

LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A1		2X4 LED FLAT PANEL. 26W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A1E		2X4 LED FLAT PANEL. 26W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A2		2X4 LED FLAT PANEL. 36W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A2E		2X4 LED FLAT PANEL. 36W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A3		2X4 LED FLAT PANEL. 45W, 6000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A3E		2X4 LED FLAT PANEL. 45W, 6000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 AL08 80CRI SSW7 SWL MVOLT
A4		2X2 LED FLAT PANEL. 35W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X2 AL07 80CRI SSW7 SWL MVOLT
C		6" LED RECESSED LED DOWNLIGHT. 13W, 1000 LUMEN, 3500K CCT. 0-10V DIMMING.	LITHONIA	LBR6 NCH AL02 SSW1 AR LSS WD MVOLT UG2
CE		6" LED RECESSED LED DOWNLIGHT. 13W, 1000 LUMEN, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITON	LBR6 NCH AL02 SSW1 AR LSS WD MVOLT UG2
EX		LED EXIT SIGN, STAINLESS STEEL FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, PROVIDE WITH UL924 DEVICE.	LIFE SAFETY LIGHTING	LSXDC 3 R A A EM SDT
P1		3" CIRCULAR LED PENDANT. 78W, 6500 LUMENS, 3500K CCT. 0-10V DIMMING.	DELRAY	UDC3 W35 SR D
P2		6" CIRCULAR LED PENDANT. 156W, 13,000 LUMENS, 3500K CCT. 0-10V DIMMING.	DELRAY	UDDC6 W35 SR D
P2E		6" CIRCULAR LED PENDANT. 156W, 13,000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	DELRAY	UDDC6 W35 SR D
S		4" LED LENSED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING.	LITHONIA	CSS L48 AL03 MVOLT SSW3 80CRI
SE		4" LED LENSED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CSS L48 AL03 MVOLT SSW3 80CRI
T		4" LED VAPOR TIGHT STRIP FIXTURE. 42W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING.	LITHONIA	CSVT L48 AL03 MVOLT SSW3 80CRI
TE		4" LED VAPOR TIGHT STRIP FIXTURE. 42W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CSVT L48 AL03 MVOLT SSW3 80CRI
V		2" LED VANITY FIXTURE. 9W, 300 LUMENS/FT DIRECT AND INDIRECT, 3500K CCT. 0-10V DIMMING.	MARK LIGHTING	S2WID LLP 2FT MSL2 80CRI 35K 300LMF 180 I35K I300LMF AS SCT MIN10 FL MVOLT WHTT ZT
W1E		2400 LUMEN, 4000K CT, LED WALL PACK PROVIDE WITH UL924 DEVICE.	LITHONIA	WPX1 LED P2 40K MVOLT DBLXD
W2E		4" LED EXTERIOR FIXTURE 533 LUMENS/FT, 4000K CCT. MULLION MOUNT PROVIDE WITH UL924 DEVICE.	A-LIGHT	LIN 3 SP M4 LS 40 U HE M.5 X D ES

GENERAL NOTES:
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
ANNC	ANNUNCIATOR	MDP	MAIN DISTRIBUTION PANEL
CC	CONTROLS CONTRACTOR	MLO	MAIN LUG ONLY
DF	DRINKING FOUNTAIN	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	OCC	OCCUPANCY
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH	PC	PLUMBING CONTRACTOR
EX	EXISTING	PNL	PANEL
EXR	EXISTING RELOCATED	SPST	SINGLE POLE SINGLE THROW
GC	GENERAL CONTRACTOR	TIB	TELEPHONE TERMINAL BOARD
GF	GROUND FAULT INTERRUPT	TYP	TYPICAL
HP	HORSEPOWER	WG	WIRE GUARD
IBC	INTERNATIONAL BUILDING CODE	WP	WEATHER PROOF
IG	ISOLATED GROUND	20A	20 AMP
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND	Ø	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVPR	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

SWITCH LEGEND

SYMBOL	DESCRIPTION
\$	20A, SPST SWITCH
\$ _a	20A, LETTER INDICATES GROUP
\$ ₃	20A, 3-WAY
\$ ₄	20A, 4-WAY
\$ _D	DIMMER SWITCH
\$ _K	KEY OPERATED SWITCH
\$ _{OC}	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

RECEPTACLE SCHEDULE

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE
	RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
	GFCI RECEPTACLE
	GFCI RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	20A, 120V, 2P, 3W GROUNDING DUPLEX GFCI RECEPTACLE - WEATHER PROOF (IN USE COVER)
	JUNCTION BOX, AS NOTED
	QUADPLEX RECEPTACLE

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES

- CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
- ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.G. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
- SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
- INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
- UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
- ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL LEGEND

	PANEL BOARD
	DISTRIBUTION PANEL BOARD
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

ELECTRICAL SHEET INDEX

E000	ELECTRICAL TITLE SHEET
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
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E203	ELECTRICAL KITCHEN PLAN
E401	ELECTRICAL ONE-LINE DIAGRAM
ES01	ELECTRICAL DETAILS SHEET
ES02	ELECTRICAL DETAILS SHEET
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES

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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



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CHILD CARE FACILITY
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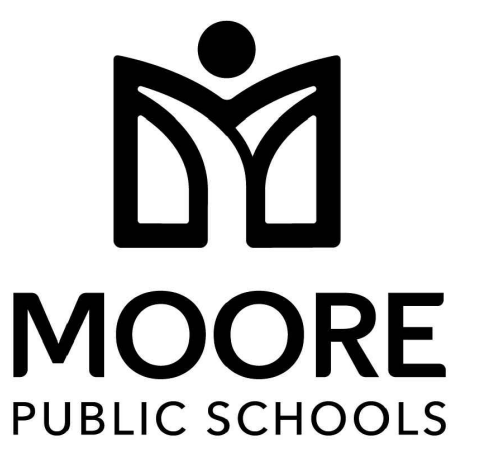
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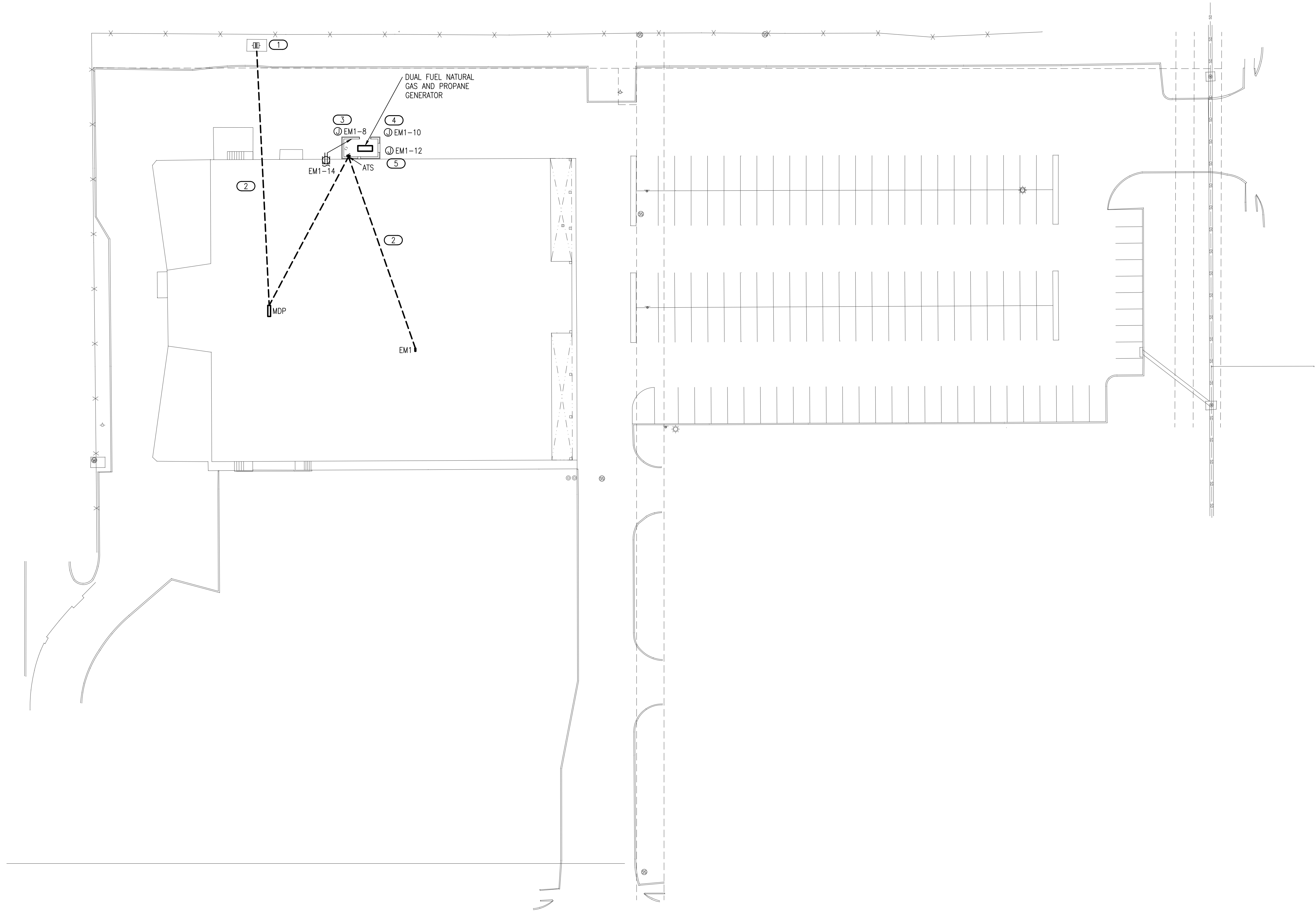
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SITE GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
- PROVIDE (2) ELECTRONIC TIMERS WITH INTEGRAL ASTRONOMICAL TIMECLOCK AND PHOTOCELL INPUT. LOCATE PHOTOCELL WITH CLEAR VIEW OF NORTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. ONE TIMER SHALL CONTROL EXTERIOR WALL PACKS AND THE OTHER SHALL CONTROL THE PARKING LOT.
- THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. CONSULT WITH GENERAL CONTRACTOR FOR DETAILS ON BIDDING; PROVIDE ALL PARTS AND LABOR FOR A COMPLETE AND CODE COMPLIANT FACILITY.
- ELECTRICAL CONTRACTOR TO SHOW ACTUAL ROUTING OF ALL BELOW-GRADE CONDUITS AND WIRING ON AS-BUILT DRAWINGS. ROUTES SHOWN ARE GENERAL IN NATURE AND ACTUAL ROUTE SHALL BE DETERMINED BY GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR ONSITE.
- PROVIDE GROUNDING AND BONDING AT EACH BUILDING IN ACCORDANCE WITH NEC 250.32.
- REFER TO SHEET "T-XXX" FOR ADDITIONAL CONDUIT LAYOUT INFORMATION.

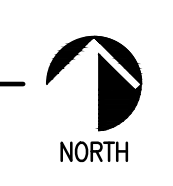
KEYED NOTES

- EXISTING 208/120V 3P UTILITY TRANSFORMER.
- PROPOSED CONDUIT ROUTE. SAW CUT CONCRETE AS NECESSARY TO ENSURE CONDUIT IS ROUTED UNDER THE EXISTING CONCRETE FOUNDATION.
- PROVIDE 120V GENERATOR BLOCK HEATER CONNECTION.
- PROVIDE 120V GENERATOR BATTERY HEATER CONNECTION.
- PROVIDE 120V GENERATOR BATTERY CHARGER CONNECTION.



1 ELECTRICAL SITE PLAN

SCALE: 1/32" = 1'-0"



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GENERAL NOTES

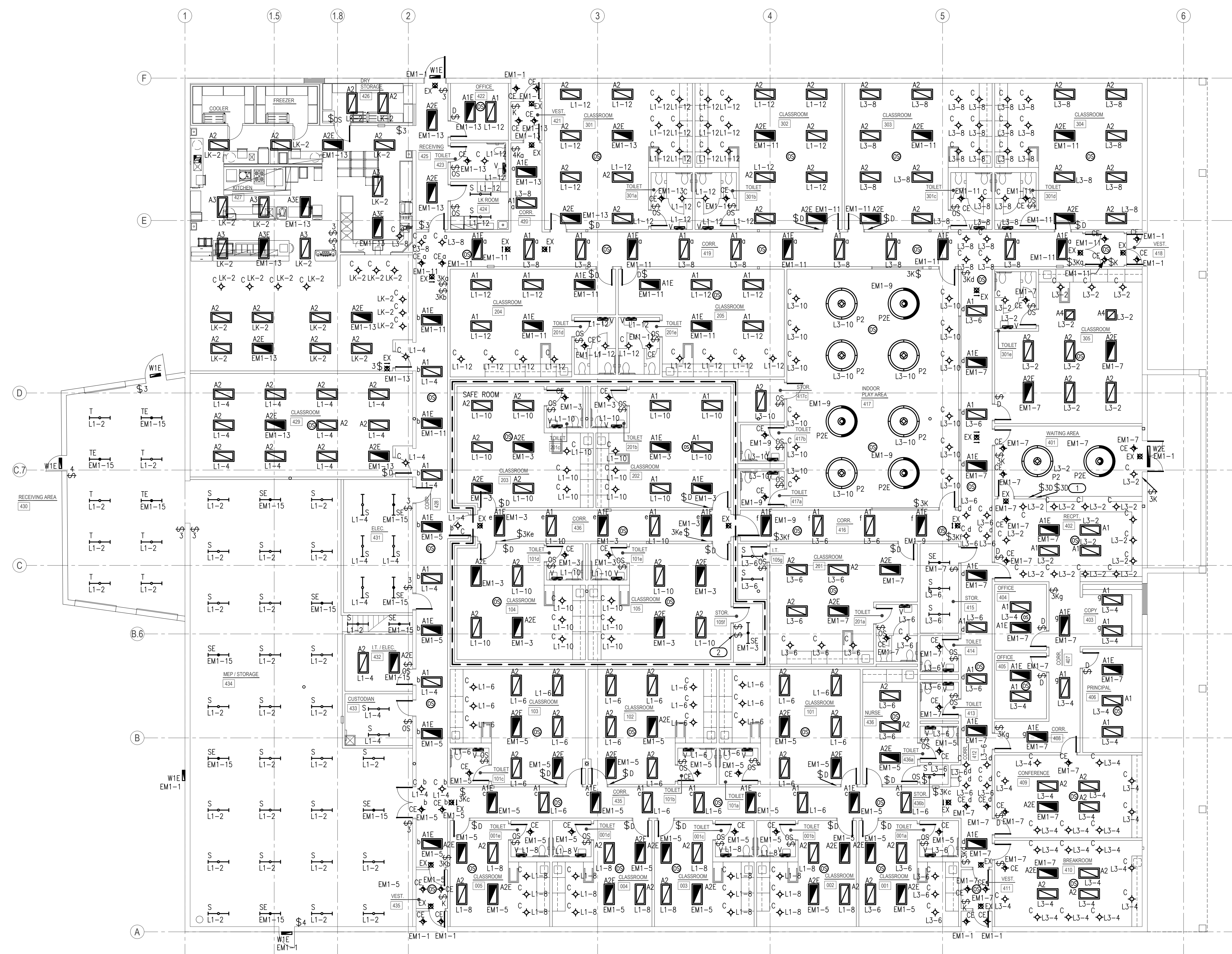
- OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
- COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
- COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
- LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
- COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.
- PROVIDE ELECTRONIC TIMER WITH INTEGRAL ASTRONOMICAL TIME CLOCK AND PHOTO CELL INPUT. LOCATE PHOTO CELL WITH CLEAR VIEW OF NORTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. TIMER SHALL CONTROL EXTERIOR LIGHTING.

SAFEROOM GENERAL NOTES

- PER ICC 500-2014, 309.1:
- PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
- 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
 - 2 1/16" IN DIAMETER
- SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

- LIGHT SWITCH FOR 'WAITING AREA 401' LIGHT FIXTURES.
- SUPPLY VENTILATION FAN SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.



1 ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"



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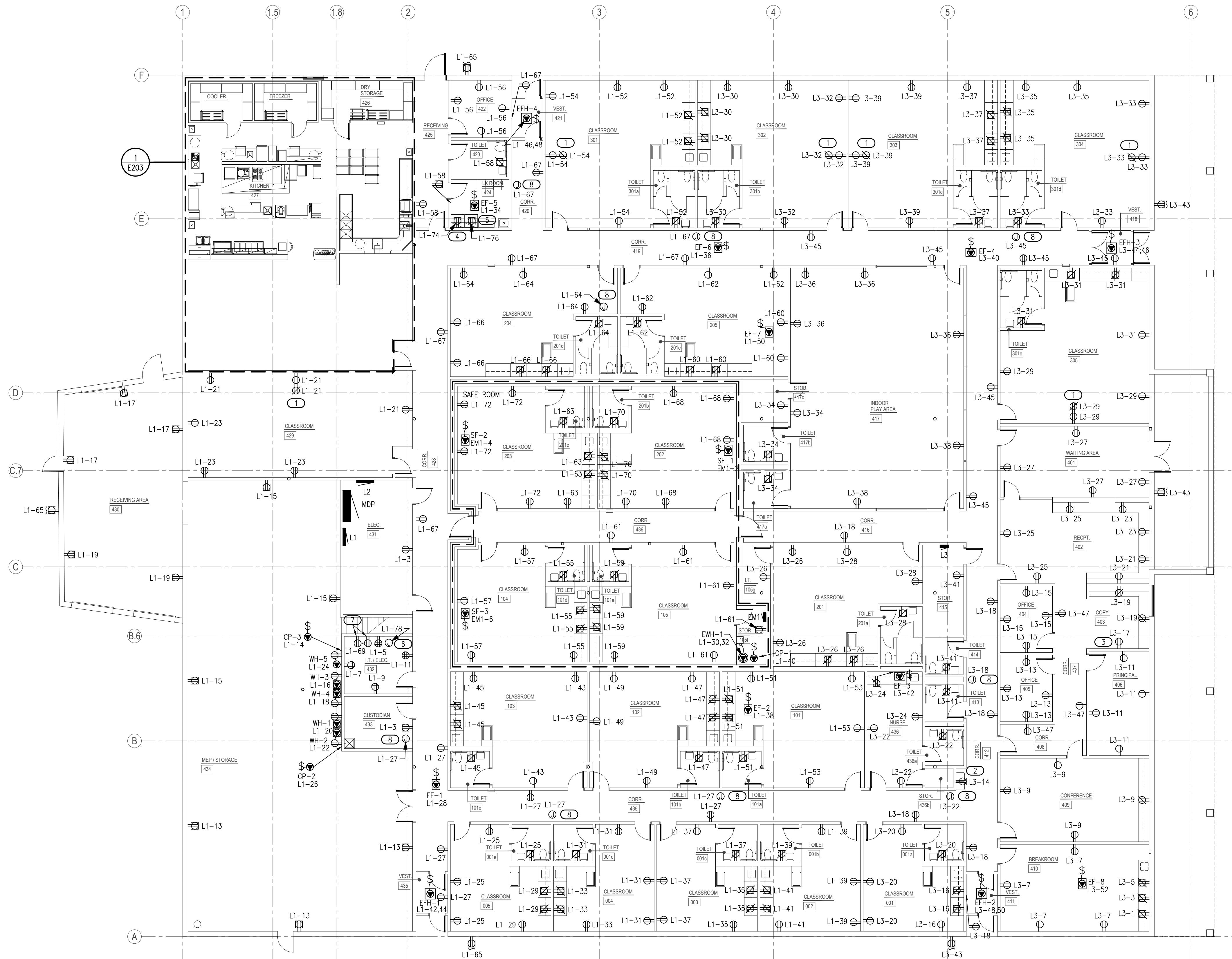
- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
- COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
- FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION

SAFEROOM GENERAL NOTES

- PER ICC 500-2014, 309.1:
PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

- PROVIDE 120V CONNECTION FOR SMARTBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN. REFER TO DETAIL '9/E501' FOR ADDITIONAL INFORMATION.
- PROVIDE 120V WATER COOLER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, PLUMBING CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V COPY MACHINE DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V GAS DRYER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE 120V WASHER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE 120V FIRE ALARM CONTROL PANEL. DEDICATED CONNECTION. COORDINATE RECEPTACLE TYPE AND LOCATION WITH FIRE ALARM CONTRACTOR.
- PROVIDE 120V TELECOM EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.



1 ELECTRICAL POWER PLAN
SCALE: 3/32" = 1'-0"



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GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER DEVICES.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
4. FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES WHETHER STAND-ALONE OR INTEGRAL TO A UNIT, MAY BE OMITTED SO LONG AS ALL OF THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.

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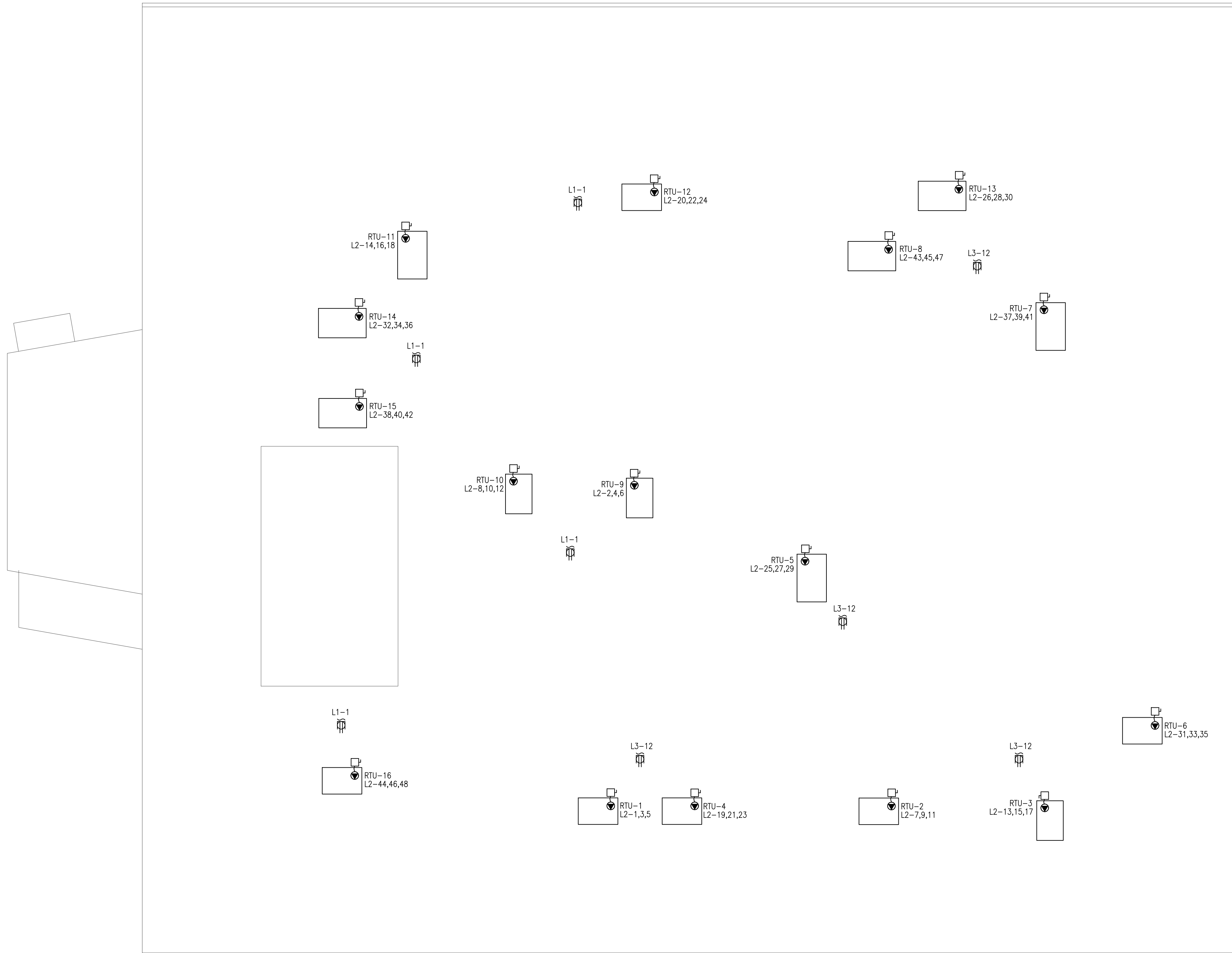
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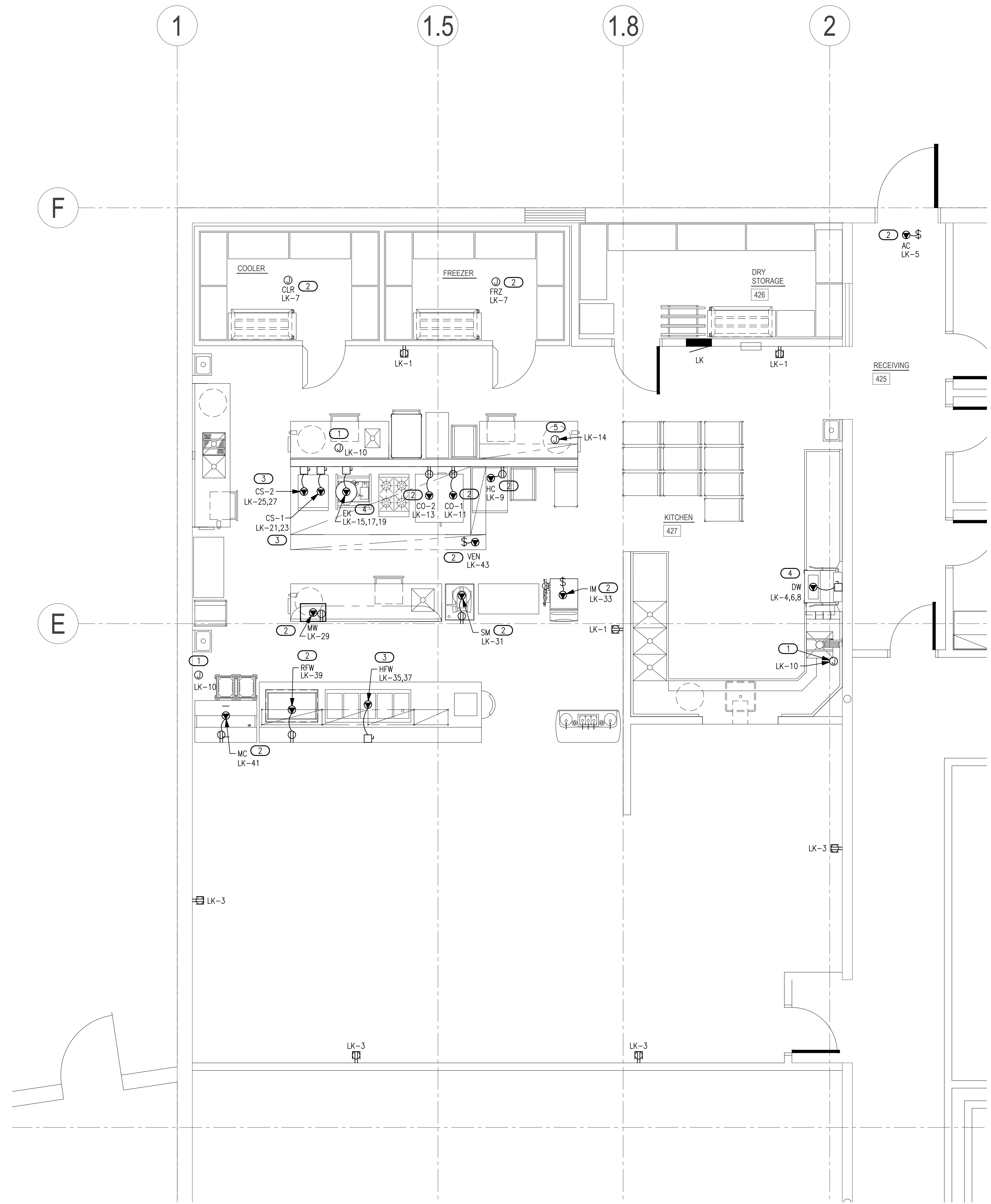


1 ELECTRICAL ROOF PLAN

SCALE: 3/32" = 1'-0"



NORTH



- ### KITCHEN GENERAL NOTES
- COORDINATE KITCHEN/FOODSERVICE EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, MANUFACTURER, AND FOOD SERVICE CONTRACTOR PRIOR TO BEGINNING WORK. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
 - COORDINATE KITCHEN HVAC EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, MECHANICAL CONTRACTOR, AND ALL OTHER ASSOCIATED TRADES PRIOR TO ROUGH-IN. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
 - COORDINATE KITCHEN PLUMBING EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, PLUMBING CONTRACTOR, AND ALL OTHER ASSOCIATED TRADES PRIOR TO ROUGH-IN. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
 - E.C. SHALL COORDINATE WITH OWNER, KITCHEN EQUIPMENT PROVIDER, AND OTHER TRADES PRIOR TO ROUGH IN TO ENSURE ALL ROUGH IN LOCATIONS ARE CONCEALED IN THE WALL AND STUBBED OUT IN THE PROPER LOCATIONS.
 - GFCI PROTECTION REQUIRED FOR ALL 120V 15 AND 20A RECEPTACLES, BY GFCI FUNCTION ON BREAKER OR RECEPTACLE, PER NEC 210.8 (B) (2).
 - HOOD STAND ALONE FIRE SUPPRESSION SYSTEM SHALL HAVE INPUT TO BUILDING FIRE ALARM SYSTEM.
 - PROVIDE A 20 A. MP, 1 HP, 120V POWER SUPPLY FOR KITCHEN EXHAUST FAN ANSUL SYSTEM. THE ACTIVATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL AND ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT UNDER THE KITCHEN HOOD. THE FUEL AND ELECTRICAL POWER SUPPLY RESET SHALL BE MANUAL. SHUNT TRIP CIRCUIT BREAKERS SHALL BE USED FOR ELECTRICALLY SUPPLIED APPLIANCES LOCATED UNDER THE HOOD.

- ### KEYED NOTES
- PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
 - PROVIDE 120V CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - PROVIDE 208V SINGLE PHASE CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - PROVIDE 208V THREE PHASE CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - PROVIDE 120V CONNECTION FOR GAS SOLENOID VALVE ON SHUNT TRIP BREAKER. INTERLOCK WITH EXHAUST HOOD FIRE SUPPRESSION.

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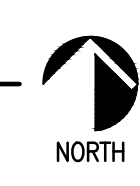


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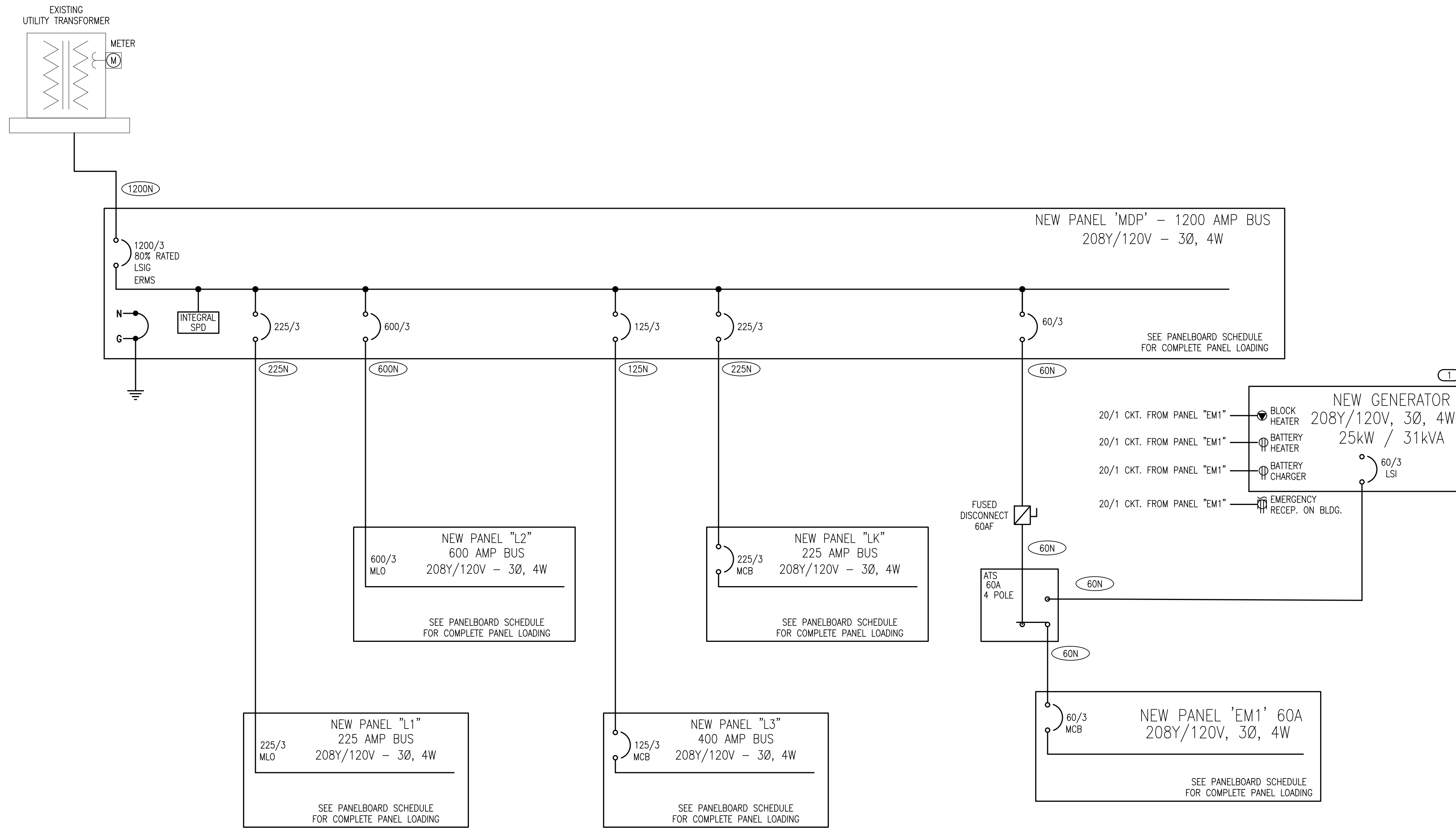
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1 ENLARGED ELECTRICAL KITCHEN PLAN
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1 ONE-LINE DIAGRAM
NO SCALE

FEEDER SCHEDULE				
AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:
 1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
 2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
 3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
 4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

GENERAL NOTES

- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.

KEYED NOTES

(1) GENERATOR SHALL BE DUAL FUEL - NATURAL GAS AND PROPANE. GENERATOR SHALL HAVE FUEL TYPE AUTOMATIC SWITCHOVER CAPABILITY. BASIS OF DESIGN - KOHLER MODEL 250CL 25/31 KW/KVA.



DWG
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TVO
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OCTOBER 2024
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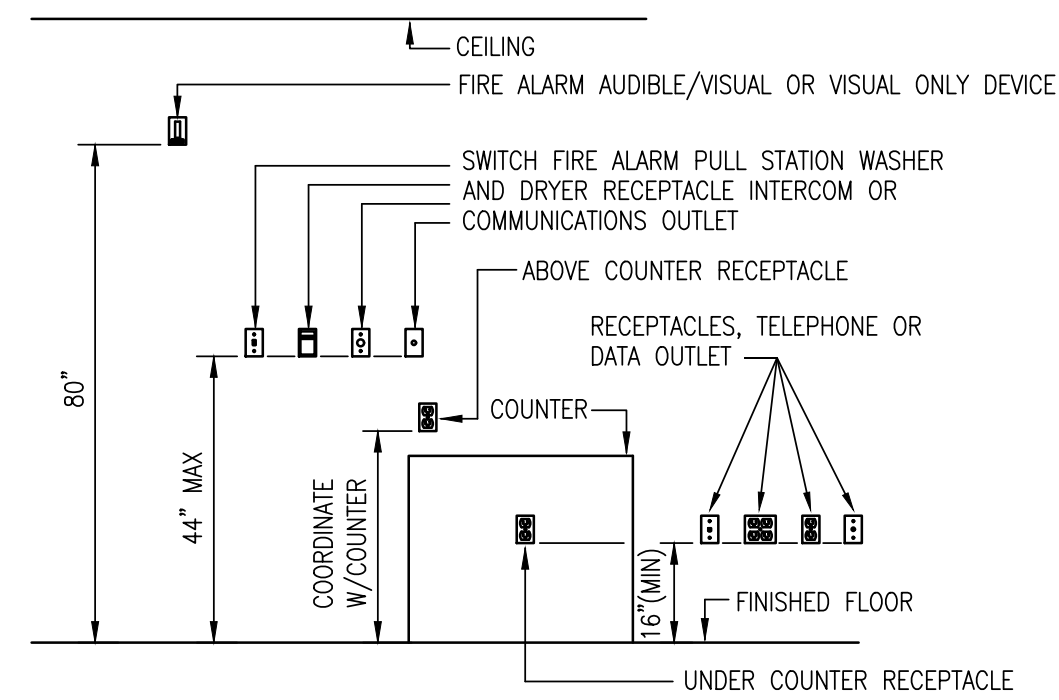


CHILD CARE FACILITY
201 N. EASTERN AVE.

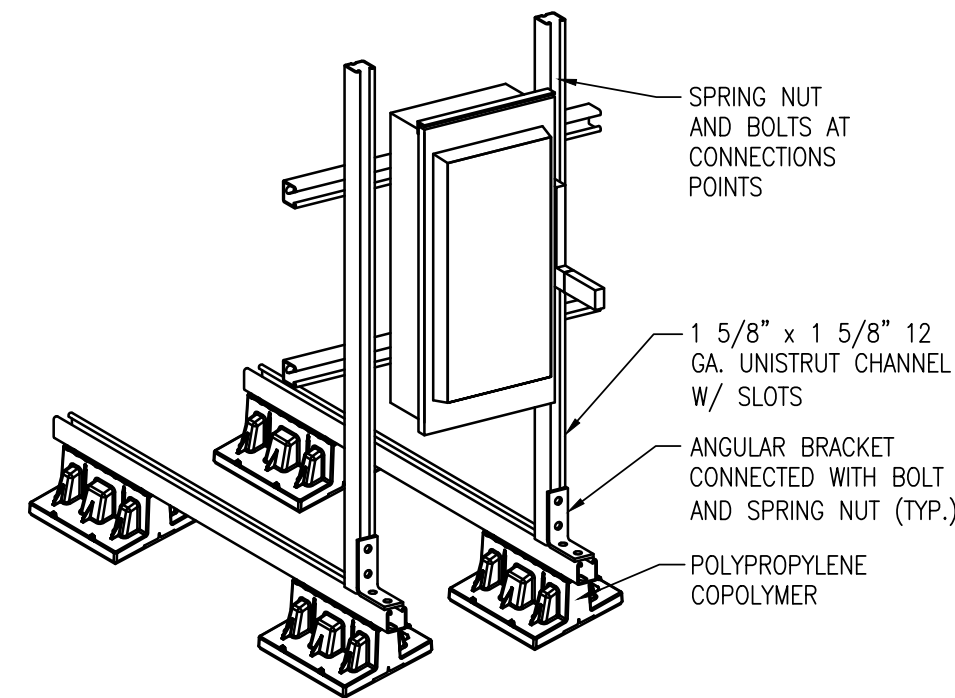
sheet no:
E401

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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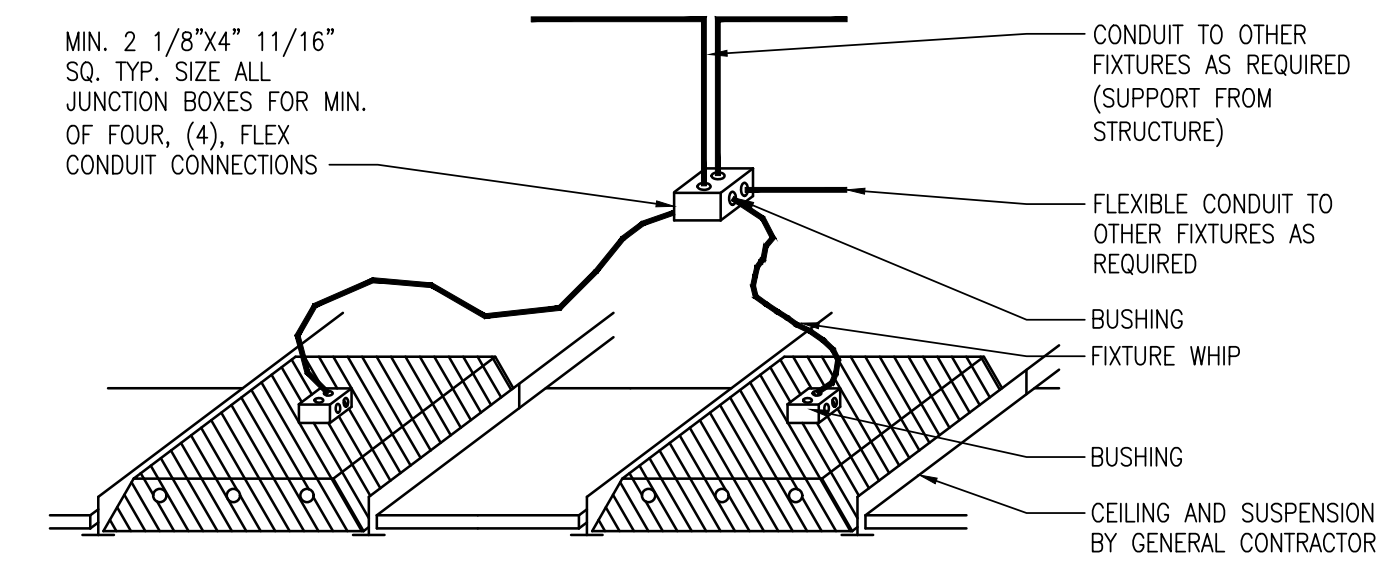
3 TYP. OUTLET MOUNTING DETAIL
NO SCALE



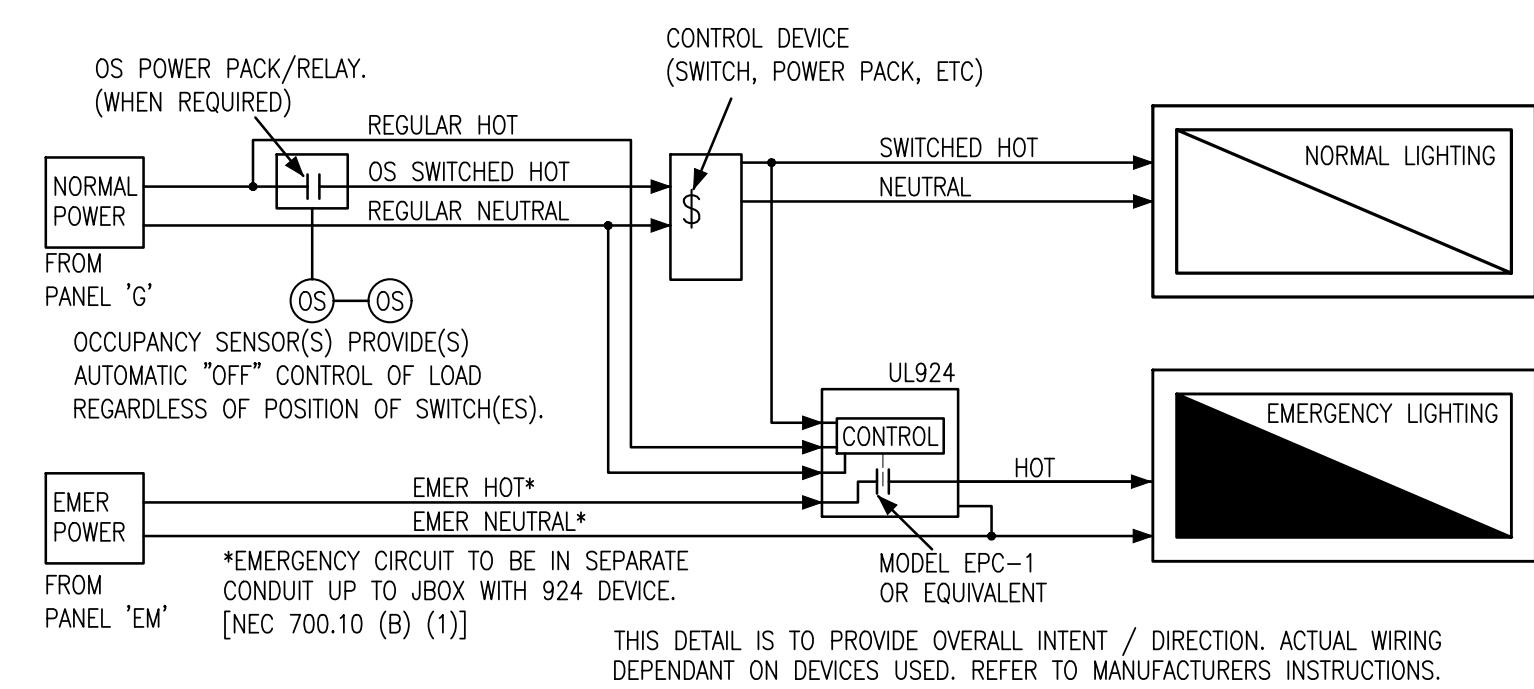
NOTE:

1. FREE STANDING DISCONNECT CONSTRUCTED BY EC
2. ALL METAL PARTS SHALL BE EITHER STAINLESS STEEL, HOT-DIPPED GALVANIZED OR PRE-GALVANIZED FOR OUTDOOR WEATHER PROTECTION.
3. BASE SHALL BE FROM MANUFACTURER ROOFTOP BLOX OR APPROVED EQUAL.

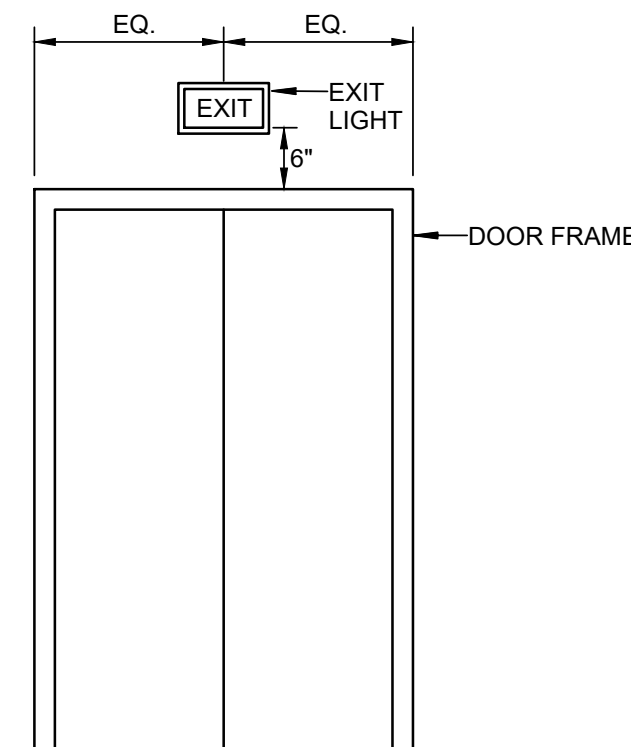
2 DISCONNECT ROOF MOUNTING DETAIL
NO SCALE



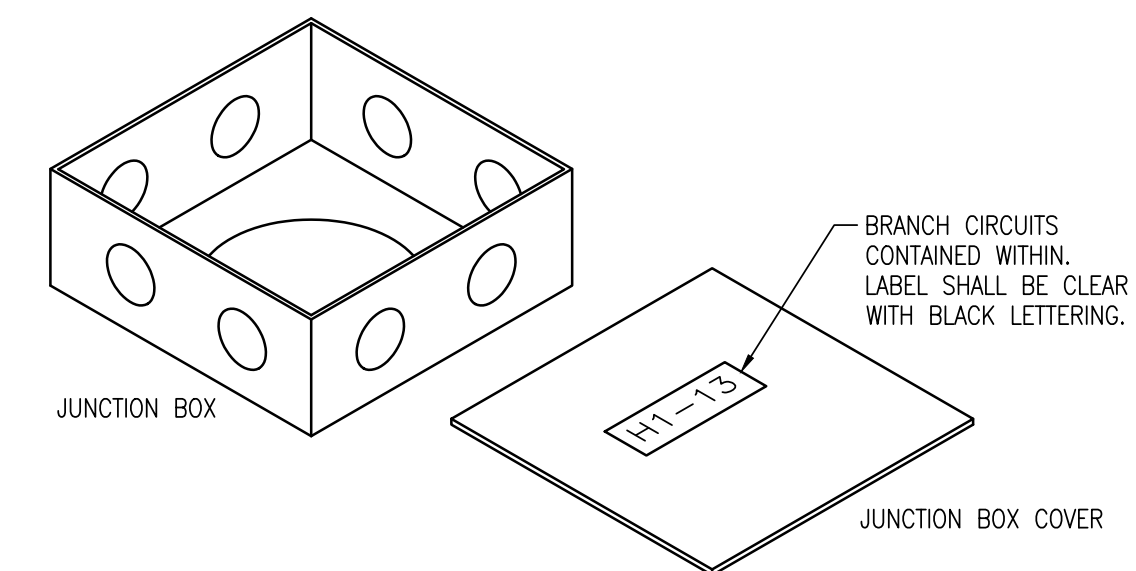
1 TYP. TROFFER POWER DETAIL
NO SCALE



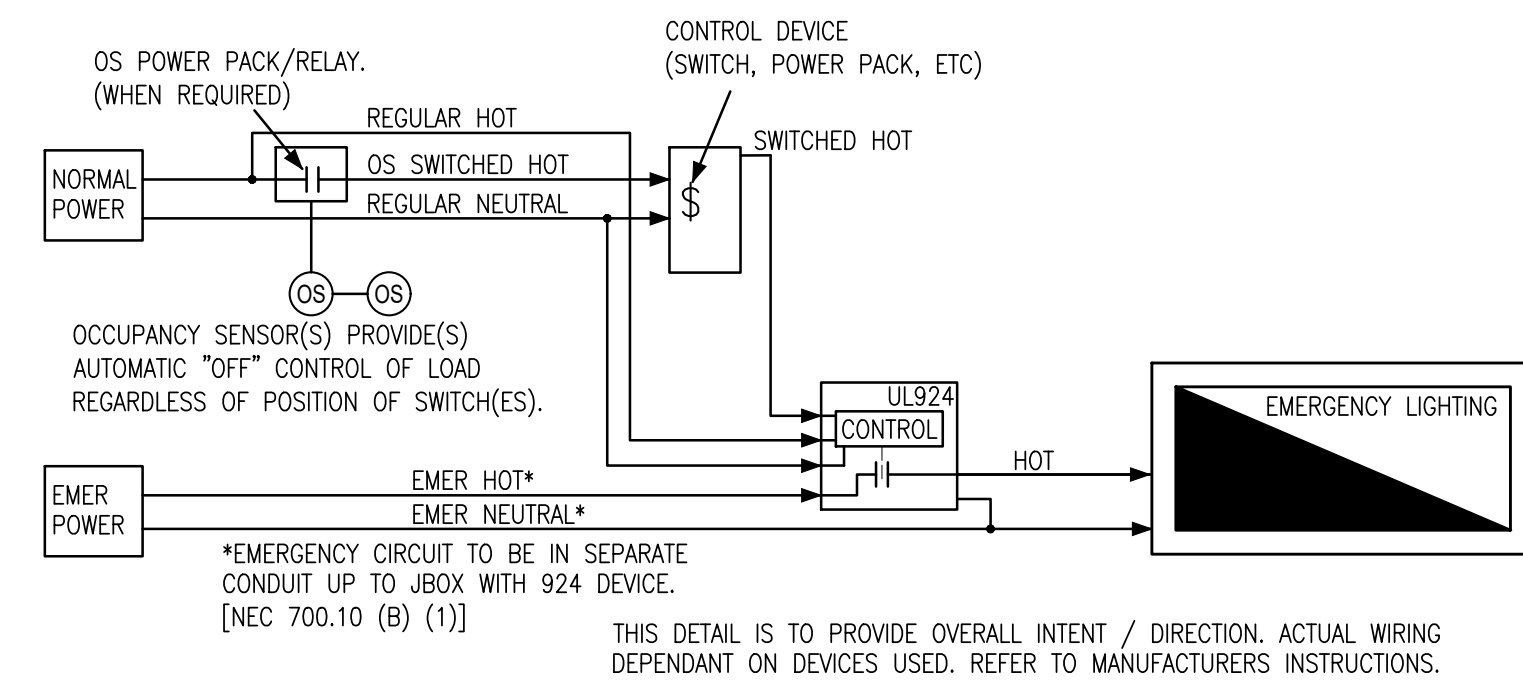
6 EMERGENCY LIGHTING CONTROL
NOT TO SCALE



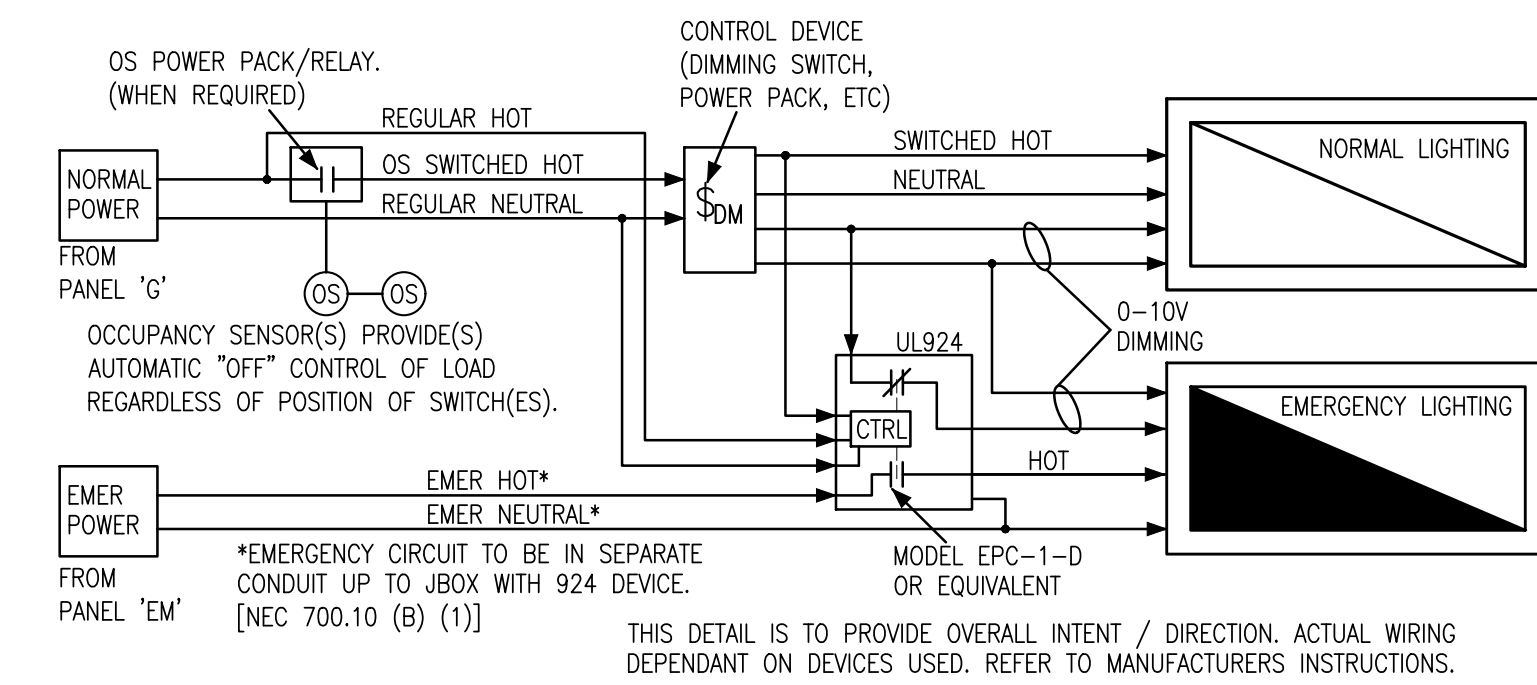
5 TYP. EXIT SIGN LOCATION DETAIL
NO SCALE



4 JUNCTION BOX LABELING DETAIL
NO SCALE



8 FIXTURES POWERED ONLY FROM EM POWER
EMERGENCY LIGHTING CONTROL
NOT TO SCALE



7 EMERGENCY LIGHTING CONTROL (WITH DIMMING)
NOT TO SCALE



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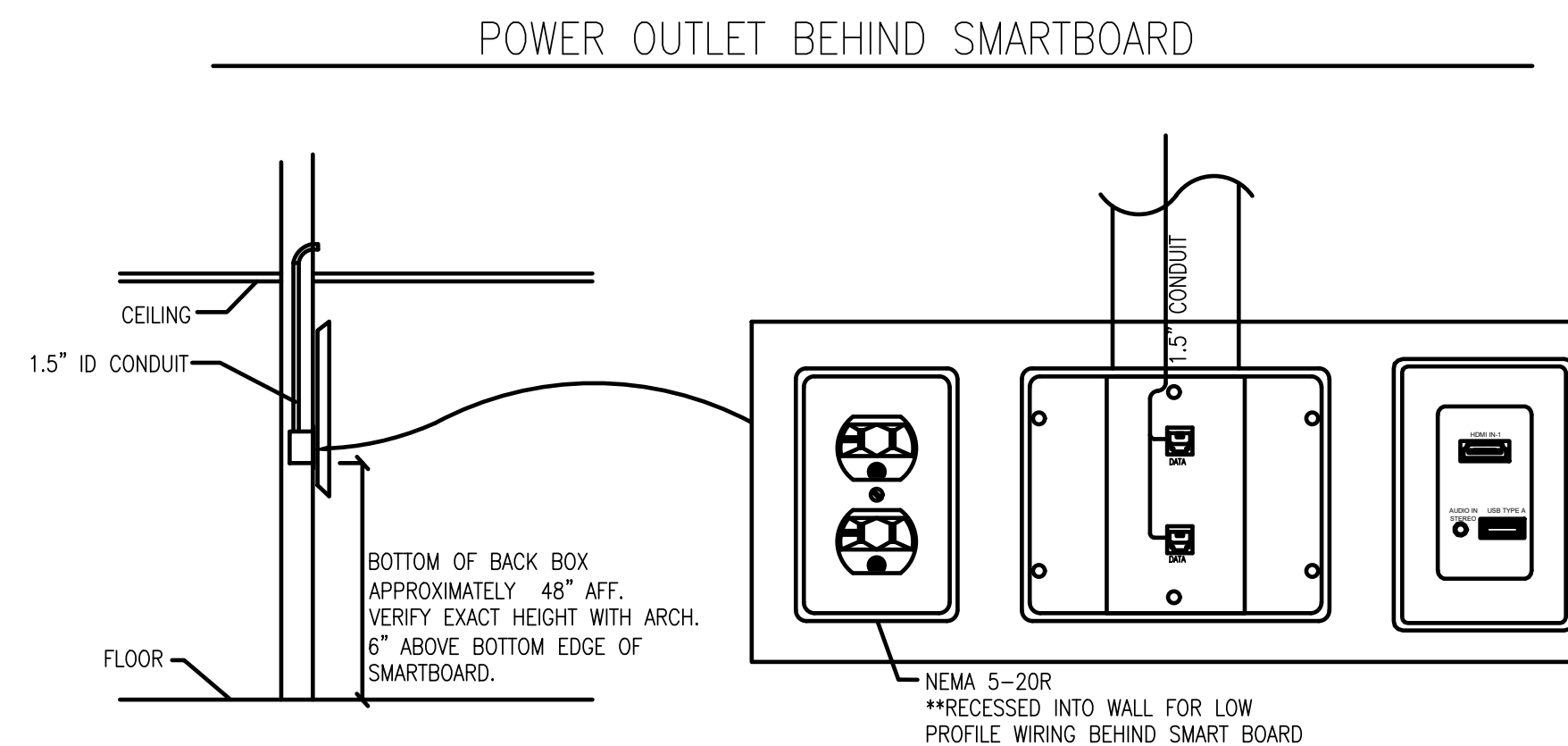
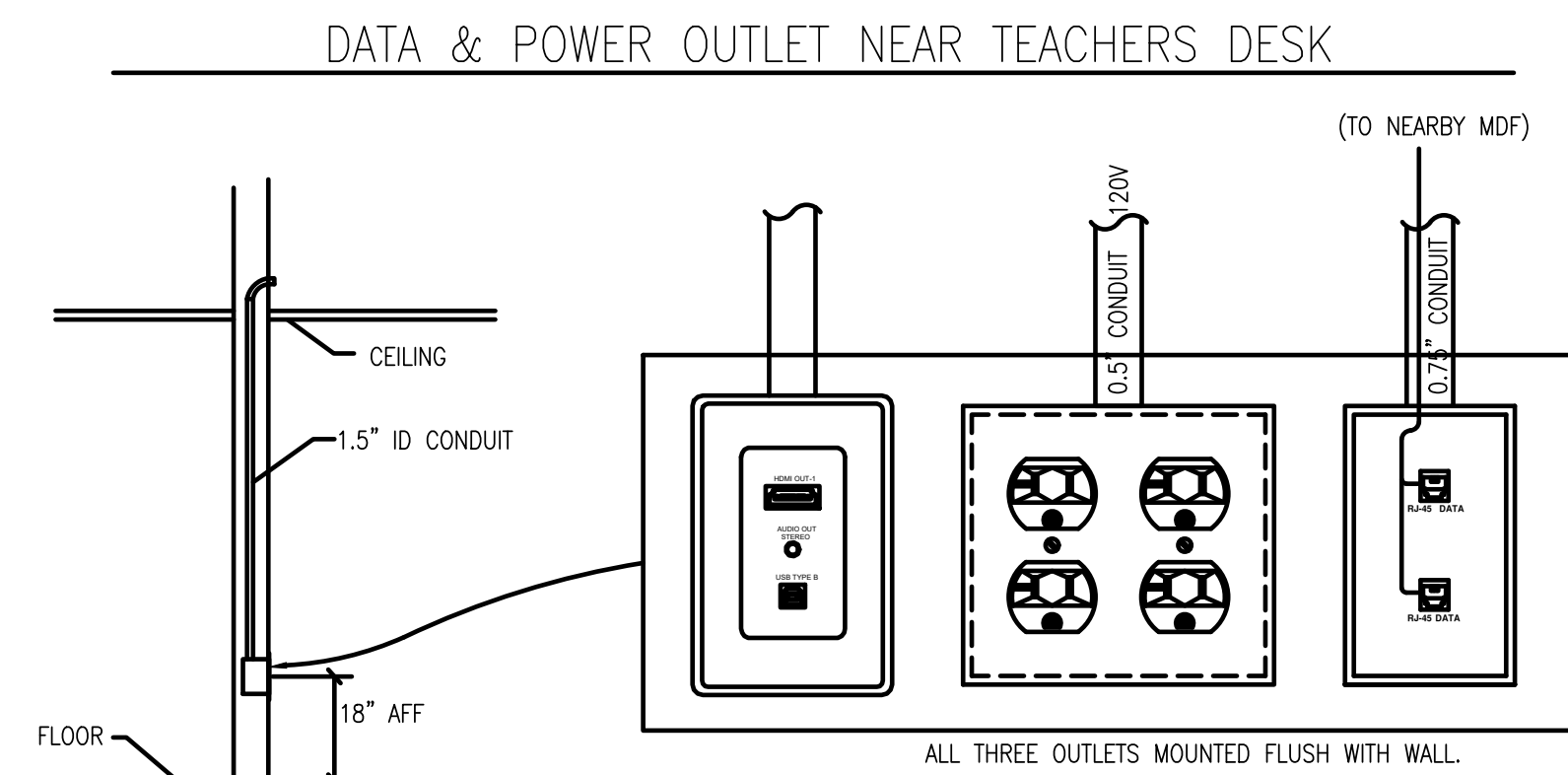
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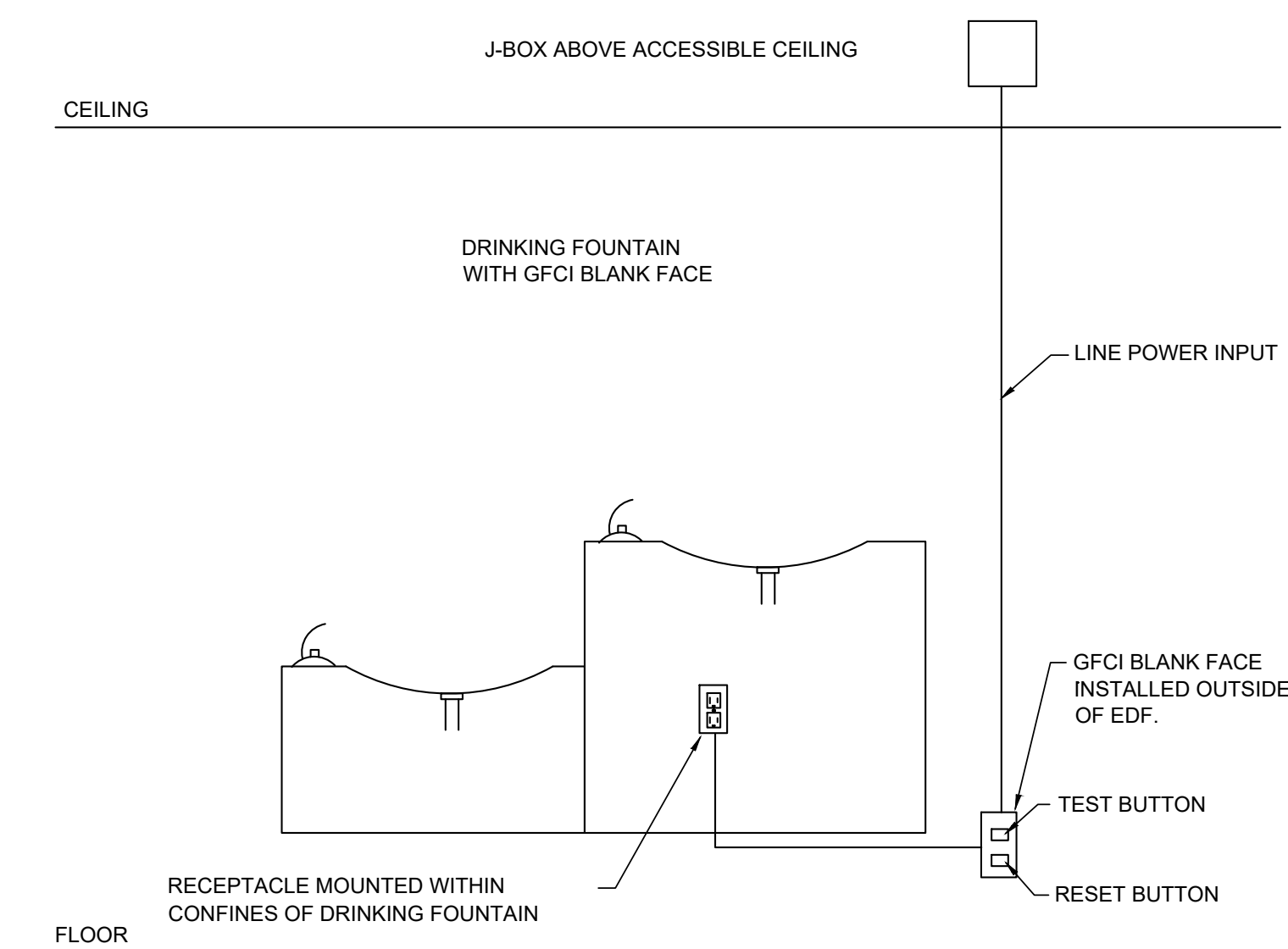
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Expiration Date: 6/30/2025
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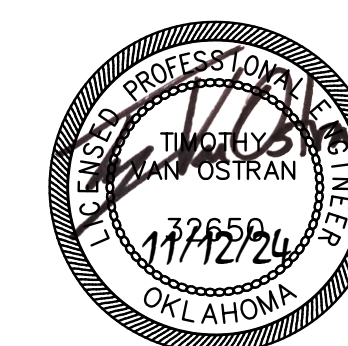
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1 TEACHERS DESK & SMART BOARD WIRING DETAIL
NO SCALE



2 TYP. ELECTRICAL DRINKING FOUNTAIN DETAIL
NO SCALE



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Panel L2		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000				
CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	25/3	5.48	RTU-1	a	2	35/3	7.21	RTU-9
3				b	4			
5				c	6			
7	40/3	7.49	RTU-2	a	8	40/3	7.49	RTU-10
9				b	10			
11				c	12			
13	25/3	5.48	RTU-3	a	14	50/3	13.3	RTU-11
15				b	16			
17				c	18			
19	40/3	7.49	RTU-4	a	20	35/3	7.21	RTU-12
21				b	22			
23				c	24			
25	50/3	13.3	RTU-5	a	26	50/3	13.3	RTU-13
27				b	28			
29				c	30			
31	25/3	5.48	RTU-6	a	32	25/3	7.21	RTU-14
33				b	34			
35				c	36			
37	50/3	13.3	RTU-7	a	38	25/3	5.48	RTU-15
39				b	40			
41				c	42			
43	50/3	13.8	RTU-8	a	44	25/3	5.48	RTU-16
45				b	46			
47				c	48			
49	20/1	0	SPACE	a	50	20/1	0	SPACE
51	20/1	0	SPACE	b	52	20/1	0	SPACE
53	20/1	0	SPACE	c	54	20/1	0	SPACE
55	20/1	0	SPACE	a	56	20/1	0	SPACE
57	20/1	0	SPACE	b	58	20/1	0	SPACE
59	20/1	0	SPACE	c	60	20/1	0	SPACE

CONN KVA	CALC KVA	(%)	TOTAL LOAD	CALC KVA
LARGEST MOTOR	13.8	3.46 (25%)	142	
MOTORS	138	138 (100%)	BALANCED 3-PHASE LOAD	394 A
			PHASE A	100%
			PHASE B	100%
			PHASE C	100%

Panel EM1		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000				
CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	20/1	0.196	LIGHTING	a	2	15/1	1.18	SF-1
3	20/1	0.441	LIGHTING	b	4	15/1	0.696	SF-2
5	20/1	1	LIGHTING	c	6	15/1	0.696	SF-3
7	20/1	0.929	LIGHTING	a	8	20/1	0.5	BLOCK HEATER
9	20/1	0.55	LIGHTING	b	10	20/1	0.5	BATTERY HEATER
11	20/1	0.647	LIGHTING	c	12	20/1	0.5	BATTERY CHARGER
13	20/1	0.572	LIGHTING	a	14	20/1	0.18	RECEPTACLE
15	20/1	0.477	LIGHTING	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE

CONN KVA	CALC KVA	(%)	TOTAL LOAD	CALC KVA
LIGHTING	4.81	6.02 (125%)	2.57	2.57 (100%)
LARGEST MOTOR	1.18	0.294 (25%)	RECEPTACLES	1.68
			BALANCED 3-PHASE LOAD	29.3 A
			PHASE A	118%
			PHASE B	88.2%
			PHASE C	94.2%

Panel L1		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000				
CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	20/1	0.72	ROOFTOP RECEPTACLE	a	2	20/1	1.28	LIGHTING
3	20/1	0.36	RM 431 RECEPTACLE, RM 433 RECEPTACLE	b	4	20/1	0.793	LIGHTING
5	20/1	0.36	I.T. RECEPTACLE	c	6	20/1	0.706	LIGHTING
7	20/1	0.36	I.T. RECEPTACLE	a	8	20/1	0.48	LIGHTING
9	20/1	0.36	I.T. RECEPTACLE	b	10	20/1	0.636	LIGHTING
11	20/1	0.36	I.T. RECEPTACLE	c	12	20/1	1.06	LIGHTING
13	20/1	0.54	RM 434 RECEPTACLE	a	14	20/1	0.528	CP-3
15	20/1	0.54	RM 434 RECEPTACLE	b	16	20/1	0.1	WH-3
17	20/1	0.54	RM 430 RECEPTACLE	c	18	20/1	0.1	WH-4
19	20/1	0.36	RM 430 RECEPTACLE	a	20	20/1	0.1	WH-1
21	20/1	0.72	RM 429 RECEPTACLE, SMARTBOARD	b	22	20/1	0.1	WH-2
23	20/1	0.54	RM 429 RECEPTACLE	c	24	20/1	0.1	WH-5
25	20/1	0.72	RM 1E RECEPTACLE, RM 5 RECEPTACLE	a	26	20/1	0.528	CP-2
27	20/1	0.93	CORRIDOR 428 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 435 RECEPTACLE, TRAP PRIMER	b	28	15/1	0.696	EF-1
29	20/1	0.54	RM 5 RECEPTACLE	c	30	30/2	4.5	EFH-1
31	20/1	0.72	RM 1D RECEPTACLE, RM 4 RECEPTACLE	a	32			
33	20/1	0.54	RM 4 RECEPTACLE	b	34	15/1	0.696	EF-5
35	20/1	0.54	RM 3 RECEPTACLE	c	36	15/1	0.696	EF-6
37	20/1	0.72	RM 1C RECEPTACLE, RM 3 RECEPTACLE	a	38	15/1	0.696	EF-2
39	20/1	0.72	RM 1B RECEPTACLE, RM 2 RECEPTACLE	b	40	20/1	0.528	CP-1
41	20/1	0.54	RM 2 RECEPTACLE	c	42	20/2	2	EFH-1
43	20/1	0.54	RM 103 RECEPTACLE	a	44			
45	20/1	0.72	RM 101C RECEPTACLE, RM 103 RECEPTACLE	b	46	20/2	2	EFH-4
47	20/1	0.72	RM 101B RECEPTACLE, RM 102 RECEPTACLE	c	48			
49	20/1	0.54	RM 102 RECEPTACLE	a	50	15/1	0.696	EF-7
51	20/1	0.72	RM 101A RECEPTACLE, RM 101 RECEPTACLE	b	52	20/1	0.9	RM 301A RECEPTACLE, RM 301 RECEPTACLE, RM 303 RECEPTACLE
53	20/1	0.54	RM 101 RECEPTACLE	c	54	20/1	0.72	RM 301 RECEPTACLE, SMARTBOARD
55	20/1	0.72	RM 101D RECEPTACLE, RM 104 RECEPTACLE	a	56	20/1	0.72	RM 422 RECEPTACLE
57	20/1	0.54	RM 104 RECEPTACLE	b	58	20/1	0.54	RM 423 RECEPTACLE, RM 424 RECEPTACLE, RM 425 RECEPTACLE
59	20/1	0.72	RM 101E RECEPTACLE, RM 105 RECEPTACLE	c	60	20/1	0.72	RM 205 RECEPTACLE
61	20/1	0.9	CORRIDOR 436 RECEPTACLE, RM 105F RECEPTACLE, RM 105 RECEPTACLE	a	62	20/1	0.72	RM 201E RECEPTACLE, RM 205 RECEPTACLE
63	20/1	0.72	RM 201C RECEPTACLE, RM 203 RECEPTACLE	b	64	20/1	0.73	RM 201D RECEPTACLE, RM 204 RECEPTACLE, TRAP PRIMER
65	20/1	0.54	EXTERIOR RECEPTACLE	c	66	20/1	0.72	RM 204 RECEPTACLE
67	20/1	1.1	CORRIDOR 419 RECEPTACLE, CORRIDOR 420 RECEPTACLE, CORRIDOR 428 RECEPTACLE, RM 421 RECEPTACLE, TRAP PRIMER	a	68	20/1	0.72	RM 202 RECEPTACLE
69	20/1	0.36	TELECOM EQ	b	70	20/1	0.72	RM 201B RECEPTACLE, RM 202 RECEPTACLE
71	20/1	0	SPACE	c	72	20/1	0.72	RM 203 RECEPTACLE
73	20/1	0	SPACE	a	74	20/1	0.35	DRYER
75	20/1	0	SPACE	b	76	20/1	0.84	WASHER
77	20/1	0	SPACE	c	78	20/1	0.18	FACP
79	20/1	0	SPACE	a	80	20/1	0	SPACE
81	20/1	0	SPACE	b	82	20/1	0	SPACE
83	20/1	0	SPACE	c	84	20/1	0	SPACE

CONN KVA	CALC KVA	(%)	TOTAL LOAD	CALC KVA
LIGHTING	4.96	6.2 (125%)	5.56	5.56 (100%)
LARGEST MOTOR	0.696	0.174 (25%)	RECEPTACLES	30.4
			HEATING	8.5
			BALANCED 3-PHASE LOAD	40.6
			PHASE A	110%
			PHASE B	93.8%
			PHASE C	96.6%

Panel MDP		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000				
CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	225/3	49.4	PANEL L1	a	2	600/3	138	PANEL L2
3				b	4			
5				c	6			
7	125/3	34.4	PANEL L3	a	8	225/3	61.9	PANEL LK
9				b	10			
11				c	12			
13	20/1	0	SPACE	a	14	60/3	9.06	TRANSFER SWITCH ATS
15	20/1	0	SPACE	b	16			
17	20/1	0	SPACE	c	18			
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE

CONN KVA	CALC KVA	(%)	TOTAL LOAD	CALC KVA
LIGHTING	14.6	18.2 (125%)	205	205 (100%)
LARGEST MOTOR	18	4.5 (25%)	RECEPTACLES	57.8
			HEATING	15.3
			BALANCED 3-PHASE LOAD	277
			PHASE A	102%
			PHASE B	100%
			PHASE C	97.3%

Panel L3		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000				
CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CTKT #	CTKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	20/1	0.18	RM 410 RECEPTACLE	a	2	20/1	0.678	LIGHTING
3	20/1	0.18	RM 410 RECEPTACLE	b	4	20/1	0.619	LIGHTING
5	20/1	0.18	RM 410 RECEPTACLE	c	6	20/1	0.838	LIGHTING
7	20/1	0.72	RM 410 RECEPTACLE	a	8	20/1	0.931	LIGHTING
9	20/1	0.72	RM 409 RECEPTACLE	b	10	20/1	0.99	LIGHTING
11	20/1	0.72	RM 406 RECEPTACLE	c	12	20/1	0.72	ROOFTOP RECEPTACLE
13	20/1	0.72	RM 405 RECEPTACLE	a	14	20/1	0.37	WATER COOLER RECEPTACLE
15	20/1	0.72	RM 404 RECEPTACLE	b	16	20/1	0.54	RM 1 RECEPTACLE
17	20/1	1.2	COPY MACHINE	c	18	20/1	1.09	CORRIDOR 412 RECEPTACLE, CORRIDOR 416 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 411 RECEPTACLE, TRAP PRIMER
19	20/1	0.36	RM 403 RECEPTACLE	a	20	20/1	0.72	RM 1A RECEPTACLE, RM 1 RECEPTACLE
21	20/1	0.36	RM 402 RECEPTACLE	b	22	20/1	0.55	RM 436A RECEPTACLE, RM 436 RECEPTACLE, TRAP PRIMER
23	20/1	0.36	RM 402 RECEPTACLE	c	24	20/1	0.36	RM 436 RECEPTACLE
25	20/1	0.54	RM 402 RECEPTACLE	a	26	20/1	0.9	RM 105G RECEPTACLE, RM 201 RECEPTACLE
27	20/1	0.72	RM 401 RECEPTACLE	b	28	20/1	0.54	RM 201A RECEPTACLE, RM 201 RECEPTACLE
29	20/1	0.72	RM 305 RECEPTACLE, SMARTBOARD	c	30	20/1	0.9	RM 301B RECEPTACLE, RM 302 RECEPTACLE
31	20/1	0.72	RM 301E RECEPTACLE, RM 305 RECEPTACLE	a	32	20/1	0.72	RM 302 RECEPTACLE, SMARTBOARD
33	20/1	0.9	RM 301D RECEPTACLE, RM 304 RECEPTACLE, SMARTBOARD	b	34	20/1	0.72	RM 417A RECEPTACLE, RM 417B RECEPTACLE, RM 417C RECEPTACLE, RM 417 RECEPTACLE
35	20/1	0.72	RM 304 RECEPTACLE	c	36	20/1	0.72	RM 417 RECEPTACLE
37	20/1	0.72	RM 301C RECEPTACLE, RM 303 RECEPTACLE	a	38	20/1	0.36	RM 417 RECEPTACLE
39	20/1	0.9	RM 303 RECEPTACLE, SMARTBOARD	b	40	15/1	0.696	EF-4
41	20/1	0.54	RM 413 RECEPTACLE, RM 414 RECEPTACLE, RM 415 RECEPTACLE	c	42	15/1		

MECHANICAL EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-40	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
CP-2	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-26	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
CP-3	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-14	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-28	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-38	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-42	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
EF-4	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-40	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
EF-5	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-34	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EF-6	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-36	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EF-7	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-50	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EF-8	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-52	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-42,44	3/4"C,2#10,1#10G	TOGGLE SWITCH	MFR	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-48,50	3/4"C,2#10,1#10G	TOGGLE SWITCH	MFR	EC
EFH-3	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-44,46	3/4"C,2#10,1#10G	TOGGLE SWITCH	MFR	EC
EFH-4	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-46,48	3/4"C,2#10,1#10G	TOGGLE SWITCH	MFR	EC
EW-1	ELECTRIC WATER HEATER	208V 2P 2W		4.5			L1-30,32	3/4"C,2#10,1#10G	NON-FUSED	EC	EC
RTU-1	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-1,3,5	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-2	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-7,9,11	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-3	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-13,15,17	3/4"C,3#8,1#10G	NON-FUSED	MC	MC
RTU-4	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-19,21,23	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-5	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-25,27,29	3/4"C,3#6,1#10G	NON-FUSED	MC	MC
RTU-6	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-31,33,35	3/4"C,3#8,1#10G	NON-FUSED	MC	MC
RTU-7	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-37,39,41	1"C,3#4,1#10G	NON-FUSED	MC	MC
RTU-8	ROOF TOP UNIT	208V 3P 3W		13.83	48	50	L2-43,45,47	1"C,3#4,1#10G	NON-FUSED	MC	MC
RTU-9	ROOF TOP UNIT	208V 3P 3W		7.21	25	35	L2-2,4,6	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-10	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-8,10,12	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-11	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-14,16,18	3/4"C,3#6,1#10G	NON-FUSED	MC	MC
RTU-12	ROOF TOP UNIT	208V 3P 3W		7.21	25	35	L2-20,22,24	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-13	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-26,28,30	1"C,3#4,1#10G	NON-FUSED	MC	MC
RTU-14	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-32,34,36	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-15	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-38,40,42	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
RTU-16	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-44,46,48	3/4"C,3#10,1#10G	NON-FUSED	MC	MC
SF-1	EXHAUST FAN	120V 1P 2W	1/2 HP	1.18	2	15	EM1-2	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
SF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-4	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
SF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-6	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
WH-1	WATER HEATER	120V 1P 2W	F HP	0.1			L1-20	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W	F HP	0.1			L1-22	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
WH-3	WATER HEATER	120V 1P 2W	F HP	0.1			L1-16	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
WH-4	WATER HEATER	120V 1P 2W	F HP	0.1			L1-18	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
WH-5	WATER HEATER	120V 1P 2W	F HP	0.1			L1-24	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC

KITCHEN EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
AC	AIR CURTAIN	120V 1P 2W	1 HP	1.92			LK-5	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
CLR	COOLER	120V 1P 2W		0.3			LK-7	3/4"C,1#12,1#12G	JUNCTION BOX	EC	EC
CO-1	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-11	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
CO-2	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-13	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
CS-1	CONVECTION STEAMER	208V 2P 2W		6			LK-21,23	3/4"C,2#6,1#10G	NON-FUSED	EC	EC
CS-2	CONVECTION STEAMER	208V 2P 2W		8			LK-25,27	3/4"C,2#6,1#10G	NON-FUSED	EC	EC
DW	DISHWASHER	208V 3P 3W		18			LK-4,6,8	1"C,3#4,1#8G	NON-FUSED	EC	EC
EK	ELECTRIC KETTLE	208V 3P 3W		10.8			LK-15,17,19	3/4"C,3#8,1#10G	NON-FUSED	EC	EC
FRZ	FREEZER	120V 1P 2W		0.3			LK-7	3/4"C,1#12,1#12G	JUNCTION BOX	EC	EC
HC	HOT CABINET	120V 1P 2W		1.92			LK-9	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
HFW	HOT FOOD WELL	208V 2P 2W		2.81			LK-35,37	3/4"C,2#12,1#12G	NON-FUSED	EC	EC
IM	ICE MAKER	120V 1P 2W		1.62			LK-33	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC
MC	MILK COOLER	120V 1P 2W		0.33			LK-41	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
MW	MICROWAVE	120V 1P 2W		1.5			LK-29	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
RFW	REFRIGERATED FOOD WELL	120V 1P 2W		0.84			LK-39	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
SM	STAND MIXER	120V 1P 2W	1/2 HP	1.18			LK-31	3/4"C,1#12,1#12G	DUPLEX RECEPTACLE	EC	EC
VEN	VENTILATOR	120V 1P 2W		1.8			LK-43	3/4"C,1#12,1#12G	TOGGLE SWITCH	EC	EC

Panel		ROOM	VOLTS	208Y/120V 3P 4W	AIC	65,000	
LK		MOUNTING	BUS AMPS	225	MAIN BKR	225	
		RECESSED	NEUTRAL	100%	LUGS	STANDARD	
		FED FROM	NOTE	SHUNT TRIP MAIN BREAKER			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.54	RECEPTACLE	a 2	20/1	0.752	LIGHTING
3	20/1	0.72	RECEPTACLE	b 4	70/3	18	DW
5	20/1	1.92	AC	c 6			
7	20/1	0.6	CLR, FRZ	a 8			
9	20/1	1.92	HC	b 10	20/1	0.03	TRAP PRIMER
11	20/1	1.18	CO-1	c 12	20/1	0	SHUNT TRIP
13	20/1	1.18	CO-2	a 14	20/1	0.18	GAS VALVE
15	40/3	10.8	EK	b 16	20/1	0	SPACE
17				c 18	20/1	0	SPACE
19				a 20	20/1	0	SPACE
21	40/2	6	CS-1	b 22	20/1	0	SPACE
23				c 24	20/1	0	SPACE
25	50/2	8	CS-2	a 26	20/1	0	SPACE
27				b 28	20/1	0	SPACE
29	20/1	1.5	MW	c 30	20/1	0	SPACE
31	20/1	1.18	SM	a 32	20/1	0	SPACE
33	20/1	1.62	IM	b 34	20/1	0	SPACE
35	20/2	2.81	HFW	c 36	20/1	0	SPACE
37				a 38	20/1	0	SPACE
39	20/1	0.84	RFW	b 40	20/1	0	SPACE
41	20/1	0.325	MC	c 42	20/1	0	SPACE
43	20/1	1.8	VEN	a 44	20/1	0	SPACE
45	20/1	0	SPACE	b 46	20/1	0	SPACE
47	20/1	0	SPACE	c 48	20/1	0	SPACE
49	20/1	0	SPACE	a 50	20/1	0	SPACE
51	20/1	0	SPACE	b 52	20/1	0	SPACE
53	20/1	0	SPACE	c 54	20/1	0	SPACE
55	20/1	0	SPACE	a 56	20/1	0	SPACE
57	20/1	0	SPACE	b 58	20/1	0	SPACE
59	20/1	0	SPACE	c 60	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	0.752	0.94	(125%)	MOTORS	56.9
LARGEST MOTOR	18	4.5	(25%)	RECEPTACLES	1.47
				HEATING	2.81
				TOTAL LOAD	66.6
				BALANCED 3-PHASE LOAD	185 A
				PHASE A	103%
				PHASE B	105%
				PHASE C	91.7%



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KFC ENGINEERING
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201 N. EASTERN AVE.

sheet no:
E602

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Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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