#### DIVISION 16 - ELECTRICAL

PART 1 - GENERAL

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Electrical service and service equipment.
- 2. Lighting and power distribution system. 3. Provide lighting fixtures selected by owner
- with lamps to match.
- 4. Wiring devices, boxes, cover plates, etc.
- 5. Source of power for all items of equipment. 6. Grounding.
- 7. Other requirements and/or systems where shown. B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct
- operation. C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
- 1. The 2017 National Electrical Code
- 2. The National Electrical Safety Code. 3. Underwriter's Laboratories, Inc., Standards and
- approved listings.
- 4. Electrical Testing Labatories standards. 5. North Carolina Building Code, Latest Edition and Revisions.
- 6. All local codes and ordinances. D. The Electrical Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required
- for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.
- F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

#### 1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

#### 1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

#### PART 2 - PRODUCTS AND MATERIALS

#### 2.1 GENERAL

- A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
- 1. Boxes installed in concealed locations shall be set flush with the finished surfaces. 2. Provide rated boxes in all fire barriers & walls installed per code

## 2.2 NOT USED

- 2.3 CONDUCTORS
- A. Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice. B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and
- C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.
- D. Conductors shall be spliced and taped as follows:

IPCEA and shall be UL approved.

- 1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
- 2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
- 3. No split-bolt type connectors may be used.
- E. All branch wire and connections shall be copper and sized per National Electric Code.
- F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
- G. All wiring in mechanical spaces shall be plenum rated.
- H. Provide GFI protection within 6'-0" of any sink. I. All multi-wire branch circuits shall comply with 2017 NEC, 210.4(B).
- J. All wiring at medical facilities shall comply with 2017 NEC, 517.1.
- 2.4 PANELBOARDS, SAFETY SWITCHES
- A. Panelboards shall comply with NEMA Standard PB 1 Latest
- Edition and as manufactured by Square D or ITE—Siemens. B. The contractor shall be responsible for correctly phasing the circuits in the panelboards.
- C. Safety switches shall be general duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.
- 2.5 NOT USED
- 2.6 WIRING DEVICES
- A. Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.
- B. Wiring devices installed under a Kitchen Hood shall have C. Wiring devices installed over counters shall comply with ANSI A117.1.
- 2.7 NOT USED

- 2.8 CONDUIT
- A. PVC conduit will be allowed where N.E.C. approved.
- B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

#### PART 3 - EXECUTION

- 3.1 CIRCUIT GROUNDING
- A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.
- 3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES
- system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

A. Outlets and switches shall be solidly grounded to equipment grounding

- 3.3 MOTORS
- A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight
- 3.4 NOT USED

#### 3.5 EQUIPMENT LABELING

- A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.
- B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.
- C. All empty conduit runs shall be identified and indicated where they terminate.
- D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.
- 3.6 NOT USED
- 3.7 NOT USED
- 3.8 JUNCTION AND/OR PULL BOXES
- A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.
- 3.9 PULL WIRE
- A. Leave pull wire in each empty conduit run.
- 3.10 NOT USED
- 3.11 GROUNDING A. All grounding shall be in accordance with Article 250 of the NEC.
- In addition, the following requirements shall be met: 1. Grounding conductors shall be installed as to permit the
- shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible 2. Equipment ground continuity shall be maintained through
- flexible metal conduit. 3. All wiring devices equipped with grounding connection shall be
- solidly grounded to ground system with grounding conductors.
- 4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
- 5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
- 6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

### 3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

- A. PLUMBING WORK: The Electrical Contractor shall furnish connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.
- B. HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

## 3.14 GUARANTEE

3.13 CLEAN UP

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

# - STRUCTURAL CEILING 30" MINIMUM OF WIDTH OF EQUIP - SUSPENDED CEILING - ELECTRICAL EQUIPMENT - EVEN WITH FRONT EDGE OF EQUIPMENT - DEDICATED ELECTRICAL EQUIP. WORKING CLEARANCE THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-16

### ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

	VORKING	CLEA	RANCES			
VOLTAGE TO			DISTANCE I	N FEET		1
GROUND NOMINAL	CONDITION:	1	2		3	
0-150 151-600		3	3 3–1/	2	3 4	

## WHERE THE CONDITIONS ARE AS FOLLOWS:

EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS. 2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED

ELECTRICAL CLEARANCES

PARTS ON THE OTHER SIDE. 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

# GENERAL NOTES

- 1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTERS AND CONDUIT PER NEC.)
- 3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID
- CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F. 4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- 5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- 7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- 12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- 14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE

# APPENDIX B

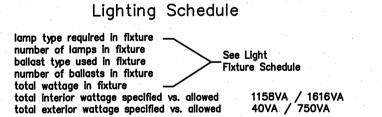
# 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY

# ELECTRICAL SYSTEM AND EQUIPMENT

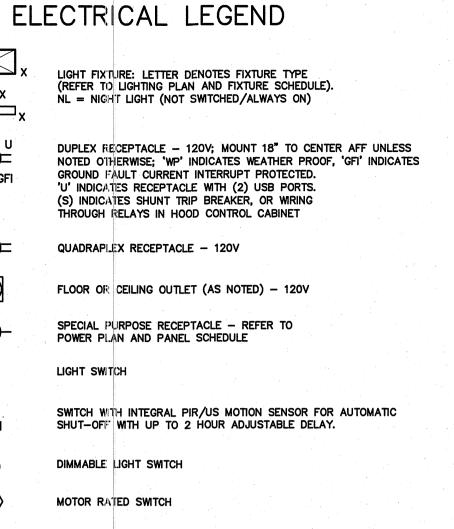
Method of Compliance Energy Cost Budget Prescriptive

Energy Cost Budget



Additional Prescriptive Compliance

- 506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation Systems 506.2.4 Higher Efficiency Service Water Heater 506.2.5 On-Site Supply of Renewable Energy 506.2.6 automatic Daylighting Control System



TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK

TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD EXIT LIGHT

SINGLE-POLE HOMERUN TO PANELBOARD

JUNCTION BOX

EMERGENCY EGRESS FIXTURE PHOTOCELL.

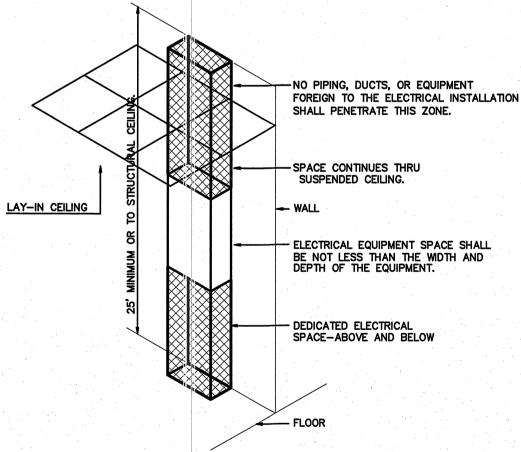
---- SWITCH LEG GROUND CONNECTION

PANEL A

BRANCH CIRCUIT WIRING

DISCONNECTING MEANS AS REQUIRED BY CODE

DISTRIBUTION PANELBOARD



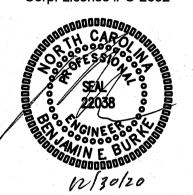
ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.



W. S. ARCHITECTS, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 www.wsarchitectspa.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS 3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com Corp. License # C-2652



PROJECT TITLE MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO. 2006r DRAWING TITLE

**ELECTRICAL SPECIFICATIONS** 

PLOT DATE

12/30/2020

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM A FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED. Mi Cancun Angier E2 WALL LEGEND EXISTING WALL TO REMAIN EXISTING WALL TO BE REMOVED THE SCOPE OF DEMOLITION IS AS FOLLOWS-REMOVE ALL LIGHTING AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.
REMOVE ALL DEMO'ED LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC. REMOVE ALL DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED. REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT. HVAC METER 🗍 

DEMO LIGHTING PLAN

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

HVAC

WALK-IN COOLER

| | WALK-IN | FREEZER

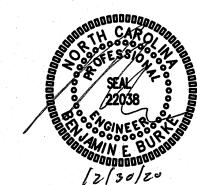
| GREASE | | TRAP |

0

WEEKS SUMMER

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PROJECT TITLE

MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE

DEMO LIGHTING PLAN

PLOT DATE

12/30/2020

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THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER

PROVIDE JUNCTION BOXES FOR WALK-IN COOLER LIGHTS. COORDINATE LOCATION

MINIMUM 10fc SHALL BE MAINTAINED IN WALK-IN COOLER. EC SHALL PROVIDE SUPPLEMENTAL FIXTURES IF FREEZER/COOLER GLOBES ARE NOT ADEQUATE.

PROVIDE CONDUIT SEALS FOR ALL LOCATIONS WHERE CONDUITS PENETRATE WALK-IN COOLER WALLS.

AND REQUIREMENTS.

HEALTH DEPARTMENT LIGHTING NOTES PRIOR TO INSPECTION, EC SHALL VERIFY THAT THE FOLLOWING MINIMUM LIGHT LEVELS ARE PROVIDED: 10 fc AT A DISTANCE OF 2'-6" ABOVE THE FLOOR IN DRY STORAGE AREAS AND IN OTHER AREAS AND ROOMS DURING CLEAN-UP;

20 fc AT SELF-SERVICE COUNTERS SUCH AS BUFFETS AND SALAD BARS, WHERE FRESH PRODUCE OR PACKAGED FOOD IS SOLD OR OFFERED FOR CONSUMPTION, INSIDE EQUIPMENT SUCH AS REACH—IN AND UNDER—COUNTER REFRIGERATORS, AND AT A DISTANCE OF 2'—6" ABOVE THE FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS;

50 fc AT FOOD PREPARATION SURFACES AND SURFACES WHERE EMPLOYEE SAFETY IS A FACTOR SUCH WHERE USING KNIVES, SLICERS, GRINDERS, OR SAWS, ETC. EC SHALL ADJUST LIGHTING AS REQUIRED TO PROVIDE

THE LIGHTING IN THE KITCHEN AND PREP AREAS ARE DESIGNED AROUND HEALTH DEPARTMENT REQUIREMENTS FOR MINIMUM LIGHT LEVELS. PER SECTION 101.3 OF THE 2012 NC ENERGY

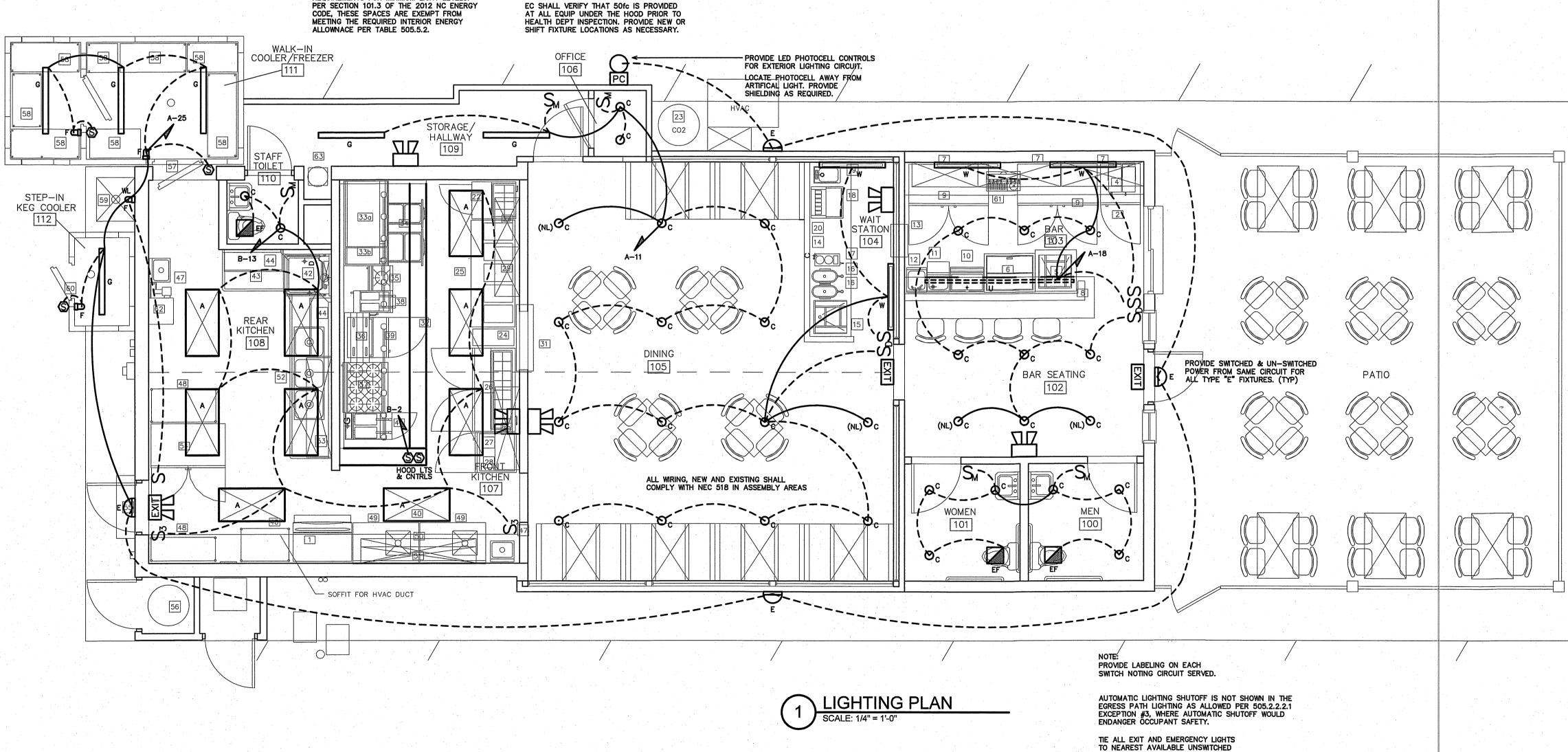
THE NECESSARY MINIMUM LIGHT LEVELS.

LIGHTING SCHEDULE \* VOLT. NO. TYPE W TYPE FIXTURE REMARKS MARK MANUFACTURER CATALOG NO. A COLUMBIA 60 LED 2X4 SURFACE-MOUNT FIXTURE, FOOD GRADE LENS LJT24-40VLSM-FSA12-EU 120 - LED -20 LED 6" RECESSED CAN LIGHT LF6LEDG4-6LFLED6G435K C PRESCOLITE 10 EMERGENCY EGRESS FIXTURE - DUAL MODE, NORMAL AND EMERGENCY OPERATION E COMPASS 28 LED VAPOR TIGHT, COOLER VTC-5K-G-U 42 ENCLOSED GASKETED LED STRIP LIGHT LXEM4-35ML-RFA-EDU 3W/FT LED FLEX STRIP LIGHTING, COLOR/FINISH BY ARCH U ASPECT LED AL-SL-NR-U 40 LED WALL-MOUNT DIRECT LIGHT FIXTURE, FOOD GRADE LENS, COLOR/FINISH BY ARCH BU-D-4-4K-EBU EXIT MULE - EXIT LIGHT, COLOR/FINISH BY ARCH PVT-U-B-R-U-SD MULE - COMBINATION EMERGENCY/EXIT LIGHT, COLOR/FINISH BY ARCH SQRXU MULE MULE - EMERGENCY LIGHT, COLOR/FINISH BY ARCH

LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

\* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.



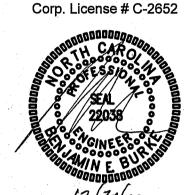


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PROJECT TITLE MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO. 2006r DRAWING TITLE LIGHTING PLAN

PLOT DATE

12/31/2020

NOTE:
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THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

Mi Cancun Angier E4

WALL LEGEND

EXISTING WALL TO REMAIN

EXISTING WALL TO BE REMOVED

HVAC

METER [

HVAC

<del>- - - -</del>

0

DEMO POWER PLAN

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

· - - - -

GREASE TRAP

0

WALK-IN FREEZER

WALK-IN COOLER

THE SCOPE OF DEMOLITION IS AS FOLLOWS—
REMOVE ALL DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.
REMOVE ALL WRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.

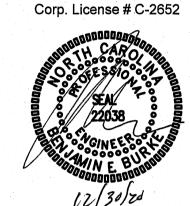
WEEKS
SUMMER
RCHITECTS

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**ENGINEER** 

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PROJECT TITLE MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO.

2006r

DRAWING TITLE

DEMO POWER PLAN

164

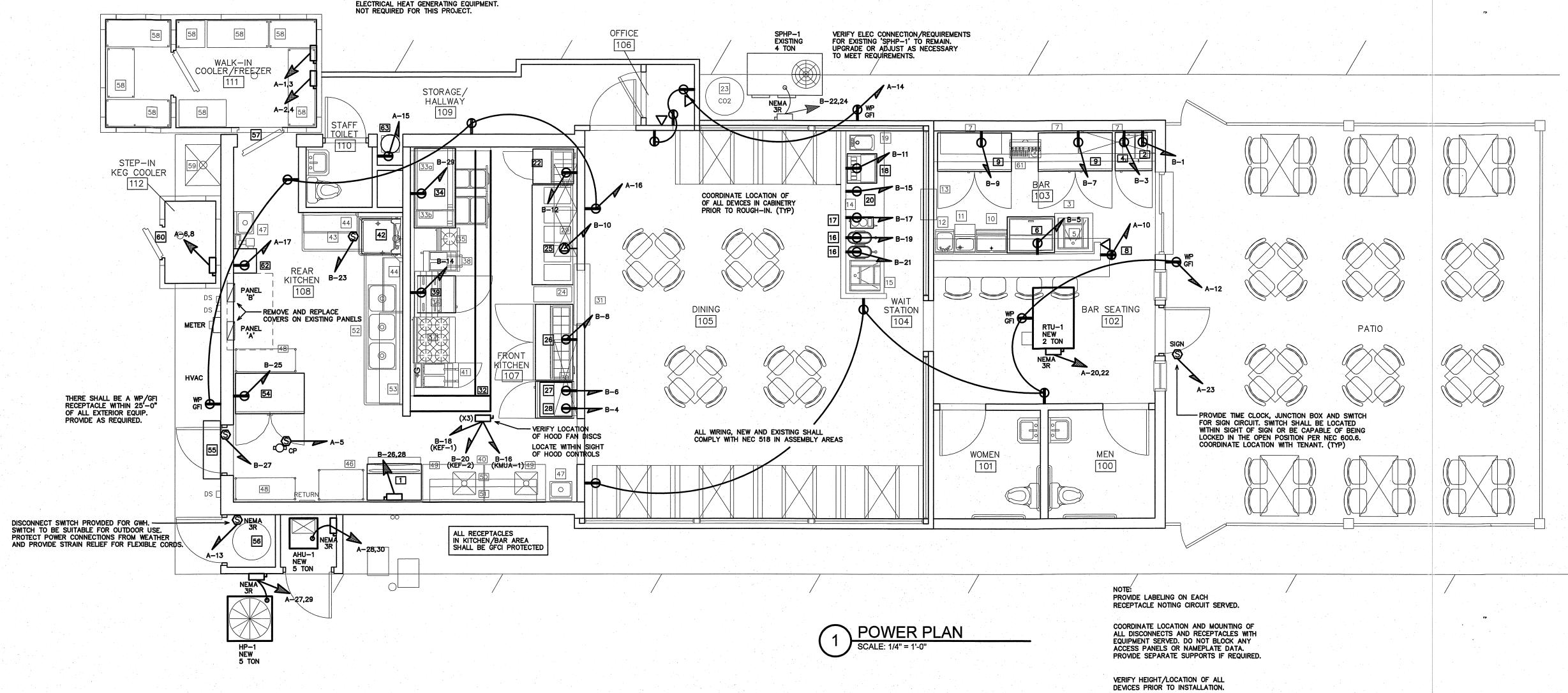
PLOT DATE

A" v 36": other dimensions

12/30/2020

	EQ	UIPMENT SCHEDULE																		( VI	ERIFY ALL	EQUIPMENT REQ	UIREMENTS PRIOR TO ROUGH-IN )	
TEM	QUAN	DESCRIPTION		ELECTRICAL CHARACTERISTICS							ITEM	OLIAN	DESCRIPTION	ELECTRICAL CHARACTERISTICS										
IEM	QUAN	DESCRIPTION	FLA	MCA	MOCP	WATTS	HP	VOLTS	PH	CONNECTION	WIRE SIZES	ITEM	QUAN	DESCRIPTION	FLA	MCA	MOCP	WATTS	HP	VOLTS	PH C	ONNECTION	WIRE SIZES	
1	- 1	ICE MACHINE W/ BIN	12A	_	20A	_	_	240	1	DISCONNECT	3-#12, 1-#12 GND IN 3/4" CONDUIT	33A	1	48" FLAT GRIDDLE (GAS)	-	-	<b>—</b> .	_		_			<u>-</u>	
2	1	1-DOOR WORKTOP REFRIGERATOR	2.2A	-	20A	_	1/5	120	1	5–15	2-#12, 1-#12 GND IN 1/2" CONDUIT	33B	1	12" RADIANT GRILL (GAS)	_	-	_	_		_			<del>-</del>	
3	1	MILLWORK BACK COUNTERTOP	_	_	_	_		<u> </u>	-	_	_	34	1	60" REFRIGERATED CHEF BASE	3.2A	_	20A	_	1,/4	120	1 5-	-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	
4	1	MARGARITA MACHINE	_		20A	1700	1/2	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	35	1	STOCK POT BURNER (GAS)	_	_	_	· - ·		-				
5	1	SOILED DISH RACK STORAGE		-					-	·- ·		36	1	CHEESEMELTER (GAS)	-	_	_	-		_			<u> </u>	
6	1	DEEP WELL GLASS FROSTER	1.6A	_	20A	_	1/3	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	37	- 1	6-BURNER RANGE W/ OVEN (GAS)	-	-	· <u>-</u>			_			-	
7	LOT	WALLMOUNT CLEAN GLASS SHELVING	_	_	_	_		_	-	_		38	1	DEEP FRYER (GAS)	-	_	_	_		_			<del>_</del>	
8	1	POINT OF SALE	T -	_	20A	_	_	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	39	1	UNDERCOUNTER FREEZER	1.9A	_	20A	_	1/3	120	1 5-	-15	2-#12, 1-#12 GND IN 1/2" CONDUI	
9	1	BACK BAR REFRIGERATION	2.8A	<b>I</b> -	20A	_	1/3	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	40	-	S/S SPLASHGUARD	_·		_	_		_			_	
10	1	S/S 24" ICE WELL W/ COLD PLATE	T -	-	-		_	_	- 1	_ ·	_	41	_	DEEP FRYER (GAS)	_		_			_	T-  -		_	
11	1.	S/S BAR DUMP SINK	-	-	_	-	_		1 – 1		_	42	1	LOW TEMP DISHMACHINE	11.4A	_	20A	_		120	1 SW	MTCH	2-#12, 1-#12 GND IN 1/2" CONDUI	
12	1	S/S BAR HAND SINK		T -	_	_	Ī -	_	1-1	_	_	43	1	S/S 48" LH CLEAN DISHTABLE	_	_		_		-	1-1-		-	
13	.1	PASS-THRU SHELF	1 -		_	-	-		-		_	44	2	S/S WALLMOUNT RACK STORAGE	-		·	T -					<del>-</del>	
14	1	MILLWORK COUNTERTOP W/ BASE CABINETS	1 -	_	-	_		1.1	1-1	_	_	45	. 1	NOT USED	_	_	_	_						
15	1	CLEAN GLASS RACK STORAGE UNIT	_	l -	_	-	_	_	1 - 1		_	46	1	S/S DRYING RACK CART	_	_		_		-	T-			
16	2	TEA BREWER / URN	14.8A	_	20A	_	_	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	47	, 2	S/S WALLMOUNT HAND SINK W/ SPLASHGUARDS	_	_		_			- -		_	
17	1.	COFFEE BREWER	13.9A	T -	20A	T -	_	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	48	LOT	S/S FREESTANDING SHELVING UNIT	_	_	_	_		_	T - I -		_	
18	· 1	SODA DISPENSER W/ ICE MACHINE	T -		20A	300	-	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	49	2	S/S PREP SINK	_	-		_		_			_	
19	. 1	S/S DROP-IN HAND SINK W/ SPLASHGUARDS	_	_	-	_		_	-	_	_	50	1	S/S 16" X 84" WALLMOUNT SHELF	_	_	_	_						
20	1	BAG-IN-BOX UNIT W/ CARBONATOR	7.2A	_	20A	_	-	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	51	1	S/S 16" X 84" WALLMOUNT SHELF	_		_	_				,	_	
21	_	NOT USED	_	_		-	_		-	. —	_	52	1	S/S 3-COMPARTMENT SINK W/ 24" DRAINBOARDS	_	-	_			- 1				
22	_	28" REFRIG SANDWICH/SALAD UNIT	3.8A	-	20A	_	_	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	53	1	S/S 15" X 72" WALLMOUNT SHELF W/ POTRACK	_	_	_	_		_				
23	1	CARBON DIOXIDE TANK	_	l -	_		-	7.1	1_1		_	54	1	2-DOOR REACH-IN REFRIGERATOR	2.3A	_	20A	_	1/5	120	1 5-	-15	2-#12, 1-#12 GND IN 1/2" CONDUI	
24	1	S/S FILLER TABLE W/ UNDERSHELF		_		_	_		1 - 1	_	_	55	1	FLY FAN (VERIFY LOCATION/REQUIREMENTS)	-	_	20A	500	~-	120	1 5-	-15	2-#12, 1-#12 GND IN 1/2" CONDUI	
25	1	4-WELL HOT HOLDING TABLE (VERIFY MODEL)	T -	-	30A	2000	-	120	1	5-30	2-#10, 1-#10 GND IN 3/4" CONDUIT	56	1	WATER HEATER IN EXTERIOR ENCLOSURE	_	_	_	_		_			_	
26	1	60" REFRIG SANDWICH / SALAD UNIT	4.4A	_	20A	_	1/3	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	57	1	EXT WALK-IN COOLER/FREEZER COMBO (VERIFY)	_	_	20A			240	1 DIS	SCONNECT (2)	3-#12, 1-#12 GND IN 3/4" CONDUI	
27	1	CHIP WARMER	12.5A	·	20A	1500	-	120	+	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	58	LOT	WALK-IN SHELVING	·	_	_			_				
28	1	1-DOOR UNDERCOUNTER REFRIGERATOR	2.2A		20A		1/5	120	+ +	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT	59	. 1	CAN WASH IN EXTERIOR ENCLOSURE	_	_	_	_		_				
29	1	S/S 16" X 36" WALLMOUNT SHELF		<b> </b>	<u> </u>		1 - T		╽╌╽	- ··-		60	1	EXT STEP-IN KEG COOLER (VERIFY)	_	_	20A			240	1 DIS	SCONNECT	3-#12, 1-#12 GND IN 3/4" CONDUI	
30	1	S/S 16" X 60" WALLMOUNT SHELF	T			1 _	T -	T	1_1	_		61	1	DRAFT BEER TOWER W/ SPILL/RINSE DRIP TRAY	_	_	<del></del>	_			† <u>-</u> †-	,		
31	1	S/S PASS-THRU SHELF		<b> </b>	<b>1</b>	_	<u> </u>	_	_			62	1	DRAFT BEER REFRIGERATED LINE GLYCOL CHILLER	12.1A	_	20A	1_	1/3	120	1 5-	-15	2-#12, 1-#12 GND IN 1/2" CONDUI	
32	2	HOOD KEF (X2)	11.6A		20A	<del>                                     </del>	1	120	11	DISCONNECT	2-#12, 1-#12 GND IN 1/2" CONDUIT	63	1	NITROGEN GENERATOR W/ TANK	5A	_	20A		<u> </u>	120	1 5-		2-#12, 1-#12 GND IN 1/2" CONDUI	
32	1	HOOD KMUA	8.1A		20A	<del>                                     </del>	╅	120	+ +	DISCONNECT	2-#12, 1-#12 GND IN 1/2" CONDUIT								L	120	1 1 5			

KITCHEN/BAR AREA: ALL SINGLE PHASE RECEPTACLES 50A OR LESS, 150 VOLTS TO GROUND OR LESS AND ALL THREE PHASE RECEPTACLES 100A OR LESS, 150 VOLTS TO GROUND OR LESS SHALL BE GFCI PROTECTED. EC PROVIDE WIRING FROM HOOD CONTROLS
TO FANS ON ROOF. VERIFY HOOD FANS HAVE
INTEGRAL DISCONNECTING MEANS ON ROOF
AS SPECIFIED. IF NOT, PROVIDE WP/NEMA-3R
RATED DISCONNECTING MEANS AS REQUIRED. PROVIDE FAN DISCONNECTING MEANS WITH-IN SIGHT OF HOOD CONTROLLER.
SEE MECH SHEETS FOR KITCHEN HOOD FAN LOCATIONS. PROVIDE CONDUIT SEALS FOR ALL LOCATIONS WHERE CONDUITS PENETRATE WALK-IN COOLER WALLS. CO DETECTOR(S) REQUIRED IN ALL A2 OCCUPANCY (RESTAURANT) SPACES WITH GAS FUEL FIRED EQUIPMENT. PROVIDE IN KITCHENS AND ANY OTHER AREAS OPEN TO KITCHENS VERIFY EXACT LOCATION OF COOLER/FREEZER EQUIP. W/ OWNER/ARCH. (S) RECEPTACLES SHALL RUN THROUGH HOOD CONTROL RELAYS FOR "SHUNT PURPOSES". SHUNT TRIP IS ONLY REQUIRED FOR ELECTRICAL HEAT GENERATING EQUIPMENT. NOT REQUIRED FOR THIS PROJECT. VERIFY ELEC CONNECTION/REQUIREMENTS FOR EXISTING 'SPHP-1' TO REMAIN. UPGRADE OR ADJUST AS NECESSARY TO MEET REQUIREMENTS. OFFICE SPHP-1 EXISTING 4 TON 106

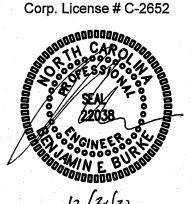




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PROJECT TITLE MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO. 2006r DRAWING TITLE POWER PLAN

PLOT DATE

12/30/2020

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM A FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

								· · · · · · · · · · · · · · · · · · ·				
EXISTING PANEL 'A'		CUTLER HA	MMER		120/240 <u> </u>	PHAS	<u> 3</u> WIRE			UIT BREAKER		
LVISTING LVINEE V	TYPE: _	VERIFY			G: FLUSH			EQUIPMENT GROUND BUS XYES □NO				
	,			MINIMUM	AIC: VERIF	Υ		SERVICE EN	ITRY R	ATED DYES DNO		
LOAD	CKT	WATTS PE	R PHAS	E CKT	NEUTRAL	CKT	WATTS I	PER PHASE	CKT	LOAD		
SERVICE	BRKR	A	В	NO	A B	NO	A	В	BRKR	SERVICE		
WALK-IN FREEZER	30A		* *.	1		2			30A	SPARE		
•	30/1			3		4			JUA			
WALK-IN COOLER	20A			5		6			30A	HOT BAR		
SPARE	30A			7		8			JUA			
•	00/1			9		10			20A	REGISTER		
LTS	20A			11		12				SPACE		
HEATER	20A			13		14			20A	SPARE		
ICE MACHINE	20A			15		16			20A	SPARE		
***************************************	20A			17		18	. ———	<u> </u>	20A	LTS		
SPACE				19		20			100A	AC-1		
SPACE				21		22			100/1			
•	20A			23		24				SPACE		
LTS	20A	·		25		26				SPACE		
•	30A			27		28			60A	•		
<u> </u>				29		30				•		
NOTES SUB-TO	TALS 'B'			-	_200A_	BUS			SUB-	TOTALS 'A'		
					_200A	LUGS				TOTALS 'B' TOTAL CONNECTED LOAD		
					200A	FEED			GRANI	O TOTAL TOTAL CONNECTED EDAD		
					<u>VERIFY</u>	SIZE	A	——A	AMPS,	/PHASE		

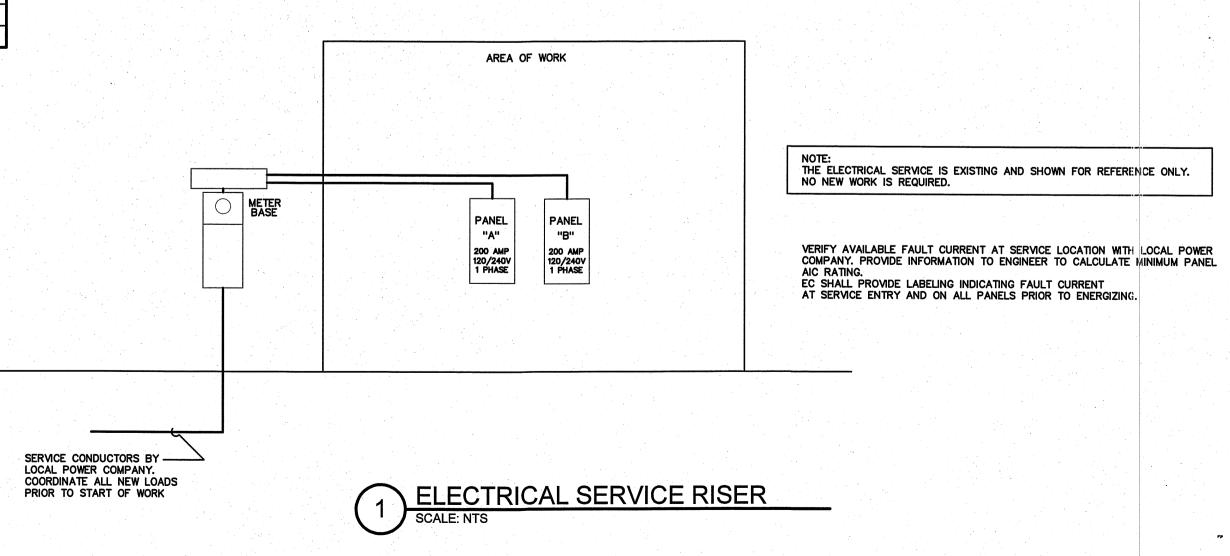
REVISED PANEL 'A'		CUTLER H VERIFY		OUNTIN	120/240 G:_FLUSH AIC:_VE			<u>3</u> WIRE	EQUIPMENT	GROUN	CIRCUIT BREAKER ROUND BUSXYESIN RY RATED YESIN				
LOAD	CKT		ER PHASE	CKT	NEUTR/	. 1	кт		PER PHASE	CKT		LOAD			
SERVICE	BRKR	A	В	NO	AB		NO	Α	В	BRKR		SERVICE			
WALK-IN COOLER/FREEZER	20A	1200	1200	3		<u></u>	2 4	1200	1200	20A	WALK-IN C	COOLER/FREEZER			
CIRC PUMP	20A	300	1.200	5		<u> </u>	6	1200	1.200	20A	STEP-IN K	EG COOLER			
SPARE	30A			7		$\overline{\bigcirc}$	8		1200		•				
				9		$\frac{1}{2}$	10	360			REC: POS				
LTS: DINING,HALL	20A		484	11			12		720	20A	REC: BAR,	DINING			
GWH CNTRLS	20A	300		13	$\cap$		14	720		20A	REC: OFFIC	E,DINING			
NITRO GENERATOR (63)	20A		600	15	$\cap$	$\sim$	16		720	20A	REC: HALL	WAY, KITCHEN			
DRAFT BEER CHILLER (62)	20A	1452		17	$\cap$	ς.	18	674		20A	LTS: FRON	T/BAR			
SPACE				19		7	20		4572	50A	RTU-1				
SPACE				21	$\cap$	7	22	4572		JUA					
SIGN	20A		1200	23			24				SPACE				
LTS: EXT,COOLER	20A	320		25	$\cap$	$\overline{}$	26				SPACE				
HP-1	50A		3312	27	$\cap$		28		5520	604	AHU-1				
•	SUA	3312		29		$\sim$	30	5520		60A	•				
NOTES SUB-T	OTALS 'B'	6884	6796	$\bowtie$	_200A	BU	JS	14246	13932	SUB-	TOTALS 'A'				
EXISTING/UNCHANGED CIRCUIT				2004		_200A		200A LUGS		6884	6796	SUB-	TOTALS 'B'	TOTAL CONNECTED LOAD	
NEW/REVISED CIRCUIT						DA FEED		21130	20728	GRANE	TOTAL	TOTAL CONNECTED LO			
					VERIFY		IZE 176A		173A	AMPS,	/PHASE	A STATE OF THE STA			
NEC ALLOWABLE DEMAND	FACTO	RS	DIVERSI	FIED	LOAD S	UMM/	ARY.				**				
DEMAND FACTORS PER NEC			LOAD				AND FOR①	Α	В	TOTAL	TOTAL DIVERSIFIED LOAD				
2 LARGEST OF: NEC TABLE 2 CONNECTED LOAD	20.12 UK		GENERAL L TRACK LIGH		2	125 125		1243	605		1848				
3 NEC TABLE 220.56			GENERAL U			≤10KVA		1080	1440		2520				
(4) NEC 220.51			RECEPTACL			>10KVA									
5 NEC 220.43A, 200 VA/LINE	AR FT		MOTORS AN EQUIPMENT		RGEST L OTHERS	125		4140 10092	4140 10092		8280 20184				
(6) NON-COINCIDENT LOADS, LA		WATER HEA		L OTHERS	125										
OF THE TWO LOADS IS COU		KITCHEN EC					3284	2730		6014					
			FIX. ELEC. SHOW WIND									<u> </u>			
		SIGN	OW LIG	1113 6	125			1500		1500					
		MISC			100	%	600			600					
					PHASE (	(TOTAL		20439	20507		40946				
						TO AN	TAL IPS	170A	171A		<u>T AMPS</u> , VOLTS	TOTAL AMPS			

		, ·												
EXISTING PANEL 'B'	MAKE: _ TYPE: _	CUTLER HA	M	OUNTING	120/240 G: <u>FLUSH</u> AIC: <u>VERIF</u>		3 WRE	EQUIPMENT	MLO_MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUSXI SERVICE ENTRY RATED					
LOAD	CKT	WATTS PE	r Phase	CKT	NEUTRAL	CKT	WATTS	PER PHASE	CKT		LO/			
SERVICE	BRKR	A	В	NO	A B	NO	Α .	В	BRKR		SERV	ICE		
SPARE	20A			1		2			20A	HOOD LTS				
SPARE	20A			3		4			20A	SPARE				
REFRIG.	20A			5		6			20A	SPARE				
SPARE	20A			7		8			ZON	•				
OUTSIDE FAN	20A			9		10			30A	SPARE				
SPARE	20A			11	$\cap$	12			JUA					
LTS	20A			13		14			30A	SPARE		. 1		
REC	20A			15		16			JUA					
REC	20A			17		18			30A	SPARE				
LTS	20A			19		20			JUA					
REFRIG.	20A			21		22			50A	AC-2	-			
SPACE				23		24			JUA	•				
SPACE				25		26			30A	AC-3				
SPACE		'.		27		28			JUA	<b>.</b>				
SPACE				29		30				SPACE				
NOTES SUB-TOT	ALS 'B'			$\bowtie$	_200A_	BUS			SUB-	TOTALS 'A'				
					_200A	LUGS				TOTAL C 'D'	TOTAL	COMPLEATED 1		
					200A	FEED				TOTAL	IOIVE	CONNECTED LO		
					VERIFY	SIZE	——А	A	AMPS	/PHASE				

Mi Cancun Angier E6	MAKE: _C	UTLER HA	MMER_R	ATING:_	20/240	PHASE	3 WRE	MLO MAI	11 11/4			
REVISED PANEL 'B'	TYPE: _Y	ERIFY	М	OUNTIN	G: FLUSH			EQUIPMENT GROUND BUS XYES DO				
			М	INIMUM	AIC: VERIE	Υ		SERVICE EN	ITRY R	•	YES INO	
LOAD	СКТ	WATTS PE	R PHASE	CKT	NEUTRAL	СКТ	WATTS F	ER PHASE	CKT	L	CAD	
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR		VICE	
1-DOOR REFRIG (2)	20A	264		1	$\sim$	2	800		20A	HOOD LTS/CNTR	l.Si	
MARGARITA MACHINE (4)	20A		1700	3	$\sim$	4		264	20A	1-DOOR UC REF	HG. (28)	
GLASS FROSTER (6)	20A	192		5	$\cap$	6	1500		20A	CHIP WARMER (2	(7)	
BACK BAR REFRIG (9)	20A		336	7 .	$\cap$	8		528	20A	60" REFRIG UNIT	(26)	
BACK BAR REFRIG (9)	20A	336		9		10	2000		30A	HOT HOLDING TA	INE (25)	
SODA DISP. (18)	20A		300	11	$\cap$	12		456	20A	28" REFRIG UNIT	(22)	
LTS: KITCHEN	20A	712		13	$\cap$	-14	228		20A	UC FREEZER (39	)	
BAG N BOX (20)	20A		864	15	$\sim$	16		972	20A	HOOD KMUA		
COFFEE BREWER (17)	20A	1668		17	$\sim$	18	1392		20A	HOOD KEF-1		
TEA BREWER (16)	20A		1776	19	$\cap$	20		1392	20A	HOOD KEF-2		
TEA BREWER (16)	20A	1776		21	$\cap$	22	3564		50A	SPHP-1		
DISH MACHINE (42)	20A		1368	23	$\sim$	24		3564	JUA			
2-DOOR REACH-IN (54)	20A	276		25	$\sim$	26	1440		20A	ICE MACHINE (1)		
FLY FAN (55)	20A		500	27	^	28		1440	ZUA	•		
REFRIG CHEF BASE (34)	20A	384		29	$\sim$	30				SPACE		
NOTES SUE	B-TOTALS 'B'	5608	6844	$\bowtie$	_200A	BUS	10924	8616	SUB-	TOTALS 'A'	11 11/0	
EXISTING/UNCHANGED CIRCUIT				1	_200A_	LUGS	5608	6844	SUB-	TOTALS 'B'	L CONNECTED LOAD	
NEW/REVISED CIRCUIT					_200A_	FEED 16532				TOTAL	COMMECTED LOAL	
					<u>VERIFY</u>	SIZE	138A	129A	AMPS,	/PHASE		
NEC ALLOWABLE DEMA	ND FACTOR	s	DIVERS	FIED	LOAD SUM	MARY					11 11 11 11 11 11 11 11 11 11 11 11 11	
① DEMAND FACTORS PER			LOAD	TYP		EMAND ACTOR①	Α	В	TOTAL	. DIVERSIFIED LOA	(D) ~	
2 LARGEST OF: NEC TABL CONNECTED LOAD	E 220.12 OR		GENERAL L			25%	890			890		
3) NEC TABLE 220.56		H	TRACK LIG			25% KVA <b>©100%</b>						
(4) NEC 220.51			RECEPTACL	ES	>10	KVA@50%				· · · · · · · · · · · · · · · · · · ·		
(5) NEC 220.43A, 200 VA/I	INEAR FT		MOTORS A	_		25% 00%	4455	4455		8910		
6 NON-COINCIDENT LOADS			WATER HE	ATERS		25%						
OF THE TWO LOADS IS			KITCHEN E FIX. ELEC.			65% 00%	7966 	7732		15698 		
			SHOW WINE		HTS 🚯 1	25%						
			SIGN			25%						
			MISC			00% AL VA)	13311	12187		25498		
		_			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL	111A	102A		TAMPS _ 1/	DEA TOTAL	
	1					AMPS	1117	1024		VOLTS 1	AMPS	

Mi Cancun Angier E6  EQUIF	PMEN	V TV	VIRIN	IG	SCHEDULE
EQUIPMENT	МСА	МОСР	VOLTS	PH	WIRE SIZE
AHU-1	58.5A	60A	240V	1	3-#6, 1-#10 GND IN 1" CONDUIT
HP-1	34.2A	50A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT
RTU-1	47.3A	50A	208V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT

NOTE: THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.





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PROJECT TITLE MI CANCUN

115 S. RALEIGH ST. ANGIER, NORTH CAROLINA

PROJECT NO. **2006r** 

DRAWING TITLE
ELECTRICAL PANELS & RISER

**E**6

PLOT DATE

12/30/2020