SHALL BE MADE COMPLETE AND OPERABLE. SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC. CORRECTED AT THE CONTRACTORS EXPENSE. EQUIPMENT IS BEING INSTALLED WITHIN. COMPLETE AND OPERABLE SYSTEM. LAND ALL NEW TELE/DATA CABLING. METHODS AND PRACTICES. CONTACT WITH THE SOIL. OR WET LOCATIONS. FXPFNSF

B

NA	ME:	(EX)M1												DIN			SI	PECIAL EQUIPME	NT	
			V	OLTA	GE:	208	120	MOUN	TING:		MA	INS:		20		100	X	GROUND BUS		
T١	PE:	NQ						FLU	ISH		BRE	AKER		5.75		_		SUB-FEED BREA	KER	
				PH 3	V	/IRES	4							68		H		SUB-FEED LUGS		
		ELEC ROOM						FEE	D:		225	AMPS						NEMA 3R		
		LOCATION		AIC 1	0K	AMP	S	BOT	TOM					42	SF	ACES		SURGE PROTEC	TOR	
DF	скт #	CIRCUIT DESC	RIPTION	COD		BRKR AMP		VA LOAD	P A	HASE V B	A C	VA LOAD	WIRE SIZE			CODE	CIRCUI	T DESCRIPTION	СКТ #	D
	1	RCP-3 235		EX	1	20			0					20	1	EX	ATC 235)	2	
	3	WH-1 235		EX	1	20				0				20	1	EX	RECEPT	Г 235	4	
	5	WH-2 235		EX	1	20					0			20	1	EX	RECEPT	Г 235	6	
	7	RCP-1 235		EX	1	20			0					20	1	EX	RECEPT	Г 251	8	
	9	RCP-2 235		EX	1	20				0				20	1	EX	DOOR S	SEC 251	10	
	11	UNIT HEATER 2	35	EX	1	20					0			20	1	EX	AIR HAN	NDLER LIGHTS 25	12	
	13	GLYCOL FEED	235	EX	1	20			180			180	12	20	1		-	OR RCPT	14	
		WATER SOFTN		EX	1	20				0				20	1		SPARE		16	
М		C-1 CNTRLS &	HEATER		1	20		500			500			20	1		SPARE		18	
		SPARE		EX	1	20			0					20	1		SPARE		20	
		FC-10 251		EX	3	20				3864		3864	8	40	3		PUMP P	-3	22	ľ
	23			-	-						3864	3864	-	-	-	-			24	
	25			-	-	-			3864			3864	-	-	-	=			26	I
		SPACE								0							SPACE		28	
		SPACE							-		0						SPACE		30	
		SPACE							0								SPACE		32	
		SPACE								0							SPACE		34	
		SPACE									0						SPACE		36	
		SPACE							0								SPACE		38	
		SPACE								0							SPACE		40	
		SPACE									0						SPACE		42	
		Y FACTORS (DF):						TED VA	4044	3864	4364		KVA	-	_					
-		NUOUS	M=MOT	202			CTE	AMPS	34	32	36	34.064						ONDUIT & CONDUCTO	OR SIZ	Έ
		ONTINUOUS	L=LARG		ото	R				IVERSIF			_					5 = GFCI BREAKER		
R=RE	CEPT	TACLES	O=OTHE	R	_				DIVE	RSIFIED	O AMPS	34.064	Α	3 = GI	FEP	BREAK	R			
(=K]	TCHE	N EQUIPMENT													100		CK OFF DE			
											THIS P	ANEL, AL	.L O F I	TS LU	GS,	BREAK	ERS, ETC	. SHALL BE RATED F	OR 7	15 -
IOTE	S:																			
REUS	E EXI	STING SPARE BREA	KRES WHE	RE POS	SIBL	.E														

SYMBOL DEVICE/FIXTURE DESCRIPTION MOUNTING COMMENTS $\left\langle \begin{array}{c} xx \\ x \end{array} \right\rangle$ | MECHANICAL/PLUMBING EQUIPMENT CALLOUT - CONDUIT RUN CONCEALED IN WALL OR CEILING -UG---- CONDUIT RUN CONCEALED IN FLOOR OR GROUND - DEMOLITION - EXISTING 🔌 🛛 HOME RUN TO PANEL -----∃ | CONDUIT STUB CONDUIT STUB DOWN VFD VARIABLE FREQUENCY DRIVE **FUSED DISCONNECT SWITCH** (13) (14) MAIN DISTRIBUTION POWER PANEL PANEL BOARD, SURFACE 6'-6" TO TOP PANEL BOARD, RECESSED 6'-6" TO TOP (15) ABBREVIATIONS ENT ELEC. NON-METAL. TUBING NL NIGHT LIGHT, BYPASS AMPS AVAILABLE FAULT CURRENT ER EXISTING TO BE RELOCATED LOCAL SWITCHING ABOVE FINISHED FLOOR EX EXISTING TO REMAIN PC PLUMBING CONTRACTOR AFG ABOVE FINISHED GRADE FMC FLEXIBLE METAL CONDUIT POC POINT OF CONNECTION AMPS INTERR. CAPACITY GC GENERAL CONTRACTOR POS POINT OF SALE NG AMERICAN WIRE GAUGE GEC GRND. ELEC. COND. AT SES R RELOCATED BARE COPPER GFCI GRND. FLT. CURR. INTERR. RM ROOF MOUNTED BELOW FINISHED CEILING GND GROUND RMC RIGID METALLIC CONDUIT FG BELOW FINISHED GRADE IMC INTER. METAL CONDUIT RNC RIGID NON-METALLIC COND CONDUIT IG ISOLATED GROUND SBJ SYSTEM BONDING JUMPER CND CONDUIT KCMIL 1000 CIRCULAR MILS (MCM) SCA SHORT CIRCUIT AMPERES CONDUIT ONLY LFMC LIQUID-TIGHT FLEX. T TRANSMITTER CURRENT TRANSDUCER METAL. COND. TC TEMP. CONTROL CONTR. LFNC LIQUID-TIGHT FLEX. UG UNDERGROUND COPPER MATERIAL DEDICATED NON-METAL. COND. UNO UNLESS NOTED OTHERWISE DROP FROM ABOVE MC MECHANICAL CONTRACTOR VA VOLT/AMPS ELECTRICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPS VIF VERIFY IN FIELD WP WEATHERPROOF/NEMA 3R EXHAUST FAN N1 NEMA 1 EMER./EGRESS BATTERY N3R NEMA 3R XP EXPLOSION PROOF ELEC. METALLIC TUBING N NEW XR EXISTING TO BE REMOVED NOTES SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS. SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS. WIRE LIGHT FIXTURE FROM ADJACENT J-BOX CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS USE WITH POWER PACK. "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM. MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT. USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION. PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED. USE HEAVY DUTY DEVICE FOR 480 VOLT. SIZE TO THE EQUIPMENT BEING CONTROLLED FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE CIRCUIT ANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL. 6) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

ELECTRICAL SYMBOL SCHEDULE

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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 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 IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM

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

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

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

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

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

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, 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.

11. 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.

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

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

15. 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

16. 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

17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.

18. 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 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN/THWN-2)+1#12(CU,THHN/THWN-2)GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 100' 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.

20. CONDUCTORS SHALL BE COPPER STRANDED, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED.

21. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS, WIRES, AND OVERCURRENT PROTECTION PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.

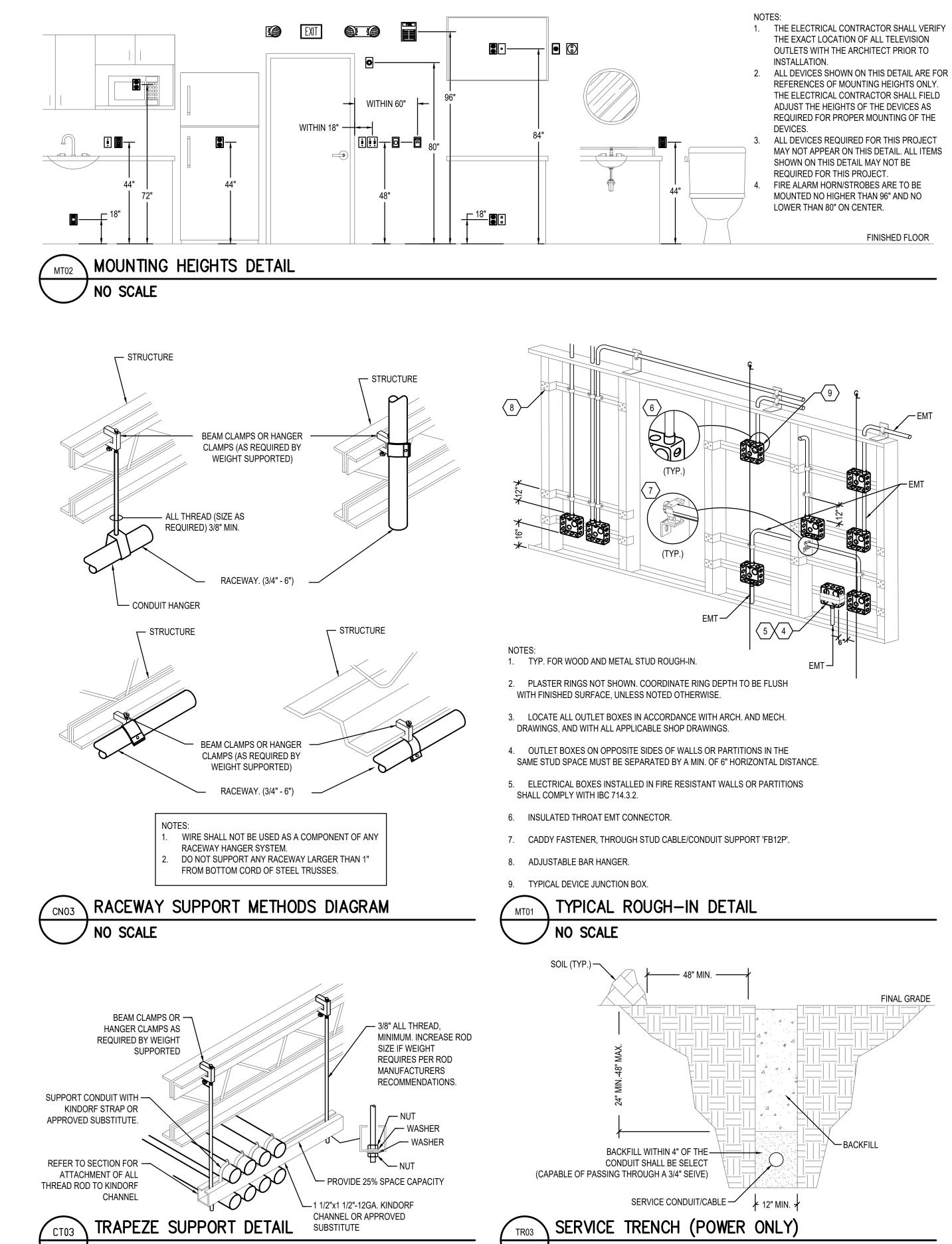
22. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.

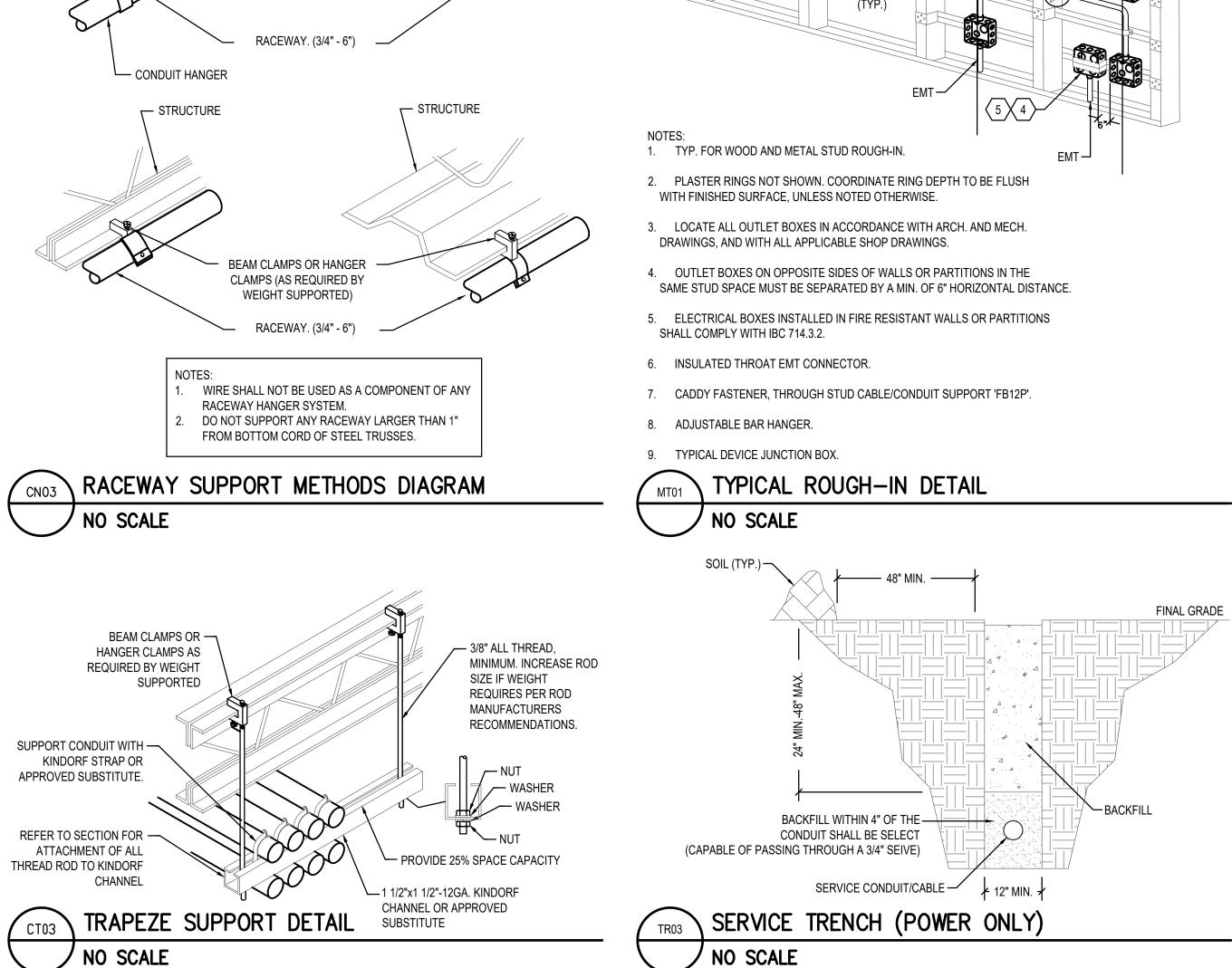
23. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.

24. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.

25. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. 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.

26. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DATE DIRECTORY WITH PROJECT COMPLETION DATE. MODIFIED CIRCUITS TO BE IN BOLD. 27. FUSED DISCONNECTS TO BE HEAVY DUTY.





Sheet Number

EG0.1

EG4.1

EP1.1

Sheet List Table

Sheet Title

ELECTRICAL NOTES & SYMBOLS

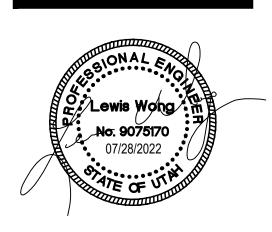
ELECTRICAL SPECIFICATIONS

ELECTRICAL POWER PLAN

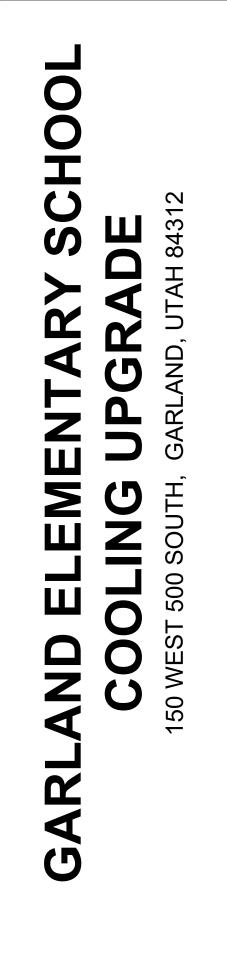
EQUIPMENT SCHEDULE																		
ELECTR								ICAL OVE						VER CURRENT PROTECTION STR				
						WIRE CON			COND	OCPD/	OCPD/		DISCONNECT			1		
TYPE	DESCRIPTION	VOLT	PHASE	LOAD	FLA	SETS	QTY	SIZE	GND	SIZE	моср	TYPE	SIZE	POLE	SIZE	SIZE	REMARKS	
C - 1	CHILLER	480	3	260.00 MCA	208.0	1	3	350	4	2 1/2	300	C1	-	-	-	-	13 B	
P - 1	PUMP	208	3	10.00 HP	32.2	1	3	8	10	3/4	40	C1	-	-	-	-	11 B	
ABBREVIATIO	NS:																	
KW = KILOWA	ATTS		VA = VC	OLT AMPERES	S		DISC	= DIS	CONN	ECT		OCPD	= OVE	RCURF	RENT P	ROTEC	TIVE D	EVICE
V/PH = VOLTA	AGE/PHASE		KVA = k	KILOVOLT AM	PERES	GND = GROUND						COND = CONDUIT						
HP = HORSEF	POWER		FLA = F	ULL LOAD AN	IPERES		STR :	= STA	RTER			MOCF	P = MAX	KIMUM (OCPD ((LISTED BY THE MANUFACTU		
W = WATTS			MCA = I	MINIMUM CIRC	CUIT AMP	ACITY	PL =	POLE										
REMARKS:																		
1. NEMA 1 FU	SED DISCONNECT SWITCH					A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26.												
								B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIV										
3. BREAKER I	N ENCLOSURE					C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIV 26.												
4. MANUAL ST	FARTER WITH THERMAL OVERLOAD					D. FUF	RNISH	ED, IN	ISTAL	LED AN	D CONN	ECTED	UNDEF	R ANOT	HER D	IVISION		
	OTOR CONTROLLER W/OUT THERMAL	OVERL	OAD			E. FUF	RNISH	ED AN	ID INS	TALLED	UNDEF	R DIV 20	6 REQU	VIRING (CONNE	CTION I	UNDER	ANOTHER DIV
6. MAGNETIC																		
	STR/NON-FUSED DISCONNECT COMBI						OCPD TYPES:											
	STR/FUSED DISCONNECT COMBINATION	N				C1 = THERMAL MAGNETIC CIRCUIT BREAKER												
	USED DISCONNECT SWITCH					C2 = N	C2 = MAGNETIC ONLY CIRCUIT BREAKER											
	NON-FUSED DISCONNECT SWITCH						_											
	FREQUENCY DRIVE					NOTES					_							
	CLE/SPECIAL PURPOSE OUTLET/ETC.					- THE DIVISION 26 CONTRACTOR MAY INCREASE THE CONDUIT SIZE BY ONE INCREMENTAL												
13. DIRECT CONNECTION								SIZE TO FACILITATE INSTALLATION OR TO HELP WITH MATERIAL AVAILABILITY/COST.										
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/SUBMITTA																		
	TE: THE EC SHALL COORDINATE ALL F P ANY DISCREPANCIES WITH THE ELE			•							IIH APP	KUVE	DIMECH	ANICA	LSHO	PURAV	VINGS/	SUBINITIALS

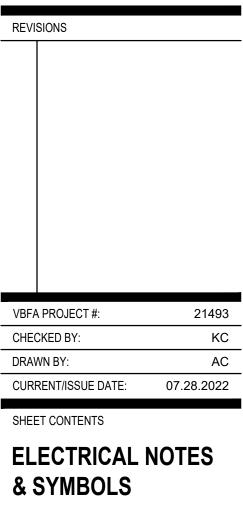


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EG0.1

	ELECTRICAL SPECIFICATIONS
E	PART 1 - GENERAL
	A. DESCRIPTION 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
	 B. RULES AND REGULATIONS 1. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED. 2. THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE
	 REQUIREMENTS THEREOF): a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL, E CODE"; PUB. NO. 72E, "AUTOMATIC FIRE DETECTORS". b. UL (UNDERWRITERS LABORATORIES, INC.). c. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION). d. UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE. e. IBC (INTERNATIONAL BUILDING CODE) f. IFC (INTERNATIONAL FIRE CODE)
D	 g. IECC (INTERNATIONAL ENERGY CONSERVATION CODE) h. IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND i. LOCAL BUILDING AUTHORITY AND CODES 3. NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VO THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.
	 C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PASCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLICAUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION. 1. EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.
	 D. WORKMANSHIP AND MATERIALS 1. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKIL TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETE ACCEPTED. 2. UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS
	 MANUFACTURER. EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUCT OF A SINGI MANUFACTURER. 3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EG AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREME SPECIFIED. 4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURED
	NAME AND RATING. 5. REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD S THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
C	E. MANUFACTURER'S RECOMMENDATIONS 1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED AN TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWN HEREIN SPECIFIED.
	F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SEGUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOR THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFER WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.
	 G. DEFINITIONS 1. "PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED. 2. "FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE. 3. "INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE. 4. "CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PILEQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE 5. "OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE BY THE ENGINEER PRIOR TO BIDDING.
B	 H. SUBMITTALS 1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMEN REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE A LISTED BELOW: 2. CATALOG CUTS a. CIRCUIT BREAKERS (EACH SIZE AND TYPE)
	 b. SAFETY SWITCHES c. MOTOR STARTERS d. THERMAL SWITCHES e. LIGHT FIXTURES
	THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBM APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, EN OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRAC DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.
	PART 2 - MATERIALS
	 A. GENERAL 1. MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURE REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE TI STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.
Α	 B. RACEWAY 1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS. 2. GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED F

	CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED. LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS. 3. SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES)	B. RACEWAYS 1. RACEWAYS SHALL RUN CONCEALED
PERLY INSTALL	SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH. 4. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT. 5. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.	PARALLEL WITH SUPPORTING WALL INCHES TO ANY WATER PIPE OR HE 2. RACEWAY ENDS SHALL BE REAMED A
	C. FITTINGS 1. ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.	CENTER OF THE COUPLING. THE US 3. RACEWAYS SHALL BE INSTALLED AS A CABINET, BOX OR FITTINGS, AND SH
S, AS ADOPTED HE SAME AS IF	D. OUTLET AND JUNCTION BOXES	CONTINUITY FROM ONE TO ANOTHE HOLE STAMPED STEEL OR MALLEAB
HE APPLICABLE	 BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP; APPLETON, RACO, OR EQUAL. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED. BOXES FOR FLOOR OUTLETS SHALL BE OF THE CAST-METAL THREADED-CONDUIT-ENTRANCE, 	SUPPORTING CONDUIT. THE SIZE O PERFORATED STRAP, OR PLUMBERS 4. PROVIDE 1/8" POLY PULL CORD IN RA 5. FOUR 90 DEGREE BENDS MAXIMUM B
	WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVER PLATE TO FINISHED FLOOR LEVEL. BOXES SHALL BE SUCH AS HUBBELL B2503 OR EQUAL. THE COVER SHALL BE HUBBELL S3925, S3082 OR EQUAL TO MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS.	C. CONDUCTORS 1. ALL CONDUCTORS SHALL BE INSTALL
	 PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. BOXES FOR STRUCTURED CABLING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED 	PHASE PHASE A
	ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8"; APPLETON, RAYCO OR EQUAL. 6. ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.	PHASE B PHASE C NEUTRAL
VOID ANY OF	7. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.	GROUND 2. MAKE JOINTS, SPLICES, TAPS AND CO
PAY FOR AND	E. CONDUCTORS 1. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE	D. JUNCTION AND PULL BOXES 1. PULL BOXES SHALL BE PROVIDED WH
BLIC	PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED. 2. CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3,	OF CONDUCTORS. TELEPHONE RAC TERMINATIONS OR BOXES.
KILLED IN THEIR	SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.	E. GROUNDING 1. INSTALL A CODE SIZED GROUNDING C
PERIENCED TED AND	 F. WIRING CONNECTIONS 1. MAKE ALL ELECTRICAL CONNECTIONS. 2. MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE 	GROUNDING. MAKE GOOD CONTAC BOXES TO THE RACEWAY SYSTEM.
IS DIVISION OF GS OF THE	UNIT. 3. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.	G. BONDING 1. BOND ALL PIPING (GAS WATER, ETC) /
IGLE EQUIPMENT	G. NAMEPLATES 1. PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA	H. SEISMIC REQUIREMENTS 1. IF REQUIRED, RECESSED TYPE LIGHT SUPPORT ON T-BAR GRID SYSTEM, S
MENTS HEREIN	PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE,	EACH SAFETY WIRE SHALL BE SECU INCHES LONGER THAN THE T-BAR G
D SPECIFIED, OR	VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE. DOUBLE STICK TAPE IS NOT ACCEPTABLE.	EACH LIGHTING FIXTURE.
	 1. PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES. a. MELTING ALLOY TYPE THERMAL OVERLOAD RELAY b. RED NEON PILOT LIGHT 	1. PERFORM DRILLING, CUTTING, AND P OR NEW, AS REQUIRED FOR THE INS MATERIALS, WORKMANSHIP, AND FI
ACCORDING WINGS OR	 c. THERMAL ELEMENT SIZED FOR MOTOR LOAD 2. PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN "NAMEPLATES". 	SURROUNDING WORK. SUCH WORK TRADE UNDER THE CONTRACTOR'S REPRESENTATIVE. COORDINATE WI DRILLING, OR CORING.
SHALL BE	K. SAFETY SWITCHES 1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE	K. TESTING
/ILL BE HELD IE TROUBLE OR ERIOR	DRAWINGS OR AS REQUIRED. ALL SAFETY SWITCHES SHALL BE UL LISTED. THE SWITCHES SHALL BE FUSED SAFETY SWITCHES OR NON-FUSED SAFETY SWITCHES AS SHOWN ON THE DRAWINGS OR REQUIRED BY CODE AND SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR	1. DEMONSTRATE THAT ALL COMPONEN THEY OPERATE IN ACCORDANCE WI 2. TEST WIRING AND CONNECTORS FOR
TELY TO THE	CUTLER HAMMER. 2. SWITCHES SHALL HAVE A QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE BOX. PADLOCKING PROVISIONS SHALL BE PROVIDED FOR PADLOCKING IN THE OFF POSITION WITH AT LEAST THREE PADLOCKS. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 VOLTS AC OR DC OR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER	LIGHTING AND APPLIANCE PANEL W WALL SWITCHES CLOSED AND FIXTU EACH INDIVIDUAL POWER CIRCUIT V 3. PROVIDE DETAILED DOCUMENTATION REPRESENTATIVE, WITH THE NAMES
	AND ALUMINUM CABLE AND SHALL HAVE A TEMPERATURE RATING OF AT LEAST 75 DEGREES C. 3. SWITCHES SHALL BE FURNISHED IN NEMA 1 HEAVY DUTY ENCLOSURES WITH KNOCKOUTS UNLESS	AND WITNESSED EACH TEST.
PIECE OF BLE. BE APPROVED	OTHERWISE NOTED OR REQUIRED. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES (WP). 4. THE SAFETY SWITCHES SHALL BE SECURELY MOUNTED IN ACCORDANCE WITH THE NEC. THE	
	CONTRACTOR SHALL PROVIDE ALL MOUNTING MATERIALS AND INSTALL FUSES IN THE FUSED SAFETY SWITCHES. THE FUSES SHALL BE DUAL ELEMENT ON MOTOR CIRCUITS.	
ENT AS E AND AS	 5. PROVIDE FUSES AS SPECIFIED BELOW. FUSES SHALL BE INSTALLED SO THAT THE RATING IS CLEARLY VISIBLE WITHOUT REMOVING FUSE. PROVIDE A SPARE FUSE FOR EACH FUSE INSTALLED. 6. PROVIDE A NAMEPLATE ON EACH DISCONNECT SWITCH AS SPECIFIED IN "NAMEPLATES". 	
	L. FUSES 1. FUSES SHALL BE CLASS "RK-1" REJECTION TYPE. FUSES SERVING MOTOR LOADS SHALL BE DUAL	
	ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL BE CURRENT LIMITING TIME DELAY TYPE WITH INTERRUPTING CAPACITY OF 200,000 AMP RMS SYMMETRICAL. 2. FUSES SERVING SWITCH OR CIRCUIT BREAKER DISTRIBUTION PANELS, LIGHTING PANEL BOARDS AND	
BMIT ALL	OTHER NON - MOTOR LOADS NEED NOT BE TIME DELAY TYPE, BUT SHALL BE CURRENT LIMITING WITH THE INTERRUPTING CAPACITY OF 200,000AMP RMS SYMMETRICAL MINIMUM. FUSES SHALL BE	
ENGINEER OR ACTORS COST IF	BUSSMAN, GOULD OR LITTELFUSE. 3. PROVIDE FUSES SIZED TO THE MAXIMUM SIZE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT OR AS SHOWN ON THE DRAWINGS IF THE MANUFACTURER DOES NOT HAVE A RECOMMENDED SIZE.	
	PART 3 - EXECUTION	
RERS	A. GENERAL 1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.	
THE LATEST	 ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE 	
	CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO. 4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN	

LED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE ALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 R HEATER BE INSTALLED AND SHALL NOT FLUME.

ED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE USE OF RUNNING THREADS IS PROHIBITED.

AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL THER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO EABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR ZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, BERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.

I RACEWAYS WITHOUT CONDUCTORS.

BETWEEN TERMINATIONS OR BOXES.

ALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:

208/120 480/277	
BLACK BROWN	
RED ORANGE	
BLUE YELLOW	
WHITE GRAY	
GREEN GREEN	
ND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONI	NECTORS.

WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN

NG CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR ITACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL EM. USE APPROVED BONDING MATERIALS.

C) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC.

GHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND EM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6 R GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF

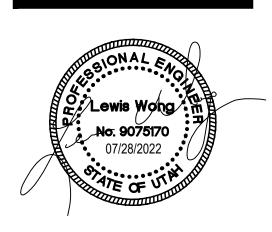
D PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME D FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL ORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE OR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNER'S E WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING,

NENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT E WITH THE CONTRACT DOCUMENTS.

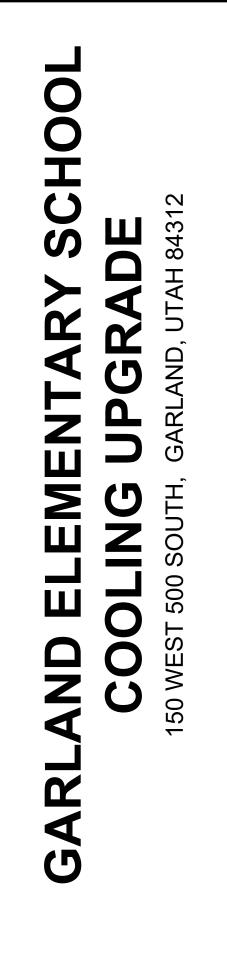
FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, IXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST T WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION. TION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNER'S AMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED

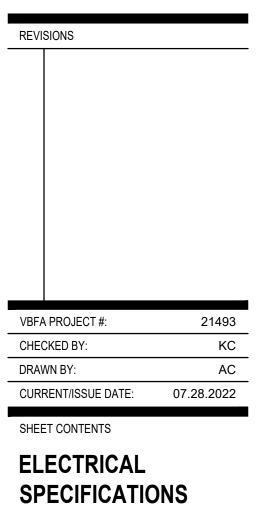


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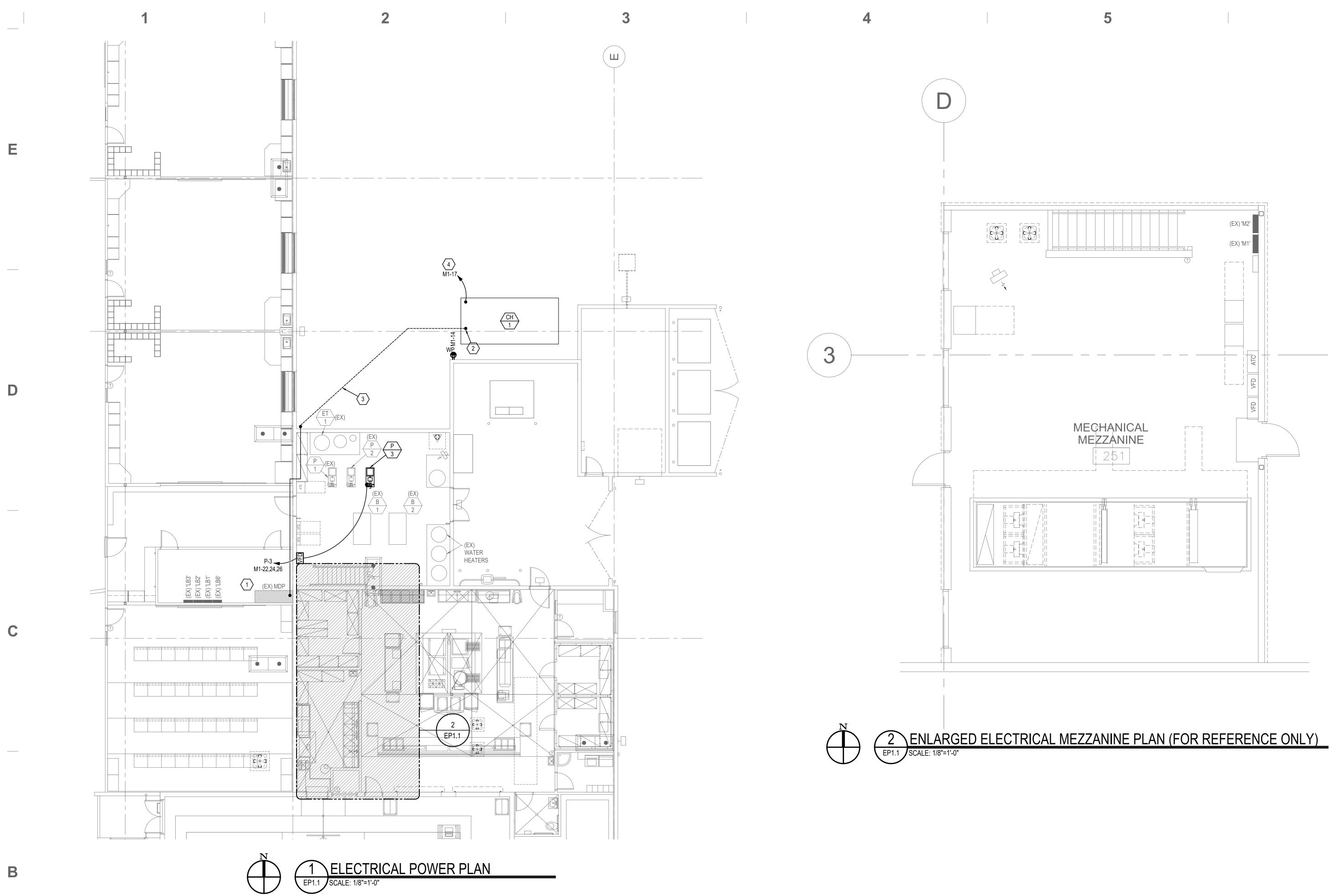


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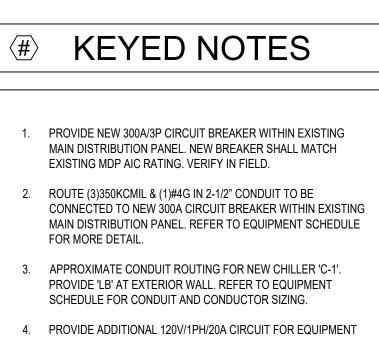








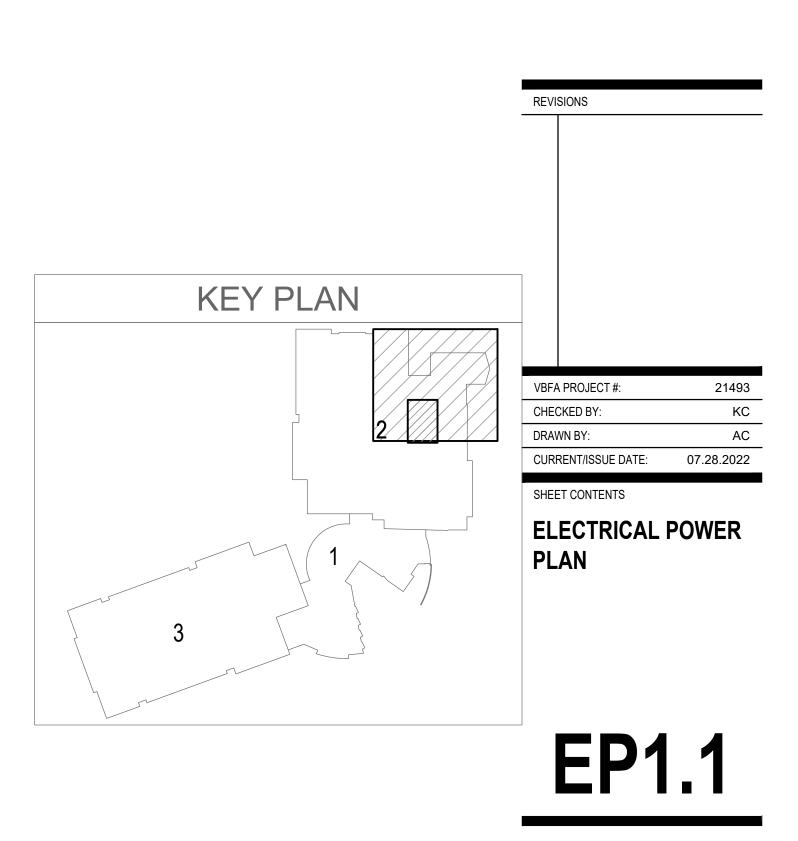
Α



4. PROVIDE ADDITIONAL 120V/1PH/20A CIRCUIT FOR EQUIPMENT HEATERS AND CONTROLS. REFER TO EQUIPMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

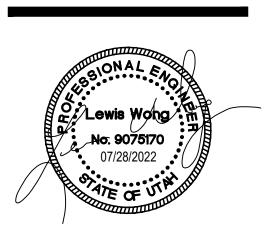
- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS IN FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. EXISTING DEVICES SHOWN ON SHEETS ARE GATHERED FROM AS-BULT 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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