SYMBOL	ELECTRICAL SYMBOL SC DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		-
(X-1)	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
X	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
$\bigcirc$	LUMINAIRE TYPE		
	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
UG	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	SURFACE RACEWAY/WIREMOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
<u> </u>			
]	CONDUIT STUB		
5	CONDUIT BREAK/CONTINUATION		
•	CONDUIT STUB DOWN		
0	CONDUIT STUB UP		
	FUSE		
$\downarrow$	GROUND/GROUND ROD		
<i>.</i>	CIRCUIT BREAKER		
+0	NURSE CALL STATION, SINGLE BED	4'-11"	(11)
-#•	NURSE CALL STATION, DOUBLE BED	4'-11"	(11)
- <u>X</u> o	NURSE CALL STATION, EMERGENCY	4'-11"	(11)
	NURSE CALL STATION, EMERGENCE	4'-11"	(11)
		4-11"	
-+->	NURSE CALL STATION, MICROPHONE/SPEAKER UNIT		(11)
+)		AS NOTED	
0	NURSE CALL DOME LIGHT	CEILING	(11)
~	NURSE CALL DOME LIGHT, WALL	WALL	(11)
•	SPEAKER	CEILING	
H●	SPEAKER, WALL	AS NOTED	(11)
$\bigcirc$	VOLUME CONTROL, WALL	4'-0"	(11)
$\bigcirc$	MICROPHONE, WALL	AS NOTED	(11)
$\bigcirc$	MICROPHONE, FLOOR	FLOOR	
	BELL, WALL	AS NOTED	
	CHIME, WALL	AS NOTED	
3	SECURITY CAMERA, FIXED	CEILING	
<u></u>	SECURITY CAMERA, PTZ	CEILING	
 ⊦⊗	SECURITY CAMERA, FIXED, WALL	AS NOTED	(11)
 H⊗i	SECURITY CAMERA, PTZ, WALL	AS NOTED	(11)
	CARD READER	4'-0"	(11)
	DOOR CONTACT	4-0	(11)
		-	
	REQUEST TO EXIT	4'-0"	(11)
	KEYPAD	4'-0"	(11)
	ELECTRIC HINGE	4'-0"	(11)
$\Diamond$	ELECTRIC LATCH	4'-0"	(11)
Ś>	ELECTRIC STRIKE	4'-0"	(11)
۲	SECURITY MOTION SENSOR	CEILING/WALL	(6) (11)
B	BIOMETRIC READER	4'-0"	(11)
	ABBREVIATIONS		
	ILABLE FAULT CURRENT EX EXISTING TO REMAIN	POC POINT	BING CONTRACTOR OF CONNECTION
	VE FINISHED FLOOR FMC FLEXIBLE METAL CONDUIT VE FINISHED GRADE GC GENERAL CONTRACTOR		OF SALE CATED
AIC AMP	S INTERR. CAPACITY GEC GRND. ELEC. COND. AT SES RICAN WIRE GAUGE GFCI GRND. FLT. CURR. INTERR.	RX RECEI	
C BAR	E COPPER GND GROUND W FINISHED CEILING IMC INTER. METAL CONDUIT	RMC RIGID	METALLIC CONDUIT
FG BEL	OW FINISHED GRADE IG ISOLATED GROUND	SBJ SYSTE	M BONDING JUMPER
ND CON	DUIT KCMIL 1000 CIRCULAR MILS (MCM) DUIT LFMC LIQUID-TIGHT FLEX.	TX TRANS	T CIRCUIT AMPERES
	IDUIT ONLY METAL. COND. RENT TRANSDUCER LFNC LIQUID-TIGHT FLEX.		CONTROL CONTR. RGROUND
COP	PER MATERIAL NON-METAL COND. ICATED MC MECHANICAL CONTRACTOR	UNO UNLES	S NOTED OTHERWISE
FA DRC	P FROM ABOVE MCA MINIMUM CIRCUIT AMPS CTRICAL CONTRACTOR N1 NEMA 1	VIF VERIF	Y IN FIELD HERPROOF/NEMA 3R
F EXH	AUST FAN N3R NEMA 3R	XP EXPLO	SION PROOF
MT ELE	R/EGRESS BATTERY N NEW C. METALLIC TUBING NL NIGHT LIGHT, BYPASS	XR EXIST	NG TO BE REMOVED
NT ELE	C. NON-METAL. TUBING LOCAL SWITCHING		
,	LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.		
2) SEE	LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS. E LIGHT FIXTURE FROM ADJACENT J-BOX		
4) CON	NECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENC ECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.	Y BALLAST	
6) COC	RDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR EI	LEVATIONS	
B) "X" I	WITH POWER PACK. N SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY.		
10) МАТ	VIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PAN CH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLI	NG CIRCUIT.	
11) USE	A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INS VIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE.	TALLATION.	).
12) PRO			
13)́ USE	HEAVY DUTY DEVICE FOR 480 VOLT. TO THE EQUIPMENT BEING CONTROLLED		

(16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.
 (17) PROVIDE 5' OF SERVICE LOOP AND TERMINATE IN 2-PORT SURFACE MOUNT BOX.

	ELECTRICAL SYMBOL S		
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
$\bigcirc$	SMOKE DETECTOR	CEILING	(9) (11)
N)	SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)
HQ1	SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)
$\bigcirc$	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)
HQ1	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)
©)	CARBON MONOXIDE DETECTOR	CEILING	(9) (11)
$\square$	DUCT SMOKE DETECTOR	SEE MECH.	(9)
FSD	FIRE/SMOKE DAMPER	SEE MECH.	
	HEAT DETECTOR	CEILING	(9) (11)
<u> </u>	BEAM DETECTOR, RECEIVER		(9)
$\bigcirc$	BEAM DETECTOR, TRANSMITTER		(9)
$\bigcirc$	BEAM DETECTOR, RECEIVER/TRANSMITTER		(9)
<u> </u>	BEAM DETECTOR, REFLECTOR		(9)
0	FLAME DETECTOR		(9)
		41.01	(9) (11)
F	FIRE ALARM MANUAL PULL STATION FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES	4'-0"	(9) (11)
⊠#	CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM HORN FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES	7'-6"	(9) (11)
⊠⊲ 	CANDELA RATING FIRE ALARM SPEAKER	7'-6"	(9) (11) (9) (11)
	FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES	7'-6"	(9) (11)
&<	CANDELA RATING CEILING MOUNT FIRE ALARM HORN STROBE,	CEILING	(9) (11) (9) (11)
 ⊗ <sup>#</sup>	ATTRIBUTE SIGNIFIES CANDELA RATING CEILING MOUNT FIRE ALARM STROBE,	CEILING	(9) (11)
⊗ ⊗⊲ <sup>#</sup>	ATTRIBUTE SIGNIFIES CANDELA RATING CEILING MOUNT FIRE ALARM SPEAKER STROBE,	CEILING	(9) (11)
	ATTRIBUTE SIGNIFIES CANDELA RATING CEILING MOUNT FIRE ALARM HORN	CEILING	(9) (11)
(FD	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)
 F●	FIRE ALARM CHIME	AS NOTED	(9)
$\bowtie$	FIRE ALARM, LOW FREQUENCY, VISUAL	AS NOTED	(9)
	FIRE ALARM, LOW FREQUENCY, NON-VISUAL	AS NOTED	(9)
•	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED	
RM	RELAY MODULE		(9)
MM	MONITOR MODULE		(9)
СМ	CONTROL MODULE		(9)
PS	PRESSURE SWITCH		(9)
TS	TAMPER SWITCH		(9)
FS	FLOW SWITCH		(9)
IM	LOOP ISOLATION MODULE		(9)
XM	FIRE EXTINGUISHER MONITOR		(9)
A	FIRE RISER	SEE PLANS	
ANN	ANNUNCIATOR PANEL		(9)
NAC	NOTIFICATION APPLIANCE CONTROL PANEL		(15)
	FIRE ALARM PANEL, SURFACE	AS NOTED	(15)
	FIRE ALARM PANEL, RECESSED	AS NOTED	(15)
	CABLE TRAY		
	MAIN DISTRIBUTION POWER PANEL		
		6'-6" TO TOP	
		6'-6" TO TOP	
$\overline{\nabla}$	TELEPHONE OUTLET, SINGLE PORT TELEPHONE OUTLET, SINGLE OUTLET, CUSTOM HEIGHT	18"	(6)
 ▼	DATA OUTLET, DUAL PORT	18"	(6)
¥	DATA OUTLET, DUAL PORT, CUSTOM HEIGHT		(6)
	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
<u></u>	DUAL DATA AND SINGLE TELEPHONE PORT,		(6)
▼#	CUSTOM HEIGHT DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
·	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
T T	CEILING WI-FI ACCESS POINT, DUAL DATA PORT	CEILING	(17)
=	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	SECURITY PANEL, SURFACE	AS NOTED	
	SECURITY PANEL, RECESSED	AS NOTED	
MDF	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
IDF	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	
		,	

ATS AUTOMATIC TRANSFER SWITCH

SEE PLANS

YMBOL	ELECTRICAL SYMBOL SC DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS	SYMBOL	ELECTRICAL SYMBOL SC DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX			0	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
Ф ♥	STANDARD CONVENIENCE OUTLET	18"			2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
$\oplus$	CONVENIENCE OUTLET, GFCI	18"			2x4 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
● ●	STANDARD CONVENIENCE OUTLET, HOSPITAL	18"		•	2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
0 ⊕	STANDARD CONVENIENCE OUTLET, SWITCHED	18"			2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
† €	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT	48"UNLESS NOTED	(6)		2x2 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
∲ ∲	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT	48"UNLESS NOTED	(6)		RECESSED LIGHT FIXTURE	CEILING	
	CONVENIENCE OUTLET, ISOLATED GROUND	18"					(1) (3)
	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT, HOSPITAL	48"UNLESS	(6)			CEILING	(1) (3)
	CONVENIENCE OUTLET. FLOOR	NOTED FLOOR			RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
	CONVENIENCE OUTLET, CEILING	CEILING		0		CEILING	(1) (2)
	2 CIRCUITS TO EACH DEVICE	18"		0	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
		-		Ю	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
	COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR			WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
	DUPLEX OUTLET, POP-UP	COUNTERTOP			TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
۲	SPECIAL PURPOSE OUTLET			*	CEILING FAN	SUSPENDED	
$\heartsuit$	DIRECT CONNECTION TO EQUIPMENT			Ŵ	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
$\mathbb{O}_{D}$	CORD DROP OUTLET	SUSPENDED		o-[]	AREA LIGHT FIXTURE	POLE	(1) (2)
$\mathbb{O}_{CR}$	CORD REEL OUTLET	SUSPENDED		0	BOLLARD LIGHT	GROUND	
٢	POKE THRU, POWER	FLOOR		-6-	BOLLARD LIGHT, POLE TOP AREA LIGHT	POLE	(1) (2)
$\odot$	POKE THRU, POWER AND DATA	FLOOR		H N	EXIT SIGN, WALL, ARROW INDICATES DIRECTION	7'-6"	(1) (2) (4) (5)
00	POKE THRU, POWER AND DATA W/AV	FLOOR			EXIT SIGN, ARROW INDICATES DIRECTION	CEILING	(1) (4) (5)
₽	POWER/VOICE-DATA SERVICE POLE	AS NOTED			EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
DJU	DISTRIBUTION JUNCTION UNIT			P	PHOTO-ELECTRIC CELL	AS NOTED	(1)(2)
VFD	VARIABLE FREQUENCY DRIVE			P	POWER PACK	CEILING	
SPD	SURGE PROTECTION DEVICE						
0	JUNCTION BOX	AS NOTED	(12)	SP	SLAVE PACK	CEILING	
Ð	JUNCTION BOX. WALL	AS NOTED	(12)	MP	MINI POWER PACK	CEILING	
	JUNCTION BOX, FLOOR	FLOOR		RC	ROOM CONTROLLER	CEILING	
		FLOOR	(12)	ECU	EMERGENCY CONTROL UNIT	CEILING	
H© M	CLOCK OUTLET MANUAL MOTOR CONTROLLER SWITCH WITHOUT		(*)	•	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
S <sup>M</sup>	TERMINAL OVERLOAD PROTECTION			H	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
SP	SWITCH WITH PILOT LIGHT			⊣⊕≬	DUAL TECHNOLOGY VAC. SENSOR WITH DIMMER, WALL	AS NOTED	(7)
STH	MANUAL SWITCH WITH THERMAL OVERLOAD			Н®	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
s <sup>x</sup>	SINGLE POLE DOOR SWITCH			ŀ€Ì	DUAL TECHNOLOGY VAC. SENSOR SWITCH WITH DIMMER, 1-BUTTON	4'-0"	(7)
0	PUSH BUTTON SWITCH, SINGLE	AS NOTED		HÐ	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 2-BUTTON	4'-0"	(7)
00	PUSH BUTTON SWITCH, DOUBLE	AS NOTED			DAYLIGHT SENSOR	CEILING	
000	BUSH BUTTON SWITCH, TRIPLE	AS NOTED		•	PASSIVE INFRARED SENSOR	CEILING	
Ð	EMERGENCY POWER OFF (EPO) SWITCH			s	SINGLE POLE SWITCH	4'-0"	
	NON-FUSED DISCONNECT SWITCH		(13) (14)	s <sup>2</sup>	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
F	FUSED DISCONNECT SWITCH		(13) (14)	s s <sup>3</sup>	THREE WAY SWITCH	4'-0"	
	MAGNETIC STARTER		(13) (14)	S Sa	THREE WAY SWITCH THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE		
ď	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)		SWITCHING	4'-0"	
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)	s <sup>4</sup>	FOUR WAY SWITCH	4'-0"	
R	POWER RELAY		(13) (14)	ŜŜ	DUAL LEVEL SWITCH BANK	4'-0"	
				Ŝ	DIMMER SWITCH	4'-0"	
6		DOOF		Ŝ	LOW VOLTAGE SWITCH	4'-0"	
6	MOTOR OUTLET, ROOF MOUNTED	ROOF		sĸ	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
•	LIGHTNING PROTECTION AIR TERMINAL	ROOF		S <sup>T</sup>	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
$\bigcirc$	LIGHTNING PROTECTION BOND PLATE			TP	TOUCH PANEL	4'-0"	
	LIGHTNING PROTECTION GROUND ROD	GROUND		TC	TIME CLOCK	AS NOTED	
$\odot$	POKETHRU				LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	
$\oplus$	UTILITY POWER POLE	SEE PLANS			LIGHTING CONTROL PANEL, RECESSED	6'-6" TO TOP	
М	TRANSFORMER	SEE PLANS					<u> </u>
	TRANSFORMER	SEE PLANS					
G	EMERGENCY GENERATOR	SEE PLANS					
GAP	GENERATOR ANNUNCIATOR PANEL	SEE PLANS					
ATS	AUTOMATIC TRANSFER SWITCH	SEE PLANS	1				

### ELECTRICAL SHEET INDEX

NOTED.

EG001	ELECTRICAL NOTES & SYMBOLS
EG501	ELECTRICAL DETAILS
EG601	ELECTRICAL SCHEDULES
ED101	LEVEL 1 ELECTRICAL DEMOLITION PLANS
E101	LEVEL 1 ELECTRICAL PLANS

#### **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 SHALL BE MADE COMPLETE AND OPERABLE. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR

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 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. 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. 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. 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.

 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.

 ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
 LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY

 ILLUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
 ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT SOLELY FROM THE CEILING GRID

OR OTHER NONSTRUCTURAL MEMBER. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURE, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT AND

STARTING CHARACTERISTICS FOR ALL INSTALLED. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120/277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN)+1#12(CU,THHN)GND 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. 25. 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.

. 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.

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.

28. 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.

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

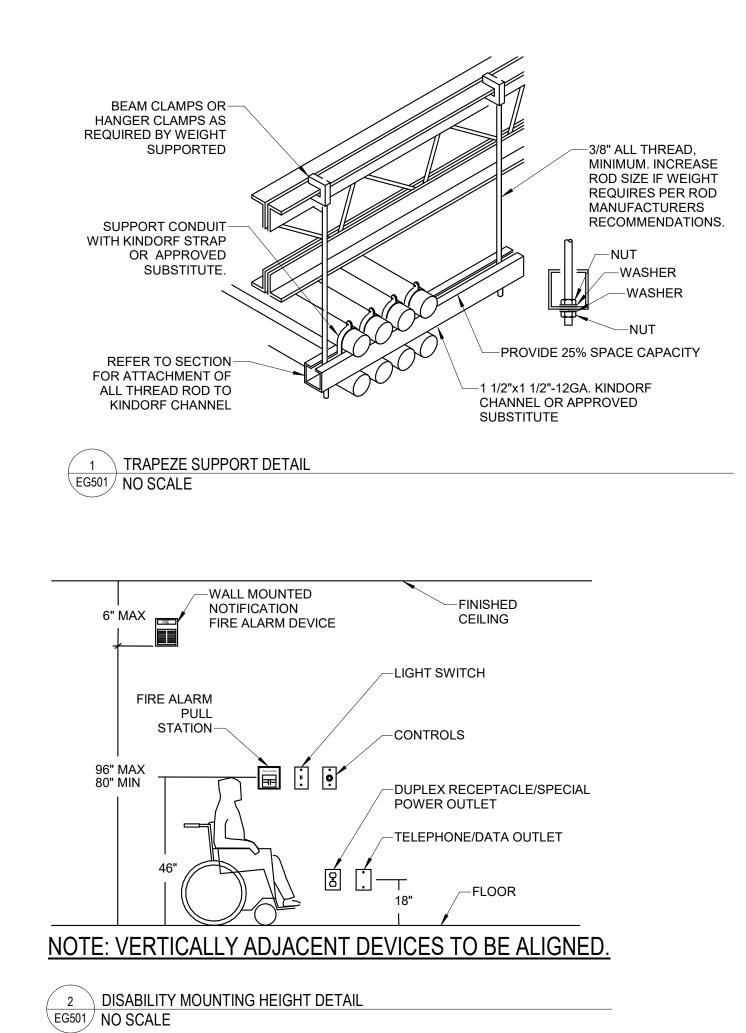
PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DATE DIRECTORY WITH PROJECT COMPLETION DATE.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

32. SUBMIT A SCALED LAYOUT (1/4" = 1') OF ALL ELECTRICAL ROOMS BASED ON THE ELECTRICAL GEAR AND EQUIPMENT SUBMITTALS.

 PROVIDE A CLEAR, TYPED LABEL ON THE FACEPLATE OF ALL RECEPTACLES AND LIGHT SWITCHES INDICATING THE CIRCUIT IT IS TIED TO. USE LABELING CONVENTION XX-xx, WHERE "XX" IS THE NAME OF THE PANEL AND "xx" IS THE BRANCH CIRCUIT NUMBER. LABELS LENGTH SHALL NOT EXCEED 1/4" ON EITHER SIDE OF TEXT.
 FUSED DISCONNECTS TO BE HEAVY DUTY.

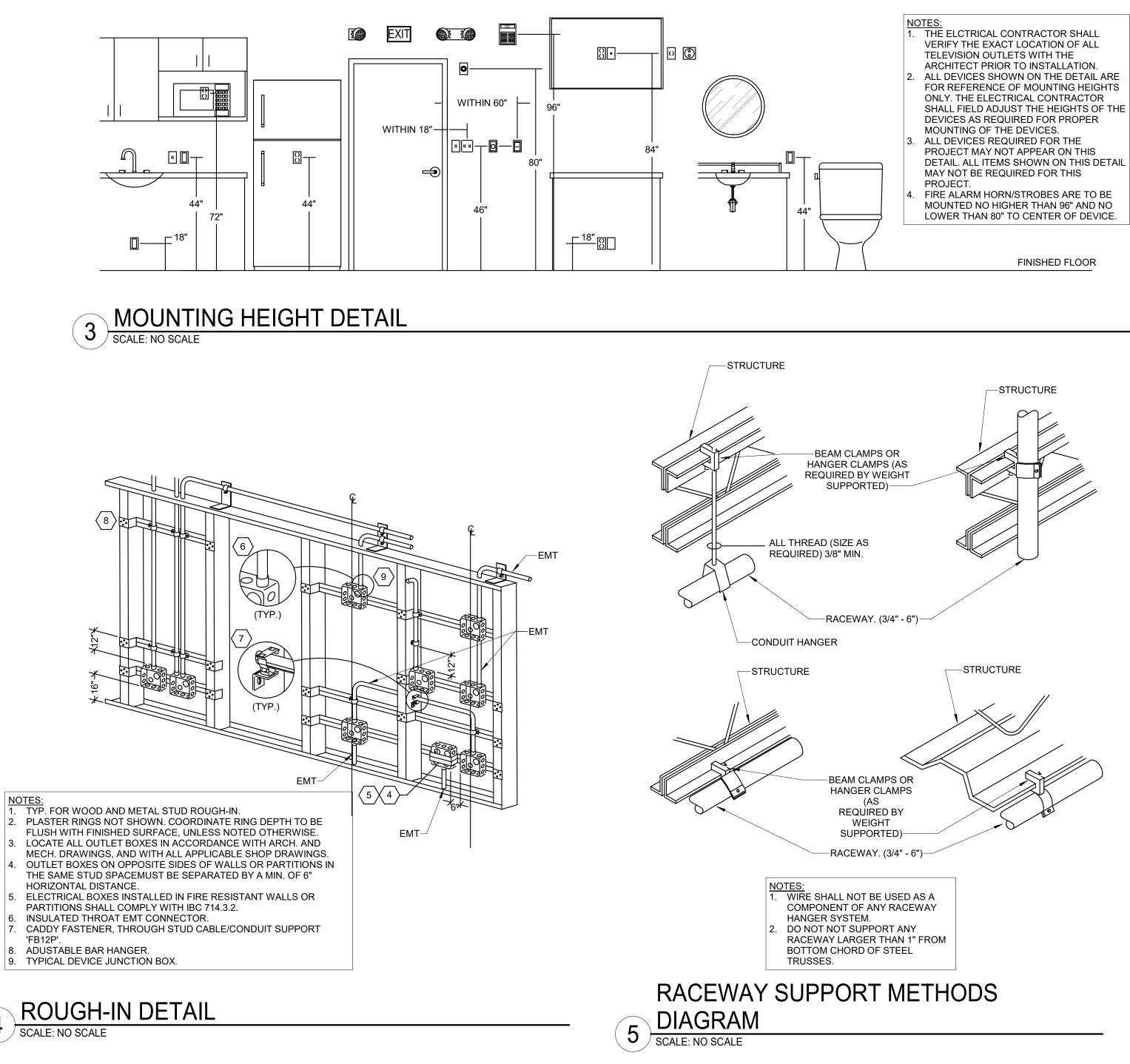
35. ALL TELECOMMUNICATIONS WIRING SHALL BE INSTALLED WITHIN CONDUIT UNLESS INSTALLED ABOVE ACCESSIBLE CEILINGS. MINIMUM CONDUIT SIZE FOR TELECOMMUNICATIONS CABLING SHALL BE 1-1/4" EMT, UNLESS OTHERWISE

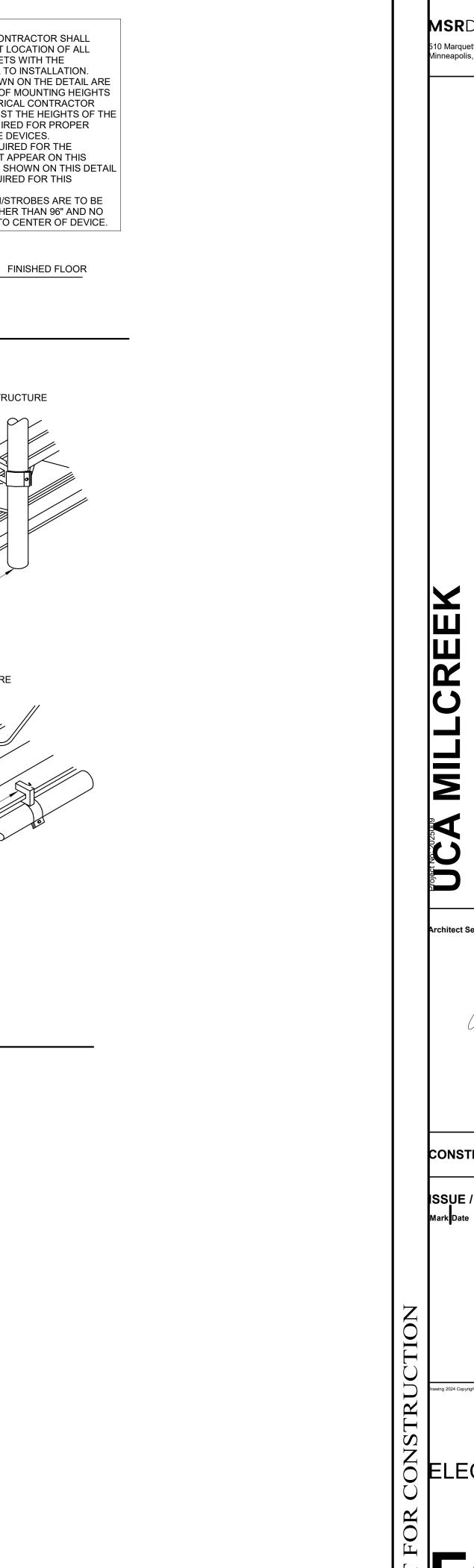
hitecture and Interiors **MSR**Design 10 Marquette Avenue South, Suite 200 nneapolis, MN 55402 | 612 375 0336 RESOLUT 181 E 5600 S, Murray, UT 84107 | (801) 530-3148 info@resolutgroup.com | resolutgroup.com Project #: 250296 \_\_\_\_ C Ш Ш  $\triangleleft$ 0 ſ 4 ഗ S S Σ 0 0 06  $\sim$ HE/ RE/ 336 E 84107 Architect Seal FESSI 9075170 LEWIS WONG 04/18/2025 CONSTRUCTION DOCUMENTS **SSUE / REVISION** ark Date Description 24 Copyright Meyer, Scherer & Rockcastle, Ltd. Z ELECTRICAL NOTES 8 SYMBOLS EG001



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chitecture and Interiors **MSR**Design 510 Marquette Avenue South, Suite 200 Minneapolis, MN 55402 | 612 375 0336 RESOLUT 181 E 5600 S, Murray, UT 84107 | (801) 530-3148 info@resolutgroup.com | resolutgroup.com Project #: 250296  $\supset$ CITY, Ш Ο 390( **REN** 336 E 336 E 3 Architect Seal ESSI Jo.-9075170 LEWIS WONG 04/18/2025 CONSTRUCTION DOCUMENTS **ISSUE / REVISION** Mark Date Description 4 Copyright Meyer, Scherer & Rockcastle, Ltd C ELECTRICAL DETAILS **EG501** 

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AC - 1	SPLIT UNIT	208	1	15.00MCA	12.0	1	2	12	12	3/4	20	C1	-	-	-	-	17B
OU - 1	OUTDOOR UNIT	208	1	15.00MCA	12.0	1	2	12	12	3/4	20	C1	30	2	20	-	1B
EP-1	PUMP	120	1	1.70FLA	1.7	1	2	12	12	3/4	20	C1	30	1	3	0	8B
BBREVIATION	NS:																
(W = KILOWAT	ITS		VA = VOL	T AMPERES			DISC =	-	-	CT		OCPD	= OVER	CURRE	NT PRC	TECTIVE	E DEVICE
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6. MAGNETIC S		TION				0000											
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	ED WITH LIGHTS																

16. LM-EB DISCONNECT W/CNTRL WIRING TO VFD

17. SPLIT SYSTEM. INDOOR UNIT FED FROM OUTDOOR UNIT. 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 AND ORDERING OF MATERIALS.

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TYPE         FXTURE DESCRIPTION         MANUFACTURER         CATALOG NUMBER           CND         222 RECESSED LED TROFFER FIXTURE.         COOPER         22223-32 UNV-L840-CD1-U           R1         PROVIDE A TRIM KIT FOR DRYWALL         COOPER         22223-32 UNV-L840-CD1-U           R2         PROVIDE A TRIM KIT FOR DRYWALL         COOPER         24C22-40-UNV-L840-CD1-U           R2         PROVIDE A TRIM KIT FOR DRYWALL         COOPER         24C22-40-UNV-L840-CD1-U           R2         PROVIDE A TRIM KIT FOR DRYWALL         COOPER         24C22-40-UNV-L840-CD1-U           UNDERCABINET         UNDERCABINET         WALL MOUNT FERDER FIXTURE.         PROVIDE A TRIM KIT FOR DRYWALL           U1         SWITCH FOR CONTROL WITH WHITE FINISH.         PURE EDGE         12L4RD-3W-30-40KZ-SCBA           UVDERCABINET         WALL MOUNT FERDINATE WITH ARCHITECT FOR         PURE EDGE         12L4RD-3W-30-40KZ-SCBA           BUCKE CORRUNATE         WITH ARCHITECT FINISH.         PURE EDGE         12L4RD-3W-30-40KZ-SCBA           BUCKE CORRUNATE         WITH ARCHITECT FOR         21L4RD-3W-30-40KZ-SCBA           BUCKE CORRUNATE         WITH ARCHITECT FOR         21L4RD-3W-30-40KZ-SCBA           BUCKE CORRUNATE         WITH ARCHITECT FOR         21L4RD-3W-30-40KZ-SCBA           LED MINI CYLINDER, WITH WHITE FINISH.         NORA				LUMINAIRE SCHED
GRID       22C22-32-UNV-L640-CD1-U         R1       PROVIDE A TRIM KIT FOR DRYWALL	TYPF	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER
EXARCESSED LED TROFFER FIXTURE.       Discussion and states		GRID 2X2 RECESSED LED TROFFER FIXTURE.		
EXARCESSED LED TROFFER FIXTURE.       Discussion and states		CRID		
UNDERCABINET STRIP LIGHT. ROCKER         Descent to the own           WITCH FOR CONTROL WITH WHITE FINISH.	R2	2X4 RECESSED LED TROFFER FIXTURE.		24CZ2-40-UNV-L840-CD1-U
UNDERCABINET STRIP LIGHT. ROCKER         Descent to the own           WITCH FOR CONTROL WITH WHITE FINISH.				
WALL MOUNT PENDANT WITH TENSION TURN BUCKLE CORRDINATE WITH ARCHITECT FOR FINISH COLOR.         Dick ECCL         Dick ECCL         Dick ECCL           PENDANT         NORA         NYLM-3C-40X-WW-LE4         Image: Color	U1	UNDERCABINET STRIP LIGHT. ROCKER	KENALL	AUCLED-I-MW-20L40K-48-120-SW
WALL MOUNT PENDANT WITH TENSION TURN BUCKLE CORRDINATE WITH ARCHITECT FOR FINISH COLOR.         Dick ECCL         Dick ECCL         Dick ECCL           PENDANT         NORA         NYLM-3C-40X-WW-LE4         Image: Color				
LED MINI CYLINDER, WITH WHITE FINISH. CABLE MOUNTED.         Interview of North Control Contecont Conteconte Control Control Control Control Control Control C	L1	WALL MOUNT PENDANT WITH TENSION TURN BUCKLE. CORRDINATE WITH ARCHITECT FOR	PURE EDGE	LZL-4RD-3W-30-40KZ-SCBA
LED MINI CYLINDER, WITH WHITE FINISH. CABLE MOUNTED.         Interview of North Control Contecont Conteconte Control Control Control Control Control Control C				
X1       EDGE LIT EXIT SIGN WITH SELF DIAGNOSTICS AND UNIVERSAL CHEVERON KIT. NI-CAD         BATTERY.	P1	LED MINI CYLINDER, WITH WHITE FINISH.	NORA	NYLM-3C-40X-WW-LE4
X1       EDGE LIT EXIT SIGN WITH SELF DIAGNOSTICS AND UNIVERSAL CHEVERON KIT. NI-CAD         BATTERY.				
Luminaire         Schedule         General Notes:           1         Refer to Luminaire description for fixture requirements. Manufactures model numbers may not be specific or complete. The contr mounting hardware and equipment for a complete installation.           2         Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and brin Fixtures shall match architectural ceiling types.           3         Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details Prior approval shall be required for all manufactures who are not listed on this schedule. The prior approvals shall be submitted to time cut-off shall not be reviewed or approved.           5         Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organizal specification. All information that does not apply to the fixture being submitted fixtures shall be listed in and addendum prior to bid approved listed fixtures. A verbal approval will not be given or approved by VBFA at any time.           7         Any additional time required to verify if submitted fixture meets all photometric requirements shall be paid by the agency requestir for approval indicating equivalency.           8         Color temperature for all interior luminaires shall be 4000K and 3000K for exterior luminaires unless noted otherwise in the sched 9           9         Verify exact fixture finishes with the architect prior to submittal.           10         Provide minimum 5 year warranty on all light fixtures.           <	X1	EDGE LIT EXIT SIGN WITH SELF DIAGNOSTICS AND UNIVERSAL CHEVERON KIT. NI-CAD	LITHONIA	LQM-S-W-3-G-120/277-EN-N-M6
<ol> <li>Refer to Luminaire description for fixture requirements. Manufactures model numbers may not be specific or complete. The contr mounting hardware and equipment for a complete installation.</li> <li>Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and brin Fixtures shall match architectural ceiling types.</li> <li>Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details Prior approval shall be required for all manufactures who are not listed on this schedule. The prior approvals shall be submitted to time cut-off shall not be reviewed or approved.</li> <li>Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organizal specification. All information that does not apply to the fixture being submitted shall be crossed out. The electrical engineer shall the Fixtures that have been reviewed and approved as equivalent to the specified fixtures shall be listed in and addendum prior to bid approved listed fixtures. A verbal approval will not be given or approved by VBFA at any time.</li> <li>Any additional time required to verify if submitted fixture meets all photometric requirements shall be paid by the agency requestin for approval indicating equivalency.</li> <li>Color temperature for all interior luminaires shall be 4000K and 3000K for exterior luminaires unless noted otherwise in the sched Verify exact fixture finishes with the architect prior to submittal.</li> <li>Provide minimum 5 year warranty on all light fixtures.</li> <li>LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life</li> <li>Lumens specified for fixtures with integral LEDs are total delivered fixture lumens</li> <li>Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lu lumin</li></ol>				
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<ul> <li>9 Verify exact fixture finishes with the architect prior to submittal.</li> <li>10 Provide minimum 5 year warranty on all light fixtures.</li> <li>11 LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life</li> <li>12 Luminaire shall be listed per NEC 410.6.</li> <li>13 Lumens specified for fixtures with integral LEDs are total delivered fixture lumens</li> <li>14 Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lu</li> <li>15 Provide IC rated housing for recessed fixtures in contact with insulation.</li> <li>16 Provide dimming wiring to accommodate dimming protocol specified on schedule for a complete dimmable system.</li> </ul>	7	Any additional time required to verify if submitted fixt		
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<ul> <li>Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lu luminaire is less than 1400 lumens.</li> <li>Provide IC rated housing for recessed fixtures in contact with insulation.</li> <li>Provide dimming wiring to accommodate dimming protocol specified on schedule for a complete dimmable system.</li> </ul>			rds with +50,000 hour	L70 lamp life
16 Provide dimming wiring to accommodate dimming protocol specified on schedule for a complete dimmable system.		Fixtures identified as emergency on the plans shall b		
		-		hedule for a complete dimmable system.
			•	

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VOLTS		TYPE	MOUNTING	DIMMING	VA
120-277	LUMENS: CRI: CCT:	LED 3200 80 4000K	RECESSED	0-10	24.2
120-277	LUMENS: CRI: CCT:	LED 4000 80 4000K	RECESSED	0-10	30.4
	LUMENS: CRI: CCT:	LED 2035 80 4000K	SURFACE	NA	22
	LUMENS: CRI: CCT:	LED 322LM/FT 90 4000K	SURFACE	0-10	99
	LUMENS: CRI: CCT:	LED 1948 90 4000K	SURFACE	0-10	23.2
	LUMENS: CRI: CCT:	GREEN	SURFACE	NA	5

ractor is responsible to provide complete fixtures as described on this schedule with all ng to the attention of the architect and electrical engineer any discrepancies prior to bid.

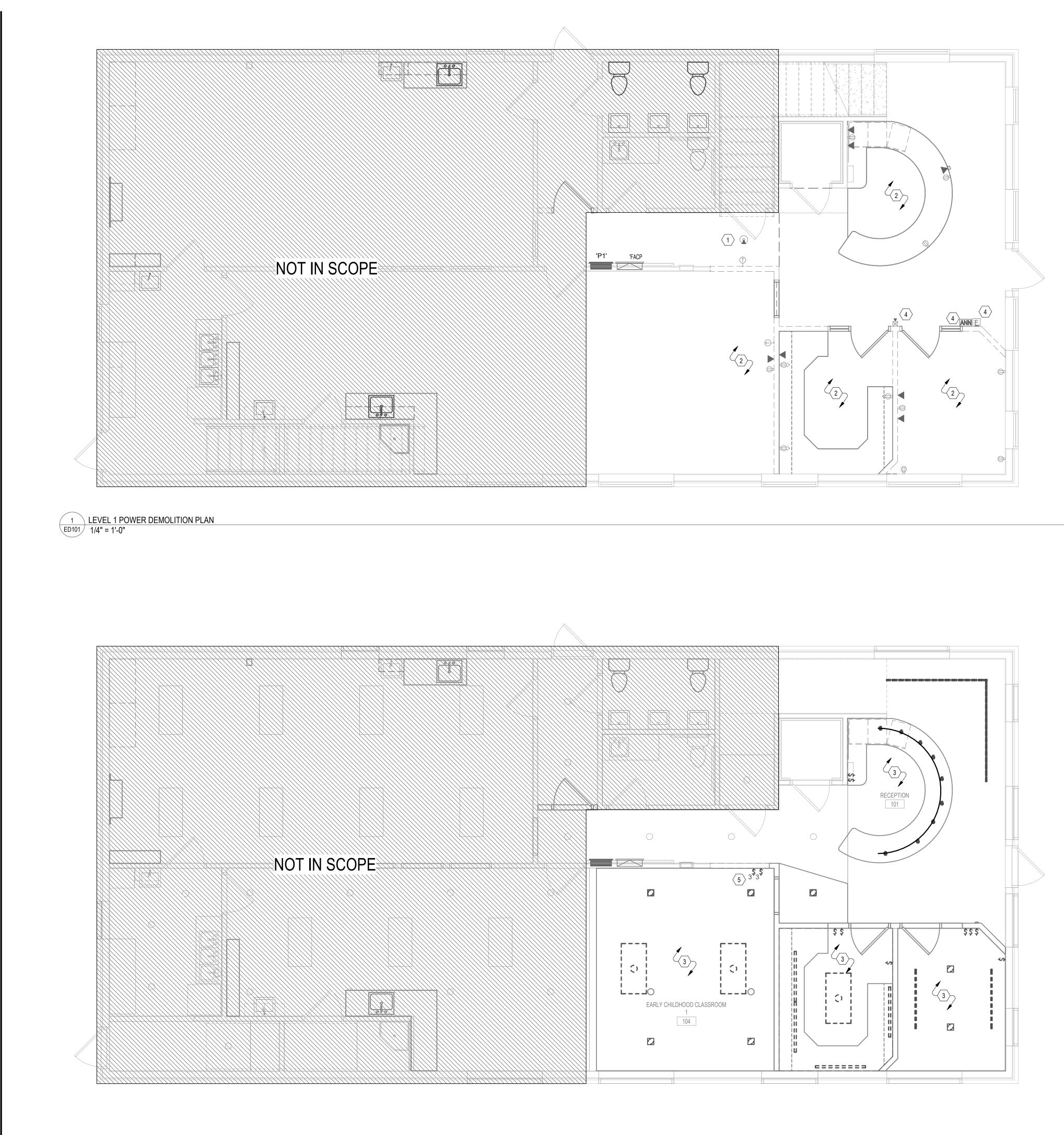
for additional requirements. Provide all pole bases as shown on the details. o the electrical engineer (7) working days prior to the bid. Prior approvals received after this

tion that is submitting for approval. Provide complete fixture submittals as listed in the be the final determination if the fixture is equivalent or not.

d. Light fixtures without prior approval are rejected and contractor shall base their bid on the ing approval. Photometric point-by-point plans may be required from the agency submitting dule.

umen output minimum for each emergency fixture or full lumen output if lumen output of

Architecture and Interiors **MSR**Design 510 Marquette Avenue South, Suite 200 Minneapolis, MN 55402 | 612 375 0336 RESOLUT 181 E 5600 S, Murray, UT 84107 | (801) 530-3148 info@resolutgroup.com | resolutgroup.com Project #: 250296  $\supset$ CITY, CREE **DN** T LAKE Ń SALT MIL S > s 3900 **UCA HEA REN** 336 E 39 84107 rchitect Seal FESSIC 9075170-ما LEWIS WONG 04/18/2025 CONSTRUCTION DOCUMENTS ISSUE / REVISION Mark Date Description Vrawing 2024 Copyright Meyer, Scherer & Rockcastle, Ltd. ELECTRICAL SCHEDULES NOY EG601





## **KEYED NOTES**

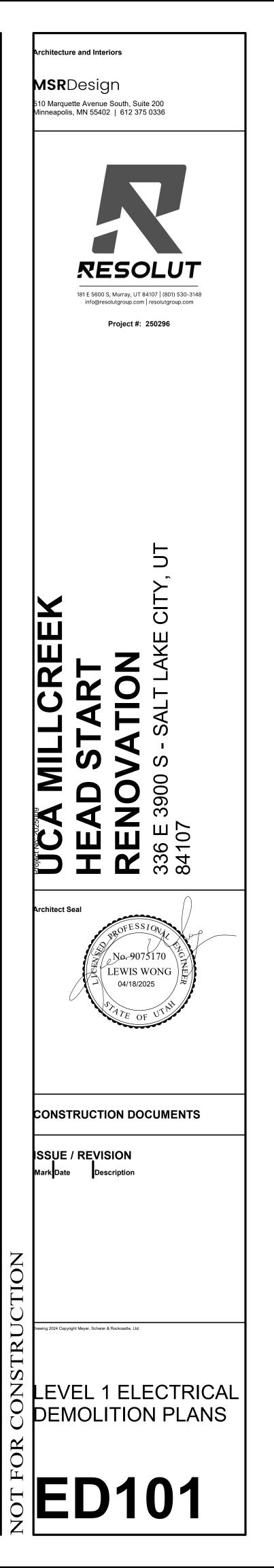
1. EXISTING DEVICE TO REMAIN. PROTECT AND MAINTAIN CIRCUIT INTEGRITY.

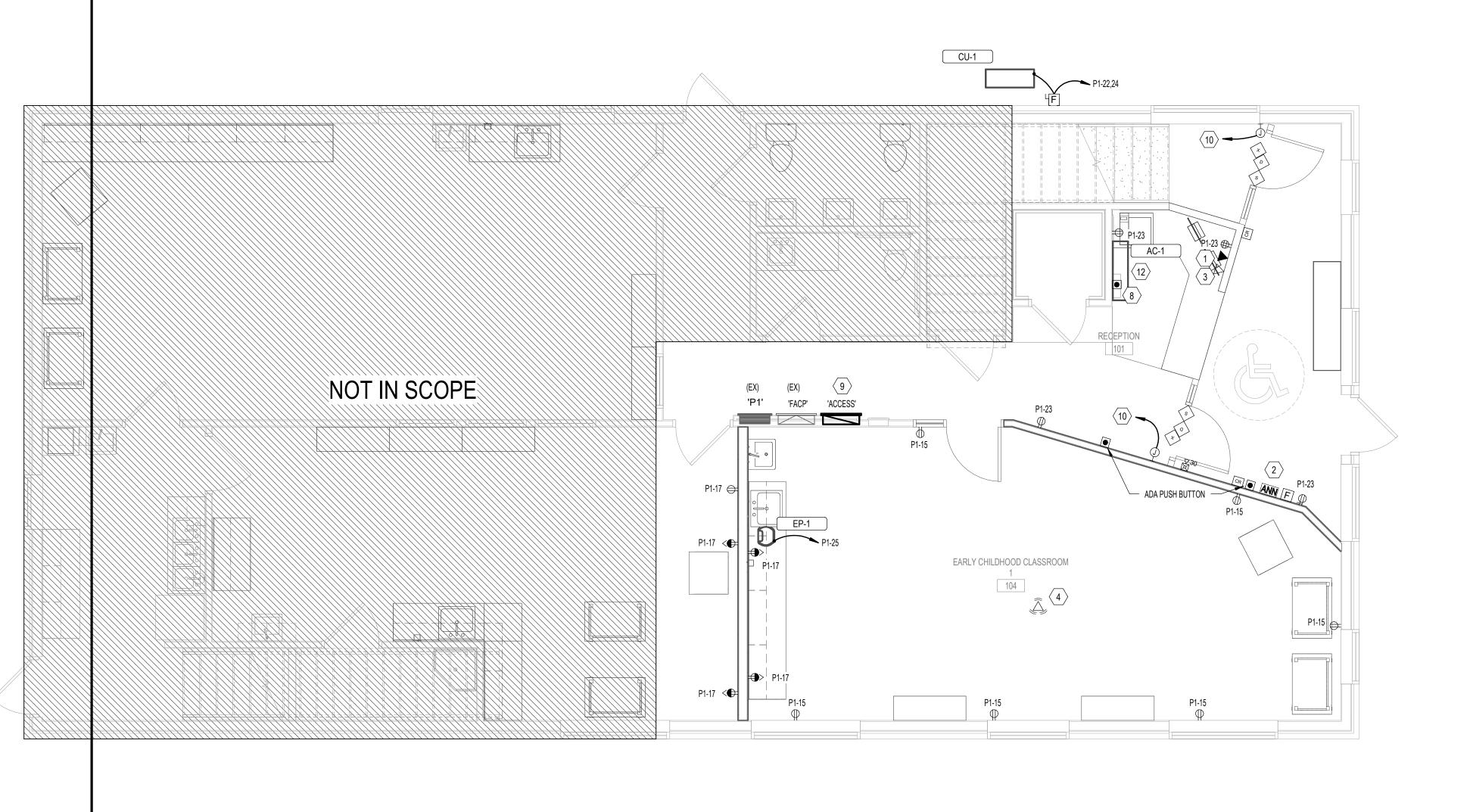
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- 2. DEMOLISH EXISTING DEVICE. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.
- 3. DEMOLISH EXISTING LIGHT FIXTURES. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES 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.
- 4. EXISTING DEVICE TO BE REMOVED AND REINSTALLED, EXTEND ALL CONDUCTORS AND CONDUIT AS REQUIRED.
- EXISTING THREE WAY SWITCHES TO BE REMOVED. EC SHALL REWORK LIGHTING IN EXISTING CLASSROOM TO BE CONTROLED USING THREE WAY SWITCHES AT EACH ENTRANCE.

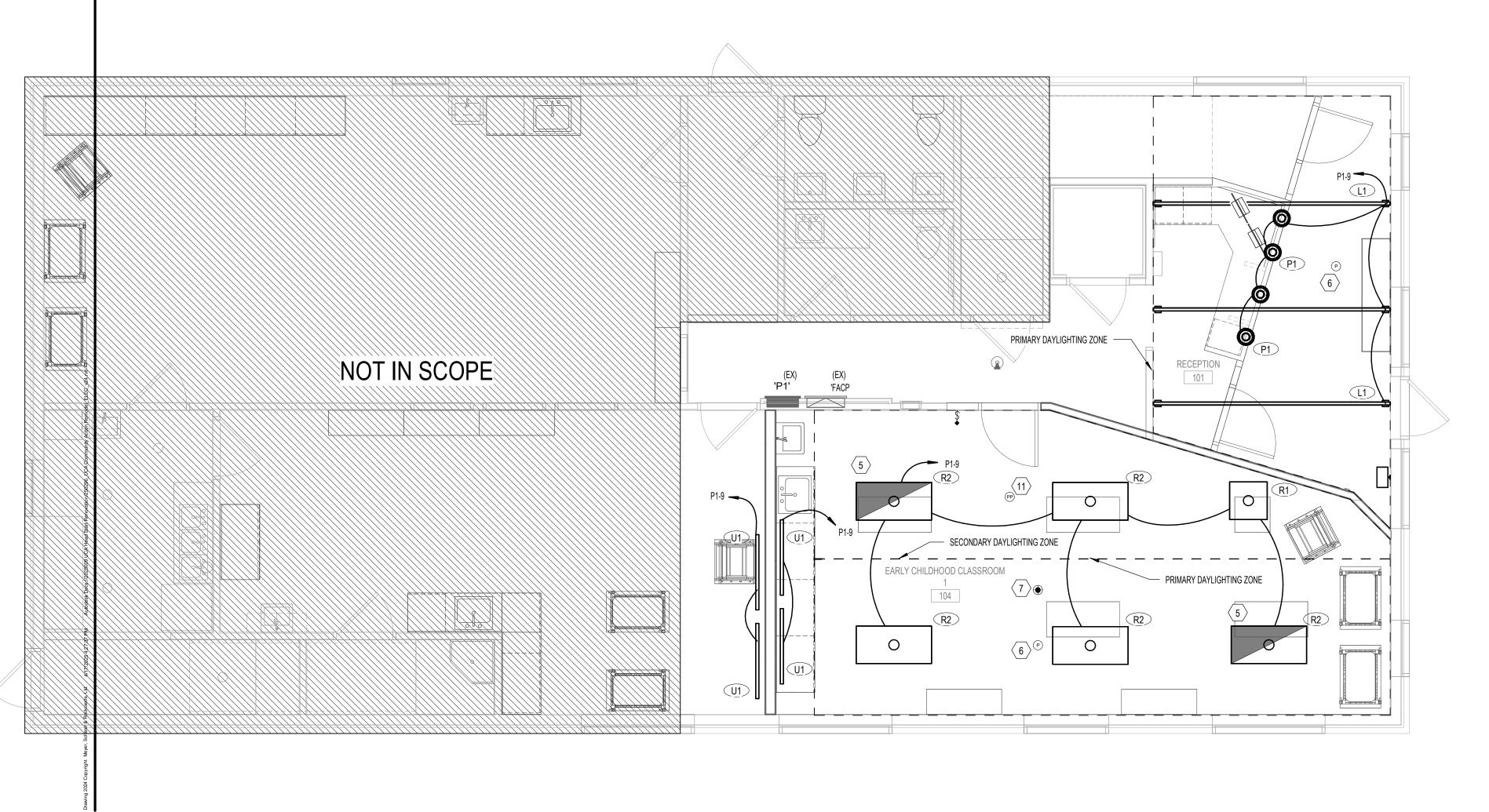
# **GENERAL NOTES**

- 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 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. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.





LEVEL 1 POWER PLAN 1/4" = 1'-0"



LEVEL 1 LIGHTING PLAN / 1/4" = 1'-0"

<pre>[]</pre>	
1.	INSTALL DEVICE IN MILI ROUGH-IN.
2.	RE-INSTALL FIRE ALARI RECONNECT.
3.	FURNISH AND INSTALL Gang Mud Ring and R Space. Locate J-Box
4.	PROVIDE FLUSH MOUN
5.	PROVIDE AN EMERGEN DELIVER 1400 LUMENS CONTROL DEVICE POSI SWITCHING DEVICE TO FIXTURE OPERATION.
6.	FURNISH AND INSTALL SUFFICIENT DAYLIGHT FOOTCANDLE THRESHO PACKS, ETC. AS NEEDE
7.	FURNISH AND INSTALL CONTROL THE LIGHTIN COVERAGE PROVIDE A

- COMPLETE INSTALLATION.
- POWER.
- LIGHTING IN CLASSROOM.

- TECHNOLOGY.

- LIGHTING FOR THAT SPACE.
- CONDITIONS. INDICATED ON THE PLANS.
- ON THE ELECTRICAL EQUIPMENT SCHEDULE. PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.

## EYED NOTES

ILLWORK. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO

RM ANNUNCIATOR. EXTEND EXISTING 120V POWER AND

L A 4"X4"X2-3/8" J-BOX FOR TELE/DATA OUTLETS. PROVIDE A SINGLE O RUN A 1" CONDUIT FROM J-BOX TO NEAREST ACCESSIBLE CEILING X WITHIN 12" OF DUPLEX OUTLET.

NTED J-BOX IN CEILING FOR WIRELESS ACCESS.

ENCY BATTERY PACK FOR EMERGENCY LIGHTS. FIXTURE SHALL MINIMUM UPON COMMERCIAL POWER FAILURE REGARDLESS OF SITION. RUN AN UNSWITCHED HOT CONDUCTOR AHEAD OF THE THE BATTERY PACK FROM THE SAME CIRCUIT AS NORMAL

L A PHOTOCELL TO DIM THE LIGHTS INDICATED IN THE SPACE WHEN IS PRESENT. COORDINATE WITH OWNER/ARCHITECT FOR HOLD REQUIREMENTS. PROVIDE CONDUIT, CONDUCTORS, POWER DED FOR A COMPLETE INSTALLATION.

L A CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR TO NG IN THE SPACE. LOCATE SENSOR IN SPACE FOR MAXIMUM COVERAGE. PROVIDE ADDITIONAL SENSORS AS NEEDED. SENSOR MANUFACTURER TO PROVIDE A LAYOUT SHOWING ADEQUATE COVERAGE OF EACH SPACE. IN AREAS WHERE MORE THAN ONE SENSOR IS NEEDED, DETECTION OF ANY OCCUPANCY BY ANY SENSOR IN THE SPACE WILL TURN LIGHTS ON IN THAT SPACE. INSTALL SENSOR A MINIMUM OF 3 FEET FROM DIFFUSER. PROVIDE CONDUIT, CONDUCTORS, POWER PACKS, ETC. FOR A

8. EC SHALL FURNISH AND INSTALL BUTTON AT RECEPTION DESK FOR RECEPTIONIST TO UNLOCK EITHER DOOR TO ALLOW ACESS USING THE ADA PUSH BUTTON OR WITHOUT CARD ACCESS. BOTH DOORS SHALL FAIL OPEN IN THE LOSS OF POWER.

9. EC SHALL FURNISH AND INSTALL A NEW ACCESS CONTROL PANEL CIRCUIT TO 120V

10. EC SHALL FURNISH AND INSTALL POWER SUPPLY WITH A 120V CONNECTION AND MAKE ALL NECCESSARY CONNECTIONS FOR DOOR CONTACTS.

11. EC SHALL PROVIDE AND INSTALL ALL NECCESSARY POWER PACKS REQUIRED FOR

12. INDOOR SPLIT UNIT POWERED FROM OUTDOOR UNIT, EC TO MAKE ALL CONNECTIONS NECCESSARY FOR A COMPLETE INSTALLATION.

# **GENERAL NOTES**

A. CIRCUIT EXIT AND EMERGENCY LIGHTS TO THE SAME CIRCUIT FEEDING THE LIGHTING IN THE AREA. RUN AN UNSWTICHED HOT CONDUCTOR UPSTREAM OF THE RELAY, POWER PACK, OR SWITCH TO EXIT AND EMERGENCY LIGHT FIXTURES.

AREAS SHOWING OCCUPANCY/VACANCY SENSORS IDENTIFY SPACES WHERE THE LIGHTS IN THE SPACE ARE TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS AND DO NOT NECESSARILY INDICATE EXACT QUANTITIES AND PLACEMENT. THE CONTRACTOR IS TO COORDINATE WITH THE LOCAL MANUFACTURER'S REPRESENTATIVE FOR EXACT LOCATIONS AND QUANTITIES FOR A 90% MINIMUM COVERAGE OF THE SPACE. PROVIDE APPROPRIATE TYPE TO MATCH CEILING HEIGHT APPLICATION. PROVIDE RELAYS, POWER PACKS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL SENSOR(S) A MINIMUM OF 3 FEET FROM DIFFUSERS. ALL OCCUPANCY SENSORS SHALL BE DUAL-

DAYLIGHT RESPONSIVE CONTROL PHOTOCELLS TO ACTIVATE FOR A LIGHT FIXTURE THAT IS ON IN THE PRIMARY OR SECONDARY DAYLIGHT ZONE, INCULDING NIGHTLIGHTS, WHEN SUFFICIENT DAYLIGHT IS PRESENT. PROVIDE ADDITIONAL ZONES, POWER PACKS, ETC. AS REQUIRED TO AUTOMATICALLY DIM LIGHTS IN DAYLIGHT ZONES AND MEET SWITCHING REQUIREMENTS. PROVIDE ADDITIONAL ZONES, POWER PACKS, ETC AS REQUIRED TO ACCOMMODATE SWITCHING INDICATED AND DAYLIGHT HARVESTING ZONES. D. LIGHTING CALLOUTS ARE TYPICAL FOR OTHER LIGHTS IN THE ROOM OF THE SAME

LUMINAIRE SYMBOL UNLESS INDICATED OTHERWISE. E. EMERGENCY EGRESS LIGHTS SHALL BE WIRED SUCH THAT WHEN COMMERCIAL POWER FAILS, EACH LIGHT WILL DELIVER A MINIMUM OF 1400 LUMENS OR ITS MAXIMUM LUMEN OUTPUT REGARDLESS OF THE POSITION OF THE CONTROL DEVICE. RUN AN UNSWITCHED HOT CONDUCTOR AHEAD OF THE SWITCHING DEVICE TO THE BATTERY PACK/GENERATOR TRANSFER DEVICE FROM THE SAME CIRCUIT AS NORMAL FIXTURE OPERATION. LIGHTS TO BE SWITCHED AS SHOWN DURING NORMAL OPERATION. F. PROVIDE DIMMING WIRING FOR SPACES WHERE DIMMERS ARE SHOWN TO CONTROL

G. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK. H. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.

I. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING J. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT IN FINISHED SPACES SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS UNLESS OTHERWISE

K. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. L. PROVIDE UPDATED TYPED CIRCUIT DIRECTORY WITH UNIQUE CIRCUIT DESCRIPTIONS PER NEC 408.4 FOR PANELS AFFECTED BY THIS PROJECT.

M. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN. N. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO BREAKERS. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE

O. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND

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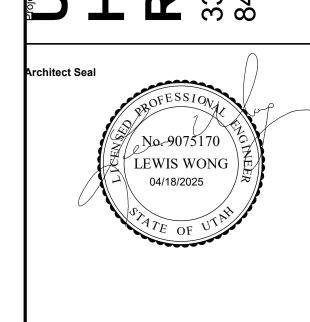


Project #: 250296

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CONSTRUCTION DOCUMENTS

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