ELECTRICAL GENERAL NOTES

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SITE, VERIFICATION OF ALL EXISTING AND NEW EQUIPMENT AND SYSTEMS TO REMAIN. IF ANY SYSTEMS OR EQUIPMENT ARE MISSING, DAMAGED OR MALFUNCTIONING THE CONTRACTOR SHALL PROVIDE NEW TO BE INSTALLED AS SPECIFIED AND REQUIRED BY 2023 NEC CODE.

2. GENERAL CONTRACTOR AND ELECTRICAL TRADES INVOLVED IN THE PROJECT ARE TO INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THEIR SPECIFIC MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, SPECIFIC CONTRACT DOCUMENTS AND ANY AND ALL APPLICABLE CODES AND REGULATIONS.

3. GENERAL CONTRACTOR TO COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS AND/OR DOCUMENTS. COORDINATE WITH AND PROVIDE ALL CONDUIT AND TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT.

4. COORDINATE WITH THE OWNER AND ARCHITECT TO ENSURE THAT THE PROGRESS OF ELECTRICAL WORK IS ON SCHEDULE AND THAT THE PROGRESS AND WORKMANSHIP OF OTHER TRADES IS ON SCHEDULE.

5. APPLY AND PAY FOR ALL PERMITS, FEES, LICENSEES AND INSPECTIONS FOR THIS DIVISION OF WORK.

6. COMPLY WITH ALL STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES. COMPLY WITH REQUIREMENTS OF THE UTILITY COMPANIES. IN THE CASE OF DIFFERENCES BETWEEN THESE REQUIREMENTS AND ORDINANCES, THE MOST STRINGENT SHALL GOVERN. CALL FOR INSPECTIONS REQUIRED BY LOCAL BUILDING INSPECTION AUTHORITY.

7. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT SHOWING ANY CHANGES REQUIRED IN ELECTRICAL WIRING, SPACE ALLOCATION, ETC. TO ARCHITECT.

8. THE LOCATION OF EXISTING UNDERGROUND/OVERHEAD/CONCEALED UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

9. PATCH AND REPAIR TO MATCH EXISTING ANY WALLS, CEILINGS, OR FLOORS ACCESSED DURING THE INSTALLATION OF CONDUIT AND WIRING.

10. MAINTAIN ONE SET OF REDLINED DRAWINGS ON THE JOB SITE INDICATING ALL CHANGES AND DEVIATIONS FROM THE WORK SHOWN ON THE DRAWINGS.

12. AT COMPLETION OF WORK, DELIVER COMPLETED PROJECT RECORD DOCUMENTS MARKED WITH FIELD CHANGES TO OWNER'S REPRESENTATIVE.

13. PROVIDE A WRITTEN WARRANTY TO THE OWNER COVERING THE ENTIRE ELECTRICAL WORK TO BE FREE FROM DEFECTIVE MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.

14. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONSTRUCTION DOCUMENTS TO THE LOCAL UTILITY COMPANY FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLATION OF ANY EQUIPMENT, HARDWARE OR WORK TO BE DONE.

15. UNLESS OTHERWISE NOTED OR AGREED UPON, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL WIRING, CABLES AND ELECTRICAL DEVICES EXISTING IN WALLS TO BE DEMOLISHED AND THE REMOVAL OF ALL OTHER REDUNDANT ELECTRICAL DEVICES NOT SHOWN ON PLANS. CUT BACK AND CAP UNUSED RACEWAYS AND OUTLETS AND REMOVE UNUSED WIRING BACK TO PANEL BOARD.

16. WHERE THE DISTRIBUTION OF POWER AND COMMUNICATION IS THROUGH A FLOOR SYSTEM, THE ELECTRICAL CONTRACTOR SHALL ENSURE ACCESS AT HAND HOLES AT ALL TIMES. PROVIDE FLOOR PAN COVERS THROUGHOUT THE PREMISES.

17. COORDINATION OF WORK SHALL BE DONE WITH ALL OTHER TRADES ON THE SITE TO THE EXTENT OF PROPERLY LOCATING ALL DEVICES, FIXTURES, EQUIPMENT, PIPING, DUCTWORK, ETC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS AND AT THE SITE.

18.PRIOR TO FINAL ACCEPTANCE, THOROUGHLY CLEAN ALL WORK.

19. ACCESS DOORS & PANELS ARE TO BE SUPPLIED BY CONTRACTOR AND LOCATED ON THE SITE BY THIS TRADE WHERE REQUIRED TO SERVICE NEW OR EXISTING EQUIPMENT AND/OR SYSTEMS. COORDINATE INSTALLATION WITH REQUIRED TRADES.

20. CONNECTIONS TO EQUIPMENT THAT PRODUCE NOISE AND OR VIBRATIONS (TRANSFORMERS, MOTORS, GENERATORS, ETC.) SHALL BE MADE WITH FLEXIBLE CONDUIT. USE A MINIMUM 3 FEET OF FLEXIBLE CABLE WITH SLACK AT EACH DEVICE.

21. PROVIDE HANGERS, INSERTS (OF A LEAD SHIELD TYPE) AND SUPPORTS, AS REQUIRED. SUPPORT ALL BRANCH CONDUITS FOR POWER AND COMMUNICATIONS FROM BUILDING STRUCTURE. DO NOT CADDE CLIP TO CEILING HANGERS.

22. PULL BOXES SHALL BE PROVIDED FOR ALL CONDUIT RUNS OF 50' AND/OR MORE THAN THE EQUIVALENT OF 2-90° ENDS.

23. GROUNDING PROVIDE ALL EQUIPMENT GROUNDING AS REQUIRED TO CONFIRM WITH THE APPLICABLE SAFETY CODE. ARRANGE GROUNDS SO UNDER NORMAL OPERATING CONDITIONS NO INJURIOUS AMOUNT OF CURRENT WILL FLOW IN ANY GROUNDING CONDUCTOR. ENSURE CONTINUITY OF EQUIPMENT GROUNDING SYSTEMS (RACEWAYS, CONNECTORS, ACCESSORIES) AND CONNECT TO THE EXISTING BUILDING SYSTEM AT THE NEAREST LOCATION. CONFORM TO THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. INSULATED GROUNDING CONDUCTORS SHALL BE GREEN.

24. LIGHTING SYSTEM TEMPORARILY LIGHTING SHALL BE PROVIDED THROUGHOUT PROJECT AS REQ., WHERE REQUIRED BY GENERAL CONTRACTOR.

25. CIRCUITRY SHOWN ON PLANS IS FOR GROUPING PURPOSES ONLY. EXACT CIRCUITS ARE TO BE DETERMINED ON SITE BASED ON AVAILABILITY. EXISTING CIRCUITRY SHALL BE VERIFIED FOR CONTINUITY AND CODE COMPLIANCE ON SITE BY THE GENERAL CONTRACTOR PRIOR TO COMMENCING NEW WORK. VERIFY THAT NOT MORE THAN SIX DUPLEX RECEPTACLES ARE CONNECTED TO ANY ONE CIRCUIT.

26. CONTRACTOR TO VERIFY AND MAKE NECESSARY ADJUSTMENTS TO ENSURE THAT LOADING ON EACH PHASE IS BALANCED. (UNBALANCED LOAD SHALL BE LESS THAN 10 %). PROVIDE A TYPED CIRCUIT DIRECTORY IN EACH PANEL.

27. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AS APPLICABLE. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED

28. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ARCHITECT AS APPLICABLE FOR REVIEW.

29. ALTERNATIVES TO THE MATERIALS SPECIFIED HEREIN AND/OR ON THE DRAWING MAY BE SUBMITTED SEPARATELY SHOWING ANY CHANGE TO THE BASE CONTRACT PRICE FOR THEIR SUBSTITUTION.

30. OPERATING & MAINTENANCE INSTRUCTIONS PREPARED BY MANUFACTURERS SHALL BE PROVIDED TO CUSTOMER.

31. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.

CONT.:

1. THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF CONDUIT AND WIRING, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. ANY AND ALL DESIGN ELEMENTS, FIXTURE LOCATIONS, ETC. TO BE FIELD VERIFIED BY THE GENERAL CONTRACTOR AND THE ELECTRICIAN ON SITE.

2. THE LOCATIONS OF THE ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE THE DRAWINGS (UNLESS NOTED OTHERWISE).

3. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC. PRIOR TO BID. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DRAWINGS.

4. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH CONDUITS AND WIRING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO FABRICATION OF BEAMS.

5. ALL CONDUIT, WIRING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GC. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS, SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

6. USE ADJUSTABLE PIPE HANGERS ON SUSPENDED CONDUIT. PROVIDE HANGERS TO SUPPORT THE SYSTEMS WITHOUT SAGGING. INCLUDE HANGERS AT EACH OFFSET OR CHANGE IN DIRECTION AND AT ENDS OF BRANCHES OVER FIVE FEET IN LENGTH.

7. SLEEVES AND BOXES SHALL BE PROVIDED WHEREVER CONDUITS PASS THROUGH FLOOR, WALL AND ROOF CONSTRUCTION.

8. WHERE HORIZONTAL CONDUITS AND WIRING PASS THROUGH WALLS AND VERTICAL DUCTS AND PIPES PASS THROUGH FLOORS OR ROOFS, SEAL OFF VOID BETWEEN OPENING AND DUCT OR PIPE AND SLEEVE, WITH AN APPROVED NON-COMBUSTIBLE MATERIAL.

9. INSTALL NICKEL-PLATED FLOOR, WALL AND CEILING ESCUTCHEONS OF ADJUSTABLE TYPE ON CONDUITS PASSING THROUGH WALLS, FLOOR OR CEILING IN FINISHED AREAS.

10. FURNISH AND INSTALL ALL FOUNDATIONS, BASES AND SUPPORTS.

11. ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE G.F.I. OR G.F.I.C. PER 2023 NATIONAL ELECTRICAL CODE REQUIREMENTS.

12. FIXTURES TO BE SELECTED BY THE ARCHITECT AND OWNER.

13. ARC FAULT PROTECTION REQUIRED AT ELECTRICAL OPENINGS.

14. ALL LIGHT SWITCHES TO BE AT 48"-52" TO BTTM. (50"-54" O.C.) UNLESS OTHERWISE NOTED.

15. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL AND STATE CODES AND STANDARDS. SPECIFICALLY THE 2023 NEC.

16. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.

17. PROVIDE RECORD DRAWINGS TO ENGINEER. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS , ALTERATIONS, REROUTING, ETC.

18. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION.

19. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUCTOR AND WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90 PERCENT COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.

20. FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED AND SOURCED.

21. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.

22. ALUMINUM WIRE AND CABLE IN SIZES @#1/0 AND LARGER MAY BE SUBSTITUTED FOR COPPER ON SERVICES AND FEEDERS IF AMPACITY IS EQUAL TO OR GREATER THAN COPPER AND VOLTAGE DROP IS EQUAL TO OR LESS THAN COPPER AND SHALL BE TERMINATED AT SWITCHES, LUGS, CIRCUIT BREAKERS, ETC., WITH MAC-ADAPT SERIES "MPT" MACHINE COMPRESSION ADAPTERS OR EQUAL.

23. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.



N

LOCATION MAP

ABBREVIATIONS

ACT - ACOUSTIC CEILING TILE
AD - AREA DRAIN
AFF - ABOVE FINISHED FLOOR
ALUM - ALUMINUM
ANOD - ANODIZED
BSMT - BASEMENT
BYND - BEYOND
BOT - BOTTOM
CIP - CAST IN PLACE
CHNL - CHANNEL
CJ - CONTROL JOINT
CLG - CEILING
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
COMPR - COMPRESSIBLE
CONC - CONCRETE
CONT - CONTINUOUS
CPT - CARPET
CT - CERAMIC TILE
CTYD - COURTYARD
DBL - DOUBLE
DEMO - DEMOLISH OR DEMOLITION

DIA - DIAMETER
DIM - DIMENSION
DIMS- DIMENSIONS
DN - DOWN
DR - DOOR
DWG - DRAWING
EA - EACH
EJ - EXPANSION JOINT
EL - ELEVATION
ELEC - ELECTRICAL
ELEV - ELEVATOR OR ELEVATION
EP - ELECTRIC PANEL
EPDM - ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)
EQ - EQUAL
EXIST - EXISTING
EXP JT - EXPANSION JOINT
EXT - EXTERIOR
FD - FLOOR DRAIN OR FIRE DEPT. CONNECTION
FEC - FIRE EXTINGUISHER CABINET
FIXT - FIXTURE
FLR - FLOOR
FM - FILLED METAL
FO - FACE OF
FND - FOUNDATION
GA - GAUGE
GALV - GALVANIZED
GWB - GYPSUM WALL BOARD
HC - HOLLOW CORE
HI - HIGH
HM - HOLLOW METAL
HP - HIGH POINT
HR - HOUR
HVAC - HEATING, VENTILATING, AND AIR CONDITIONING
ILO - IN LIEU OF
INSUL - INSULATED OR INSULATION
INT - INTERIOR
LO - LOW
MAX - MAXIMUM
MO - MASONRY OPENING
MECH - MECHANICAL
MEMBR - MEMBRANE
MIN - MINIMUM
MRGWB - MOISTURE-RESISTANT GYPSUM WALL BOARD
MTL - METAL
NIC - NOT IN CONTACT
NO - NUMBER
NOM - NOMINAL
OC - ON CENTER
OH - OVERHANG OR OPPOSITE HAND
OPP - OPPOSITE OR OPPOSITE HAND
OZ - OUNCE
PCC - PRE CAST CONCRETE
PLUMB - PLUMBING
PL YD - PLYWOOD
PT - PRESSURE TREATED
PNT - PAINT OR PAINTED
PVC - POLYVINYL CHLORIDE
RBR - RUBBER
RCP - REFLECTED CEILING PLAN
RD - ROOF DRAIN
REQD - REQUIRED
RM - ROOM
SIM - SIMILAR
SPEC - SPECIFIED OR SPECIFICATION
SPK - SPRINKLER OR SPEAKER
SSTL - STAINLESS STEEL
STC - SOUND TRANSMISSION COEFFICIENT
STL - STEEL
STRUCT - STRUCTURE OR STRUCTURAL
T&G - TONGUE AND GROOVE
TELE - TELEPHONE
TME - TO MATCH EXISTING
TO - TOP OF
TOC - TOP OF CONCRETE
TOS - TOP OF STEEL
T/D - TELEPHONE/DATA
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
U/S - UNDERSIDE
VIF - VERIFY IN FIELD
VP - VISION PANEL
W/ - WITH
WD - WOOD

2D SYMBOL	DESCRIPTION
EF	EXHAUST
S 3	3-WAY DIMMER
S 3	3-WAY SWITCH
R	DOUBLE RECESSED TUBE LIGHT 48W24D
	DUPLEX
	DUPLEX FLOOR MOUNTED
EP	ELECTRICAL PANEL - RECESSED
	EXIT SIGNANGE
GFCI	GFCI
S OCC	OCCUPANCY SENSOR SWITCH
R	DOUBLE RECESSED TUBE LIGHT 48W24D
S	SINGLE POLE SWITCH
SD	SMOKE DETECTORS
S T	TIMER SWITCH

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

SHEET SCHEDULE

SHEET NUMBER	SHEET NAME
E0.0	COVER SHEET & BUILDING NOTES
E0.1	LOT UTILITIES
E1.0	PROPOSED POWER PLAN
E2.0	PROPOSED REFLECTED CEILING PLAN
E3.0	ELECTRICAL NOTES , SCHEDULES , ONE LINE DIAGRAM

DESIGN CRITERIA & CONDITIONS

PROJECT CITY: GREELEY
PROJECT COUNTY: WELD
PROJECT ELEVATION: 4710 FT. ABOVE SEA LEVEL
ZONING DISTRICT: C-H

APPLICABLE CODES:
- IBC-2021 INTERNATIONAL BUILDING CODE
- IECC-2021 INTERNATIONAL ENERGY CONSERVATION CODE
- IMC-2021 INTERNATIONAL MECHANICAL CODE
- IPC-2021 INTERNATIONAL PLUMBING CODE
- NEC-2023 NATIONAL ELECTRICAL CODE
- IFGC-2021 INTERNATIONAL FUEL GAS CODE

PROJECT SCOPE

SCOPE OF WORK INCLUDES MODIFICATIONS TO EXISTING STRUCTURE WITH DEMOLITION OF SELECTED WALLS AND CREATION OF NEW OPENINGS, RELOCATION OF ADA-COMPLIANT BATHROOM AND SINKS FOR NEW USE, REMODELING OF EXISTING RESTAURANT SPACE INTO NEW ICE CREAM SHOP, AND INSTALLATION OF NEW ELECTRICAL SYSTEMS WITH COMPLETE MEP (MECHANICAL, ELECTRICAL, PLUMBING) UPGRADES FOR THE REMODEL.

PROJECT DATA

EXISTING:

BUILDING HEIGHT:
21' HIGHEST RIDGE (+/-) FROM TERRAIN

CONSTRUCTION TYPE:
III-B

OCCUPANCY TYPE:
BUSINESS B

FIRE PROTECTION:
-

NUMBER OF STORIES:
1

EXISTING STORIES (ABOVE GROUND)
1

GAS: YES

SEWER: PUBLIC SEWER

WATER: PUBLIC WATER

COOLING: CENTRAL AIR

HEATING: FORCED AIR

EXISTING FLOOR AREA: 1800 S.F APPROX.

PROJECT DIRECTORY

DRAWN BY: ESDENVER
CHECKED BY: D.R

REVISIONS:

No.	DESCRIPTION	DATE
1		
2		
3		
4		

ISSUE RECORD:

No.	DESCRIPTION	DATE

SCALE:

SHEET CONTENTS:

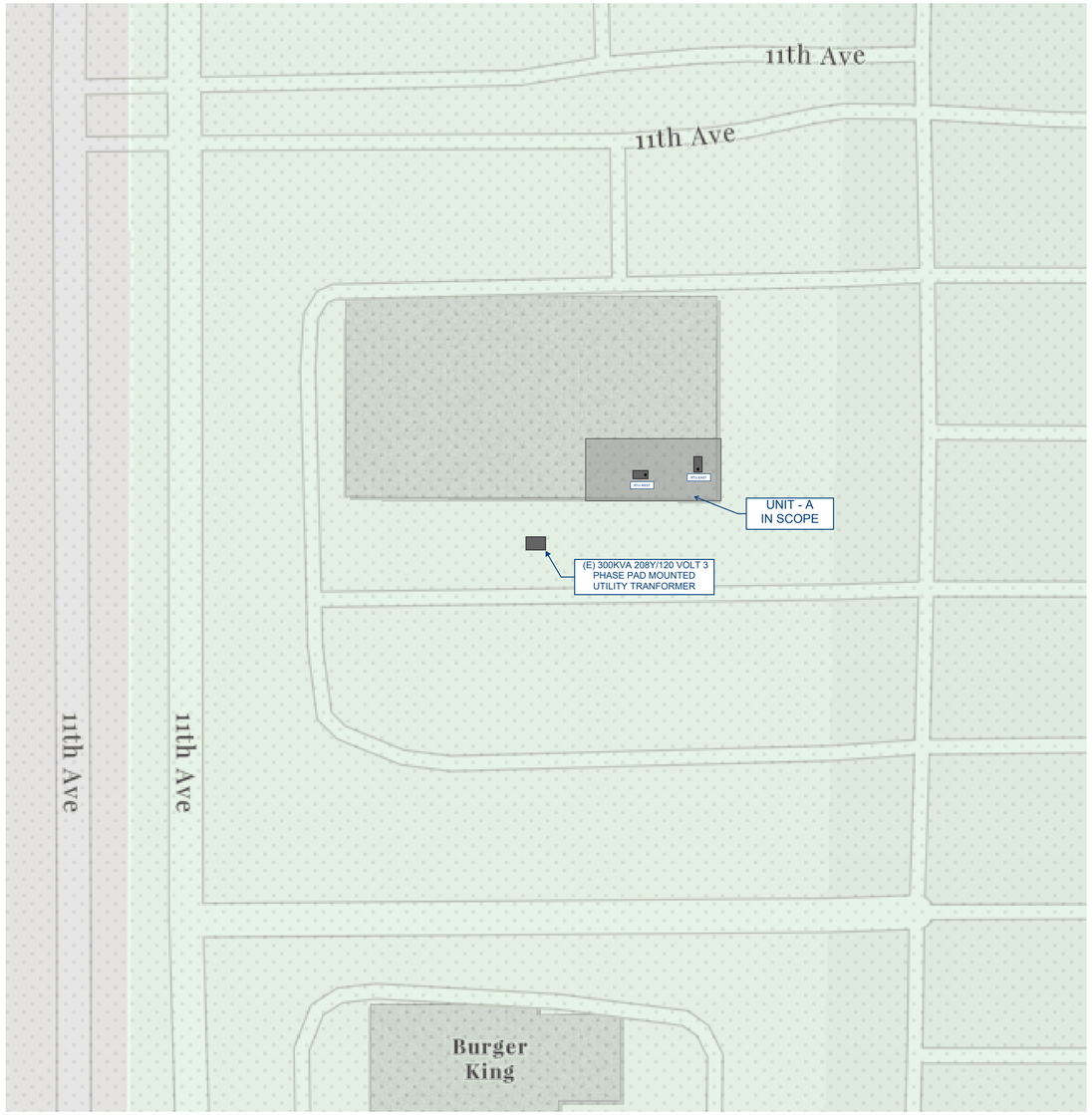
PROJECT NO.: 10668
DATE: 12/22/2025

DRAWING NO.: E0.0

ENGINEERS NOTE:

1. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.
2. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2023 CODE.
3. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.
4. ALL ELECTRICAL LAYOUTS ARE SCHEMATIC IN NATURE
5. SERVICE DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION
6. SERVICE DISCONNECT MEANS SHALL NOT BE INSTALLED IN BATHROOMS
7. ALL SERVICES SHALL MEET OR EXCEED THE 2023 NEC CODES AND REQS.

FOR UTILITIES REFERENCE ONLY - REFER TO OFFICIAL SITE SURVEY AND FIELD VERIFY ALL UTILITIES



0 LOT UTILITIES

SCALE: NTS

DRAWN BY: ESDENVER

CHECKED BY: D.R

REVISIONS:

No.	DESCRIPTION	DATE

ISSUE RECORD:

No.	DESCRIPTION	DATE

SCALE:

SHEET CONTENTS:

PROJECT NO.: 10668

DATE: 12/22/2025

DRAWING NO.: E0.1

ELECTRICAL LAYOUT NOTES

1. PROVIDE 120 VOLT SINGLE PHASE RECEPTACLE GFCI OUTLET TO EXISTING MERCHANDISE REACH IN REFRIGERATOR AT PREP AREA.

2. PROVIDE 120 VOLT SINGLE PHASE RECEPTACLE GFCI OUTLET AT FREEZERS AT PREP AREA.

3. PROVIDE 120 VOLT SINGLE PHASE RECEPTACLE GFCI OUTLET TO NEW ICE MACHINE.

4. PROVIDE 120 VOLT, SINGLE PHASE RECEPTACLE TO GAS WATER HEATER LOCATION. G.C TO F.V FINAL LOCATION.

5. PROVIDE 120 VOLT SINGLE PHASE RECEPTACLE FOR FREEZERS AT SHOWCASE AREA .

6. PROVIDE 120 VOLT SINGLE PHASE RECEPTACLE FOR DELI CASE AT SHOWCASE AREA .

7.EXISTING 3PHASE 208Y/120V 225 AMP ELECTRICAL PANEL TO REMAIN.

8. EXISTING RTU'S TO REMAIN

ENGINEERS NOTE:

1. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.
2. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2023 CODE.
3. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.
4. ALL ELECTRICAL LAYOUTS ARE SCHEMATIC IN NATURE
5. SERVICE DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION
6. SERVICE DISCONNECT MEANS SHALL NOT BE INSTALLED IN BATHROOMS
7. ALL SERVICES SHALL MEET OR EXCEED THE 2023 NEC CODES AND REQS.

ARC-FAULT AND GROUND-FAULT PROTECTION NOTES (COMMERCIAL – NEC 2023)

AFCI PROTECTION IS REQUIRED ONLY WHERE SPECIFICALLY MANDATED BY LOCAL AHJ FOR COMMERCIAL OCCUPANCIES. PER NEC 210.12(C), AFCI PROTECTION SHALL BE PROVIDED FOR BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES LOCATED IN AREAS IDENTIFIED AS "DWELLING UNITS." WHERE THIS PROJECT IS A COMMERCIAL TENANT SPACE (ICE CREAM SHOP), STANDARD AFCI REQUIREMENTS FOR DWELLING UNITS DO NOT APPLY.

GFCI PROTECTION IS REQUIRED FOR ALL 125-VOLT THROUGH 250-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES LOCATED IN THE AREAS COVERED BY NEC 210.8(B), INCLUDING BUT NOT LIMITED TO:
COMMERCIAL KITCHENS (REGARDLESS OF SINK PROXIMITY),
FOOD PREP AREAS,
CLEANUP AREAS,
RESTROOMS,
WITHIN 6 FEET OF ANY SINK OR WATER SOURCE,
LAUNDRY AREAS, AND
DAMP OR WET LOCATIONS.

ALL ICE CREAM FREEZER, DELI CASE, REFRIGERATOR, PREP COUNTER, ICE MACHINE, AND FRONT COUNTER RECEPTACLES SHALL BE 20A, 125V, GFCI PROTECTED PER NEC 210.8(B)(2) AND (B)(3).

AFCI PROTECTION NOT REQUIRED FOR BRANCH CIRCUITS IN THIS TENANT SPACE EXCEPT IF DIRECTED BY AHJ OR IF CIRCUITING PASSES THROUGH AREAS CLASSIFIED AS DWELLING-TYPE OCCUPANCY.

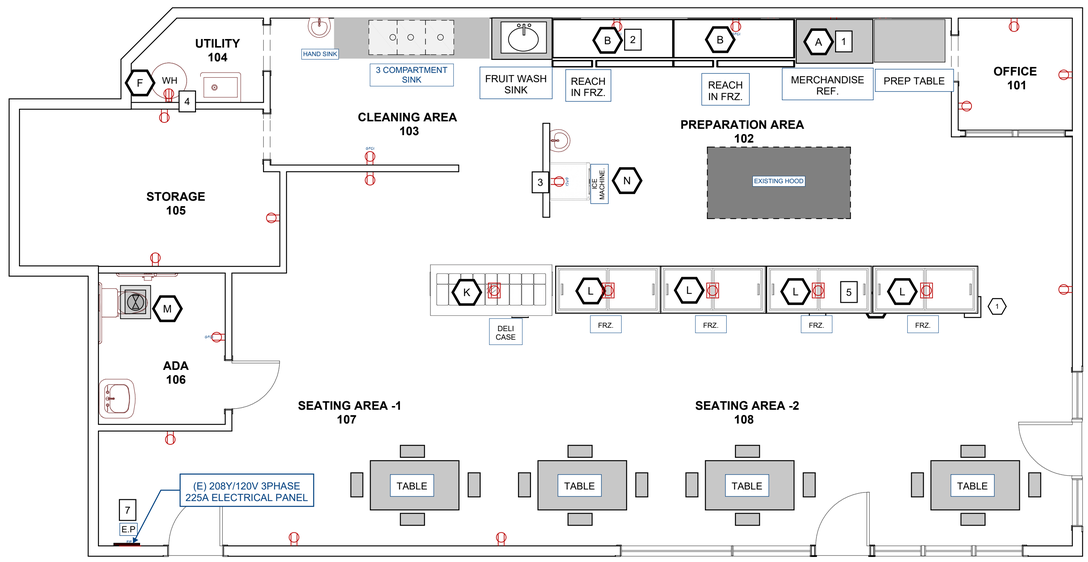
GENERAL LIGHTING AND NON-KITCHEN RECEPTACLES SHALL BE STANDARD 20A/1P CIRCUITS UNLESS SUBJECT TO GFCI REQUIREMENTS AS NOTED ABOVE.

HVAC EQUIPMENT BRANCH CIRCUITS SHALL BE SIZED AND PROTECTED PER NEC 440 AND ARE NOT REQUIRED TO BE AFCI OR GFCI PROTECTED UNLESS OTHERWISE SPECIFIED BY EQUIPMENT MANUFACTURER.

WHERE REQUIRED BY LOCAL JURISDICTION, GFCI PROTECTION MAY BE PROVIDED BY GFCI-TYPE BREAKER OR BY GFCI DEVICE AT POINT OF USE. CONTRACTOR SHALL VERIFY LOCAL AHJ REQUIREMENTS PRIOR TO INSTALLATION.

EXCEPTION: FIRE ALARM SYSTEM CIRCUITS, IF PRESENT, SHALL NOT BE SUPPLIED FROM AFCI OR GFCI PROTECTED BRANCH CIRCUITS PER NEC 760.41(B) AND 760.121(B). SUCH CIRCUITS SHALL BE PROTECTED IN METAL RACEWAY OR TYPE MC/AC CABLE.

ALL WORK TO COMPLY WITH NEC 2023, ARTICLE 210, AND ALL LOCAL AMENDMENTS.



REFRGERATOR APPLIANCES SCHEDULE							
	LABEL	DESCRPTION	Quantity	MAKE AND MODEL	CONDITION	ELECTRICAL DATA	COMMENT
	A	Reach-In Refrigerator - MERCHANDISER	1	TRUE / GDM-45	NEW	115V / 1Ph / 8.5A	Standard NEMA 5-15P Plug.
	B	3 Door Reach-In Freezer	2	Koolmore/RIF-3D-SS	NEW	115V / 1Ph / 14.4A	Requires NEMA 5-20R Rec.
	K	Deli Case	1	Koolmore / EDC-82-HC	NEW	115V / 1Ph / 15A	Standard NEMA 5-15P Plug.
	L	DISPLAY FREEZER	4	SIGNATURE/ ERI-560DC	NEW	115V / 1Ph / 15A	NEMA 5-15P
	N	ICE MACHINE	1	Atosa YR450-AP-161	NEW	115V / 1Ph / 15A	Standard NEMA 5-15P Plug.

ELECTRICAL EQUIPMENT SCHEDULE							
	LABEL	DESCRPTION	Quantity	MAKE AND MODEL	CONDITION	ELECTRICAL DATA	COMMENT
		RTU EAST	1	LENNOX KGA072S4BH3Y	EXISTING	230V, 3Ø, 50A DEDICATED HACR BREAKER	W/FUSE DISCONNECT
		RTU WEST	1	LENNOX TGA048B2DS1Y	EXISTING	230V, 3Ø, 40A DEDICATED HACR BREAKER	W/FUSE DISCONNECT
WH	F	GAS WATER HEATER	1	TBD	EXISTING	120V 1Ø 15A, DEDICATED GFCI	
	M	NEW ADA EXHAUST	1	BROAN BENL5	EXISTING RELOCATED	120V 1Ø 15A 60HZ	

1 PROPOSED POWER PLAN

SCALE: 1/4" = 1'-0" FT.

CLAUDIA ACOS

DRAWN BY: ESDENVER

CHECKED BY: I D.R

REVISIONS:

No.	DESCRIPTION	DATE

ISSUE RECORD:

No.	DESCRIPTION	DATE

SCALE:

SHEET CONTENTS:

PROJECT NO.: 10668

DATE: 12/22/2025

DRAWING NO.: E1.0

ELECTRICAL RCP NOTES

1. ALL LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LED TYPE AND SHALL COMPLY WITH THE REQUIREMENTS OF IECC C405 FOR COMMERCIAL LIGHTING SYSTEMS.

2. LIGHTING CONTROLS SHALL COMPLY WITH IECC C405.2 PROVIDING AUTOMATIC SHUTOFF VIA OCCUPANCY SENSORS, TIME-BASED SCHEDULING, OR EQUIVALENT CONTROL METHOD AS APPLICABLE.

3. OCCUPANCY OR VACANCY SENSORS SHALL BE PROVIDED IN THE FOLLOWING ROOMS PER IECC C405.2.1.2 AND NEC 210.70: TOILET ROOM, OFFICE, STORAGE ROOM, AND EMPLOYEE-ONLY SMALL ROOMS. SENSORS SHALL BE MANUAL-ON OR AUTOMATIC-ON AS PERMITTED BY IECC FOR COMMERCIAL APPLICATIONS.

4. LIGHTING IN KITCHEN AND FOOD PREPARATION AREAS SHALL BE CONTROLLED BY EITHER A WALL-MOUNTED LIGHTING SWITCH WITH AUTOMATIC SHUTOFF VIA DIGITAL TIMER OR BY AN OCCUPANCY SENSOR IF ACCEPTABLE TO OWNER AND OPERATIONAL REQUIREMENTS.

5. BATHROOM LIGHTING SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR WITH MANUAL OVERRIDE IN ACCORDANCE WITH IECC.

6. FRONT SALES AND CUSTOMER AREA LIGHTING SHALL BE CONTROLLED BY A MANUAL WALL SWITCH LOCATED NEAR THE MAIN ENTRANCE. DAYLIGHT-RESPONSIVE CONTROLS ARE REQUIRED ONLY IF LIGHTING POWER IN THE DAYLIGHT ZONE EXCEEDS 150 WATTS PER IECC C405.2.3.

7. PROVIDE UL 924 COMPLIANT EMERGENCY EGRESS LIGHTING AND EXIT SIGNS IN ACCORDANCE WITH IBC, NEC 700.12, AND LOCAL REQUIREMENTS.

8. EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED BRANCH-CIRCUIT AHEAD OF LOCAL LIGHTING SWITCHES AND SHALL PROVIDE A MINIMUM OF 90 MINUTES OF ILLUMINATION UPON POWER FAILURE.

9. PROVIDE MINIMUM ILLUMINATION OF 1 FOOT-CANDLE ALONG EGRESS PATHS AND 0.1 FOOT-CANDLE AT FLOOR LEVEL UNDER EMERGENCY LIGHTING CONDITIONS.

10. SMOKE DETECTOR LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. FINAL LOCATIONS, TYPES, AND WIRING ARRANGEMENTS SHALL BE DETERMINED BY THE FIRE ALARM CONTRACTOR IN COMPLIANCE WITH NFPA 72 AND LOCAL AHJ REQUIREMENTS.

11. ALL PENETRATIONS IN FIRE-RATED CEILING ASSEMBLIES SHALL BE SEALED TO MAINTAIN REQUIRED FIRE-RESISTANCE RATINGS.

12. COORDINATE PLACEMENT OF LIGHTING FIXTURES, EMERGENCY UNITS, FIRE ALARM DEVICES, CEILING DIFFUSERS, HOOD EXHAUST EQUIPMENT, SPRINKLERS, AND STRUCTURAL ELEMENTS.

13. LIGHTING INSTALLED IN FOOD PREPARATION OR WET AREAS SHALL BE DAMP-RATED. FIXTURES INSTALLED DIRECTLY ABOVE SINKS OR AREAS SUBJECT TO WASH-DOWN SHALL BE WET-RATED.

14. WHERE DIMMING IS PROVIDED, DIMMER CONTROLS SHALL BE COMPATIBLE WITH LED FIXTURES AND SHALL BE UL LISTED.

15. LIGHTING SWITCHING ZONES SHALL BE CLEARLY IDENTIFIED AND SHALL CORRESPOND TO THE LIGHTING CONTROL NARRATIVE AND SWITCHING SYMBOLS SHOWN ON THE RCP.

16. WHERE REQUIRED BY IECC, RESTROOM AND DISH AREA EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTING CONTROLS OR OCCUPANCY SENSOR ACTIVATION.

17. ALL ELECTRICAL WORK SHALL COMPLY WITH NFPA 70 (2023 NEC), IECC 2021, IBC 2021, IMC 2021, AND ALL APPLICABLE LOCAL CODES AND AMENDMENTS.

18. ALL CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE INSTALLED FLUSH AND SYMMETRICALLY ALIGNED UNLESS OTHERWISE NOTED.

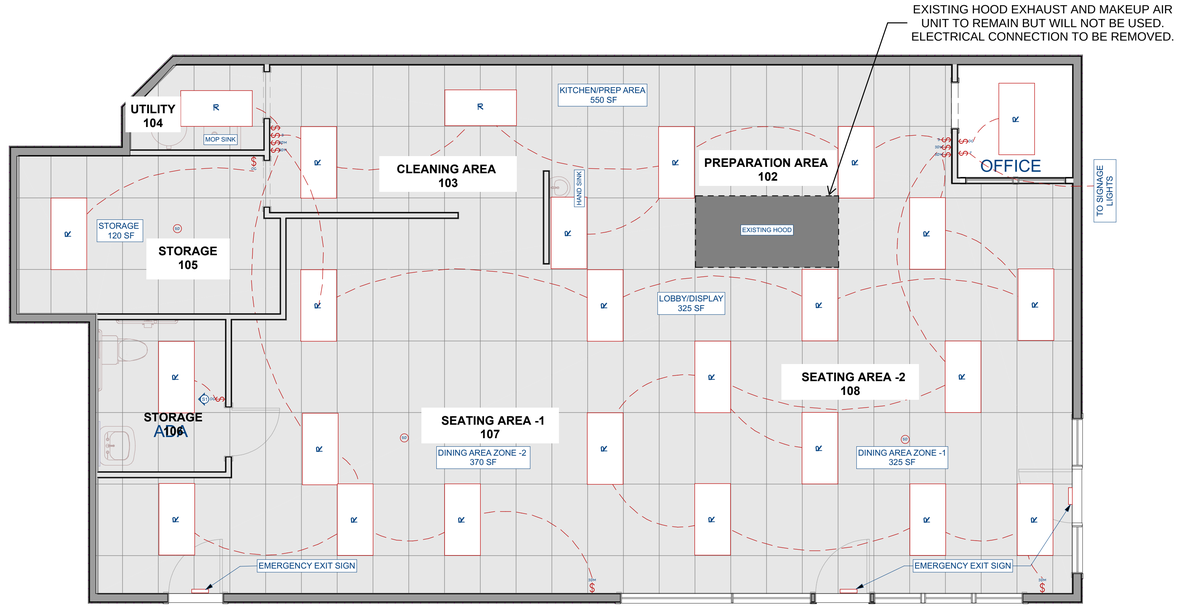
19. LIGHTING FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING GRID IN ACCORDANCE WITH NEC 410.36.

20. CONTRACTOR SHALL VERIFY FINAL LIGHTING CONTROL TYPES, INCLUDING DIMMERS, OCCUPANCY SENSORS, AND TIMERS, WITH OWNER AND LOCAL AHJ PRIOR TO INSTALLATION. PROVIDE CONTROL DOCUMENTATION IF REQUESTED BY THE AHJ.

21. MANUFACTURER'S LIGHTING CONTROL DOCUMENTATION SHALL BE SUBMITTED TO THE CITY IF REQUESTED DURING PERMIT OR INSPECTION REVIEW.

ENGINEERS NOTE:

1. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.
2. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2023 CODE.
3. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.
4. ALL ELECTRICAL LAYOUTS ARE SCHEMATIC IN NATURE
5. SERVICE DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION
6. SERVICE DISCONNECT MEANS SHALL NOT BE INSTALLED IN BATHROOMS
7. ALL SERVICES SHALL MEET OR EXCEED THE 2023 NEC CODES AND REQS.



2 PROPOSED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" FT.

ARC-FAULT AND GROUND-FAULT PROTECTION NOTES (COMMERCIAL – NEC 2023)

AFCI PROTECTION IS REQUIRED ONLY WHERE SPECIFICALLY MANDATED BY LOCAL AHJ FOR COMMERCIAL OCCUPANCIES. PER NEC 210.12(C), AFCI PROTECTION SHALL BE PROVIDED FOR BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES LOCATED IN AREAS IDENTIFIED AS "DWELLING UNITS." WHERE THIS PROJECT IS A COMMERCIAL TENANT SPACE (ICE CREAM SHOP), STANDARD AFCI REQUIREMENTS FOR DWELLING UNITS DO NOT APPLY.

GFCI PROTECTION IS REQUIRED FOR ALL 125-VOLT THROUGH 250-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES LOCATED IN THE AREAS COVERED BY NEC 210.8(B), INCLUDING BUT NOT LIMITED TO:
COMMERCIAL KITCHENS (REGARDLESS OF SINK PROXIMITY),
FOOD PREP AREAS,
CLEANUP AREAS,
RESTROOMS,
WITHIN 6 FEET OF ANY SINK OR WATER SOURCE,
LAUNDRY AREAS, AND
DAMP OR WET LOCATIONS.

ALL ICE CREAM FREEZER, DELI CASE, REFRIGERATOR, PREP COUNTER, ICE MACHINE, AND FRONT COUNTER RECEPTACLES SHALL BE 20A, 125V, GFCI PROTECTED PER NEC 210.8(B)(2) AND (B)(3).

AFCI PROTECTION NOT REQUIRED FOR BRANCH CIRCUITS IN THIS TENANT SPACE EXCEPT IF DIRECTED BY AHJ OR IF CIRCUITING PASSES THROUGH AREAS CLASSIFIED AS DWELLING-TYPE OCCUPANCY.

GENERAL LIGHTING AND NON-KITCHEN RECEPTACLES SHALL BE STANDARD 20A/1P CIRCUITS UNLESS SUBJECT TO GFCI REQUIREMENTS AS NOTED ABOVE.

HVAC EQUIPMENT BRANCH CIRCUITS SHALL BE SIZED AND PROTECTED PER NEC 440 AND ARE NOT REQUIRED TO BE AFCI OR GFCI PROTECTED UNLESS OTHERWISE SPECIFIED BY EQUIPMENT MANUFACTURER.

WHERE REQUIRED BY LOCAL JURISDICTION, GFCI PROTECTION MAY BE PROVIDED BY GFCI-TYPE BREAKER OR BY GFCI DEVICE AT POINT OF USE. CONTRACTOR SHALL VERIFY LOCAL AHJ REQUIREMENTS PRIOR TO INSTALLATION.

EXCEPTION: FIRE ALARM SYSTEM CIRCUITS, IF PRESENT, SHALL NOT BE SUPPLIED FROM AFCI OR GFCI PROTECTED BRANCH CIRCUITS PER NEC 760.41(B) AND 760.121(B). SUCH CIRCUITS SHALL BE PROTECTED IN METAL RACEWAY OR TYPE MC/AC CABLE.

ALL WORK TO COMPLY WITH NEC 2023, ARTICLE 210, AND ALL LOCAL AMENDMENTS.

CLAUDIA ACOS

DRAWN BY: ESDENVER

CHECKED BY: D.R

REVISIONS:

No.	DESCRIPTION	DATE

ISSUE RECORD:

No.	DESCRIPTION	DATE

SCALE:

SHEET CONTENTS:

PROJECT NO.: 10668

DATE: 12/22/2025

DRAWING NO.: E2.0

Name: 2466 11TH AVE #A

Mounting Method
SURFACE ☑
FLUSH ☐

Panel Status
RELOCATED ☐
NEW ☐
EXISTING ☑

Panel Information
Volt: 208/120 Bus Rating 225 A
Phase 3 Main Breaker: MLO
Wire 4 AIC Rating: 10,000

Ckt #	New BKR	Code	Description	Load VA	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load VA	Description	Code	New BKR	Ckt #
1			COOLER COMPRESSOR	3000	20	2	•			2	20	3000	PIZZA OVEN	5		2
3					/	1		•		1	/					4
5		2	COOLER EVAP. UNIT	1800	20	1			•	2	20	3000	PIZZA OVEN	5		6
7		2	HEAT STRIP	1800	20	1	•			1	/					8
9		2	HEAT STRIP	1800	20	1		•		1	20	1500	PREP TABLE	2		10
11		2	SF-2	1800	20	1			•	1	20	1500	BEVERAGE CASE	2		12
13		2	SF-1	1800	20	1	•			1	20	300	BATHRM TIME CLOCK	2		14
15		1	COOLER LIGHTS	1200	20	1		•		1	20	1500	ROOF GFI	2		16
17		2	COMPUTER RECEPTACLES	1500	20	1			•	3	40	9000	RTU-1 - EAST	4		18
19		2	COMPUTER RECEPTACLES	1500	20	1	•			1	/					20
21		2	COMPUTER RECEPTACLES	1500	20	1		•		1	/					22
23		1	LIGHTING	1800	20	1			•	3	50	12000	RTU-2 - WEST	4		24
25		1	EXIT SIGN	500	20	1	•			1	/					26
27		1	LIGHTING	1800	20	1		•		1	/					28
29		1	PAPA JOHN SIGN	1500	20	1			•	1	20	500	TELEPHONE	2		30
31		1	AWNING LIGHTING	500	20	1	•			1	20	1500	COMPUTER RECEPTACLES	2		32
33		1	WINDOW SIGN	800	20	1		•		1	20	1500	COMPUTER RECEPTACLES	2		34
35		2	CCTV CAMERA	500	20	1			•	1	20	1500	COMPUTER RECEPTACLES	2		36
37		2	HOT BAGS	500	20	1	•			1	20	1500	RECEPTS+CUTTABLE FRIDGE	2		38
39		2	HOT BAGS	500	20	1		•		1	20	500	HOT BAGS	2		40
41		2	HOT BAGS	500	20	1			•	1	20	500	HOT BAGS	2		42

Code	Description	Load VA	Dem
1	Lighting	8100	125%
2	Rec up to 10,000	10000	100%
	Rec over 10,000	17800	50%
3	Motor		100%
	Largest Motor		125%
4	Heater	21000	100%
5	Kitchen	6000	100%
6	Other		100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	21400	VA
Ph B	22600	VA
Ph C	21900	VA
Connected	62900	VA
Code Demand	56025	VA
Code Demand	155.69	Amps

Feeder -
Feed From -

★ REVISED LOAD

A EXISTING PANEL

Name: 2466 11TH AVE #A

Date 11/5/2025

Mounting Method
SURFACE ☑
FLUSH ☐

Panel Status
RELOCATED ☐
NEW ☐
EXISTING ☑

Panel Information
Volt: 208/120 Bus Rating 225 A
Phase 3 Main Breaker: MLO
Wire 4 AIC Rating: 10,000

Ckt #	New BKR	Code	Description	Load VA	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load VA	Description	Code	New BKR	Ckt #
1		2	EXIT SIGNS	500	20	1	•			1	20	1000	POS MACHINE	2		2
3		1	OFFICE LIGHT AND RCP	1800	20	1		•		1	20	500	GAS WATER HEATER	2		4
5		2	(N) DISPLAY FREEZER	1800	20	1			•	1	20	1800	MAIN SIGNAGE LIGHTING	1		6
7		2	(N) ICE CREAM FREEZER	1800	20	1	•			1	20	1800	KITCHEN PREP OUTLETS -1	2		8
9		2	(N) ICE CREAM FREEZER	1800	20	1		•		1	20	1800	(N) R.In REFRIGERATOR - GMD 54	2		10
11		2	(N) ICE CREAM FREEZER	1800	20	1			•	1	20	1800	(N) 3 DOOR FREEZER - RIF-3D-SS	2		12
13		2	(N) DELI CASE	1500	20	1	•			1	20	1800	(N) 3 DOOR FREEZER - RIF-3D-SS	2		14
15		1	ADA LTG AND EXHAUST	1500	20	1		•		1	20	1800	(N) ICE MACHINE ATOSA - YR	2		16
17		1	STORAGE ROOM LIGHT AND RCP	1000	20	1			•	3	40	9000	(E) RTU EAST	4		18
19		2	KITCHEN PREP OUTLETS -2	1800	20	1	•			1	/					20
21		1	DINING AREA ZONE 1 LTG	1200	20	1		•		1	/					22
23		1	DINING AREA ZONE 2 LTG	1200	20	1			•	3	50	12000	(E) RTU WEST	4		24
25		1	LOBBY AREA LTG	1200	20	1	•			1	/					26
27		1	OTHER SMALL SIGNAGES	800	20	1		•		1	/					28
29		1	KITCHEN AND PREP LTG	1500	20	1			•	1		500	SMOKE DETECTORS	2		30
31		2	CCTV	500	20	1	•			1			Spare			32
33			Spare			1		•		1			Spare			34
35			Spare			1			•	1			Spare			36
37			Spare			1	•			1			Spare			38
39			Spare			1		•		1			Spare			40
41			Spare			1			•	1			Spare			42

Code	Description	Load VA	Dem
1	Lighting	12000	125%
2	Rec up to 10,000	10000	100%
	Rec over 10,000	12500	50%
3	Motor		100%
	Largest Motor		125%
4	Heater	21000	100%
5	Kitchen		100%
6	Other		100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	18900	VA
Ph B	18200	VA
Ph C	18400	VA
Connected	55500	VA
Code Demand	52250	VA
Code Demand	145.20	Amps

Feeder -
Feed From -

PROPOSED PANEL LOAD COMPLIES WITH NEC REQUIREMENTS AND DOES NOT SURPASS EXISTING PANEL DEMAND.

B PROPOSED PANEL

ELECTRICAL SCHEDULE		
2D SYMBOL	DESCRIPTION	COMMENTS
	EXHAUST	EXHAUST FAN (50CFM MIN.) IN ADA RESTROOM SHALL BE INTERLOCKED WITH LIGHTING OCCUPANCY SENSOR OR CONTROL SWITCH PER IECC. FAN SHALL CONTINUE OPERATION FOR MINIMUM 20 MINUTES AFTER LIGHTS CYCLE OFF.
	3-WAY DIMMER	WHERE DIMMING CONTROL IS PROVIDED IN MULTIPLE LOCATIONS, INSTALL LISTED 3-WAY DIMMER SWITCHES COMPATIBLE WITH LED LIGHTING FIXTURES. DIMMERS SHALL BE UL LISTED AND RATED FOR THE TOTAL CONNECTED LOAD. INSTALL PER MANUFACTURER'S INSTRUCTIONS. DIMMING CONTROL SHALL NOT AFFECT EMERGENCY OR EXIT LIGHTING CIRCUITS.
	3-WAY SWITCH	
	DOUBLE RECESSED TUBE LIGHT 48W24D	DAMP RATED FIXTURE ABOVE 3 COMP. SINK
	DUPLEX	120V RECEPTACLE OUTLET
	DUPLEX FLOOR MOUNTED	
	ELECTRICAL PANEL - RECESSED	
	EXIT SIGNANGE	EXIT SIGN CIRCUITS SHALL BE FED FROM THE UNSWITCHED HOT CONDUCTOR OF THE LOCAL LIGHTING CIRCUIT TO ENSURE CONTINUOUS POWER. EMERGENCY BATTERY BACKUP SHALL PROVIDE ILLUMINATION FOR A MINIMUM OF 90 MINUTES UPON LOSS OF NORMAL POWER PER NEC 700.12.
	GFCI	110V GFCI OUTLET
	OCCUPANCY SENSOR SWITCH	OCCUPANCY OR VACANCY SENSOR SHALL CONTROL LIGHTING CIRCUIT IN RESTROOM, OFFICE, AND STORAGE ROOM AREAS PER IECC C405.2.1.2. SENSOR SHALL TURN LIGHTS OFF WITHIN 20 MINUTES OF SPACE BEING VACATED.
	DOUBLE RECESSED TUBE LIGHT 48W24D	ALL LIGHTING FIXTURES SHALL BE LED TYPE, HIGH EFFICIENCY, AND INSTALLED PER IECC C405 REQUIREMENTS. PROVIDE SEPARATE LIGHTING CIRCUITS PER ROOM OR ZONE AS INDICATED ON THE REFLECTED CEILING PLAN.
	SINGLE POLE SWITCH	
	SMOKE DETECTORS	SMOKE DETECTORS SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS, WIRING, AND CIRCUITING SHALL BE PER FIRE ALARM CONTRACTOR IN ACCORDANCE WITH NFPA 72 AND LOCAL CODE REQUIREMENTS. POWER SHALL NOT BE SUPPLIED FROM GFCI OR AFCI PROTECTED CIRCUITS.
	TIMER SWITCH	PHOTOCELL TIMER SWITCH FOR EXTERIOR SIGNAGE. SHALL BE DIGITAL TYPE WITH 10-HOUR MINIMUM BATTERY OR MEMORY RETENTION AFTER POWER LOSS. MANUAL OVERRIDE SHALL BE PROVIDED PER IECC C405.2.2.1.

ENGINEERS NOTE:

1. G.C. AND ELECTRICAL TRADES AND INSTALLERS TO WALK SPACE AND CONSULT HOME OWNERS FOR SPECIFIC ELECTRICAL LAYOUT NEEDS PRIOR TO INSTALLATION OR ORDERING OF ELECTRICAL COMPONENTS.

2. COORDINATE W/OTHER TRADES AS REQ.

3. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.

4. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2023 CODE.

5. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.

6. ALL ELECTRICAL LAYOUTS ARE SCHEMATIC IN NATURE

7. ELECTRICIAN TO REVIEW ALL SCHEDULES FOR ELECTRICAL COMPONENTS AND ADJUST ACCORDINGLY TO ON SITE CONDITIONS AND NEEDS, REQS. AND FINAL COUNT OF ALL LIGHTING FIXTURE BOXES, SWITCHES, RECEPTACLES, ETC. NEEDED FOR THE HOME.

3 ELECTRICAL NOTES , SCHEDULES

NTS:

DRAWN BY: ESDENVER
CHECKED BY: D.R

REVISIONS:

No.	DESCRIPTION	DATE

ISSUE RECORD:

No.	DESCRIPTION	DATE

SCALE:

SHEET CONTENTS:

PROJECT NO.: 10668
DATE: 12/22/2025

DRAWING NO.: E3.0