			1				
		ELE	EDULE				
	SYMBOL	DEVICE/FIXTURE DESCR		MOUNT		COMMENTS	
	$\left(\begin{array}{c} XX \\ X \end{array} \right)$	MECHANICAL/PLUMBING	EQUIPMENT C				
	X	DIAGRAM/DETAIL CALLO	JT				
		CONDUIT RUN CONCEAL	ED IN WALL OF				
	UG	CONDUIT RUN CONCEAL	ed in floor c	OR GROUND			
		DEMOLITION					
_		EXISTING					
E		HOME RUN TO PANEL					
	3	CONDUIT STUB					
	s	CONDUIT BREAK/CONTIN	UATION				
	•	CONDUIT STUB DOWN					
	o	CONDUIT STUB UP					
	(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX	(Q) QUADPLEX	OR DOUBLE DUPLEX			
	ΦΦΦ	STANDARD CONVENIENC	E OUTLET		18"		
	₽ ₽ ₽	CONVENIENCE OUTLET,	GFCI		18"		
	VFD	VARIABLE FREQUENCY D	RIVE				
	0	JUNCTION BOX			AS NOTED)	(12)
	Ø	JUNCTION BOX, FLOOR			FLOOR		(12)
	\$ TH	MANUAL SWITCH WITH T	HERMAL OVER	LOAD			
	Ľ	NON-FUSED DISCONNEC	T SWITCH			(13) (14)	
	Ē	FUSED DISCONNECT SW	ITCH			(13) (14)	
	T	TRANSFORMER		SEE PLANS			
		MAIN DISTRIBUTION POW	/ER PANEL				
D		PANEL BOARD, SURFACE		6'-6" TO TOP		(15)	
		PANEL BOARD, RECESSE	Ð	6'-6" TO TOP		(15)	
	Ю	WALL LIGHT FIXTURE, SU	IRFACE	AS NOTED)	(1) (2)	
			ABB	REVIATIONS			
	A AMPS AFC AVAI	S LABLE FAULT CURRENT		. NON-METAL. TUBING ING TO BE RELOCATED			LIGHT, BYPASS SWITCHING
	AFF ABO	VE FINISHED FLOOR VE FINISHED GRADE	EX EXIST	ING TO REMAIN BLE METAL CONDUIT	PC	PLUMB	ING CONTRACTOR OF CONNECTION
	AIC AMP	S INTERR. CAPACITY RICAN WIRE GAUGE	GC GENE	RAL CONTRACTOR D. ELEC. COND. AT SES	POS		OF SALE
	BC BARE	E COPPER	GFCI GRND). FLT. CURR. INTERR.	RM	ROOF I	MOUNTED
	BFG BELC	OW FINISHED CEILING OW FINISHED GRADE		R. METAL CONDUIT	RNC	RIGID	METALLIC CONDUIT
	C CON CND CON			ATED GROUND CIRCULAR MILS (MCM)			M BONDING JUMPER
		DUIT ONLY RENT TRANSDUCER		D-TIGHT FLEX. L. COND.			MITTER CONTROL CONTR.
	CU COPI	PER MATERIAL CATED		D-TIGHT FLEX. METAL. COND.	UG		GROUND S NOTED OTHERWISE
	DFA DRO	P FROM ABOVE CTRICAL CONTRACTOR	MC MECH	ANICAL CONTRACTOR	VA	VOLT/A	
	EF EXHA	AUST FAN R./EGRESS BATTERY	N1 NEMA N3R NEMA	1	WP	WEATH	IERPROOF/NEMA 3R SION PROOF
		C. METALLIC TUBING	N NEW				NG TO BE REMOVED
	(1) SEE	LUMINAIRE SCHEDULE FO		NOTES PES AND DETAILS			
	(2) SEE	LUMINAIRE SCHEDULE FO	R MOUNTING F	REQUIREMENTS.			
C	(4) CON	NECT NEAREST UN-SWITC	HED HOT CON	DUCTOR TO EMERGENO	CY BALLAS	Г	
	(6) COO	RDINATE MOUNTING HEIG			LEVATIONS	3	
	(8) "X" IN	WITH POWER PACK. N SYMBOL IS INCHES BETW	-			-	
	· /	VIDE UL LISTED DEVICE CO THE VOLTAGE OF THE RE				M.	
	· · /	A 4" X 4" BOX WITH A MUD VIDE MUD RING AND/OR BO).
	· · /	HEAVY DUTY DEVICE FOR TO THE EQUIPMENT BEING		D			
	(15) FIRE	ALARM PANELS: FACP: FIF	RE ALARM CON	ITROL PANEL, NAC: NOT			NCE CIRCUIT
	PANE		,				3
		. I MICHAEO MILE OUALED					

She	et List Table
Sheet Number	Sheet Title
EG0.1	ELECTRICAL NOTES & SYMBOLS
EG4.1	ELECTRICAL SPECIFICATIONS
EP1.6	AREA 6 – ELECTRICAL PLAN

NAME: LSW-1 PECIAL EQUIPMENT VOLTAGE: 208 / 120 MOUNTING: GROUND BUS MAINS: " W " D TYPE: PRL1 BREAKER SUB-FEED BREAKER FLUSH SUB-FEED LUGS PH 3 WIRES 4 ____ ELEC ROOM FEED: 225 AMPS NEMA 3R LOCATION AIC AMPS BOTTOM 42 SPACES SURGE PROTECTOR
 CKT
 CIRCUIT DESCRIPTION
 CODE
 BRKR WIRE
 VA
 PHASE VA
 VA
 WIRE
 BRKR
 CODE
 CIRCUIT DESCRIPTION

 F
 #
 CIRCUIT DESCRIPTION
 CODE
 PIAMP SIZE LOAD
 A
 B
 C
 LOAD
 SIZE AMP P
 CODE
 CIRCUIT DESCRIPTION
 C
 1 RECEPTS GYM C-33 EX 1 20 20 1 EX BB-1 NORTH EAST 3 RECEPTS GYM C-32 EX 1 20 20 1 EX BB-1 NORTH EAST CNTR 4 5 RECEPTS GYM C-31 EX 1 20 0 20 1 EX BB-1 NORTH WEST CNTR 6 EX 1 20 0 7 SPRINKLERS 20 1 EX BB-1 NORTH WEST CNTR 8 20 1 EX BB-1 SOUTH EAST 9 RECEPTS C-31 10 EX 1 20 0 11 PHONE BOARD C-34 EX 1 20 20 1 EX BB-1 SOUTH ESAT WEST 12 0
 M
 13
 GLYCOL FEED SYSTEM
 1
 20
 12
 1176
 1176

 R
 15
 EXTERIOR RECPT
 1
 20
 12
 180
 1
 25 1 EX SPARE 20 1 EX BB-1 WEST SOUTH WEST 16 180 17 SCOREBOARD GYM EX 1 20 0 20 1 EX BB-1 EAST 18 M 19 CH-1 CNTRL & HEATER 1 20 12 500 500 20 1 EX CURTIAN GYM 20 EX 1 20 EX 1 20 21 SPARE 20 1 EX SPARE 22 24 0 20 1 EX SPARE 23 SPARE EX 1 20 0 _ 26 20 1 EX SPARE 25 SPARE 0 20 1 EX SPARE 28 27 SPARE EX 1 20 0 20 1 EX SPARE 30 29 SPARE EX 1 20 31 SPACE EX 30 3 EX MUSIC ROOM AC 0 33 SPACE - - -EX 34 EX 35 SPACE 0 - - -36
 EX
 0
 1
 EX
 SPACE

 EX
 0
 1
 EX
 SPACE
 37 SPACE 38 39 SPACE 40 41 SPACE 42
 CONNECTED VA
 1676
 180
 0
 1.9 KVA
 CODES:

 M=MOTOR
 CONNECTED AMPS
 14
 2
 0
 5.1517 A
 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
 DIVERSITY FACTORS (DF): C=CONTINUOUS DIVERSIFIED VA 2 KVA 2 = SHUNT-TRIP BREAKER 5 = GFCI BREAKER L=LARGEST MOTOR N=NON-CONTINUOUS DIVERSIFIED AMPS 5.1517 A 3 = GFEP BREAKER R=RECEPTACLES O=OTHER K=KITCHEN EQUIPMENT 4 = PROVIDE LOCK OFF DEVICE THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75* REUSE EXISTING SPARE BREAKERS WHERE POSSIBLE MATCH EXISTING PANEL AIC RATING WITH ALL NEW BREAKERS

THE ELECTRICAL SYSTEMS DEFINED BY THE
SYSTEMS AND SHALL BE BID WITH THIS INTE
BECOME FAMILIAR WITH THE TYPE OF CONS
EXIST IN EITHER THE PLANS OR SPECIFICAT
BID PRICE SO A CHANGE CAN BE ISSUED IN A
SUPPLY THE PROPER MATERIALS AND LABO
ELECTRICAL SYSTEM IS COMPLETE, THE CO
SHALL BE MADE COMPLETE AND OPERABLE.

- GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
- 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.
- SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
- 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 CONTACT WITH THE SOIL.
- OR WET LOCATIONS.
- EXPENSE.
- BE AT THE COST OF THE ELECTRICAL CONTRACTOR.

- MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.

- 27. FUSED DISCONNECTS TO BE HEAVY DUTY.

GENERAL NOTES

ESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE ENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND STRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT TIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL OR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM

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

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

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,

12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE

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

19. 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.

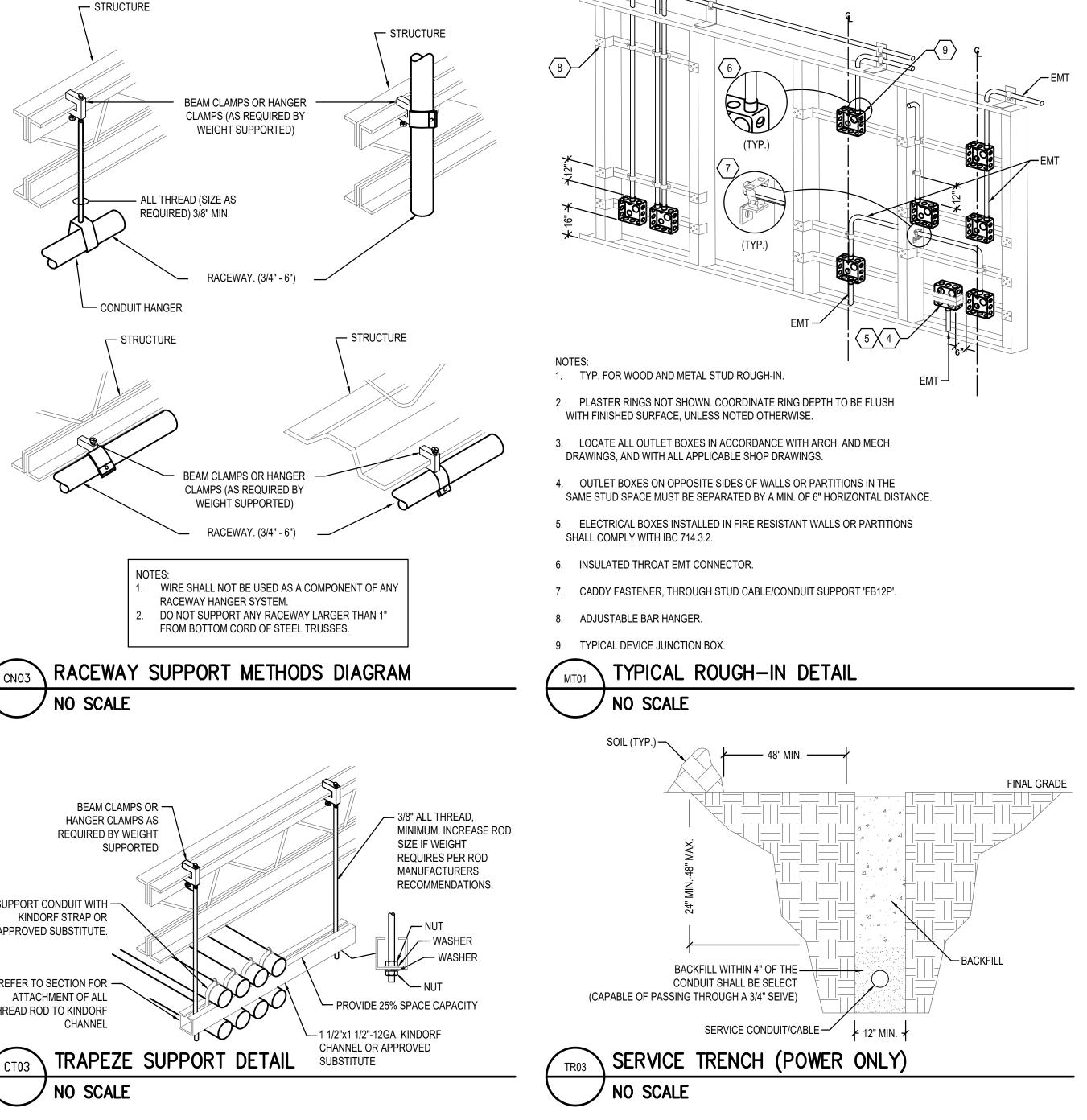
23. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING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

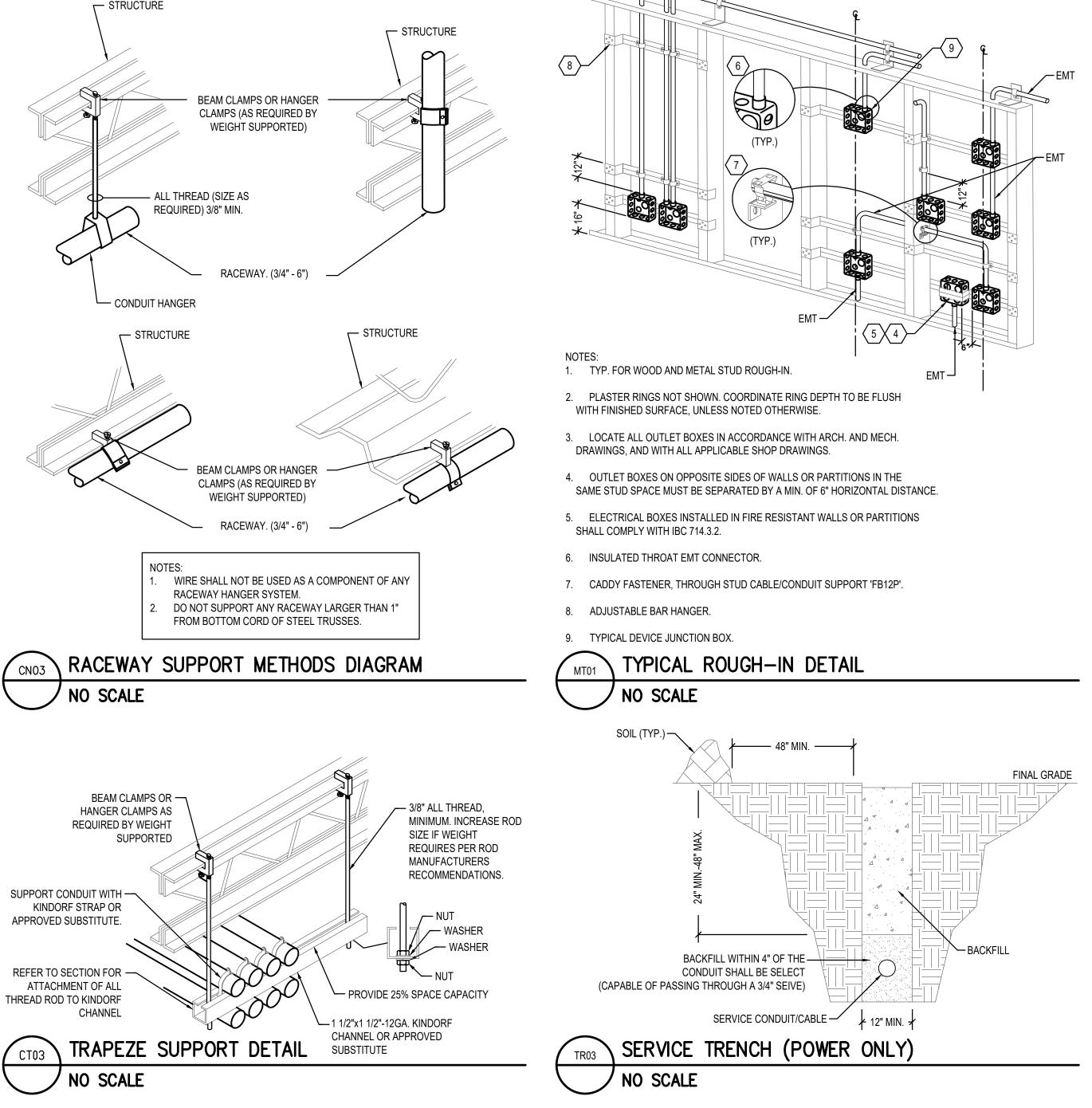
24. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE

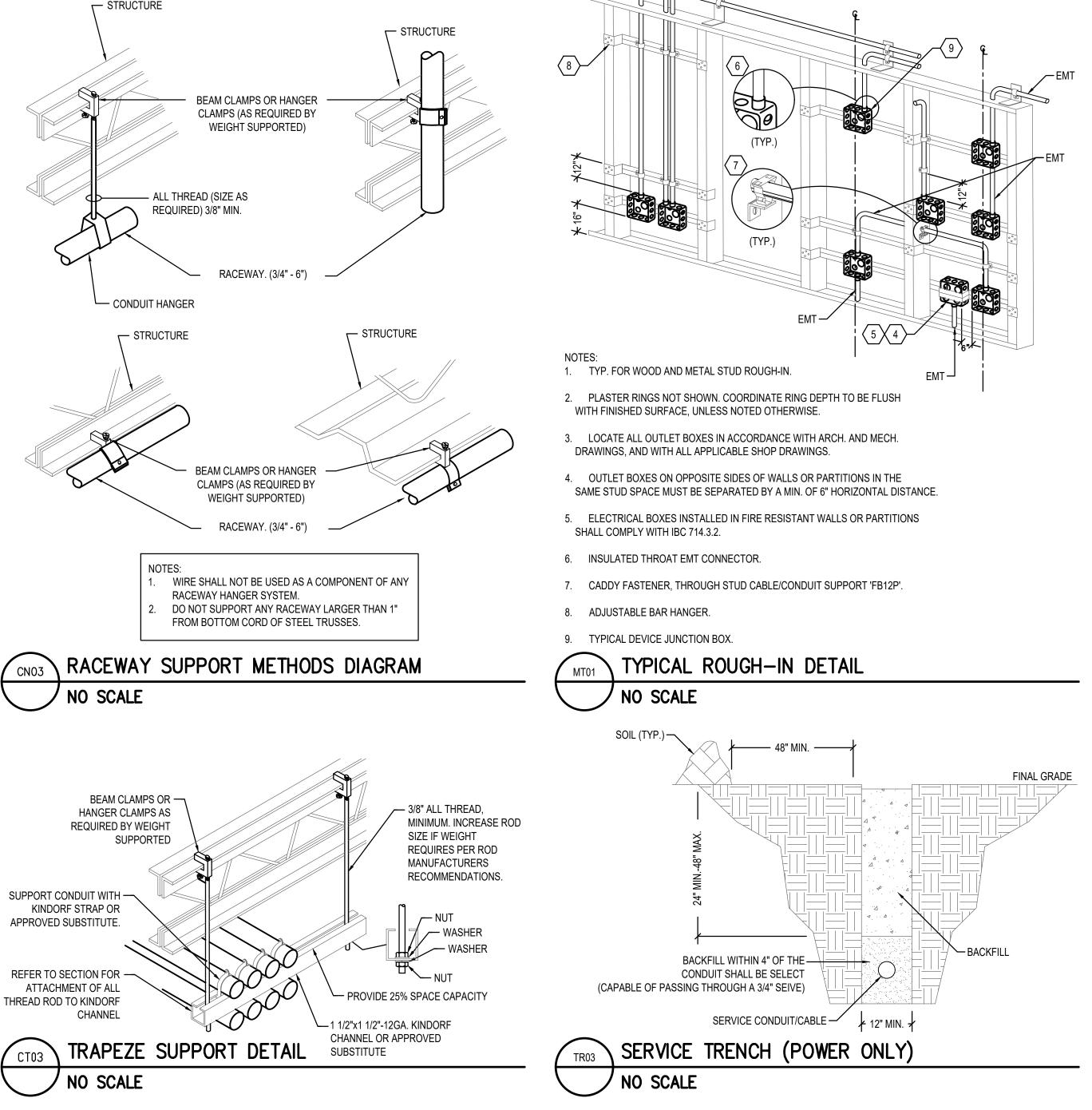
25. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING 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.

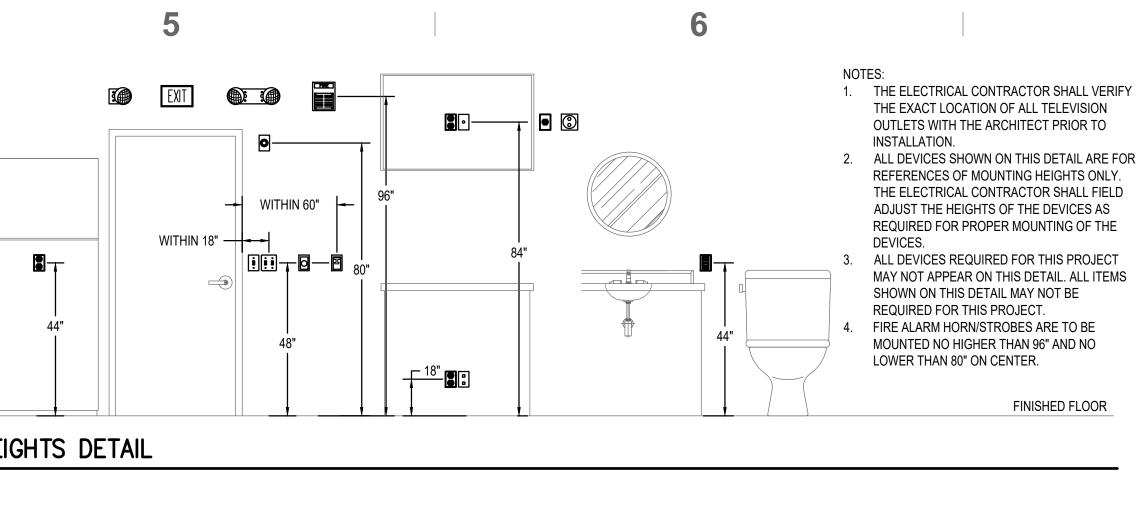
MOUNTING HEIGHTS DETAIL , MT02 NO SCALE







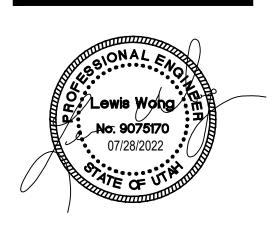
				EQUIP	PMEN	IT SC	HED	OULE															
			1 1		ELECTRI							ION ST											
TYPE DESCRIPTION			PHASE	LOAD	FLA		WIRE		ND OCPD/			FUSE NEW	REMARKS					LUMINAIRE SC	HEDU	LE			
		VOLI	THACE	LOAD		SETS Q	TY SIZE	GND SI	ZE MOCP	SIZ	POLE	SIZE SIZ		TYPE	PE	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	G TYPE	MOUNTING	DIMMING	VA
CH - 1	AIR-COOLED CHILLER	480	3	1043.00 MCA	834.4	4	3 350	3\0 2	/2 1200	C1 -	-		13 B		WA	LL	LITHONIA	OLWX1 LED 40W 50K		LED			
GFS - 1	GLYCOL FEED SYSTEM	120	1	0.70 FLA	0.7	1	2 12	12 3	4 20	C1 -	-		12 A		BUI	LDING MOUNTED EXTERIOR WALL				4000 LUMENS			
P - 3	PUMP	480	3	50.00 HP	65.0	1	3 3	8 1	90	C1 -	-		11 B		PAC	CK.					WALL (MATCH		
P - 4	PMUP	480	3	50.00 HP	65.0	1	3 3	8 1	90	C1 -	-		11 B	W1	1				MVOL	T	EXISTING	N/A	40
ABBREVIATIONS																					FIXTURE HEIGH	T)	
KW = KILOWATI			VA = VO		3	D	SC = DIS	CONNECT	· · · ·	OCPD = OV	RCURRE	ENT PROTE	CTIVE DEVICE										
V/PH = VOLTAG				LOVOLT AMF			ND = GRO			COND = CC				Lumin	naire S	chedule General Notes:							
HP = HORSEPO	WER		FLA = FU	JLL LOAD AM	IPERES	S	STR = STARTER MOCP = MAXIMUM OCPD (LISTED BY THE MANUFACTUR					1		er to Luminaire description for fixture requi	ements Manufactures	model numbers may not be specific o	r complete T	he contractor is respons	sible to provide complete fi	ixtures as des	scribed on		
W = WATTS			MCA = N	IINIMUM CIRC	CUIT AMP	CITY P	= POLE					Ì				schedule with all mounting hardware and			i compiete: i				
										a destruction of the second													
REMARKS:						REMARK	S:							2	Refe	er to the architectural reflected ceiling drav	ings for exact fixture lo	ocations and ceiling types. Verify exact	t ceiling type	s and bring to the attent	ion of the architect and ele	ectrical engine	eer anv
	D DISCONNECT SWITCH							STALLED	AND CONNE		R DIVISIO	DN 26.		2		er to the architectural reflected ceiling draw propancies prior to bid. Fixtures shall mate			t ceiling type	s and bring to the attent	ion of the architect and ele	ectrical engine	eer any
1. NEMA 1 FUSE	D DISCONNECT SWITCH FUSED DISCONNECT SWITCH					A. FURN	SHED, IN						CONNECTION UNDER DIV	2	disc	repancies prior to bid. Fixtures shall mate	h architectural ceiling t	types.					
1. NEMA 1 FUSE 2. NEMA 1 NON-	FUSED DISCONNECT SWITCH					A. FURNI B. FURNI	SHED, IN SHED AN	D INSTAL	ED UNDER	ANOTHER I	IVISION F	REQUIRING	CONNECTION UNDER DIV CTED UNDER DIV 26.	2 3 4	disc Prov	repancies prior to bid. Fixtures shall mate vide all fixture support and seismic bracing	h architectural ceiling t to secure fixture to str	types. ructure, walls and ceiling systems. Ref	er to mountin	g details for additional re	equirements. Provide all p	ole bases as s	shown on
2. NEMA 1 NON- 3. BREAKER IN I	FUSED DISCONNECT SWITCH					A. FURN B. FURN C. FURN	SHED, IN SHED AN SHED UN	D INSTAL	ED UNDER	ANOTHER I ON BUT INS	IVISION F	REQUIRING	CTED UNDER DIV 26.	2 3 4	disc Prov Prio	repancies prior to bid. Fixtures shall mate vide all fixture support and seismic bracing r approval shall be required for all manufac	h architectural ceiling t to secure fixture to str tures who are not listed	types. ructure, walls and ceiling systems. Ref d on this schedule. The prior approvals	er to mountin	g details for additional re	equirements. Provide all p	ole bases as s	shown on
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1. NEMA 1 FUSE 2. NEMA 1 NON- 3. BREAKER IN I 4. MANUAL STAI 5. MANUAL MOT	FUSED DISCONNECT SWITCH ENCLOSURE RTER WITH THERMAL OVERLOAD OR CONTROLLER W/OUT THERMA		OAD			A. FURN B. FURN C. FURN D. FURN	SHED, IN SHED AN SHED UN SHED, IN	D INSTAL DER ANC STALLED	LED UNDER THER DIVISI AND CONNE	ANOTHER I ON BUT INS CTED UNDI	IVISION F TALLED A R ANOTH	REQUIRING AND CONNE HER DIVISIO	CTED UNDER DIV 26. N.	2 3 4 5	disc Prov Prio appi Sub	repancies prior to bid. Fixtures shall mater vide all fixture support and seismic bracing or approval shall be required for all manuface rovals received after this time cut-off shall mittals for prior approval shall be equivaled	h architectural ceiling t to secure fixture to str tures who are not listed not be reviewed or appr t to the specified fixture	types. ructure, walls and ceiling systems. Ref d on this schedule. The prior approvals roved. res and reviewed and signed by the prin	er to mountin shall be sub nciple of the o	g details for additional re mitted to the electrical e rganization that is subm	equirements. Provide all p engineer (7) working days nitting for approval. Provide	ole bases as a prior to the bid	shown on d. Prior ture
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LUMINAIRE SCHEDU

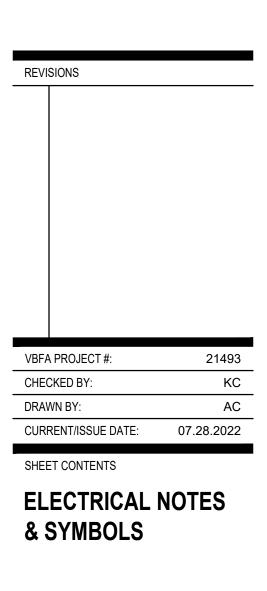


181 East 5600 South Murray, UT 84107 801.530.3148 T 801.530.3150 F



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







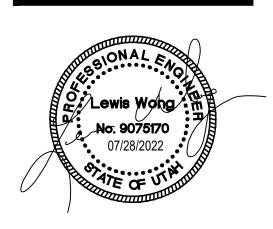
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	ELECTRICAL SPECIFICATIONS
	PART 1 - GENERAL
E	A. DESCRIPTION 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRI A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
	 B. RULES AND REGULATIONS 1. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFI 2. THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AN BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONF REQUIREMENTS THEREOF): a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, 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) g. IECC (INTERNATIONAL ELECTRICAL CODE) STATE AND i. LOCAL BUILDING AUTHORITY AND CODES 3. NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTR THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.
D	 C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHA SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY A AUTHORITIES 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 PER TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNT ACCEPTED.
	 UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTE MANUFACTURER. EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUC MANUFACTURER. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE
	 SPECIFIED. 4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH NAME AND RATING. 5. REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
C	E. MANUFACTURER'S RECOMMENDATIONS 1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN O HEREIN SPECIFIED.
	F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCT THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONT LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CO MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERI WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITION
	 G. DEFINITIONS 1. "PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDIC 2. "FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PRO 3. "INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE. 4. "CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE O EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS 5. "OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT BY THE ENGINEER PRIOR TO BIDDING.
B	 H. SUBMITTALS 1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AN REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRE 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
	APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE AF OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT TH DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.
	 PART 2 - MATERIALS A. GENERAL MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MAREGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMEN
Α	 B. RACEWAY 1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATION 2. GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHA

S	CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED. LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.	B. RACEWAYS
JIRED TO PROPERLY INSTALL	 SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT. 	 RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME. RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.
CIFIED.	C. FITTINGS 1. ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.	3. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO
O AMENDMENTS, AS ADOPTED CIFICATION THE SAME AS IF DNFORM TO THE APPLICABLE	D. OUTLET AND JUNCTION BOXES 1. 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.	HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.
70, "NATIONAL, ELECTRICAL	 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, 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 	 4. PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS. 5. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES. C. CONDUCTORS
	 MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS. 4. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. 5. BOXES FOR STRUCTURED CABLING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED 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 	1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS: PHASE 208/120 480/277 PHASE A BLACK BROWN PHASE B RED ORANGE PHASE C BLUE YELLOW
STRUCTED TO VOID ANY OF	WALL MATERIAL. 7. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.	NEUTRAL WHITE GRAY GROUND GREEN GREEN 2. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.
HALL APPLY, PAY FOR AND Y AND ALL PUBLIC	 E. CONDUCTORS 1. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE 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, 	 D. JUNCTION AND PULL BOXES 1. PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.
PERSONNEL SKILLED IN THEIR	SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS. F. WIRING CONNECTIONS 1. MAKE ALL ELECTRICAL CONNECTIONS.	E. GROUNDING 1. INSTALL A CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL BOXES TO THE RACEWAY SYSTEM. USE APPROVED BONDING MATERIALS.
INTIL COMPLETED AND	 MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT. 	G. BONDING
NT UNDER THIS DIVISION OF ITED CATALOGS OF THE DUCT OF A SINGLE	3. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.	1. BOND ALL PIPING (GAS WATER, ETC) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC. H. SEISMIC REQUIREMENTS
CT MATERIAL EQUIPMENT THE REQUIREMENTS HEREIN	G. NAMEPLATES 1. PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE MINIMUM AT WHITE DX 2/4/14/14/14 FOR DANIEL BOARD IDENTIFICATION INCLUDE DESIGNATION BLASE	1. IF REQUIRED, RECESSED TYPE LIGHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND SUPPORT ON T-BAR GRID SYSTEM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF EACH SAFETY WIRE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6
TH THE MANUFACTURER'S	MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE, VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE. DOUBLE STICK TAPE IS NOT ACCEPTABLE.	INCHES LONGER THAN THE T-BAR GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF EACH LIGHTING FIXTURE.
HE STANDARD SPECIFIED, OR BE INSTALLED ACCORDING N ON THE DRAWINGS OR	 J. FRACTIONAL HORSEPOWER MANUAL STARTER 1. PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES. a. MELTING ALLOY TYPE THERMAL OVERLOAD RELAY b. RED NEON PILOT LIGHT c. THERMAL ELEMENT SIZED FOR MOTOR LOAD 2. PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN "NAMEPLATES". 	I. CUTTING AND PATCHING PERFORM DRILLING, CUTTING, AND PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING OR NEW, AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL SURROUNDING WORK. SUCH WORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE TRADE UNDER THE CONTRACTOR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. COORDINATE WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING.
THIS SECTION SHALL BE ICTIONS DEVELOP DURING INTRACTOR WILL BE HELD O CORRECT THE TROUBLE OR ERIAL OR INFERIOR ITED IMMEDIATELY TO THE IONAL COST.	 K. SAFETY SWITCHES 1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE 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 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 	 DRILLING, OR CORING. K. TESTING 1. DEMONSTRATE THAT ALL COMPONENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 2. TEST WIRING AND CONNECTORS FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH LIGHTING AND APPLIANCE PANEL WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, WALL SWITCHES CLOSED AND FIXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST EACH INDIVIDUAL POWER CIRCUIT WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION.
DICATED. ROJECT SITE.	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 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	3. PROVIDE DETAILED DOCUMENTATION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, WITH THE NAMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED AND WITNESSED EACH TEST.
E OPERATING PIECE OF 2. AS APPLICABLE. 2MENT MUST 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.	
S AND EQUIPMENT AS PRESENTATIVE 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". 	
OR SHALL SUBMIT ALL ARCHITECT, ENGINEER OR THE CONTRACTORS COST IF	 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 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 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	
MANUFACTURERS AND SHALL BE THE LATEST IENT.	 A. GENERAL 1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE. 2. ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED. 3. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE 	
ONS. GHALL BE USED FOR	CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO. 4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED.	

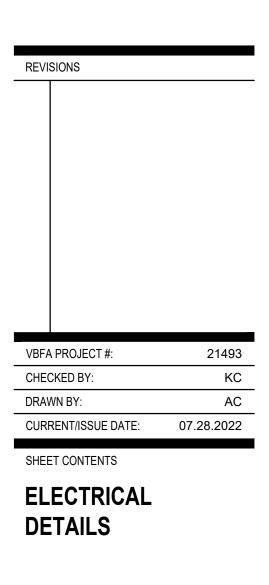


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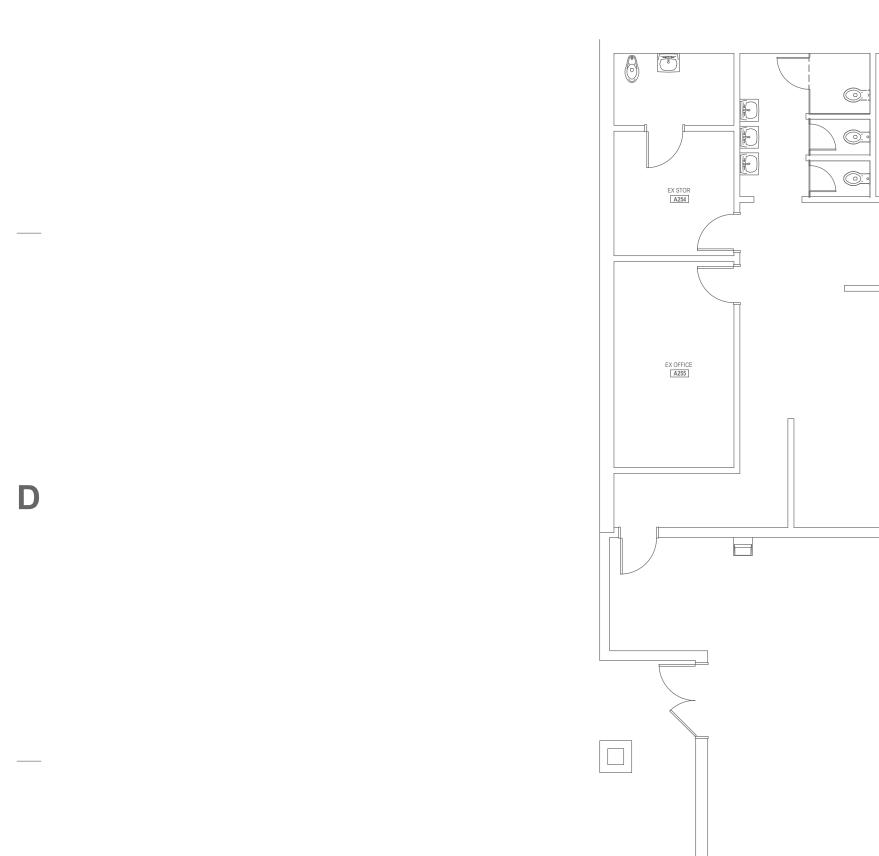


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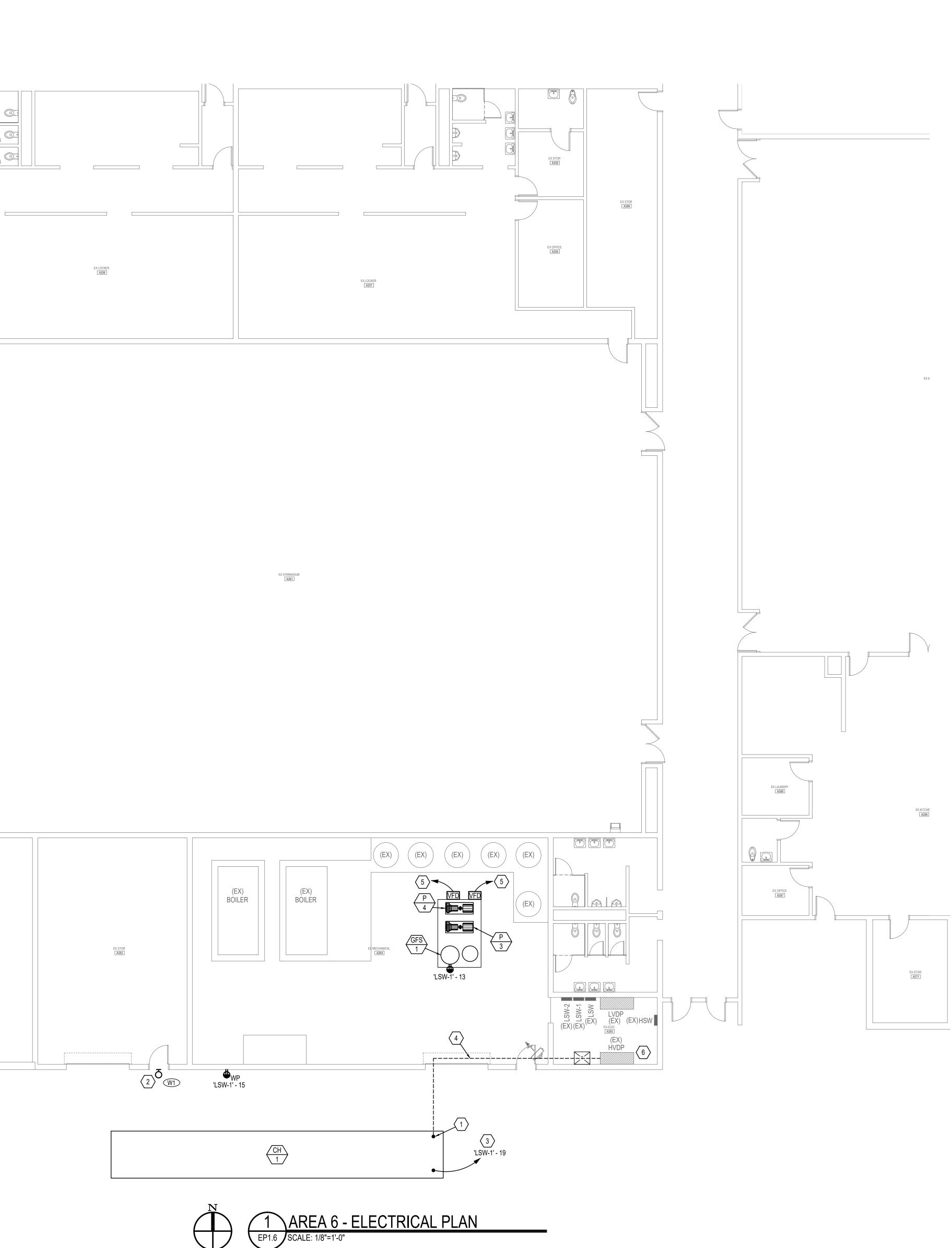
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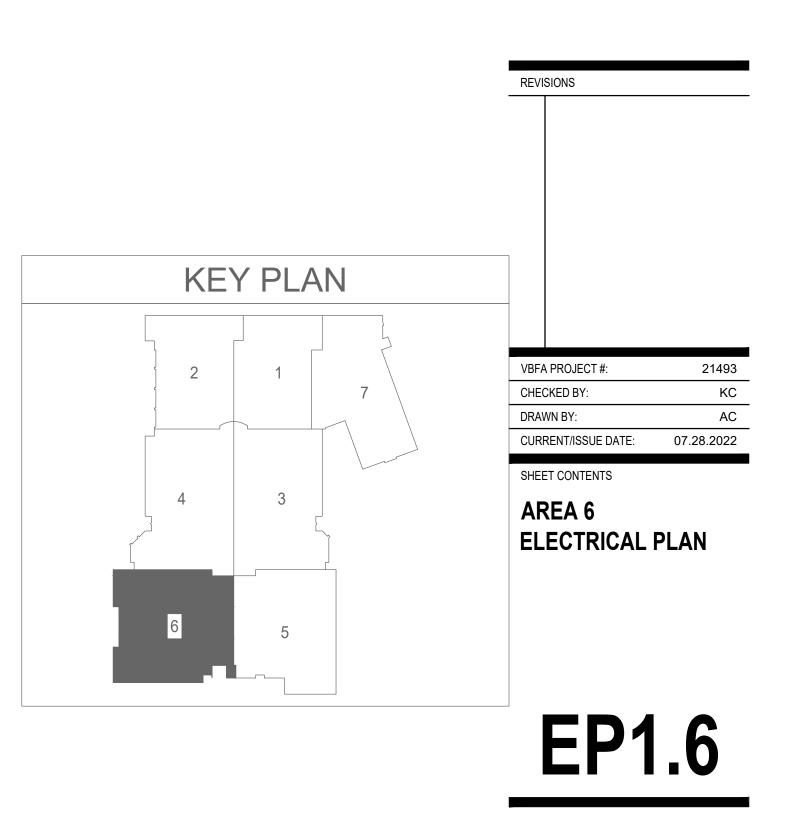
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(#) KEYED NOTES

- 1. ROUTE CIRCUIT, REFER TO EQUIPMENT SCHEDULE FOR SIZING REQUIREMENTS, TO BE CONNECTED TO A NEW 1200A/3P CIRCUIT BREAKER WITHIN EXISTING MAIN DISTRIBUTION PANEL 'HVDP'.
- 2. REPLACE EXISTING WALL PACK FIXTURE WITH NEW FIXTURE SCHEDULED, REFER TO LIGHT FIXTURE SCHEDULE FOR MORE DETAIL.
- 3. PROVIDE ADDITIONAL 120V/1PH/20A CIRCUIT FOR EQUIPMENT HEATERS AND CONTROLS. REFER TO EQUIPMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.
- 4. APPROXIMATE CONDUIT ROUTING FOR NEW CHILLER 'C-1'. REFER TO EQUIPMENT SCHEDULE FOR CONDUIT AND CONDUCTOR SIZING.
- 5. ROUTE CONDUIT AND CONDUCTORS, REFER TO EQUIPMENT SCHEDULE FOR MORE DETAIL, TO BE CONNECTED TO A NEW 90A/3P CIRCUIT BREAKER WITHIN EXISTING MAIN DISTRIBUTION PANEL 'HVDP'. VFD AND UNISTRUT MOUNTING SYSTEM ARE TO BE PROVIDED BY MC.
- 6. PROVIDE (1) 1200A/3P & (2) 70A/3P CIRCUIT BREAKERS WITH AIC RATINGS THAT MATCH EXISTING BREAKERS/GEAR.

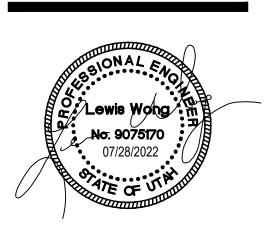
GENERAL NOTES

- 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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