

Hobble Creek 1, 2, 3 & Springville UT Hobble Creek West Stake

Project No. 505-0871-17020101

CHAPEL HVAC UPGRADE

555 South Averett Avenue
Springville, Utah

Springville UT FM Group
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Springville, Utah
(385)-201-8308

Project For
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

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- M601 MECHANICAL SCHEDULES AND DETAILS
- ME101 ATC – FLOOR PLAN AND SCHEDULE
- ME701 AUTOMATIC TEMPERATURE CONTROLS

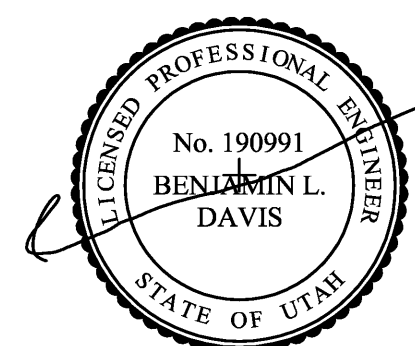
- EG001 ELECTRICAL GENERAL
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• Van Boerum & Frank Assoc., 2014

Hobble Creek 1, 3, 13 & Springville UT Hobble Creek Stk.
SALT LAKE CITY, UTAH

REVISIONS	

VBFA PROJECT #: 17329
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SHEET CONTENTS
COVER SHEET

M000

1

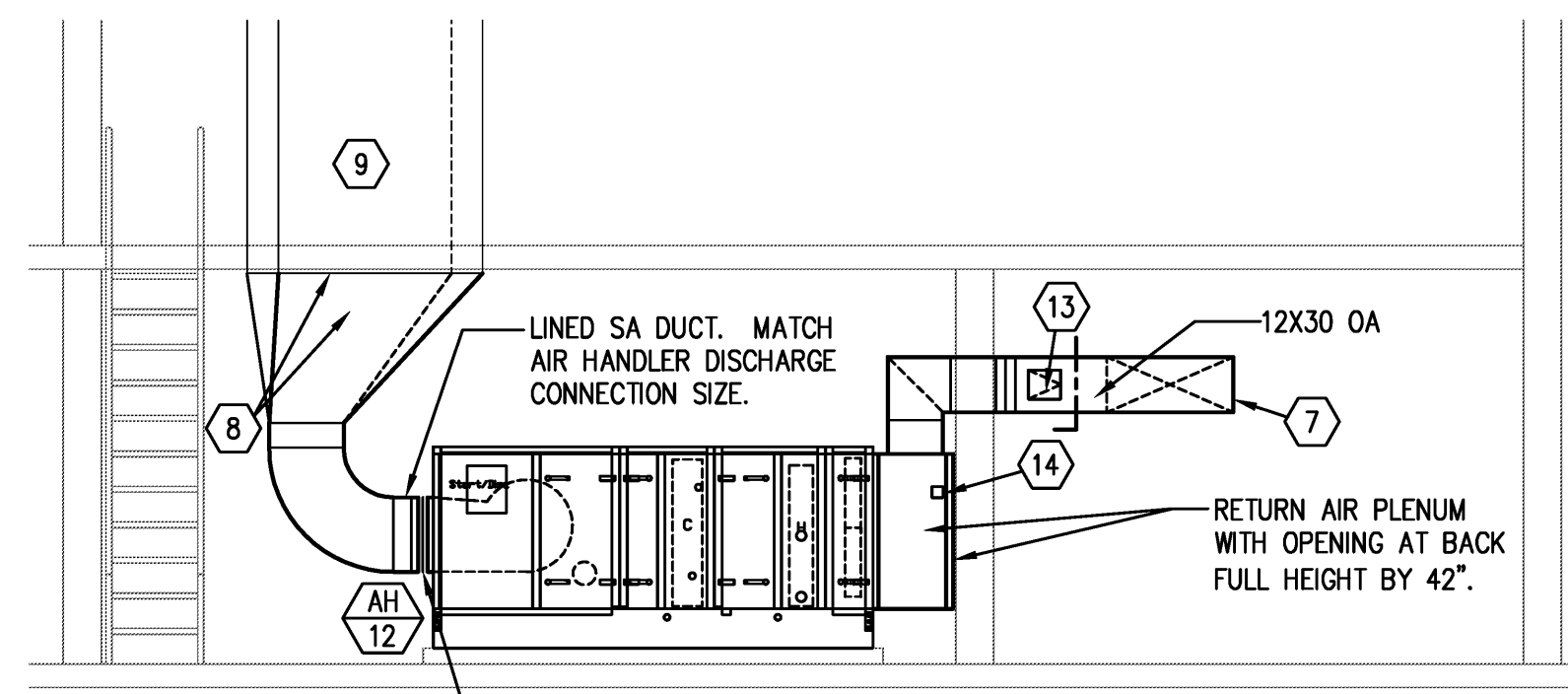
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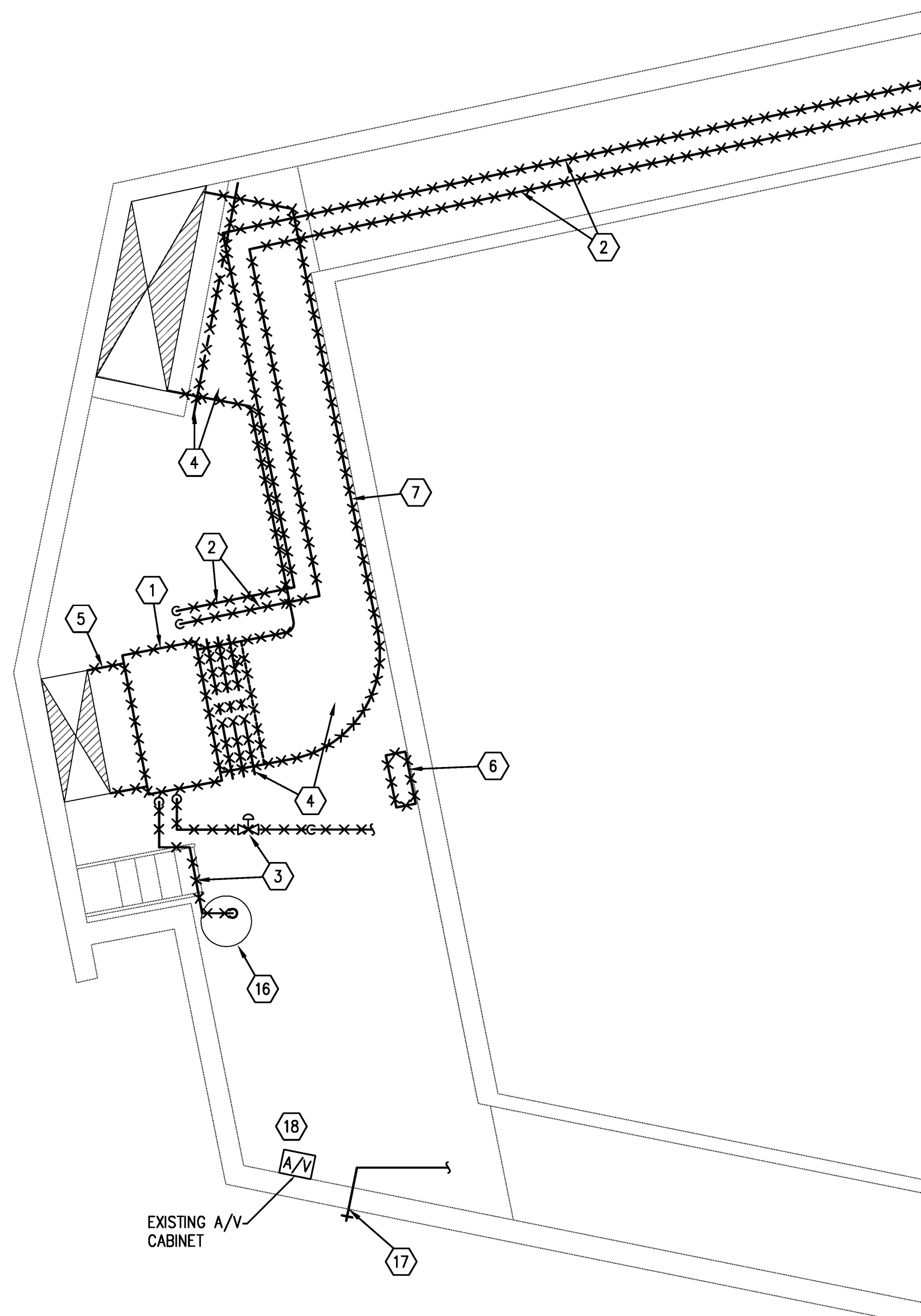
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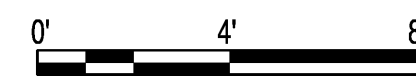
A MECHANICAL SECTION
M101 SCALE: 1/4" = 1'-0"



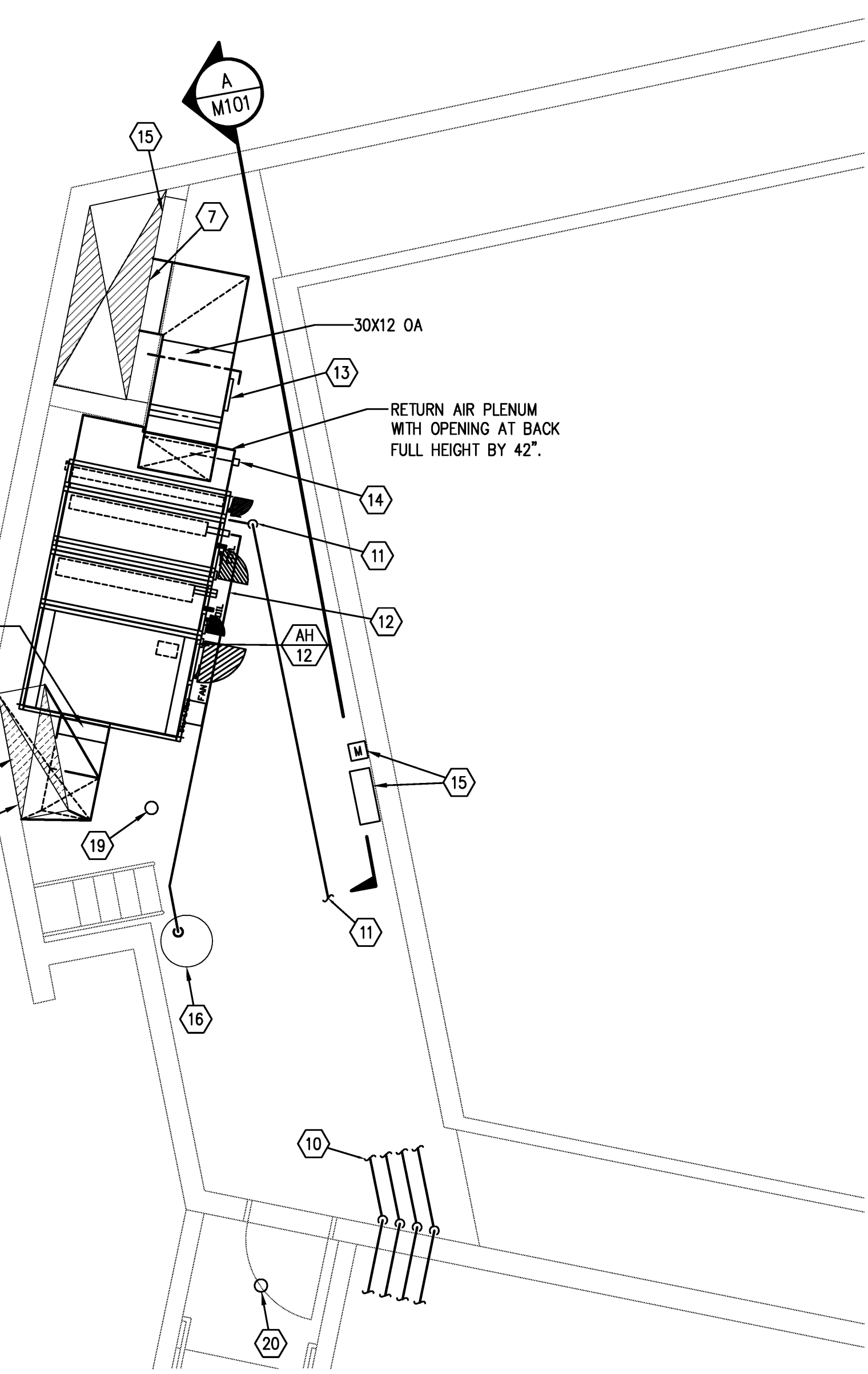
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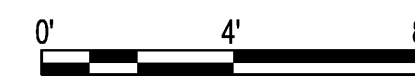
2 MECHANICAL ROOM DEMOLITION PLAN
M101 SCALE: 1/4" = 1'-0"



A



1 MECHANICAL ROOM PLAN
M101 SCALE: 1/4" = 1'-0"



GENERAL NOTES

- EXISTING DUCTWORK AND EQUIPMENT SHOWN FOR CONTRACTOR'S REFERENCE. FIELD DETERMINE EXACT SIZE, ELEVATION, AND LOCATION OF EXISTING ITEMS, INCLUDING THEIR RELATIONSHIP WITH INTENDED WORK PRIOR TO STARTING ANY WORK.
- DRAWINGS SHOW GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. FOLLOW AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AFFECTING THIS WORK AND ARRANGE WORK ACCORDINGLY. PROVIDE SUCH FITTINGS, VALVES, AND ACCESSORIES REQUIRED TO MEET CONDITIONS.
- PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED BY NEW CONSTRUCTION TO MATCH EXISTING.
- SAW CUT OR CORE DRILL ALL NEW PENETRATIONS THROUGH EXISTING MASONRY CONSTRUCTION.
- IF CONTRACTOR ENCOUNTERS MATERIAL THAT MAY CONTAIN ASBESTOS, HE SHALL IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- DEMOLITION - GENERAL:
 - REMOVAL OF EQUIPMENT, PIPING, OR DUCTWORK TO INCLUDE REMOVAL OF ALL RELATED APPURTENANCES SUCH AS WIRING, CONDUIT, SUPPORTS, ETC. AND MODIFICATIONS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
 - REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
 - REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
 - REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
 - REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
 - REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
- REMODEL - GENERAL:
 - ALL NEW CONDUIT, PIPING, DUCT, EQUIPMENT, AND APPURTENANCES TO BE CONCEALED UNLESS OTHERWISE NOTED.
 - EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO BE REMOVED AS REQUIRED AND REPLACE TO MATCH EXISTING.

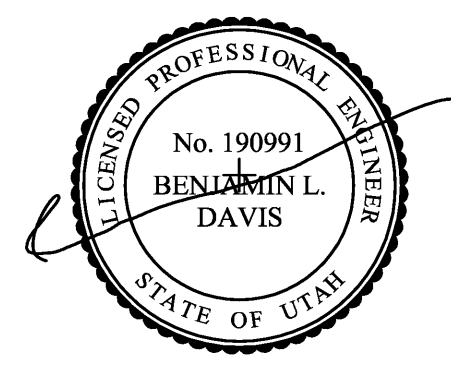
KEYED NOTES

- REMOVE EXISTING AIR HANDLER IN ITS ENTIRETY INCLUDING DUCTS, CONTROLS AND ACCESSORIES FOR REPLACEMENT.
- REMOVE EXISTING DOMESTIC WATER COOLING PIPING BACK TO MAINS AND CAP.
- REMOVE EXISTING STEAM AND STEAM CONDENSATE PIPING BACK TO LOCATION SHOWN FOR RE-ROUTING TO NEW AH STEAM COIL. INCLUDES ALL TRAPS AND CONTROLS.
- REMOVE EXISTING RA/OA DUCTWORK, DAMPER AND ASSOCIATED ACTUATORS, INCLUDING ALL RELATED PNEUMATIC TUBING BACK TO MAINS.
- REMOVE EXISTING MAIN SUPPLY DUCT TO MECHANICAL ROOM CEILING FOR REPLACEMENT AND RECONNECTION.
- REMOVE EXISTING RP PANEL AND THERMOSTAT FOR REPLACEMENT.
- CONNECT NEW OUTSIDE AIR DUCT TO EXISTING OUTSIDE AIR AREA-WELL. PROVIDE CAP OVER OPENING.
- CONNECT NEW SUPPLY DUCT TO EXISTING MAIN SUPPLY. TRANSITION AS REQUIRED.
- SEE SHEET M102 FOR CONTINUATION.
- ROUTE NEW REFRIGERANT PIPING FROM NEW AIR-COOLED CONDENSING UNITS TO NEW DX COOLING COIL AT AH-12.
- 2" STEAM TO AH-12 STEAM HEATING COIL. REFER TO DETAIL C/M601 FOR STEAM AND CONDENSATE CONNECTIONS TO COIL.
- ROUTE 1" CONDENSATE RETURN PIPE BACK TO EXISTING CONDENSATE PUMP.
- OUTSIDE AIR DAMPERS, ACTUATOR, AND ACCESS DOOR. REFER TO DETAIL D/M601.
- DUCT SMOKE DETECTOR. MOUNT IN MAIN RETURN AIR DUCT UPSTREAM OF OUTSIDE AIR DUCT CONNECTION.
- NEW RP PANEL AND EQUIPMENT INTERFACE MODULE. REFER TO ATC PLANS.
- EXISTING CONDENSATE RETURN TANK AND PUMP, INCLUDING CONTROLS, TO REMAIN.
- RELOCATE EXISTING HOSE BIBB TO THE EAST. COORDINATE EXACT LOCATION WITH NEW CONDENSING UNITS AND ASSOCIATED DISCONNECTS.
- SEE SHEET EP101 FOR RELOCATION OF EXISTING A/V CABINET.
- EXISTING FLOOR DRAIN. CLEAN OUT DRAIN BODY AND VERIFY PROPER DRAINAGE.
- PROVIDE FLOOR DRAIN FOR DRAINAGE INTO SUMP. ZURN Z505 OR EQUAL.



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REVISIONS

NO.	DESCRIPTION

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SHEET CONTENTS

MECHANICAL ROOM FLOOR PLANS

M101

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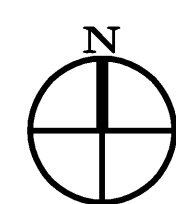
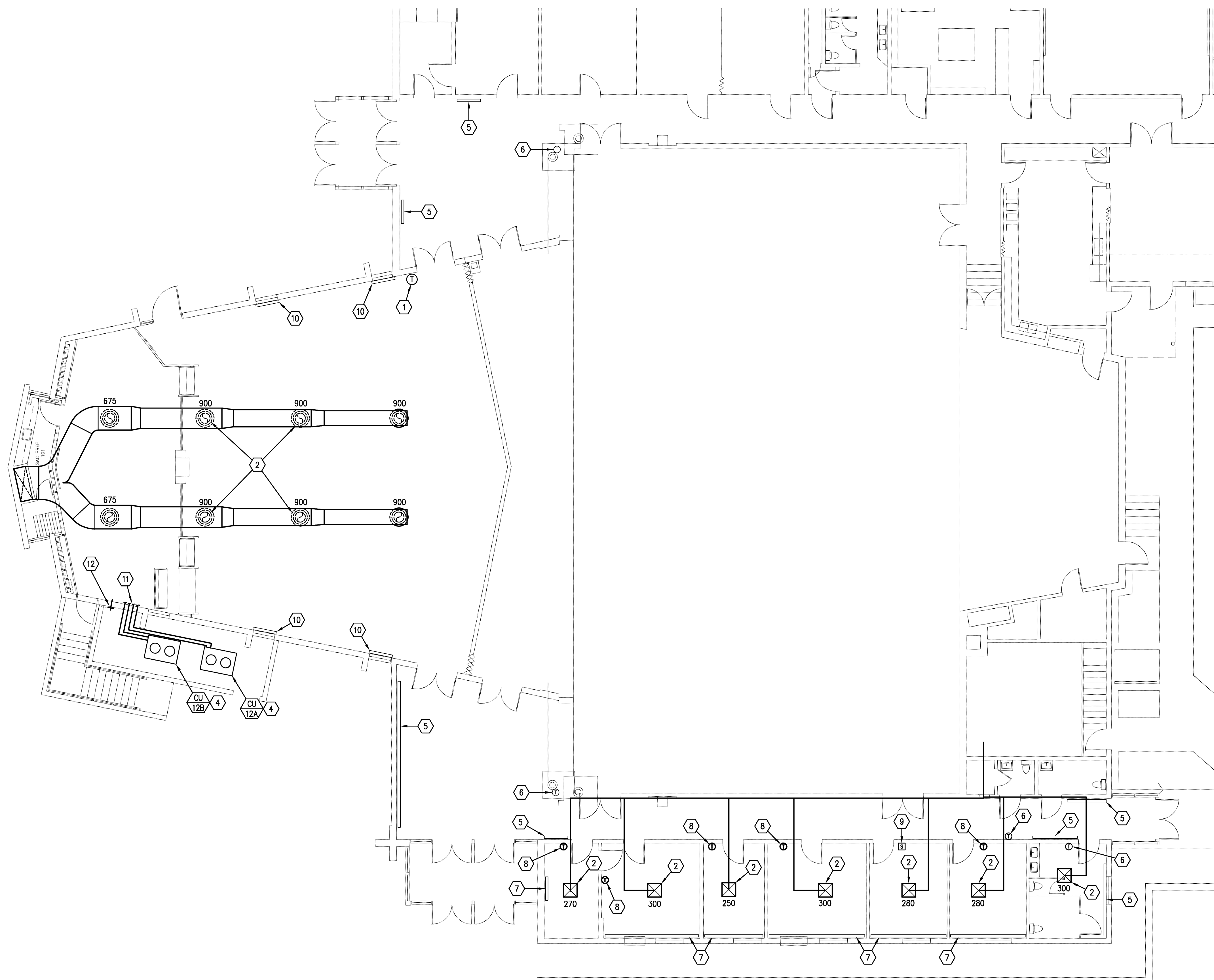
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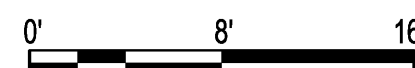
B

A



1
M102

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



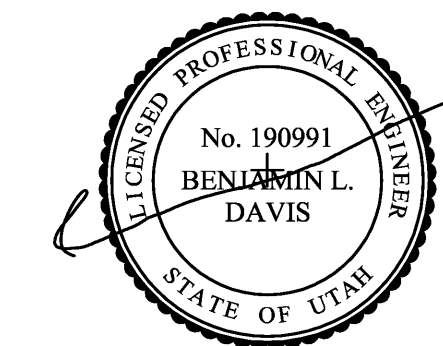
KEYED NOTES

1. LOCATION OF NEW THERMOSTAT. REMOVE EXISTING REMOTE SENSOR.
2. RE-BALANCE EXISTING SUPPLY OUTLET TO VOLUME NOTED.
3. INSTALL NEW 4" CONCRETE SLAB ON COMPACTED BASE FOR NEW MECHANICAL EQUIPMENT. REFER TO ARCHITECTURAL PLAN. PROVIDE EXPANSION JOINT AGAINST BUILDING AND AS REQUIRED IN SLAB. REMOVE/REVISE EXISTING LANDSCAPING, IRRIGATION, AND OTHER EXISTING WORK AS REQUIRED TO ACCOMMODATE NEW WORK. SLOPE CONCRETE TO DRAIN AWAY FROM BUILDING 1/4" PER FOOT.
4. NEW AIR COOLED CONDENSING UNIT AND REFRIGERANT PIPING. FIELD VERIFY EXACT LOCATION TO MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCES. REFER TO SHEET M501 FOR REFRIGERANT PIPING SCHEME AND DETAILS.
5. EXISTING PERIMETER STEAM RADIATION TO REMAIN. REPLACE EXISTING PNEUMATIC CONTROL VALVE WITH NEW HONEYWELL VB0431 CONTROL VALVE. PROVIDE 120V/24V TRANSFORMER IN TUNNEL BELOW AS REQUIRED.
6. REMOVE EXISTING PNEUMATIC THERMOSTAT AND REPLACE WITH ELECTRIC THERMOSTAT (HONEYWELL T87F).
7. EXISTING PERIMETER STEAM HEAT TO REMAIN AND BE ABANDONED. CLOSE SHUT-OFF VALVE AND REMOVE EXISTING PNEUMATIC CONTROL.
8. REMOVE EXISTING PNEUMATIC CONTROL THERMOSTAT. PATCH AND REPAIR WALL.
9. EXISTING REMOTE SENSOR SERVING CLASSROOM FAN COIL UNIT TO REMAIN.
10. EXISTING CHAPEL CONVECTOR TO REMAIN. INTEGRATE EXISTING CONTROL VALVES INTO NEW CONTROLS. FIELD VERIFY EXACT WIRING AND PROVIDE RELAYS AS REQUIRED.
11. SEE 1/M101 FOR CONTINUATION.
12. RE-INSTALL EXISTING HOSE BIBB. COORDINATE EXACT LOCATION WITH NEW EQUIPMENT DISCONNECTS.



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**MAIN FLOOR
MECHANICAL PLANS**

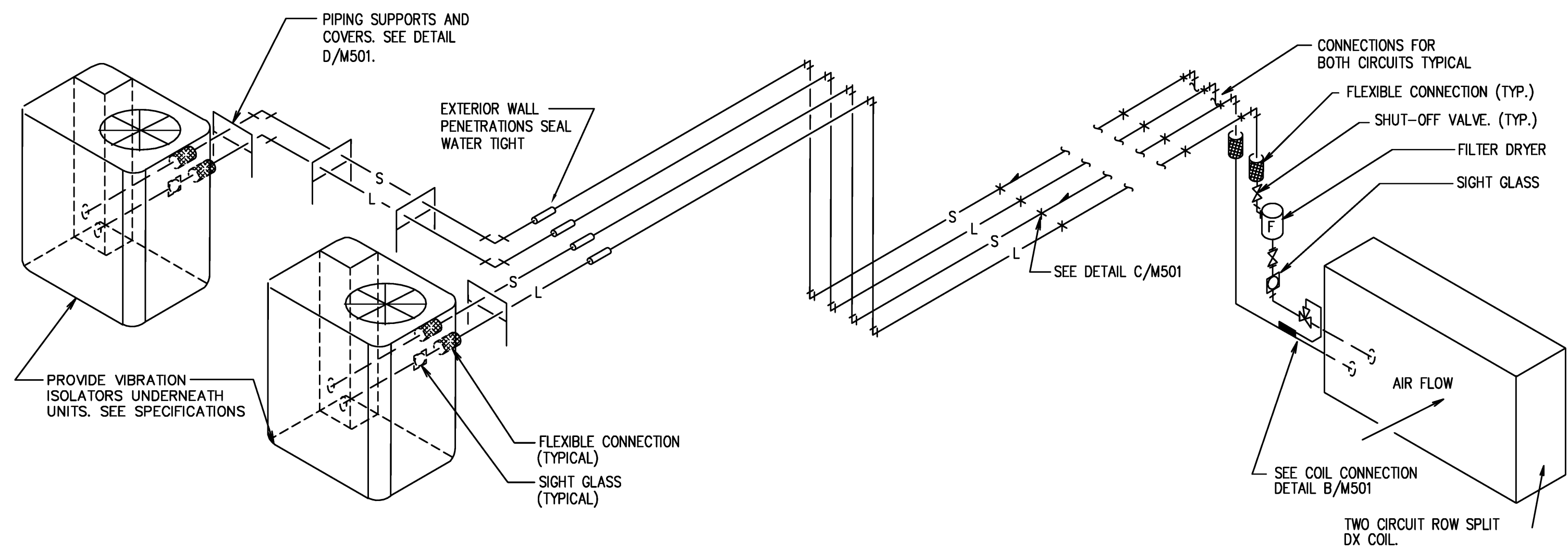
M102

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C

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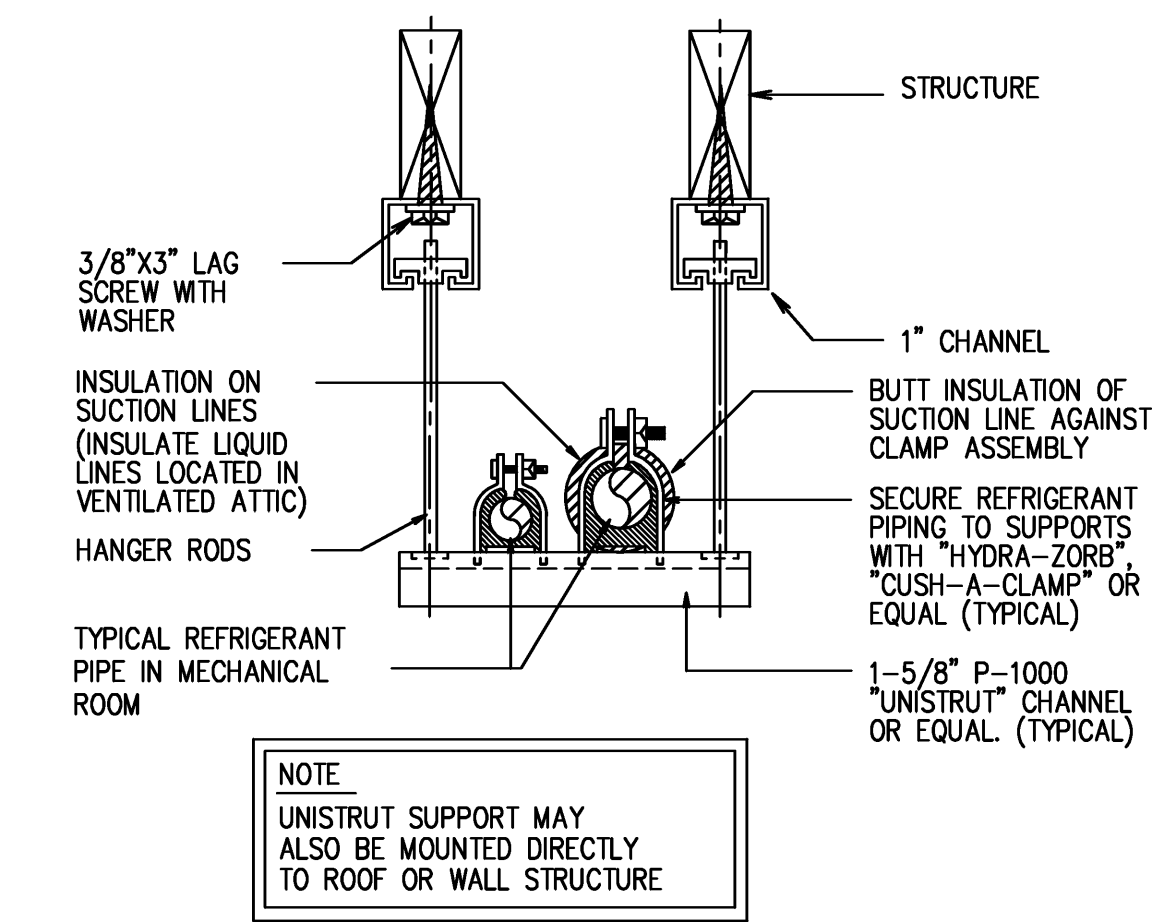
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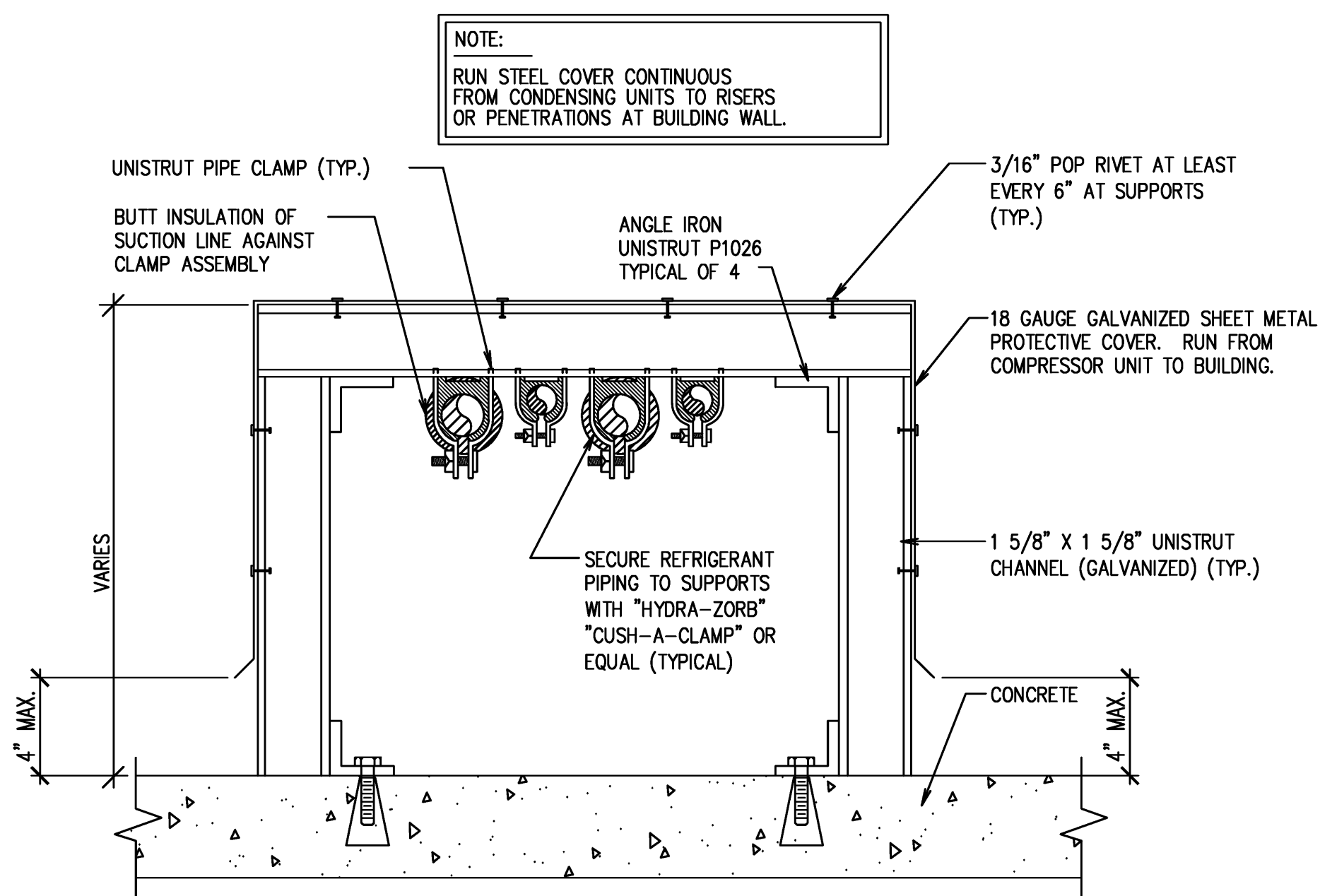
A REFRIGERANT SCHEME
M501 NO SCALE (CU-11a & 11b)

THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE NOT ALLOWED ON VERTICAL LINES

B REFRIGERANT COIL CONNECTION DETAIL
P501 NO SCALE



C SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING
M501 NO SCALE



D EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL
M501 NO SCALE

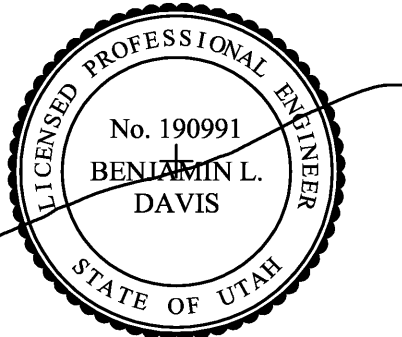
REFRIGERANT PIPING LEGEND	
SYMBOL	DESCRIPTION
	EXPANSION VALVE. SEE DETAIL B/M501.
	MOISTURE INDICATING SIGHT GLASS
	FILTER DRIER
	PIPE SUPPORT. SEE DETAIL C/M501.
	EXTERIOR PIPE SUPPORT. SEE DETAIL D/M501.
	DIRECTION OF SLOPE DOWN
	SUCTION LINE
	LIQUID LINE
	FLEXIBLE CONNECTION

REFRIGERANT LINE SIZES			
UNIT	LIQUID	SUCTION	REMARKS
CU 12a	1/2"	1 3/8"	7.5 TON
CU 12b	1/2"	1 3/8"	7.5 TON



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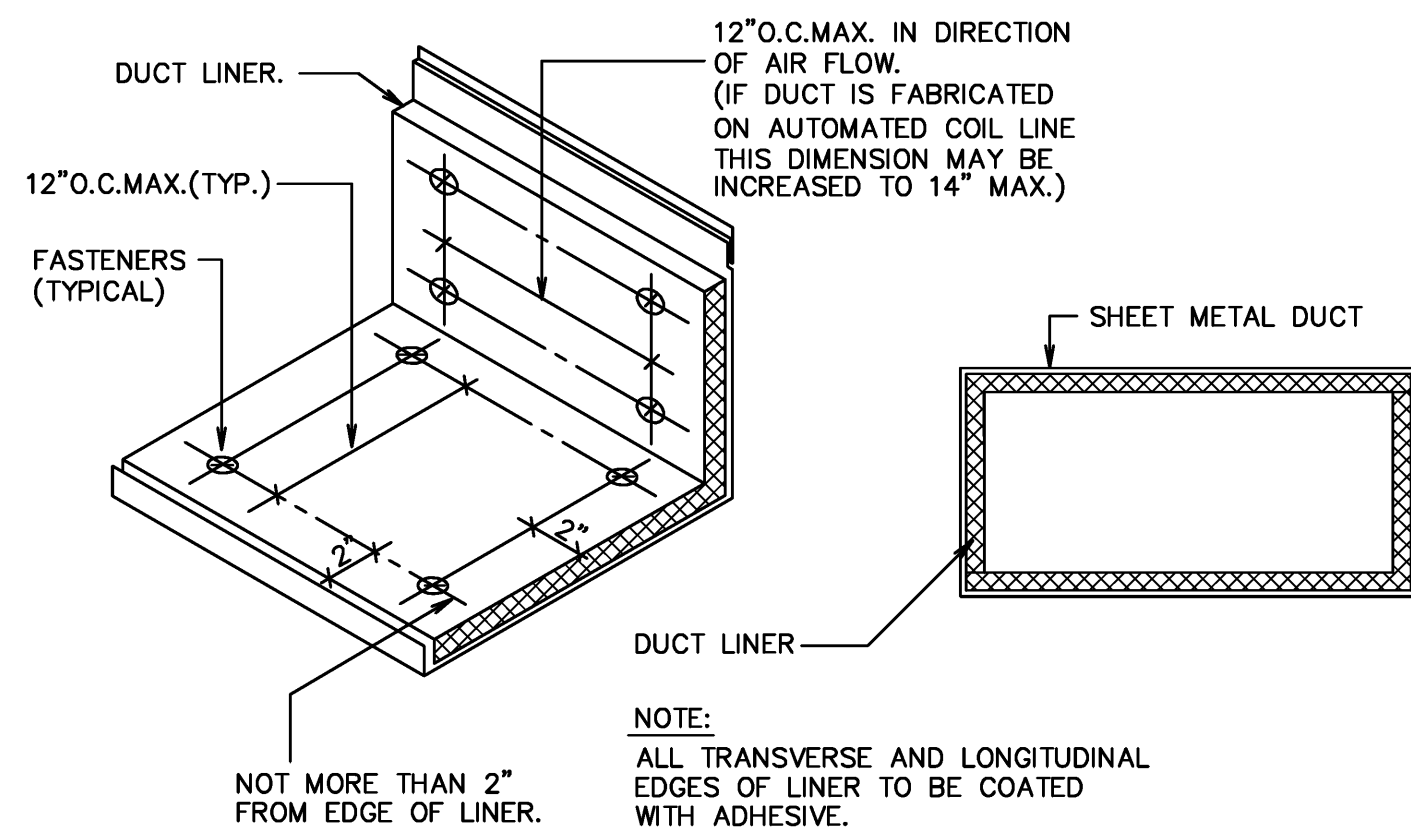
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SHEET CONTENTS
MECHANICAL
DETAILS

M501

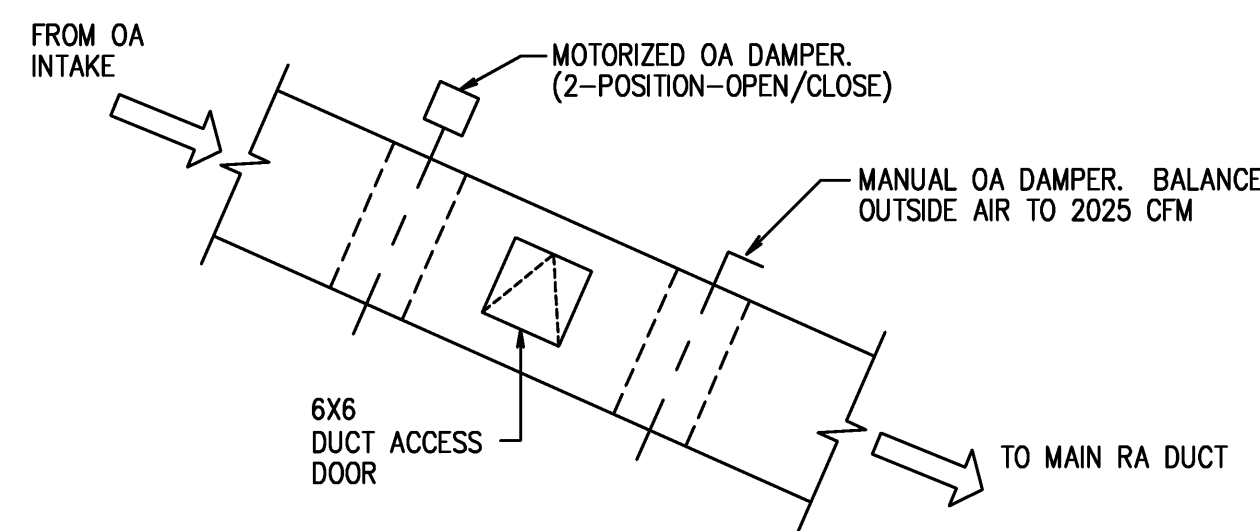


A DUCT LINER DETAIL
M601 NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			AT JOINTS				
			MIN. H. IN.	DRIVE SLIP	HEMME S SLIP	ALTERN'T BAR SLIP	REIN-FORCED BAR SLIP
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"x1"x1/8" @ 60 IN	1	-	24	24	24
31 - 36	22	1"x1"x1/8" @ 60 IN	1	-	-	22	22

- (1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.
- (2) LONGITUDINAL JOINTS TO BE PITTSBURG OR SNAP LOCK TYPE.

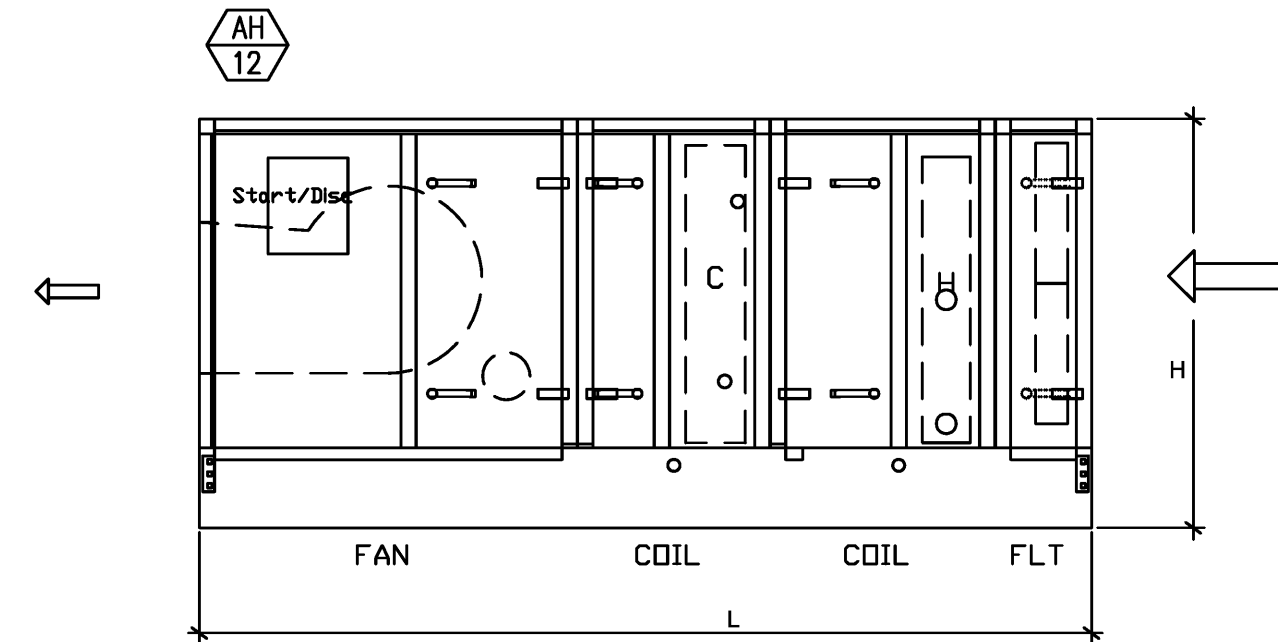
B DUCT CONSTRUCTION DETAIL
M601 NO SCALE



D OUTSIDE AIR DUCT DETAIL
M601 NO SCALE

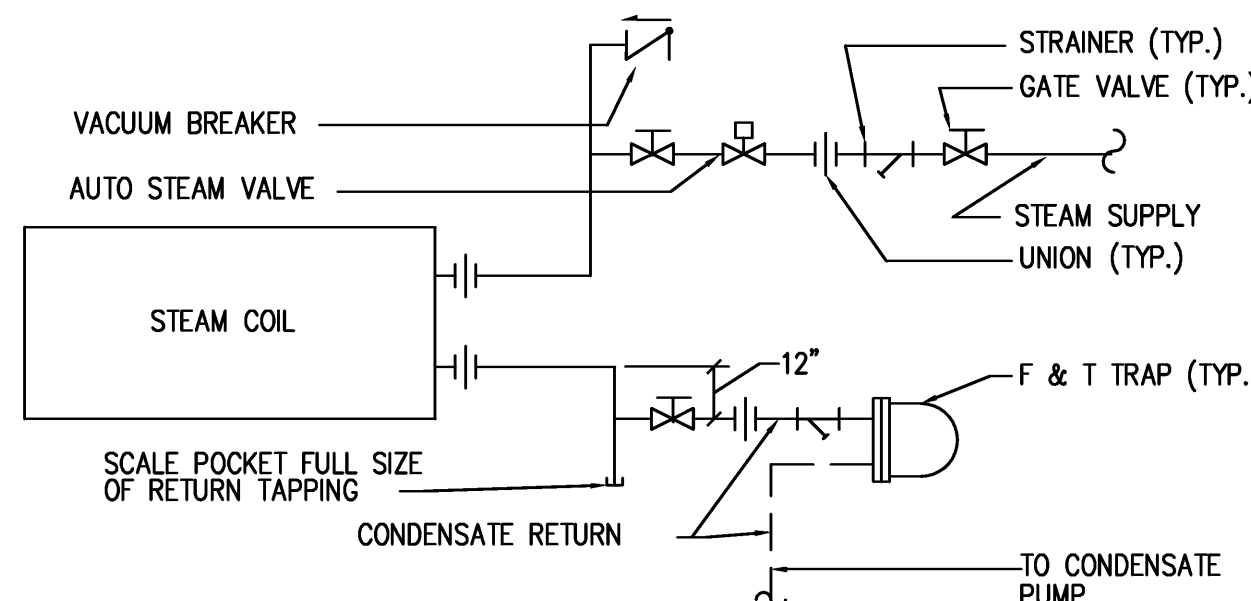
SYMBOL	MANUFACTURER & MODEL NO.	AREA SERVED	DESCRIPTION	ACFM	DX COOLING COIL		STEAM HEATING COIL			FILTER SECTION	SUPPLY FAN TYPE/ARRANGEMENT & RPM	TOTAL S.P. IN. W.G.	ELECTRICAL				MAXIMUM OVERALL DIMENSIONS LxWxH	COMMENTS
					MIN. REQUIRED CAP. (6)	SENS.	MBH (7)	STEAM LBS/HR	VALVE SIZE				BHP	HP	VOLT	PHASE		
AH 12	CARRIER 39MN 14W	CHAPEL	CENTRAL STATION AIR HANDLING UNIT	6750	174.7	174.7	297	305	1 1/4"	FLAT W/REAR INLET	BHF ARR. 1 756	1.4	2.7	3.0	208	3	111"x 79"x 51"	(1)(2)(3)(4)(5)(6)(7)

- (1) ALL CONDITIONS AT 4500 FEET ELEVATION
- (2) ALL FILTERS 450 FPM MAXIMUM FACE VELOCITY. SEE SPECIFICATIONS FOR FILTER TYPES.
- (3) MAXIMUM FACE VELOCITIES FOR COOLING COILS = 550 FPM
- (4) PROVIDE 10" TALL BASE RAILS. MOUNT ON ADDITIONAL FRAMING AS REQUIRED FOR STEAM CONDENSATE DRAINAGE HEIGHT.
- (5) ROW SPLIT COOLING COIL. TWO CIRCUITS, EQUAL CAPACITY.
- (6) COOLING BASED ON 80F E.A.D.B.; 62F E.A.W.B., AND 95F OUTSIDE AMBIENT. (40F SUCTION TEMP.)
- (7) HEATING BASED ON 40F E.A.T.; 5 PSIG STEAM, AND A MAXIMUM L.A.T. OF 110F. (ONE ROW, NON-FREEZE TYPE)



MARK	AREA SERVED	MODEL (1)	SIZE	CONTROL TYPE	Cv (2)	STEAM FLOW RATE (LBS/HR)
SV-2	CHAPEL AH-12	V5011N 2071	1 1/4"	MODULATING	15.3	305

- (1) MODEL NUMBER SHOWN IS HONEYWELL.
- (2) Cv VALUES BASED ON 5 PSIG SUPPLY PRESSURE AND A 2 PSIG DIFFERENTIAL PRESSURE.



C STEAM COIL PIPING DETAIL
M601 NO SCALE

SERVING	MAXIMUM #S/HR.	PSIG STEAM	CONNECTION SIZE
AH-12	600	5	1 1/4"
END OF MAIN	100	2	3/4"

- (1) CAPACITIES BASED ON 1/2 PSI PRESSURE DIFFERENTIAL.

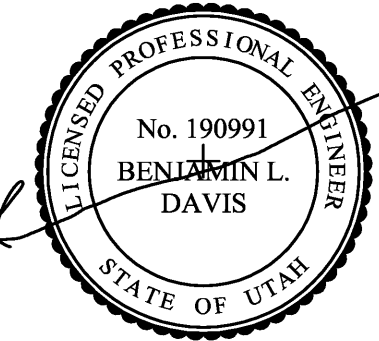
MARK	MIN. NOMINAL SIZE (TONS) (3)	MINIMUM CIRCUIT AMPACITY (6)	MOCP (6)	POWER SUPPLY (5)	REMARKS
CU 12a	7.5	34.3	50	(5)	38AUZ 008 (1)(2)
CU 12b	7.5	34.3	50	(5)	38AUZ 008 (1)(2)

- (1) CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- (2) REFRIGERANT R-410a; 40 DEGREE SUCTION TEMPERATURE.
- (3) AT DESIGN CONDITIONS AND 95F ENTERING AIR TEMPERATURE TO CONDENSER.
- (4) CONDENSING UNIT MARKS CORRESPOND WITH AIR HANDLER SYSTEM MARKS.
- (5) ELECTRICAL CHARACTERISTICS-COMPRESSOR: 208/230V/3 PHASE/60HZ
- (6) ELECTRICAL RATING FOR SCHEDULED CARRIER UNIT. COORDINATE ACTUAL RATING OF UNIT PROVIDED WITH DIVISION 26.



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MECHANICAL SCHEDULES AND DETAILS

M601

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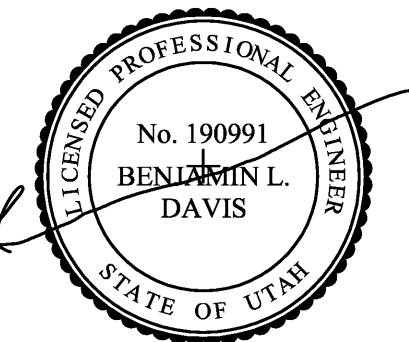
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CONTROL EQUIPMENT

Table with columns: MARK, DESCRIPTION, CAT. NO., MARK, DESCRIPTION, CAT. NO. Includes items like REDLINK INTERNET GATEWAY, THERMOSTAT KIT, EQUIPMENT INTERFACE MODULE, TRANSFORMER, THERMOSTAT GUARD, DUCT AIR SENSOR, CO2 SENSOR, LOW LIMIT SENSOR, RELAY PANEL, HONEYWELL SMART DRIVE, DAMPER MOTOR, SMOKE RELAY, TWO POLE RELAY, VALVE CONTROL MODULE, 2-WAY MODULATING CONTROL VALVE, VALVE MOTOR.

- ① ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE. ② SEE SPECIFICATIONS ③ PROVIDE ENCLOSURE ④ TO BE PURCHASED FROM AN APPROVED PANEL BUILDER SEE SPECIFICATION. ⑤ TO BE SELECTED BY EQUIPMENT PROVIDER. TO MATCH SUPPLIED FAN MOTOR. ⑥ REFER TO VALVE SCHEDULE SHEET M-601 ⑦ ATKINSON ELECTRONICS

NOTES:

- 1. BOXES FOR THERMOSTAT ① OUTLETS SHALL BE 2"x4" WITH LONG DIMENSION VERTICAL. USE METAL BRACKET OF COVER PLATE ASSEMBLY TO MOUNT THERMOSTAT HORIZONTAL. MOUNT ON INSULATED WOOD PANEL. REFER TO DETAIL A/ME202. 2. CONDUIT TO BE 1/2" UNLESS NOTED OTHERWISE. 3. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION LINES. SEE SPECIFICATIONS FOR ACCEPTABLE FASTENING METHODS AND MAXIMUM ALLOWABLE SPACING BETWEEN FASTENERS. 4. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE LABELED. PROVIDE A LABEL AT ALL POINTS WHERE TEMPERATURE CONTROL WIRING ENTERS CONDUIT AND AT CONNECTIONS TO DEVICES. 5. SEAL OPEN END OF CONDUIT AIR-TIGHT AROUND THERMOSTAT WIRE WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT. 6. SEAL ANNULAR SPACE BETWEEN CONDUIT AND OPENING IN FLOOR OR WALL WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT. 7. SEAL OPEN END OF CONDUIT AT J-BOX AIR TIGHT AROUND THERMOSTAT WIRE. SEAL ALL AIR GAPS AROUND J-BOX TO ISOLATE J-BOX FROM WALL CAVITY. SEAL BACK OF THERMOSTAT AROUND WIRES. PACK J-BOX TIGHT WITH GLASS FIBER BATT INSULATION. USE SEALING COMPOUND SPECIFICALLY MADE FOR REFRIGERATION AND AIR CONDITIONING APPLICATIONS. SEE SPECIFICATIONS FOR APPROVED PRODUCTS.

SYMBOLS (SEE FLOOR PLANS FOR LOCATIONS)

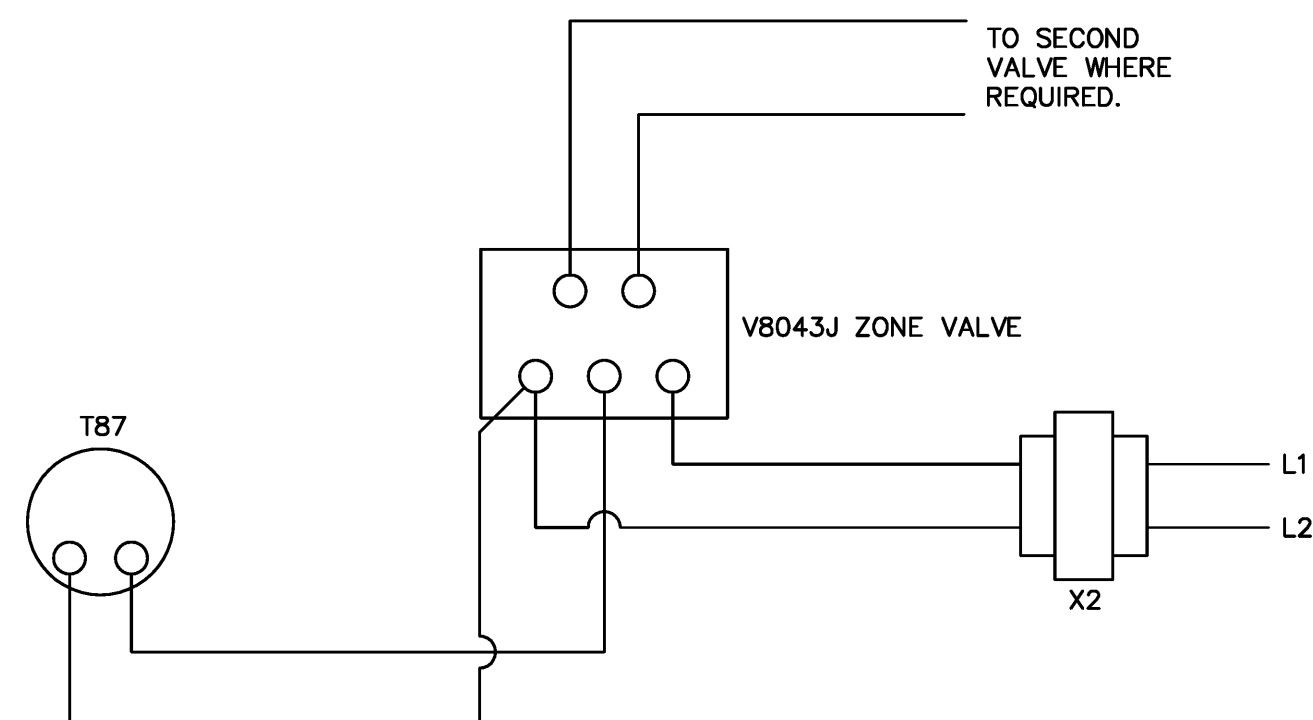
- [M] EQUIPMENT INTERFACE MODULE (DIV 23). MOUNT MODULE IN ACCESSIBLE LOCATION NEAR ASSOCIATED EQUIPMENT. [T] THERMOSTAT OUTLET (DIV 23) [RIG] RIG MODULE (DIV 23) [RP] RELAY PANEL (DIV 23) MOUNT 5'-0" TO BOTTOM OF CABINET [CO2] CO2 SENSOR (DIV 23) INSTALL UPSTREAM OF OUTSIDE AIR CONNECTION.

REVISIONS

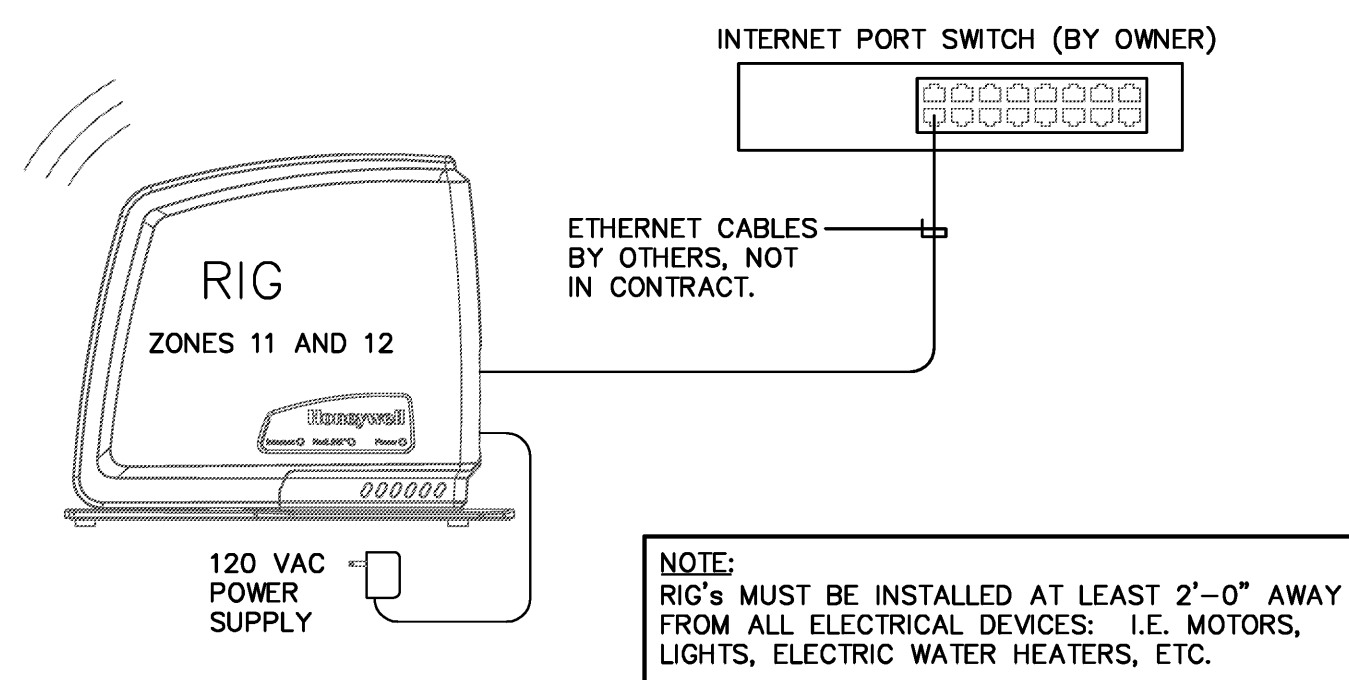
Table with columns: VBF PROJECT #, CHECKED BY, DRAWN BY, CURRENT/ISSUE DATE. Includes values like 17329, JA, GGS, JAN 2018.

SHEET CONTENTS ATC - FLOOR PLAN AND SCHEDULE

ME101



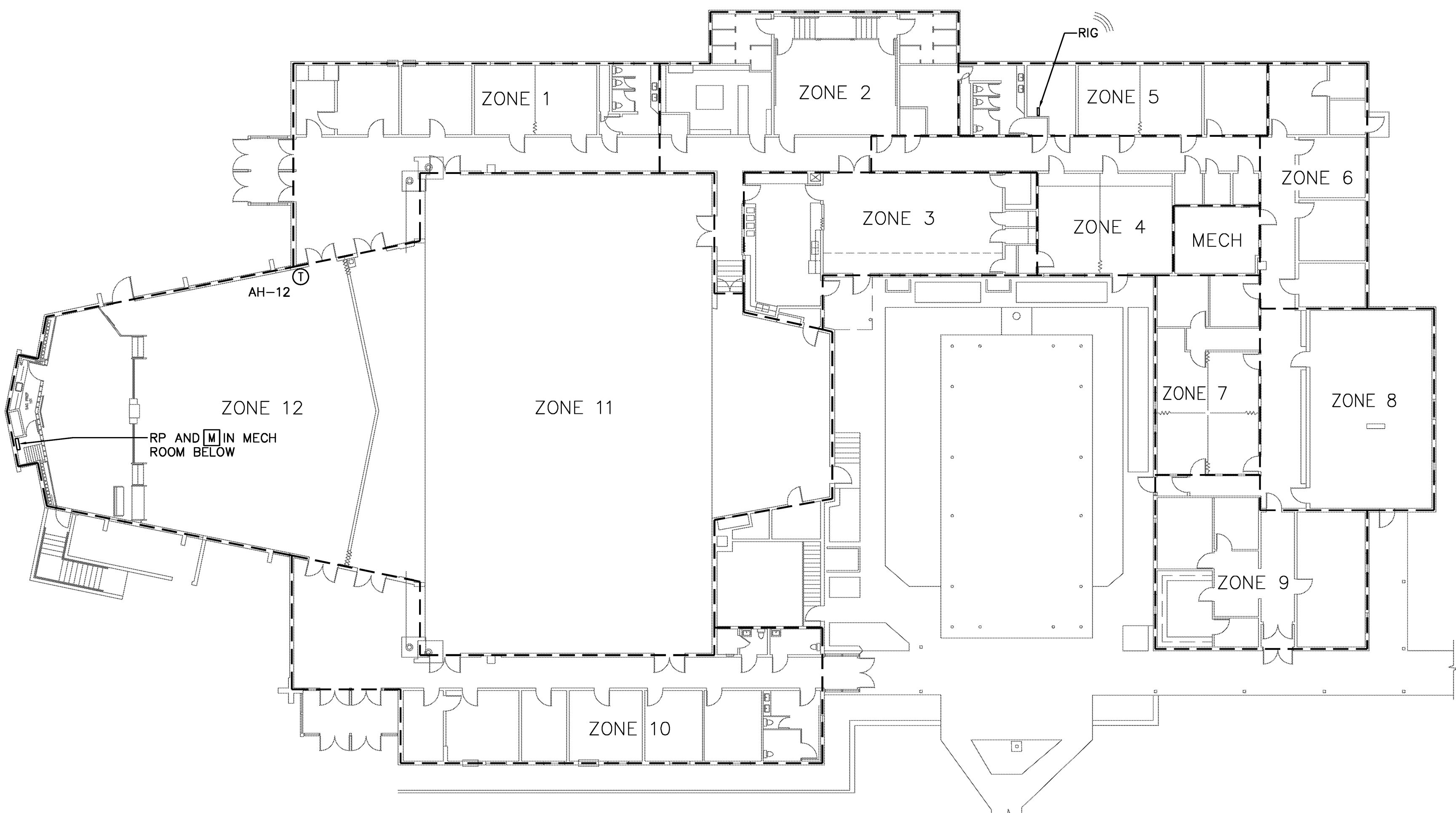
NEW T87 THERMOSTAT AT EXISTING PERIMETER HEAT NO SCALE



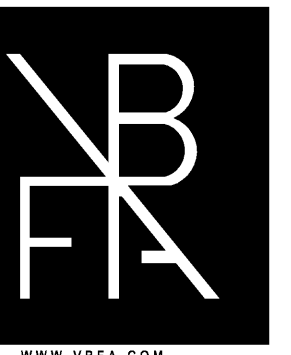
RIG WIRING DIAGRAM

- NOTES: 1. ETHERNET CABLE MAY REQUIRE LENGTHS UP TO 100 FEET. 2. RIG MODULES MUST BE INSTALLED AT LEAST 2'-0" APART. 3. PROVIDE MULTIPLE OUTLET POWER BAR FOR ALL RIG'S.

NOTE: ALL DEVICES MUST BE INSTALLED AT LEAST 2'-0" APART (TYPICAL)

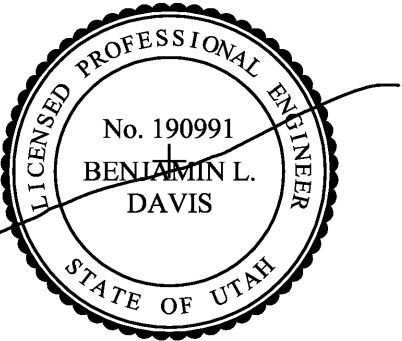


1 ATC - ZONE FLOOR PLAN SCALE: 1/16" = 1'-0" ME101



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Van Boerum & Frank Assoc., 2014

Hobble Creek 1, 3, 13 & Springville UT Hobble Creek Stk.

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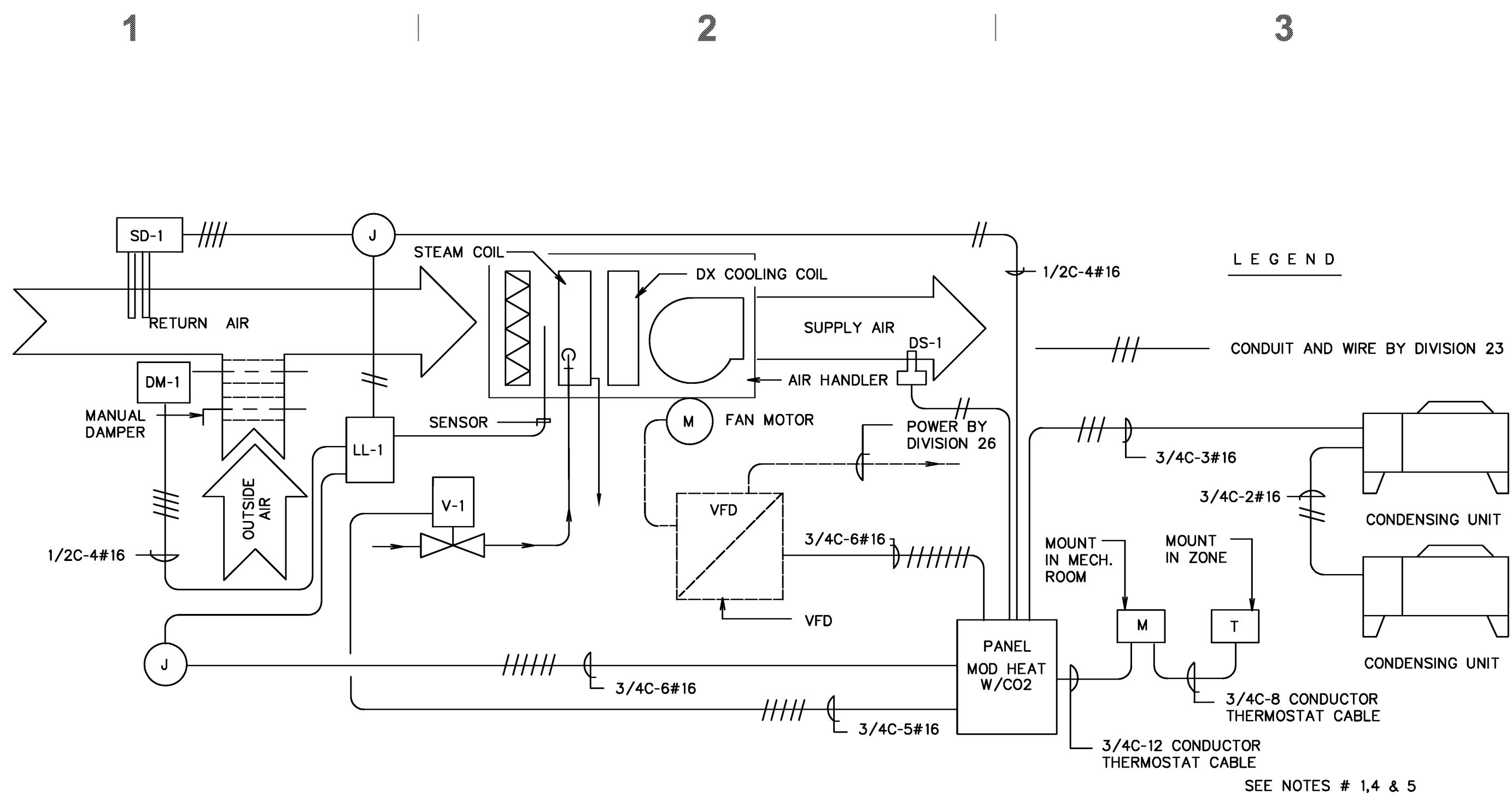
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VBFA PROJECT #: 17329
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CURRENT ISSUE DATE: JAN 2018

SHEET CONTENTS

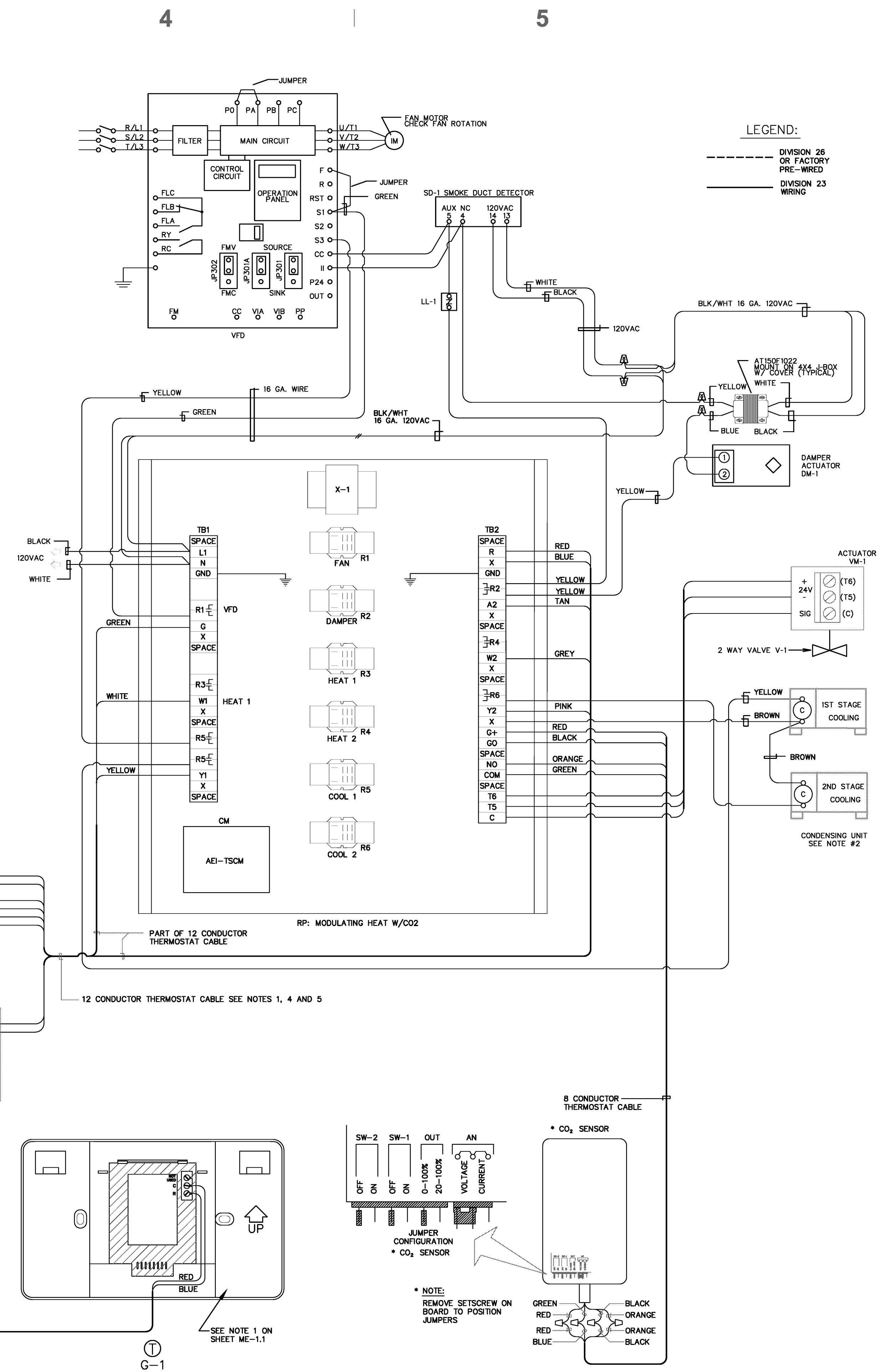
AUTOMATIC
TEMPERATURE
CONTROLS

ME701



CONDUIT DIAGRAM FOR CHAPEL

(EXISTING CONDUIT MAY BE RE-USED IF IT MEETS REQUIREMENTS)



NOTES:

1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
5. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO MODULE, AND MODULE TO DISCHARGE AIR SENSOR.
6. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
7. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
8. INSTALL WIRELESS OUTSIDE AIR SENSOR ON NORTH SIDE OF BUILDING ACCESSIBLE BY OWNER. ONE OUTSIDE AIR SENSOR PER 4 THERMOSTATS MAX.

WIRING DIAGRAM FOR CHAPEL

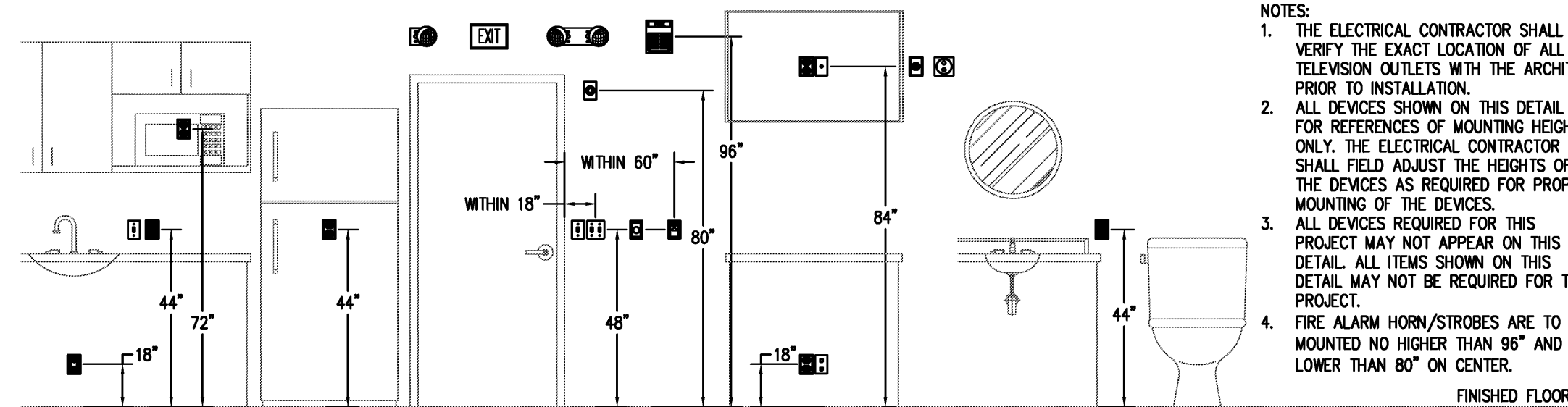
SYSTEM: ZONE 12

D

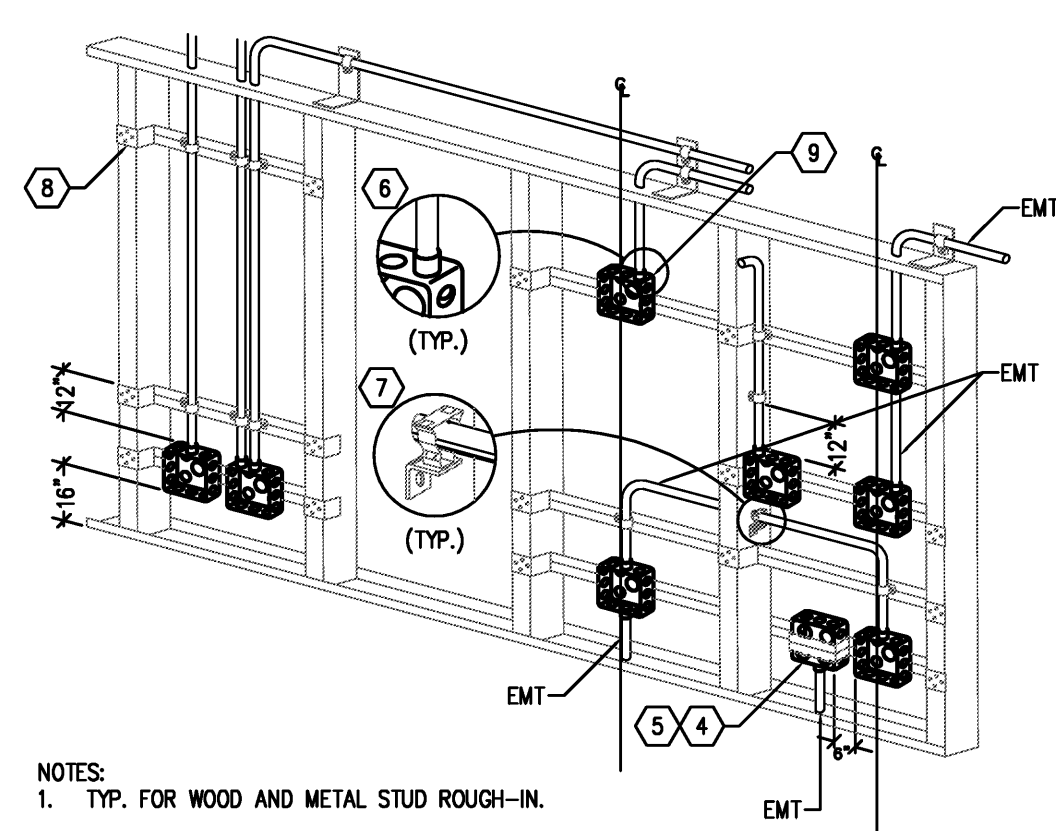
C

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A

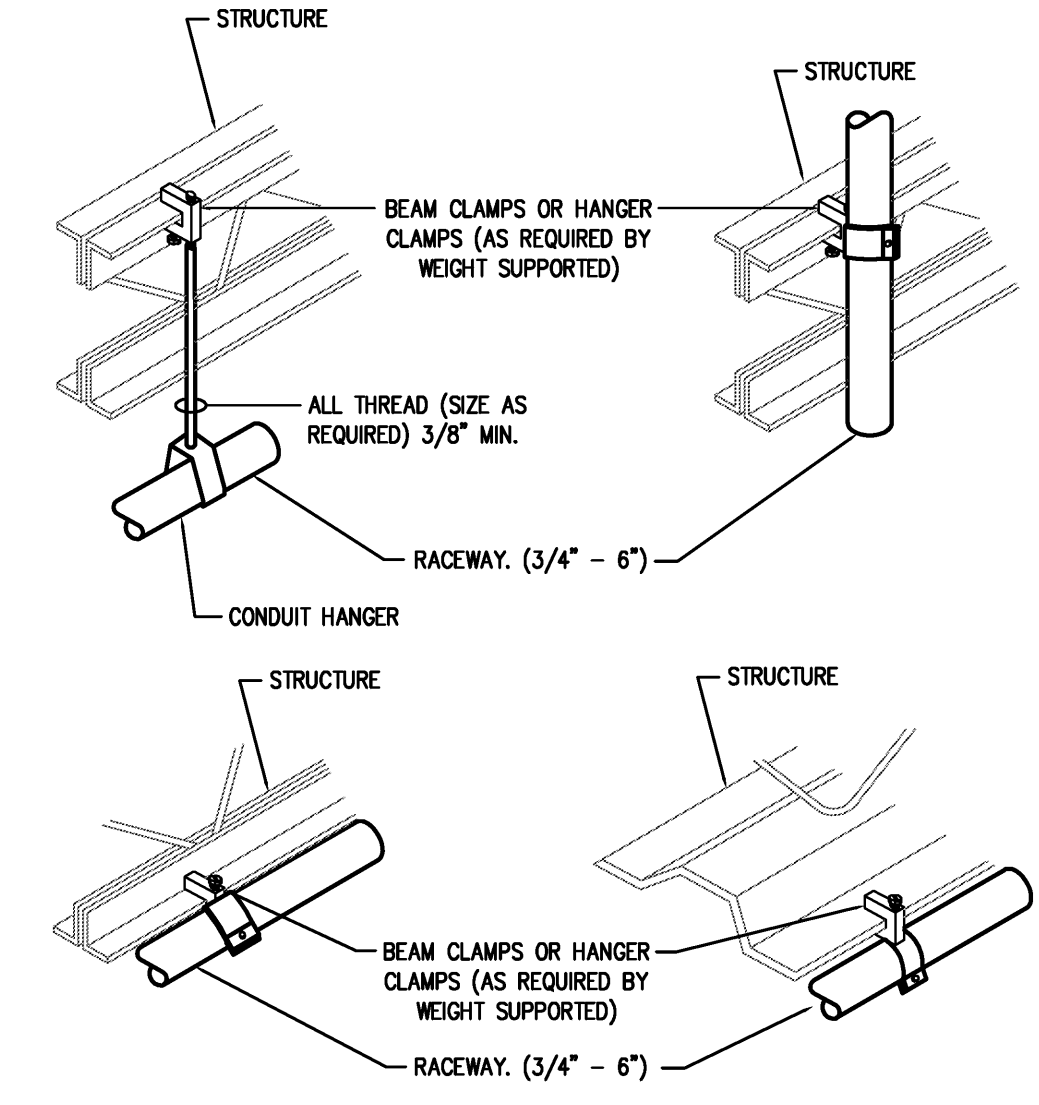


MT02
EG001 **MOUNTING HEIGHTS DETAIL**
NO SCALE



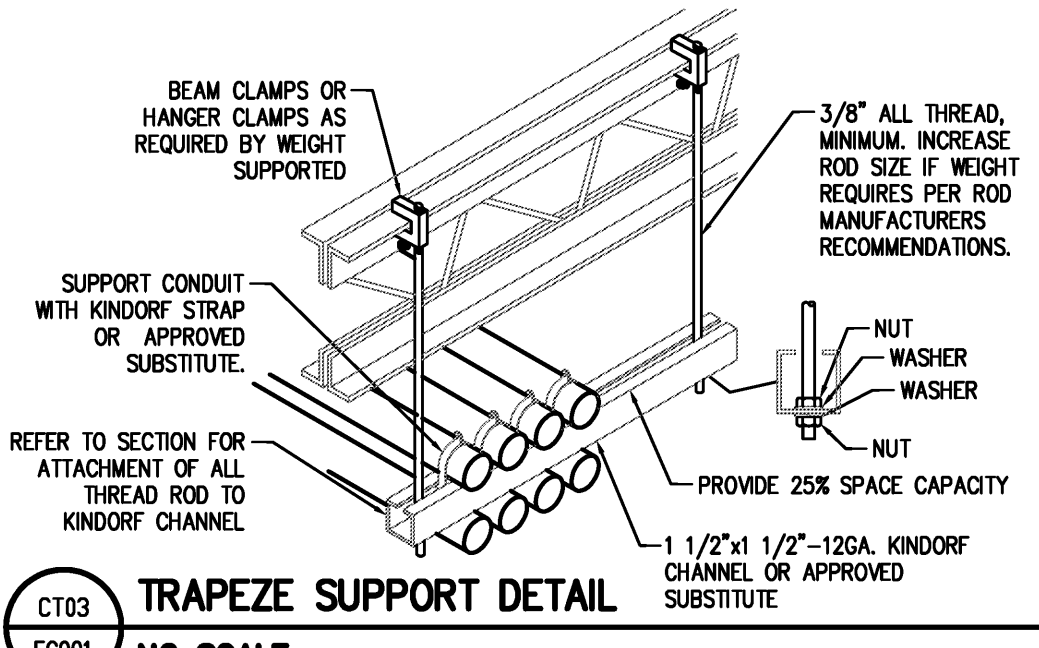
- NOTES:**
1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINISHED SURFACE, UNLESS NOTED OTHERWISE.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
 5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 714.3.2.
 6. INSULATED THROAT EMT CONNECTOR.
 7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT 'B12P'.
 8. ADJUSTABLE BAR HANGER.
 9. TYPICAL DEVICE JUNCTION BOX.

MT01
EG001 **TYPICAL ROUGH-IN DETAIL**
NO SCALE



- NOTES:**
1. WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.
 2. DO NOT SUPPORT ANY RACEWAY LARGER THAN 1" FROM BOTTOM CORNER OF STEEL TRUSSES.

CN03
EG001 **RACEWAY SUPPORT METHODS DIAGRAM**
NO SCALE



CT03
EG001 **TRAPEZE SUPPORT DETAIL**
NO SCALE

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (O)	(S) SIMPLEX (D) DUPLEX (O) QUADPLEX OR DOUBLE DUPLEX		
⊕	STANDARD CONVENIENCE OUTLET	18"	
⊕	CONVENIENCE OUTLET, GFCI	18"	
⊕	JUNCTION BOX	AS NOTED	(12)
⊕	MANUAL SWITCH WITH THERMAL OVERLOAD		
⊕	NON-FUSED DISCONNECT SWITCH		(13) (14)
⊕	FUSED DISCONNECT SWITCH		(13) (14)
⊕	MAGNETIC STARTER		(13) (14)
⊕	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
⊕	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
⊕	POWER RELAY		(13) (14)
⊕	MOTOR OUTLET		
⊕	TRANSFORMER	SEE PLANS	
⊕	MAIN DISTRIBUTION POWER PANEL		
⊕	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
⊕	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
⊕	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
⊕	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
⊕	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
⊕	LUMINAIRE TYPE		
⊕	DIAGRAM/DETAIL CALLOUT		
⊕	CONDUIT RUN CONCEALED IN WALL OR CEILING		
⊕	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
⊕	SURFACE RACEWAY/WIREMOLD		
⊕	LOW VOLTAGE CONDUIT RUN		
⊕	DEMOLITION		
⊕	EXISTING		
⊕	HOME RUN TO PANEL		
⊕	CONDUIT STUB		
⊕	CONDUIT BREAK/CONTINUATION		
⊕	CONDUIT STUB DOWN		
⊕	CONDUIT STUB UP		
⊕	FUSE		
⊕	GROUND/GROUND ROD		
⊕	CIRCUIT BREAKER		

ABBREVIATIONS			
A	AMPS	ENT	ELEC. NON-METAL TUBING
AFC	AVAILABLE FAULT CURRENT	ER	EXISTING TO BE RELOCATED
AF	ABOVE FINISHED FLOOR	EX	EXISTING TO REMAIN
AFG	ABOVE FINISHED GRADE	FM	FLEXIBLE METAL CONDUIT
AIC	AMPS INTERR. CAPACITY	GC	GENERAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE	GC	GEND. ELEC. COND. AT SES R
BC	BARE COPPER	GFC	GRND. FLT. CORR. INTERR.
BFC	BELOW FINISHED CEILING	GRND	GROUND
BFG	BELOW FINISHED GRADE	IMC	INTER. METAL CONDUIT
C	CONDUIT	IG	ISOLATED GROUND
CND	CONDUIT	KCMIL	1000 CIRCULAR MILS (MCM)
CO	CONDUIT ONLY	LFMC	LIQUID-TIGHT FLEX.
CT	CURRENT TRANSDUCER	METAL	METAL CONDUIT
CU	COPPER MATERIAL	LFNC	LIQUID-TIGHT FLEX. NON-METAL COND.
DED	DEDICATED	MC	MECHANICAL CONTRACTOR
DFA	DROP FROM ABOVE	ME	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN	N1	NEMA 1
EM	EMER./EGRESS BATTERY	N3R	NEMA 3R
EMT	ELEC. METALLIC TUBING	N	NEW
		NL	NIGHT LIGHT, BYPASS LOCAL SWITCHING
		PC	PLUMBING CONTRACTOR
		POC	POINT OF CONNECTION
		POS	POINT OF SALE
		RELOCATE	RELOCATE
		RW	ROOF MOUNTED
		RMC	RIGID METALLIC CONDUIT
		RNC	RIGID NON-METALLIC COND.
		SBJ	SYSTEM BONDING JUMPER
		SCA	SHORT CIRCUIT AMPERES
		T	TRANSFORMER
		TC	TEMP. CONTROL CONTR.
		UG	UNDERGROUND
		UNO	UNLESS NOTED OTHERWISE
		VA	VOLT/AMPS
		VF	VERIFY IN FIELD
		WP	WEATHERPROOF/NEMA 3R
		XP	EXPLOSION PROOF
		XR	EXISTING TO BE REMOVED

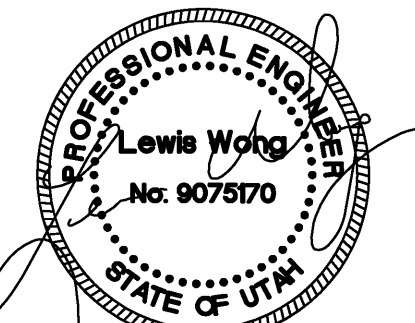
- NOTES:**
- (1) SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.
 - (2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.
 - (3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX
 - (4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST
 - (5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.
 - (6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS
 - (7) USE WITH POWER PACK.
 - (8) "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.
 - (9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM.
 - (10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.
 - (11) USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.
 - (12) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.
 - (13) USE HEAVY DUTY DEVICE FOR 480 VOLT.
 - (14) SIZE TO THE EQUIPMENT BEING CONTROLLED
 - (15) FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE CIRCUIT PANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL.
 - (16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

- GENERAL NOTES**
1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
 3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
 5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
 6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
 7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
 8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLES.
 9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
 10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
 11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
 12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
 13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
 14. MINIMUM SIZE CONDUIT SHALL BE 3/4" ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
 15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION ONLY. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
 16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
 17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
 18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
 19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILING, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
 20. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#(CU,THHN)+1#(2(CU,THHN)+2 IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
 21. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.
 22. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC., UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
 23. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
 24. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
 25. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
 26. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
 27. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILING. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.



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REVISIONS

VBFA PROJECT #: 17329
CHECKED BY: LW
DRAWN BY: EW
CURRENT/ISSUE DATE: JAN 2018

SHEET CONTENTS
ELECTRICAL GENERAL

EG001

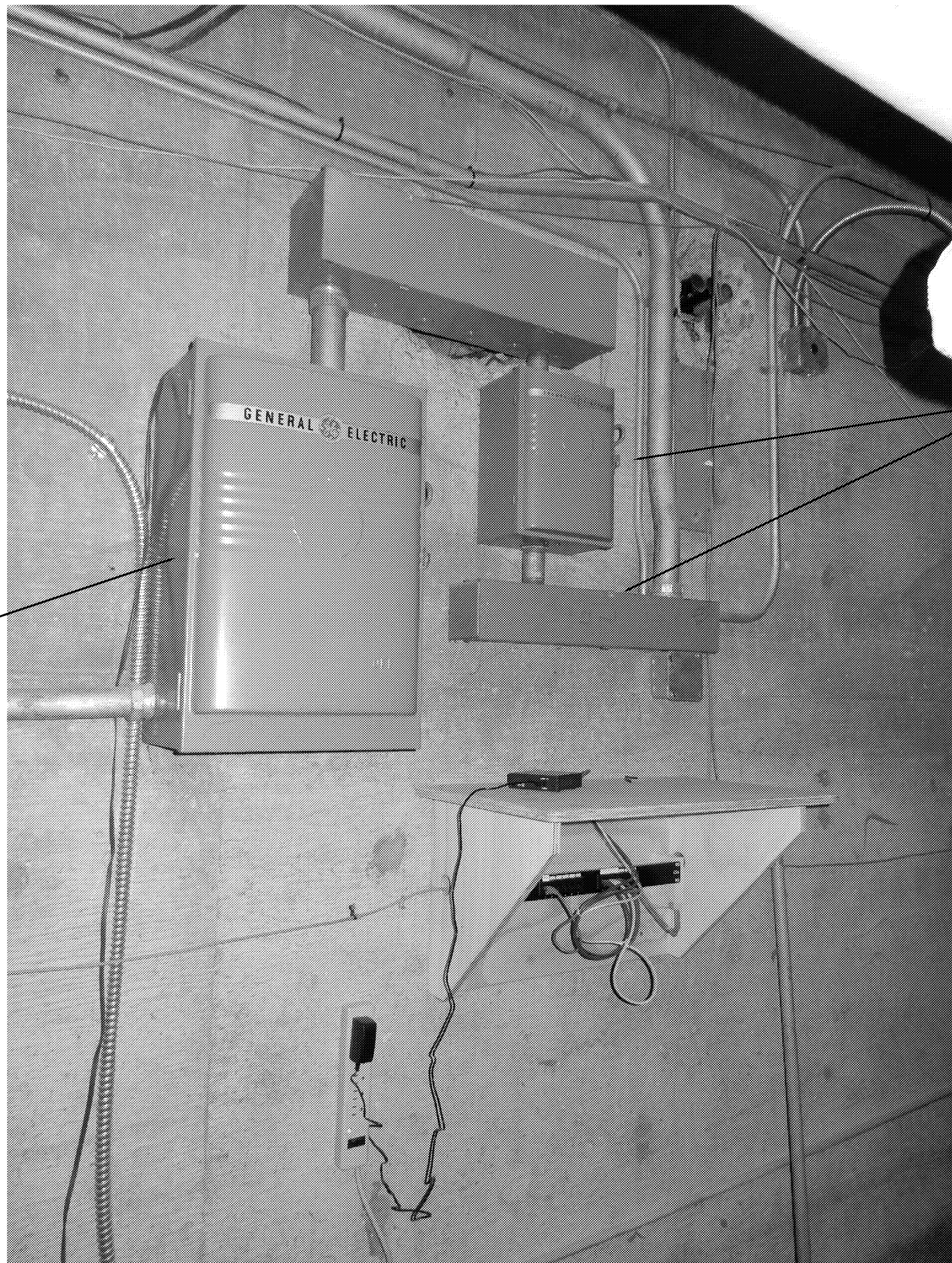
EQUIPMENT SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL								OVER CURRENT PROTECTION				STR	REMARKS
		VIPH	LOAD	FLA	WIRE				COND SIZE	OCPD/MOCP	TYPE	DISC SIZE/PL	FUSE SIZE		
					SETS	QTY	SIZE	GND							
AH-12	AIR HANDLER	208/3	3 HP	11.0	1	3	12	12	3/4"	20	C1	-	-	-	13A
CU-12A	CONDENSING UNIT	208/3	34.3 MCA	27.4	1	3	8	10	3/4"	50	C1	60/3	50	-	9A
CU-12B	CONDENSING UNIT	208/3	34.3 MCA	27.4	1	3	8	10	3/4"	50	C1	60/3	50	-	9A

ABBREVIATIONS:
VIPH = VOLTAGE/PHASE KVA = KILOVOLT AMPERES GND = GROUND COND = CONDUIT
KW = KILOWATTS VA = VOLT AMPERES DISC = DISCONNECT OCPD = OVERCURRENT PROTECTIVE DEVICE
W = WATTS MCA = MINIMUM CIRCUIT AMPACITY STR = STARTER PL = POLE
HP = HORSEPOWER FLA = FULL LOAD AMPERES MOCP = MAXIMUM OCPD (LISTED BY THE MANUFACTURER)

REMARKS:
1. NEMA 1 FUSED DISCONNECT SWITCH
2. NEMA 1 NON-FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MANUAL MOTOR CONTROLLER W/OUT THERMAL OVERLOAD
6. MAGNETIC STARTER
7. MAGNETIC STR/NON-FUSED DISCONNECT COMBINATION
8. MAGNETIC STR/FUSED DISCONNECT COMBINATION
9. NEMA 3R FUSED DISCONNECT SWITCH
10. NEMA 3R NON-FUSED DISCONNECT SWITCH
11. VARIABLE FREQUENCY DRIVE
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. DIRECT CONNECTION
14. DUCT DETECTOR IN RETURN AIR DUCT
15. CONTROLLED WITH LIGHTS
16. LM-EB DISCONNECT W/CNTRL WIRING TO VFD

GENERAL NOTE: THE EC SHALL COORDINATE ALL REQUIREMENTS (IE: MOCP SIZE, UNIT THERMAL PROTECTION, ETC) WITH APPROVED MECHANICAL SHOP DRAWINGS/
SUBMITTALS AND BRING UP ANY DISCREPANCIES WITH THE ELECTRICAL ENGINEER OF RECORD IN WRITING PRIOR TO ROUGH-IN.



EXISTING 200 AMP FUSED DISCONNECT TO BE REPLACED WITH PANELBOARD

EXISTING FUSED DISCONNECT AND CUTTER TO BE REMOVED

1 PHOTO ELEVATION OF DISCONNECT BANK
NO SCALE

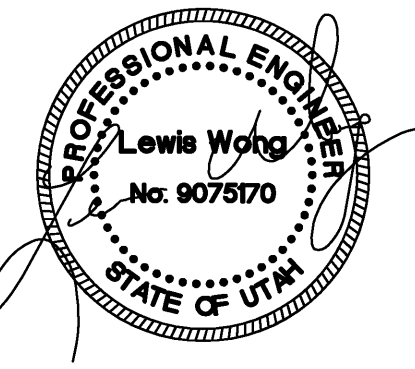
PANEL	CHB	VOLTAGE	208Y/120	MOUNTING		FEED			200 AMP	DIMS.	SPECIAL EQUIPMENT			
				FLUSH	X	TOP	X	TOP				LUGS	W	
TYPE	NQOD	PHASE	3	WIRES	4	FLUSH	X	TOP	X	LUGS	5.75" D			
LOCATION	CHAPEL MECH	AIC	10K	AMPS	X	SURFACE	BOTTOM	BREAKER	35" H					
CIR NO.	CIRCUIT DESCRIPTION	CODE	BRKR P	WIRE AMP	CIRCUIT LOAD	COMBINED PHASES			CIRCUIT LOAD	WIRE SIZE	BRKR AMP	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	AIR HANDLER AH-12		3	20	12	1320	1320			60	3		EXISTING	2
3			-	-	12	1320				-	-			4
5			-	-	12	1320				-	-			6
7	CONDENSING UNIT CU-12A		3	50	8	3295	3475		180	20	1		EXTERIOR OUTLET	8
9			-	-	8	3295				30	1		SPARE	10
11			-	-	8	3295				20	1		SPARE	12
13	CONDENSING UNIT CU-12B		3	50	8	3295	3295			25	1		SPARE	14
15			-	-	8	3295				20	1		SPARE	16
17			-	-	8	3295				20	1		SPARE	18
19	SPACE					0				20	1		SPARE	20
21	SPACE					0				20	1		SPARE	22
23	SPACE					0				20	1		SPARE	24
25	SPACE					0				20	1		SPARE	26
27	SPACE					0				20	1		SPARE	28
29	SPACE					0				20	1		SPARE	30
31	SPACE					0				20	1		SPARE	32
33	SPACE					0				20	1		SPARE	34
35	SPACE					0							SPACE	36
37	SPACE					0							SPACE	38
39	SPACE					0							SPACE	40
41	SPACE					0							SPACE	42

VA 8090 7910 7910 24 KVA 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
DIV 8090 7910 7910 AV. AMPS 2 = SHUNT-TRIP BREAKER 5 = GFCI BREAKER
AMPS 67 66 66 66 A 3 = SUBFEED BREAKER 6 = GFEP BREAKER
4 = PROVIDE LOCK OFF DEVICE
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C



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ELECTRICAL SCHEDULES

EG601

1

2

3

4

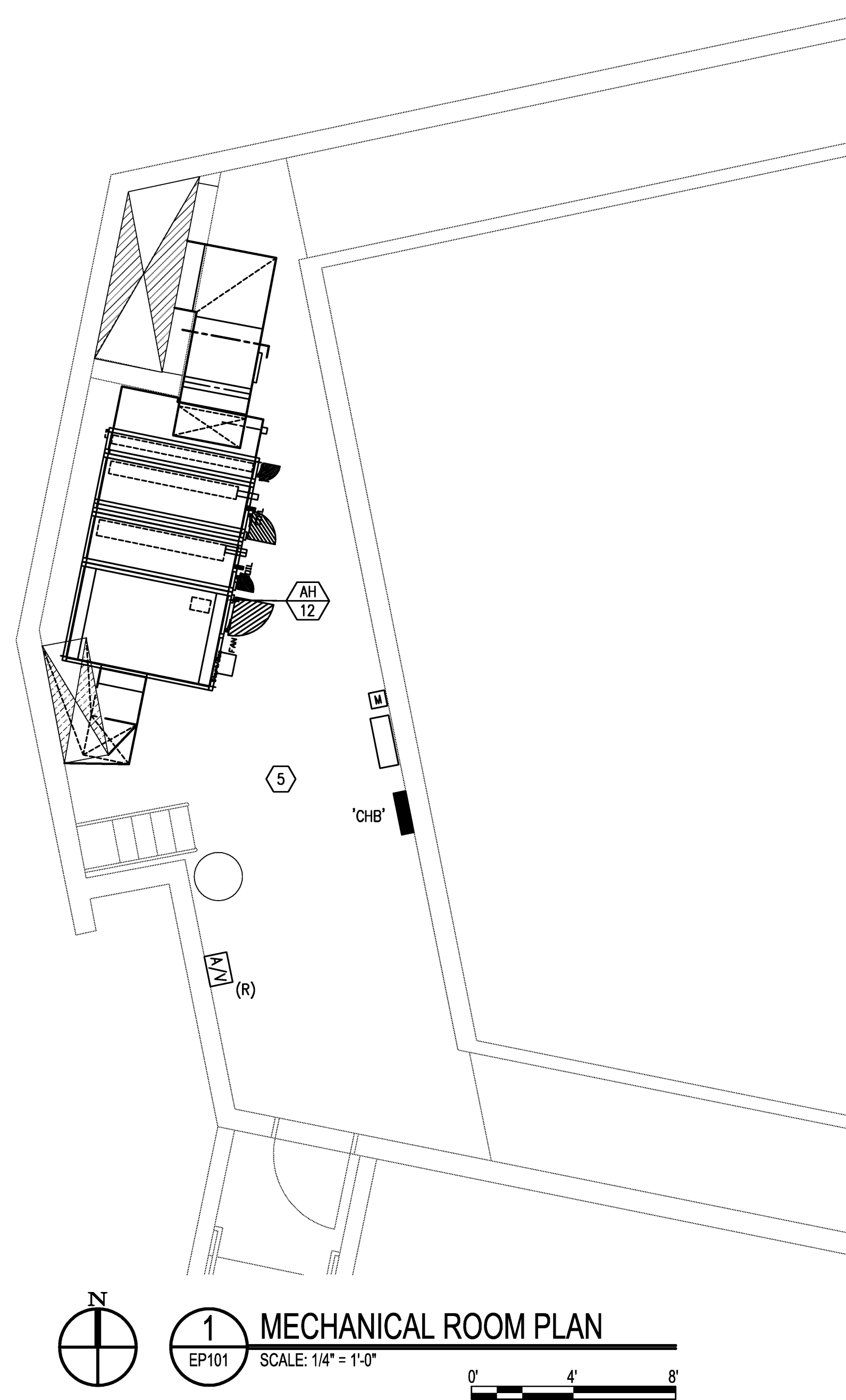
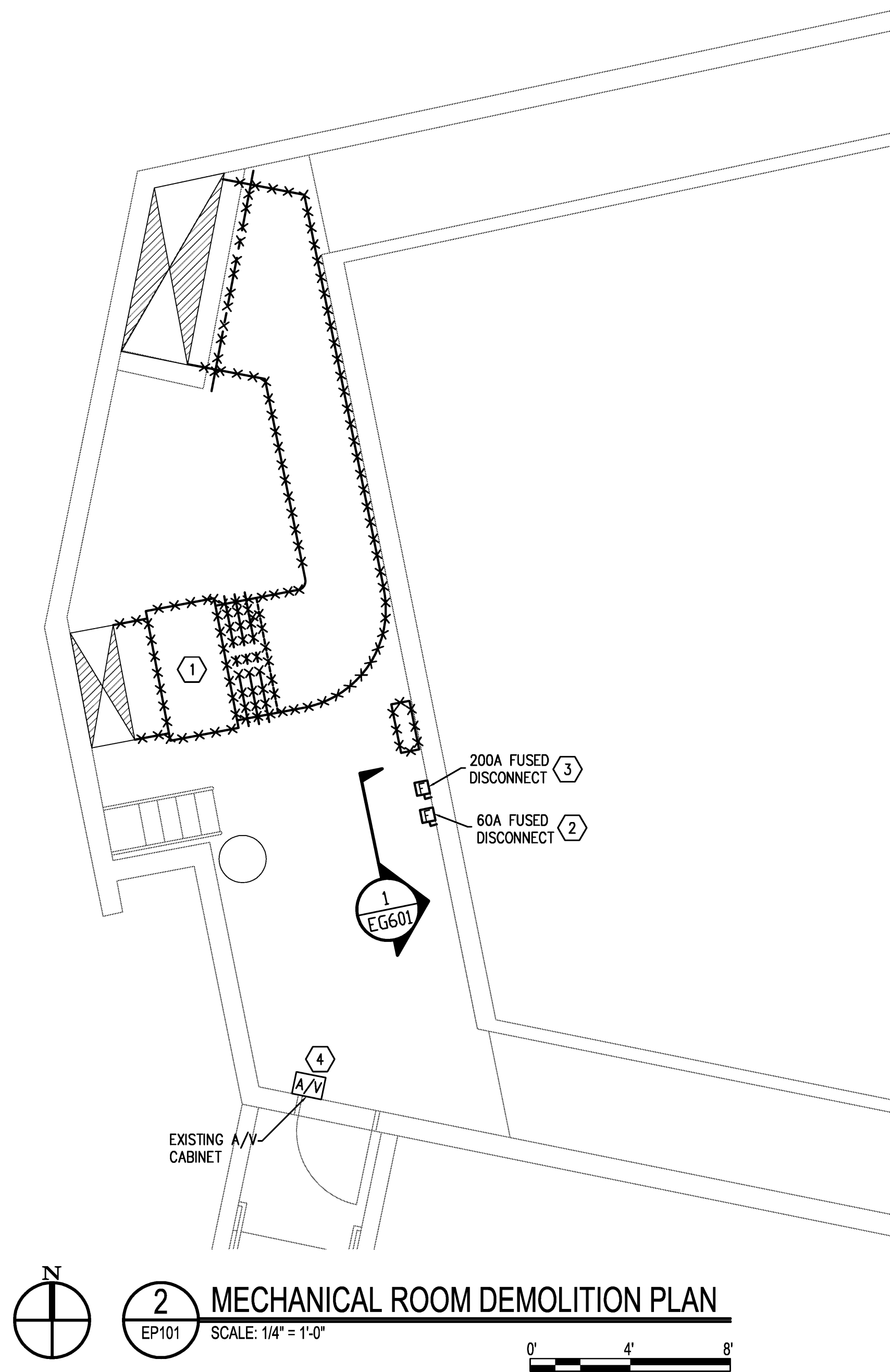
5

D

C

B

A



KEYED NOTES

- EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REMOVE CONDUIT, WIRE, AND ASSOCIATED DISCONNECTS BACK TO NEAREST REMAINING DEVICE/EQUIPMENT. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES OR EQUIPMENT REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.
- REFEED EXISTING CIRCUITS FED FROM DISCONNECT TO NEW PANEL 'CHB'. REMOVE EXISTING DISCONNECT AND GUTTER RACEWAY AND EXTEND CONDUIT AND CONDUCTORS TO NEW PANEL.
- EXISTING DISCONNECT FEEDING THE EXISTING AIR HANDLER TO BE REMOVED AND REPLACED WITH NEW 200 AMP PANELBOARD 'CHB'. REMOVE DOWNSTREAM GUTTER AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW PANEL. LAND EACH CIRCUIT ON A DEDICATED BREAKER. TRACE CIRCUIT AND PROVIDE BREAKER SIZE AS REQUIRED FOR EACH CIRCUIT.
- RELOCATE EXISTING A/V CABINET TO NEW LOCATION SHOWN. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. A/V CABLES SHALL BE CONTINUOUS. RERUN A/V CONDUCTORS AS NEEDED.
- PROVIDE NEW LED A21, 1700 LUMEN, 4000K LAMPS, EQUAL TO GREEN CREATIVE 17A21G4DM/840/R, FOR THE EXISTING CERAMIC BASE LIGHT SOCKETS IN THE SPACE. TROUBLESHOOT AND REPAIR LIGHTS AS NEEDED. FIELD VERIFY FOR QUANTITY.

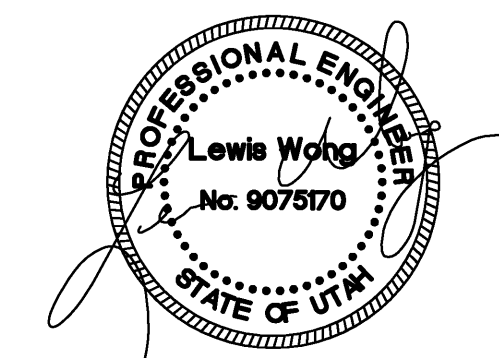
GENERAL NOTES

- EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
- CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK.
- ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS OF ITS CORRESPONDING PANEL WHERE IT IS INSTALLED.



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DEMOLITION AND POWER PLAN

EP101

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4

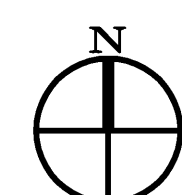
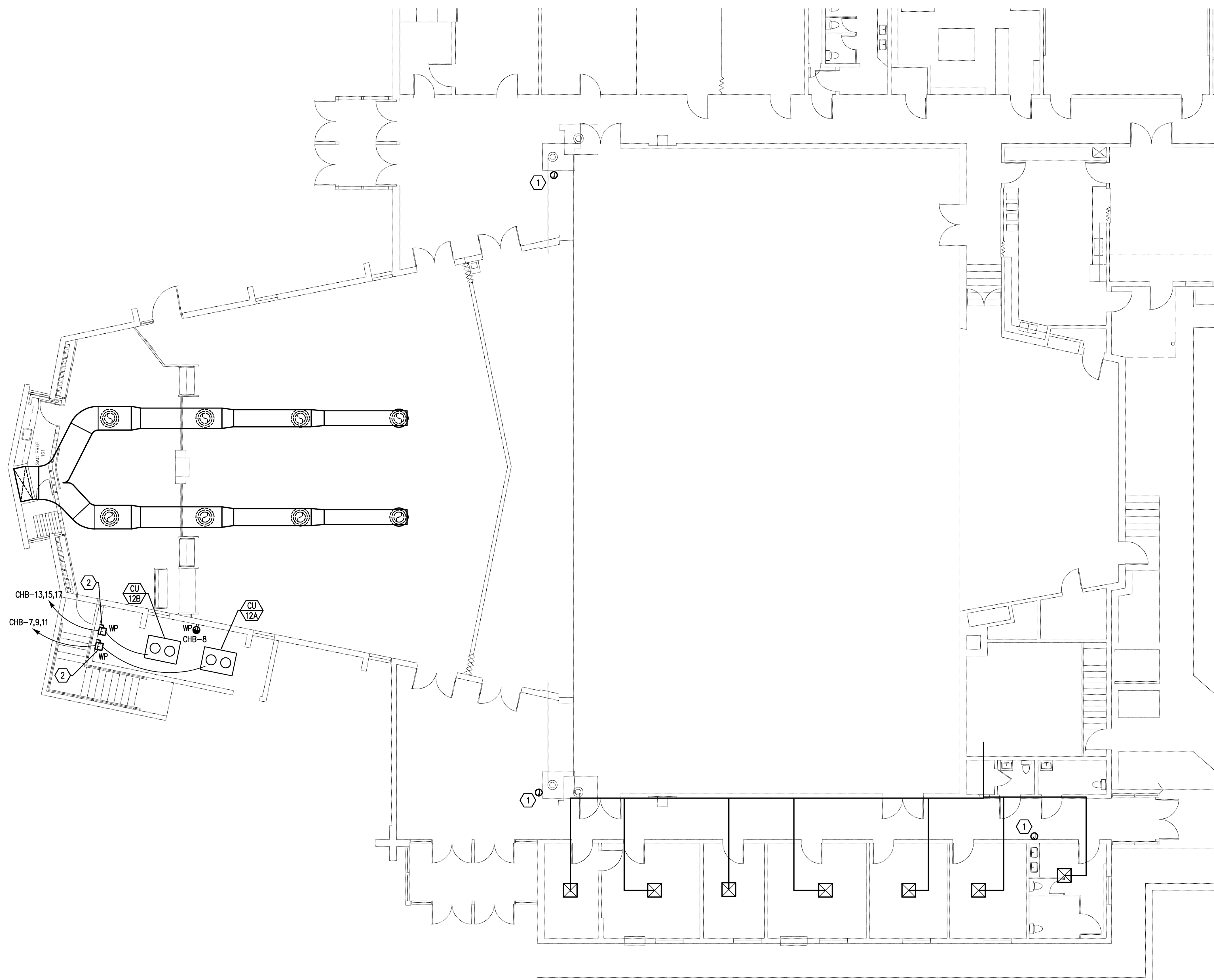
5

D

C

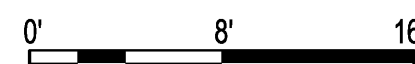
B

A



1
EP102

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



KEYED NOTES

1. PROVIDE 120V POWER IN CRAWL SPACE TO POWER ELECTRIC THERMOSTAT.
2. LOCATE FUSED DISCONNECTS TO MEET NEC CLEARANCE REQUIREMENTS.

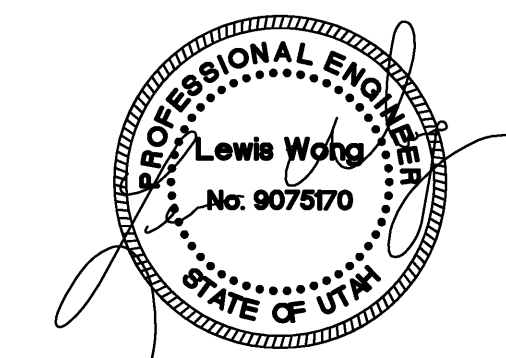
GENERAL NOTES

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- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
- F. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- G. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- H. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR PANELS AFFECTED BY THE SCOPE OF THIS WORK.
- I. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS OF ITS CORRESPONDING PANEL WHERE IT IS INSTALLED.



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CHAPEL POWER PLAN

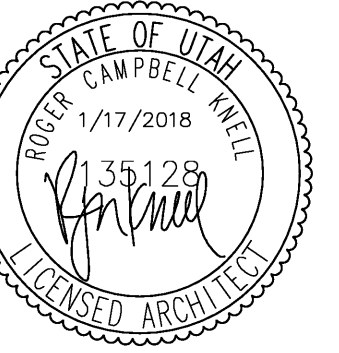
EP102



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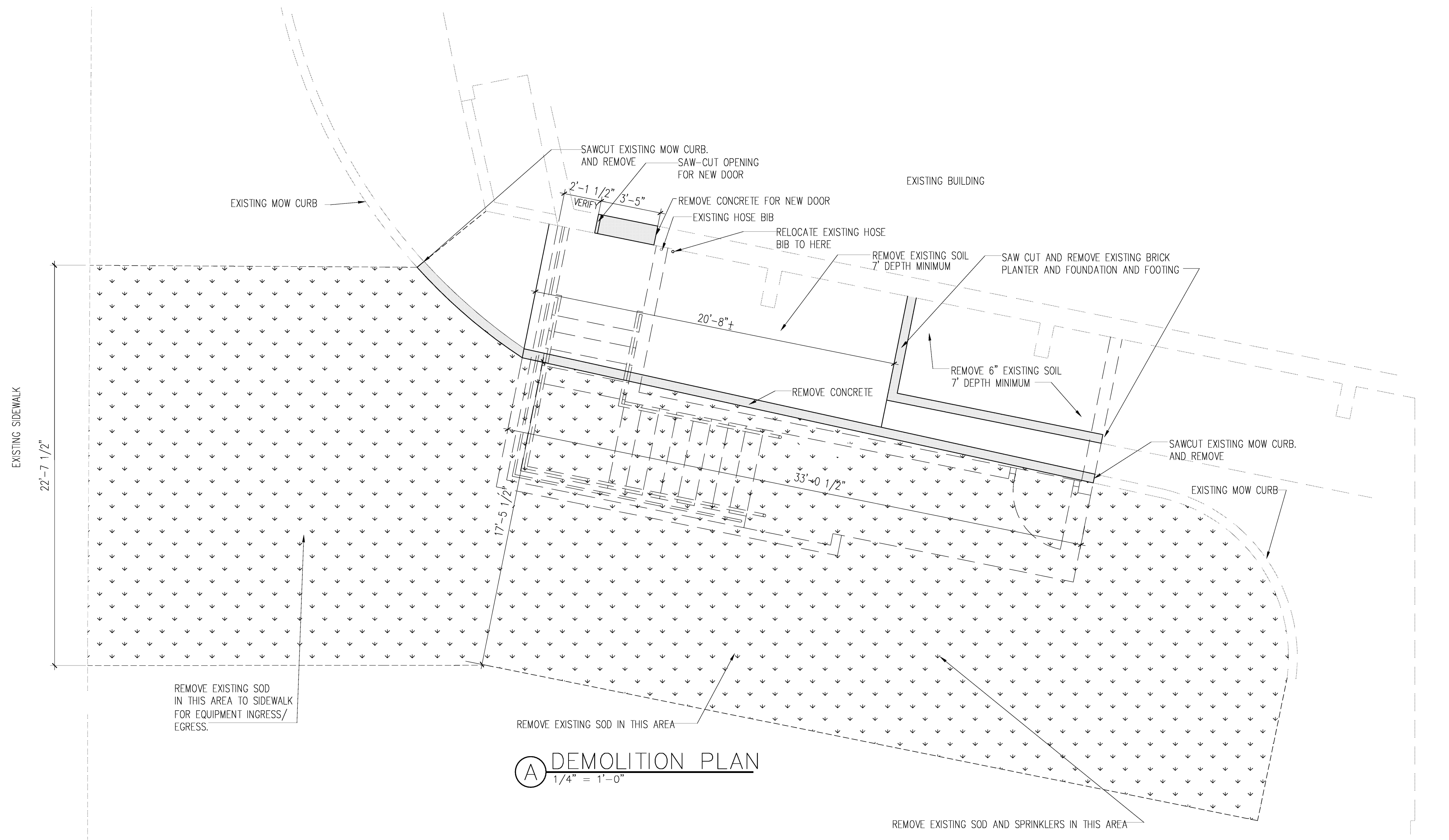
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SHEET CONTENTS

DEMOLITION
PLAN

D1.1



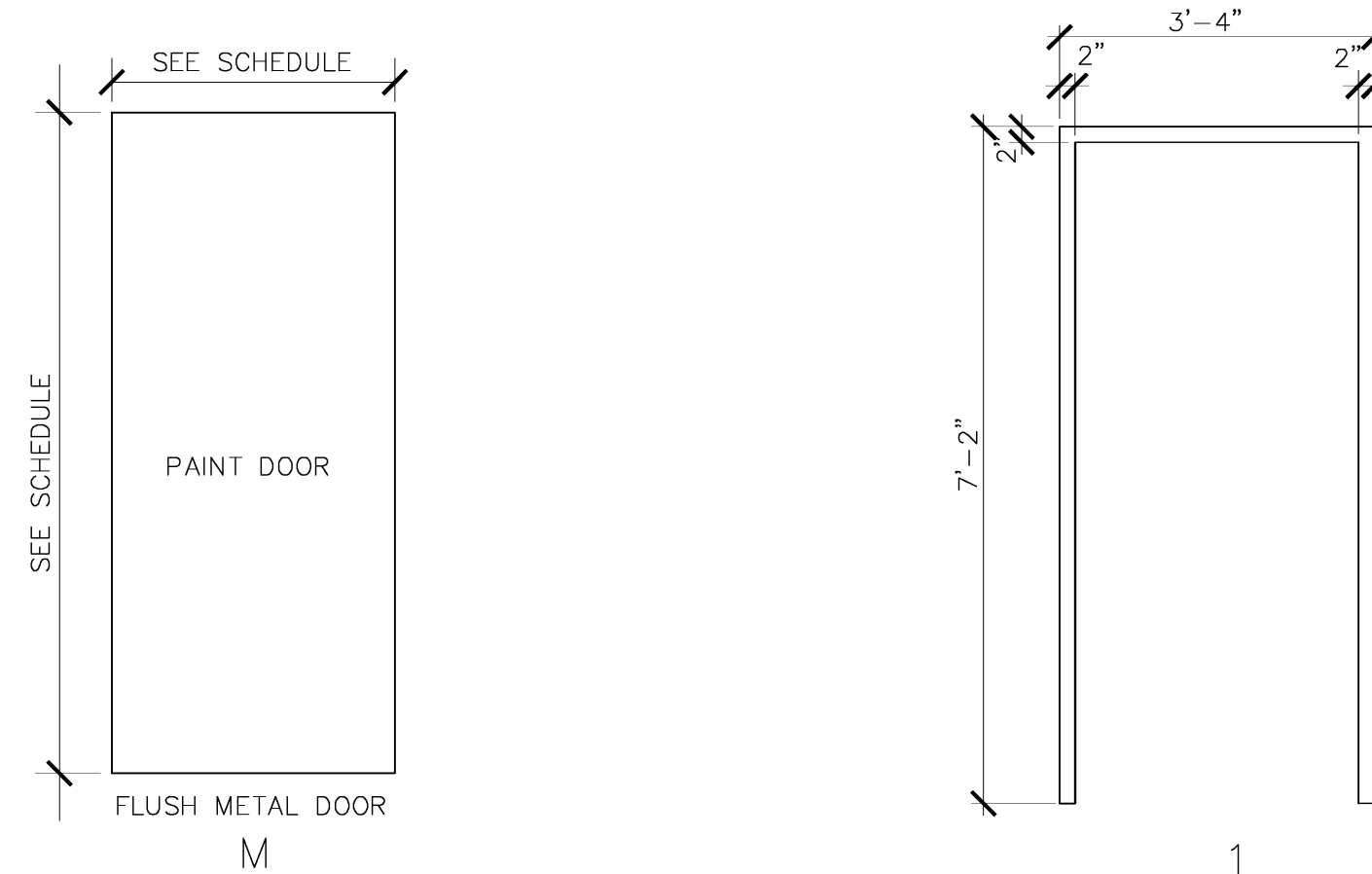
(A) DEMOLITION PLAN
1/4" = 1'-0"

- AREA OF NEW IMPROVEMENTS
- CONCRETE TO BE REMOVED
- REMOVE EXISTING SOD

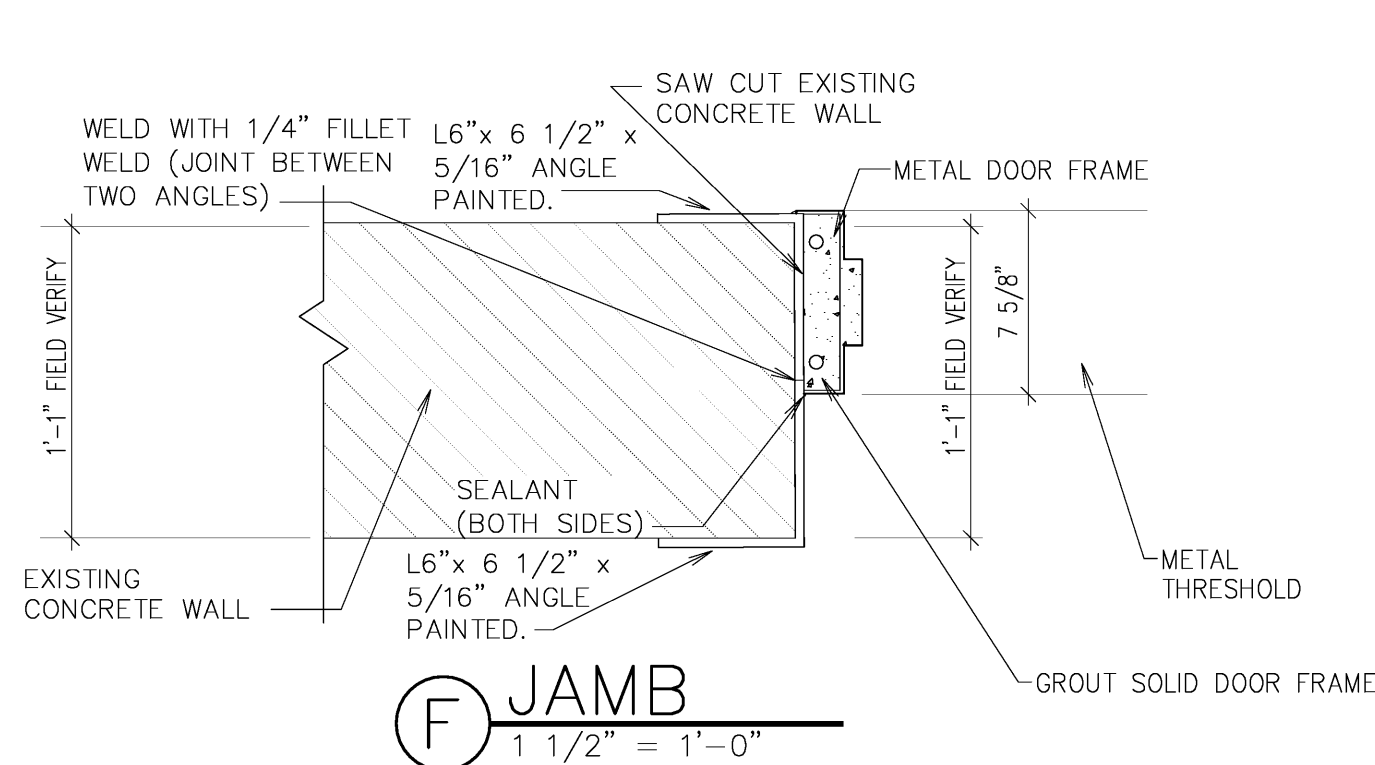
NOTE:
LOCATE EXISTING IRRIGATION MAIN LINE AND LATERALS
PRIOR TO DEMOLITION.

DOOR SCHEDULE													
MARK	DOOR				FRAME				HARDWARE GROUP	KEYING	FIRE RATING	REMARKS	
	ROOM	TYPE	PAIR	SIZE	GLASS	PROFILE	FRAME TYPE	HEAD					JAMB
100A	100	M	YES	S1		A	M	E/G1.2	F/G1.2	3		FR1.5	T1, FR1.5
DOOR TYPES													
S SIZE DESCRIPTION													
S1 3'-0" x 7'-0" x 1 3/4" NOTE: PROVIDE (2) CYLINDERS FOR GATE LOCK HARDWARE GROUP 4A													
T THRESHOLD													
T1 NEW METAL THRESHOLD													
FR FIRE RATING													
FR1.5 1 1/2 HR. FIRE RATING													

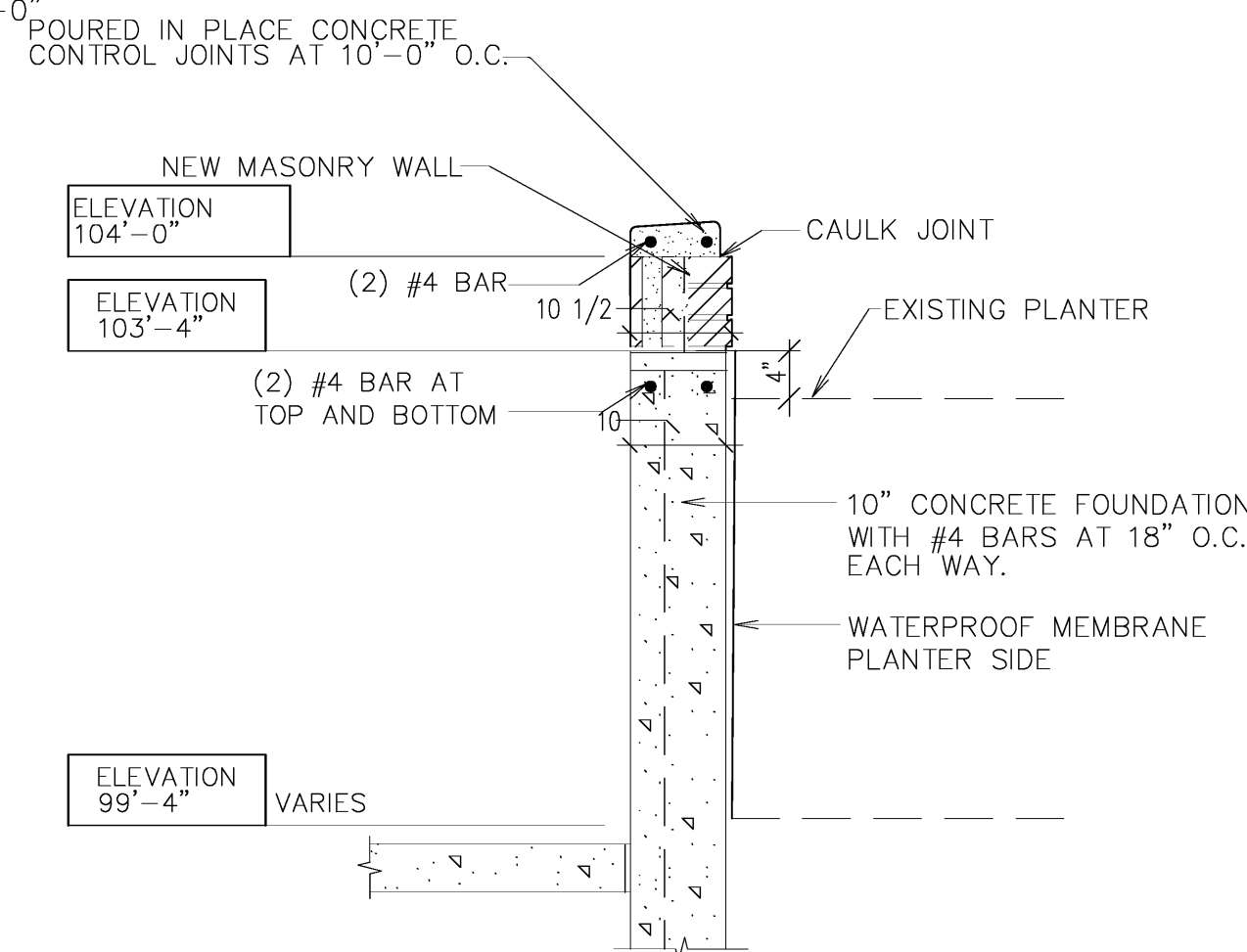
(B) STANDARD DOOR TYPES
1/2" = 1'-0"



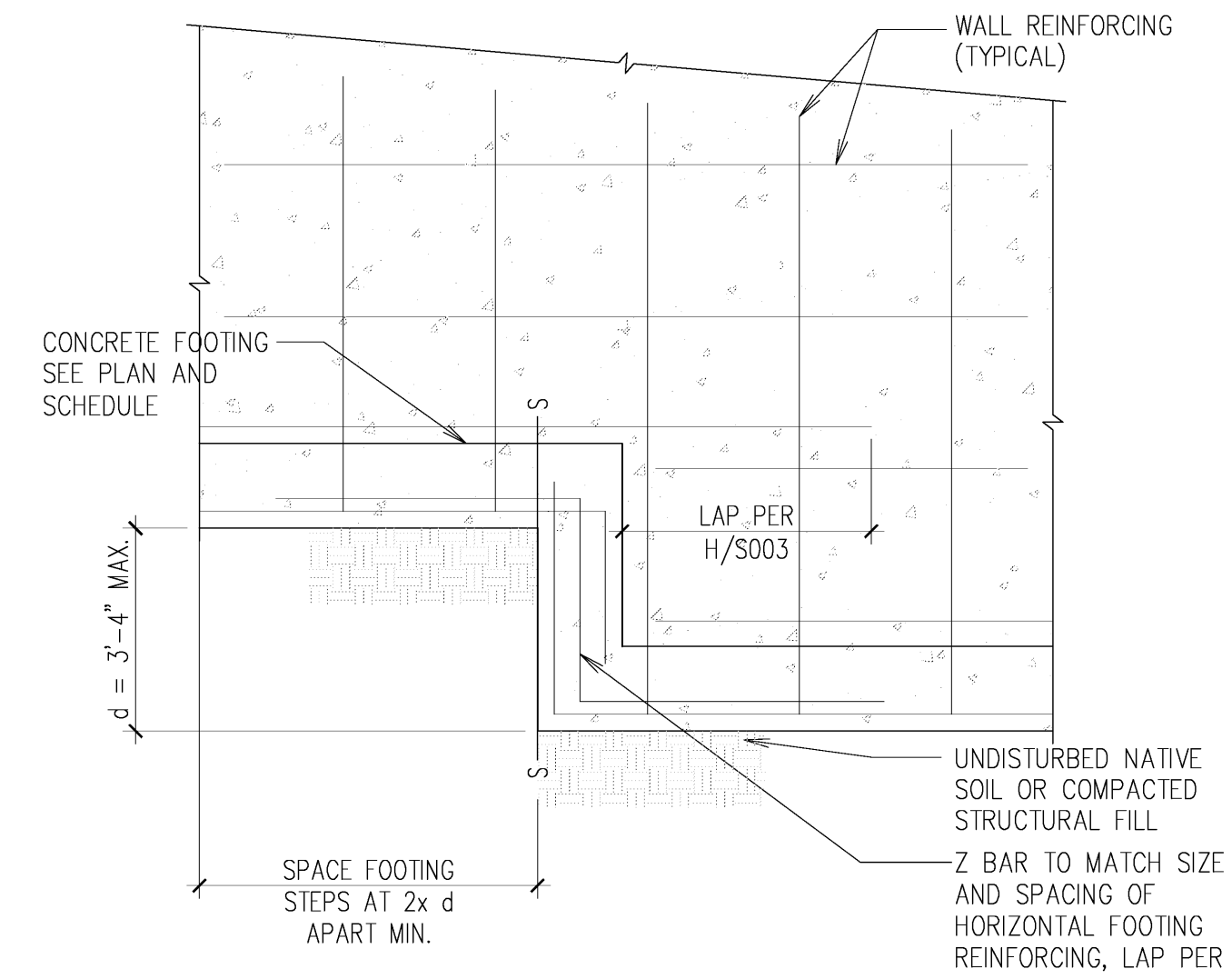
(C) FRAME TYPES
1/2" = 1'-0"



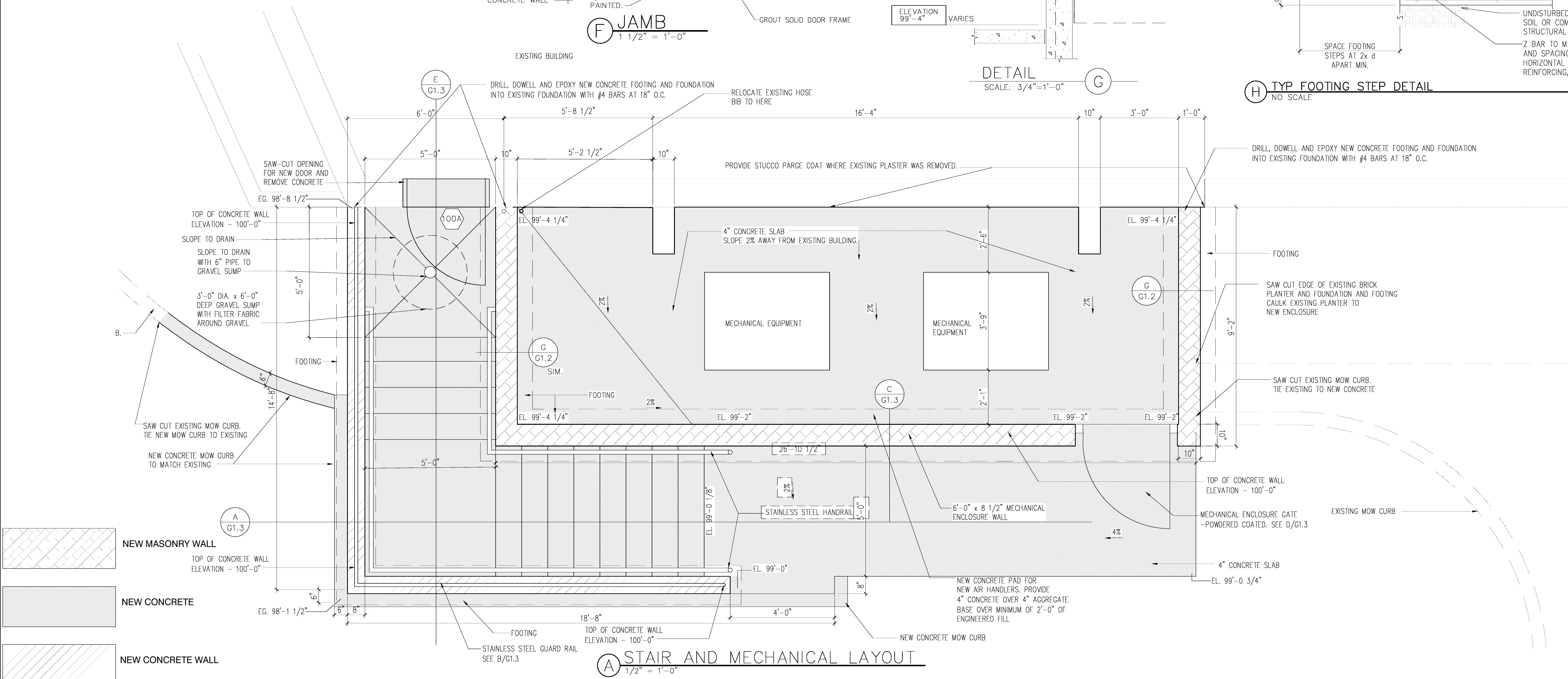
(F) JAMB
1 1/2" = 1'-0"



(G) DETAIL
SCALE: 3/4" = 1'-0"



(H) TYP FOOTING STEP DETAIL
NO SCALE



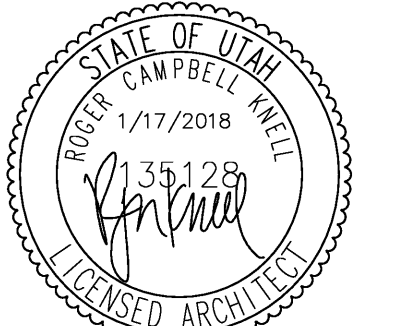
(A) STAIR AND MECHANICAL LAYOUT
1/2" = 1'-0"



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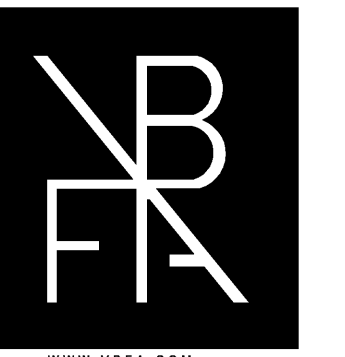
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STAIR LAYOUT AND DETAILS

G1.2

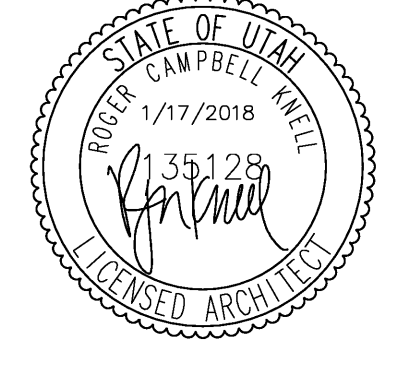
ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING



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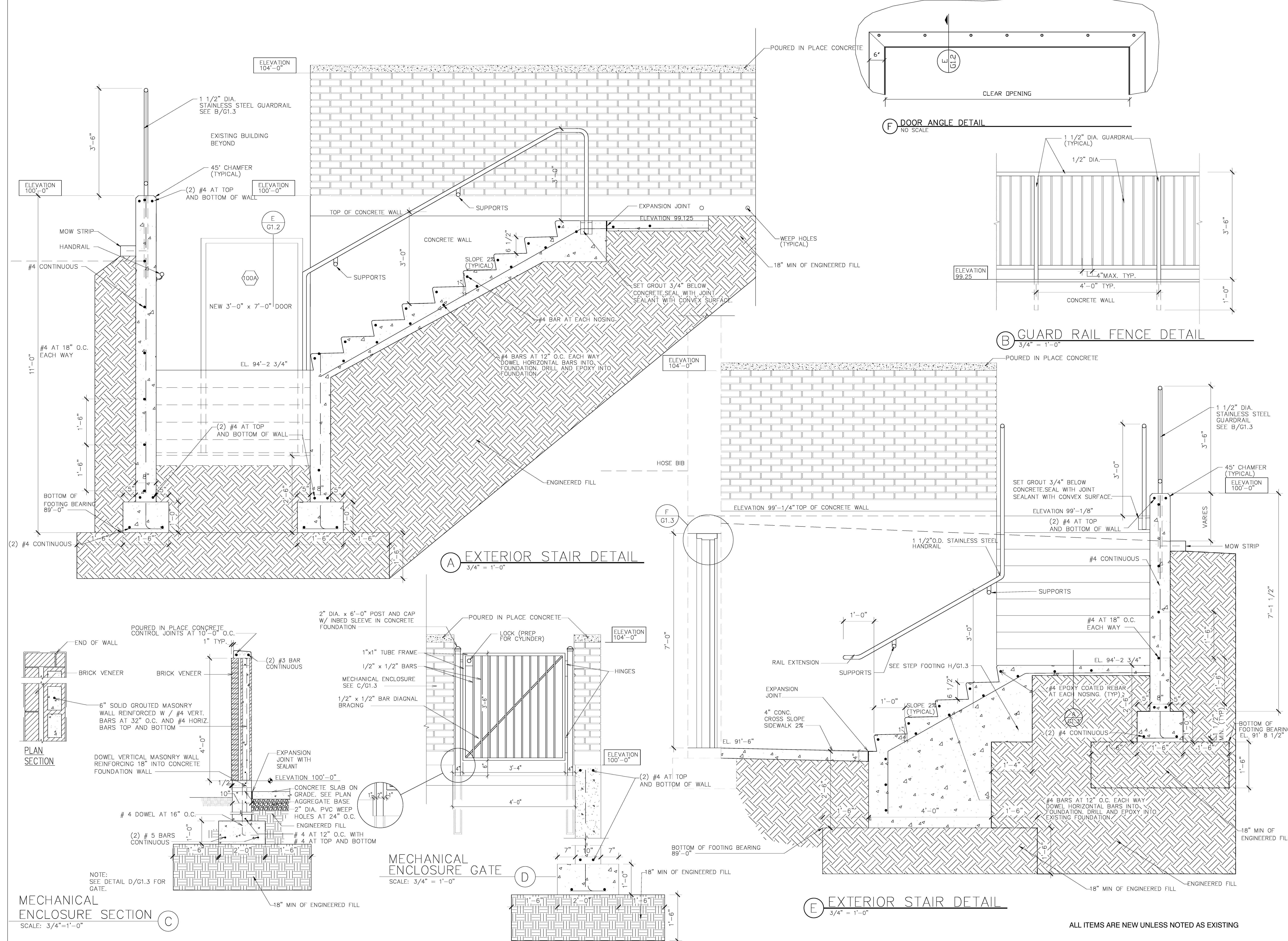
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NO.	DESCRIPTION	DATE

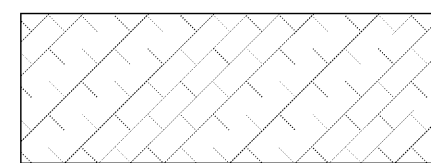
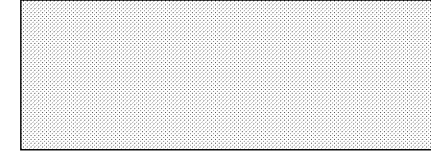
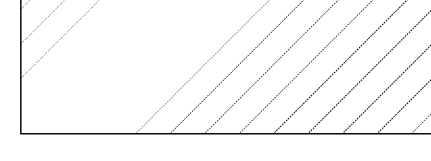

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STAIR LAYOUT AND STAIR DETAILS

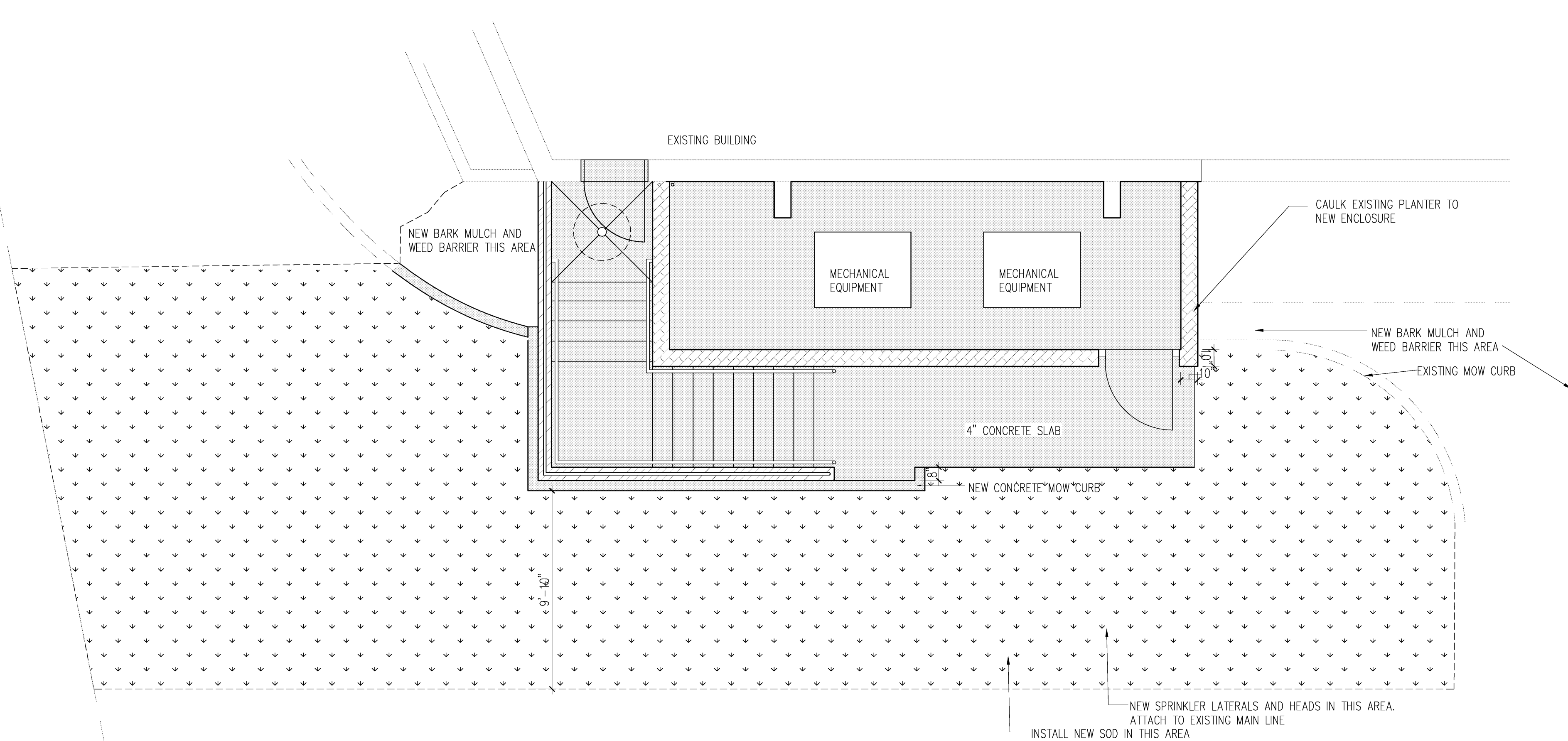
G1.3



ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

-  NEW MASONRY WALL
-  NEW CONCRETE
-  NEW CONCRETE WALL
-  NEW SOD, SPRINKLER HEADS AND LATERALS

- NOTE:
1. PROVIDE NEW 1" DIA. LATERAL LINE TO FEED NEW HEADS.
 2. LANDSCAPE CONTRACTOR TO PROVIDE NEW IRRIGATION PIPE AND HEADS. DESIGN LAYOUT ACCOMMODATE NEW CONSTRUCTION LAYOUT. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMPLISH THIS
 3. CONTRACTOR TO MAINTAIN WATER/LANDSCAPE DURING CONSTRUCTION
 4. LANDSCAPE CONTRACTOR TO PROVIDE 4" WOOD BARK MULCH AREAS AS NOTED.



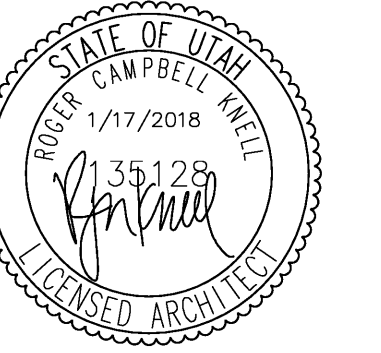
LANDSCAPE PLAN
1/4" = 1'-0"



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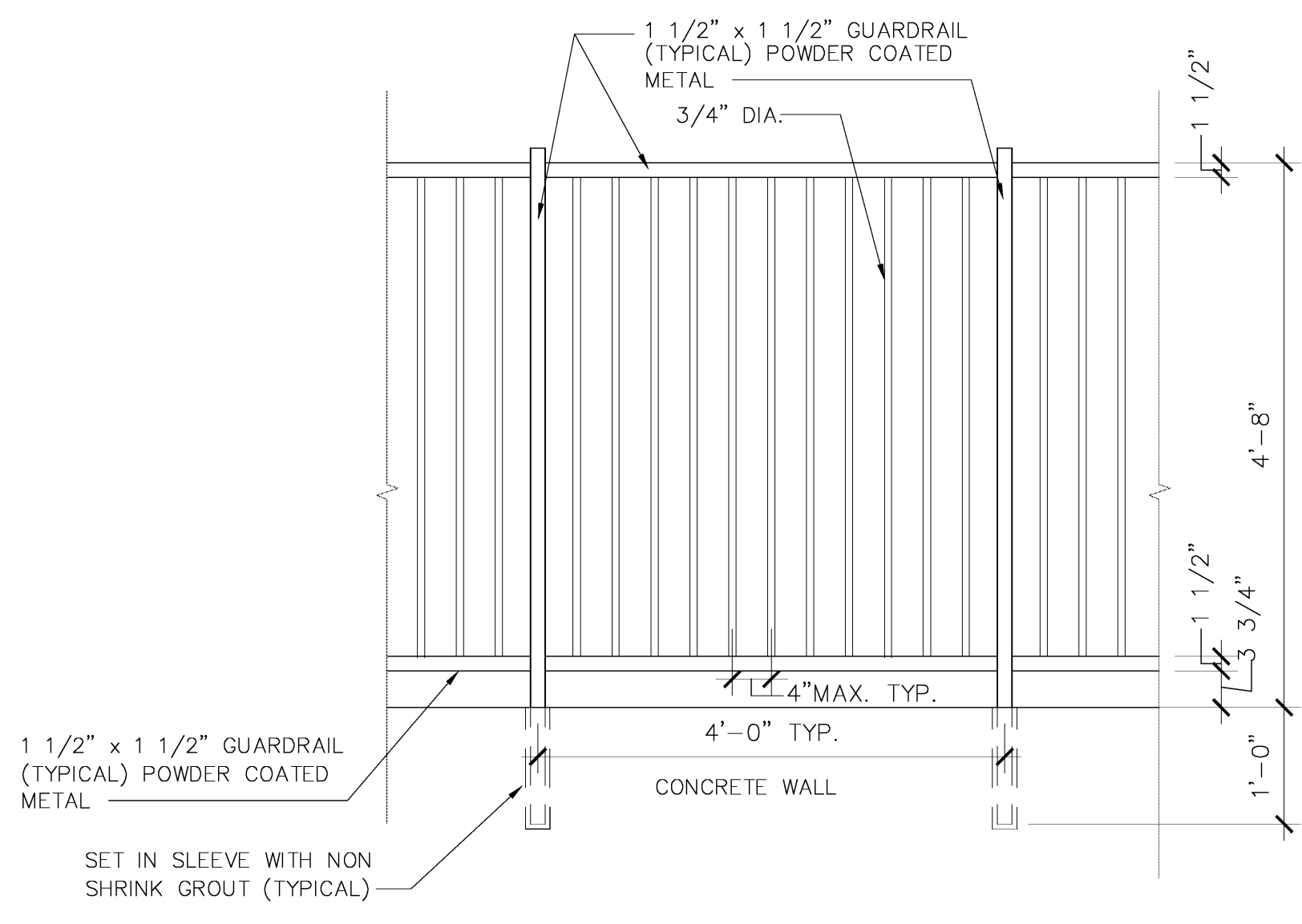
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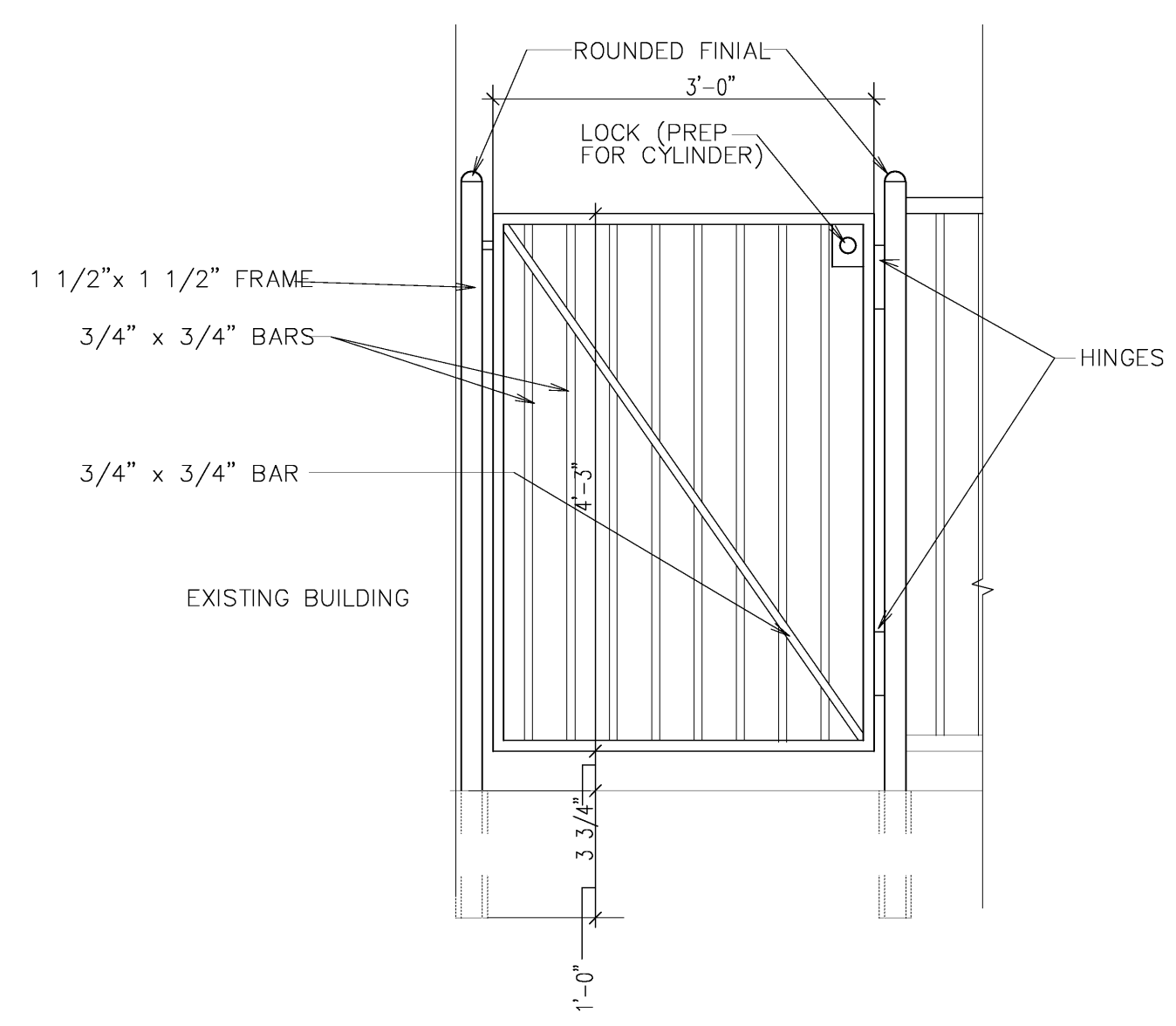
LANDSCAPE PLAN

G1.4

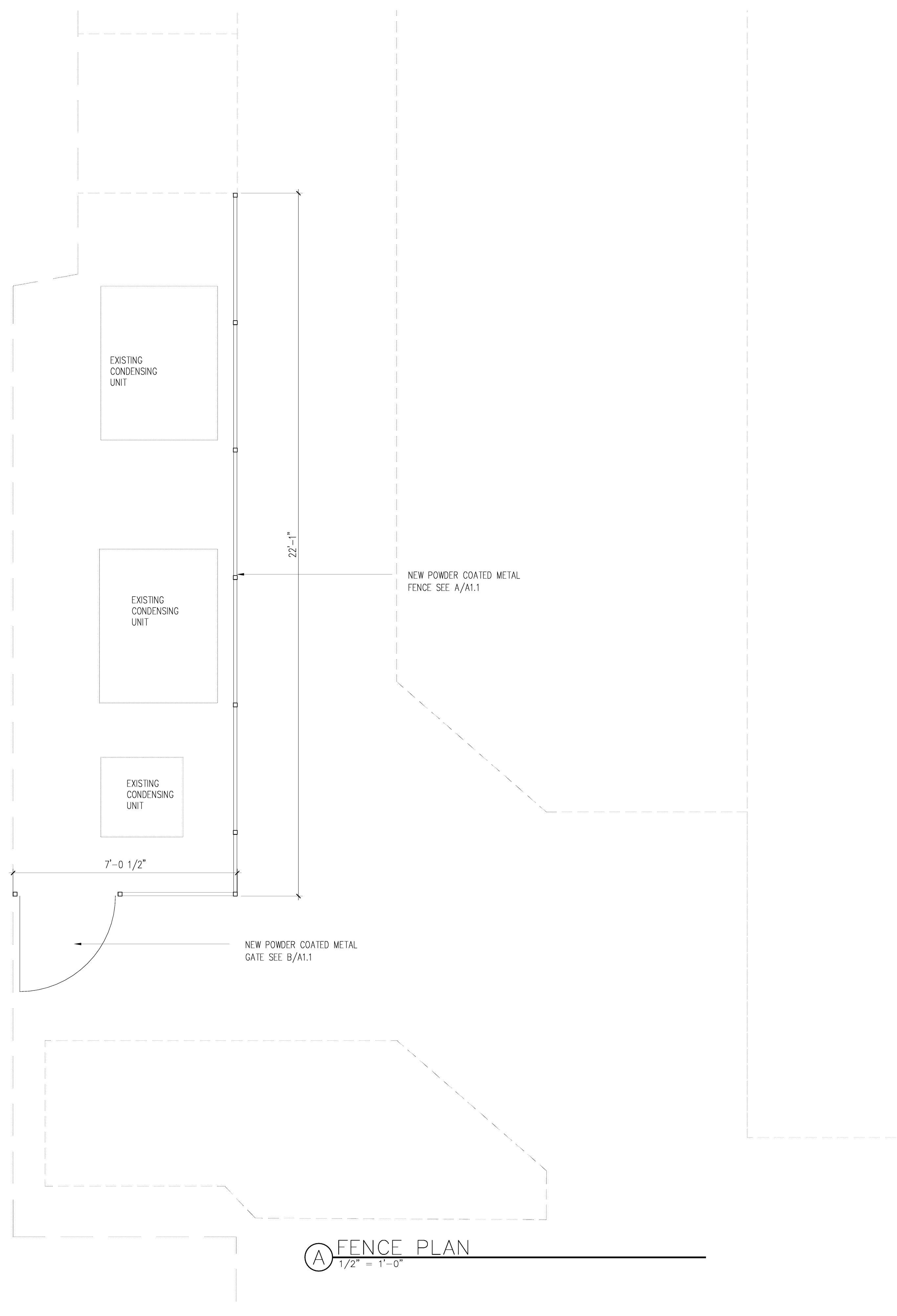
ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING



A FENCE DETAIL
3/4" = 1'-0"



B GATE DETAIL
3/4" = 1'-0"



A FENCE PLAN
1/2" = 1'-0"

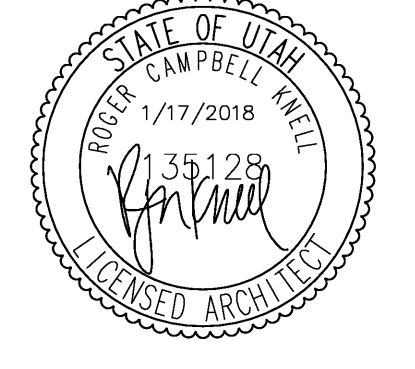
NOTE:
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PRIOR TO DEMOLITION.



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FENCE PLAN