

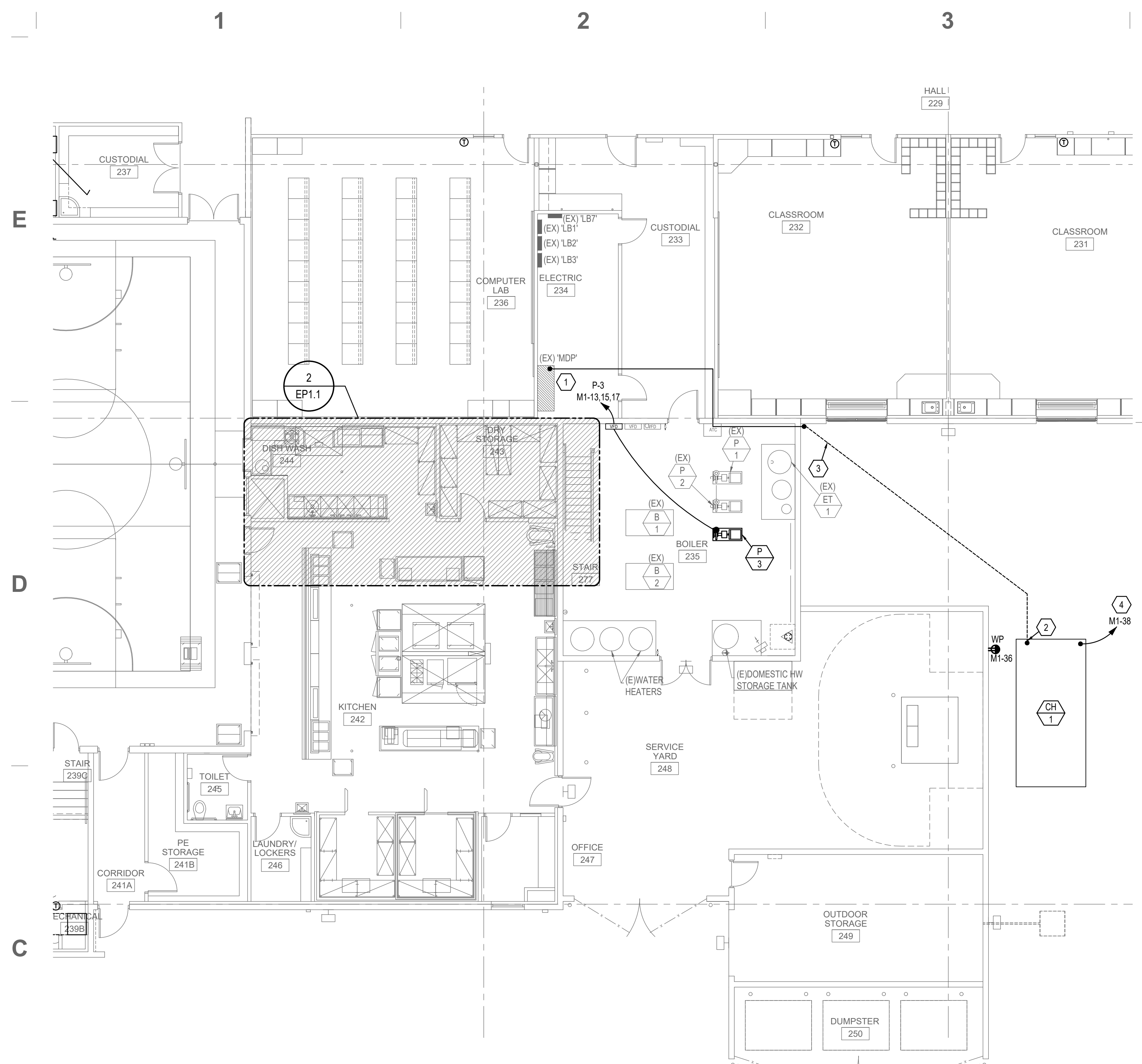
ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
	CONDUIT STUB		
	CONDUIT BREAK/CONTINUATION		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
	VARIABLE FREQUENCY DRIVE		
	FUSED DISCONNECT SWITCH		(13) (14)
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)

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	FMC	FLEXIBLE METAL CONDUIT
AIC	AMPS INTERR. CAPACITY	GC	GENERAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE	GEC	GRIND ELEC. COND. AT SES
BC	BARE COPPER	GFCI	GRIND FLT. CURR. INTERR.
BFC	BELOW FINISHED CEILING	GND	GROUND
BFG	BELOW FINISHED GRADE	IG	INTER. METAL CONDUIT
C	CONDUIT	IC	ISOLATED GROUND
CND	CONDUIT	KCMIL	1000 CIRCULAR MILS (MCM)
CO	CONDUIT ONLY	LQ	LIQUID-TIGHT FLEX.
CT	CURRENT TRANSDUCER	MCL	METAL COND.
CU	COPPER MATERIAL	LFNC	LIQUID-TIGHT FLEX.
DED	DEDICATED	LM	LIQUID-TIGHT FLEX.
DFA	DROP FROM ABOVE	MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS
EF	EXHAUST FAN	N1	NEMA 1
EM	EMER. EGRESS BATTERY	N3R	NEMA 3R
EMT	ELEC. METALLIC TUBING	N	NEW
		NR	NON-METAL TUBING
		PC	PLUMBING CONTRACTOR
		POC	POINT OF CONNECTION
		POS	POINT OF SALE
		R	RELOCATED
		RM	ROOF MOUNTED
		RMC	RIGID METALLIC CONDUIT
		RNC	RIGID NON-METALLIC COND.
		SBJ	SYSTEM BONDING JUMPER
		SCA	SHORT CIRCUIT AMPERES
		T	TRANSMITTER
		TC	TEMP. CONTR. CONTR.
		UNO	UNLESS NOTED OTHERWISE
		V	VOLTAGES
		VIF	VERIFY IN FIELD
		WP	WEATHERPROOF/NEMA 3R
		XP	EXPLOSION PROOF
		XR	EXISTING TO BE REMOVED

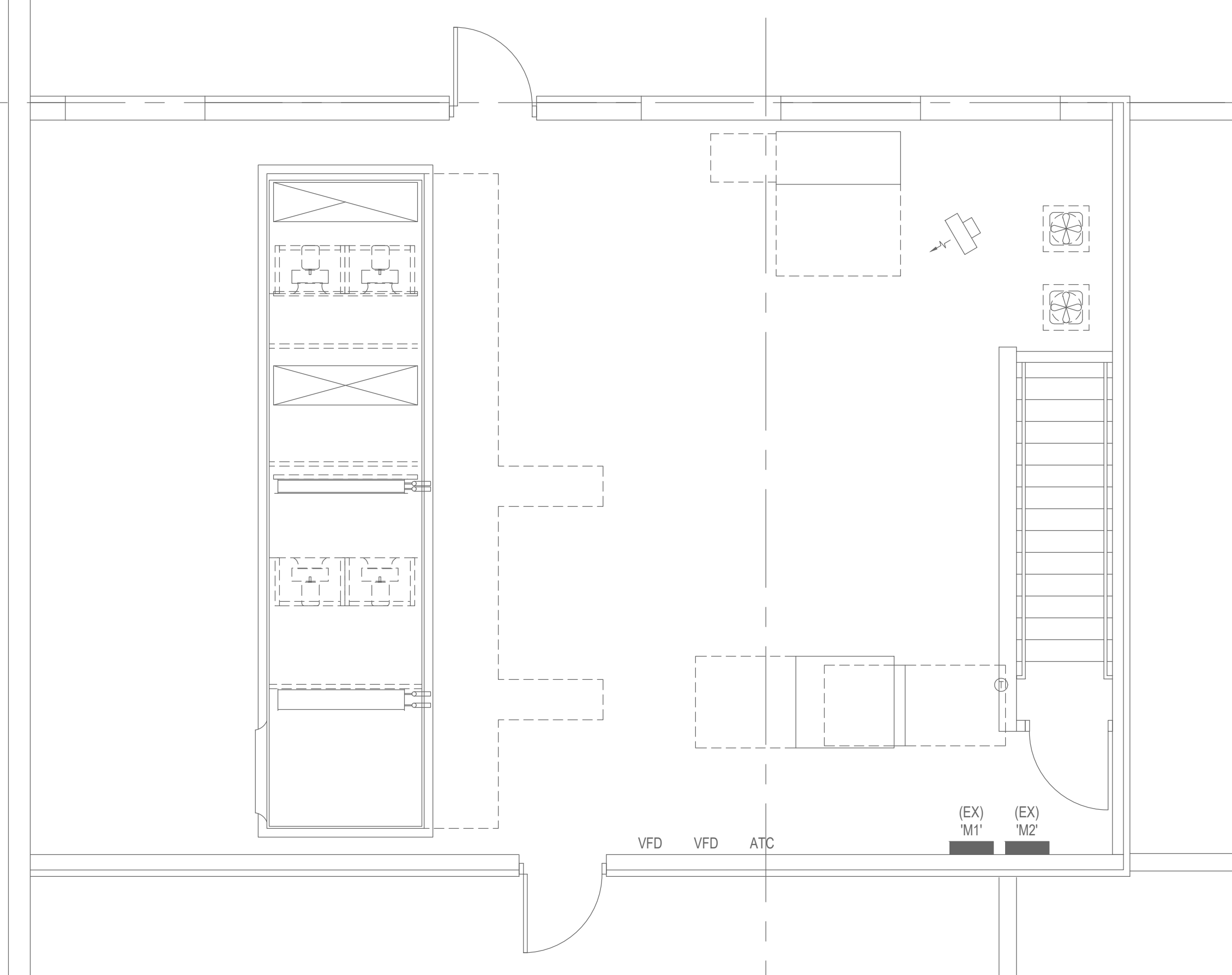
NOTES	
(1)	SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.
(2)	SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.
(3)	WIRE LIGHT FIXTURE FROM ADJACENT J-BOX.
(4)	CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST.
(5)	DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.
(6)	COORDINATE MOUNTING 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 4" X 4" BOX WITH A MUD RING TO MOUNT 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 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

- 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 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.
- 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.
- NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
- 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.
- 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.
- 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.
- 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 CABLING.
- 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.
- THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS, CABINETS, DISCONNECT TRANSFORMERS, ETC. AND SHALL MOVE THE PANELS/EQUIPMENT AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, 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.
- 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.
- THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
- 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.
- FLEXIBLE METAL CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT EXCEED 72" INCHES. USE LFMC IN DAMP OR WET LOCATIONS.
- 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.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
- BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, 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.
- WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277V AC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU) THHN/THWN-2#14(CU) THHN/THWN-2#16(CU) THHN/THWN-2#18(CU) THHN/THWN-2#20(CU) THHN/THWN-2#25(CU) THHN/THWN-2#35(CU) THHN/THWN-2#50(CU) THHN/THWN-2#75(CU) THHN/THWN-2#95(CU) THHN/THWN-2#125(CU) THHN/THWN-2#150(CU) THHN/THWN-2#200(CU) THHN/THWN-2#250(CU) THHN/THWN-2#300(CU) THHN/THWN-2#350(CU) THHN/THWN-2#400(CU) THHN/THWN-2#500(CU) THHN/THWN-2#600(CU) THHN/THWN-2#750(CU) THHN/THWN-2#900(CU) THHN/THWN-2#1100(CU) THHN/THWN-2#1300(CU) THHN/THWN-2#1500(CU) THHN/THWN-2#1750(CU) THHN/THWN-2#2000(CU) THHN/THWN-2#2500(CU) THHN/THWN-2#3000(CU) THHN/THWN-2#3500(CU) THHN/THWN-2#4000(CU) THHN/THWN-2#4500(CU) THHN/THWN-2#5000(CU) THHN/THWN-2#5500(CU) THHN/THWN-2#6000(CU) THHN/THWN-2#6500(CU) THHN/THWN-2#7000(CU) THHN/THWN-2#7500(CU) THHN/THWN-2#8000(CU) THHN/THWN-2#8500(CU) THHN/THWN-2#9000(CU) THHN/THWN-2#9500(CU) THHN/THWN-2#10000(CU) THHN/THWN-2#10500(CU) 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THHN/THWN-2#208500(CU) THHN/THWN-2#209000(CU) THHN/THWN-2#209500(CU) THHN/THWN-2#2



1 ELECTRICAL POWER PLAN
 EP1.1 SCALE: 1/8"=1'-0"



2 ENLARGED ELECTRICAL MEZZANINE PLAN (FOR REFERENCE ONLY)
 EP1.1 SCALE: 1/4"=1'-0"

KEYED NOTES

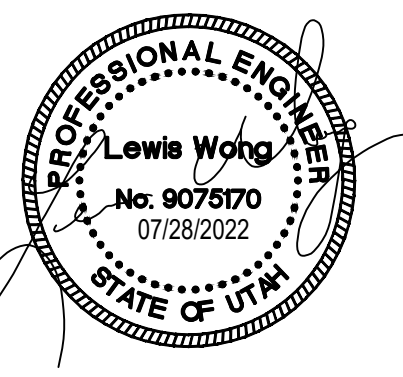
1. PROVIDE NEW 300A/3P CIRCUIT BREAKER WITHIN EXISTING MAIN DISTRIBUTION PANEL. NEW BREAKER SHALL MATCH EXISTING MDP AIC RATING. VERIFY IN FIELD.
2. ROUTE (3)50KCMIL & (1)1/2" IN 2-1/2" CONDUIT TO BE CONNECTED TO NEW 300A CIRCUIT BREAKER WITHIN EXISTING MAIN DISTRIBUTION PANEL. REFER TO EQUIPMENT SCHEDULE FOR MORE DETAIL.
3. APPROXIMATE CONDUIT ROUTING FOR NEW CHILLER 'C-1'. PROVIDE 'L' AT EXTERIOR WALL. REFER TO EQUIPMENT SCHEDULE FOR CONDUIT AND CONDUCTOR SIZING.
4. PROVIDE ADDITIONAL 120V/1PH/20A CIRCUIT FOR EQUIPMENT HEATERS AND CONTROLS. REFER TO EQUIPMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

- A. EG SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILING 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 IN FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. EXISTING DEVICES SHOWN ON 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. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.
- G. PROVIDE CLEAR, TYPED, P-TOUCH LABELS ON ALL NEW DEVICES/EQUIPMENT INDICATING THE PANEL AND CIRCUIT NUMBER. IT IS TIED TO LABEL SHALL BE 1/8" LONGER THAN TEXT ON BOTH ENDS.
- H. PROVIDE UPDATED TYPED CIRCUIT DIRECTORY WITH UNIQUE CIRCUIT DESCRIPTIONS PER NEC 408.4 FOR PANELS AFFECTED BY THIS PROJECT.
- I. ALL CORE DRILLING IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

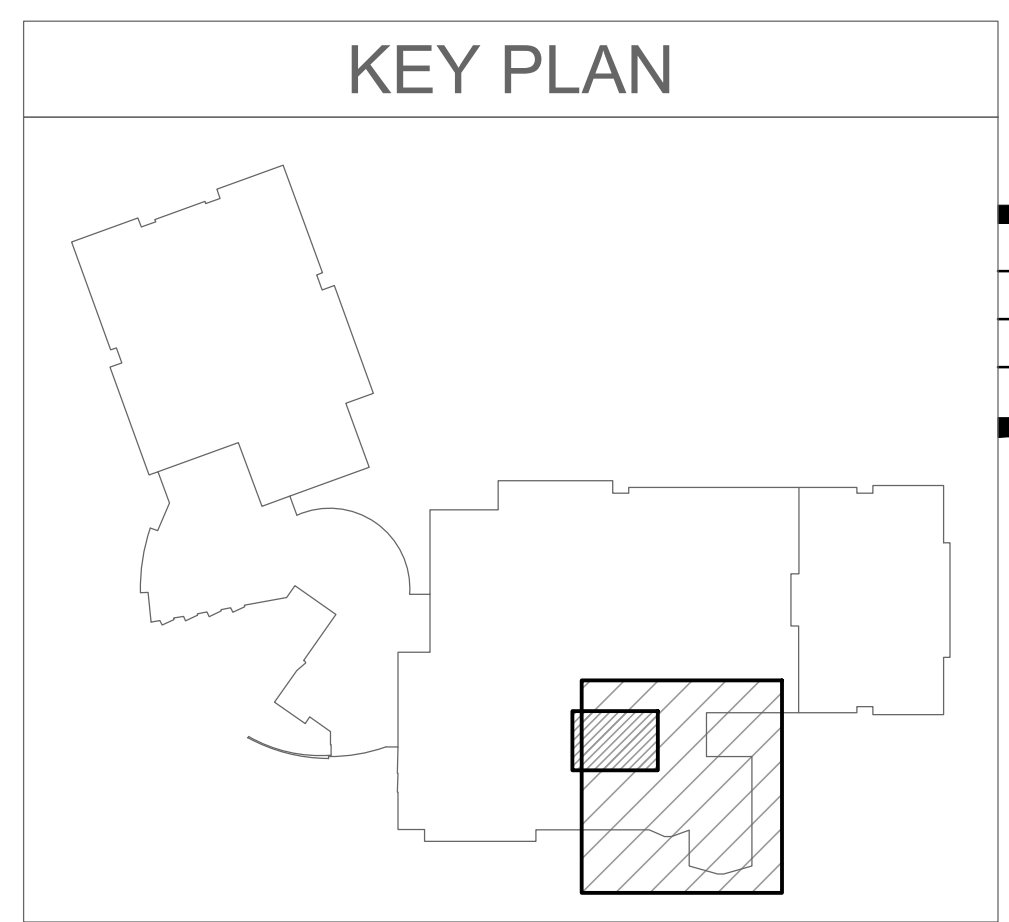


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Original drawings remain the property of the Engineer and as such the Engineer retains total ownership and control. The design represented by these drawings are sold to the client for a one time use, unless otherwise agreed upon in writing by the Engineer.
 • Van Boerum & Frank Assoc., 2021

**FIELDING ELEMENTARY SCHOOL
 COOLING UPGRADE**
 98 WEST MAIN STREET, FIELDING, UTAH 84311



REVISIONS

VBFA PROJECT #:	21493
CHECKED BY:	KC
DRAWN BY:	AC
CURRENT ISSUE DATE:	07.28.2022

SHEET CONTENTS
ELECTRICAL POWER PLAN

EP1.1