

**SCOPE OF WORK**

REUSE EXISTING ELECTRICAL SERVICE, METER, DISCONNECT SWITCH, FEEDER AND EXISTING PANELS "A" AND "B" FOR RESTAURANT SPACE. PROVIDE NEW 125A, 240/120V, 3-PHASE ELECTRICAL PANEL "C" AND ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE NEW RESTAURANT INCLUDING WIRING FOR OTHER NEW EQUIPMENTS. COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

**ELECTRICAL PLAN NOTES**

- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
- ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY.
- ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
- CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE.
- ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
- SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
- ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
- SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- SEPARATE PERMIT REQUIRED FOR SIGNAGE.
- PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
- ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR

- TYPE CIRCUIT BREAKERS.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
  - MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C., NEMA, AND ETC.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
  - ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN DIRECTORIES.
  - ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 2" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
  - ALL LIGHT SWITCHES TO BE AT 42" A.F.F.

- ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- BREAKER AND PANELS - ALL CURRENT CARRYING BUSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
- DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
- THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
- CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
- CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION - FOR THE WHOLE CIRCUIT.
- GAS PIPING SHALL BE BONDED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
- ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
- CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
- OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
- ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6" OR LESS).
- EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
- CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
- ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
- ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
- 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
- TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
- ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
- PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.
- ALL ELECTRICAL GEAR PLACED ON THE EXTERIOR OF THE BUILDING SHOULD BE PAINTED SW7102 WHITE FLOUR.

**RESTAURANT REQUIREMENTS**

- HOOD EXHAUST FAN(S) SHOULD BE AS FAR FROM LEASE LINE AS POSSIBLE AT ROOF (5' MIN. PREFERRED). ENSURE THAT THEY ARE NO LESS THAN 10' FROM ANY ADJACENT TENANT INTAKE OR RTU.
- INSTALL GREASE GUARD(S) AROUND UPBLAST EXHAUST FAN(S) FOR HOODS AT ROOF.
- PROVIDE WATERPROOFING MEMBRANE ALONG ALL KITCHEN WALLS THAT ABUT LEASE LINE/DEMISING WALLS, UP TO 8' A.F.F. AND 8' AWAY FROM WALL, BEHIND/UNDER FINISHES (MAPEI, RED GARD, OR SIMILAR), EVEN BEHIND WATER RESISTANT FINISHES. PROVIDE PHOTOGRAPHIC EVIDENCE OF INSTALLATION.
- SEAL AROUND ALL REAR DOORS, ESPECIALLY IN KITCHEN AREAS.
- COOLERS/FREEZERS TO BE 4" MINIMUM FROM DEMISING (LEASE LINE) AND EXTERIOR WALLS, AND 2" MINIMUM FROM TENANTS INTERIOR WALLS, WITH MOISTURE AND MOLD RESISTANT WALL BOARD AND WATERPROOFING MEMBRANE BEHIND.
- PROVIDE STRUCTURAL REINFORCEMENT FOR THE HOOD EXHAUST FAN (ROOF) OPENINGS.
- GREASE REFILL AND WASTE IS PREFERRED TO BE ON A CLOSED LOOP SYSTEM (SIMILAR TO RESTAURANT TECHNOLOGIES), REFILL AND REMOVAL BOX SHALL BE RECESSED WITHIN REAR WALL.

**LIGHTING FIXTURE SCHEDULE**

LEGEND	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP TYPE	TOTAL WATTS	MOUNTING
○	C1	6" RECESSED CAN	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSC1	120	15 WATTS LED	15	RECESSED
□	E	2x4 RECESSED LED FLAT PANEL	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSF4	120	50 WATTS LED	50	RECESSED
⊗	UC	EXIT/EMERGENCY SIGNS	BEST LIGHTING PRODUCT	LEDCADXR-10-W/B	120	LED	10	WALL
⊕	EU	EMERGENCY LIGHTS	BEST LIGHTING PRODUCT	CAXTEU-2-R-WB-EM	120	LED	1	WALL
⊗	XUC	EXIT/EMERGENCY COMBO SIGNS	BEST LIGHTING PRODUCT	CALEDXTEU-1-R-W/R-RC-ARROWS	120	LED	5.3	WALL
⊗	DS	DIMMER WALL SWITCH	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSDS	120	-	-	WALL
⊗	T	TIMER WALL SWITCH	LEVITON	6124	120	-	-	WALL
⊗	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120	-	-	WALL
○	OS	CEILING OCCUPANCY SENSOR	LEVITON	O2C10-UDW	120	-	-	CEILING
⊗	LCP	LIGHTING CONTROL PANEL	EATON	LITEKEEPER 16	120	-	-	REAR WALL

REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED

REFER TO CS-5 FOR VENDORS INFORMATION

(\*) EXISTING FIXTURES ARE ACCEPTABLE IF THEY NEED TO BE REPLACED. REPLACE W/ EXACT MATCH OR MATCH SCHEDULE

SUBSTITUTIONS TO THE ABOVE FIXTURE SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER. SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR CUT SHEETS, ALL PHOTOMETRICS & FIXTURE SAMPLES FOR ALL DECORATIVE FIXTURES, LANDSCAPE FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL BE PROVIDED.

**GENERAL LIGHTING NOTES**

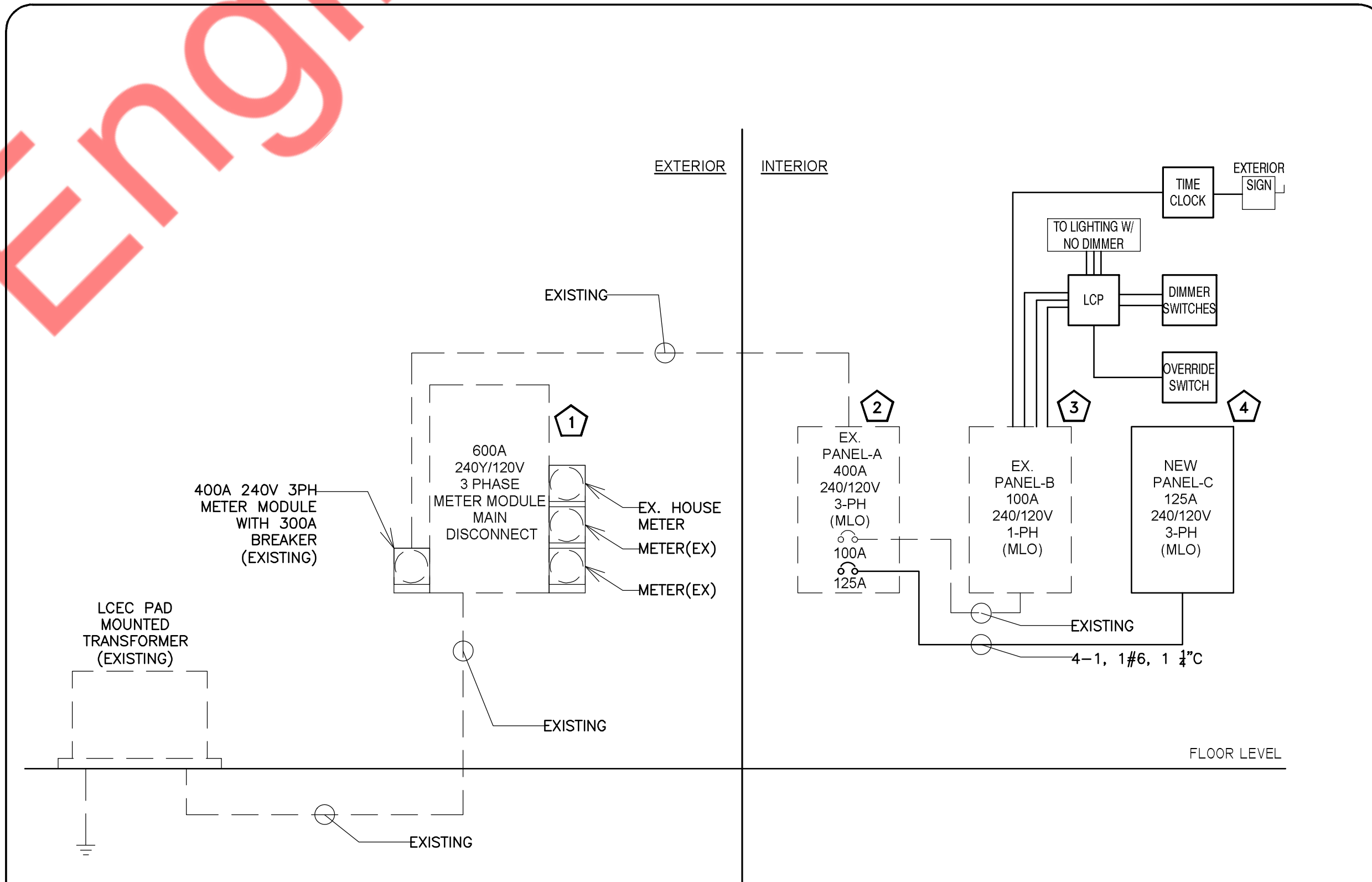
- WHERE LIGHT FIXTURE IS FOLLOWED BY "NL", THIS FIXTURE IS DESIGNATED AS A NIGHT LIGHT AND SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.
- UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE AND LOWER CASE LETTER DENOTES SWITCHING SCHEME.
- ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
⊗	EXHAUST FAN
⊗	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
⊗	SPEAKERS @ CEILING
⊗	JUNCTION BOX
⊗	CEILING MOUNTED SMOKE DETECTOR 110V, INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72, AND FBC 905.2
⊗	BATTERY BACK UP EXIT LIGHT
⊗	BATTERY BACK UP EMERGENCY LIGHT
⊗	WALL SWITCH (SINGLE, DOUBLE, )
⊗	WALL SWITCH (3 WAY, 4 WAY)
⊗	WALL SWITCH (TIMER)
⊗	DIMMER WALL SWITCH
⊗	OCCUPANCY SENSOR WALL SWITCH
⊗	VARIABLE SPEED SWITCH
⊗	CEILING MOUNTED OCCUPANCY SENSOR
⊗	SIMPLEX RECEPTACLE, +18" AFF OR AS NOTED. SUFFIX DENOTES FOLLOWING: A - NEMA 5-15R B - NEMA 6-15R C - NEMA 14-30R D - NEMA 14-50R E - NEMA 10-30R
⊗	DUPLEX RECEPTACLE
⊗	DUPLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS
⊗	HALF SWITCHED DUPLEX RECEPTACLE
⊗	230 VOLT RECEPTACLE
⊗	QUADRUPLUX RECEPTACLE
⊗	FLOOR MOUNTED, FLUSH DUPLEX RECEPTACLE
⊗	FLOOR MOUNTED, FLUSH QUAD. RECEPTACLE
⊗	FLOOR MOUNTED, FLUSH 230 VOLT RECEPTACLE
⊗	CEILING MOUNTED DUPLEX RECEPTACLE
⊗	ELECTRICAL PANEL
⊗	DISCONNECT SWITCH
⊗	USB CHARGER RECEPTACLE
⊗	TELEVISION OUTLET
⊗	TELEPHONE OUTLET
⊗	TELEPHONE/DATA OUTLET
⊗	DATA OUTLET
⊗	FLOOR MTD. FLUSH TELEPHONE/DATA OUTLET
⊗	QUAD. DATA OUTLET RJ45
⊗	THERMOSTAT DEVICE
⊗	AC OUTDOOR UNIT MOTOR AS NOTED WITH WEATHERPROOF CONTROLLER AND DISCONNECT SWITCH WITH
⊗	NON FUSED DISCONNECT SWITCH AMPERAGE AND NUMBER OF POLES AS NOTED
⊗	30A/240V NON FUSED DISCONNECT SWITCH
⊗	60A/240V NON FUSED DISCONNECT SWITCH
⊗	100A/240V NON FUSED DISCONNECT SWITCH
⊗	200A/240V NON FUSED DISCONNECT SWITCH
⊗	MOTOR/PUMP

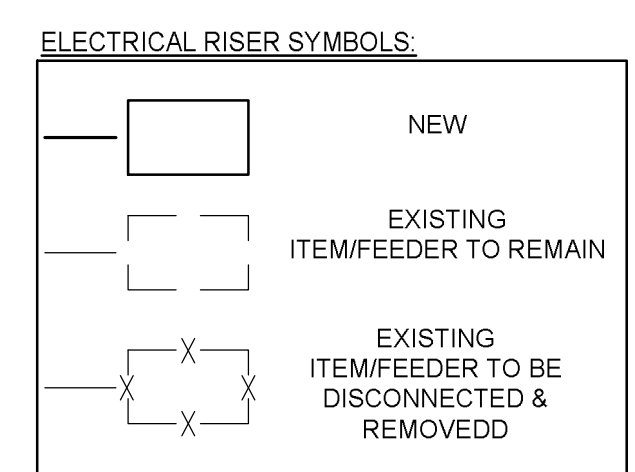
**ABBREVIATIONS:**

- ABOVE FINISH FLOOR= A.F.F.  
COUNTER TOP LEVEL= C  
GROUND FAULT INTERRUPTER= GFCI  
VERIFY PRIOR TO INSTALL= VH  
WEATHER PROOF= WP
- BELOW COUNTER= BC  
PUSH BUTTON= PB  
UNDER CABINET= UC  
VAPOR PROOF= VP  
SALVAGED= S



- RISER DIAGRAM KEYED WORK NOTES**
- EXISTING METER MODULE ALONG WITH MAIN DISCONNECT AND FEEDER SHALL REMAIN. E.C. SHALL VERIFY THE OPERABLE CONDITION OF METER MODULE AND MAIN DISCONNECT AND FEEDER IN FIELD, INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY PRIOR TO ROUGH-IN.
  - EXISTING 400A, 240/120V, 3-PHASE ELECTRICAL PANEL-A TO REMAIN. E.C SHALL VERIFY EXACT SIZE AND OPERABLE CONDITION OF PANEL IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
  - EXISTING 100A, 240/120V, 1-PHASE ELECTRICAL PANEL-B TO REMAIN. E.C SHALL VERIFY EXACT SIZE AND OPERABLE CONDITION OF PANEL IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
  - NEW 125A, 240/120V, 3-PHASE ELECTRICAL PANEL-C. E.C SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.

- GENERAL NOTES:**
- E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
  - ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (ISC) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.
  - E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.





PANEL: A		EXISTING				MOUNTING: SURFACE								
240Y/120V	VOLTS,	3	PHASE	4	WIRE	PANEL LOCATION: KITCHEN AREA								
MLO	400A	BUS:	EXISTING	MIN.		FED FROM: 300A BREAKER								
<b>NOTE:</b>														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20/3P	MAU-1 (N)	M	0.58	3#12, 1#12, 3/4" C	4.73			4#1, 1#6, 1 1/4" C	4.15	M	TO PANEL C	125/3P	2
3			M	0.58		4.73				4				
5			M	0.58				4.73			6			
7	20/3P	38E-WALK IN COOLER	E	2.00	EXISTING	8.00			3#8, 1#10, 3/4" C	6.00	M	RTU-2 ( E )	50/3P	8
9			E	2.00		8.00				10				
11			E	2.00				8.00			12			
13	30/3P	CU-1 (N)	M	2.50	3#10, 1#10, 3/4" C	8.50			3#8, 1#10, 3/4" C	6.00	M	RTU-3 ( E )	50/3P	14
15			M	2.50		8.50				16				
17			M	2.50				8.50			18			
19	40/3P	59-PIZZA BAKE OVEN	E	3.00	3#8, 1#10, 3/4" C	3.00					SPARE		20	20
21			E	3.00		3.00				22				
23			E	3.00				6.64			24			
25	20/2P	18-EXHAUST HOOD	E	0.30	2#12, 1#12, 3/4" C	3.94			2#8, 1#10, 3/4" C	3.64	E	73-DISH WASHER	50/2P	26
27			E	0.30		1.50				28				
29			M	1.00		2#12, 1#12, 3/4" C	2.20				30			
31	20	POEF-1(N)	M	1.00	2#12, 1#12, 3/4" C	2.20			2#12, 1#12, 3/4" C	1.20	M	48- PLANETARY MIXER	20/3P	32
33	20	SERVICE RECEPTACLE	R	0.72	2#12, 1#12, 3/4" C		0.72					SPARE	20	34
35	20	SPARE							EXISTING	5.28	O	TO PANEL B	100/2P	36
37	20	SPARE				5.28				5.28	O		20	38
39	20	SPARE					0.00					SPARE	20	40
41	20	SPARE					0.00					SPARE	20	42
						35.65	26.45	35.35						

PANEL: B		(EXISTING)				MOUNTING: SURFACE								
240Y/120V	VOLTS,	1	PHASE	3	WIRE	PANEL LOCATION: KITCHEN AREA								
MLO	100A	BUS:	EXISTING	MIN.		FED FROM: PANEL A								
<b>NOTE:</b>														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20	( EXISTING ) LTG-OFFICE, KITCHEN & DISHWASH	L	0.30	2#12, 1#12, 3/4" C	1.02			2#12, 1#12, 3/4" C	0.72	R	GENERAL RECEPTACLE SERVER ROOM	20	2
3	20	LTG-DINING, CARRY OUT, JANITOR	L	1.40	2#12, 1#12, 3/4" C		2.12		2#12, 1#12, 3/4" C	0.72	R	GENERAL RECEPTACLE SERVER ROOM	20	4
5	20	LCP-LIGHTING CONTROL PANEL	L	0.10	2#12, 1#12, 3/4" C	0.64			2#12, 1#12, 3/4" C	0.54	R	TEL, ROUTER WITH/FAILOVER	20	6
7	20	J.B. FOR TIME CLOCK	L	0.10	2#12, 1#12, 3/4" C		0.64		2#12, 1#12, 3/4" C	0.54	R	POS RECEPTACLE	20	8
9	20	EXTERIOR SIGNAGE	L	1.50	2#12, 1#12, 3/4" C	2.04			2#12, 1#12, 3/4" C	0.54	R	POS RECEPTACLE	20	10
11	20	SHOW WINDOW RECEPTACLE	L	1.70	2#12, 1#12, 3/4" C		2.20		EXISTING	0.50	L	WALK IN COOLER LIGHTING (EXISTING)	20	12
13	20	SHOW WINDOW RECEPTACLE	L	1.70	2#12, 1#12, 3/4" C	2.20			2#12, 1#12, 3/4" C	0.50	R	TV RECEPTACLE	20	14
15	20	SHOW WINDOW RECEPTACLE	L	1.70	2#12, 1#12, 3/4" C		2.20		2#12, 1#12, 3/4" C	0.50	R	TV RECEPTACLE	20	16
17	20	SPARE				0.54			2#12, 1#12, 3/4" C	0.54	R	POS RECEPTACLE	20	18
19	20	SPARE					0.00					SPARE	20	20
						6.44	7.16							

PANEL: C		(NEW)				MOUNTING: SURFACE								
208Y/120V	VOLTS,	3	PHASE	4	WIRE	PANEL LOCATION: KITCHEN AREA								
MLO	125A	BUS:	125A	MIN.		FED FROM: PANEL A								
<b>NOTE:</b>														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20*	1-COUNTER TOP FOOD WARMER	E	1.20	2#12, 1#12, 3/4" C	1.20			2#12, 1#12, 3/4" C	1.74	E	43-HEATED SELF	20*	4
3	20*	1-COUNTER TOP FOOD WARMER	E	1.20	2#12, 1#12, 3/4" C		2.94		2#12, 1#12, 3/4" C	0.36	E	56-BEVERAGE DISPENSER	20*	6
5	20*	10-REACH IN FREEZER	E	0.55	2#12, 1#12, 3/4" C			0.91	2#12, 1#12, 3/4" C			SPARE	20	8
7	20*	11-SANDWICH/SALAD PREPARATION	E	0.50	2#12, 1#12, 3/4" C	0.50			2#12, 1#12, 3/4" C	1.24	E	57-ICE CUBER	20*	10
9	20*	11-SANDWICH/SALAD PREPARATION	E	0.50	2#12, 1#12, 3/4" C		1.74		2#12, 1#12, 3/4" C	0.44	E	69-SALAD COOLER	20*	12
11	20*	12-PRINTER RECEIPT X 4	E	0.72	2#12, 1#12, 3/4" C		1.16		2#12, 1#12, 3/4" C	0.86	E	81-BEVERAGE COOLER	20*	14
13	20*	14-DOUGH ROLLER	E	1.59	2#12, 1#12, 3/4" C	2.45			2#12, 1#12, 3/4" C	0.90	E	GENERAL RECEPTACLE KITCHEN	20*	16
15	20*	16-PIZZA REFRIGATOR	E	0.64	2#12, 1#12, 3/4" C		1.54		2#12, 1#12, 3/4" C	0.90	E	GENERAL RECEPTACLE KITCHEN	20*	18
17	20*	18A-HOOD BUILTIN LIGHT	E	0.10	2#12, 1#12, 3/4" C			1.00	2#12, 1#12, 3/4" C	0.90	E	GENERAL RECEPTACLE PREP.	20*	20
19	20*	19-OVEN GAS CONVEYOR	E	0.58	2#12, 1#12, 3/4" C	1.48			2#12, 1#12, 3/4" C	0.90	E	GENERAL RECEPTACLE DINING	20*	22
21	20*	30-MERCHANDISER REFRIGATOR	E	0.23	2#12, 1#12, 3/4" C		0.41		2#12, 1#12, 3/4" C	0.18	E	GENERAL RECEPTACLE TOILET	20*	24
23	20	SPARE						0.10	2#12, 1#12, 3/4" C	0.10	E	RCP (RECIRCULATION PUMP)	20	26
25	20*	36-TANKLESS WATER HEATER	E	0.96	2#12, 1#12, 3/4" C	1.92			2#12, 1#12, 3/4" C	0.96	E	36-TANKLESS WATER HEATER	20	28
27	20*	37-REACH IN FREEZER	E	0.72	2#12, 1#12, 3/4" C		1.26		2#12, 1#12, 3/4" C	0.54	E	GENERAL RECEPTACLE CARRY OUT	20	30
29	20	SPARE						0.00				SPARE	20	32
31	20*	RECEPTACLE FOR EXPO.	E	0.18	2#12, 1#12, 3/4" C	0.18						SPARE	20	34
33	20	CIRCLE BUTTON SIGN	E	0.18	2#12, 1#12, 3/4" C		0.18					SPARE	20	36
35	20	ROSATI'S NEON SOFFIT SIGN	E	0.18	2#12, 1#12, 3/4" C		0.18					SPARE	20	38
37	20	SPARE				0.00						SPARE	20	40
39	20	SPARE					0.00					SPARE	20	42
41	20	SPARE					0.00					SPARE	20	44
						7.73	8.08	3.35						

PANEL SCHEDULE

SCALE N.T.S. 2

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

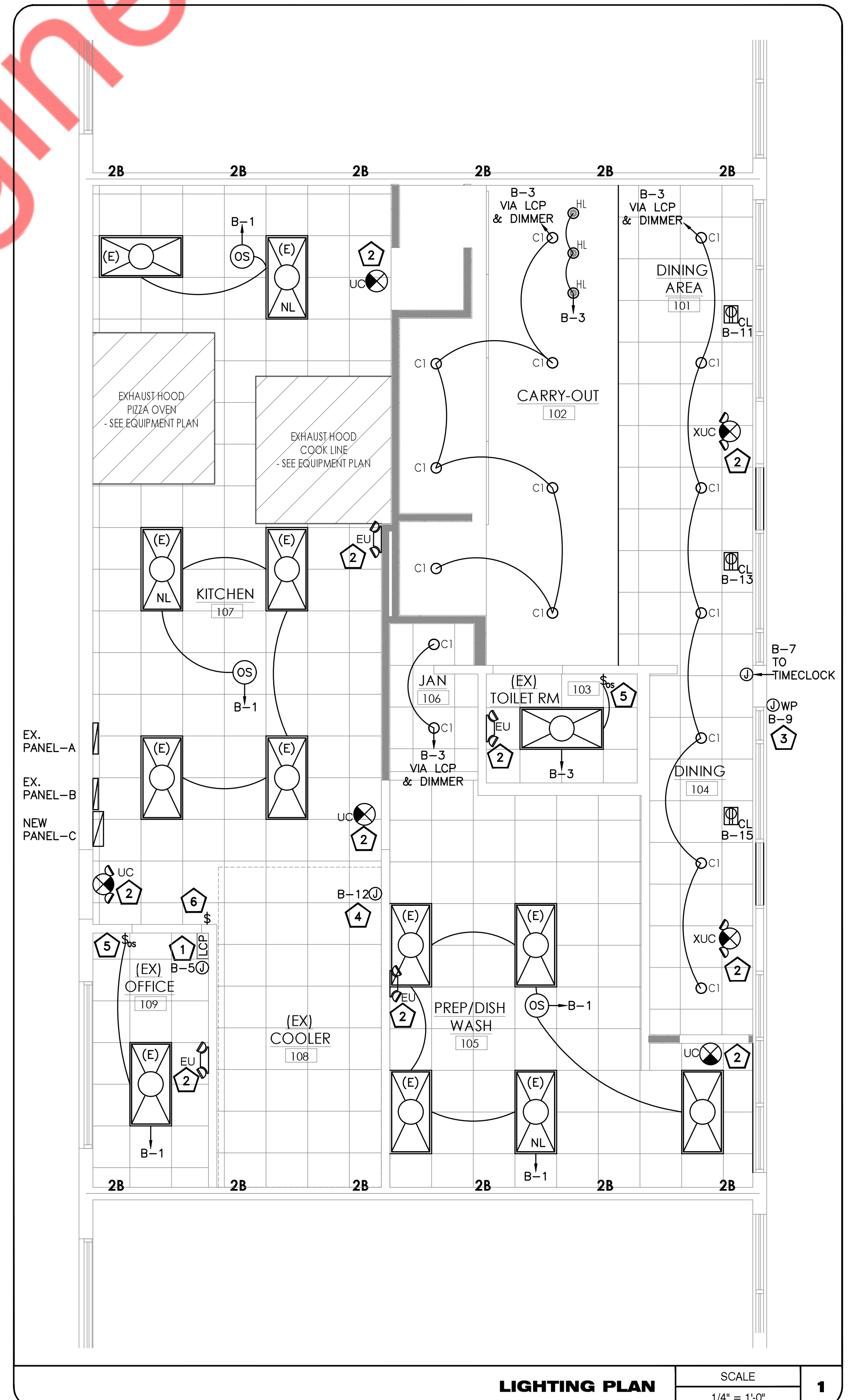
- EXISTING (E) LIGHTING AND CIRCUIT TO REMAIN. E.C. SHALL PROVIDE CONTROL AS PER DRAWING.
- NEW CIRCUIT AND CONTROL FOR NEW LIGHTING SHALL BE AS PER DRAWING.

# ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:

- E.C. SHALL COORDINATE EXACT LOCATION OF THE (L.C.P.) WITH ARCHITECT/OWNER.
- CONNECT ALL EMERGENCY EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- EXTERIOR SIGNAGE. E.C. COORDINATE EXACT POWER REQUIREMENT AND EXACT LOCATION WITH OWNER/LANDLORD.
- LIGHTING FOR EXISTING WALKIN COOLER SHALL REMAIN. E.C. SHALL VERIFY OPERABLE CONDITION IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCRPANCY.
- WALL MOUNTED OCCUPANCY SENSOR WITH SWITCH.
- E.C. SHALL CO-ORDINATE THE EXACT LOCATION OF MANUAL OVER RIDE SWITCH WITH ARCHITECT/OWNER.

PANEL SCHEDULE GENERAL NOTES:

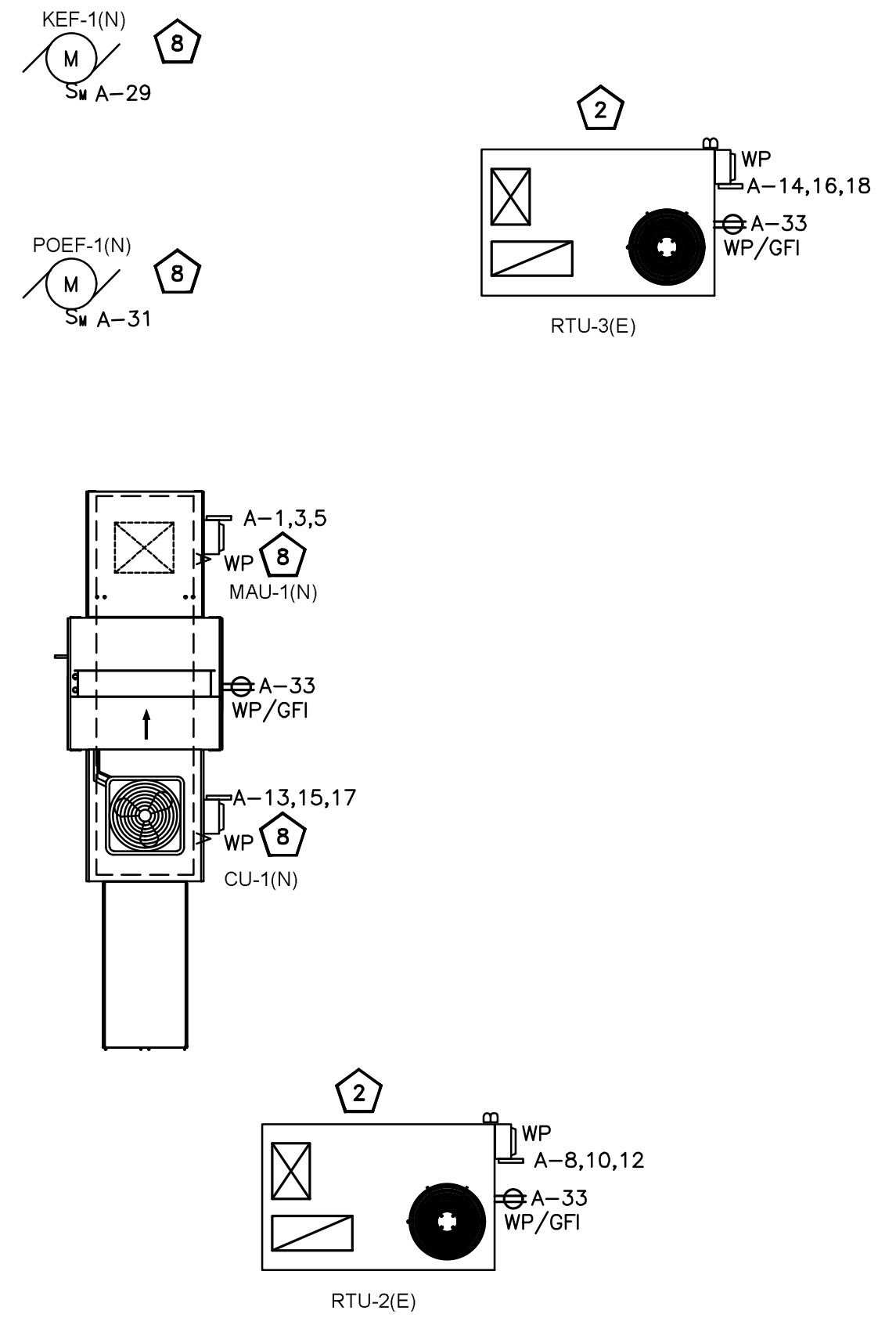
- \*\*INDICATES GFCI CIRCUIT BREAKER
- BREAKERS IN EXISTING PANEL SHALL BE REPLACED WITH THE BREAKER RATING AS SHOWN ON PANEL SCHEDULE.
- E.C. SHALL VERIFY THE OPERABLE CONDITION OF BREAKER. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.



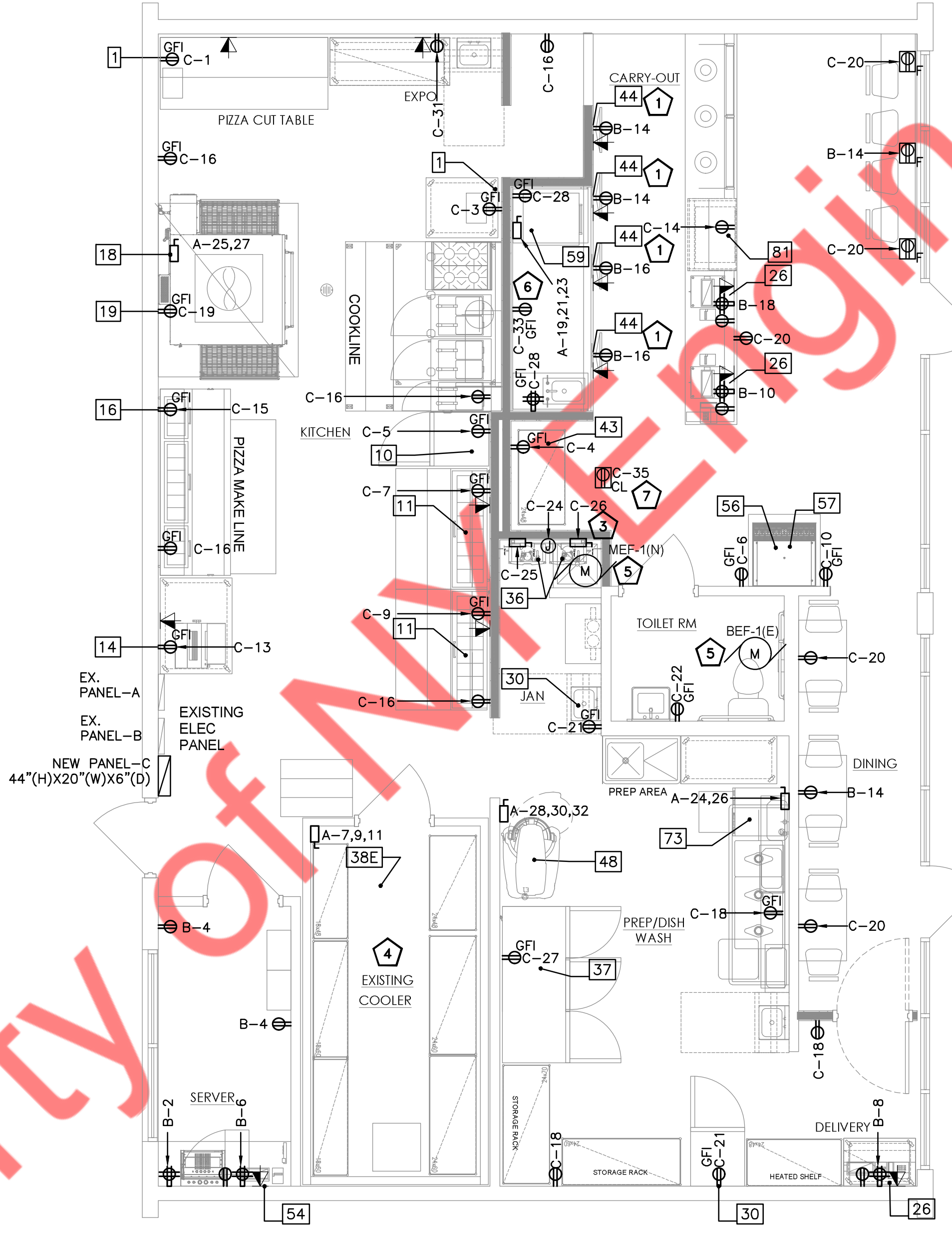
LIGHTING PLAN

SCALE 1/4" = 1'-0" 1





**ROOF POWER PLAN** SCALE 1/4" = 1'-0" **2**

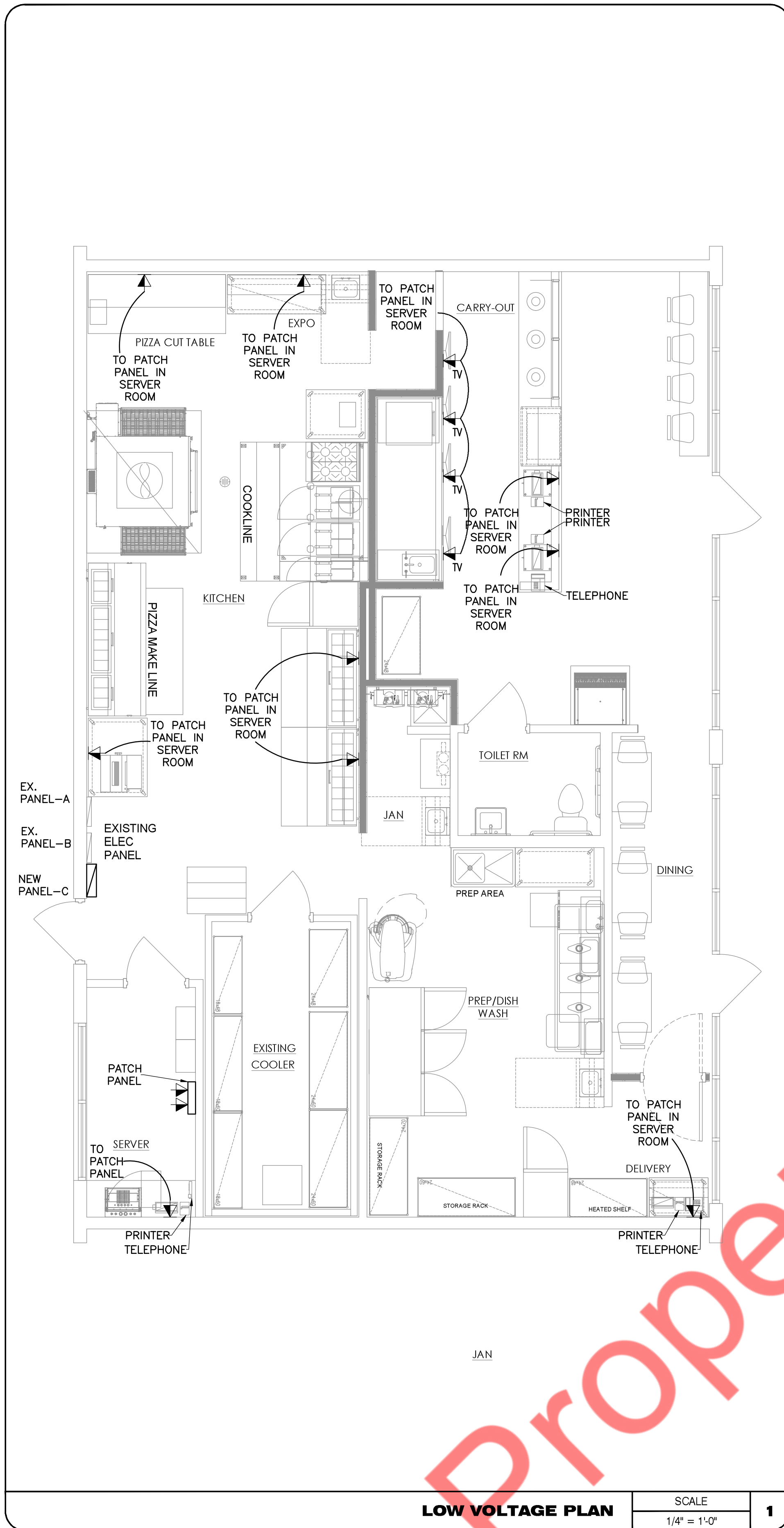


**POWER PLAN** SCALE 1/4" = 1'-0" **1**

**GENERAL NOTES:**

- A. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- B. COORDINATE EXACT LOCATION OF HVAC EQUIPMENTS WITH MECHANICAL CONTRACTOR.

- # ELECTRICAL POWER PLAN KEYED WORK NOTES:**
1. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER FOR ALL TV'S.
  2. EXISTING MECHANICAL EQUIPMENTS SHALL REMAIN CONNECTED TO EXISTING ELECTRICAL PANELS. ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUIT CONNECTIONS AND THEIR OPERABLE CONDITIONS IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.
  3. NEW PROPOSED WATER HEATER, E.C. SHALL COORDINATE REQUIREMENT WITH PLUMBING CONTRACTOR. COORDINATE LOCATION WITH MANUFACTURER AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
  4. ELECTRICAL CONTRACTOR SHALL VERIFY OPERABLE CONDITION OF EXISTING BREAKER AND FEEDER FOR WALKIN COOLER IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
  5. EXHAUST FANS IN THE ROOM SHALL BE CONTROLLED WITH THE LIGHT FIXTURES IN THE SAME ROOM.
  6. DUPLEX RECEPTACLE FOR 30" CIRCLE BUTTON SIGN. COORDINATE EXACT LOCATION AND POWER REQUIREMENT WITH ARCHITECT/SIGN VENDOR.
  7. CEILING MOUNTED RECEPTACLE FOR ROSATI'S NEON SOFFIT SIGN. COORDINATE EXACT LOCATION AND POWER REQUIREMENT WITH ARCHITECT/SIGN VENDOR.
  8. ELECTRICAL CONTRACTOR SHALL CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF MECHANICAL EQUIPMENTS.



**LOW VOLTAGE PLAN** SCALE 1/4" = 1'-0" **1**

