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Table with 3 columns: No., DATE, DESCRIPTION. Includes revision 09-22-21 for PCC #1, CLIENT AND LANDLORD REVISIONS.

CLIENT INFORMATION



PROJECT NAME: NEKTER - LEE'S SUMMIT, MO 940 NW PRYOR ROAD, UNIT: G, LEE'S SUMMIT, MISSOURI 64081 SHEET NAME: ELECTRICAL SPECIFICATIONS

Table with 3 columns: DRAWN, CHECKED, WR. Includes fields for DATE, SCALE, PROJECT NUMBER, SHEET.

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PART I - GENERAL

A. CONDITIONS

- 1. Furnish and install a completely wired and operational electrical system as shown on the drawings and specified herein, including but not limited to, these major items. 1.1. Lighting fixtures as indicated and specified on the plans. 1.2. Electrical panels, service, conduit, wiring, etc., for all outlets and equipment. 1.3. Telephone outlets and conduit as indicated.

B. RELATED WORKS

- 1. The Electrical Contractor shall provide conduit, trench, and backfill for electrical service entrance from the main service to utility point of electrical service. Electrical Contractor shall coordinate the installation of the electrical service entrance with serving utility company. 2. The Electrical Contractor shall provide conduit, trench, and backfill for primary phone and CATV service from the telephone terminal board or cabinet to the phone company and CATV company point of service.

C. CODES, REGULATIONS, AND STANDARDS

- 1. The installation shall comply with applicable local and state codes and ordinances, with the regulations of the currently accepted edition of the National Electric Code and with the requirements of the power, telephone, and CATV companies furnishing services to this installation. 2. The following industry standards, specifications, and codes are minimum requirements: 2.1. The National Electrical Code (NEC), including local amendments. 2.2. Underwriter Laboratories (UL) incorporated standards. 2.3. American National Standards Institute (ANSI).

D. INSPECTION OF SITE

- 1. Prior to submitting a bid for electrical work, the contractor shall visit the site of the proposed construction and shall thoroughly acquaint himself with existing utilities, and working conditions to be encountered, etc. Allowance will not be made for noncompliance with this condition after bidding. 2. Electrical installation shall meet the existing conditions.

E. STORAGE AND HANDLING OF MATERIALS

- 1. Deliver materials and equipment to the project in the manufacturer's original, unopened, labeled containers. Protect against moisture, tampering, or damage from improper handling or storage. Contractor shall protect and be responsible for any damage to work or materials until final acceptance by the owner, and shall make good without cost to the owner, any damage or loss that may occur during this period. 2. Arrange for timely delivery of materials and equipment to the job site in order to minimize the length of time between delivery and installation. 3. Cover and protect any material which may be affected by the weather while in transit or stored at the project site. Any material found defective or not installed in accordance with the contract documents may be rejected by the engineer.

F. CLEANUP

- 1. Keep the premises free from accumulation of waste materials, or rubbish caused by employees or work under this division of the specifications. At the completion of the work remove all surplus materials, tools, etc., and leave the premises broom-clean.

G. EXCAVATION

- 1. Perform all excavation and back filling required for work performed under this division of the specifications. Use excavated materials for backfill unless off site materials are deemed necessary.

H. DRAWINGS

- 1. The drawings indicate the general arrangement and locations of the electrical work data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural, and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the engineer in writing before the date of bid opening. If discrepancies are not reported, the Contractor shall bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, radiation, etc. Do not scale distances off the electrical drawings, use actual building dimensions.

I. EXCAVATION, CUTTING, AND FITTING

- 1. Perform the excavation, cutting, fitting, repairing, and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural members shall be done without the consent of the architect.

J. COOPERATION WITH OTHER CONTRACTORS

- 1. Cooperate with the other trades so that the installation of the electrical outlets and equipment will be properly coordinated. Conduit, lighting fixtures, and other equipment locations shall be checked with other trades to avoid conflict with the piping, ductwork, steel, beams, or other obstructions. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of materials of other trades. 2. Coordinate the location of the trenches and conduits for electrical and telephone utility services with the general contractor. 3. Coordinate HVAC equipment connection requirements with HVAC contractor.

PART II - PRODUCTS AND EXECUTION

A. MATERIALS

- 1. All materials shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations.

B. CONDUIT

- 1. All wiring shall be installed in listed metallic conduit except as permitted below. RGS, with a 20 mil PVC coating will be used when in contact with earth. IMC may be used in indoor locations not in contact with the earth. EMT may be used in indoor locations not in contact with earth, not in concrete slabs or walls and not subject to damage. PVC may be used in or below concrete and direct buried in earth. Flexible steel conduit shall be used for indoor final connections to equipment in lengths not to exceed 72". Liquid-tight flexible steel conduit shall be for outdoor final connections to equipment not to exceed 36". 2. Cover metallic conduit in contact with earth with polyethylene taped spiral wrapped, 1/2 lapped to provide 20 mil. thickness. Tape shall be Scotch no. 50 tape. Conduit and ducts not under buildings and feeder ducts shall be installed per N.E.C. 300-5. make joints with compound to be watertight. 3. Fittings and conduit bodies shall be steel. No diecast fittings. 4. Conduit sizes shall be as required by code and as indicated or specified. 5. All empty conduit systems shall have a nylon pull string to facilitate installation of future wire. 6. Schedule 40 PVC conduit shall be permitted underground with proper fittings, all UL Approved and cemented joints. Penetrations through floor slabs and bends greater than 22" shall be wrapped rigid galvanized steel elbows. 7. Conduits and outlets shall be concealed with the building structure, except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit shown to be installed in cabinets, counters, and casework shall be run as directed by the architect. 8. All conduit systems shall have a Code sized copper ground conductor increase conduit size as required. 9. Conduit penetration through roof shall have roof flashing with caulk type counter flashing sleeve. Installation shall be watertight. 10. Conduits shall be routed surface on the structure, parallel and perpendicular to the structure.

C. OUTLET, PULL, AND JUNCTION BOXES

- 1. Each switch, light, receptacle or other outlet shall be provided with a Code gauge, galvanized steel outlet box. Junction and pull boxes shall be Code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52050 shall be used for 4" boxes in unfinished brick number 180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course. 2. Boxes installed in poured cement floors shall be flush type cast iron or steel with watertight gasketed covers. Where boxes are installed in floors with tile or carpet floor covering, covers shall be of the recessed type to accommodate the floor covering. 3. Boxes installed for the alarm, computer, and security system shall be provided with appropriate cover plates. 4. Boxes for telephone, computer, TV, fire alarm, security, and similar systems shall be minimum 4" square and 2-1/8" deep.

D. SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS

- 1. See Single Line Diagram General Notes on drawings for more information.

E. PANEL BOARDS

- 1. See drawings for panel board schedules and specifications.

F. WIRE

- 1. Conductor sizes shown on the drawings are based on copper wire. Unless otherwise specified, all wire shall be Type XHHW for feeders or branch circuits larger than 4 AWG, Type THHN/THWN insulation for feeders and branch circuits 4 AWG and smaller. All branch circuit wiring shall be copper. The wire shall be 12 AWG unless otherwise indicated. Circuit shall be labeled in each junction box. 2. Metal Clad Cable "Type MC" cable may only be utilized for interior branch circuitry supplying lighting fixtures, not to exceed 6-ft. in length from junction box to the fixture served. "Daisy Chaining" of light fixtures is not allowed. 3. When use is permitted in the Allowed Specification Deviations, Metal Clad "Type MC" cable may be installed per NEC Article 330. Where multiple cables are routed adjacent to each other (bundled), a minimum separation of one (1) cable diameter (largest) shall be required. 4. The wires shall be marked with color to simplify circuit identification. Unless otherwise required by local ordinances:

Table mapping wire colors to voltages: 208/120 Volts (Phase A=Black, B=Red, C=Blue, Neutral=White, Ground=Green), 480/277 Volts (Phase A=Brown, B=Orange, C=Yellow).

Neutral = Gray, Ground = Green

- 5. No wire shall be installed in the conduit system until the conduit system is complete. Use Mineralac No. 100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system. 6. Splices in exterior pull boxes and manholes shall be weatherproof using "Scotchcast" splice kit or approved equal. Seal ends of conduits and ducts with "Ductseal" or approved equal. 7. Provide solid conductor for 12 AWG and smaller. 8. Provide 10 AWG conductors for 20 ampere, 120V branch circuits longer than 75-feet and 8 AWG conductors for 20 ampere, 120V branch circuits longer than 120-feet. Provide 10 AWG conductors for 20 ampere, 277V branch circuits longer than 200-feet.

G. WIRING DEVICES

- 1. Wall switches shall be Specification Grade AC silent type switches, 20A, 120/277 volt. 2. Receptacles shall be Specification Grade, duplex type, NEMA 5-20R, 20 ampere, 120 volt grounded type. Special application receptacles shall be indicated on plans. Mount with the ground down. 3. Device plates shall be equal to sierra smooth-line plastic wall plates. Color shall be white, unless otherwise noted. 4. All receptacles identified as weatherproof on the drawings shall be weather-resistant, tamper-resistant, GFCI type and equipped with enclosure that is weatherproof (W/P) whether or not the attachment plug cap is inserted (while "IN-USE"). An outlet box hood shall be listed and shall be identified as "Extra Duty". 5. Except as otherwise noted, all wiring device plates on the project shall be labeled with panel and circuit number(s) utilizing a Brother P-touch labeling system with 1/2" tape (yellow on black) or equal Hellermann/Tyton or Panduit. Labelate label on the concealed side of the wiring device plate. Handwritten labels are unacceptable.

H. LIGHTING FIXTURES

- 1. Provide all lighting fixtures, wired and connected, the drawings indicate the fixtures for each location. Provide lamps for all fixtures. The lamps shall be by the same manufacturer. Verify ceiling construction before ordering recessed units. Provide plaster frames and hangers as required. Ceiling construction, architectural accessories, voltage, and ballasts to meet the existing condition.

I. SERVICE ENTRANCE SECTION

- 1. The service entrance equipment shall be as indicated on the drawings. Equipment shall carry the UL label and shall conform to the power company regulations. 2. Service entrance equipment shall be provided with a fully rated copper or aluminum bus. Horizontally tapered bussing shall not be allowed.

J. SYSTEM GROUNDING

- 1. Grounding shall comply with requirements of Article 250. All exposed non-current carrying metallic parts of electrical equipment, metallic raceway systems, metallic cable armor, grounding conductor of nonmetallic sheathed cables, grounding conductor in nonmetallic raceways, and grounded conductors of the wiring system shall be grounded. 2. Grounding conductor (neutral) of the wiring system shall be connected to the system grounding conductor at a single place in each system by removable bonding jumpers, sized according to the applicable provisions of the National Electrical Code. The grounded conductor (neutral) to the grounding conductor connection shall be located in the enclosure for the system's overcurrent protection or where otherwise indicated on the plans or specifications. 3. A ground bus separate from the neutral bus shall be provided in all switchboards and panelboards. Ground bus shall be retorque(d) (checked) prior to energizing equipment per manufacturer's recommendations. 4. Ground buses and neutral buses in all distribution panels, switchboards, panelboards, and those provided in any equipment shall be isolated except where required to be connected as specified above for the service entrance and in transformer terminal compartments. 5. When indicated on the drawings, equipment grounding conductors shall be extended from the ground bus in the distribution equipment to the receptacle, fixture or device lugs where they are provided. Where lugs are not provided, equipment grounding conductors shall be connected to equipment enclosures. The connections shall be arranged such that removal of the receptacle, equipment ground conductors, or ground jumpers from ground bussing shall not affect the ground system. 6. Raceways may not be used as a grounding conductor for power and lighting circuits. All conduit shall have separate Code sized green ground wire installed in the conduit to insure a continuous grounding path. 7. In inaccessible locations, make connections by exothermic weld process. 8. In accessible locations, connections shall be made with bolted through, approved solderless bronze grounding devices. 9. Bond together metal siding not attached to grounded structure bond to ground.

K. TELEPHONE SYSTEM

- 1. Telephone wall outlets shall consist of standard boxes mounted 18" above the floor unless otherwise indicated. Connect outlets to telephone terminal with separate 3/4" conduit unless otherwise shown on drawings. Provide a terminal mounting board for the incoming service cable.

L. LIGHTING CONTROL

- 1. Furnish and install time switches, photocells, contactors and full lighting control systems as required for lighting controls indicated on the drawings.

- 2. Time switches shall be equal to Paragon, General Electric, Tork, or Intermatic and shall have size and number of poles as required. 3. Photocells shall be equal to Tork or Intermatic with voltage as indicated.

M. DRY TYPE TRANSFORMERS

- 1. Manufacturers: subject to compliance with requirements, provide products by one of the following: 1.1. Acme Electric Corporation; Power Distribution Products Division. 1.2. GE Electrical Distribution & Control. 1.3. Eaton. 1.4. Square D/Groupe Schneider NA. 2. Coils: Continuous windings without splices, except for taps. 3. Internal coil connections - brazed or pressure type. 4. Coil material - copper 5. Enclosure - ventilated, NEMA 250, Type 2 (NEMA 3R for outdoor installations). 6. Insulation class - 220°C, UL-component-recognized insulation system with a maximum of 150°C rise above 40°C ambient temperature. 7. Taps for transformers 25 kVA and larger - two 2.5 percent taps above and four 2.5 percent taps below normal full capacity. 8. Wall brackets - manufacturer's standard brackets. 9. Low-sound-level-requirements - minimum of 3 dba less than NEMA ST-20 standard sound levels when factory tested according to IEEE C57.12.91

N. GUARANTEE

- 1. Guarantee all material furnished and all workmanship performed for a period of one year from date of final acceptance of work. Any defects developing within this period, traceable to material furnished as a part of this section or workmanship performed hereunder, shall be made good at no expense to the owner.

O. SHOP DRAWINGS AND APPROVALS

- 1. The items specified herein and on drawings are used as a standard of quality, any materials of equal quality and aesthetic value will be given consideration as a substitute for the materials specified. No approval will be given to a specific catalog number, model, or type of equipment, prior to bidding. After bidding, the decision of the Architect and/or Engineer determining equal materials will be final. 2. The contractor shall submit shop drawings on the following items: 3.1. Lighting fixture cuts and performance data. 3.2. Outline drawings and data sheets of each panelboard and switchboard. 3.3. Outline drawings of all switchgear. 4. Submit items at one time in a neat and orderly manner within 15 days of award of contract. Partial submittals will not be acceptable.

P. RECORD AND AS-BUILT DRAWINGS

- 1. The Electrical Contractor shall maintain a set of drawings at the job site for the exclusive purpose of maintaining a record of all work installed and to show any deviations from the work indicated on the drawings. 2. At the completion of the project, one set of reproducible drawings, showing all As-Built conditions, shall be delivered to the Owner for acceptance prior to final payment.

Q. HOUSEKEEPING PADS

- 1. Provide a minimum of 3" high housekeeping pad above finished floor/ finished grade for all floor-mounted switchgear, switchboards, distribution boards, transformers, motor control centers, etc., flush with the face of the equipment. Located in mechanical central plants(s), other mechanical spaces, and located outdoors, pads shall be flush with the face of the equipment. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads. 2. Unless otherwise noted above, provide a minimum of 1-1/2" high housekeeping pad above finished floor/finished grade for all interior floor-mounted switchgear, distribution boards, transformers, motor control centers, transfer switches, etc., flush with the face of the equipment. All housekeeping pad heights are as measured from finished floor or grade. Confirm pad dimensions with local inspector prior to forming pad to ensure local code interpretations/conditions are met regarding housekeeping pads. 3. Provide a 1-1/2" high housekeeping pad above finished floor/finished grade for service equipment. Prior to pad rough-in, Contractor shall verify serving utility company's maximum meter height requirements and, if necessary, adjust height of housekeeping pad to comply with those requirements. In indoor applications, the housekeeping pad shall be flush with the face of the switchgear. In outdoor applications, the housekeeping pad shall extend a minimum of 4 feet from the front of switchgear's weatherproof enclosure. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads. 4. All housekeeping pads located in, on, or attached to a building shall be seismically braced/connected to the building structure.

R. EQUIPMENT CONNECTIONS

- 1. Provide flexible connections to all HVAC equipment, water heater, etc any equipment over 20 lb and/or mounted above finished floor. 2. Coordinate electrical requirements for all plumbing and mechanical equipment with final Contractor selection. The Contractor shall size disconnects based upon circuit breaker ratings and provide fusing as required per equipment manufacturer recommendations and UL Listing requirements.

S. MOTORS

- 3. Where motors are installed in suspended ceilings, contractor shall provide disconnect switch in suspended ceiling within reach from access point. 4. Sizing of motor-related electrical components, including feeder and/or branch circuits (wire and conduit) and overcurrent protection (breaker and/or fuses) is based on ratings indicated in the contract documents as well as NEC approximated loads for a given motor horsepower, voltage and phase. It is the contractor's responsibility to verify actual motor and appliance rating and loads. Contractor to provide correctly sized motor overload electrical components based on nameplate rating. Refer all changes in the as-built drawings.

T. FIRE SYSTEM

- 1. Contractor shall engage the services for a state licensed fire alarm manufacturer/installer to prepare all design drawings and calculations required for system approval by the authority having jurisdiction. Submit all plans and provide all permits required for a complete and operable approved life safety system. 2. Fire alarm device wiring shall be minimum #14 AWG copper or per system manufacturer requirements. Provide minimum 3/4" separate raceway system or as required for life safety system wiring configuration. 3. Upon completion of the installation of life safety system wiring and devices, a performance test of the entire life safety shall be performed to the satisfaction of the authority having jurisdiction.

U. LOW VOLTAGE SYSTEMS

- 1. Music, television, video mounting systems are not shown on these drawings and are provided by Contractor through architects schedules/details. Contractor to coordinate all routing and final connections as approved by Starbucks Manager as applicable specifically to this store.

V. IDENTIFICATION OR EQUIPMENT LABELING

- 1. Nameplates shall be provided for switchgear, switchboards, distribution boards, distribution panels, panel boards, motor control centers, transformers, transfer switches, contactors, starters, disconnect switches, enclosed circuit breakers/switches, inverters, UPS's, PDU's, RDC's, SPD's, lighting control panels, dimming panels, door releasing system panels, fire alarm/central monitoring terminal cabinets/power supplies/control panels, and all low voltage system terminal and control cabinets. 1.1. Nameplate inscriptions shall be identical to the equipment designations indicated in plans and specifications. Nameplates shall be engraved with the device designation/identification on the top line, source identification for the device on the 2nd line per NEC, or CEC where adopted, Art 408.4 and load designation for the device on the bottom line. Where load designation consists of a branch circuit, omit bottom line. Where device designation is not intended on plan/specifications, Contractor shall submit a written clarification request to the Engineer. 1.2. All circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU sub-feed circuit breakers and motor control centers shall have individual nameplates located immediately adjacent to the respective device. Nameplate inscription shall identify the downstream equipment or device served by the circuit breaker or fuse. 2. Identification nameplates, unless otherwise noted (UON), shall be laminated/extruded modified acrylic or melamine plastic labels that is 3/32" thick, UV-stabilized, matte finish, suitable for use in 180°F ambient, with beveled edges and engraved white letters 3/8" high, minimum, on 1-1/2" high black background for single line of text. Where two lines of text are required, provide minimum 2" high nameplate. Where three lines of text are required, provide 2.5" high nameplate. Provide white letters on red background for all NEC, or CEC where adopted, Article 517 essential power systems, Article 700 Emergency Systems, Article 701 Legally Required Standby Systems and Article 708 COPS. 3. Identification nameplates for new switchgear, switchboards, distribution boards, distribution panels, panel boards and motor control centers shall be attached with switchgear manufacturer-provided screws via switchgear manufacturer factory pre-drilled holes. A factory option to rivet identification nameplates to the equipment is only acceptable if screw-fastened nameplates are not an available option from the switchgear manufacturer. Field drilling or other mechanical attachment methods that change/void the NEMA or NRTL rating of the enclosure are strictly forbidden. 4. Identification nameplates for transformers, transfer switches, disconnect switches, enclosed circuit breakers/switches, inverters, UPS's, PDU's, RDC's, SPD's, lighting control panels, dimming panels, door-releasing system panels, terminal cabinets and all circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU's, PDU sub-feed circuit breakers, and motor control centers shall be attached to the equipment by self-adhesive backing integral to the nameplates. When equipment is located outdoors, provide nameplates without self-adhesive backing and attach to equipment using weather-rated, UV-resistant epoxy. In all cases, clean surfaces before applying identification nameplates parallel to equipment lines. 5. Warning Placards, as required by General Single Line Diagram Notes for multiple power sources, or instruction placards, as required for all kirk-key interlock schemes, all UPS bypass procedures or as required elsewhere in the plans/specifications shall be engraved 1/2" high with white lettering on red background using the same material specified for identification nameplates with a self-adhesive backing. Warning/Instruction placards shall be attached to the face of the equipment directly related to the placards.



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**REVISIONS**

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

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JUICE BAR.

PROJECT NAME  
**NEKTER - LEE'S SUMMIT, MO**  
940 NW PRYOR ROAD, UNIT: G,  
LEE'S SUMMIT, MISSOURI 64081

SHEET NAME  
**KITCHEN EQUIPMENT SCHEDULE**

DRAWN	CHECKED	WR
DATE	09/22/21	
SCALE	AS NOTED	
PROJECT NUMBER		
SHEET		

**E003**

MARK	QT.	DESCRIPTION	EQUIPMENT SIZE	MANUFACTURER	MODEL	REMARKS	SUPPLIED BY		INSTALLATION BY		ELECTRICIAN HOOK-UP	GC PLUG IN/TURN ON
							NSF	UL	FRANCHISEE CONSOLIDATOR	GC		
CH1	1	CHEMICAL DISPENSER				CHEMICAL DISPENSER PER NEKTER SPECIFICATIONS						
DES1A	1	EPOXY COATED WIRE RACK	18"x30"x86"	THUNDER GROUP	CMEP1830	GC TO ASSEMBLE AS PER PLAN- 4 SHELVES AND POSTS						
DES7A	1	EPOXY COATED WIRE RACK	24"x 30" x 86"	THUNDER GROUP	CMEP2430	GC TO ASSEMBLE PER PLAN - 4 TIER SHELVING ON 86" POSTS						
DES8	1	EPOXY COATED WIRE RACK	24" x 36" x 74"	THUNDER GROUP	CMEP2436	GC TO ASSEMBLE AS PER PLAN- 5 TIER SHELVING ON 74" POSTS						
DES10	1	EPOXY COATED WIRE RACK	24" x 48" x 86"	THUNDER GROUP	CMEP2448	GC TO ASSEMBLE AS PER PLAN- 4 SHELVES AND POSTS						
DES11	1	EPOXY COATED WIRE RACK	24"x60"x86"	THUNDER GROUP	CMEP2460	GC TO ASSEMBLE AS PER PLAN- 4 SHELVES AND POSTS						
DES11A	2	EPOXY COATED WIRE RACK	24"x60"x74"	THUNDER GROUP	CMEP2460	GC TO ASSEMBLE AS PER PLAN- 5 TIER SHELVING ON 74" POSTS						
DSR8	1	CHROME WIRE RACK	24" x 36" x 86"	THUNDER GROUP	CWV51842	GC TO ASSEMBLE AS PER PLAN- 4 TIER SHELVING ON 86" POSTS						
DS2	2	STAINLESS STEEL WALL MOUNT SHELF	14" W x 48" L	GSW	WS-W1448	GC TO INSTALL AS PER PLAN - ADD WALL BACKING AS NEEDED						
DS3	1	STAINLESS STEEL WALL MOUNT SHELF	14" W x 60" L	GSW	WS-W1460	GC TO INSTALL AS PER PLAN - ADD WALL BACKING AS NEEDED						
E110	1	SAFE	20x18x26	MESA SAFE CO.	MFL2014E	SYSTEM SUPPLIED BY VENDOR VIA OWNER						
E115	2	PAPER TOWEL DISPENSER OR EQUAL	12 3/4 x 12 1/2 x 8 1/2	SAN JAMAR	T950TBK	G.C. TO LEAVE THE KEY TAPED TO TOP OF THE DISPENSER						
E120	3	WALL MOUNTED SOAP DISPENSER	6 1/8 x4 1/8 x 4 1/4"	SAN JAMAR	S30TBK							
E125	1	MOP RACK	17 11/16" X 2 5/8"	T&S BRASS	B-0653							
E141	1	EMPLOYEE LOCKERS	12W" x 12D" x 78H"	WIN-HOLT EQUIPMENT	WL-66/15/RD/OB	VENTED, OPEN BASE, RIGHT DOORS						
EPOS1	1	POS - REGISTER WITH COMPACT CASH DRAWER				SYSTEM SUPPLIED BY VENDOR VIA OWNER - GC TO PROVIDE ALL REQUIRED CONDUITS						
EPOS2	3	TICKET PRINTER		NCR	7137-0035-8801	SYSTEM SUPPLIED BY VENDOR VIA OWNER - GC TO PROVIDE ALL REQUIRED CONDUITS, QJAD & DATA BOX						
EPOS3	1	CASH DRAWER	4 3/4" H x 16 1/2" W x 16 1/2" D	NCR	CD-101A	SYSTEM SUPPLIED BY VENDOR VIA OWNER						
EW50	4	EPOXY-COATED WALL MOUNTED WIRE SHELF	14"x30"	THUNDER GROUP	CMEP1430	ABOVE 3 COMP SINK @ 5' AFF ADD WALL BACKING						
EW53	16	EPOXY COATED WALL BRACKET	14"	THUNDER GROUP	WBEP214	ABOVE 3 COMP SINK @ 5' & 6'-6" AFF, ADD WALL BACKING						
EW56	4	EPOXY-COATED WALL-MOUNTED WIRE SHELF	14"x60"	THUNDER GROUP	CMEP1460	ABOVE 3 COMP SINK @ 5' AFF ADD WALL BACKING						
F71	1	MANAGER STATION	REFER TO PLANS	MILL WORKER / GC	REFER TO PLANS	GC TO ASSEMBLE AND INSTALL						
F76	1	OFFICE CHAIR		DIY		GC TO ASSEMBLE AND INSTALL						
ST18	1	STAINLESS STEEL TABLE 4" REAR BACKSPLASH	2' L x 2' D x 2"11"H, 4" BACKSPLASH	GSW	WT-PB2424	GC TO ASSEMBLE						
ST48	1	STAINLESS STEEL TABLE	30"W x 48"L, 4" BACKSPLASH	GSW	WT-PB3048	2 UNDERSHELVES/CASTERS (S23) - TABLE HEIGHT TO BE 36" - GC TO ASSEMBLE						
ST114	1	TRASH CHUTE (IN-COUNTER, ROUND)	6 1/4" DIA- STAINLESS STEEL	VOLLRATH	3Y0502	6" ROUND IN HOLE - SILICONE ONTO COUNTERTOP						
TSJ1	1	SLIM JIM SERVICE AREA TRASH CAN	29.88 H" x 20" W x 11" D	CARLISLE	34202303							
RR60	5	SECURITY CAMERA		F'EE SUPPLIED		GC INSTALLED W/ ELECTRICAL AS LOW VOLT. AND TERMINATION						
-	2	360 DEGREE SECURITY CAMERA		F'EE SUPPLIED		GC INSTALLED W/ ELECTRICAL AS LOW VOLT. AND TERMINATION						
-	2	AUDIO SPEAKERS		F'EE SUPPLIED		GC INSTALLED W/ ELECTRICAL AS LOW VOLT. AND TERMINATION						
E5	1	REACH-IN SOLID SWING DOOR FREEZER	54 1/8" W x 29 1/2" D x 78 3/8" H	TRUE	TS-49FG-HC-FGD01	ELECTRICAL 115 / 60 / 1 - 9.6 A, HINGE LEFT						
E22	1	FOOD REFRIGERATED PREP TABLE	28"L x 30"D x 37"H	TRUE	TSSU-27-08	ELECTRICAL - 115V/60/1 - 4.9A., WITH FLAT LID						
E27	1	FOOD REFRIGERATED	28"L x 30"D x 33.5"H	TRUE	TWT-27F-HC	ELECTRICAL - 115V/60/1 - 2.0A., HINGE RIGHT						
E30	1	WORKTOP FREEZER	49"L x 30"D x 33.5"H	TRUE	TWT-48F-HC	ELECTRICAL - 115V/60/1 - 3.2A.						
E40	1	REFRIGERATOR SELF SERVICE COUNTER	39" L x 28"D 78 1/2" H	TURBO AIR	TOM40-B	ELECTRICAL: 115 / 60 / 1 / 15A. INSTALL TOTAL OF (6) CASTERS, ONE AT EACH CORNER AND (2) AT THE CENTER EDGES TO ENCOMPASS THE ENTIRE EDGE OF THE UNIT						
E48	1	DIPPER WELL SQUARE	15 1/4" W x 10 5/8" D x 5 1/4" H	SERVER	87750	ELECTRICAL: 120V / 400W / 3.3A						
E51	3	BLENDER	8"Wx9"Dx20.3"H	VITAMIX	748	ELECTRICAL: 120 V, 50/60 Hz, 13.0 A						
E58	2	MULTI FRUIT JUICER	20.1" x 19.7" x 11.4"	ZUMMO	Z22C	ELECTRICAL - 110V / 60HZ / 800W						
E63	1	ICE MAKER	39" x 24" x 24.58"	ICE-O-MATIC	ICEU220A	ELECTRICAL - 110V/60/1 - 11.9MCA / FUSE SIZE - 15.- GC/PLUMBER TO INSTALL AS PER PLAN						
E64	1	REACH-IN SINGLE SOLID DOOR FREEZER, WITH 6" CASTERS	27" W x 29 7/8" D x 78 3/8" H	TRUE	T-23FG-HC-FGD01	ELECTRICAL 115 / 60 / 1 - 6.2 A, HINGE LEFT						
E65	1	DEEP WELL UTILITY CART	17 1/2"W x 34 1/2" L x 32 3/4" H	LAKESIDE MANUFACTURING	2521	INSTALL TOTAL OF (4) CASTERS, ONE AT EACH CORNER						
E68	1	WATER FILTER	-	ICE-O-MATIC	IF01							
E99	3	SNEEZE GUARD GLASS	-	TBD	TBD							
E105	4	SNEEZE GUARD POST	-	TBD	TBD							
E158	1	OATMEAL WARMER	17 3/8" W x 15 1/4" D x 13 1/2" H	ZOJIRUSHI	NYC-36	ELECTRICAL 120V / 1,300 W, STAINLESS STEEL COLOR						
SE-01	1	FIRE EXTINGUISHER	-	-	-							
E42	6	DELI CASE CASTERS	-	KROWNE METAL	28-109S	PROVIDE TOTAL OF 6 CASTERS, SEE CASTER NOTE FOR E40						
E63.1	1	ICE SCOOP	-	INFRA	ISH-512							
E79	1	WALK-IN COOLER	8'-4" x 8'-0" x 6'-0"	MASTER-BILT MANUFACTURING	QSB8468-CX							
E126	2	TICKET RAIL	18" L	TABLECRAFT	5518							
E128	2	TICKET RAIL	36" L	TABLECRAFT	5536							
E129	1	KNIFE RACK	24" L	ONEIDA	MTH-24P							
F3B	1	WINDOW BAR	12"Wx7"-0"L	TBD	TBD	CUSTOM BUTCHER BLOCK BAR TOP						
F3C	1	ADA WINDOW BAR	12"Wx5"-0"L	TBD	TBD	CUSTOM BUTCHER BLOCK BAR TOP; POPLAR, 1 1/2" STOCK WITH MS1 & FB3						
F25B	5	ADA BOLT DOWN BAR BASE - INTERIOR	-	ASTRA	1238	ACCESSIBLE HEIGHT BAR BOLT DOWN BASE						
F44	2	BACKLESS BARS/STOOL	-	ASTRA	5697	GC TO ASSEMBLE AND INSTALL						
M1	1	NEKTER MEDALLION	47" DIAMETER	F'EE SUPPLIED		GC INSTALLED						
WAF1	1	HORIZONTAL WALL ART	-	F'EE SUPPLIED		FRANCHISEE PROVIDED ARTWORK, GC INSTALLED						
WAF2	2	VERTICAL WALL ART	-	F'EE SUPPLIED		FRANCHISEE PROVIDED ARTWORK, GC INSTALLED						

MARK	QT.	DESCRIPTION	EQUIPMENT SIZE	MANUFACTURER	MODEL	PLUMBING CONNECTION SIZE						REMARKS	SUPPLIED BY		INSTALLATION BY		ELECTRICIAN HOOK-UP	GC PLUG IN/TURN ON	
						CW	HW	W	V	GAS	CFH		NSF	UL	FRANCHISEE CONSOLIDATOR	GC			CONSOLIDATOR
FX16	4	FLOOR SINK	12" x 12" x 6"	ZURN	1900-25	0"	0"	1 1/2"	1 1/2"										
S1	2	16" WIDE HAND SINK W/ SPLASH GUARDS	H = 18-1/2" x W = 16" x D = 15"	KROWNE	HS-26L	1/2"	1/2"	2"	1 1/2"										
S7 & S8	1	MOP SINK COMPOSITE/MOP SINK w/ BACK FLOW PREVENTER DEVICE	24" x 24" x 12"1/8" WALL MOUNTING MIXING	MUSTEE/ T&S	63M / B-0665-BSTR	1/2"	1/2"	3"	2"										
S17	1	(SINGLE) COMPARTMENT SINK (LEFT DRAIN BOARD)	24" x 39 1/8" x 45"	GSW	SE18181L	1/2"	1/2"	2"	1 1/2"										
S57	2	3 COMPARTMENT SINK - CORNER	57 1/2"x57 1/2"x30"	GSW	SE18183C	1/2"	1/2"	2"	1 1/2"										
S62	7	WASTE VALVE	-	T&S BRASS															
S73	2	FAUCET ASSEMBLY AT 3-COMPARTMENT CORNER AND SINGLE COMPARTMENT SINK	-	T&S BRASS	B-0230-CR-LN, BR-0230-LN, 060X, B-0230-K														
S75	1	SINGLE FAUCET WALL-MOUNT FILLER	-	T&S BRASS	B-0212														
S76	1	THREE COMPARTMENT SINK - PRE-RINSE & FAUCET ASSEMBLY	-	T&S BRASS	5PR-8W12, B-0230-K														
WH-1	1	WATER HEATER	55"H x 20.5" DIAM.	A.O. SMITH	DEN-52	3/4"	3/4"												

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## LUMINAIRE SCHEDULE

TAG	MANUFACTURER & MODEL NO.	LAMP	CCT	V A I SYSTEMS WATTS	GENERAL DESCRIPTION	NOTES
LTF-1	LITHONIA LIGHTING EPANEL-24-40L-35K OR APPROVED EQUAL	LED	3500	39	2'X4' LAY-IN TROFFER (WHITE COLOR TRIM) W/ INTEGRAL 90-MIN EMERGENCY BATTERY BACK-UP	INTERIOR
LRC-1	AMERLUX HOUSING: CLX-R6-NC-A17-25-120-D10V TRIM: CLX-RD6-A17-SDW-FL-3500K-83 OR APPROVED EQUAL	LED	3500	25	6" RECESSED LENSED LED DOWNLIGHT (MATTE WHITE TRIM)	INTERIOR
LEB-1	JUNO HOUSING: IC22 SERIES TRIM: 28W-WH EYEBALL OR APPROVED EQUAL	LED	3500	14	6" WALLWASH DOWNLIGHT	INTERIOR
DLB-1	KUZCO LIGHTING PD1712-BK OR APPROVED EQUAL	LED	2700	12	11-3/4" DIA CHROMA PENDANT	INTERIOR
LTB-6	WAC LIGHTING MQ-2020-935-BK OR APPROVED EQUAL	LED	3500	20	SIL0 X20 MOMOPOINT	INTERIOR
LE-2	LITHONIA LIGHTING LX-W-G	LED	---	2.5	EXIT LIGHT, GREEN LETTERS AC ONLY	INTERIOR

## LIGHTING PLAN GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
- ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.

## KEY NOTES

- LOCATION OF SWITCH BANK
- RUN LIGHTING CIRCUIT VIA SWITCH, PROVIDE ADDITIONAL HOT WIRE FOR EXIT SIGN AND EMERGENCY LIGHTS.
- PROVIDE OCCUPANCY SENSOR FOR FULLY SHUT OFF. PROVIDE ADEQUATE SENSOR DEVICES SENSING ENTIRE ENCLOSED SPACE WHERE THE SYMBOL LOCATED.
- LIGHTING INSIDE THE COOLER/FREEZER SHALL BE PROVIDED BY THE COOLER/FREEZER MANUFACTURER. FINAL CONNECTION BY E.C. SEE POWER PLAN FOR BRANCH CIRCUIT
- PROVIDE AN EYS FITTING FOR CONDUITS THAT ENTER AND EXIT FREEZERS AND COOLER. OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLING SEALANT.
- CONNECT EXHAUST FAN TO LIGHT FIXTURE, (INTERLOCKED TO THE LIGHT CONTROL SWITCH).

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES MISSOURI



**Kinetic Design**  
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Lake Forest, CA. 92630  
Main: 951.710.6334 Web: kineticdesign.build  
Email: info@kineticdesign.build



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### REVISIONS

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

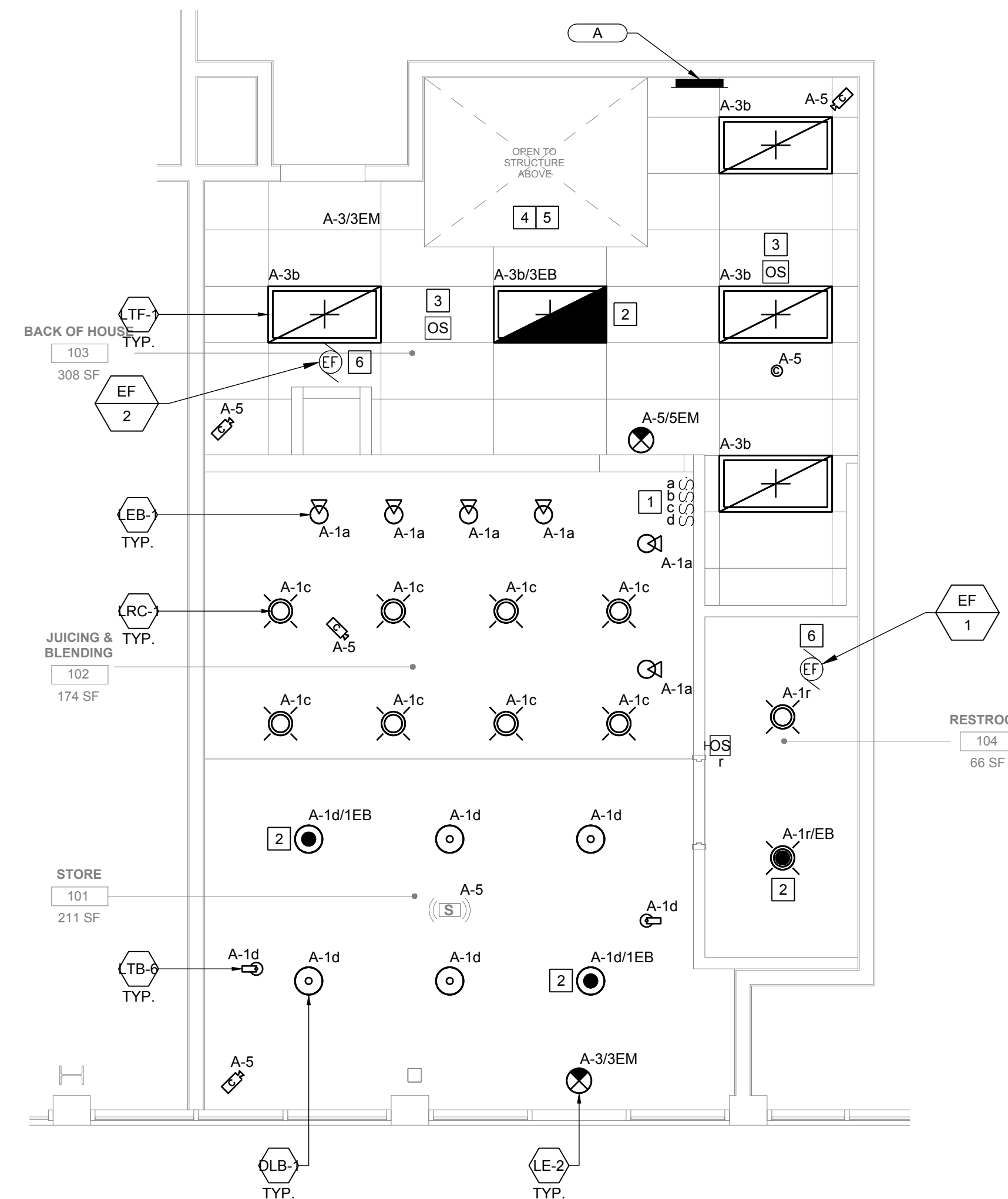
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JUICE BAR.

PROJECT NAME  
**NEKTER - LEE'S SUMMIT, MO**  
940 NW PRYOR ROAD, UNIT: G,  
LEE'S SUMMIT, MISSOURI 64081

SHEET NAME  
**LIGHTING PLAN**

DRAWN	CHECKED
JB	WR
DATE	09/22/21
SCALE	AS NOTED
PROJECT NUMBER	
SHEET	

# E201



## LIGHTING PLAN

Scale: 1/4" = 1'-0" 1

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**POWER PLAN GENERAL NOTES**

- ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
- MULTI-WIRED (SHARED NEUTRAL) BRANCH CIRCUITS SHALL NOT BE INSTALLED. ALL 120 & 277 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED INDIVIDUAL NEUTRAL CONDUCTOR.
- PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY GFCI CIRCUIT BREAKER(S) WHEN LOCATED WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
- ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING TYPE RECEPTACLES THROUGHOUT BUILDING SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES, NO EXCEPTIONS.
- ALL RECEPTACLES IDENTIFIED AS WEATHERPROOF ON THE DRAWINGS SHALL BE WEATHER-RESISTANT, TAMPER-RESISTANT, GFCI TYPE AND EQUIPPED WITH ENCLOSURE THAT IS WEATHERPROOF (WP) WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED (WHILE "IN-USE"), AN OUTLET BOX HOOD SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY".

**POWER PLAN KEYNOTES**

- PROVIDE RECEPTACLES MOUNTED WITHIN MILLWORK FOR EQUIPMENT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH GC PRIOR TO BID AND ROUGH-IN.
- RECEPTACLE FOR SHOW WINDOW AS REQUIRED BY CODE. VERIFY WITH LOCAL AGENCY. CONNECT TO CIRCUIT NOTED.
- PROVIDE 120V POWER FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. CONTRACTOR SHALL INSTALL, WIRE AND PROVIDE LAMPS FOR WALK-IN COOLER LIGHTS.
- MAKE PENETRATIONS IN WALK-IN COOLER W/ CONDUIT SEALING FITTINGS & NIPPLE TO CAST FIXTURE J-BOX. CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL HAVE JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. PROVIDE SEALING COMPOUND AFTER WIRING IS FINISHED.
- REQUIREMENTS FOR WALK-IN COOLER:
  - A. PROVIDE WIRING TO EVAPORATOR
  - B. PROVIDE CONTROL WIRING BETWEEN CONDENSER & EVAPORATOR IF REQUIRED BY INSTALLATION INSTRUCTION
  - C. INSTALL FREEZER & COOLER LIGHT FIXTURES THAT ARE SHIPPED LOOSE.
  - D. PROVIDE POWER AND CONTROL WIRING FOR FREEZER CONDENSER AND HEAT TAPE DIRECTLY FROM FREEZER CONDENSER.
  - E. VAPOR SEAL ALL CONDUIT PENETRATIONS. PENETRATIONS MUST BE PROPERLY SEALED AGAINST COLD LOST AND INFILTRATION TO PREVENT CONDENSATION AND ICE FORMATION. SILICONE CAULKING IS THE RECOMMENDED SEALANT AROUND PENETRATED ITEMS.
- PROVIDE ASTRONOMICAL TIMECLOCKS, MOUNTED AT 44" AFF, COORDINATE LOCATION WITH LANDLORD.
- PROVIDE 24"x24"x3/4" FIRE RATED PLYWOOD BACKBOARD WITH QUAD RECEPTACLE ELECTRICAL CONTRACTOR TO PROVIDE TELEPHONE CONDUIT FROM LANDLORD'S DEMARK, CONTRACTOR TO VERIFY DEMARK LOCATION PRIOR TO BID. PROVIDE FIRE RATED LABEL AND DO NOT PAINT BACKBOARD.
- PROVIDE WEATHERPROOF J-BOX AND MANUAL DISCONNECT SWITCH FOR CONNECTION TO BUILDING EXTERIOR SIGN(S), SIGN CONTROLLED BY ASTRONOMICAL PROGRAMMABLE TIME CLOCK. COORDINATE WITH LANDLORD REQUIREMENTS AND SIGNAGE VENDOR.
- PROVIDE A 60AS/50AF/3P DISCONNECT SWITCH ON WALL FOR WALK-IN COOLER CONDENSING UNIT.
- PROVIDE DUPLEX/USB OUTLETS IN MILLWORK 22" AFF AS SHOWN. COORDINATE INSTALLATION WITH MILLWORK DRAWINGS.
- PROVIDE DUPLEX/USB OUTLETS IN MILLWORK 44" AFF AS SHOWN. COORDINATE INSTALLATION WITH MILLWORK DRAWINGS.
- SNUG UNDER COUNTERTOP SEE MILLWORK ELEVATIONS
- POWER @+18" AFF
- POWER @+30" AFF
- POWER @+42" AFF
- DATA/POWER @+65" AFF
- CONTRACTOR TO RE-ROUTE EXISTING CONNECTION UNIT TO NEW PANEL.

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**REVISIONS**

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

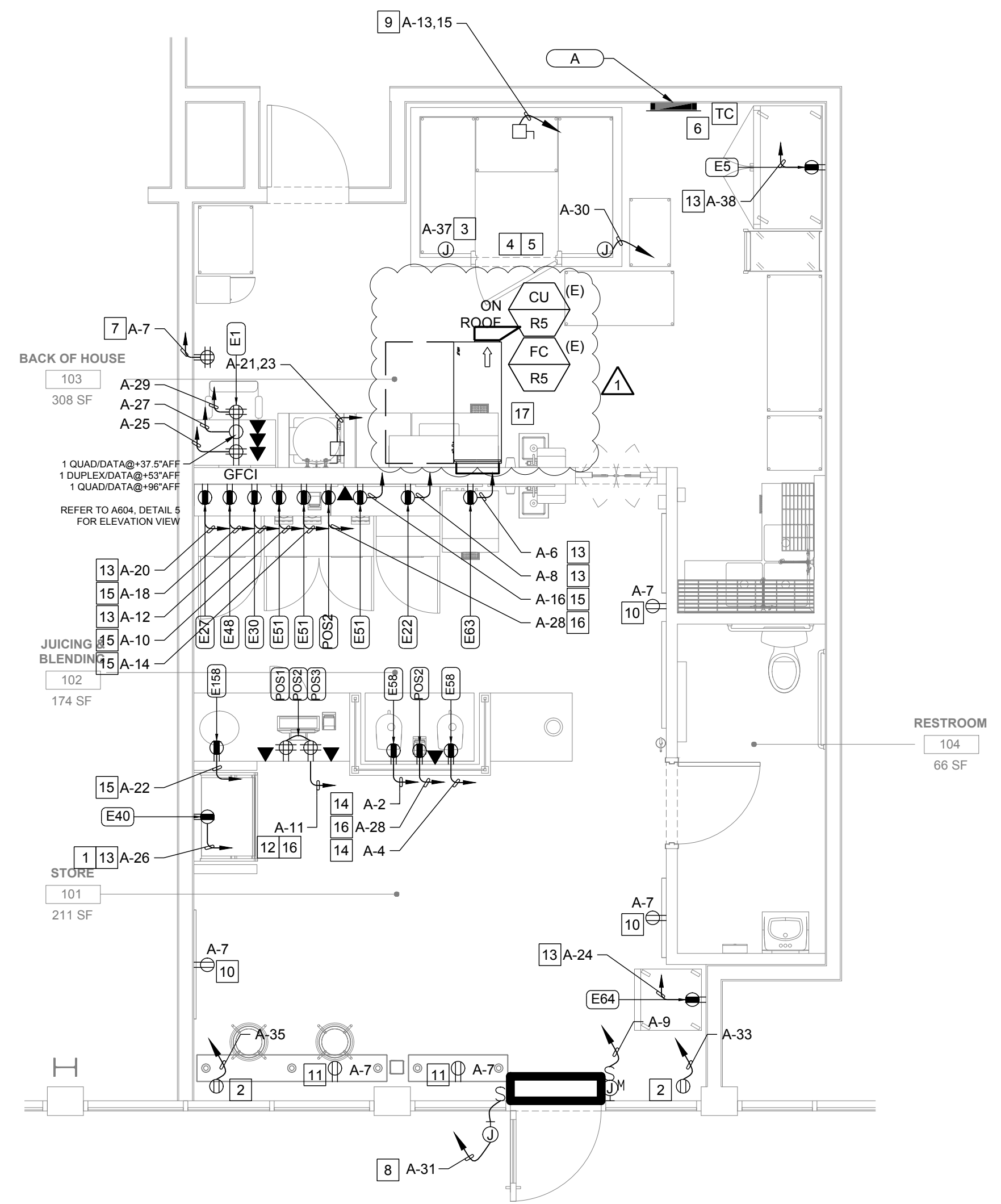


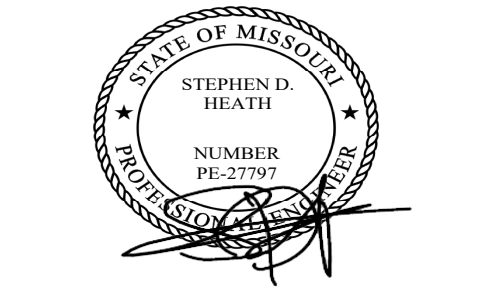
**NEKTER - LEE'S SUMMIT, MO**  
940 NW PRYOR ROAD, UNIT: G,  
LEE'S SUMMIT, MISSOURI 64081

PROJECT NAME  
SHEET NAME

PROJECT NAME	DATE	SCALE	PROJECT NUMBER	SHEET
NEKTER - LEE'S SUMMIT, MO	09/22/21	AS NOTED		

**E301**





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REVISIONS		
No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION



PROJECT NAME: **NEKTER - LEE'S SUMMIT, MO**  
 940 NW PRYOR ROAD, UNIT: G,  
 LEE'S SUMMIT, MISSOURI 64081

SHEET NAME: **SINGLE LINE DIAGRAM**

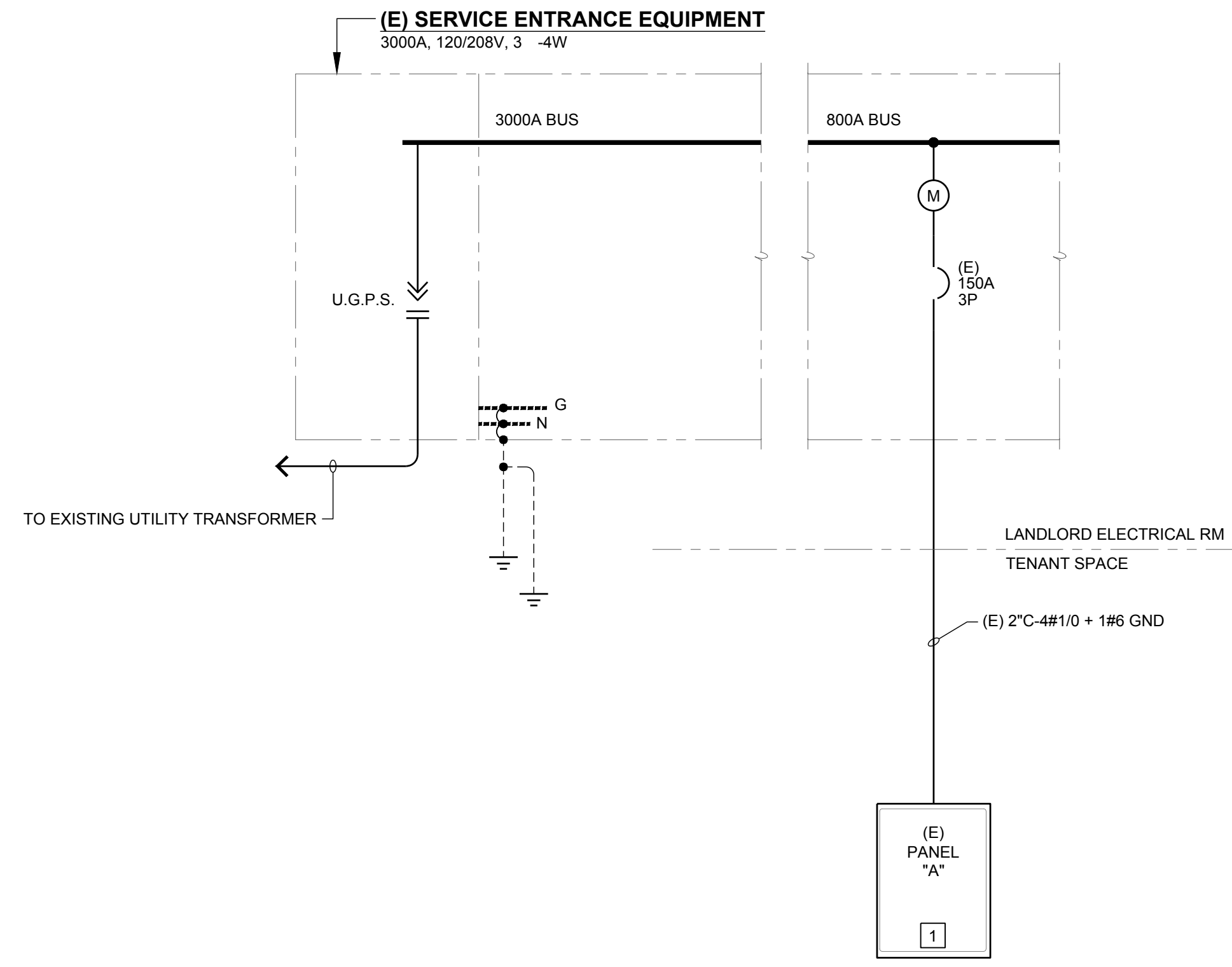
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DATE: \_\_\_\_\_ 09/22/21

SCALE: \_\_\_\_\_ AS NOTED

PROJECT NUMBER: \_\_\_\_\_

SHEET: **E401**



**REFERENCE NOTES**

1 EXISTING PANEL WITH REVISED LOADS. REFER TO PANEL SCHEDULE THIS SHEET. ALL NEW CIRCUIT BREAKERS INSTALLED WITHIN PANELBOARD SHALL MATCH THE HIGHEST EXISTING AIC RATED BREAKERS WITHIN PANELBOARD. INSPECTOR TO VERIFY AT SITE.

**1 PARTIAL SINGLE LINE DIAGRAM**  
SCALE: NONE

MFR:		PANEL: "A"						*PANEL IS EXISTING							
MOUNTING: <u>RECESSED</u>		DOUBLE LUG: <u>NO</u>		VOLTS: <u>208Y/120V</u>		PROVISIONS FOR SUB-METER: <u>YES</u>		MAIN: <u>MLO</u>		BUS: <u>225A</u>		A.I.C.: <u>18,000</u>			
NEMA 3R: <u>NO</u>		200%: <u>NO</u>		PHASES: <u>3</u>		DISAGGREGATION TYPE: <u>NO</u>									
FEED THRU: <u>NO</u>		I/G BUS: <u>NO</u>		WIRE: <u>4</u>											
LOAD DESCRIPTION	TRIP AMPS	POLES	A	B	C	A	B	C	POLES	TRIP AMPS	DESCRIPTION	CIRCUIT	NOTES		
L 1 BOHSTORE LTG	20A	1	485			1300			1	20A	E58 MULTI JUICER	2	K		
L 3 FOH HALLWAY /RR	20A	1		507			1300		1	20A	E58 MULTI JUICER	4	K		
R 5 LOW VOLTAGE EQUIPMENT	20A	1			500			1309	1	20A	E63 ICE MAKER	6	K		
R 7 CONVENIENCE REC.	20A	1	500			564			1	20A	E22 FOOD REFRIGERATED PREP TABLE	8	K 3		
M 9 E136 AIR CURTAIN	20A	1		276			1560		1	20A	E51 BLENDER #1	10	K		
R 11 POS 1/POS2/POS3	20A	1			600			368	1	20A	E30 WORKTOP FREEZER	12	K 3		
K 13 E79 WALK-IN COOLER	20A	2	345			1560			1	20A	E51 BLENDER #2	14	K		
K 15				345			1560		1	20A	E51 BLENDER #3	16	K		
M 17 (E) FC-R5	15A	2		676			400		1	20A	E48 DIPPER WELL SQUARE	18	K		
M 19			676			230			1	20A	E27 FOOD REFRIGERATED	20	K 3		
N 21 WH-1	30A	2		1498			1300		1	20A	E158 OATMEAL WARMER	22	K		
N 23				1498			1285		1	20A	E64 REACH-IN REFRIGERATOR	24	K 3		
R 25 WORKSTATION (COMPUTER MONITOR)	20A	1	360			1725			1	20A	E40 REFRIDGE SELF SERVICE	26	K 3		
R 27 WORKSTATION (SECURITY MONITOR)	20A	1	360				300		1	20A	POS 2 (PRINTER)	28	K		
R 29 WORKSTATION (POS & COMPUTER)	20A	1			600			1020	1	20A	HEAT TRACE COOLER	30	R		
L 31 SIGNAGE	20A	1	1200			3411			2	50A	(E) CL-R5	32	M		
R 33 WINDOW REC.	20A	1	500				3411					34	M		
R 35 WINDOW REC.	20A	1			500				1	20A	SPARE	36			
L 37 WALK-IN COOLER LTG	20A	1	300			1104			1	20A	E5 REACH-IN SOLID SWING DOOR FREEZER	38	K		
39 SPACE											SPACE	40			
41 SPACE											SPACE	42			
TOTAL LOAD DEMAND:			2A	11669	7566	59% PERCENT BALANCE									
TOTAL DEMAND AMPS:			12719	108 A	97 A										
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL LOADS											
CONTINUOUS LOAD = C	0	125%	0												
KITCHEN EQUIPMENT LOAD = K	16535	65%	10748	TOTAL CONN. LOAD (VA):		35413									
LIGHTING LOAD = L	2492	125%	3115	TOTAL EST. DEMAND (VA):		31954									
MOTOR LOAD = M	8450	100%	10156	TOTAL CONN. (AMPS):		98									
NON-CONTINUOUS LOAD = N	2996	100%	2996	TOTAL EST. DEMAND (AMPS):		89									
PANEL LOAD = P	0	100%	0												
RECEPTACLE LOAD = R	4940	100%	4940												

**PANEL SCHEDULE NOTES:**

1) PROVIDE LOCK-ON DEVICE.      5) PROVIDE "HACR" TYPE CIRCUIT BREAKER FOR HVAC EQUIPMENT.

2) PROVIDE LOCK-OFF DEVICE.

3) PROVIDE GFCI TYPE DEVICE.

4) PROVIDE A NEW BREAKER AT SAME TYPE AND AIC RATING IN PANEL.

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**COMcheck Software Version 4.1.5.1**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: Tekter  
 Project Type: New Construction

Construction Site: 940 NW Pryor Road, Retail Space 5, Lees Summit, MO 64081  
 Owner/Agent:  
 Designer/Contractor: Kinetic Design, 1260 Corona Point Court, Corona, CA 92879, (951) 710-6334, info@kineticdesign.build

Unspecified

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Nekter (Common Space Types:Sales Area)	800	1.59	1272
Total Allowed Watts =			1272

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Nekter (Common Space Types:Sales Area)				
LED 1: LTF-1: 2'X4' TROFFER: Other:	1	5	39	195
LED 2: LRC-1: DOWN LIGHT: Other:	1	10	25	250
LED 3: LEB-1: DOWNLIGHT ADJUSTABLE: Other:	1	6	14	84
LED 4: DLB-1: Pendant: Other:	1	6	12	72
LED 5: LTB-6: Monopoint: Other:	1	2	20	40
Total Proposed Watts =				641

**Interior Lighting PASSES: Design 50% better than code**

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Wenceslao Raymundo  
 Name - Title  
 Signature  
 Date: 07-30-2021

Project Title: Tekter  
 Data filename: \\10.6.0.15\KineticDesign\Nekter\Nekter Juice Bar - Lee's Summit, MO\02\_Drawings\03\_Electrical\Comcheck\Nekter.cck  
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] <sup>1</sup>	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18] <sup>1</sup>	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2, C405.2.2.3 [EL23] <sup>1</sup>	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2.1 [EL22] <sup>1</sup>	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.2 [EL20] <sup>1</sup>	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.3 [EL21] <sup>1</sup>	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4] <sup>1</sup>	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8] <sup>1</sup>	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6] <sup>1</sup>	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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**COMcheck Software Version 4.1.5.1**  
**Inspection Checklist**  
 Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software  
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

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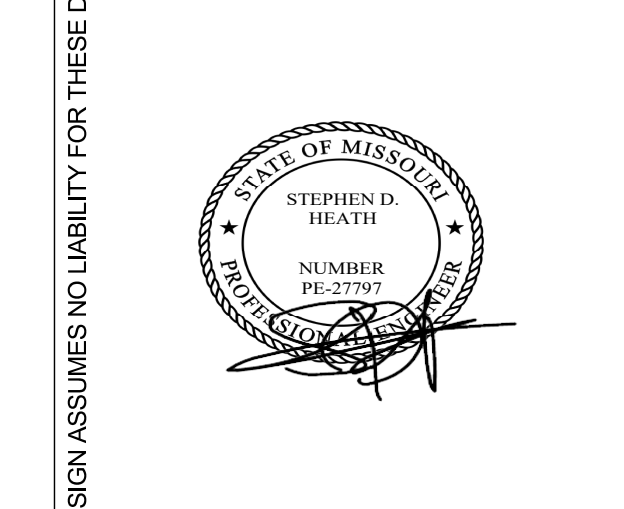
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, [F17] <sup>3</sup>	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F18] <sup>1</sup>	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5.1 [F16] <sup>1</sup>	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F33] <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES MISSOURI



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**REVISIONS**

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS



PROJECT NAME: NEKTER - LEE'S SUMMIT, MO  
 940 NW PRYOR ROAD, UNIT: G, LEE'S SUMMIT, MISSOURI 64081  
 SHEET NAME: INTERIOR LIGHTING COMPLIANCE CERTIFICATE

DRAWN	CHECKED
JB	WR

DATE: 09/22/21  
 SCALE: AS NOTED  
 PROJECT NUMBER:  
 SHEET: E501

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