LIGHT FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A1		2X4 LED FLAT PANEL. 46W, 6400 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A1E		2X4 LED FLAT PANEL. 46W, 6400 LUMENS, 4000K CT. 0–10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A2		2X4 LED FLAT PANEL. 35W, 5000 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A2E		2X4 LED FLAT PANEL. 35W, 5000 LUMENS, 4000K CT. 0–10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
B1		2X2 LED FLAT PANEL. 33W, 4600 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT
B1E		2X2 LED FLAT PANEL. 33W, 4600 LUMENS, 4000K CT. 0–10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT
C1		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
C1E		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
C2		6" LED DOWNLIGHT. 19W, 2100 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
C2E		6" LED DOWNLIGHT. 19W, 2100 LUMENS, 4000K CT. 0–10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
CW		6" LED DOWNLIGHT. 19W, 2100 LUMENS, 4000K CT. 0–10V DIMMING. WET LISTED.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ WL
CWE		6" LED DOWNLIGHT. 19W, 2100 LUMENS, 4000K CT. 0–10V DIMMING. WET LISTED. PROVIDE WITH UL924 DEVICE.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ WL
EX1		LED EXIT SIGN, BRUSHED ALUMINUM FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, PROVIDE WITH UL924 DEVICE.	LITHONIA	EDG 1 R EL N SD
F		SURFACE MOUNT CANOPY LED 34W, 4800 LUMENS, 4000K CT. 0–10V DIMMING.	LITHONIA	CNY LED ALO SWW2 UVOLT PE PIR DDB M2
G		FLAG POLE LIGHT 100W, 14,000 LUMENS, 4000K CT. IP66 RATED	LITHONIA	ESXF3 ALO SWW2 YS DDB
P1		SINGLE HEAD PARKING LOT LIGHT FIXTURE, 7–PIN RECEPTACLE CONTROL 133W, 16,417 LUMENS, 4000K CCT.	LITHONIA	RSX1 LED P4 40K R2 MVOLT SPA PER7 DDBXD / DLL127F 1.5 JU / SSS 25' 4C DM19AS DDBXD
P2		SINGLE HEAD PARKING LOT LIGHT FIXTURE, 7–PIN RECEPTACLE CONTROL 133W, 16,574 LUMENS, 4000K CCT.	LITHONIA	RSX1 LED P4 40K R4 MVOLT SPA PER7 DDBXD DLL127F 1.5 JU / SSS 25' 4C DM19AS DDBXD
P3		DOUBLE HEAD PARKING LOT LIGHT FIXTURE, 7–PIN RECEPTACLE CONTROL 266W, 32,991 LUMENS, 4000K CCT.	LITHONIA	(1) RSX1 LED P4 40K R2 MVOLT SPA PER7 DDBXD / (1) RSX1 LED P4 40K R4 MVOLT SPA PER7 DDBXD / (2) DLL127F 1.5 JU / SSS 25' 4C DM28AS DDBXD
RE		6' EXTERIOR LED FIXTURE. 30W, 3100 LUMENS, 4000K CT. 0–10V DIMMING. IP66 RATED. PROVIDE WITH UL924 DEVICE.	A–LIGHT	LIN 3 SP M6' LS 40 U HE M.5" B D ES
S1		4' LED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CT. MULTIPLE MOUNTING TYPES.	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI
S1E		4' LED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CT. MULTIPLE MOUNTING TYPES. PROVIDE WITH UL924 DEVICE.	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI
S2		2' LED STRIP FIXTURE 1800 LUMENS, 4000K CT MULTIPLE MOUNTING TYPES	LITHONIA	CSS L24 ALO15 MVOLT SWW3 80CRI
T		4" ROUND WALL SCONCE LED 31W, 1500 LUMENS UP AND DOWN, 4000K CT. 0–10V DIMMING.	GOTHAM	ICO4UDWC 40/15 AR LSS 20D SHLD SDDB U15LM U20D USHLD USDDB MVOLT GZ10 JBX
V1		2' LED VANITY FIXTURE 7W, 800 LUMENS, 4000K CT 0–10V DIMMING	MARK LIGHTING	S2WD LLP 2FT MSL2 80CRI 40K 400LMF SCT MIN10 FLL MVOLT WHTT ZT
W1E		2400 LUMENS, 4000K CT, LED WALL PACK PROVIDE WITH UL924 DEVICE.	LITHONIA	WPX1 LED P2 40K MVOLT DBLXD

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	ANNUNICIATOR	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
		PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	ø	PHASE
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND	3W	3 WIRE
		1P20A	SINGLE POLE 20 AMP
LV	LOW VOLTAGE		
LVRP	LV RELAY PANEL		

SWITCH LEGEND	
SYMBOL	DESCRIPTION
$	20A, 120/277V SPST SWITCH
$a	20A, 120/277V LETTER INDICATES GROUP
$3	20A, 120/277V 3–WAY
$4	20A, 120/277V 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
	DUPLEX RECEPTACLE, CEILING MOUNTED
	GFCI RECEPTACLE
	GFCI RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	20A, 120V, 2P, 3W GROUNDING DUPLEX GFCI RECEPTACLE – WEATHER PROOF (IN USE COVER)
J	JUNCTION BOX, AS NOTED
	QUADPLEX RECEPTACLE

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES

1. 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.
2. ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. 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.
4. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. 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.
6. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
7. 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.
8. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
9. 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
T	TRANSFORMER
	UTILITY METER
CB	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
P	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

ELECTRICAL SHEET INDEX

E000	ELECTRICAL TITLE SHEET
ED101	ELECTRICAL DEMOLITION PLAN – EXISTING AUDITORIUM
ED102	ELECTRICAL DEMOLITION PLAN – EXISTING CAFETERIA
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN – AREA A
E102	ELECTRICAL LIGHTING PLAN – AREA B
E201	ELECTRICAL POWER PLAN – AREA A
E202	ELECTRICAL POWER PLAN – AREA B
E203	ELECTRICAL POWER PLAN – EXISTING AUDITORIUM
E204	ELECTRICAL ROOF PLAN – AREA A
E205	ELECTRICAL ROOF PLAN – AREA B
E401	ELECTRICAL ONE–LINE DIAGRAM – PART ONE
E402	ELECTRICAL ONE–LINE DIAGRAM – PART TWO
E501	ELECTRICAL DETAILS SHEET
E502	ELECTRICAL DETAILS SHEET
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E603	ELECTRICAL SCHEDULES

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Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2550-00564-00

1 ELECTRICAL DEMOLITON PLAN - EXISTING AUDITORIUM

SCALE: 1/8" = 1'-0"

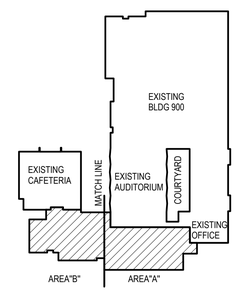
NORTH

DEMOLITION GENERAL NOTES

1. THESE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK TO BE INCLUDED IN THIS PROJECT. THE CONTRACTOR SHOULD REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
2. EXISTING PANELS SHALL BE REMOVED AND REPLACED WITH NEW PANELS AS INDICATED ON SHEET E-201. REFER TO SHEET E-401 FOR ADDITIONAL INFORMATION.
3. EXISTING LIGHT FIXTURES, SWITCHES, AND LIGHTING DEVICES SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AS INDICATED ON E-000 AND E-101.
4. EXISTING RECEPTACLES AND OTHER DEVICES SHALL BE REMOVED AND REPLACED WITH NEW DEVICES AS INDICATED ON SHEET E-201, E-202, AND E-203.
5. EXISTING CONDUIT AND WIRING MAYBE REUSED IF IN SERVICEABLE CONDITION, OTHERWISE PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. NEW DEVICES AND FIXTURES SHALL BE CIRCUITED TO NEW PANELS AS INDICATED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
6. DEMOLITION PLAN INFORMATION SHOWN AT TIME OF DESIGN. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND MAKE ANY NECESSARY CHANGES TO COMPLETE THE WORK.
7. REMOVE ALL UNUSED WIRING AND CONDUIT AS PART OF THE DEMOLITION PROCESS.
8. EC SHALL UPDATE CIRCUIT DIRECTORIES IN EXISTING PANELS AS REQUIRED FOR NEW EQUIPMENT. NEW CIRCUIT DIRECTORIES ARE TO BE TYPED AND PRINTED.

KEYED NOTES

1. EXISTING 'FRANK ADAM' PANEL TO BE DEMOLISHED AND REPLACED. RETAIN BREAKERS AND RETURN TO OWNER PER OWNER'S REQUEST. EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANEL. REFER TO E201 FOR ADDITIONAL INFORMATION.
2. EXISTING 'ZINSCO' PANEL TO BE DEMOLISHED AND REPLACED. RETAIN BREAKERS AND RETURN TO OWNER PER OWNER'S REQUEST. EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANEL. REFER TO E201 FOR ADDITIONAL INFORMATION.
3. EXISTING LOAD CENTER TO BE DEMOLISHED. EXISTING CIRCUITS TO BE RECONNECTED TO NEW PANEL. REFER TO E201 FOR ADDITIONAL INFORMATION.
4. EXISTING ELECTRICAL PANEL TO REMAIN.
5. EXISTING WATER COOLER TO BE DEMOLISHED. DEMO WIRING BACK TO EXISTING PANEL AND LABEL BREAKER AS SPARE.
6. EXISTING LIGHT FIXTURES IN THIS AREA TO BE DEMOLISHED AND REPLACED.
7. THIS PANEL BELIEVED TO BE FED DIRECTLY FROM UTILITY AS A SEPARATE SERVICE. UTILITY TRANSFORMER LOCATED WEST OF MAIN ELECTRICAL ROOM IS BELIEVED TO BE THE SERVICE POINT. COORDINATE WITH UTILITY COMPANY TO VERIFY EXACT FEED AND RELOCATION. REPORT ANY ANOMALIES TO THE ENGINEER PRIOR TO PROCEEDING. REPLACEMENT PANEL SHALL BE FED DIRECTLY FROM 'SWBD', REFER TO E401 FOR MORE INFORMATION.



KEYPLAN

NO SCALE

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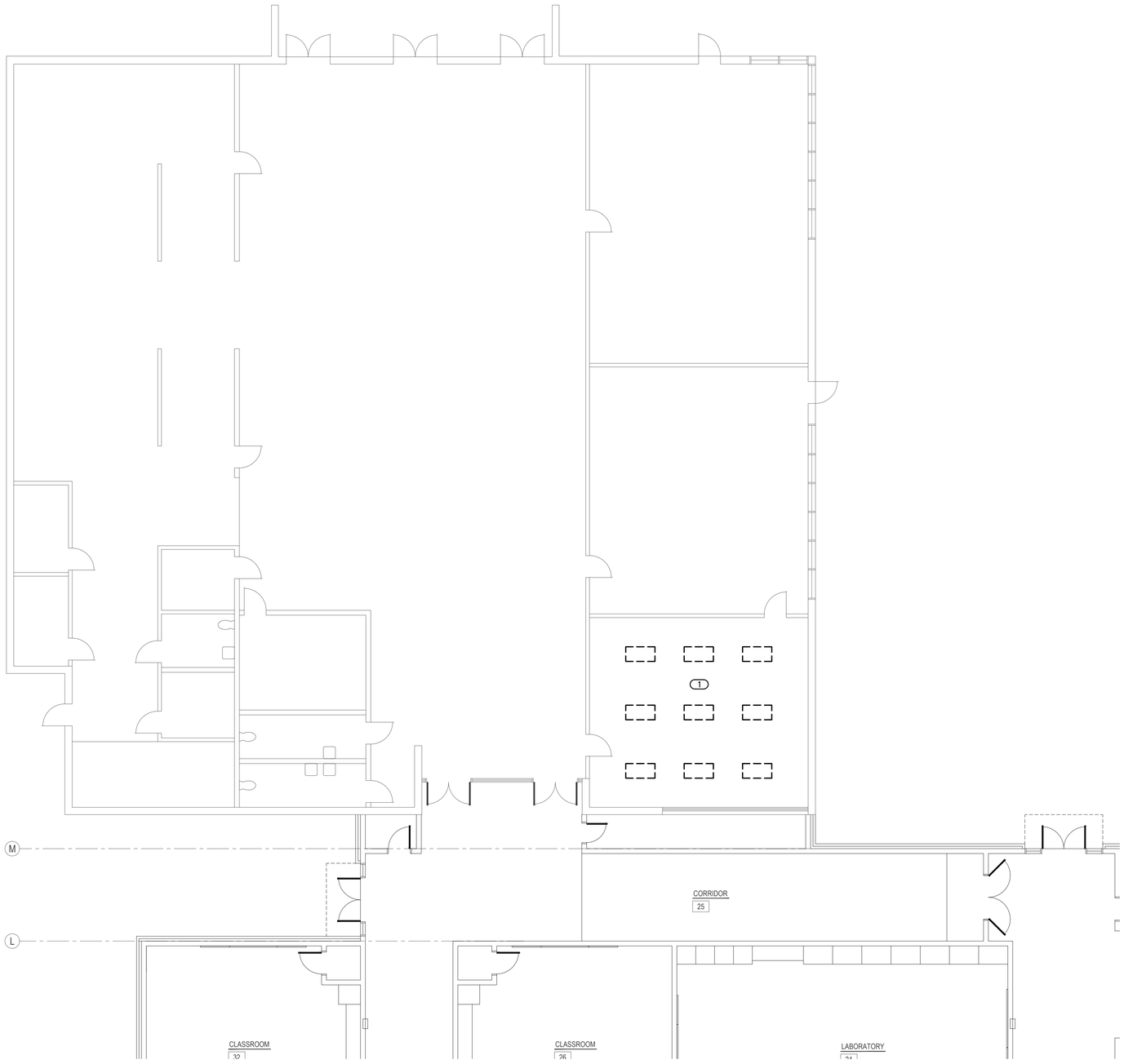


1 ELECTRICAL DEMOLITON PLAN - EXISTING CAFETERIA

SCALE: 1/8" = 1'-0"

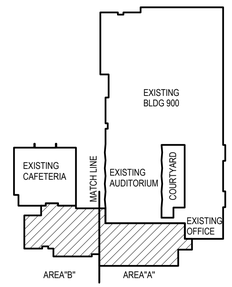
NORTH

DEMOLITION GENERAL NOTES

1. THESE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK TO BE INCLUDED IN THIS PROJECT. THE CONTRACTOR SHOULD REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
2. EXISTING PANELS SHALL BE REMOVED AND REPLACED WITH NEW PANELS AS INDICATED ON SHEET E-201. REFER TO SHEET E-401 FOR ADDITIONAL INFORMATION.
3. EXISTING LIGHT FIXTURES, SWITCHES, AND LIGHTING DEVICES SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AS INDICATED ON E-000 AND E-101.
4. EXISTING RECEPTACLES AND OTHER DEVICES SHALL BE REMOVED AND REPLACED WITH NEW DEVICES AS INDICATED ON SHEET E-201, E-202, AND E-203.
5. EXISTING CONDUIT AND WIRING MAYBE REUSED IF IN SERVICEABLE CONDITION, OTHERWISE PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. NEW DEVICES AND FIXTURES SHALL BE CIRCUITED TO NEW PANELS AS INDICATED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
6. DEMOLITION PLAN INFORMATION SHOWN AT TIME OF DESIGN. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND MAKE ANY NECESSARY CHANGES TO COMPLETE THE WORK.
7. REMOVE ALL UNUSED WIRING AND CONDUIT AS PART OF THE DEMOLITION PROCESS.
8. EC SHALL UPDATE CIRCUIT DIRECTORIES IN EXISTING PANELS AS REQUIRED FOR NEW EQUIPMENT. NEW CIRCUIT DIRECTORIES ARE TO BE TYPED AND PRINTED.

KEYED NOTES

(1) EXISTING LIGHT FIXTURES IN THIS AREA TO BE DEMOLISHED AND REPLACED.



KEYPLAN
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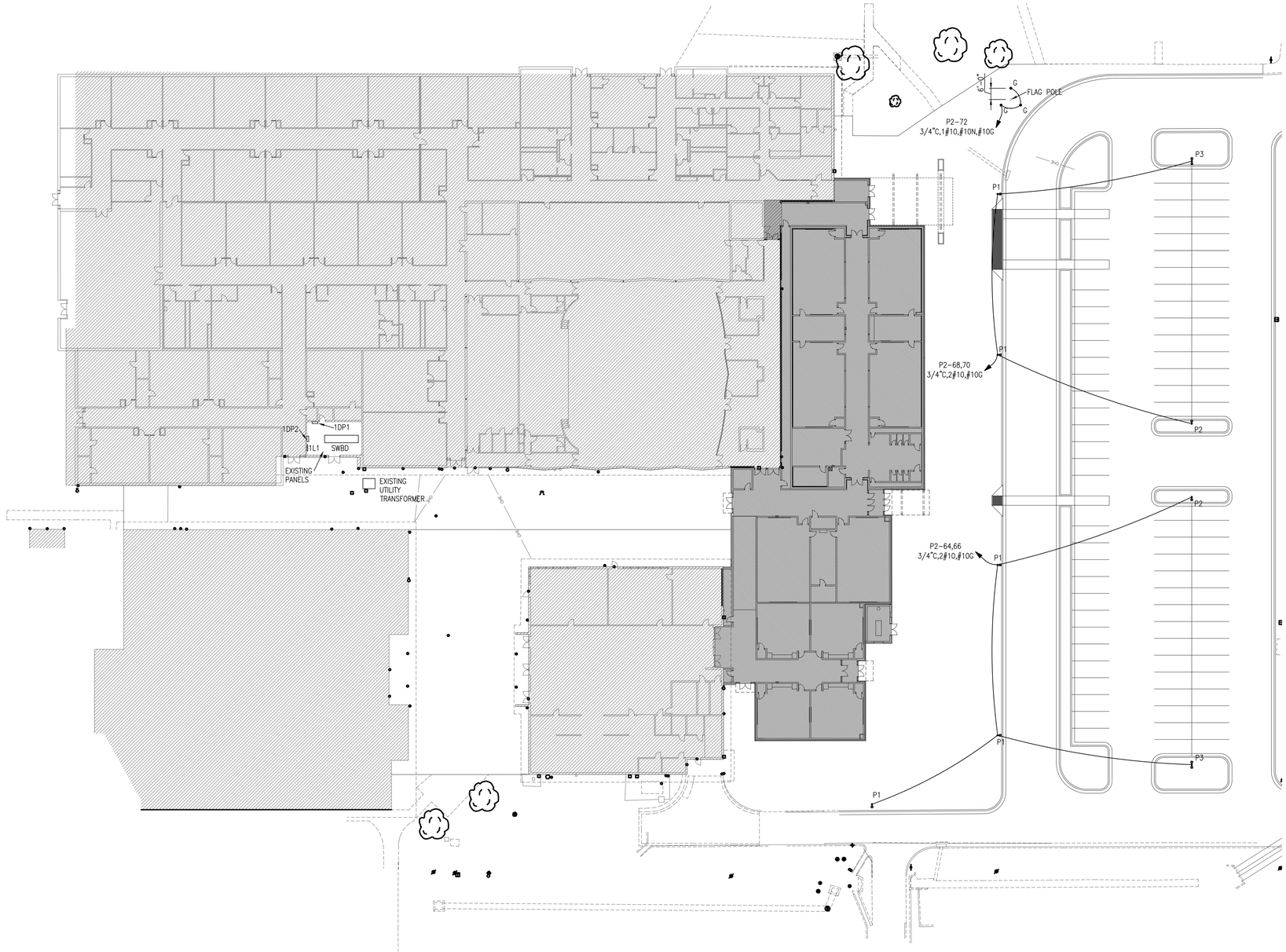

GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. EXTERIOR LIGHTING SHALL BE CONTROLLED BY RELAY TO INTERLOCK WITH EXISTING EXTERIOR LIGHTING CONTROLS. EC SHALL FIELD INVESTIGATE AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
3. 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.
4. 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.
5. PROVIDE GROUNDING AND BONDING AT EACH BUILDING IN ACCORDANCE WITH NEC 250.32.

1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

NORTH

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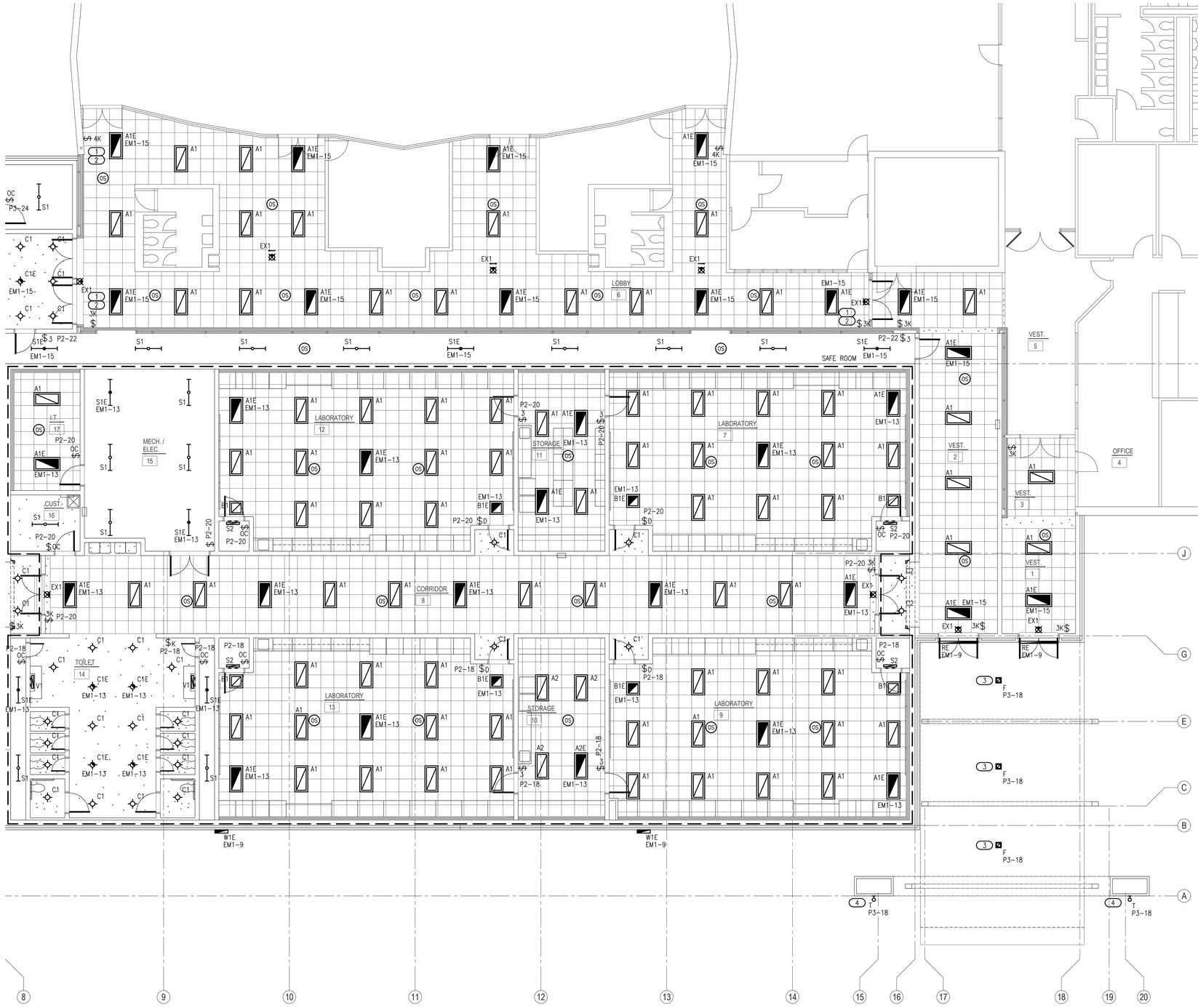


1 ELECTRICAL LIGHTING PLAN - AREA A

SCALE: 1/8" = 1'-0"

NORTH

LIGHTING GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3. COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4. COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
5. LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
6. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.
7. EXTERIOR LIGHTING SHALL BE CONTROLLED BY RELAY TO INTERLOCK WITH EXISTING EXTERIOR LIGHTING CONTROLS. EC SHALL FIELD INVESTIGATE AND REPORT ANY ANOMILIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.

SAFEROOM GENERAL NOTES

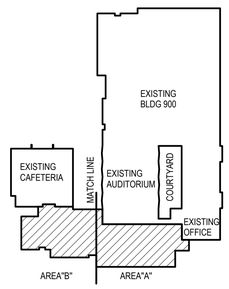
PER ICC 500-2014, 309.1:

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

1. PANEL FEEDING EXISTING LIGHTING CIRCUITS TO BE REPLACED. PROVIDE NEW WIRING AND CONDUIT FOR ALL NEW LIGHTING. EXISTING WIRING AND CONDUIT MAY BE REUSED WHERE IN SERVICEABLE CONDITION. ANY WIRING TO BE REUSED SHALL BE WARRANTED AS IF NEW.
2. EMERGENCY LIGHTING TO BE CIRCUITED TO NEW PANEL 'EM1' AS INDICATED. UL924 DEVICES, AS INDICATED IN LIGHT FIXTURE SCHEDULE, SHALL BE USED TO CONTROL EMERGENCY LIGHTS WITH EXISTING LIGHTING CIRCUITS AS INDICATED IN KEYED NOTE #1 ABOVE.
3. COORDINATE LIGHT FIXTURE LOCATION AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
4. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.



KEYPLAN

NO SCALE

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CEDAR CREEK
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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

OKLAHOMA PROFESSIONAL ENGINEER TIMOTHY VOSTRAN 32650 05/15/25

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MOORE PUBLIC SCHOOLS
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MOORE Public Schools
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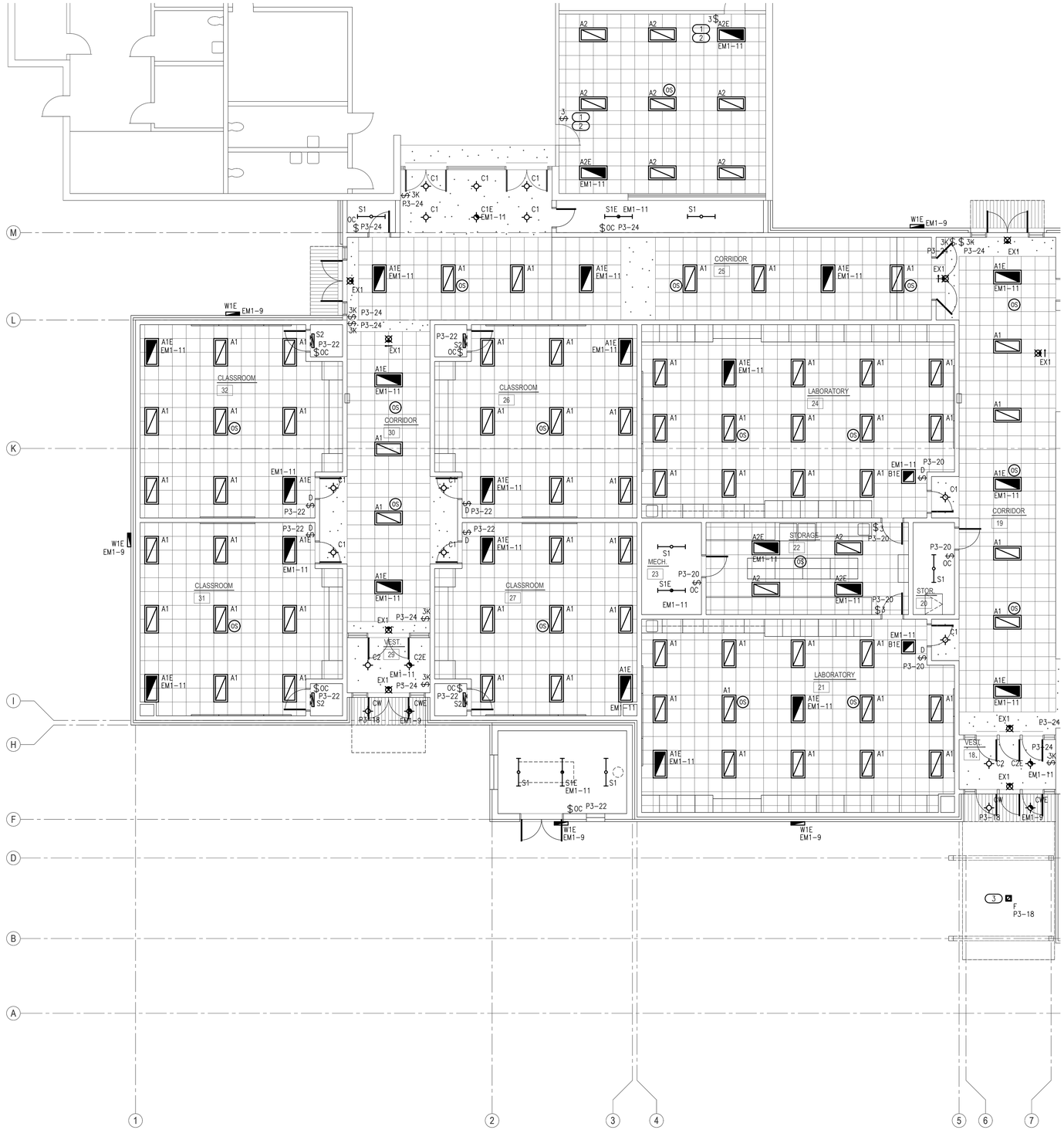
CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

E101

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: 2550-00564-00



1 ELECTRICAL POWER PLAN - AREA B

SCALE: 1/8" = 1'-0"

NORTH

LIGHTING GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3. COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4. COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
5. LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
6. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.
7. EXTERIOR LIGHTING SHALL BE CONTROLLED BY RELAY TO INTERLOCK WITH EXISTING EXTERIOR LIGHTING CONTROLS. EC SHALL FIELD INVESTIGATE AND REPORT ANY ANOMILIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

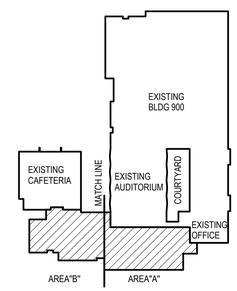
PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL.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

KEYED NOTES

(1) LIGHT FIXTURES IN THIS AREA, EXCLUDING EMERGENCY LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING. EXTEND WIRING AND CONDUIT AS NEEDED.

(2) EMERGENCY LIGHTING TO BE CIRCUITED TO NEW PANEL 'EM1' AS INDICATED. UL924 DEVICES, AS INDICATED IN LIGHT FIXTURE SCHEDULE, SHALL BE USED TO CONTROL EMERGENCY LIGHTS WITH EXISTING LIGHTING CIRCUITS AS INDICATED IN KEYED NOTE #1 ABOVE.

(3) COORDINATE LIGHT FIXTURE LOCATION AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.



KEYPLAN
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CENTRAL JUNIOR HIGH SCHOOL

sheet no:

E102

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2900 S. Telephone Road, Suite 120
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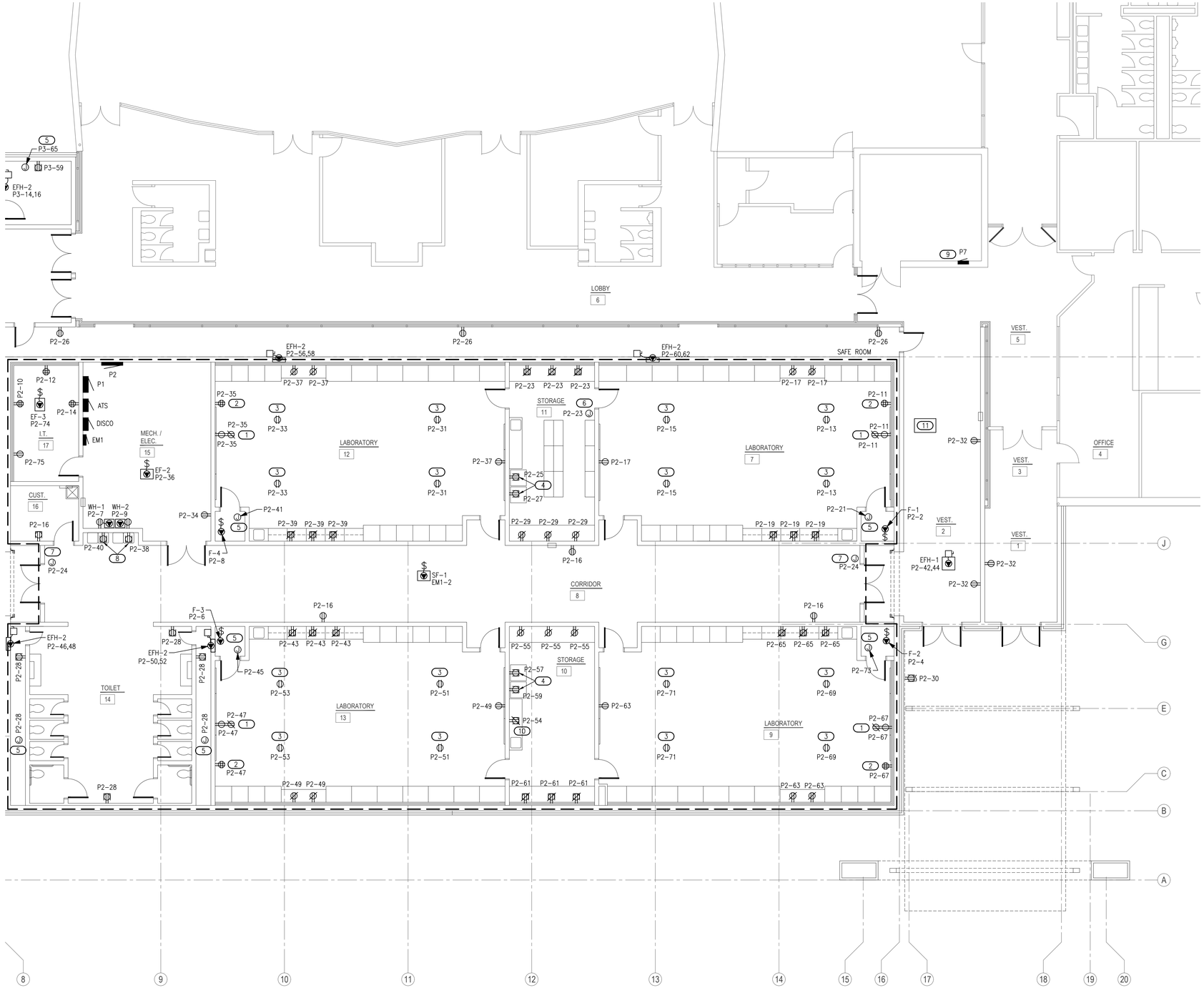


1 ELECTRICAL POWER PLAN - AREA A

SCALE: 1/8" = 1'-0"

NORTH

POWER GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
5. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
6. FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION.
7. ALL EXISTING PANELS AND ASSOCIATED BRANCH CIRCUITING BELIEVED TO BE MISSING GROUNDING ELECTRODE CONDUCTOR AND/OR EQUIPMENT GROUNDING CONDUCTORS. FOR PANELS BEING REPLACED, CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS AND PROVIDE NEW GROUNDING WIRES AS REQUIRED. REFER TO KEYED NOTE 9 FOR 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

(1) PROVIDE 120V CONNECTION FOR SMARTBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/1' FOR ADDITIONAL INFORMATION.

(2) APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/1' FOR ADDITIONAL INFORMATION.

(3) PROVIDE 120V DROP CORD RECEPTACLE FOR GENERAL USE. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/2 FOR ADDITIONAL INFORMATION.

(4) PROVIDE DEDICATED 120V RECEPTACLES FOR REFRIGERATOR & FREEZER. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.

(5) PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

(6) PROVIDE EMERGENCY NATURAL GAS SHUT-OFF SWITCH INTERLOCKED WITH NATURAL GAS SOLENOID VALVE. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

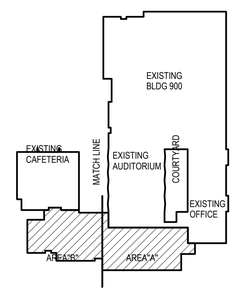
(7) PROVIDE 120V CONNECTION FOR DOOR HOLD-OPEN SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.

(8) PROVIDE 120V WATER COOLER CONNECTION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH THE ARCHITECT, OWNER, AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

(9) EXISTING BRANCH CIRCUITS TO BE RECONNECTED TO NEW PANEL. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO EXTEND CIRCUITS AS NEEDED. REFER TO GENERAL NOTES ABOVE, UPDATE GROUND WIRING AS REQUIRED.

(10) PROVIDE 120V DEDICATED CONNECTION FOR 3D PRINTER. COORDINATE EXACT LOCATION WITH THE OWNER ON SITE.

(11) MINI SPLIT INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR ON SITE.



KEYPLAN

NO SCALE

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OKLAHOMA PROFESSIONAL ENGINEER — TIMOTHY V. OSTRAN — 32660 — 05/15/25

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CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

E201

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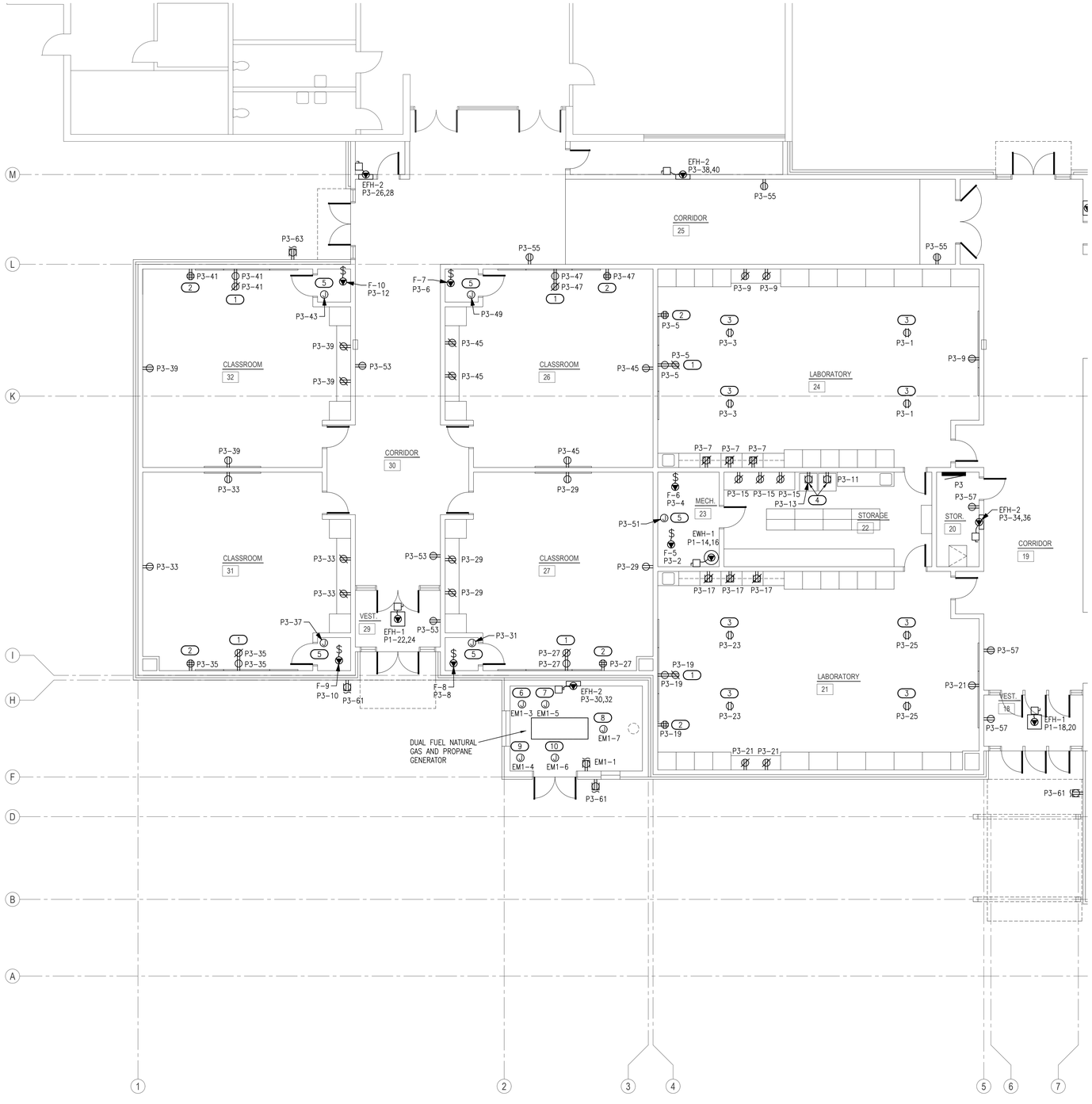
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2550-00564-00



POWER GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
5. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
6. 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:
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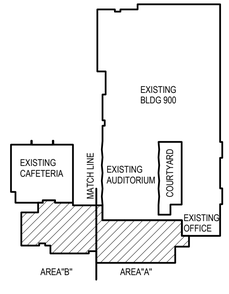
KEYED NOTES

1. PROVIDE 120V CONNECTION FOR SMARTBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/1' FOR ADDITIONAL INFORMATION.
2. APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/1' FOR ADDITIONAL INFORMATION.
3. PROVIDE 120V DROP CORD RECEPTACLE FOR GENERAL USE. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E502/2 FOR ADDITIONAL INFORMATION.
4. PROVIDE DEDICATED 120V RECEPTACLES FOR REFRIGERATOR & FREEZER. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
5. PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE 120V GENERATOR BLOCK HEATER CONNECTION.
7. PROVIDE 120V GENERATOR BATTERY HEATER CONNECTION.
8. PROVIDE 120V GENERATOR BATTERY CHARGER CONNECTION.
9. PROVIDE 120V CONNECTION FOR LP GAS SENSOR PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR ON SITE.
10. PROVIDE 120V CONNECTION FOR LP GAS SOLENOID VALVE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR ON SITE.



KEYPLAN
NO SCALE

1 ELECTRICAL POWER PLAN - AREA B
SCALE: 1/8" = 1'-0"

NORTH

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OKLAHOMA PROFESSIONAL ENGINEER
TIMOTHY VOSTRAN
32665
05/15/25

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CENTRAL JUNIOR HIGH SCHOOL

sheet no:
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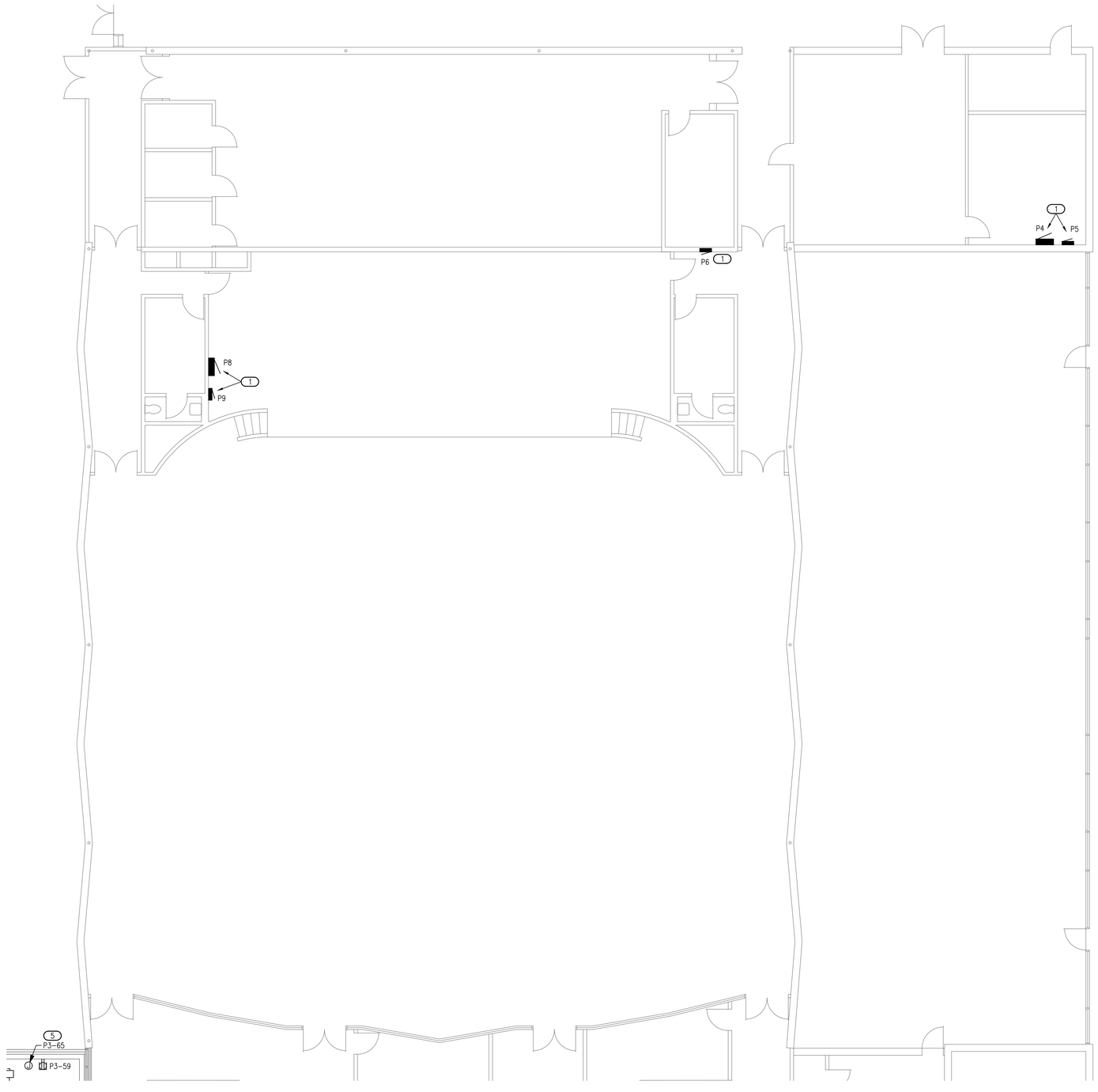
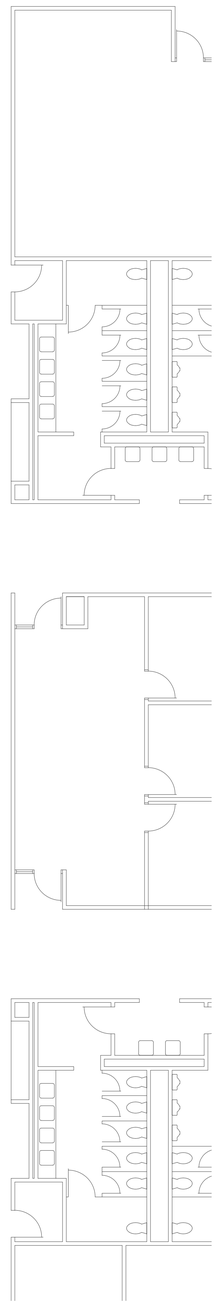
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2550-00564-00





POWER GENERAL NOTES

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3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
5. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
6. FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION
7. ALL EXISTING PANELS AND ASSOCIATED BRANCH CIRCUITING BELIEVED TO BE MISSING GROUNDING ELECTRODE CONDUCTOR AND/OR EQUIPMENT GROUNDING CONDUCTORS. FOR PANELS BEING REPLACED, CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS AND PROVIDE NEW GROUNDING WIRES AS REQUIRED. REFER TO KEYED NOTE #1 FOR ADDITIONAL INFORMATION.

SAFEROOM GENERAL NOTES

PER ICC 500–2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
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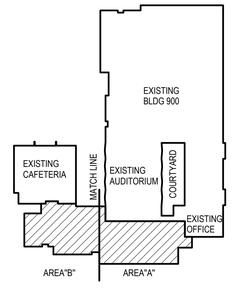
KEYED NOTES

(1) EXISTING BRANCH CIRCUITS TO BE RECONNECTED TO NEW PANEL. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO EXTEND CIRCUITS AS NEEDED. REFER TO GENERAL NOTES ABOVE, UPDATE GROUND WIRING AS REQUIRED.



KEYPLAN
NO SCALE

1 ELECTRICAL POWER PLAN - EXISTING AUDITORIUM

SCALE: 1/8" = 1'-0"

NORTH

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sheet no:

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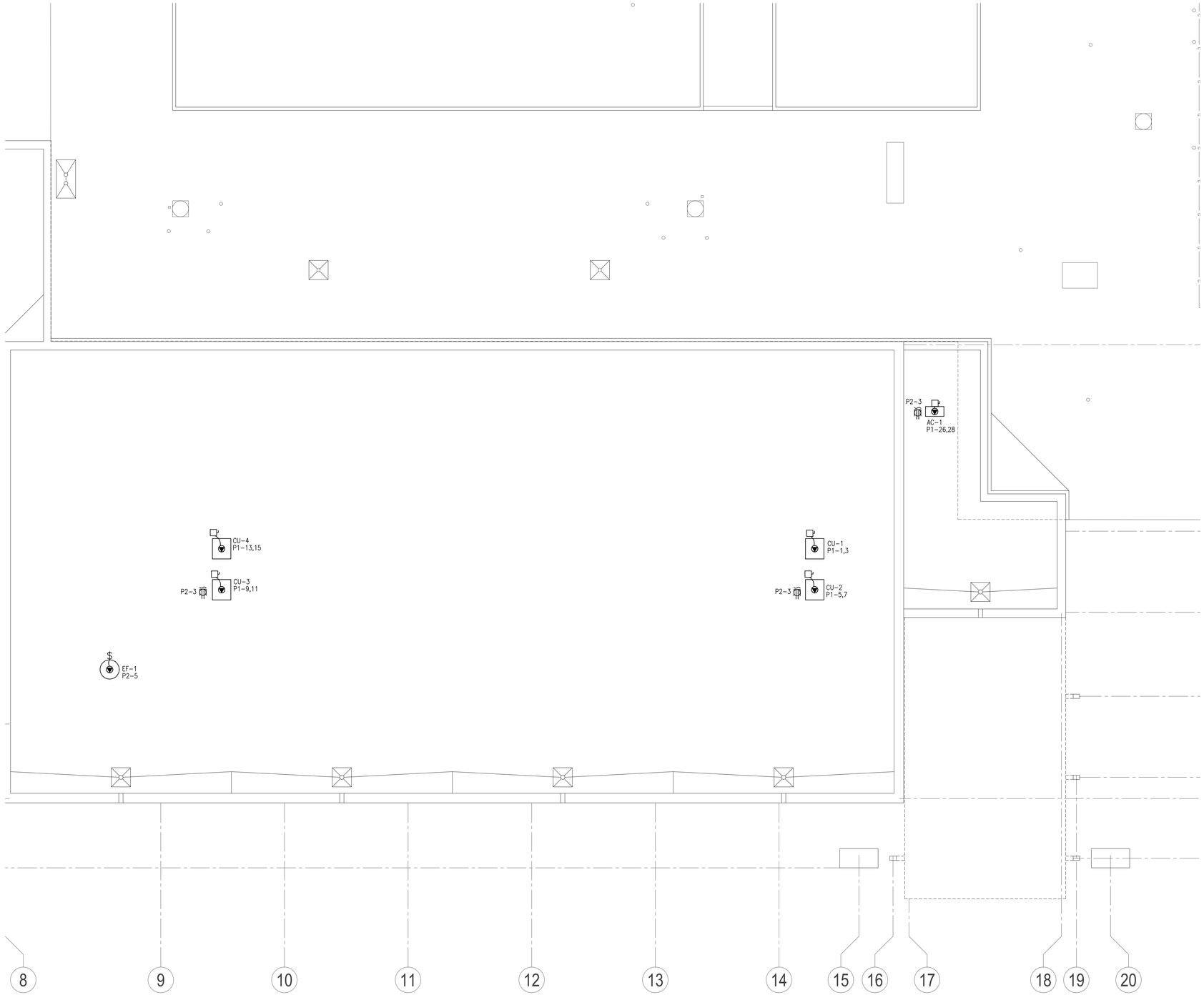

ROOF POWER GENERAL NOTES

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.

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

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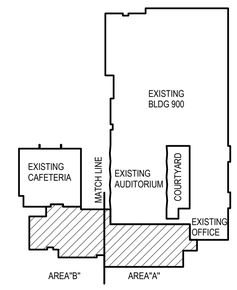

KEYPLAN
NO SCALE

1 ELECTRICAL ROOF PLAN - AREA A
SCALE: 1/8" = 1'-0"

NORTH

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sheet no:

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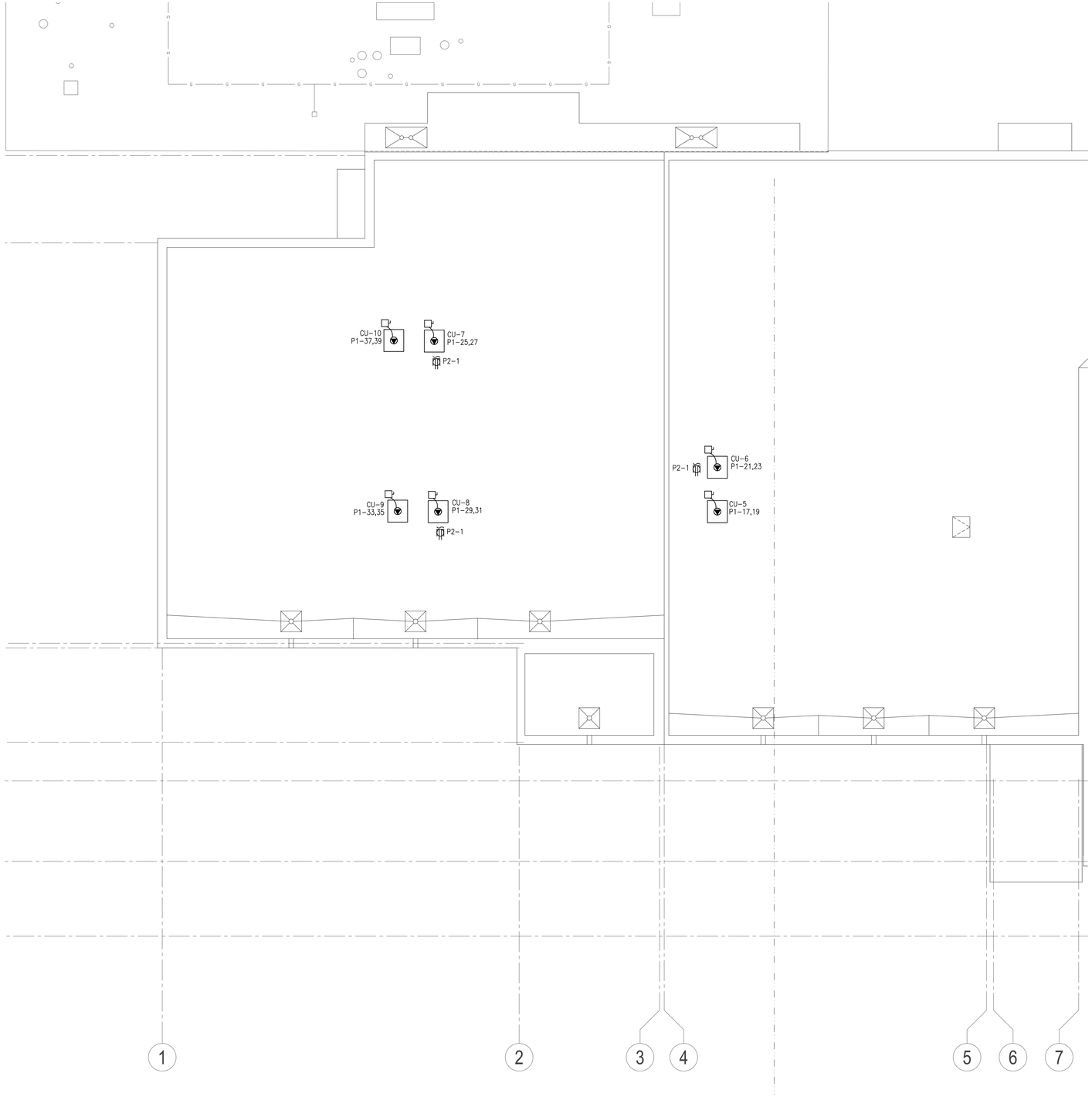

1 ELECTRICAL ROOF PLAN - AREA B

SCALE: 1/8" = 1'-0"

NORTH

ROOF POWER 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.

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
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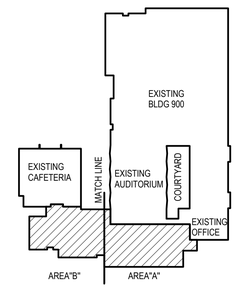

KEYPLAN

NO SCALE

AGP
the Abla Griffin Partnership L.L.C.

313 S. E. 5th Street
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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
drawn by

TVO
checked by

APRIL 2025
date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA

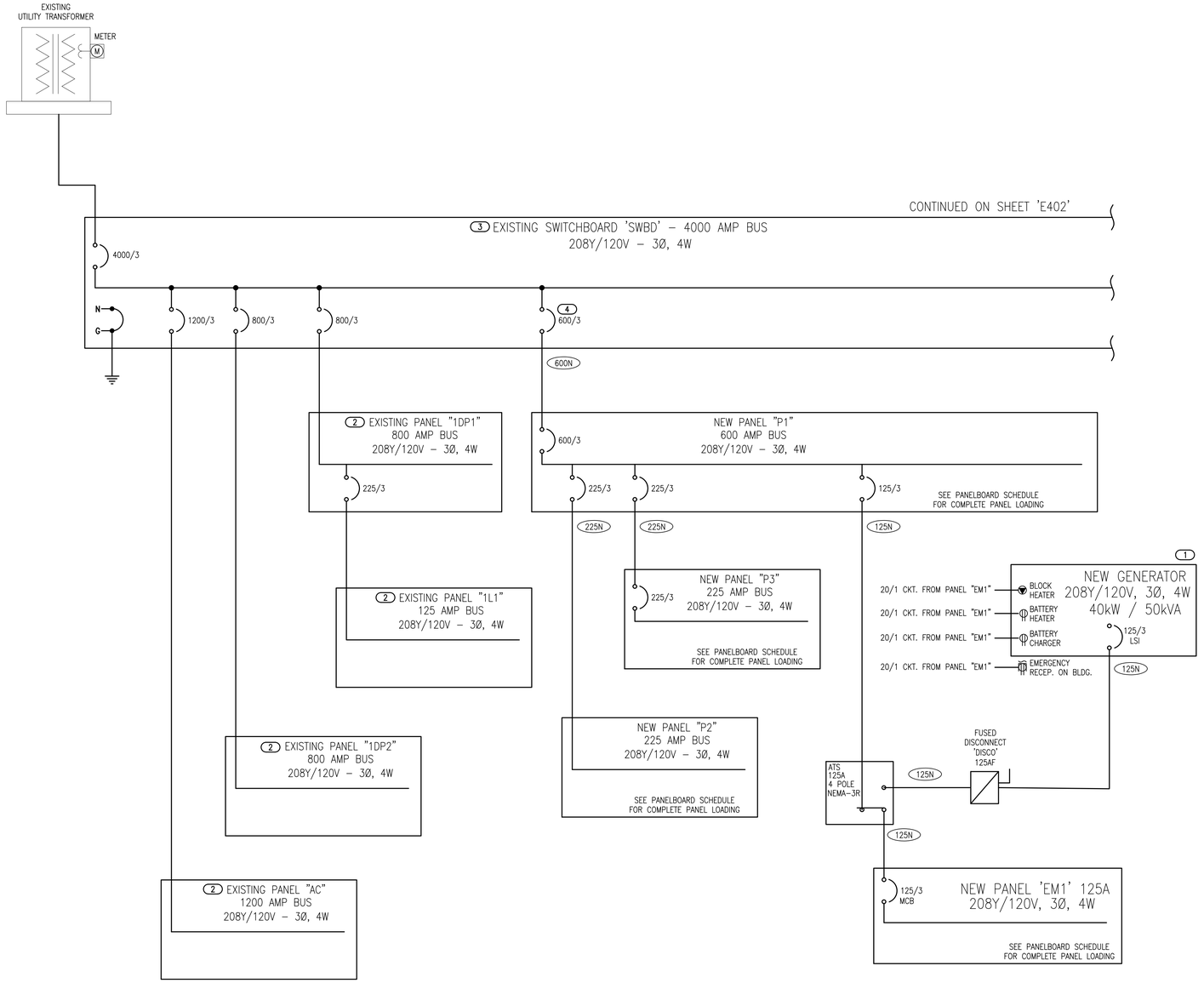
MOORE Public Schools
LEARNING FOR LIFE

CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

E205

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: 2550-00564-00



1 ONE-LINE DIAGRAM - PART ONE

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

1. AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
2. EXISTING PANELS AND ALL ASSOCIATED CIRCUITING BELIEVED TO BE MISSING GROUNDING ELECTRODE CONDUCTOR AND/OR EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS AND PROVIDE NEW GROUNDING WIRES AS REQUIRED.

KEYED NOTES

1. GENERATOR SHALL BE DUAL FUEL – NATURAL GAS AND PROPANE. GENERATOR SHALL HAVE FUEL TYPE AUTOMATIC SWITCHOVER CAPABILITY.
2. EXISTING PANEL TO REMAIN. NO ASSOCIATED WORK.
3. EXISTING SWITCHBOARD 'SIEMENS SB-3, SN# 17-29056-C10'.
4. PROVIDE NEW BREAKER IN EXISTING GEAR AS INDICATED.

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BOARD OF EDUCATION
MOORE, OKLAHOMA

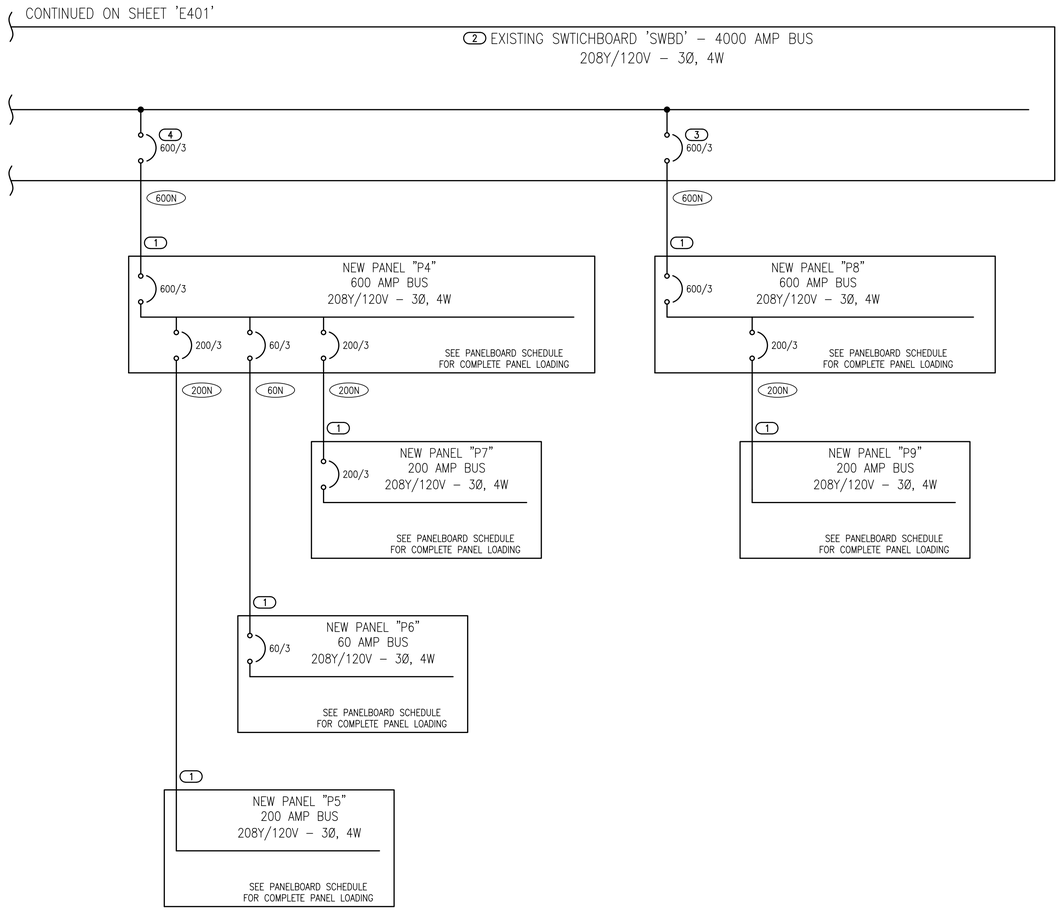
MOORE Public Schools
LEARNING FOR LIFE

CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

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: 2550-00564-00



1 ONE-LINE DIAGRAM - PART TWO

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:

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GENERAL NOTES

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2. EXISTING PANELS AND ALL ASSOCIATED CIRCUITING BELIEVED TO BE MISSING GROUNDING ELECTRODE CONDUCTOR AND/OR EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS AND PROVIDE NEW GROUNDING WIRES AS REQUIRED.

KEYED NOTES

(1) PROVIDE NEW WIRING AND CONDUIT TO REPLACE EXISTING PANEL FEED. EXISTING WIRE AND CONDUIT MAY BE REUSED WHERE IN SERVICEABLE CONDITION. REFER TO GENERAL NOTES ABOVE, UPDATE GROUND WIRING AS REQUIRED. ALL MATERIALS SHALL BE WARRANTIED AS IF NEW.

(2) EXISTING SWITCHBOARD 'SIEMENS SB-3, SN# 17-29056-C10'.

(3) EXISTING 600A 3P BREAKER LABELED AS FEEDING PANEL 'S'.

(4) PROVIDE NEW BREAKER IN EXISTING GEAR AS INDICATED.

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CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

E402

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
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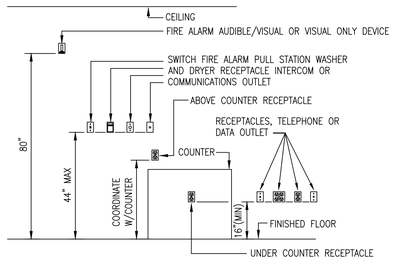
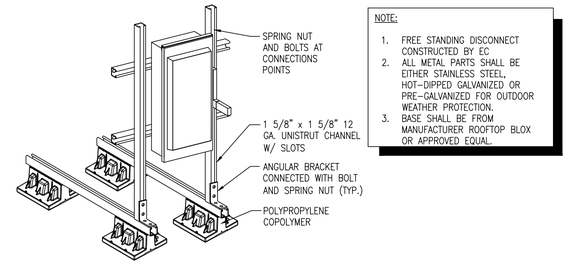
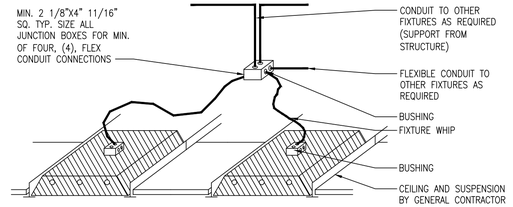
Salas O'Brien Project Number: 2550-00564-00



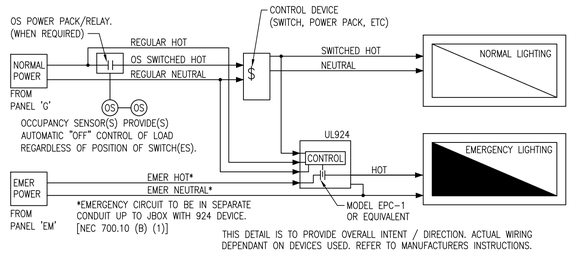
3 TYP OUTLET MOUNTING DETAIL
NO SCALE



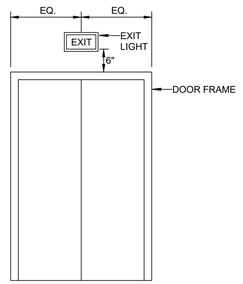
2 DISCONNECT ROOF MOUNTING DETAIL
NO SCALE



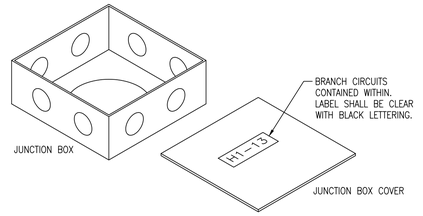
1 TYP.TROFFER POWER DETAIL
NO SCALE



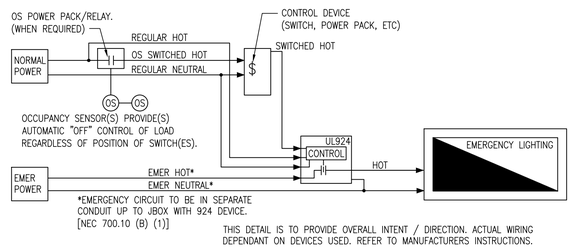
6 EMERGENCY LIGHTING CONTROL
NO SCALE



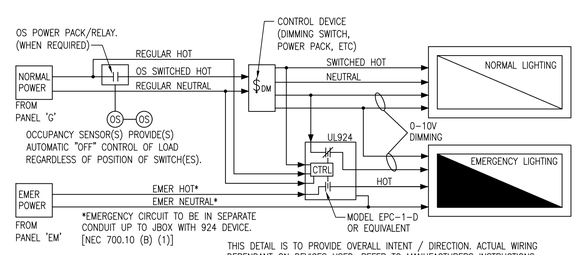
5 TYP. EXIT SIGN LOCATION DETAIL
NO SCALE



4 JUNCTION BOX LABELING DETAIL
NO SCALE



8 FIXTURES POWERED ONLY FROM EM POWER EMERGENCY LIGHTING CONTROL
NO SCALE



7 EMERGENCY LIGHTING CONTROL (WITH DIMMING)
NO SCALE

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CENTRAL JUNIOR HIGH SCHOOL

sheet no:

E501

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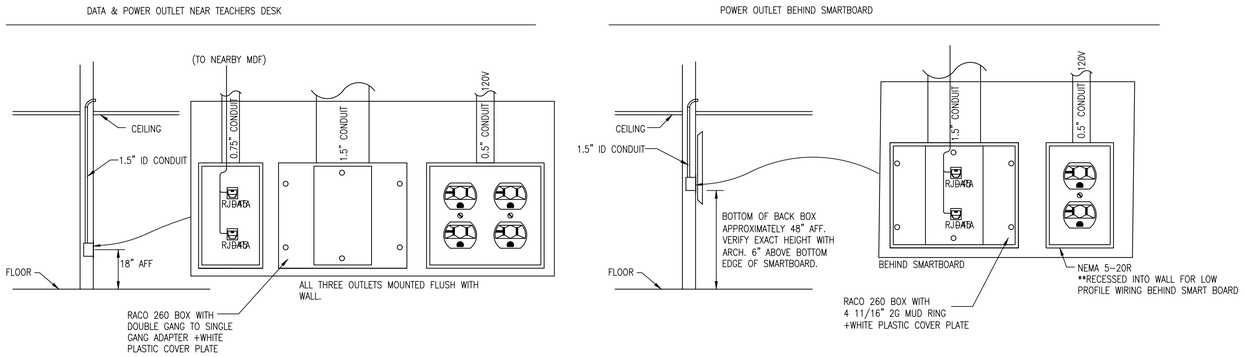
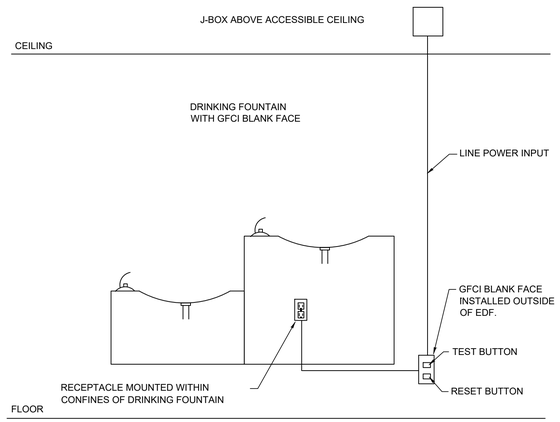
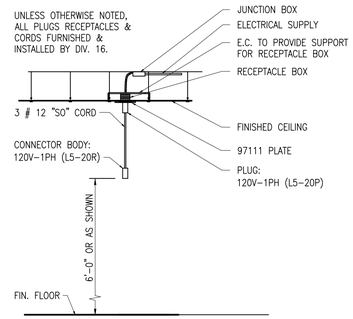


1 TEACHERS DESK & SMART BOARD WIRING DETAIL
NO SCALE



3 TYP. ELECTRICAL DRINKING FOUNTAIN DETAIL
NO SCALE



2 DROP CORD RECEPTACLE
NO SCALE

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sheet no:

E502

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Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2550-00564-00

P3

Panel P3 | ROOM | MOUNTING SURFACE | FED FROM P1 | NOTE [DOUBLE TUB] | VOLTS 208Y/120V 3P 4W | BUS AMPS 225 | NEUTRAL 100% | AIC 65,000 | MAIN BKR 225 | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.36	RM 24 RECEPTACLE	a	2	20/1	1.92	F-5
3	20/1	0.36	RM 24 RECEPTACLE	b	4	20/1	1.66	F-6
5	20/1	0.72	RM 24 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	6	20/1	1.18	F-7
7	20/1	0.54	RM 24 RECEPTACLE	a	8	20/1	1.18	F-8
9	20/1	0.54	RM 24 RECEPTACLE	b	10	20/1	1.18	F-9
11	20/1	0.8	RM 22 FREEZER	c	12	20/1	1.18	F-10
13	20/1	0.8	RM 22 REFRIGERATOR	a	14	20/2	2	EFH-2
15	20/1	0.54	RM 22 RECEPTACLE	b	16	|	|	
17	20/1	0.54	RM 21 RECEPTACLE	c	18	20/1	0.4	LIGHTING
19	20/1	0.72	RM 21 RECEPTACLE, SMARTBOARD, TEACHER DESK	a	20	20/1	1.29	LIGHTING
21	20/1	0.54	RM 21 RECEPTACLE	b	22	20/1	1.41	LIGHTING
23	20/1	0.36	RM 21 RECEPTACLE	c	24	20/1	0.883	LIGHTING
25	20/1	0.36	RM 21 RECEPTACLE	a	26	20/2	2	EFH-2
27	20/1	0.72	RM 27 RECEPTACLE, SMARTBOARD, TEACHER DESK	b	28	|	|	
29	20/1	0.72	RM 27 RECEPTACLE	c	30	20/2	2	EFH-2
31	20/1	0.1	TRAP PRIMER	a	32	|	|	
33	20/1	0.72	RM 31 RECEPTACLE	b	34	20/2	2	EFH-2
35	20/1	0.72	RM 31 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	36	|	|	
37	20/1	0.1	TRAP PRIMER	a	38	20/2	2	EFH-2
39	20/1	0.72	RM 32 RECEPTACLE	b	40	|	|	
41	20/1	0.72	RM 32 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	42	20/1	0	SPACE
43	20/1	0.1	TRAP PRIMER	a	44	20/1	0	SPACE
45	20/1	0.72	RM 26 RECEPTACLE	b	46	20/1	0	SPACE
47	20/1	0.72	RM 26 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	48	20/1	0	SPACE
49	20/1	0.1	TRAP PRIMER	a	50	20/1	0	SPACE
51	20/1	0.1	TRAP PRIMER	b	52	20/1	0	SPACE
53	20/1	0.54	CORRIDOR 30 RECEPTACLE, RM 29 RECEPTACLE	c	54	20/1	0	SPACE
55	20/1	0.54	CORRIDOR 25 RECEPTACLE	a	56	20/1	0	SPACE
57	20/1	0.54	CORRIDOR 19 RECEPTACLE, RM 18 RECEPTACLE, RM 20 RECEPTACLE	b	58	20/1	0	SPACE
59	20/1	0.18	FIRE ALARM CONTROL PANEL	c	60	20/1	0	SPACE
61	20/1	0.54	EXTERIOR RECEPTACLE	a	62	20/1	0	SPACE
63	20/1	0.18	EXTERIOR RECEPTACLE	b	64	20/1	0	SPACE
65	20/1	0.1	TRAP PRIMER	c	66	20/1	0	SPACE
67	20/1	0	SPACE	a	68	20/1	0	SPACE
69	20/1	0	SPACE	b	70	20/1	0	SPACE
71	20/1	0	SPACE	c	72	20/1	0	SPACE
73	20/1	0	SPACE	a	74	20/1	0	SPACE
75	20/1	0	SPACE	b	76	20/1	0	SPACE
77	20/1	0	SPACE	c	78	20/1	0	SPACE
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			CONN KVA	CALC KVA	
LIGHTING	3.98	4.98	(125%)	MOTORS	8.28	8.28	(100%)
LARGEST MOTOR	1.92	0.48	(25%)	RECEPTACLES	16.1	13	(50%>10)
				HEATING	10	10	(100%)
				TOTAL LOAD		36.8	
				BALANCED 3-PHASE LOAD		102 A	
				PHASE A		99.1%	
				PHASE B		109%	
				PHASE C		91.8%	

P2

Panel P2 | ROOM | MOUNTING SURFACE | FED FROM P1 | NOTE [DOUBLE TUB] | VOLTS 208Y/120V 3P 4W | BUS AMPS 225 | NEUTRAL 100% | AIC 65,000 | MAIN BKR MLO | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.54	ROOFTOP RECEPTACLE	a	2	20/1	1.66	F-1
3	20/1	0.54	ROOFTOP RECEPTACLE	b	4	20/1	1.92	F-2
5	20/1	0.24	EF-1	c	6	20/1	1.92	F-3
7	20/1	0.1	WH-1	a	8	20/1	1.66	F-4
9	20/1	0.1	WH-2	b	10	20/1	0.36	I.T. RECEPTACLE
11	20/1	0.72	RM 7 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	12	20/1	0.36	I.T. RECEPTACLE
13	20/1	0.36	RM 7 RECEPTACLE	a	14	20/1	0.36	I.T. RECEPTACLE
15	20/1	0.36	RM 7 RECEPTACLE	b	16	20/1	0.72	CORRIDOR 8 RECEPTACLE, RM 16 RECEPTACLE
17	20/1	0.54	RM 7 RECEPTACLE	c	18	20/1	1.5	LIGHTING
19	20/1	0.54	RM 7 RECEPTACLE	a	20	20/1	1.84	LIGHTING
21	20/1	0.1	TRAP PRIMER	b	22	20/1	0.21	LIGHTING
23	20/1	0.59	GAS SOLENOID VALVE, RM 11 RECEPTACLE	c	24	20/1	0.02	DOOR HOLD-OPEN SYSTEM
25	20/1	0.8	RM 11 FREEZER	a	26	20/1	0.54	CHASE RECEPTACLE
27	20/1	0.8	RM 11 REFRIGERATOR	b	28	20/1	0.92	PLUMBING CHASE RECEPTACLE, RM 14 RECEPTACLE, TRAP PRIMER
29	20/1	0.54	RM 11 RECEPTACLE	c	30	20/1	0.18	EXTERIOR RECEPTACLE
31	20/1	0.36	RM 12 RECEPTACLE	a	32	20/1	0.54	RECEPTACLE, RM 1 RECEPTACLE, RM 2 RECEPTACLE
33	20/1	0.36	RM 12 RECEPTACLE	b	34	20/1	0.18	RM 15 RECEPTACLE
35	20/1	0.72	RM 12 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	36	20/1	0.24	EF-2
37	20/1	0.54	RM 12 RECEPTACLE	a	38	20/1	0.5	WATER COOLER
39	20/1	0.54	RM 12 RECEPTACLE	b	40	20/1	0.5	WATER COOLER
41	20/1	0.1	TRAP PRIMER	c	42	20/2	2	EFH-1
43	20/1	0.54	RM 13 RECEPTACLE	a	44	|	|	
45	20/1	0.1	TRAP PRIMER	b	46	20/2	2	EFH-2
47	20/1	0.72	RM 13 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	48	|	|	
49	20/1	0.54	RM 13 RECEPTACLE	a	50	20/2	2	EFH-2
51	20/1	0.36	RM 13 RECEPTACLE	b	52	|	|	
53	20/1	0.36	RM 13 RECEPTACLE	c	54	20/1	1.2	3D PRINTER
55	20/1	0.54	RM 10 RECEPTACLE	a	56	20/2	2	EFH-2
57	20/1	0.8	RM 10 FREEZER	b	58	|	|	
59	20/1	0.8	RM 10 REFRIGERATOR	c	60	20/2	2	EFH-2
61	20/1	0.54	RM 10 RECEPTACLE	a	62	|	|	
63	20/1	0.54	RM 9 RECEPTACLE	b	64	20/2	0.798	LIGHTING
65	20/1	0.54	RM 9 RECEPTACLE	c	66	|	|	
67	20/1	0.72	RM 9 RECEPTACLE, SMARTBOARD, TEACHER DESK	a	68	20/2	0.665	LIGHTING
69	20/1	0.36	RM 9 RECEPTACLE	b	70	|	|	
71	20/1	0.36	RM 9 RECEPTACLE	c	72	20/1	0.3	LIGHTING
73	20/1	0.1	TRAP PRIMER	a	74	20/1	0.168	EF-3
75	20/1	0.18	ACP	b	76	20/1	0	SPACE
77	20/1	0	SPACE	c	78	20/1	0	SPACE
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			CONN KVA	CALC KVA	
LIGHTING	5.31	6.64	(125%)	MOTORS	8	8	(100%)
LARGEST MOTOR	1.92	0.48	(25%)	RECEPTACLES	23.5	16.8	(50%>10)
				HEATING	10	10	(100%)
				TOTAL LOAD		41.9	
				BALANCED 3-PHASE LOAD		116 A	
				PHASE A		114%	
				PHASE B		87.7%	
				PHASE C		98.3%	

P1

Panel P1 | ROOM | MOUNTING SURFACE | FED FROM UTILITY | NOTE | VOLTS 208Y/120V 3P 4W | BUS AMPS 600 | NEUTRAL 100% | AIC 65,000 | MAIN BKR 600 | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	45/2	4.66	CU-1	a	2	225/3	46.8	PANEL P2
3	|	|		b	4	|	|	
5	50/2	5.32	CU-2	c	6	|	|	
7	|	|		a	8	225/3	38.3	PANEL P3
9	50/2	5.32	CU-3	b	10	|	|	
11	|	|		c	12	|	|	
13	45/2	4.66	CU-4	a	14	30/2	4.5	EWH-1
15	|	|		b	16	|	|	
17	50/2	5.32	CU-5	c	18	20/2	2	EFH-1
19	|	|		a	20	|	|	
21	45/2	4.66	CU-6	b	22	20/2	2	EFH-1
23	|	|		c	24	|	|	
25	35/2	3.49	CU-7	a	26	20/2	2.33	AC-1
27	|	|		b	28	|	|	
29	35/2	3.49	CU-8	c	30	20/1	0	SPACE
31	|	|		a	32	20/1	0	SPACE
33	35/2	3.49	CU-9	b	34	20/1	0	SPACE
35	|	|		c	36	20/1	0	SPACE
37	35/2	3.49	CU-10	a	38	20/1	0	SPACE
39	|	|		b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	9.29	11.6	(125%)	MOTORS	67	67	(100%)
LARGEST MOTOR	5.32	1.33	(25%)	RECEPTACLES	39.6	24.8	(50%>10)
				HEATING	24	24	(100%)
				TOTAL LOAD		129	
				BALANCED 3-PHASE LOAD		357 A	
				PHASE A		107%	
				PHASE B		101%	
				PHASE C		91.8%	

EM1

Panel EM1 | ROOM | MOUNTING SURFACE | FED FROM UTILITY | NOTE | VOLTS 208Y/120V 3P 4W | BUS AMPS 125 | NEUTRAL 100% | AIC 65,000 | MAIN BKR 125 | LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.18	RECEPTACLE	a	2	20/1	1.06	SF-1
3	20/1	0.5	BLOCK HEATER	b	4	20/1	0.1	LP GAS SENSOR PANEL
5	20/1	0.5	BATTERY HEATER	c	6	20/1	0.05	LP GAS SOLENOID VALVE
7	20/1	0.5	BATTERY CHARGER	a	8	20/1	0	SPACE
9	20/1	0.266	LIGHTING	b	10	20/1	0	SPACE
11	20/1	1.23	LIGHTING	c	12	20/1	0	SPACE
13	20/1	1.09	LIGHTING	a	14	20/1	0	SPACE
15	20/1	0.713	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
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	3.3	4.13	(125%)	MOTORS	1.06	1.06	(100%)
LARGEST MOTOR	1.06	0.264	(25%)	RECEPTACLES	1.83	1.83	(50%>10)
				TOTAL LOAD		7.28	
				BALANCED 3-PHASE LOAD		20.2 A	
				PHASE A		137%	
				PHASE B		76.5%	
				PHASE C		86.4%	

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SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
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TVO
checked by
APRIL 2025
date
revisions

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MOORE Public Schools
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CLASSROOM ADDITION
CENTRAL JUNIOR
HIGH SCHOOL

sheet no:

E601

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: 2550-00564-00

Panel P7

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING RECESSED | BUS AMPS 200 | MAIN BKR 200
FED FROM P4 | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0	EXISTING	a	2	20/1	0	EXISTING
3	20/1	0	EXISTING	b	4	20/1	0	EXISTING
5	20/1	0	EXISTING	c	6	20/1	0	EXISTING
7	20/1	0	EXISTING	a	8	20/1	0	EXISTING
9	20/1	0	EXISTING	b	10	20/1	0	EXISTING
11	20/1	0	EXISTING	c	12	20/1	0	EXISTING
13	20/1	0	EXISTING	a	14	20/1	0	EXISTING
15	20/1	0	EXISTING	b	16	20/1	0	EXISTING
17	20/1	0	EXISTING	c	18	20/1	0	EXISTING
19	20/1	0	EXISTING	a	20	20/1	0	EXISTING
21	20/1	0	EXISTING	b	22	20/1	0	EXISTING
23	20/1	0	EXISTING	c	24	20/1	0	EXISTING
25	20/1	0	EXISTING	a	26	20/1	0	EXISTING
27	20/1	0	EXISTING	b	28	20/1	0	EXISTING
29	20/1	0	EXISTING	c	30	20/1	0	EXISTING
31	20/1	0	EXISTING	a	32	20/1	0	EXISTING
33	20/1	0	EXISTING	b	34	20/1	0	EXISTING
35	20/1	0	EXISTING	c	36	20/1	0	EXISTING
37	20/1	0	EXISTING	a	38	20/1	0	EXISTING
39	20/1	0	EXISTING	b	40	20/1	0	EXISTING
41	20/1	0	EXISTING	c	42	20/1	0	EXISTING
43	20/1	0	EXISTING	a	44	20/1	0	EXISTING
45	20/1	0	EXISTING	b	46	20/1	0	EXISTING
47	20/1	0	EXISTING	c	48	20/1	0	EXISTING
49	20/1	0	EXISTING	a	50	20/1	0	EXISTING
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

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

Panel P6

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING RECESSED | BUS AMPS 60 | MAIN BKR 60
FED FROM P4 | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0	EXISTING	a	2	20/1	0	EXISTING
3	20/1	0	EXISTING	b	4	20/1	0	EXISTING
5	20/1	0	EXISTING	c	6	20/1	0	EXISTING
7	20/1	0	EXISTING	a	8	20/1	0	EXISTING
9	20/1	0	EXISTING	b	10	20/1	0	EXISTING
11	20/1	0	EXISTING	c	12	20/1	0	EXISTING
13	20/1	0	EXISTING	a	14	20/1	0	EXISTING
15	20/1	0	EXISTING	b	16	20/1	0	EXISTING
17	20/1	0	EXISTING	c	18	20/1	0	EXISTING
19	20/1	0	EXISTING	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

CONN KVA | CALC KVA

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

Panel P5

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 200 | MAIN BKR MLO
FED FROM P4 | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0	EXISTING	a	2	20/1	0	EXISTING
3	20/1	0	EXISTING	b	4	20/1	0	EXISTING
5	20/1	0	EXISTING	c	6	20/1	0	EXISTING
7	20/1	0	EXISTING	a	8	20/1	0	EXISTING
9	20/1	0	EXISTING	b	10	20/1	0	EXISTING
11	20/1	0	EXISTING	c	12	20/1	0	EXISTING
13	20/1	0	EXISTING	a	14	20/1	0	EXISTING
15	20/1	0	EXISTING	b	16	20/1	0	EXISTING
17	20/1	0	EXISTING	c	18	20/1	0	EXISTING
19	20/1	0	EXISTING	a	20	20/1	0	EXISTING
21	20/1	0	EXISTING	b	22	20/1	0	EXISTING
23	20/1	0	EXISTING	c	24	20/1	0	EXISTING
25	20/1	0	EXISTING	a	26	20/1	0	EXISTING
27	20/1	0	EXISTING	b	28	20/1	0	EXISTING
29	20/1	0	EXISTING	c	30	20/1	0	EXISTING
31	20/1	0	EXISTING	a	32	20/1	0	EXISTING
33	20/1	0	EXISTING	b	34	20/1	0	EXISTING
35	20/1	0	EXISTING	c	36	20/1	0	EXISTING
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

CONN KVA | CALC KVA

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

Panel P4

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 600 | MAIN BKR 600
FED FROM UTILITY | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	200/3	0	PANEL P5	a	2	60/3	0	PANEL P6
3	|			b	4	|		
5	|			c	6	|		
7	200/3	0	PANEL P7	a	8	30/3	0	EXISTING
9	|			b	10	|		
11	|			c	12	|		
13	30/3	0	EXISTING	a	14	60/3	0	EXISTING
15	|			b	16	|		
17	|			c	18	|		
19	60/3	0	EXISTING	a	20	20/1	0	SPACE
21	|			b	22	20/1	0	SPACE
23	|			c	24	20/1	0	SPACE
25	60/3	0	EXISTING	a	26	20/1	0	SPACE
27	|			b	28	20/1	0	SPACE
29	|			c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

CONN KVA | CALC KVA

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

Panel P9

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING RECESSED | BUS AMPS 200 | MAIN BKR MLO
FED FROM P8 | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0	EXISTING	a	2	20/1	0	EXISTING
3	20/1	0	EXISTING	b	4	20/1	0	EXISTING
5	20/1	0	EXISTING	c	6	20/1	0	EXISTING
7	20/1	0	EXISTING	a	8	20/1	0	EXISTING
9	20/1	0	EXISTING	b	10	20/1	0	EXISTING
11	20/1	0	EXISTING	c	12	20/1	0	EXISTING
13	20/1	0	EXISTING	a	14	20/1	0	EXISTING
15	20/1	0	EXISTING	b	16	20/1	0	EXISTING
17	20/1	0	EXISTING	c	18	20/1	0	EXISTING
19	20/1	0	EXISTING	a	20	20/1	0	EXISTING
21	20/1	0	EXISTING	b	22	20/1	0	EXISTING
23	40/3	0	EXISTING	c	24	40/3	0	EXISTING
25	|			a	26	|		
27	|			b	28	|		
29	40/3	0	EXISTING	c	30	20/1	0	SPACE
31	|			a	32	20/1	0	SPACE
33	|			b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

CONN KVA | CALC KVA

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

Panel P8

ROOM | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 600 | MAIN BKR 600
FED FROM UTILITY | NEUTRAL 100% | LUGS STANDARD
NOTE CONFIRM EXISTING LOADS AND UPDATE PANEL DIRECTIORY ACCORDINGLY.

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	200/3	0	PANEL P9	a	2	250/3	0	EXISTING
3	|			b	4	|		
5	|			c	6	|		
7	250/3	0	EXISTING	a	8	20/1	0	EXISTING
9	|			b	10	20/1	0	EXISTING
11	|			c	12	20/1	0	EXISTING
13	175/3	0	EXISTING	a	14	20/1	0	EXISTING
15	|			b	16	20/1	0	EXISTING
17	|			c	18	20/1	0	EXISTING
19	20/1	0	EXISTING	a	20	20/1	0	EXISTING
21	20/1	0	EXISTING	b	22	20/1	0	EXISTING
23	20/1	0	EXISTING	c	24	20/1	0	EXISTING
25	20/1	0	EXISTING	a	26	20/1	0	EXISTING
27	20/1	0	EXISTING	b	28	20/1	0	EXISTING
29	20/1	0	EXISTING	c	30	20/1	0	EXISTING
31	20/1	0	EXISTING	a	32	20/1	0	EXISTING
33	20/1	0	EXISTING	b	34	20/1	0	EXISTING
35	20/1	0	EXISTING	c	36	20/1	0	EXISTING
37	20/1	0	EXISTING	a	38	20/1	0	EXISTING
39	20/1	0	EXISTING	b	40	20/1	0	EXISTING
41	20/1	0	EXISTING	c	42	20/1	0	EXISTING
43	20/1	0	SPACE	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

	CALC KVA
TOTAL LOAD	0
BALANCED 3-PHASE LOAD	0 A
PHASE A	0.00%
PHASE B	0.00%
PHASE C	0.00%

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sheet no:

E602

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: 2550-00564-00

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
AC-1	MINI SPLIT	208V 2P 2W		2.33	14	20	P1-26,28	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-1	CONDENSING UNIT	208V 2P 2W		4.66	28	45	P1-1,3	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-2	CONDENSING UNIT	208V 2P 2W		5.32	32	50	P1-5,7	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-3	CONDENSING UNIT	208V 2P 2W		5.32	32	50	P1-9,11	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-4	CONDENSING UNIT	208V 2P 2W		4.66	28	45	P1-13,15	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-5	CONDENSING UNIT	208V 2P 2W		5.32	32	50	P1-17,19	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-6	CONDENSING UNIT	208V 2P 2W		4.66	28	45	P1-21,23	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-7	CONDENSING UNIT	208V 2P 2W		3.49	21	35	P1-25,27	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-8	CONDENSING UNIT	208V 2P 2W		3.49	21	35	P1-29,31	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-9	CONDENSING UNIT	208V 2P 2W		3.49	21	35	P1-33,35	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-10	CONDENSING UNIT	208V 2P 2W		3.49	21	35	P1-37,39	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W		0.24			P2-5	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W		0.24			P2-36	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W		0.17			P2-74	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P2-42,44	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P1-18,20	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P1-22,24	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P3-14,16	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P2-46,48	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P2-50,52	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P3-26,28	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P2-56,58	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P2-60,62	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P3-34,36	3/4"C,2#12,#12G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P3-38,40	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			P3-30,32	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EWH-1	ELECTRIC WATER HEATER	208V 2P 2W		4.5			P1-14,16	3/4"C,2#10,#10G	NON-FUSED	EC	EC
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66			P2-2	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
F-2	GAS FURNACE	120V 1P 2W	1 HP	1.92			P2-4	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
F-3	GAS FURNACE	120V 1P 2W	1 HP	1.92			P2-6	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
F-4	GAS FURNACE	120V 1P 2W	3/4 HP	1.66			P2-8	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
F-5	GAS FURNACE	120V 1P 2W	1 HP	1.92			P3-2	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
F-6	GAS FURNACE	120V 1P 2W	3/4 HP	1.66			P3-4	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
F-7	GAS FURNACE	120V 1P 2W	1/2 HP	1.18			P3-6	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
F-8	GAS FURNACE	120V 1P 2W	1/2 HP	1.18			P3-8	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
F-9	GAS FURNACE	120V 1P 2W	1/2 HP	1.18			P3-10	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
F-10	GAS FURNACE	120V 1P 2W	1/2 HP	1.18			P3-12	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
SF-1	SUPPLY FAN	120V 1P 2W		1.06			EM1-2	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
WH-1	WATER HEATER	120V 1P 2W		0.1			P2-7	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W		0.1			P2-9	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

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