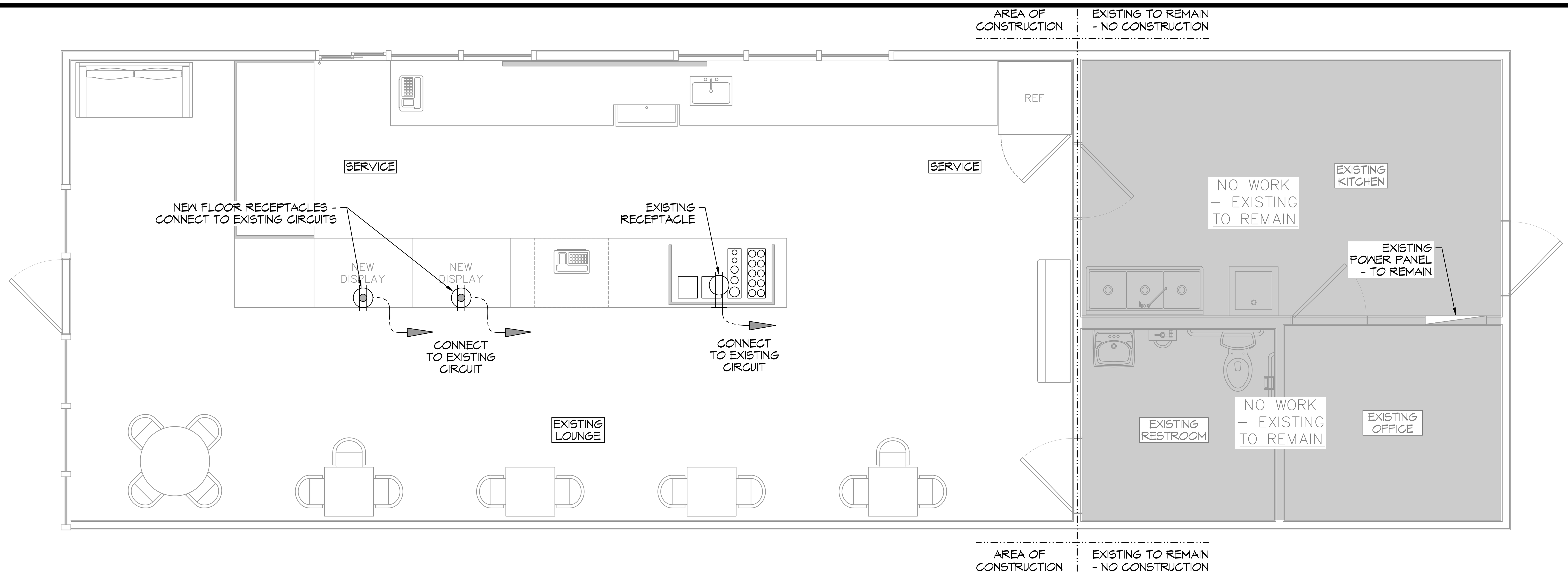
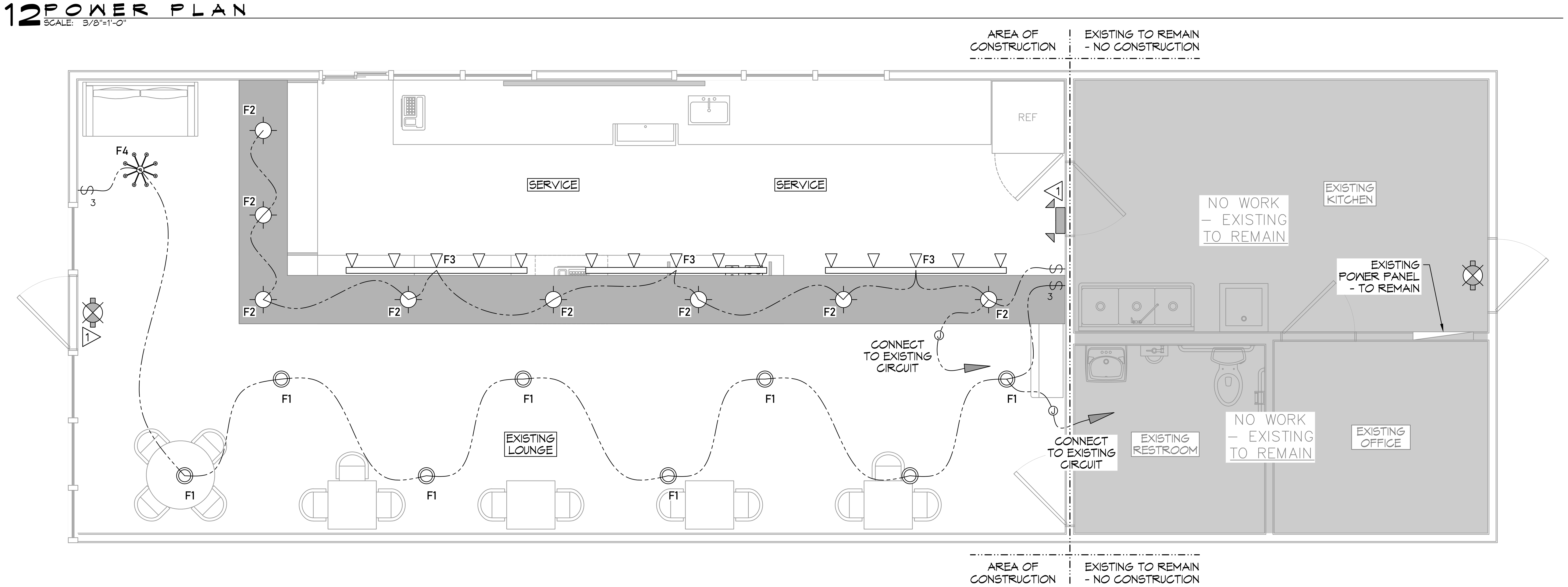


12 POWER PLAN
SCALE: 3/8"=1'-0"



13 LIGHTING PLAN
SCALE: 3/8"=1'-0"

KEYED NOTES

1	PROVIDE CONNECTION TO UN-SWITCHED HOT OF LIGHTING CIRCUIT & SHALL HAVE 90 MIN. EMERGENCY BATTERY BACKUP.

LIGHTING LEGEND

F1	NEW 6" LED RECESSED CAN LIGHT
F2	NEW DECORATIVE PENDANT LIGHT
F3	NEW TRACK LIGHT
F4	EXISTING DECORATIVE LIGHT - TO REMAIN
	EXISTING EXIT LIGHT - TO REMAIN
	EXISTING EMERGENCY LIGHT - TO REMAIN

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, & LOCAL CODES, RULES, REGULATIONS, & REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING & ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT & ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT & ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS & THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE & LOCATION OF DEVICES &/OR FIXTURES.
4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS & HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
5. ALL CONDUCTORS SHALL BE A MIN OF #12 AWG UNLESS NOTED OTHERWISE.
6. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG & 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
10. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY & THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
11. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, & 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT & LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON & SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS & CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

GENERAL POWER NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE & ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE & CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW & SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE & GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES & TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE & FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES & WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY & INCLUDE IN HIS BID ALL CHARGES & FEES INCURRED IN MODIFICATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY & THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS & DETAILS. IF ANY WORK IS INSTALLED & IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS & DETAILS.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE & THE NATIONAL ELECTRICAL CODE.
10. MIN CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MIN SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, 3/4" SCHEDULE 80 PVC FOR EXTERIOR USE ABOVE GRADE & 1" SCHEDULE 40 PVC FOR EXTERIOR USE BELOW GRADE, BURIED A MIN OF 18" FOR NON-VEHICULAR TRAFFIC AREAS & 36" IN VEHICULAR TRAFFIC AREAS. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION & ALL ASSEMBLY OCCUPANCIES. USE NMC IN WOOD CONSTRUCTION. 6' LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, & EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING, CIRCUIT BREAKERS & OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
12. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG & 277V RUNS LONGER THAN 150' SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, & AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN THE KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
14. BONDING & GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION & ALARM COMPANY TO DESIGN & INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL & THE FIRE DISTRICT.
18. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
19. ALL ELECTRICAL, MECHANICAL & PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES & HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
21. ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL PROVIDE AN EFFECTIVE GROUND-FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR A MEDICAL GRADE MC CABLE (NEC ART. 517.13(A & B)).

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#	DESCRIPTION	DATE

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JOB No:	2461	DATE:	10-18-2022
DRAWN BY:	TNT	CHECKED BY:	CKD

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SHEET TITLE: POWER AND LIGHTING PLAN

DRAWING NUMBER: E101

SHEET No: 8 of 8