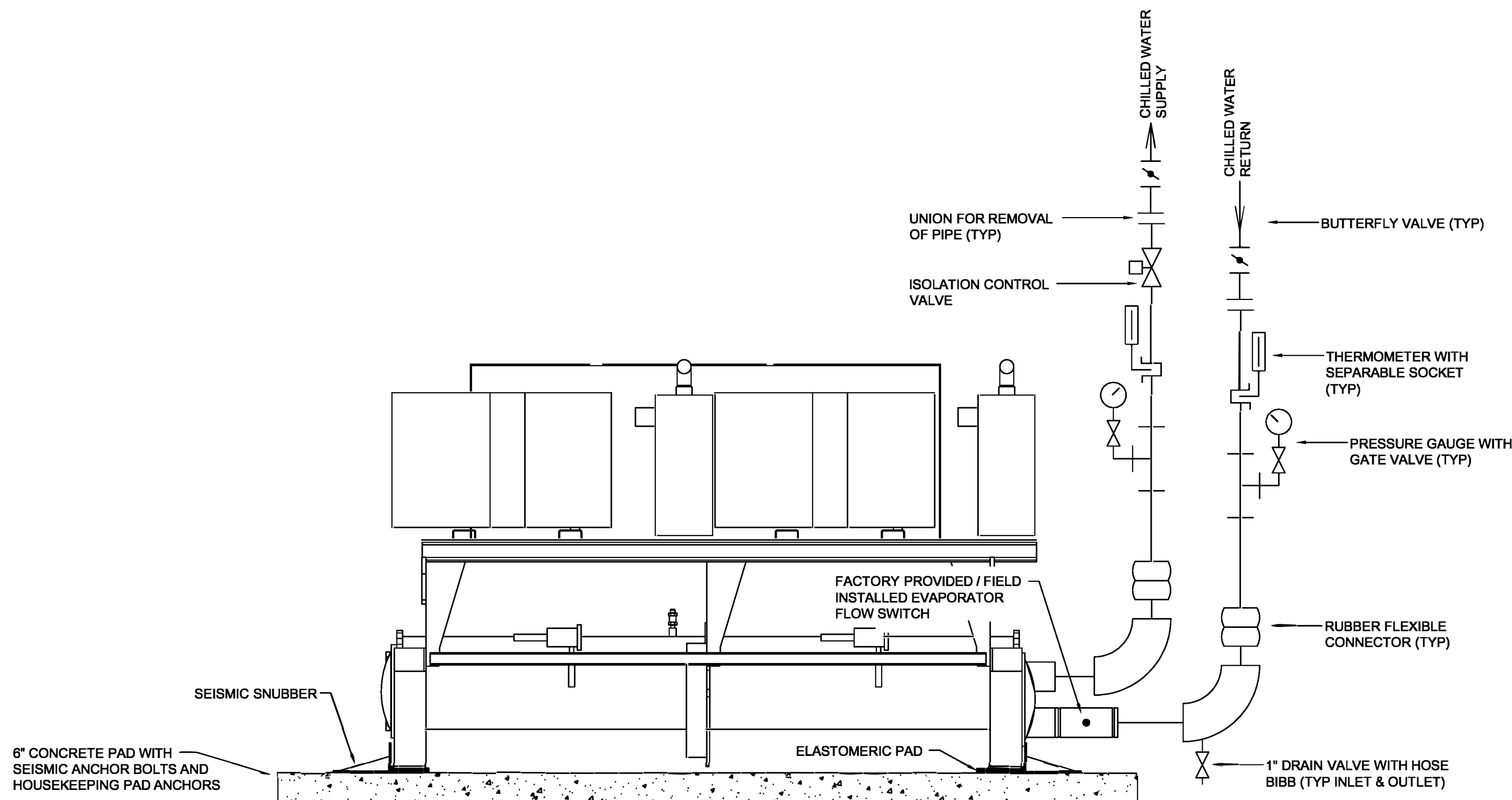


PROFESSIONAL SEAL

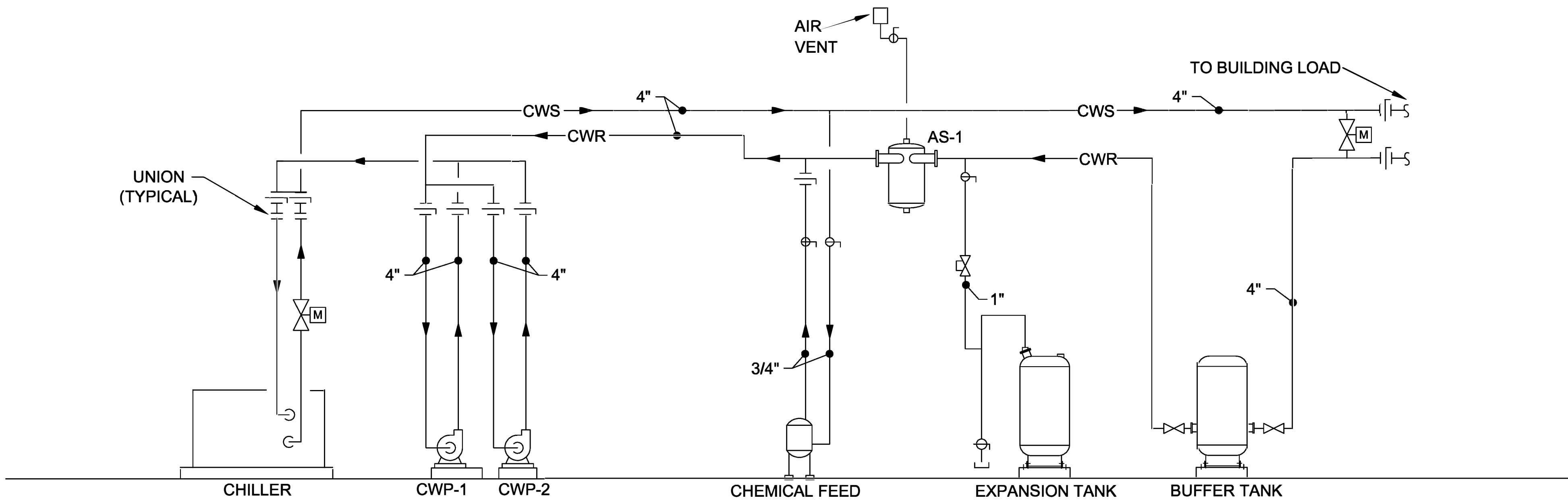
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**1 CHILLED WATER SCHEMATIC**  
NO SCALE



**CHILLED WATER PIPING SCHEMATIC**

**2 CHILLED WATER SCHEMATIC**  
NO SCALE

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DATE: 09/22/2022  
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DATE:  
ISSUE DATE: 07/01/2022


CAD DWG FILE:  
DRAWN BY: MRH  
CHECKED BY: MRH  
DESIGNED BY: MRH

SHEET TITLE:  
**CHILLED WATER  
SCHEMATIC**


SHEET NUMBER:  
**M-502**  
7 OF 13 SHEETS  
7/1/22

CHILLER SCHEDULE																			CH
PLAN MARK	MANUFACTURER	MODEL NO.	CAPACITY			EVAPORATOR					COMPRESSOR			ELECTRICAL			FLUID	NOTES	
			TONS	IPLV KW/TON	EER	WATER FLOW GPM	EWTF	LWTF	P.D. (FT. OF HD.)	MIN. WATER FLOW GPM	QTY	TYPE	RATED-LOAD AMPS	LOCKED-ROTOR AMPS	VOLT/PH	MCA	MOP		PROPYLENE GLYCOL
CH-1	TRANE	CGAM	60	15.4	10.7	142	54	44	24	67	4	SCROLL	50.2	351	208/3	257	300	30%	ALL
NOTES:																			
① SINGLE POINT POWER CONNECTION WITH DISCONNECT.										⑨ FAN VFD CONTROL									
② MINIMUM 14 IPLV.										⑩ RATINGS BASED ON 30% POLYPROPYLENE									
③ FACTORY INSTALLED THERMAL DISPERSION FLOW SWITCH ON EVAPORATOR.																			
④ FACTORY CONTROL PANEL WITH TOUCHSCREEN AND BACNET INTERFACE.																			
⑤ FACTORY INSULATION PACKAGE.																			
⑥ HIGH EFFICIENCY/PERFORMANCE.																			
⑦ STANDARD COOLING APPLICATION.																			
⑧ REFRIGERANT SERVICE VALVES																			
															SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS				

PRODUCT LISTED IS BASIS OF DESIGN ONLY

CHILLED WATER COIL																							
PLAN MARK	MANUFACTURER	MODEL	AIRFLOW	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	AIR TEMPERATURE EDB/EWB	LDB/LWB	FACE VELOCITY	AIR PD (WG)	H2O TEMPERATURE EWT		LWT	GPM	H2O PD (WG)	PROP. GLYCOL	ROWS	FPI	TUBE DIAMETER	TUBE MATERIAL	FIN MATERIAL	WEIGHT	DIMENSIONS	REMARKS
CWC-1	MARLO	6W22-51-5609F-11.8-H-1.0-R-B	5700	283	178	82.1/69.1	55.0/54.3	490	0.5"	42	52	61	16.6"	30%	6	9		5/8	CU .035	AL .010	335	51"L X 33.4"H	ALL
CWC-2	MARLO	6W22-51-5609F-11.8-H-1.0-R-B	5400	269	170	82.1/69.1	55.0/54.3	490	0.5"	42	52	57	16.6"	30%	6	9		5/8	CU .035	AL .010	335	51"L X 33.4"H	ALL
CWC-3	MARLO	8W18-41-5508F-7.8-H-1.33-R-B	4200	201	125	81.8/69.1	55.0/54.3	540	0.5"	42	52	44	16.6"	30%	6	9		5/8	CU .035	AL .010	275	41"L X 28"H	ALL
NOTES: ① CONTRACTOR TO VERIFY UNIT SIZES FOR COIL FIT. ② ALTERNATE MANUFACTURERS HEATCRAFT AND USA COIL ③ COILS SELECTED BASED ON 30% PROPYLENE GLYCOL ④ CHILLED WATER COIL MEASUREMENTS ARE THE MEASUREMENTS OF THE SPECIFIC COIL SPECIFIED. THE CASE DIMENSIONS ARE LARGER AT ROUGHLY 68 X 44 FOR AHU-1,2 AND 39 X 57 FOR AHU-3 (OUTSIDE DIMENSION), BUT MUST BE VERIFIED BY CONTRACTOR.																							
SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS																							

PRODUCT LISTED IS BASIS OF DESIGN ONLY

PUMP SCHEDULE											
PLAN MARK	MANUFACTURER	MODEL	TYPE	GPM	HEAD IN FT	MOTOR HP	PUMP RPM	ELECTRICAL	WEIGHT (lbs)	REMARKS	
								VOLT/PH			
CWP-1	TACO	F12509D	BASE MOUNTED END SUCTION	162	52	5	1750	208/3	343	ALL	
CWP-2	TACO	F12509D	BASE MOUNTED END SUCTION	162	52	5	1750	208/3	343	ALL	

NOTES:

① VARIABLE SPEED DRIVE.

② SUCTION DIFFUSER.

③ HEAVY DUTY BASE PLATE.

SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS

PRODUCT LISTED IS BASIS OF DESIGN ONLY

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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CAD DWG FILE:  
DRAWN BY: MRH  
CHECKED BY: MRH  
DESIGNED BY: MRH

SHEET TITLE:  
**MECHANICAL  
SCHEDULES**

SHEET NUMBER:  
**M-601**  
8 OF 13 SHEETS  
7/1/22



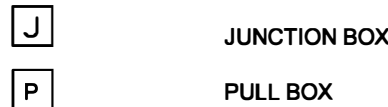


9 OF 13 SHEETS  
7/1/22

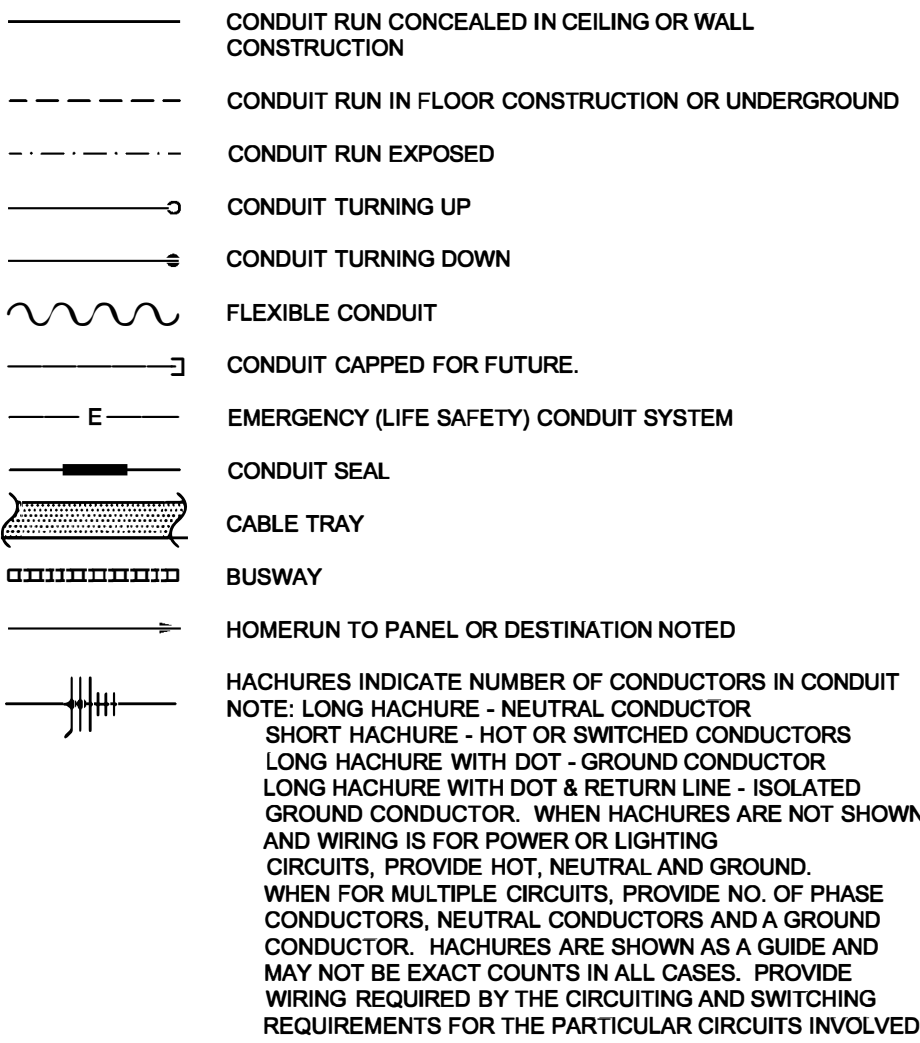
ELECTRICAL LEGEND AND ABBREVIATIONS (SEE SPECIFICATIONS & SCHEDULES)

NOTES: 1. NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED ON THESE PLANS.  
2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICES AND EQUIPMENT U.O.N.  
3. IN GENERAL, SYMBOLS SHOWN WITH LIGHT LINES DENOTE EXISTING WORK. SYMBOLS SHOWN WITH HEAVY LINES DENOTE PROPOSED WORK.

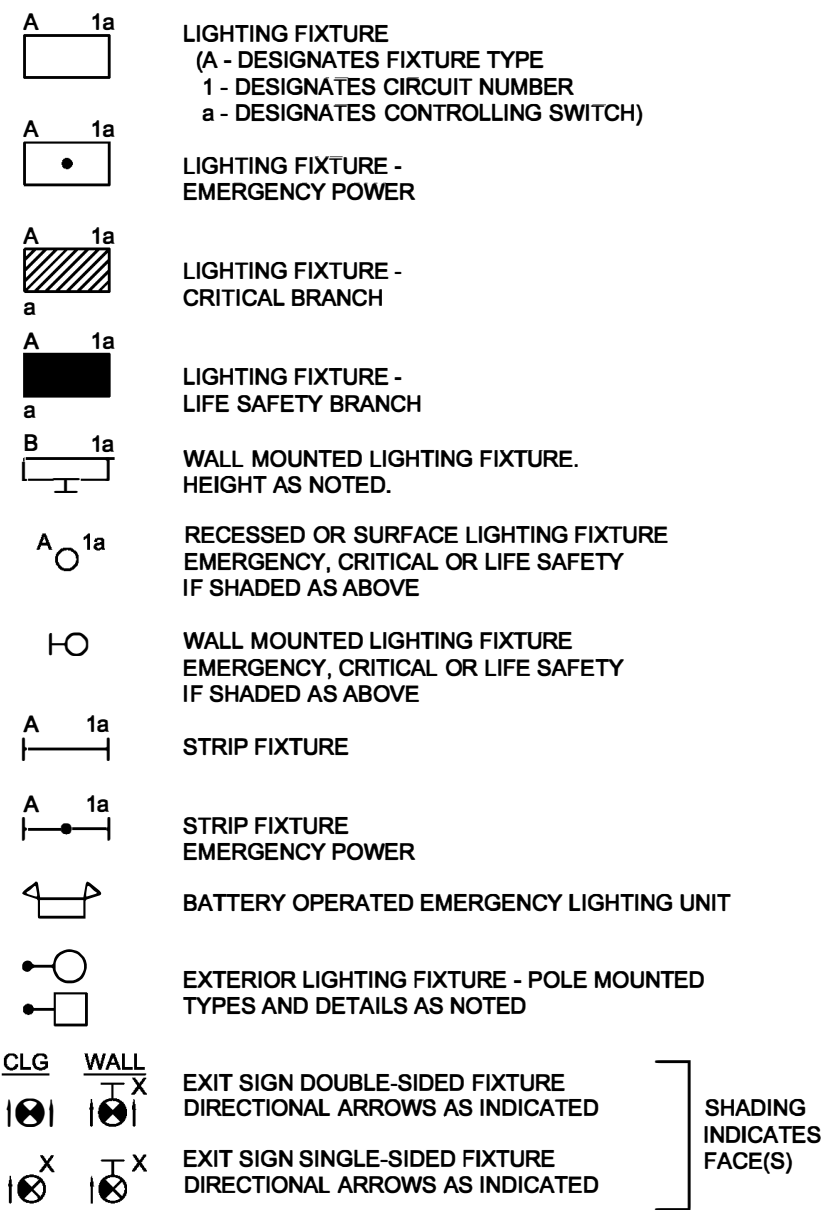
JUNCTION AND PULL BOXES



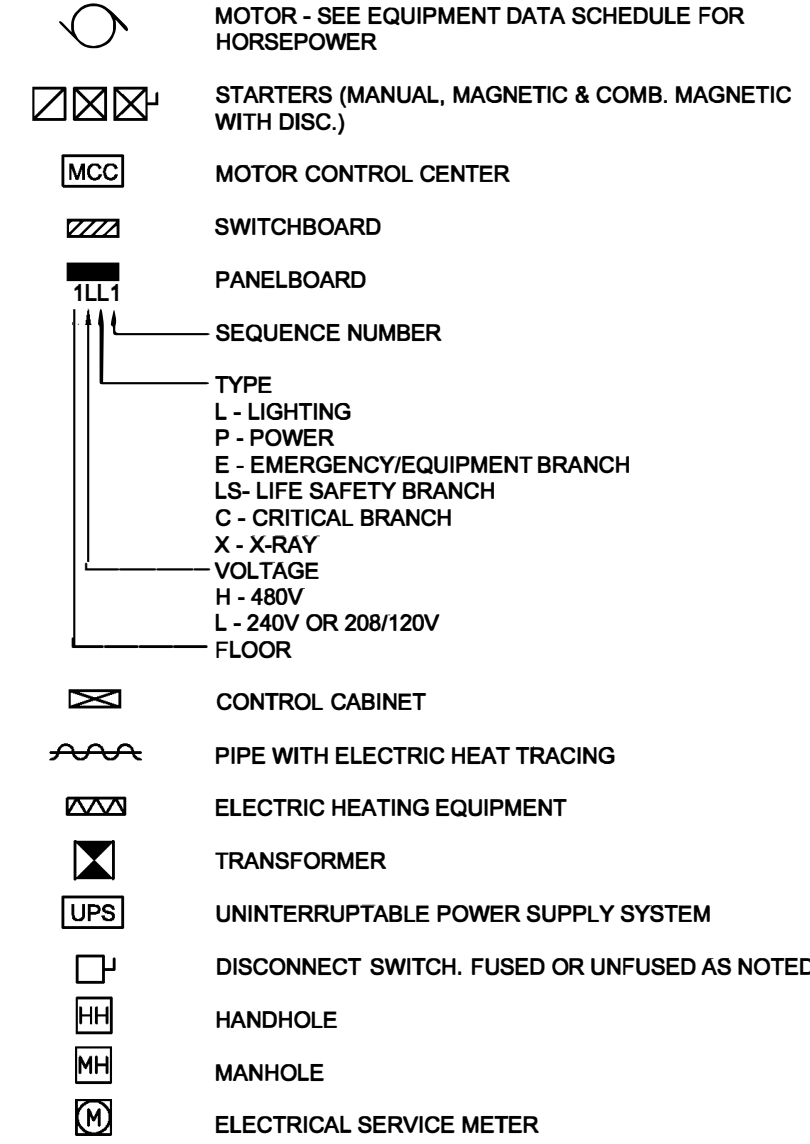
WIRING PLANS



LIGHTING FIXTURES



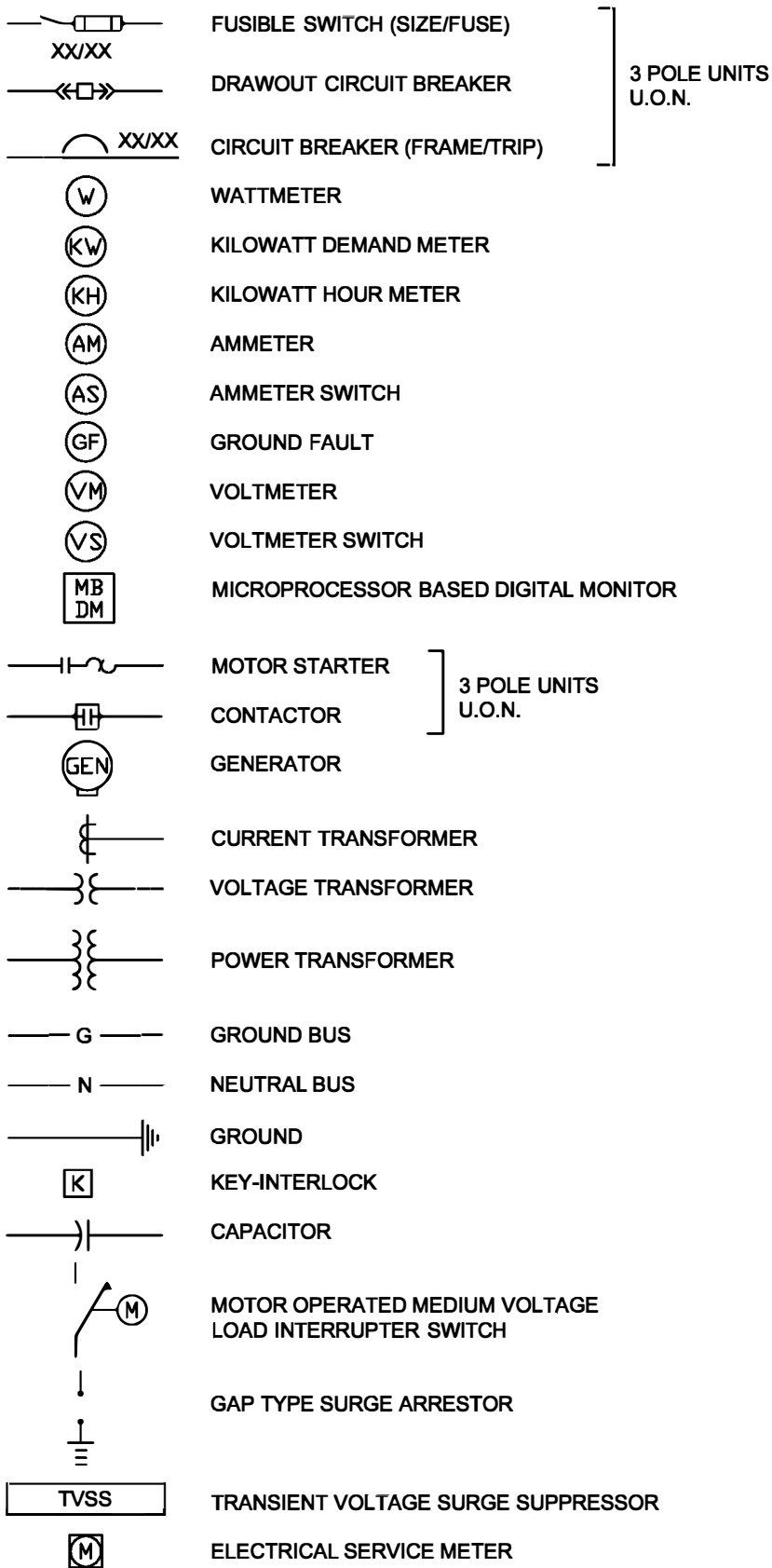
POWER EQUIPMENT



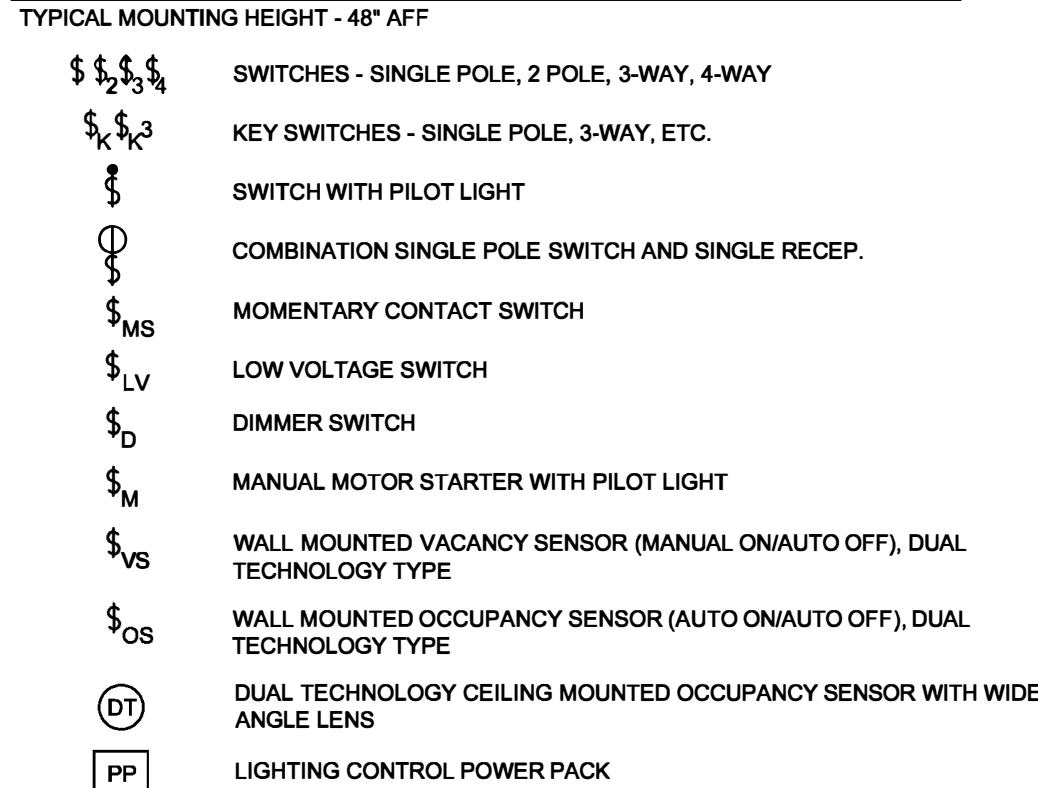
ABBREVIATIONS

A.C.S.	-	ACCESS CONTROL SYSTEM
A.F.F.	-	ABOVE FINISHED FLOOR
ATS	-	AUTOMATIC TRANSFER SWITCH
B.C.	-	BELOW CEILING
C	-	CONDUIT
CAM	-	CAMERA
CB	-	CIRCUIT BREAKER
CC	-	CONTROL CONTACTOR
CCTV	-	CLOSED CIRCUIT TELEVISION
COW	-	COUNTER CLOCKWISE
CW	-	CLOCKWISE
DCU	-	DISTRIBUTED CONTROLLER UNIT
DN	-	DOWN
DP	-	DISTRIBUTION PANEL
DR	-	DOCTORS REGISTER
DT	-	DUSTTIGHT
DWG	-	DRAWING
E.C.	-	ELECTRICAL CONTRACTOR
ELEC	-	ELECTRIC OR ELECTRICAL
EMT	-	ELECTRICAL METALLIC TUBING
ER	-	EXISTING RELOCATED
ETR	-	EXISTING TO REMAIN
EWC	-	ELECTRIC WATER COOLER
FA	-	FIRE ALARM
FM	-	F/O MODEM
F/O	-	FIBER OPTIC
FS	-	FUSIBLE SWITCH
G.C.	-	GENERAL CONTRACTOR
GF	-	GROUND FAULT
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
GRD	-	GROUND
GRS	-	GALVANIZED RIGID STEEL
HH	-	HANDHOLE
ILSM	-	INTERIM LIFE SAFETY MEASURES
IMC	-	INTERMEDIATE METAL CONDUIT
I/O	-	INPUT/OUTPUT
LAN	-	LOCAL AREA NETWORK
LP	-	LIGHTING PANEL
MATV	-	MASTER ANTENNA TELEVISION
MC	-	METAL CLAD
MCC	-	MOTOR CONTROL CENTER
MCP	-	MOTOR CONTROL PANEL
MH	-	MANHOLE
MT	-	EMPTY CONDUIT
NC	-	NURSE CALL
NL	-	NIGHT LIGHT
PA	-	PUBLIC ADDRESS
PI	-	PORTABLE INTERFACE
P.I.R.	-	PASSIVE INFRA RED
PP	-	POWER PANEL
PR	-	PAIR
PVC	-	POLYVINYL CHLORIDE CONDUIT
R	-	RECESSED
RF	-	RADIO FREQUENCY
RGS	-	RIGID GALVANISED STEEL
RT	-	RAINTIGHT
SHLD	-	SHIELDED (AS IN CABLE)
SWBD	-	SWITCHBOARD
T	-	TELEPHONE
TYP.	-	TYPICAL
UNG	-	UNGROUND
UPS	-	UNINTERRUPTIBLE POWER SUPPLY
U.O.N.	-	UNLESS OTHERWISE NOTED
VFD	-	VARIABLE FREQUENCY DRIVE
VT	-	VAPORTIGHT
WT	-	WATERTIGHT
XP	-	EXPLOSION PROOF
WP	-	WEATHER-PROOF

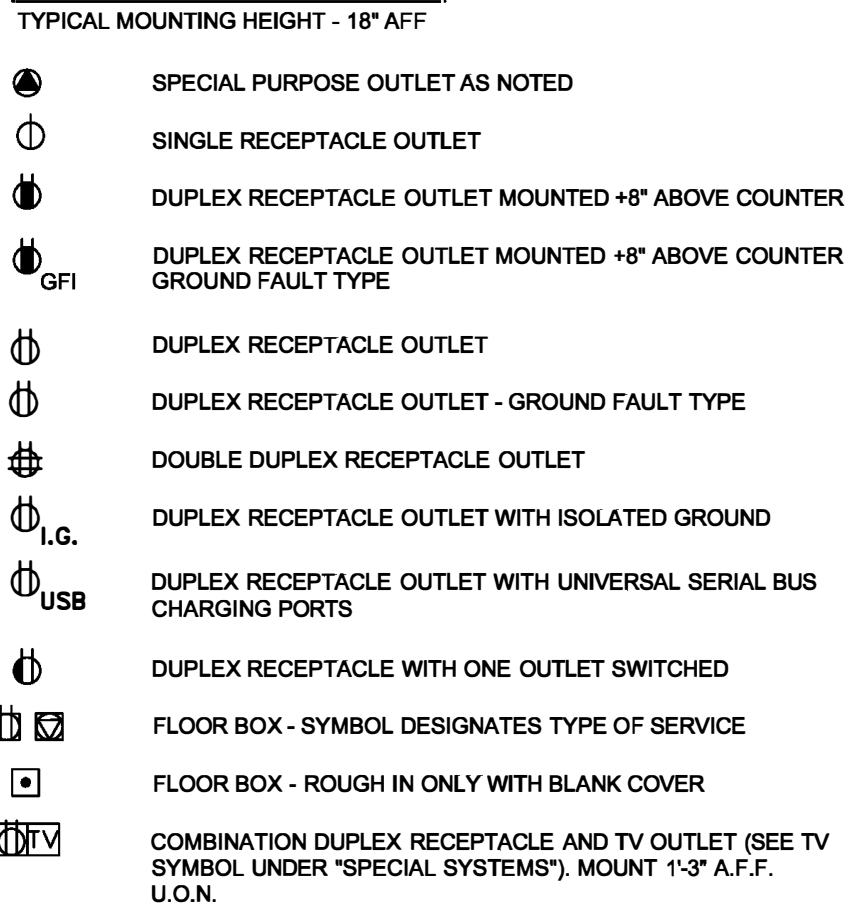
ONE-LINE DIAGRAM SYMBOLS



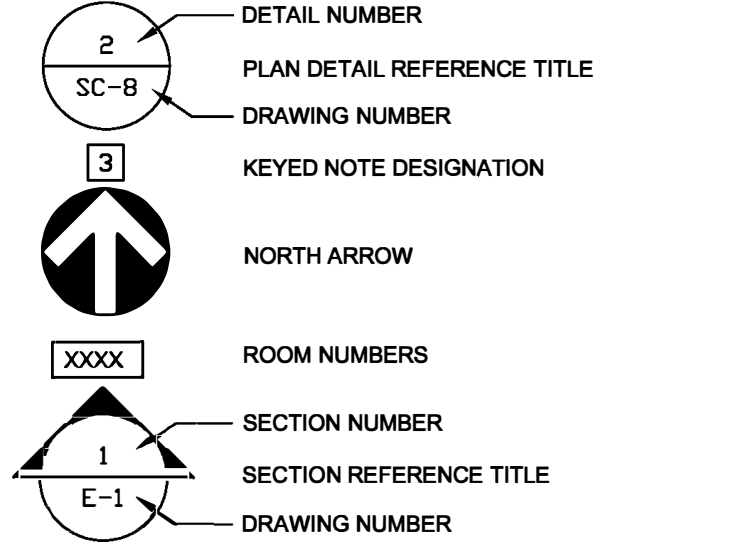
SWITCHES - LIGHTING CONTROL



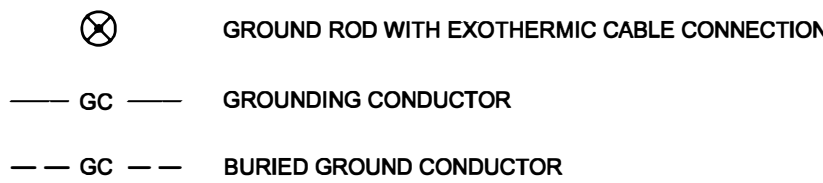
RECEPTACLES



DRAWING REFERENCES



GROUNDING SYMBOLS



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DATE:  
REVISION:  
DATE:  
ISSUE DATE: 07/01/2022

CAD DWG FILE:  
DRAWN BY: ASK  
CHECKED BY: CVH  
DESIGNED BY: TSM

SHEET TITLE:

ELECTRICAL  
SYMBOLS  
AND LEGEND

SHEET NUMBER:

E-001  
10 OF 13 SHEETS  
7/1/22





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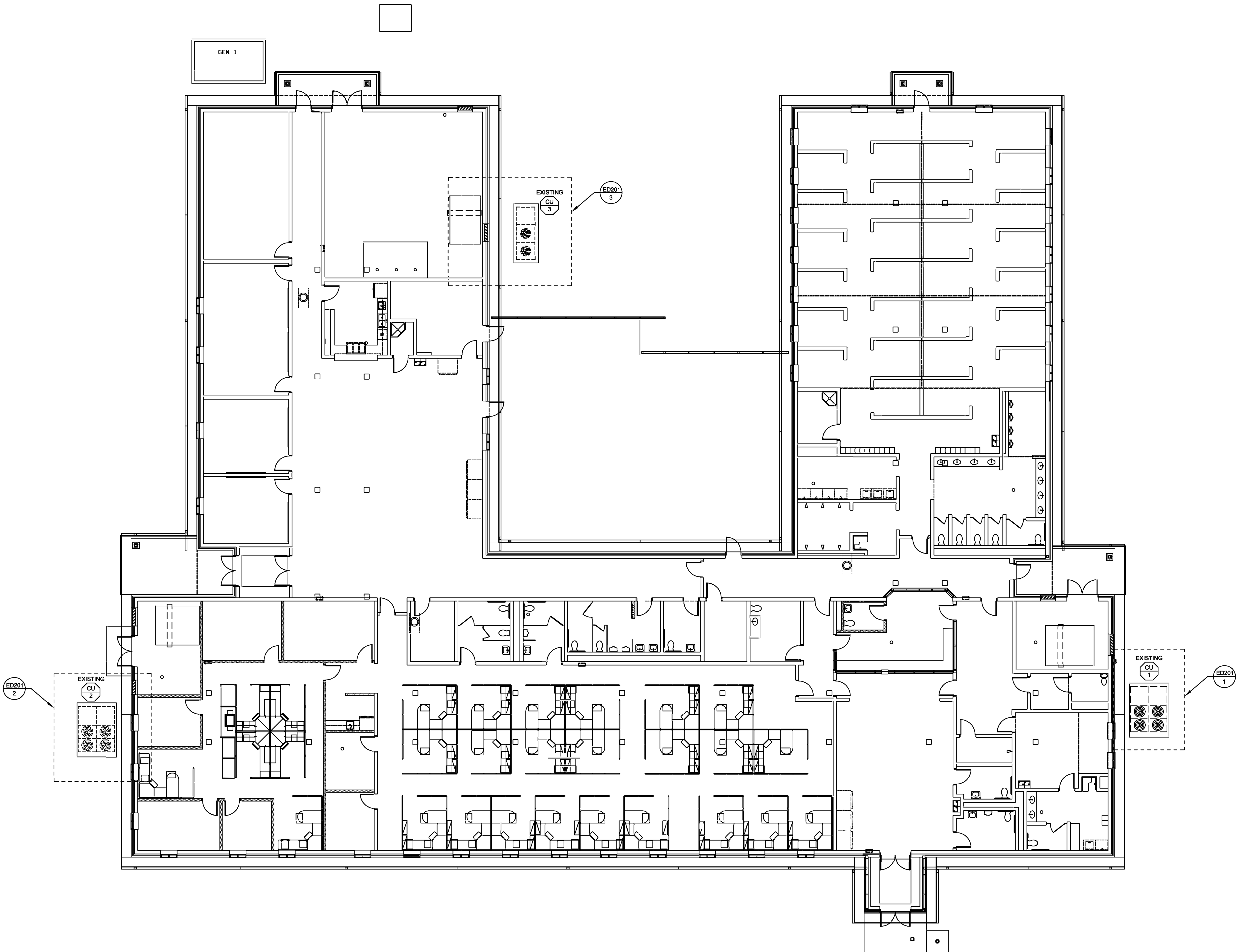
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**ELECTRICAL  
DEMOLITION**

SHEET NUMBER:

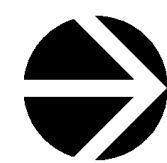
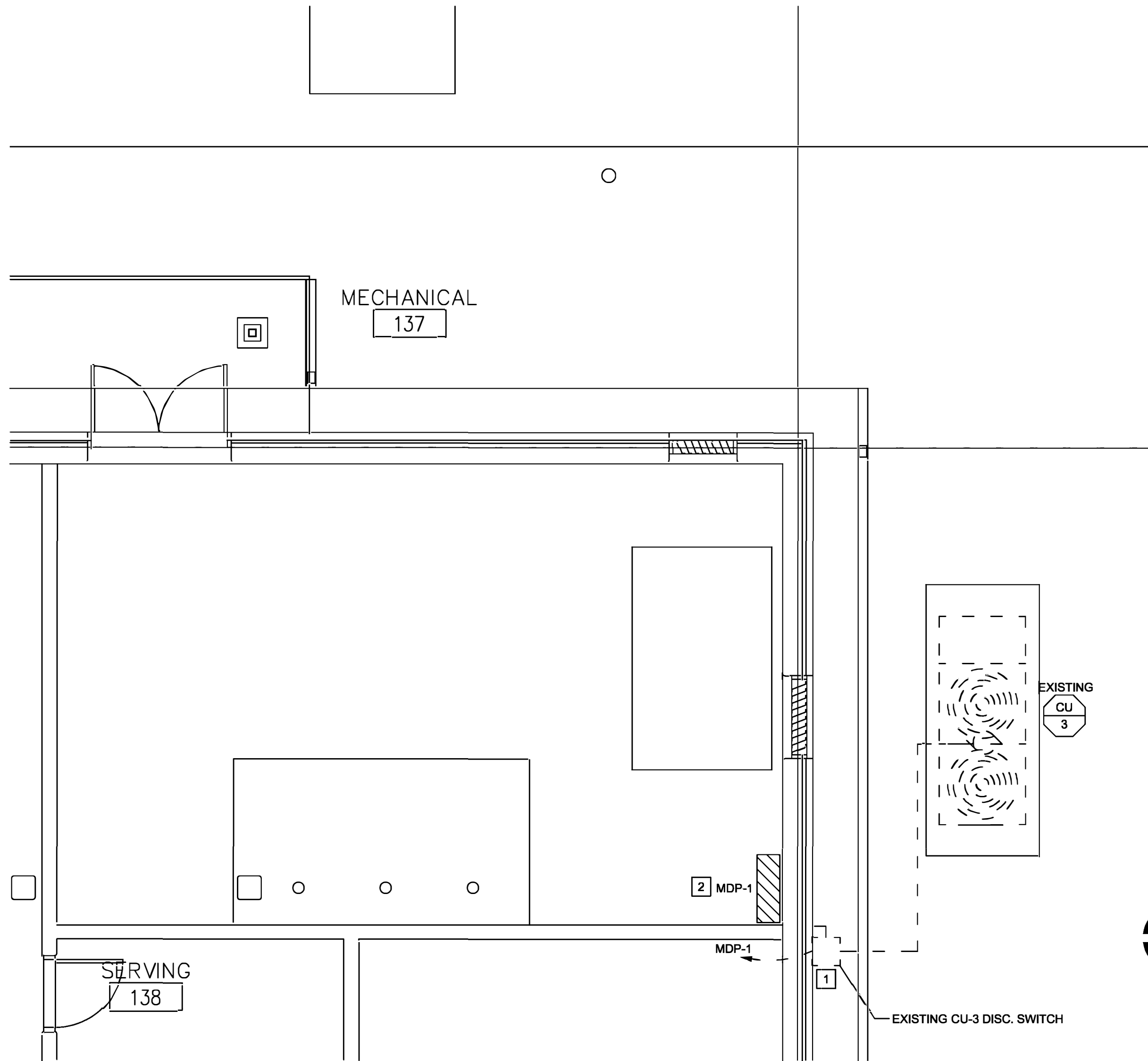
**ED-101**  
11 OF 13 SHEETS  
7/1/22

**GENERAL NOTES**

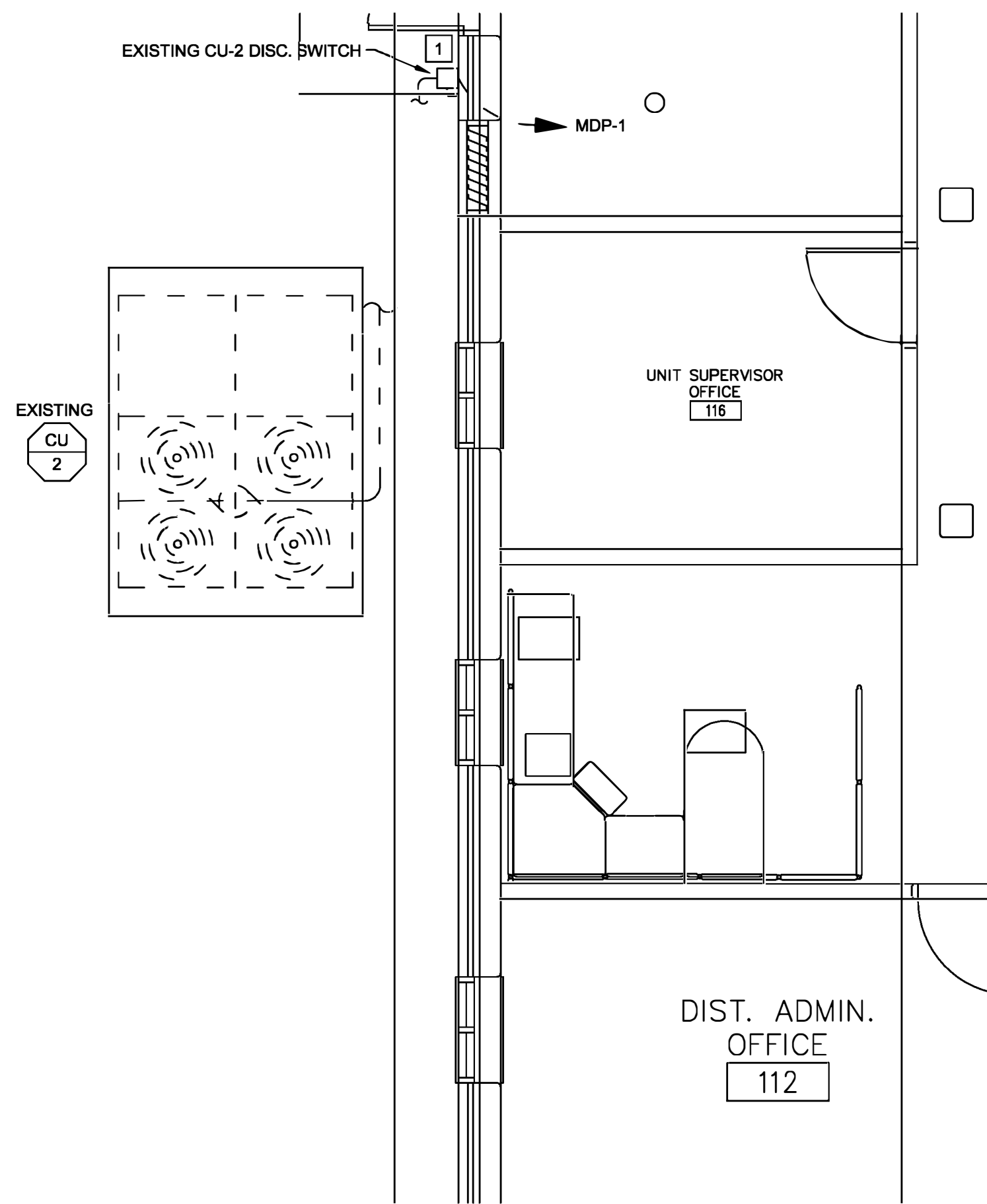
1. REFER TO SHEET ED-401 FOR FURTHER ELECTRICAL DEMO INFORMATION.
2. PLANS ARE DIAGRAMMATIC IN NATURE. THEY REFLECT THE AVAILABLE INFORMATION OBTAINED FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION. ACTUAL LOCATION OF ELEMENTS AND EQUIPMENT MAY DEVIATE FROM THE LOCATION AND QUANTITIES SHOWN.
3. EXISTING WIRING TO REMAIN SHALL BE TEMPORARILY SUPPORTED AND PROTECTED. IF WIRE IS DAMAGED DURING THE CONSTRUCTION PROCESS, CONTRACTOR SHALL REPLACE WIRE WITH NEW PER SPECIFICATIONS.
4. WHILE MOST DEMOLITION WORK IS CONFINED TO CERTAIN AREAS OF THE BUILDING, WORK FOR ELECTRICAL SYSTEMS MAY BE EXTENDED TO INCLUDE OTHER AREAS OUTSIDE THE SCOPE OF WORK. PLAN IN ADVANCE TO PERFORM WORK IN OTHER AREAS TO MINIMIZE INTERRUPTIONS.
5. DEMOLITION REFERS TO THE DISCONNECTION AND REMOVAL OF EQUIPMENT, WIRING, AND COMPONENTS BACK TO SOURCE.
6. CONTRACTORS SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR EXECUTION OF DEMOLITION WORK AND INSTALLATION OF NEW WORK.
7. COORDINATE THE DISCONNECTION AND REMOVAL OF ALL ITEMS WITH ASSOCIATED TRADES. ENSURE SERVICES THAT ARE REQUIRED TO REMAIN ACTIVE ARE ACTIVE DURING AND AFTER DEMOLITION IS COMPLETED.



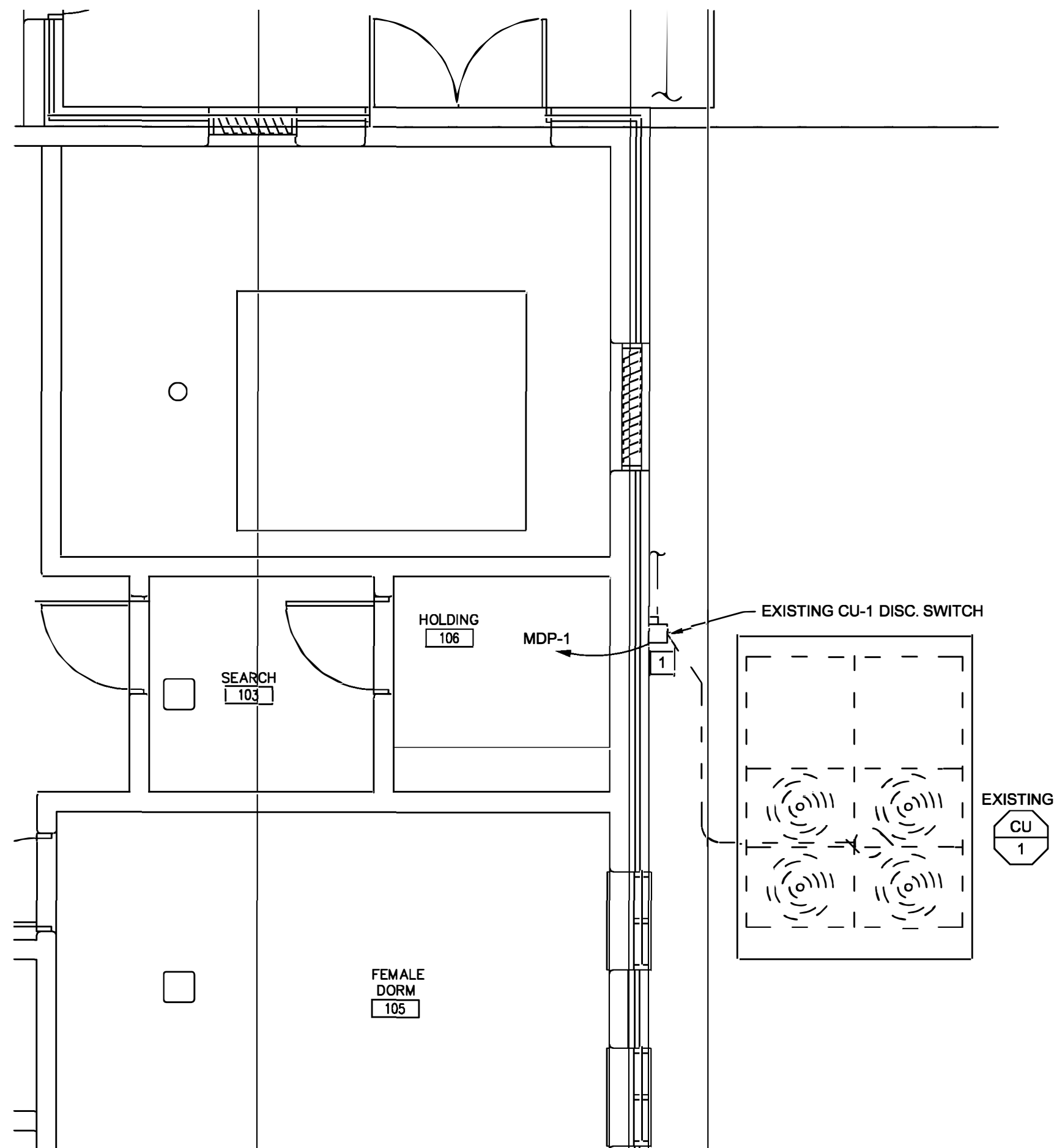
**ELECTRIC DEMOLITION FLOOR PLAN**  
SCALE: 3/32" = 1'-0"



**3 - ENLARGED MECH RM - ELECTRICAL DEMOLITION**  
SCALE: 1/4" = 1'-0"



**2 - ENLARGED PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1/4" = 1'-0"



**1 - ENLARGED PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1/4" = 1'-0"

#### GENERAL NOTES

1. PLANS ARE DIAGRAMMATIC IN NATURE. THEY REFLECT THE AVAILABLE INFORMATION OBTAINED FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION. ACTUAL LOCATION OF ELEMENTS AND EQUIPMENT MAY DEVIATE FROM THE LOCATION AND QUANTITIES SHOWN.
2. EXISTING WIRING TO REMAIN SHALL BE TEMPORARILY SUPPORTED AND PROTECTED. IF WIRE IS DAMAGED DURING THE CONSTRUCTION PROCESS, CONTRACTOR SHALL REPLACE WIRE WITH NEW PER SPECIFICATIONS.
3. WHILE MOST DEMOLITION WORK IS CONFINED TO CERTAIN AREAS OF THE BUILDING, WORK FOR ELECTRICAL SYSTEMS MAY BE EXTENDED TO INCLUDE OTHER AREAS OUTSIDE THE SCOPE OF WORK. PLAN IN ADVANCE TO PERFORM WORK IN OTHER AREAS TO MINIMIZE INTERRUPTIONS.
4. DEMOLITION REFERS TO THE DISCONNECTION AND REMOVAL OF EQUIPMENT, WIRING, AND COMPONENTS BACK TO SOURCE.
5. CONTRACTORS SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR EXECUTION OF DEMOLITION WORK AND INSTALLATION OF NEW WORK.
6. COORDINATE THE DISCONNECTION AND REMOVAL OF ALL ITEMS WITH ASSOCIATED TRADES. ENSURE SERVICES THAT ARE REQUIRED TO REMAIN ACTIVE ARE ACTIVE DURING AND AFTER DEMOLITION IS COMPLETED.

#### KEYED NOTES

- 1 REMOVE EXISTING DISCONNECT, REMOVE EXISTING FEEDERS, AND REMOVE EXISTING ACCESSIBLE CONDUIT BACK TO MDP-1. CAP REMAINING CONDUIT IN CONCEALED LOCATION, SEAL AND FINISH AT WALL/FLOOR/CEILING FACE AND MATCH ADJACENT FINISHES.
- 2 REMOVE EXISTING ABANDONED FUSED SWITCHES IN MDP-1 AS NEEDED TO MAKE SPACE FOR NEW SWITCHES PER NEW WORK PLANS. REMAINING ABANDONED SWITCHES SHALL BE SWITCHED OFF AND FUSES REMOVED AND MARKED "SPARE".

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



PROFESSIONAL SEAL

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MANAGEMENT, DESIGN AND  
CONSTRUCTION  
DEPARTMENT OF  
CORRECTIONS

PROJECT TITLE:  
REPLACE BAS & HVAC

2002 WARREN BARRETT DRIVE  
HANNIBAL, MO

PROJECT # C2010-01

REVISION: 1  
DATE: 09/22/2022  
REVISION:   
DATE:   
REVISION:   
DATE:   
ISSUE DATE: 07/01/2022

CAD DWG FILE:   
DRAWN BY: ASK  
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SHEET TITLE:

**ENLARGED  
DEMO PLANS  
- ELECTRICAL**

SHEET NUMBER:

**ED-201**

12 OF 13 SHEETS  
7/1/22



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13 OF 13 SHEETS  
7/1/22

1. FOR FURTHER MECHANICAL INFORMATION, REFER TO SHEET M-601.
2. FOR FURTHER ELECTRICAL INFORMATION, REFER TO SHEET E-501.
3. THE CHILLER SHALL BE TEMPORARY FED FROM A 400 AMP FUSIBLE DISCONNECT, FED FROM EXISTING MECHANICAL EQUIPMENT DISTRIBUTION PANEL MDP-1. EXISTING FUSED SWITCHES FEEDING EXISTING THREE CONDENSING UNITS SHALL BE REMOVED FROM MDP-1 PRIOR TO THE TRANSITION FROM THE CONDENSING TO THE NEW CHILLER SYSTEM IS COMPLETE. THE CHILLER SHALL BE FED FROM NEW DISTRIBUTION PANEL MDP-1. NEW FUSED SWITCH SHALL BE PROVIDED IN MDP-1 TO SERVE THE PROPOSED CHILLER. PER KEYED NOTES BELOW.

[illegible]

# ENLARGED MECH RM - ELECTRICAL

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