

SPECIFICATIONS

SCOPE

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:

- ELECTRICAL PANELS, CONTROLS, DISCONNECTS, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT AS INDICATED.

CODES, REGULATIONS, AND STANDARDS

THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE AND WITH THE REQUIREMENTS OF THE POWER AND TELEPHONE COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.

THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

- THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS.
- THE NATIONAL ELECTRICAL CODE AND LOCAL AMENDMENTS, LATEST ADOPTED EDITIONS.
- UNDERWRITER LABORATORIES INCORPORATED STANDARDS.
- AMERICAN NATIONAL STANDARDS INSTITUTE.
- THE INTERNATIONAL BUILDING CODE, LATEST ADOPTED EDITION.

INSPECTION OF SITE

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, ETC. TO BE ENCOUNTERED. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING.

STORAGE AND HANDLING OF MATERIAL

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. ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION. 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.

CLEAN-UP

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".

DRAWINGS

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 SPECIFICATION, 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.

IN ALL CASES SWITCHES CONTROLLING LIGHTING ARE TO BE LOCATED ON THE STRIKE SIDE OF DOORS. LOCATION INDICATED FOR SWITCHES AND OUTLETS ARE APPROXIMATE. OWNER MAY MAKE MINOR RELOCATIONS AT NO ADDITIONAL CHARGE.

CUTTING AND FITTING

PERFORM THE 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 MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.

COOPERATION WITH OTHER CONTRACTORS

COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE CHECKED WITH THE 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.

COORDINATE THE LOCATION OF TRENCHES AND CONDUITS FOR ELECTRIC AND TELEPHONE UTILITY SERVICES WITH THE GENERAL CONTRACTOR.

MATERIALS

ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITERS LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.

CONDUIT

RGS AND IMC MAY BE USED IN ALL AREAS. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLAB OR WALLS AND NOT SUBJECT TO DAMAGE. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH PROPERLY CEMENTED JOINTS. AC OR MC CABLE MAY BE USED FOR CONNECTION BETWEEN DEVICES IN WALLS OR ABOVE CEILINGS, AND HOME RUNS. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE 200 LB. TEST PULL CORD TO FACILITATE INSTALLATION OF WIRE IN FUTURE.

OUTLET, PULL AND JUNCTION BOXES

EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE GALVANIZED STEEL OUTLET BOX. JUNCTION 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. #180 BOXES MAY BE USED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE. ALL BOXES SHALL BE IDENTIFIED BY A PERMANENT MEANS, APPROVED BY THE JURISDICTION. SPECIFY SOURCE PANEL, BREAKER, AND SYSTEM VOLTAGE.

WIRE

UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE THWN, THHN, OR XHHW. ALL WIRING SHALL BE COPPER. EQUIVALENT ALUMINUM WIRE (8000 ALLOY) MAY BE SUBSTITUTED FOR COPPER FOR SIZES #2 AND LARGER. USE SET SCROW TYPE FITTINGS ON ALL CONNECTIONS AND RESIZE CONDUIT AS REQUIRED. THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES EQUIPMENT GROUND CONDUCTORS SHALL BE GREEN. GROUNDED CONDUCTOR SHALL BE WHITE (120V) AND GRAY (277V) AND UNGROUNDED CONDUCTORS SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR 277/480V. SYSTEM; AND BROWN (PHASE A), ORANGE (PHASE B) AND YELLOW (PHASE C) FOR 480Y/277V. SYSTEM. THE WIRE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC #100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.

WIRING DEVICES

SWITCHES: WALL SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A, 120/277 VOLTS. SINGLE POLE SWITCHES SHALL BE HUBBELL CS120I OR APPROVED EQUAL. 3-WAY SWITCHES SHALL BE HUBBELL CS320I OR APPROVED EQUAL. RECEPTACLES: SHALL BE COMMERCIAL SPECIFICATION GRADE, DUPLEX TYPE, NEMA 5-15R, 15 AMPERE, 125V, GROUNDED TYPE. OUTLETS SHALL BE HUBBELL CR15I OR APPROVED EQUAL. SPECIAL APPLICATION RECEPTACLES SHALL BE AS INDICATED ON PLANS. GFCI RECEPTACLES: SHALL BE COMMERCIAL SPECIFICATION GRADE, NEMA 5-15R, HUBBELL QF5252IA. WEATHERPROOF RECEPTACLES: SHALL BE HUBBELL WP26 WITH GFCI RECEPTACLE OUTLET OR EQUAL. DEVICE PLATES SHALL BE SMOOTH IVORY NYLON. ALL WIRING DEVICES SHALL HAVE A PROVISION, BY THE MANUFACTURER, FOR AN EQUIPMENT GROUNDING CONDUCTOR SO THAT ALL NON CURRENT CARRYING METAL IS BONDED TO THE GROUND ELECTRODE SYSTEM.

SAFETY SWITCHES

SAFETY SWITCHES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE GENERAL DUTY TYPE, 600 OR 250 VOLT, OF THE NUMBER OF POLES REQUIRED. SAFETY SWITCHES FOR AIR CONDITIONING USE SHALL BE OF THE FUSIBLE TYPE, WHERE RECOMMENDED BY EQUIPMENT MANUFACTURER. THE SWITCH SIZE SHALL BE AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE RAIN-TIGHT TYPE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE. ALL SAFETY SWITCHES SHALL HAVE A PROVISION, BY THE MANUFACTURER, FOR AN EQUIPMENT GROUNDING CONDUCTOR SO THAT ALL NON CURRENT CARRYING METAL IS BONDED. ALL SAFETY SWITCH ENCLOSURES OR COVERS SHALL BE IDENTIFIED BY A PERMANENT MEANS, APPROVED BY THE JURISDICTION. SPECIFYING SOURCE PANEL, BREAKER, AND SYSTEM VOLTAGE.

FUSES

FUSES SHALL BE OF THE TYPE, SIZE, AND RATING AS INDICATED ON THE DRAWINGS. ALL FUSES SHALL BE BY BUSBMAN MFG. COMPANY (BULD SHAWMUT). VERIFY FUSE AND SWITCH REQUIREMENTS WITH THE EQUIPMENT SUPPLIER.

PANELBOARDS

CIRCUIT BREAKER TYPE PANELBOARDS SHALL BE GENERAL ELECTRIC, SQUARE D, SIEMENS OR EQUAL WITH VOLTAGE, SIZES AND RATINGS AS INDICATED ON DRAWINGS. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANELBOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT ANY COMBINATION OF SINGLE-POLE, DOUBLE-POLE AND THREE-POLE BREAKERS MAY BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAIN TERMINALS SHALL BE OF THE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTIPOLE BREAKERS ARE NOT ACCEPTABLE.

MOTOR WIRING

ALL MOTORS SHALL BE WIRED TO CONFORM WITH MANUFACTURERS RECOMMENDATIONS AND WITH APPLICABLE CODES. FURNISH NECESSARY MATERIALS SUCH AS WIRE, CONDUIT, FITTINGS, ETC. REQUIRED BY THE SUPPLIER OF THE DRIVEN EQUIPMENT. VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE MOTOR BEFORE INSTALLING THE CONDUIT OR OUTLETS. USE COPPER WIRE FOR MOTOR CONNECTIONS.

GUARANTEE

GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE 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.

FIRE RATING

CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING REQUIREMENTS AS THEY RELATE TO THE WORK PERFORMED UNDER THIS SECTION OF THE SPECIFICATION.

- ALL FIRE-RATED ASSEMBLY PENETRATIONS SHALL COMPLY WITH UBC SECTIONS 709 AND 710.
- ALL FIRE-RATED ASSEMBLY THRU AND MEMBRANE PENETRATIONS SHALL UTILIZE LISTED FIRESTOP SYSTEMS THAT MAINTAIN THE RATINGS OF THE WALL, FLOOR OR CEILING PENETRATED. FIRESTOP SYSTEMS SHALL BE PROPERLY INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

PLANS SHALL COMPLY TO THE 2018 IRC, IBC, UPC, UMC, IECC, IEBC, 2017 NEC & ANSI A117.1-2009

ELECTRICAL LEGEND

S	SINGLE POLE WALL SWITCH @ +46"
S ₃	THREE WAY WALL SWITCH @ +46"
S ₄	FOUR WAY WALL SWITCH @ +46"
S _D	SINGLE OVER WRITE TYPE SWITCH @ +46"
S _B	SWITCH BANK @ +46"
S _D	SINGLE POLE SLIDE TYPE DIMMER, RATING AND LOAD TYPE AS REQUIRED OR INDICATED
S _M	MOTION SWITCH
S _F	DUAL SLIDE TYPE FAN SPEED / LIGHT LEVEL CONTROL SWITCH
S _T	AUTO SHUT-OFF TIMER SWITCH, VERIFY TIME CYCLE WITH OWNER
	PUSHBUTTON SWITCH
	DUPLEX RECEPTACLE @ +18"
	DOUBLE DUPLEX RECEPTACLE @ +18"
	ISOLATED GROUND TYPE DUPLEX RECEPTACLE @ +18"
	WEATHER PROOF RECEPTACLE
	SPLIT-WIRED DUPLEX RECEPTACLE @ +18"
	HALF-SWITCHED OR TWO CIRCUIT
	GFCI TYPE DUPLEX RECEPTACLE
	50A, 250V RANGE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE AS NOTED ON PLANS
	BOX AROUND SYMBOL INDICATES FLUSH FLOOR OUTLET
	PLUGMOLD MULTIOUTLET SYSTEM, WIRING AND OUTLET CONFIGURATION AS NOTED ON PLANS.
	FLUORESCENT STRIP FIXTURE
	FLUORESCENT LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	HALF SHADED FIXTURE INDICATES EMERGENCY LIGHT FIXTURE OR UNSWITCHED NIGHT LIGHT.
	UPPER CASE LETTER INDICATES FIXTURE TYPE, LOWER CASE LETTER INDICATES SWITCHING GROUP
	POLE MOUNTED LIGHT FIXTURE
	EXIT SIGN, SHADED QUADRANT INDICATES LIGHTED FACE

	COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT WITH TWIN HEADS
	EMERGENCY LIGHTING UNIT WITH TWIN HEADS
	TELEPHONE OUTLET @ +18"
	COMPUTER / DATA OUTLET @ +18"
	COMBINATION VOICE / DATA OUTLET @ +18"
	BOX AROUND SYMBOL INDICATES FLUSH FLOOR OUTLET
	JUNCTION BOX, MOUNTING AS REQUIRED, SIZE PER NEC.
	JUNCTION BOX WALL MOUNTED, SIZE PER NEC.
	SAFETY SWITCH, F SCRIBED INSIDE INDICATES FUSIBLE
	CONTACTOR, DESCRIPTION AS NOTED ON PLANS
	COMBINATION MOTOR STARTER AS NOTED ON PLANS.
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	TRANSFORMER, TYPE AND SIZE AS NOTED (DIAGRAMMATIC)
	PANEL BOARD OR CABINET
	SWITCHBOARD OR MOTOR CONTROL CENTER
	METER
	SHUNT TRIP ELEMENT
	TIME CLOCK
	SPEAKER
	DUCT SMOKE DETECTOR
	THERMOSTAT
	PHOTOCELL
	CHIME
	TRANSFORMER (IN PLAN)
	EXHAUST FAN
	MECHANICAL EQUIPMENT DESIGNATION

ABBREVIATIONS

A	AMPERE(S)	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
A/C	AIR CONDITIONING	GRD	GROUND
AL	ALUMINUM	HP	HORSEPOWER
AMP	AMPERE	J-BOX	JUNCTION BOX
AUTO	AUTOMATIC	LTG	LIGHTING
AWG	AMERICAN WIRE GAUGE	MTR	MOTOR
BC	BARE COPPER	NC	NORMALLY CLOSED
BKBD	BACKBOARD	NEC	NATIONAL ELECTRICAL CODE
CKT BKR	CIRCUIT BREAKER	NO	NORMALLY OPEN
CLG	CEILING	SPOT	SINGLE POLE DOUBLE THROW
CD	CONDUIT	PNL	PANEL
CJ	COPPER	STR	STARTER
EF	EXHAUST FAN	SWBD	SWITCHBOARD
ELEC	ELECTRIC	TEL	TELEPHONE
EM	EMERGENCY	T-STAT	THERMOSTAT
EQUIP	EQUIPMENT	XFMR	TRANSFORMER
EXIST	EXISTING	V	VOLT(S)
4W	FOUR WIRE	W	WATT(S)
F	FUSE	WP	WEATHERPROOF

ELECTRICAL SHEET INDEX:

E000	ELECTRICAL NOTES AND SPECIFICATIONS
E101	NEW ELECTRICAL PLAN
E102	PANEL SCHEDULE & CALCS.

NOTES:
1. DIMENSIONS INDICATED ARE TO CENTERLINE OF DEVICE OR OUTLET FROM FINISHED FLOOR OR FINISHED GRADE.
ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT.

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ELECTRICAL SPECS

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Seal:

11/10/2022

Revisions:

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Issued Date: 10/17/2022

Project No.: 220731

Drawn By: CAAH

Checked By: LFP

Sheet No.:

E000

LIGHTING FIXTURE SCHEDULE					
SYMB.	SYMBOL	DESCRIPTION	CODE/ MANUFACTURE/ MODEL NUMBERS	FINISH	REMARKS
L1		TRACK LIGHTING, US WAC LIGHTING MODEL HTK-104LED-WT-COLOR WHITE	MODEL HTK-104LED-WT-COLOR WHITE	WHITE	USES IN FOH- DINING AREA OPEN CEILING. TO BE ON DIMMERS—MOUNT AT 12' AFF
L2		ALTON PENDANT LIGHT IN SATIN NICKEL W/ STAINLESS STEEL LIGHTING LID FOR MASON JARS	ALTON MASON JAR	SATIN NICKEL	MOUNT AT 6' AFF WHERE OVER TABLES MOUNT AT 7' AFF WHERE IN DINING AREA MOUNT AT 8' AFF IN HALLWAY
L3		RECESSED LIGHTING, 6" TTC 1400 LUMEN LED DOWNLIGHT NEW	TC1422/ JUNC/ TC1422LEDG3-27K-U+27 HYP3-C-WH (17.2 WATTS)	WHITE	SERVICE AREA, RESTROOM & HALLWAY, NOTE: WHITE TRIM IN RESTROOM TO BE ON DIMMERS
L6		RECESSED LIGHTING, 6" TTC 1400 LUMEN LED DOWNLIGHT NEW TO BE SECURELY FASTENED TO UNDERSIDE OF METAL DECK AND SUSPENDED WITH HANGERS.	2' x 2' LAY IN LIGHT W/ ACRYLIC LENSES USE LITHONIA PANEL	WHITE	USED IN BOH
L9		EXISTING- COMBINATION LED EXITING FIXTURE WITH EMERGENCY TWIN HEAD LIGHT, WHITE, POLYCARBONATE HOUSING, SEALED LEAD CALCIUM BATTERY.	{2} 5 WATT HALONGEN	WHITE	
F1		CEILING FAN	PER OWNER'S CHOICE		PER OWNER'S CHOICE

ELECTRICAL NOTES

- ALL OUTLETS TO BE SPACED AND GFIS TO BE LOCATED AS REQ. BY CODE.
- CIRCUITS PROVIDED FOR HVAC AND PLUMBING EQUIPMENT SHALL BE LOCATED PER MECHANICAL DRAWINGS.
- FEEDERS TO AIR CONDITIONING EQUIPMENT SHALL BE LOAD RATED, FUSED DISCONNECTS SHALL BE INSTALLED AT THE AIR CONDITIONING EQUIPMENT. SIZING OF THE FUSES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AIR CONDITIONING INDICATED ON THE PLANS. 120 VAC SERVICE RECEPTACLES SHALL BE INSTALLED SUCH THAT NO H&V EQUIPMENT IS MORE THAN 25 FEET FROM A RECEPTACLE.
- ALL HVAC REGISTERS TO MAINTAIN A MINIMUM OF 24" AWAY FROM CEILING LIGHT FIXTURES.
- ALL LIGHTING FIXTURES SHOWN ON PLAN SHALL ULTIMATELY BE DETERMINED BY OWNER.
- SECURITY AND FIRE SAFETY DESIGN PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL FOLLOW DRAWINGS FROM NEVADA POWER, SPRINT AND COX COMMUNICATIONS FOR DRY UTILITY DESIGN.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE AND DEVIDE THE EXACT NUMBER OF WIRES ESPECIALLY ON 3-WAY SWITCH AS REQUIRED.
- PROVIDE POWER/CONTROL TO DUCT DETECTORS AS REQUIRED VERIFY REQUIREMENTS WITH MECHANICAL.
- WIRE ALL EXIT LIGHTS AND EMERGENCY LIGHTING FIXTURE BEFORE ANY CONTROL SWITCHES.
- ELECTRICAL CONTRACTOR SHALL SUPPLY EXIT DISCHARGE MEANS OF EGRESS LIGHTING FIXTURES PER 2018 IBC SECTION 1013. PROVIDE RECESSED JUNCTION BOX AND CONDUIT SYSTEM TO HOUSE PANEL.
- ELECTRICAL CONTRACTOR SHALL SUPPLY EXIT DISCHARGE MEANS OF EGRESS LIGHTING FIXTURES PER 2018 IBC SECTION 1013. PROVIDE EMERGENCY BALLAST IF REQUIRED.
- AS PER 2018 IECC SECTION C405.2.1.1 INTERIOR LIGHTING CONTROLS. EACH AREA ENCLOSED BY WALLS OR FLOOR-TO-CEILING PARTITIONS SHALL HAVE AT LEAST ONE MANUAL CONTROL FOR THE LIGHTING SERVING THAT AREA. THE REQUIRED CONTROLS SHALL BE LOCATED WITHIN THE AREA SERVED BY THE CONTROLS OR BE A REMOTE SWITCH THAT IDENTIFIES THE LIGHTS SERVED AND INDICATES THEIR STATUS.
EXCEPTIONS: 1. AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT NEED TO BE CONTINUOUSLY LIGHTED. 2. LIGHTING IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE MEANS OF EGRESS.
- AS PER 2018 IECC SECTION C405.2.2.1, AUTOMATIC TIME SWITCH CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTING IN ALL AREAS OF THE BUILDING.

EXCEPTIONS:

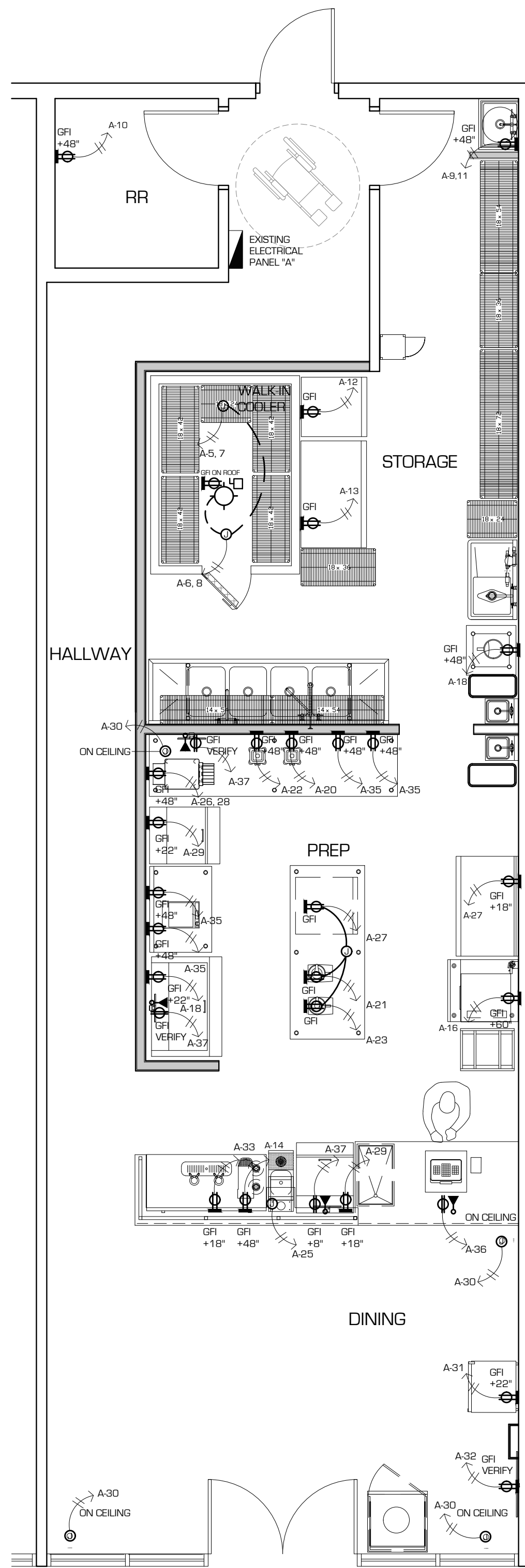
- EMERGENCY EGRESS LIGHTING DOES NOT NEED TO BE CONTROLLED BY AN AUTOMATIC TIME SWITCH.
- LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS DOES NOT NEED TO BE CONTROLLED BY AUTOMATIC TIME SWITCH CONTROLS.
THE AUTOMATIC TIME SWITCH CONTROL DEVICE SHALL INCLUDE AN OVERRIDE SWITCHING DEVICE THAT COMPLIES WITH THE FOLLOWING:
 - THE OVERRIDE SWITCH SHALL BE IN A READILY ACCESSIBLE LOCATION;
 - THE OVERRIDE SWITCH SHALL BE LOCATED WHERE THE LIGHTS CONTROLLED BY THE SWITCH ARE VISIBLE; OR THE SWITCH SHALL PROVIDE A MECHANISM WHICH ANNOUNCES THE AREA CONTROLLED BY THE SWITCH;
 - THE OVERRIDE SWITCH SHALL PERMIT MANUAL OPERATION;
 - THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR A MAXIMUM OF 2 HOURS; AND,
 - ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR A MAXIMUM AREA OF 5,000 SQUARE FEET (465 M²).
EXCEPTION: WITHIN MALLS, ARCADES, AUDITORIUMS, SINGLE TENANT RETAIL SPACES, INDUSTRIAL FACILITIES AND ARENAS:
 - THE TIME LIMIT SHALL BE PERMITTED TO EXCEED 2 HOURS PROVIDED THE OVERRIDE SWITCH IS A CAPTIVE KEY DEVICE; AND
 - THE AREA CONTROLLED BY THE OVERRIDE SWITCH IS PERMITTED TO EXISTINGCEED 5,000 SQUARE FEET (465 M²), BUT SHALL NOT EXCEED 20,000 SQUARE FEET (1860 M²).

- AS PER 2018 IECC SECTION C405.2.2.2 OCCUPANCY SENSORS SHALL BE INSTALLED IN ALL CLASSROOMS, CONFERENCE/MEETING ROOMS, EMPLOYEE LUNCH AND BREAK ROOMS, PRIVATE OFFICES, RESTROOMS, STORAGE ROOMS AND JANITORIAL CLOSETS, AND OTHER SPACES 300 SQUARE FEET (28 M²) OR LESS ENCLOSED BY FLOOR-TO-CEILING HEIGHT PARTITIONS. THESE AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, AND SHALL EITHER BE MANUAL ON OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER.
EXCEPTION: FULL AUTOMATIC-ON CONTROLS SHALL BE PERMITTED TO CONTROL LIGHTING IN PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL-ON OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.

GENERAL NOTES

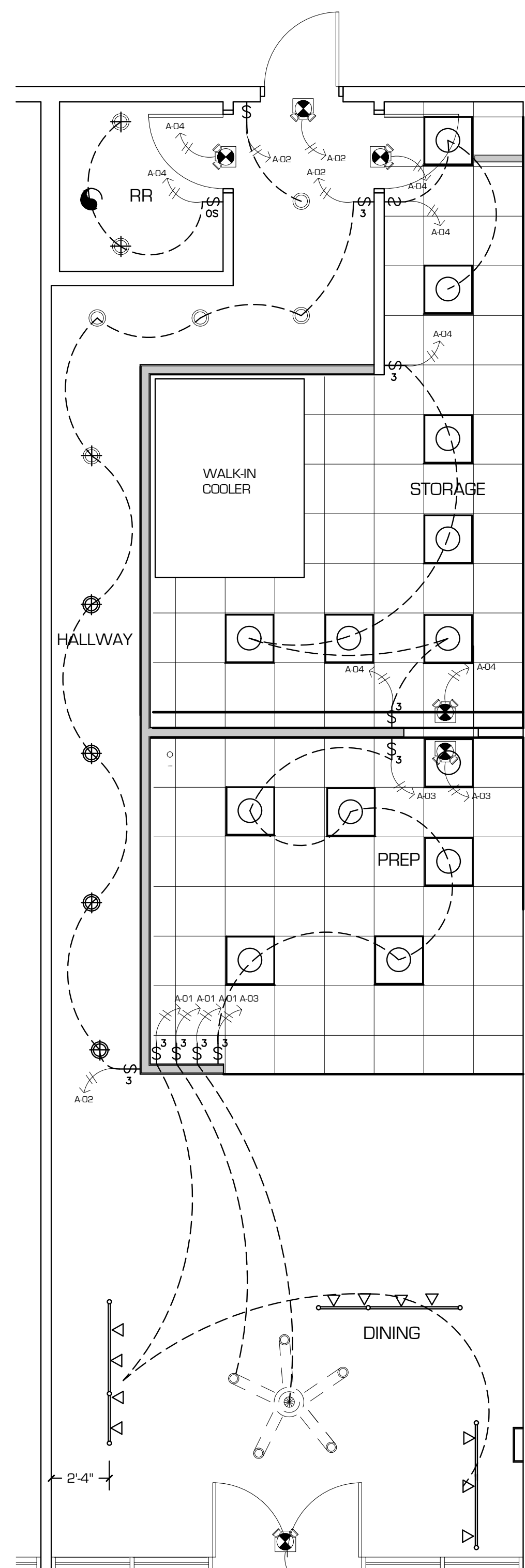
- THE LOCATION, SIZES AND MATERIALS OF THE EXISTING ELECTRICAL SHOWN IN THIS PAGE ARE FOR REPRESENTATION PURPOSES ONLY. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY EXISTING MATERIALS, LOCATE THE CURRENT LOCATION AND EXISTING DIAMETERS ON SITE. IF ANY MAJOR DISCREPANCY IS FOUND, ARE THE ELECTRICAL RESPONSIBILITY TO INFORM THE OWNER AND ARCHITECT OF SUCH VARIATION IN ORDER TO MODIFY THE PLANS ACCORDINGLY.

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	WALL MOUNTED SINGLE PURPOSE RECEPTACLE (FLUSH WITH FINISHED WALL)
	WALL MOUNTED DOUBLE PURPOSE RECEPTACLE (FLUSH WITH FINISHED WALL)
	WALL MOUNTED JUNCTION BOX (FLUSH WITH FINISHED WALL)
	WATERPROOF FIXTURE MOUNTED JUNCTION BOX.
	DROP CORD (FROM CEILING TO 6 FEET ABOVE FINISHED FLOOR)
	ELECTRICAL POWER SWITCH.
	EMPTY CONDUIT FOR COMMUNICATION CABLING (VERIFY POINT OF ORIGIN WITH ARCHITECT)
	ELECTRICAL EXTENSION (FROM ROUGH-IN TO EQUIPMENT POINT OF CONNECTION)
	WATERPROOF FIXTURE MOUNTED SINGLE PURPOSE RECEPTACLE.
	WATERPROOF FIXTURE MOUNTED DOUBLE PURPOSE RECEPTACLE.
	PRE-WIRED EQUIPMENT TO J-BOX AND/OR SUB-PANEL BY K.E.C.
	TELEPHONE JACK
	ROUTER
	PATCH PANEL



1 PROPOSED POWERPLAN

E101 1/4" = 1'-0"



2 PROPOSED LIGHTING PLAN

E101 1/4" = 1'-0"

REVIEWED FOR CODE COMPLIANCE by: Thomas Lawrence CITY OF NORTH LAS VEGAS BUILDING AND FIRE SAFETY 01/24/2023

CONSULTANT: LJ ARCHITECTURE & PLANNING 10436 Sky Gate Street, Las Vegas, NV, 89178 702.687.1744

ARCHITECT OF RECORD: WOW WOW HAWAIIAN LEMONADE T.I. 5564 Camino al Norte, Ste. 81, North Las Vegas, NV 89033

SHEET TITLE: PROPOSED POWER & LIGHTING PLANS

Seal: LUIS FLORES PALZ REGISTERED ARCHITECT No. 64693 STATE OF NEVADA 11/10/2022

Revisions:

Issued Date: 10/25/2022
Project No.: 22185
Drawn By: CAAH
Checked By: LFP

Sheet No.: E101

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ELECTRICAL NOTES

- 1. ALL OUTLETS TO BE SPACED AND GFIS TO BE LOCATED AS REQ. BY CODE.
2. CIRCUITS PROVIDED FOR HVAC AND PLUMBING EQUIPMENT SHALL BE LOCATED PER MECHANICAL DRAWINGS.
3. FEEDERS TO AIR CONDITIONING EQUIPMENT SHALL BE LOAD RATED, FUSED DISCONNECTS SHALL BE INSTALLED AT THE AIR CONDITIONING EQUIPMENT.
15. AS PER 2018 IECC SECTION C405.2.2.1, AUTOMATIC TIME SWITCH CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTING IN ALL AREAS OF THE BUILDING.

EXCEPTIONS:
A. EMERGENCY EGRESS LIGHTING DOES NOT NEED TO BE CONTROLLED BY AN AUTOMATIC TIME SWITCH.
B. LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS DOES NOT NEED TO BE CONTROLLED BY AUTOMATIC TIME SWITCH CONTROLS.
INCLUDE AN OVERRIDE SWITCHING DEVICE THAT COMPLIES WITH THE FOLLOWING:

- A. THE OVERRIDE SWITCH SHALL BE IN A READILY ACCESSIBLE LOCATION;
B. THE OVERRIDE SWITCH SHALL BE LOCATED WHERE THE LIGHTS CONTROLLED BY THE SWITCH ARE VISIBLE; OR THE SWITCH SHALL PROVIDE A MECHANISM WHICH ANNOUNCES THE AREA CONTROLLED BY THE SWITCH;
3. THE OVERRIDE SWITCH SHALL PERMIT MANUAL OPERATION;
4. THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR A MAXIMUM OF 2 HOURS; AND,
5. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR A MAXIMUM AREA OF 5,000 SQUARE FEET (465 M2).

- 16. AS PER 2018 IECC SECTION C405.2.2.2 OCCUPANCY SENSORS SHALL BE INSTALLED IN ALL CLASSROOMS, CONFERENCE/MEETING ROOMS, EMPLOYEE LUNCH AND BREAK ROOMS, PRIVATE OFFICES, RESTROOMS, STORAGE ROOMS AND JANITORIAL CLOSETS, AND OTHER SPACES 300 SQUARE FEET (28 M2) OR LESS ENCLOSED BY FLOOR-TO-CEILING HEIGHT PARTITIONS.
EXCEPTION: FULL AUTOMATIC ON CONTROLS SHALL BE PERMITTED TO CONTROL LIGHTING IN PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL ON OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate
Project Information: Energy Code: 2018 IECC, Project Title: 22185 - HAWAIIAN LEMONADE, Project Type: Alteration
Allowed Interior Lighting Power table with columns A Area Category, B Floor Area (ft2), C Allowed Watts / ft2, D Allowed Watts
Proposed Interior Lighting Power table with columns A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast, B Lamps/ Fixture, C # of Fixture, D Fixture Watt., E (C X D)
Project Title: 22185 - HAWAIIAN LEMONADE, Report date: 10/27/22, Data filename: , Page 1 of 6

Interior Lighting PASSES
Interior Lighting Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application.
Signature and Date lines for Name, Title, Signature, Date
Project Title: 22185 - HAWAIIAN LEMONADE, Report date: 10/27/22, Data filename: , Page 2 of 6

EXISTING PANEL 'A' SCHEDULE table with columns: TYPE, MOUNTING, LOAD SERVE, AMP POLE, NO, PHASE, NO, POLE, AMP, LOAD SERVE. Includes sub-totals for AB, BC, and AC phases.

EX PANEL 'A' LOAD CALCULATION SUMMARY table with columns: LOADS, CONNECTED WATTS, DEMAND FACTOR, DEMAND WATTS. Includes a TOTAL row at the bottom.

Vertical sidebar containing: City of North Las Vegas logo, REVIEWED FOR CODE COMPLIANCE by Thomas Lawrence, BUILDING AND FIRE SAFETY, 01/24/2023, Architect of Record: LJ ARCHITECTURE & PLANNING, PANEL SCHEDULE AND CALCS, Project Title: WOW HAWAIIAN LEMONADE T.I., Seal: LUIS FLORES PALZ REGISTERED ARCHITECT No. 64693 STATE OF NEVADA, 11/10/2022, Revisions section, Issued Date: 10/25/2022, Project No.: 22185, Drawn By: CAAH, Checked By: LFP, Sheet No.: E102

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