

PROJECT NAME : PANDA EXPRESS

DETAILED - MARKUPS



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REVISIONS:

▲	BUILDING COMMENTS	03-18-24
▲	HEALTH COMMENTS	03-18-24
▲	MEP COMMENTS	03-18-24
▲	PX REVISIONS	03-18-24

ISSUE DATE:

1st	1ST SUBMITTAL	11-06-23
2nd	2ND SUBMITTAL	03-18-24
3rd	BID SET	05-23-24

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PANDA PROJECT #: S4-25-025363

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ARCH PROJECT #: 23-110



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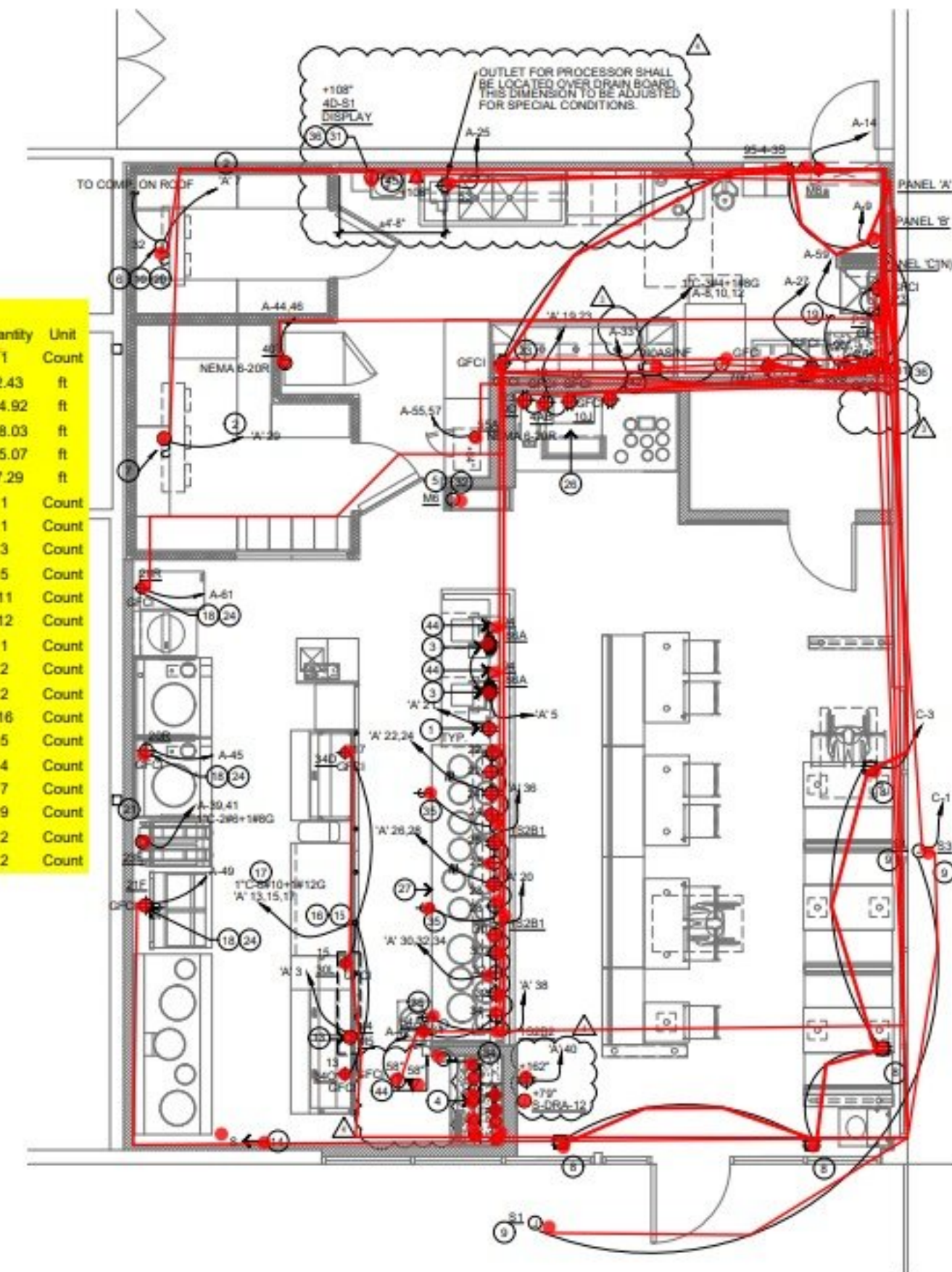
E-100

POWER FLOOR PLAN

BID SET 05/23/24

- ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
- PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.
- PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 3/E-200.
- SEE "MANAGER STATION ELEVATION" 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
- ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
- REFER TO LTG AND DOOR HEATER WIRING DIAGRAM, 10/E-400.
- REFER TO "COOLER EVAPORATOR COIL" WIRING DIAGRAM, 8/E-400.
- SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E-101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
- BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
- REFER TO "FREEZER EVAPORATOR COIL" WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
- NOT USED.
- NOT USED.
- HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
- PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
- 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-100. COORDINATE LOCATION WITH ARCHITECT / OWNER.
- ROUTE CABLEING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
- UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
- ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSU/V). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 6/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION.
- SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP.
- PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
- ELECTRIC GRIDDOLE "23E" FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 4/E-200.
- NOT USED.
- NOT USED.
- PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSU/V).
- NOT USED.
- SEE DRINK STATION ELEVATIONS, 5/E-200.
- SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
- NOT USED.
- SEE DINING ROOM MONITOR ELEVATION, DETAIL 7/E-200.
- NOT USED.
- REFER TO 9/E-200 FOR LOCATION/INSTALLATION OF CO2 DEVICE.
- SEE SWITCH BANK ELEVATION, DETAIL 1/E-200.
- FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
- SEE SECURITY KEY PAD ELEVATION 1/E200.
- CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
- PANDA EXPRESS TO PROVIDE CO2 MONITOR. E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
- NOT USED.
- NOT USED.
- NOT USED.
- PROVIDE (1) 3/4" UNDERGROUND CONDUIT AND PULLSTRING FOR LOW VOLTAGE WIRING. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP THROUGH WALL AND ABOVE CEILING ADJACENT TO MANAGER STATION.
- FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING, REFER TO 13/E-400.
- ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX AT +90". ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE. FINAL CONNECTIONS BY HOBART SERVICE.
- PROVIDE (1) 1" UNDERGROUND CONDUIT AND PULLSTRING FROM HOTWELL CABINET. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP BENEATH ELECTRICAL PANEL. REFER PANEL SCHEDULE.
- PROVIDE (1) 3/4" CONDUIT AND PULLSTRING FOR OLO PRINTER TO STICKER PRINTER. CONDUIT AND PULLSTRING TO RUN FROM OLO PRINTER & SCANNER TO TABLET & STICKER PRINTER. STUB-UP THROUGH WALL.
- PROVIDE J-BOX AND CONDUIT TO 6" ABOVE CEILING (AT B.O.H. AREA FOR GREASE ALARM SYSTEM. PROVIDE PULL STRING BETWEEN TWO J-BOXES.

NO UNDER SLAB ELECTRICAL WORK ALLOWED UNLESS OTHERWISE NOTED ON PLAN.



ALL 120 VOLT, 20 AMP RECEPTACLES LOCATED UNDER COUNTERS WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

Legend			
Description	Quantity	Unit	
26: 2-GANG J-BOX	1	Count	
26: 2#10, 1#10 GND CU WIRE SERVICE FOR RECEPTACLE	32.43	ft	
26: 2#12, 1#12 GND CU WIRE SERVICE FOR EQUIPMENT	144.92	ft	
26: 2#12, 1#12 GND CU WIRE SERVICE FOR RECEPTACLE	148.03	ft	
26: 2#12, 1#12 GND CU WIRE SERVICE FOR RECEPTACLE	465.07	ft	
26: 23#4, 1#8 GND CU WIRE SERVICE FOR EQUIPMENT, 1" c	17.29	ft	
26: 100AS/3-POLE NF DISCONNECT SWITCH	1	Count	
26: COMBO DATA/TELE OUTLET	1	Count	
26: COUNTER MOUNTED SWITCH	3	Count	
26: DATA OUTLET	5	Count	
26: DUPLEX RECEPTACLE	11	Count	
26: DUPLEX RECEPTACLE-GFCI	12	Count	
26: HOOD CONTROL SWITCH	1	Count	
26: JUNCTION BOX-WP	2	Count	
26: JUNCTION BOX WITH MOTOR RATED SWITCH	2	Count	
26: JUNCTION BOX	16	Count	
26: QUAD RECEPTACLE	5	Count	
26: SHOW WINDOW RECEPTACLE	4	Count	
26: SIMPLEX RECEPTACLE-GFI	7	Count	
26: SIMPLEX RECEPTACLE	9	Count	
26: SPECIAL PURPOSE RECEPTACLE	2	Count	
26: TELEPHONE OUTLET	2	Count	

- VERIFY ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATES ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER, CASH REGISTER (81, & 86, OR 87A, & 81) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- NOT USED.

POWER PLAN KEY NOTES 3

NOT TO SCALE E-100

POWER PLAN GENERAL NOTES 2

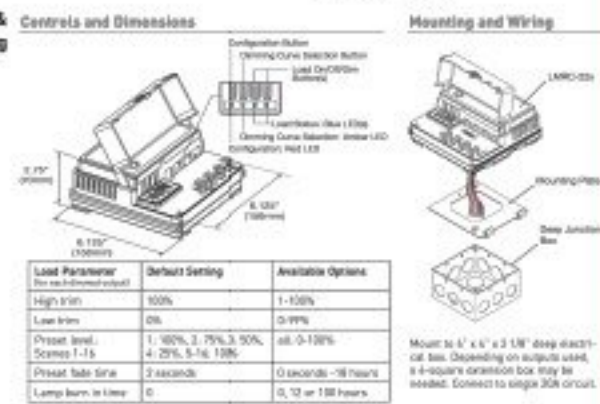
NOT TO SCALE E-100

POWER FLOOR PLAN 1

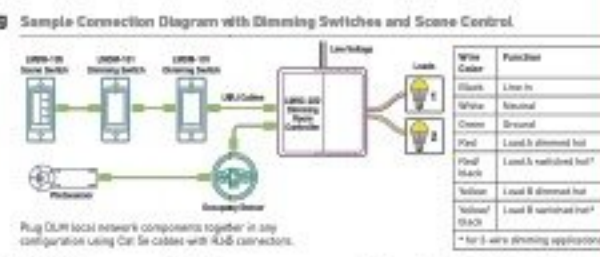
Scale: 1/4"=1'-0" E-100

- Specifications**
- Input/output voltage: 120/277VAC, 50/60Hz
 - Maximum 30A combined load per form
 - Construction: each output individually fused (in)
 - 20A: tungsten, MSX, ETL or LED forward phase compatible transformers (industrial)
 - 15A: 2-wire fluorescent or incandescent ballast (electronic or magnetic dimming ballast or 3-wire fluorescent (electronic dimming ballast))
 - Minimum load: 18W
 - Dimmer 3 input to 0-10V dimmer: 24VDC, up to 250mA across 4 RJ45 ports
 - ULM local network parameters:
 - Maximum current: 800mA
 - Current: each output individually fused (in) up to 1,000 mA
 - Up to 48 loads
 - Up to 48 communicating devices
 - Maximum 4 LMPD-100, LMP-121 or LMP-100 Series Room Controllers
 - Operating conditions: for indoor use only
 - 30-131°F (0-50°C) 5-95% RH, non-condensing
 - UL and cUL listed
 - FCC part 15 compliant
 - Five year warranty

Controls & Mounting



Connecting

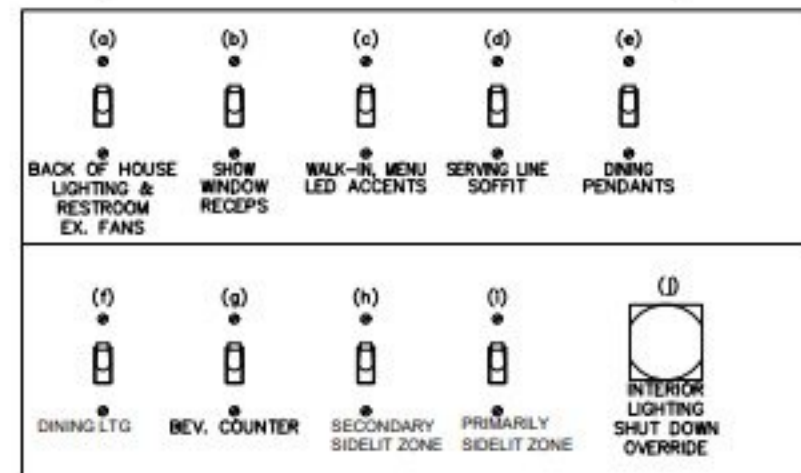


Pub. No. 30002 rev. 7/2018

NOTE:
ALL SWITCHES/DEVICES TO BE STANDARD SINGLE POLE. DO NOT USE "DECORA" TYPE SWITCH/DEVICE

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCK ARE SHOWN ON DETAIL 11/E400

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPARATE INDIVIDUAL BOXES FOR EACH SWITCH



TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	DIMMING SWITCH	BACK-OF-HOUSE / RR FANS	C-2	627 VA
b	DIMMING SWITCH	SHOW WINDOW RECEPT	C-3	360 VA
c	DIMMING SWITCH	W.I. MENU, LED ACCENTS	C-6	100 VA
d	DIMMING SWITCH	SERVING LINE SOFFIT	C-4	112 VA
e	DIMMING SWITCH	PENDANT LTG	C-4	49 VA
f	DIMMING SWITCH	DINING LTG	C-4	42 VA
g	DIMMING SWITCH	BEVERAGE COUNTER	C-4	98 VA
h	LOW VOLT SWITCH	SECONDARY SIDELIT ZONE	C-4	28 VA
i	LOW VOLT SWITCH	PRIMARY SIDELIT ZONE	C-4	84 VA
j	TIME SWITCH	INTERIOR LIGHTING SHUT DOWN OVERRIDE	C-2	10 VA

LIGHTING SWITCHBANK SCHEDULE 4

NOT TO SCALE E-101

LIGHTING GENERAL NOTES 2

NOT TO SCALE E-101

- DIMMINGBANK 'A'. REFER TO SCHEDULE THIS SHEET (4/ E-101).
- ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE (4/ E-101) FOR MORE INFORMATION.
- ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M' FOR CIRCUIT POWER. REFER TO DETAILS, SHEETS 3/ E-401.
- PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
- DUPLEX RECEPTACLE AT SOFFIT FOR LED ROPE. INSTALL ON BACK OF BULKHEAD ABOVE CEILING. REFER TO DETAILS, SHEET A-403 FOR MORE INFORMATION.
- WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, SHEET 8/ E-400.
- WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', SHEET 10/ E-400.
- REFER TO 'EXHAUST FAN CONTROL DIAGRAM', SHEET 5/ E-400, FOR MORE INFORMATION.
- FIXTURES THIS ROOM SHALL BE LOCALLY SWITCHED.
- LIGHTING INVERTER TO BE MOUNTED ABOVE THE ELECTRICAL PANELS, NEXT TO CEILING. COORDINATE THE EXACT LOCATION IN THE FILED W/OWNER.
- LED TRANSFORMER LOCATION, MOUNT ABOVE CEILING PER MANUFACTURE'S RECOMMENDATIONS.
- NOT USED.
- NOT USED.
- NOT USED.

LIGHTING KEY NOTES 3

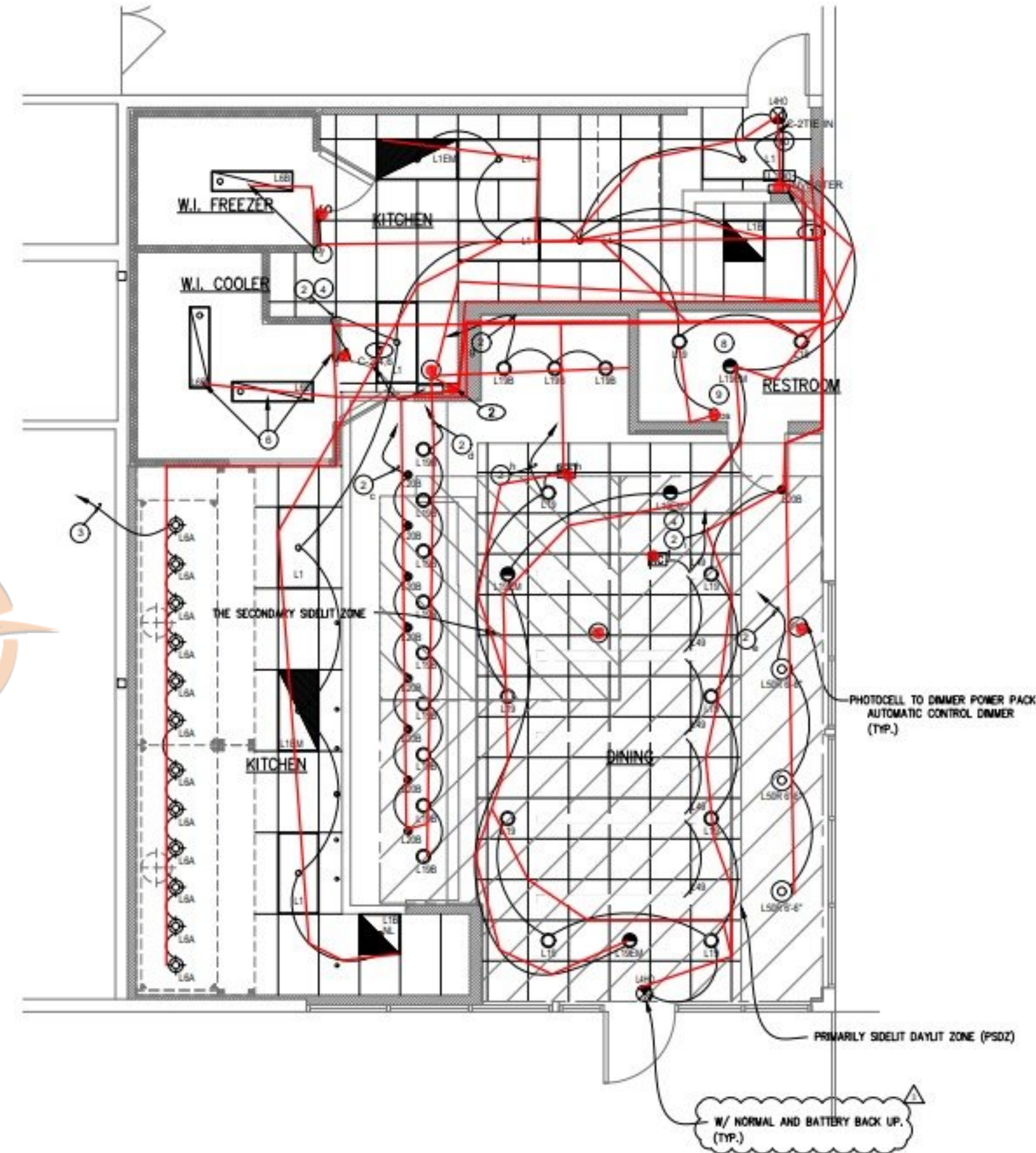
NOT TO SCALE E-101

KEY NOTES:

- LIGHTING CONTACTOR AND TIME SWITCH. SEE LIGHTING SHUT-OFF CONTROL DIAGRAM IN THIS SHEET.
- 0-2 HOURS OVERRIDE TIME SWITCH.
- VIA LIGHTING CONTACTOR, PROVIDE ADDITIONAL HOT LINE FOR EXIT SIGN AND EMERGENCY LIGHTING.
- 365 DAY PROGRAMMABLE TIMER WITH 10 HOUR BATTERY BACK UP, C.E.C. CERTIFIED.

LIGHTING SHUT-OFF CONTROL DIAGRAM

- ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS WITH 20% OR LESS THD.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE INSTALLATION.
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-18(C). SEE DETAIL, SHEET 4/ E-400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- G.C. SHALL INSTALL OWNER SUPPLIED LED & CUT TO PROPER LENGTH
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- ALL FLUORESCENT FIXTURES SHALL HAVE INTEGRAL DISCONNECTING MEANS PER 2005 NEC 410.73(G) AND 2008 NEC 410.130(G)(1).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.
- EGRESS ILLUMINATION LEVEL WILL MEET OR EXCEED PROVISIONS OF CBC 1006.2.



ROOM CONTROLLER W/ 0-10V DIMMING PACK.

LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101



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E-101

LIGHTING FLOOR PLAN

BID SET 05/23/24

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- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0" OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

- ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING CONTACTOR SCHEDULE, 4/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
- DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY. WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
- CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
- REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
- STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
- PROVIDE OUTLET WITH RED DOT INUSE COVER AT PARAPET +24" ABOVE ROOF FOR HEAT TAPE. HEAT TAPE PROVIDED BY OTHERS.
- DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
- NOT USED.
- STUB ELECTRICAL FEED FOR EF-1 & EF-2. THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS. IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
- ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
- UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

ROOFTOP EQUIPMENT SCHEDULE

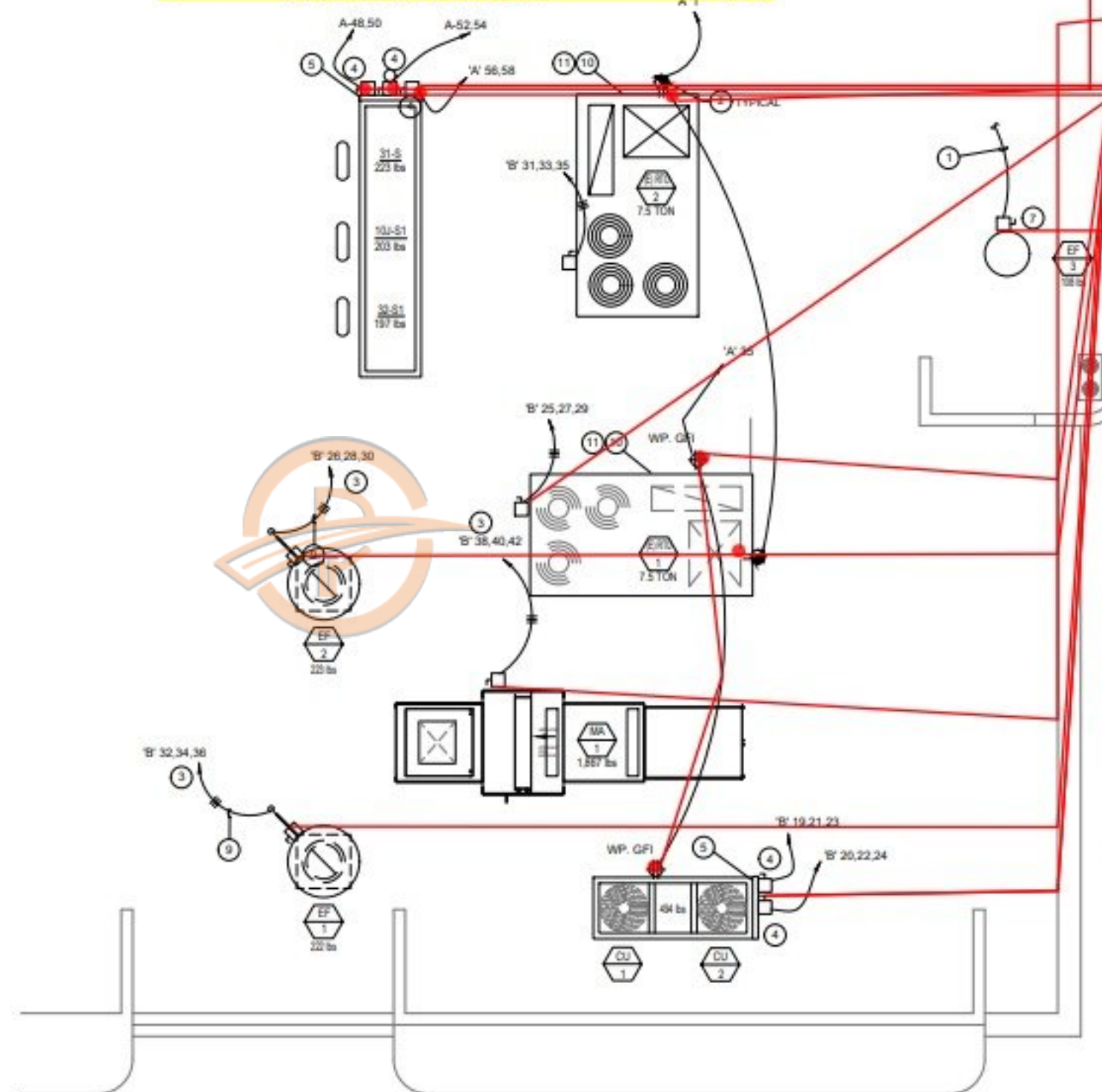
TAG	DESCRIPTION	KW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RCK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
RTU1	A/C UNIT			39	208V/3Ø	3 #6, #10 GND., 1" C.		AT UNIT	60A 3P. 3F. WP (1)(4)
RTU2	A/C UNIT			39	208V/3Ø	3 #6, #10 GND., 1" C.		AT UNIT	60A 3P. 3F. WP (1)(4)
MA-1	MAKE-UP AIR UNIT	5	17.5	208V/3Ø	3 #10, #12 GND., 3/4" C.			AT UNIT	30A 3P. 3F. WP (1)(4)
CU-1	MAKE-UP AIR UNIT COIL		16	208V/3Ø	3 #10, #12 GND., 3/4" C.			AT UNIT	30A 3P. 3F. WP (1)(4)
CU-2	MAKE-UP AIR UNIT COIL		16	208V/3Ø	3 #10, #12 GND., 3/4" C.			AT UNIT	30A 3P. 3F. WP (1)(4)
EF-1	EXHAUST FAN	3	11	208V/3Ø	3 #10, #12 GND., 3/4" C.			AT UNIT	30A 3P. 3F. WP (1)(4)
EF-2	EXHAUST FAN	3	11	208V/3Ø	3 #10, #12 GND., 3/4" C.			AT UNIT	30A 3P. 3F. WP (1)(4)
EF-3	EXHAUST FAN		4.3	120V/1Ø	2 #12, #12 GND., 3/4" C.			AT UNIT	30A 3P. 1F. WP (1)(4)
31-S	W/ COOLER COND.		27.0	208V/1Ø	2 #10, #10 GND., 3/4" C.			AT UNIT	30A 2P. 2F. WP (2)(3)
32-S1	W/ FREEZER COND.		32.0	208V/1Ø	2 #8, #8 GND., 3/4" C.			AT UNIT	30A 3P. 2F. WP (2)(3)
10J-S1	ICE MACHINE COND.		11.7	208V/1Ø	2 #12, #12 GND., 3/4" C.			AT UNIT	30A 3P. 2F. WP (2)(3)

- DISCONNECT SWITCH PROVIDED WITH UNIT.
- COMBINATION 3Ø, 2P, 2F, WP DISCONNECT SWITCH WITH RKS FUSES PER MANUFACTURER RECOMMENDATION.
- COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.
- ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104

Legend	Description	Quantity	Unit
✓	2Ø, 2#8, 1#10 GND. CU WIRE SERVICE FOR EQUIPMENT	116.84	ft
✓	2Ø, 2#12, 1#12 GND. CU WIRE SERVICE FOR RECEPTACLE	52.85	ft
✓	2Ø, 3#6, 1#10 GND. CU WIRE SERVICE FOR EQUIPMENT, 1" C.	84.89	ft
✓	2Ø, 3#10, 1#12 GND. CU WIRE SERVICE FOR EQUIPMENT, 3/4" C.	282.68	ft
●	2Ø, 20AMP, 2-POLE NON-FUSED DISCONNECT SWITCH-WP	1	Count
●	2Ø, 35AMP, 2-POLE NON-FUSED DISCONNECT SWITCH-WP	1	Count
●	2Ø, 40AMP, 2-POLE NON-FUSED DISCONNECT SWITCH-WP	1	Count
●	2Ø, DUCT SMOKE DETECTOR	2	Count
●	2Ø, DUPLEX RECEPTACLE-GFI-WP	2	Count



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PANDA EXPRESS

19339 VICTORY BLVD, UNIT 101
RESEDA, CA 91335

E-104

ROOF POWER PLAN

ROOF POWER PLAN 1

1/4" = 1'-0" E-104

BID SET 05/23/24

BID SET 05/23/24



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.796.9896
Facsimile: 626.372.8288

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REVISIONS:

1	BUILDING COMMENTS	03-18-24
2	HEALTH COMMENTS	03-18-24
3	MEP COMMENTS	03-18-24
4	PX REVISIONS	03-18-24

ISSUE DATE:

1ST SUBMITTAL	11-06-23
2ND SUBMITTAL	03-18-24
BID SET	05-23-24

DRAWN BY: RR/JH

PANDA PROJECT #: S4-25-D25363
PANDA STORE #: -
ARCH PROJECT #: 23-110



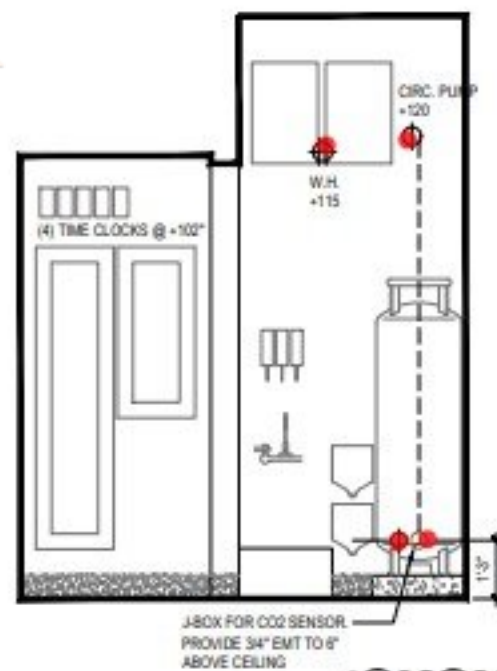
1000 Corporate Center Dr., Suite 100
Menlo Park, CA 94025
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PANDA EXPRESS

19339 VICTORY BLVD, UNIT 101
RESEDA, CA 91335

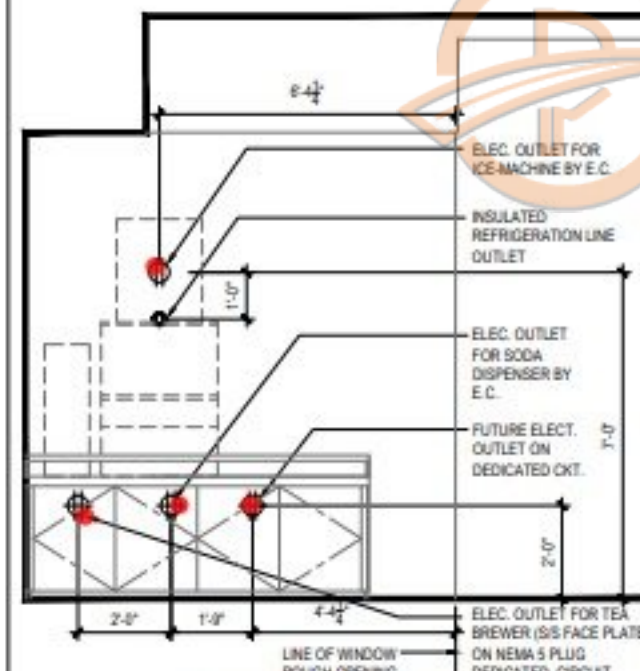
E-200
ELECTRICAL ELEVATIONS

BID SET 05/23/24

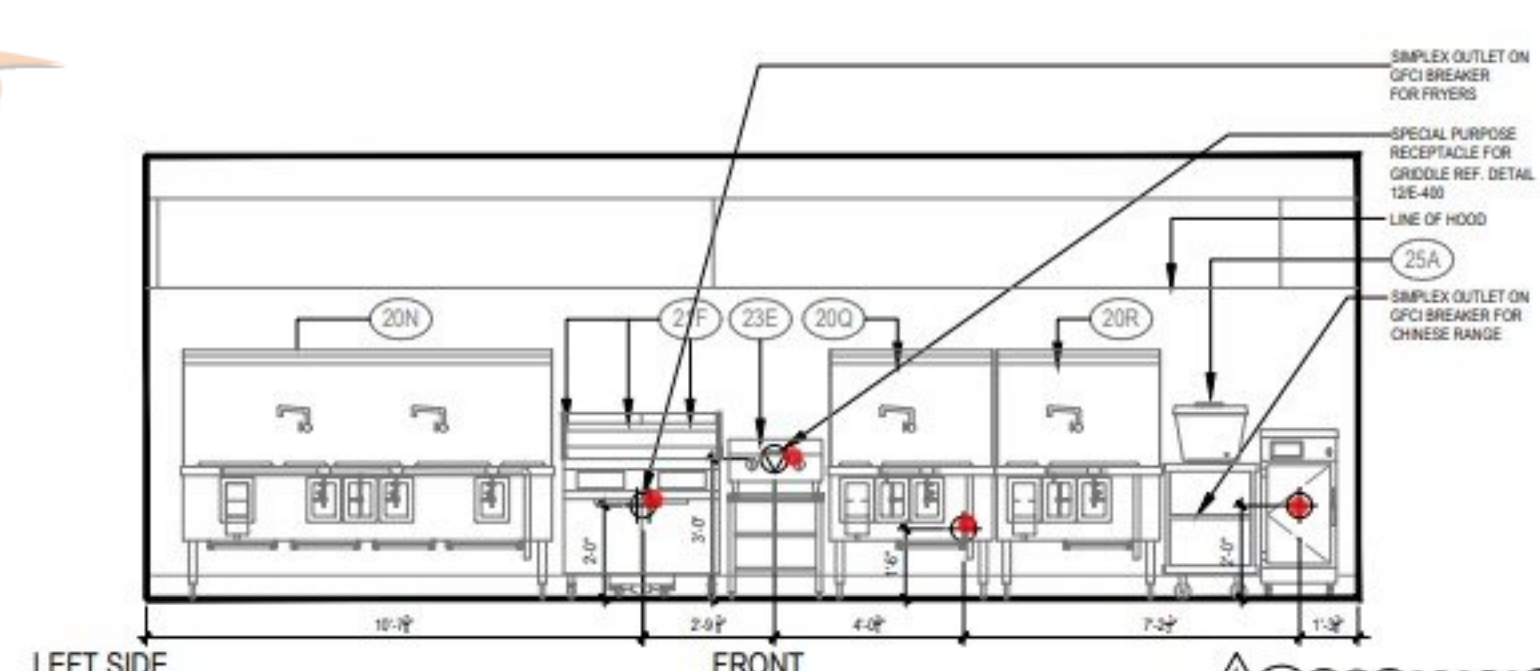


B.O.H AREA 9
Scale= 3/8" = 1'-0" E-200

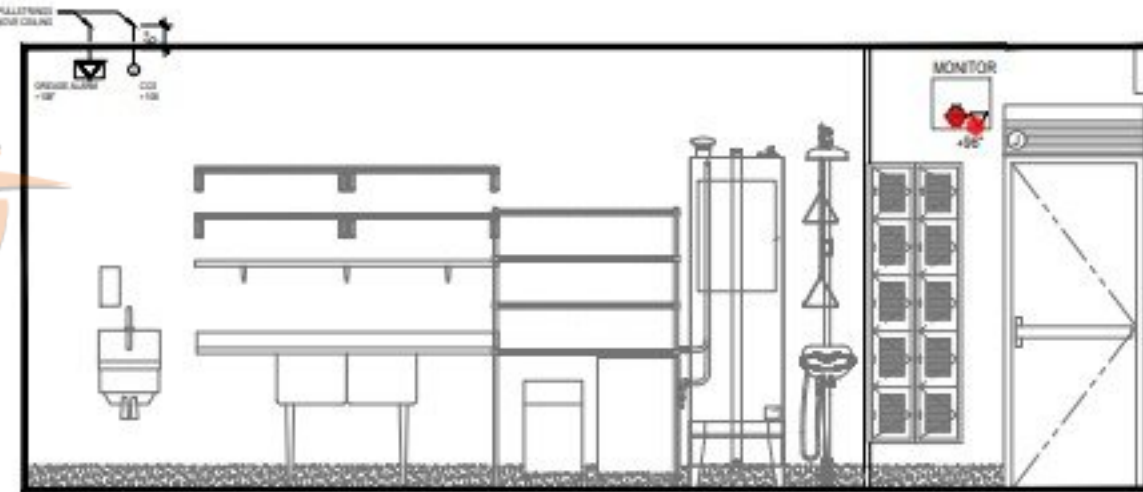
NOT USED -
Scale= NOT USED E-200



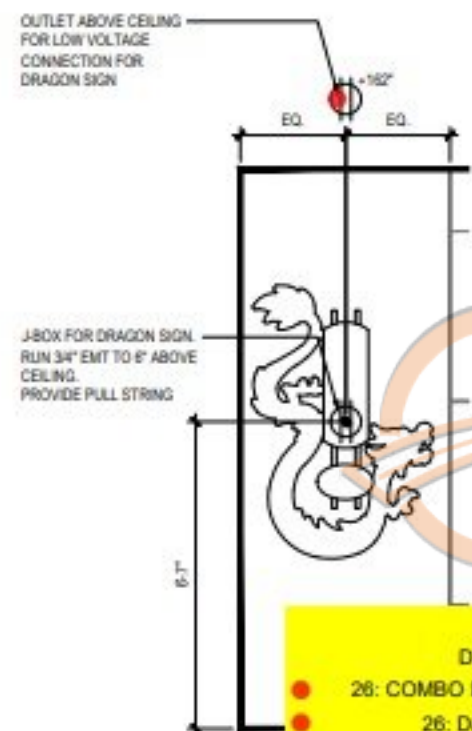
BEVERAGE STATION 5
Scale= 3/8" = 1'-0" E-200



COOKLINE 3
Scale= 3/8" = 1'-0" E-200



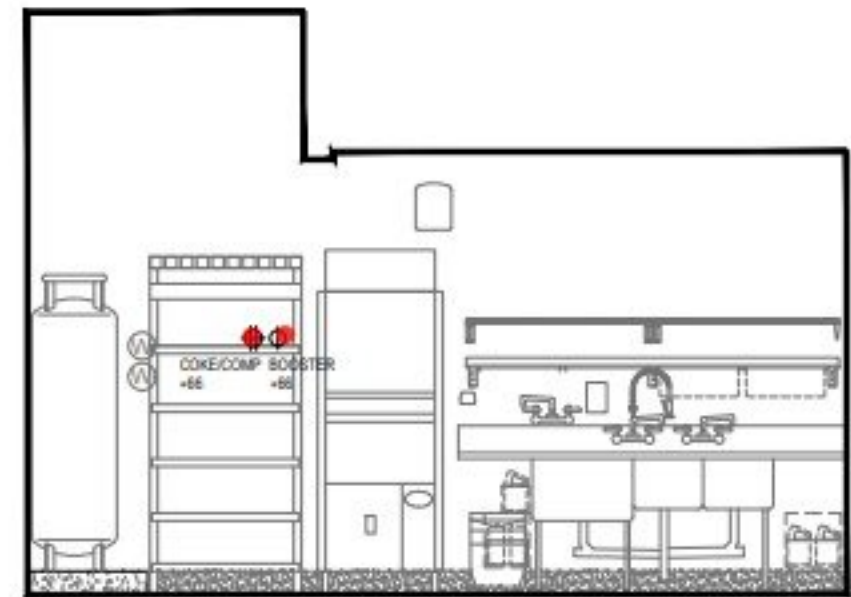
REAR DOOR 8
Scale= 3/8" = 1'-0" E-200



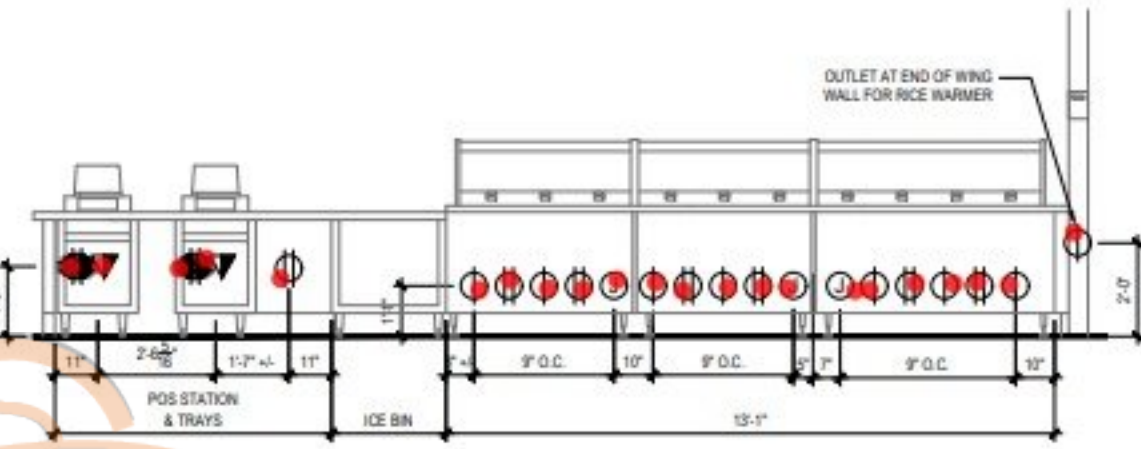
DRAGON SIGN
Scale= 3/8" = 1'-0" E-200

Legend

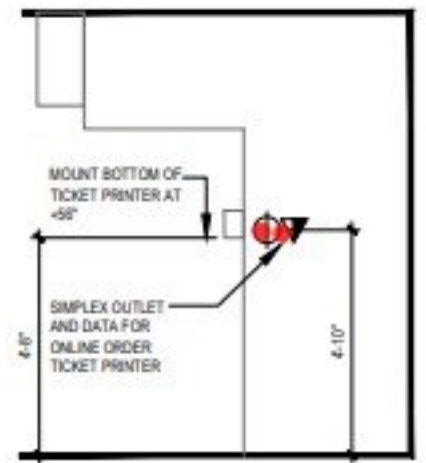
Description	Quantity	Unit
26: COMBO DATA TELE OUTLET	3	Count
26: DATA OUTLET	1	Count
26: DUPLEX RECEPTACLE	12	Count
26: JUNCTION BOX	14	Count
26: QUAD RECEPTACLE	9	Count
26: SIMPLEX RECEPTACLE - GFI	1	Count
26: SIMPLEX RECEPTACLE	14	Count
26: SPECIAL PURPOSE RECEPTACLE	1	Count
26: TELEPHONE OUTLET	1	Count



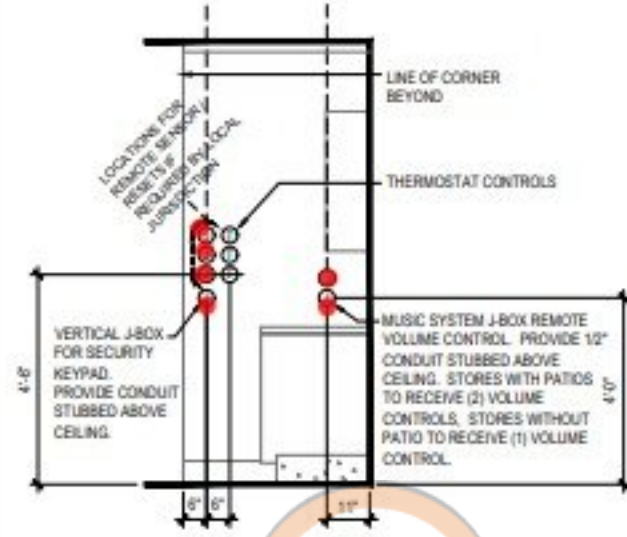
WATER HEATERS 8
Scale= 3/8" = 1'-0" E-200



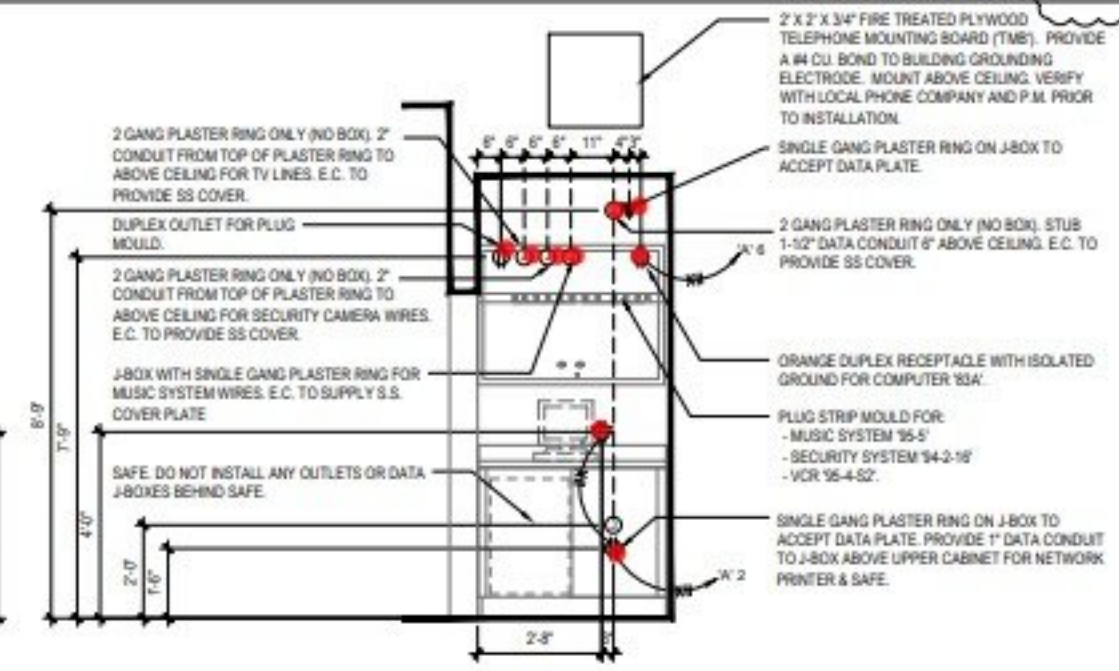
SERVICE COUNTER 6
Scale= 3/8" = 1'-0" E-200



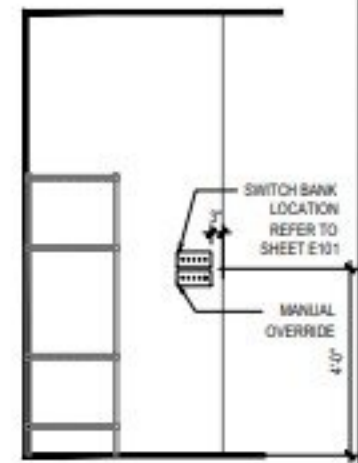
TICKET PRINTER 4
Scale= 3/8" = 1'-0" E-200



LEFT SIDE



FRONT



SWITCH BANK ELEVATION

MANAGER'S STATION/SWITCH BANK ELEVATIONS 1
Scale= 3/8" = 1'-0" E-200

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

VOLTAGE(V)	120	208	3PH	4W	BUS 225 (A)	MAIN CB	600V	SERIES RATED AIC	65,000 (A)	MTD	FLUSH
DESCRIPTION	A	B	C	CODE	LTG	REC	MTD	CODE	A	B	C
PANEL A	18072	18072					1	200/3	1	1287	1287
							2	200/3	1	1287	1287
							3	200/3	1	1287	1287
							4	200/3	1	1287	1287
							5	200/3	1	1287	1287
							6	200/3	1	1287	1287
							7	200/3	1	1287	1287
							8	200/3	1	1287	1287
							9	200/3	1	1287	1287
							10	200/3	1	1287	1287
							11	200/3	1	1287	1287
							12	200/3	1	1287	1287
							13	200/3	1	1287	1287
							14	200/3	1	1287	1287
							15	200/3	1	1287	1287
							16	200/3	1	1287	1287
							17	200/3	1	1287	1287
							18	200/3	1	1287	1287
							19	200/3	1	1287	1287
							20	200/3	1	1287	1287
							21	200/3	1	1287	1287
							22	200/3	1	1287	1287
							23	200/3	1	1287	1287
							24	200/3	1	1287	1287
							25	200/3	1	1287	1287
							26	200/3	1	1287	1287
							27	200/3	1	1287	1287
							28	200/3	1	1287	1287
							29	200/3	1	1287	1287
							30	200/3	1	1287	1287
							31	200/3	1	1287	1287
							32	200/3	1	1287	1287
							33	200/3	1	1287	1287
							34	200/3	1	1287	1287
							35	200/3	1	1287	1287
							36	200/3	1	1287	1287
							37	200/3	1	1287	1287
							38	200/3	1	1287	1287
							39	200/3	1	1287	1287
							40	200/3	1	1287	1287
							41	200/3	1	1287	1287
							42	200/3	1	1287	1287
TOTAL CONN. LOAD	110967										
L.C.L. & L.M.	14040	x1.25									
KIT. EQUIP.	0										
REC. REMAINDER	0										
OTHERS LOAD	0										
TOTAL LOAD	114407										

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

VOLTAGE(V)	120	208	3PH	4W	BUS 225 (A)	MAIN CB	600V	SERIES RATED AIC	65,000 (A)	MTD	FLUSH
DESCRIPTION	A	B	C	CODE	LTG	REC	MTD	CODE	A	B	C
SMOKE DUCT DET.	500						1	200/3	1	1287	1287
HOOD CONT. PH. IN.	500						2	200/3	1	1287	1287
POS.	500						3	200/3	1	1287	1287
W.I. FREEZER	500						4	200/3	1	1287	1287
4D-SI DISPLAY	540						5	200/3	1	1287	1287
S.P.A.R.E.	540						6	200/3	1	1287	1287
PREP TABLE #34A	1440						7	200/3	1	1287	1287
FREEZER #30K	960						8	200/3	1	1287	1287
PREP TABLE #34D	1440						9	200/3	1	1287	1287
ICE MAKER 1014A15	1368						10	200/3	1	1287	1287
SERVICE COUNTER	130						11	200/3	1	1287	1287
TEA DEP.	1600						12	200/3	1	1287	1287
FOOD PROC.	612						13	200/3	1	1287	1287
BOOSTER	564						14	200/3	1	1287	1287
W.I. COOLER	1000						15	200/3	1	1287	1287
CONV.	180						16	200/3	1	1287	1287
ROOF REC.	360						17	200/3	1	1287	1287
S.P.A.R.E.	360						18	200/3	1	1287	1287
GRILL 236	3600						19	200/3	1	1287	1287
	3600						20	200/3	1	1287	1287
	3600						21	200/3	1	1287	1287
	3600						22	200/3	1	1287	1287
	3600						23	200/3	1	1287	1287
	3600						24	200/3	1	1287	1287
	3600						25	200/3	1	1287	1287
	3600						26	200/3	1	1287	1287
	3600						27	200/3	1	1287	1287
	3600						28	200/3	1	1287	1287
	3600						29	200/3	1	1287	1287
	3600						30	200/3	1	1287	1287
	3600						31	200/3	1	1287	1287
	3600						32	200/3	1	1287	1287
	3600						33	200/3	1	1287	1287
	3600						34	200/3	1	1287	1287
	3600						35	200/3	1	1287	1287
	3600						36	200/3	1	1287	1287
	3600						37	200/3	1	1287	1287
	3600						38	200/3	1	1287	1287
	3600						39	200/3	1	1287	1287
	3600						40	200/3	1	1287	1287
	3600						41	200/3	1	1287	1287
	3600						42	200/3	1	1287	1287
	3600						43	200/3	1	1287	1287
	3600						44	200/3	1	1287	1287
	3600						45	200/3	1	1287	1287
	3600						46	200/3	1	1287	1287
	3600						47	200/3	1	1287	1287
	3600						48	200/3	1	1287	1287
	3600						49	200/3	1	1287	1287
	3600						50	200/3	1	1287	1287
	3600						51	200/3	1	1287	1287
	3600						52	200/3	1	1287	1287
	3600						53	200/3	1	1287	1287
	3600						54	200/3	1	1287	1287
	3600						55	200/3	1	1287	1287
	3600						56	200/3	1	1287	1287
	3600						57	200/3	1	1287	1287
	3600						58	200/3	1	1287	1287
	3600						59	200/3	1	1287	1287
	3600						60	200/3	1	1287	1287
	3600						61	200/3	1	1287	1287
	3600						62	200/3	1	1287	1287
	3600						63	200/3	1	1287	1287
	3600						64	200/3	1	1287	1287
	3600						65	200/3	1	1287	1287
	3600						66	200/3	1	1287	1287
	3600						67	200/3	1	1287	1287
	3600						68	200/3	1	1287	1287
	3600						69	200/3	1	1287	1287
	3600						70	200/3	1	1287	1287
	3600						71	200/3	1	1287	1287
	3600						72	200/3	1	1287	1287
TOTAL CONN. LOAD	72991										
L.C.L. & L.M.	0	x1.25									
KIT. EQUIP.	72497										
REC. REMAINDER	3480										
OTHERS LOAD	3614										
TOTAL LOAD	84217										

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

(N) PNL °C															
VOLTAGE (V)	120	208	3PH	4W	BUS 125 (A)	MAIN CB	M.D.	SERIES RATED AIC				65,000 (A)	MTD	FLUSH	
DESCRIPTION	LOAD (VA)			LOAD CODE	OUTLETS	REC	CB	CB	OUTLETS	LOAD	LOAD (VA)			DESCRIPTION	
	A	B	C		LTG	REC	A/P	NO	A/P	LTG	CODE	A	B	C	
SIGN	1200			L	1	20	1	2	1		L	627			KIT. LTG
SHOW WINDOW		800		R			20	3	4	20			441		DINING LTG
								5	6	20		L		100	DISPLAY LTG
								7							
								8							
								9							
								10							
								11							
								12							
								13							
								14							
								15							
								16							
								17							
	1200	800	0									627	441	100	
TOTAL CONN. LOAD				3388 (VA)											
L.C.L. & L.M.				2368	x1.25	2960 (VA)									
KIT. EQUIP.				0	0	(VA) (KW @ 80%)	LOAD				CODE	K	KITCHEN		
REC. = 100kVA				900	900	(VA) (1ST 10 kVA x 100 %)	L				LONG CONT. LOAD				
REC. REMAINDER				0	x0.5	0 (VA)	O				LARGEST MOTOR				
OTHERS LOAD				0	x1	0 (VA)	O				OTHERS				
							R				RECTANGLE				
TOTAL LOAD				3990 (VA) 11 (A)											

DETAILED BREAKDOWN TAKEOFF & ACCURATE PRICING

DETAILED BREAKDOWN OF ITEMS

Prepared for: PANDA EXPRESS

Project ID: 19339 VICTORY BLVD, UNIT 101 RESEDA, CA 91335

Scope: ELECTRICAL

Date: 8/19/2024

TOTAL LABOR HC Hourly rate

641.77 80.00

TOTAL
MATERIAL
COST
\$ 27,025.02



SR #	DESCRIPTION	QUANTIT Y	UNIT	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR HOUR	HOURLY WAGE	LABOR COST	UNIT MAT. COST	MATERIAL COST	SUB COST
DIV-1 GENERAL REQUIREMENTS												
1	Permits	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
2	Supervision and Coordination	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
3	Submittals and Shop Drawings	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
4	Final Cleaning	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
5	Mobilization Costs	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
6	Temporary Control & Facilities	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
7	Scaffolding	1	LS	0%	1	0.000	0.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -
SUBTOTAL											\$ -	
DIV-26 ELECTRICAL												
CONDUIT												
8	3/4" Emt Conduit	1970	LF	10%	2167	0.062	134.35	\$ 80.00	\$ 10,748.32	\$ 1.20	\$ 2,600.40	\$ 13,348.72
9	1" Emt Conduit	35	LF	10%	39	0.080	3.08	\$ 80.00	\$ 246.40	\$ 1.92	\$ 73.92	\$ 320.32
10	2" Emt Conduit	6	LF	10%	7	0.100	0.66	\$ 80.00	\$ 52.80	\$ 2.96	\$ 19.54	\$ 72.34
11	3" Emt Conduit	90	LF	10%	99	0.150	14.85	\$ 80.00	\$ 1,188.00	\$ 3.45	\$ 341.55	\$ 1,529.55
CONDUCTOR												
12	2#12, 1#12 Gnd Cu Wire Service For Lighting	680	LF	10%	748	0.040	29.92	\$ 80.00	\$ 2,393.60	\$ 0.48	\$ 359.04	\$ 2,752.64
13	2#12, 1#12 Gnd Cu Wire Service For Receptacle	730	LF	10%	803	0.040	32.12	\$ 80.00	\$ 2,569.60	\$ 0.48	\$ 385.44	\$ 2,955.04
14	2#12, 1#12 Gnd Cu Wire Service For Equipment	170	LF	10%	187	0.040	7.48	\$ 80.00	\$ 598.40	\$ 0.48	\$ 89.76	\$ 688.16
15	2#10, 1#10 Gnd Cu Wire Service For Receptacle	32	LF	10%	36	0.050	1.78	\$ 80.00	\$ 142.69	\$ 0.63	\$ 22.47	\$ 165.17
16	3#10, 1#12 Gnd Cu Wire Service For Equipment	330	LF	10%	363	0.050	18.15	\$ 80.00	\$ 1,452.00	\$ 0.63	\$ 228.69	\$ 1,680.69
17	2#8, 1#10 Gnd Cu Wire Service For Equipment	130	LF	10%	143	0.062	8.87	\$ 80.00	\$ 709.28	\$ 0.92	\$ 131.56	\$ 840.84
18	3#6, 1#10 Gnd Cu Wire Service For Equipment	95	LF	10%	105	0.068	7.11	\$ 80.00	\$ 568.48	\$ 0.98	\$ 102.41	\$ 670.89
19	4#6, 1#8 Gnd Cu Wire Service From Panel To Panel	5	LF	10%	6	0.068	0.37	\$ 80.00	\$ 29.92	\$ 0.98	\$ 5.39	\$ 35.31
20	3#4, 1#8 Gnd Cu Wire Service For Equipment	17	LF	10%	19	0.075	1.43	\$ 80.00	\$ 114.11	\$ 1.12	\$ 21.30	\$ 135.42
21	4#3/0, 1#6 Gnd Cu Wire Service From Panel To Panel	5	LF	10%	6	0.080	0.44	\$ 80.00	\$ 35.20	\$ 1.24	\$ 6.82	\$ 42.02
22	4#350, 1#1G Cu Wire Service From Main Switchboard To Panel	90	LF	10%	99	0.120	11.88	\$ 80.00	\$ 950.40	\$ 47.52	\$ 4,704.48	\$ 5,654.88
23	Cat5E Cable for Data Outlet	210	LF	10%	231	0.040	9.24	\$ 80.00	\$ 739.20	\$ 0.55	\$ 127.05	\$ 866.25
24	Cat6a Cable for Telephone Outlet	105	LF	10%	116	0.040	4.62	\$ 80.00	\$ 369.60	\$ 0.55	\$ 63.53	\$ 433.13
25	Cat5e/Cat6a Cable For data/tele outlet	145	LF	10%	160	0.047	7.50	\$ 80.00	\$ 599.72	\$ 0.65	\$ 103.68	\$ 703.40
LIGHTING FIXTURE												
26	Light L1, T-Bar Ceiling Recessed Mounted Led Lighting Fixture, 2' X 4', Elite Fixture: 24-Fpl-BI-Led-3000L/4000L/5000L-Dim10-Mvolt-35K/40K/50K-85,	7	EA	0%	7	1.500	10.50	\$ 80.00	\$ 840.00	\$ -	\$ -	\$ 840.00
27	Light L1B, T-Bar Ceiling Recessed Mounted Led Lighting Fixture, 2' X 4' With Battery Backup, Elite Fixture: 24-Fpl-BI-Led-3000L/4000L/5000L-Dim10-Mvolt-35K/40K/50K-85,	2	EA	0%	2	1.540	3.08	\$ 80.00	\$ 246.40	\$ -	\$ -	\$ 246.40
28	Light L1Em, T-Bar Ceiling Recessed Mounted Led Lighting Emergency Fixture, 2' X 4', Elite Fixture: 24-Fpl-BI-Led-3000L/4000L/5000L, 10Watt	2	EA	0%	2	1.550	3.10	\$ 80.00	\$ 248.00	\$ -	\$ -	\$ 248.00
29	Light L4Hd, Universal Mount Exit Sign, Led Lighted, Exitronix Gvex-U-Bp-Wb-BI-R6	2	EA	0%	2	1.370	2.74	\$ 80.00	\$ 219.20	\$ -	\$ -	\$ 219.20
30	Light L6A, Hood Light, Furnished & Installed By Equipment Supplier	12	EA	0%	12	1.599	19.19	\$ 80.00	\$ 1,535.04	\$ -	\$ -	\$ 1,535.04
31	Light L6B, Walk-In Cooler Fluorescent Light, 120 V 48", Kason Fixture: # 11810Lct400	3	EA	0%	3	1.490	4.47	\$ 80.00	\$ 357.60	\$ -	\$ -	\$ 357.60
32	Light L19, Down Light, Recessed In Ceiling, Elite Housing: Ld6Ic-At Elite Trim: R1631-950L-Dimtr-120-30K-90-R1631-Rt-W-Wh	8	EA	0%	8	1.548	12.38	\$ 80.00	\$ 990.72	\$ -	\$ -	\$ 990.72
33	Light L19B, Down Light, Recessed In Ceiling With Battery Backup, Elite Housing: Ld6Ic-At Elite Trim: R1631-950L-Dimtr-120-30K-90-R1631-Rt-W-Wh	12	EA	0%	12	1.598	19.18	\$ 80.00	\$ 1,534.08	\$ -	\$ -	\$ 1,534.08
34	Light L19Em, Emergency Down Light, Recessed In Ceiling, Elite Housing: Ld6Ic-At Elite Trim: R1631-950L-Dimtr-120-30K-90-R1631-Rt-W-Wh	4	EA	0%	4	1.500	6.00	\$ 80.00	\$ 480.00	\$ -	\$ -	\$ 480.00
35	Light L20B, 4" Adjustable Mr16 Down Light, Recessed In Ceiling, Elite Housing: B14-50-M-120-At-Welite Trim: B1406-Bk	9	EA	0%	9	1.550	13.95	\$ 80.00	\$ 1,116.00	\$ -	\$ -	\$ 1,116.00
36	Light L49, Bronze Swoop Light, Fixture - Tbd	4	EA	0%	4	1.650	6.60	\$ 80.00	\$ 528.00	\$ -	\$ -	\$ 528.00
37	Light L50R, 12" Dia. Pendant, Kai Pendant 2 Bulb: Led Edison Lamp.1173467	3	EA	0%	3	2.000	6.00	\$ 80.00	\$ 480.00	\$ -	\$ -	\$ 480.00
Note: All Lights are furnished by Owner												

\$ 78,367

LIGHTING CONTRO												
38	Hood Control Switch	1	EA	0%	1	0.700	0.70	\$ 80.00	\$ 56.00	\$ 18.00	\$ 18.00	\$ 74.00
39	Pilot Light Switch	2	EA	0%	2	0.800	1.60	\$ 80.00	\$ 128.00	\$ 22.00	\$ 44.00	\$ 172.00
40	365 Days Programmable Timer With 10 Hour Battery Back Up	1	EA	0%	1	4.000	4.00	\$ 80.00	\$ 320.00	\$ 396.00	\$ 396.00	\$ 716.00
41	Override Timer Switch	1	EA	0%	1	0.860	0.86	\$ 80.00	\$ 68.80	\$ 24.00	\$ 24.00	\$ 92.80
42	Dimmingbank 'A' (9-Dimmer Switch)	1	EA	0%	1	1.400	1.40	\$ 80.00	\$ 112.00	\$ 76.00	\$ 76.00	\$ 188.00
43	Occupancy Sensor Switch	1	EA	0%	1	0.950	0.95	\$ 80.00	\$ 76.00	\$ 42.00	\$ 42.00	\$ 118.00
44	Lighting Contactor And Time Switch	1	EA	0%	1	1.000	1.00	\$ 80.00	\$ 80.00	\$ 63.00	\$ 63.00	\$ 143.00
45	Counter Mounted Switch	3	EA	0%	3	0.750	2.25	\$ 80.00	\$ 180.00	\$ 20.00	\$ 60.00	\$ 240.00
46	Photocell	2	EA	0%	2	1.500	3.00	\$ 80.00	\$ 240.00	\$ 144.00	\$ 288.00	\$ 528.00
47	Rc, Relay Controller	2	EA	0%	2	1.230	2.46	\$ 80.00	\$ 196.80	\$ 139.00	\$ 278.00	\$ 474.80
48	L100, Micro Inverter, W/ 90Min Battery Backup, Evenlite #Pwii12Lc	1	EA	0%	1	1.400	1.40	\$ 80.00	\$ 112.00	\$ 189.00	\$ 189.00	\$ 301.00
RECEPTACLES												
49	Simplex Receptacle	23	EA	0%	23	0.500	11.50	\$ 80.00	\$ 920.00	\$ 12.00	\$ 276.00	\$ 1,196.00
50	Simplex Receptacle-Gfi	8	EA	0%	8	0.680	5.44	\$ 80.00	\$ 435.20	\$ 49.00	\$ 392.00	\$ 827.20
51	Duplex Receptacle	23	EA	0%	23	0.550	12.65	\$ 80.00	\$ 1,012.00	\$ 14.00	\$ 322.00	\$ 1,334.00
52	Duplex Receptacle-Gfci	12	EA	0%	12	0.296	3.55	\$ 80.00	\$ 284.16	\$ 65.00	\$ 780.00	\$ 1,064.16
53	Duplex Receptacle-Gfi-Wp	2	EA	0%	2	0.780	1.56	\$ 80.00	\$ 124.80	\$ 72.00	\$ 144.00	\$ 268.80
54	Special Purpose Receptacle	3	EA	0%	3	0.950	2.85	\$ 80.00	\$ 228.00	\$ 46.00	\$ 138.00	\$ 366.00
55	Quad Receptacle	14	EA	0%	14	0.750	10.50	\$ 80.00	\$ 840.00	\$ 28.00	\$ 392.00	\$ 1,232.00
56	Show Window Receptacle	4	EA	0%	4	0.640	2.56	\$ 80.00	\$ 204.80	\$ 20.00	\$ 80.00	\$ 284.80
DISOCNNCT SWITCH												
57	20Amp, 2-Pole Non-Fused Disconnect Switch-Wp	1	EA	0%	1	0.550	0.55	\$ 80.00	\$ 44.00	\$ 34.00	\$ 34.00	\$ 78.00
58	30Amp, 2-Pole, 1F Disconnect Switch - Wp	1	EA	0%	1	0.650	0.65	\$ 80.00	\$ 52.00	\$ 38.00	\$ 38.00	\$ 90.00
59	30Amp, 2-Pole, 2F Disconnect Switch - Wp	3	EA	0%	3	0.740	2.22	\$ 80.00	\$ 177.60	\$ 42.00	\$ 126.00	\$ 303.60
60	35Amp, 2-Pole Non-Fused Disconnect Switch-Wp	1	EA	0%	1	0.880	0.88	\$ 80.00	\$ 70.40	\$ 45.00	\$ 45.00	\$ 115.40
61	40Amp, 2-Pole Non-Fused Disconnect Switch-Wp	1	EA	0%	1	0.950	0.95	\$ 80.00	\$ 76.00	\$ 52.00	\$ 52.00	\$ 128.00
62	60Amp, 3-Pole, 3F Disconnect Switch - Wp	2	EA	0%	2	1.000	2.00	\$ 80.00	\$ 160.00	\$ 60.00	\$ 120.00	\$ 280.00
63	30Amp, 3-Pole, 3F Disconnect Switch - Wp	2	EA	0%	2	0.880	1.76	\$ 80.00	\$ 140.80	\$ 40.00	\$ 80.00	\$ 220.80
64	100As/3-Pole Nf Diconnect Switch	1	EA	0%	1	1.500	1.50	\$ 80.00	\$ 120.00	\$ 122.00	\$ 122.00	\$ 242.00
PANEL & CIRCUIT BREAKER												
65	Panel-A, 120/208V, 225Amp Rated, 3Ph, 4Wire	1	EA	0%	1	22.000	22.00	\$ 80.00	\$ 1,760.00	\$ 2,345.00	\$ 2,345.00	\$ 4,105.00
66	20Amp, 1-Pole Circuit Breaker	42	EA	0%	42	0.550	23.10	\$ 80.00	\$ 1,848.00	\$ 12.00	\$ 504.00	\$ 2,352.00
67	20Amp, 2-Pole Circuit Breaker	3	EA	0%	3	0.600	1.80	\$ 80.00	\$ 144.00	\$ 14.00	\$ 42.00	\$ 186.00
68	35Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.650	0.65	\$ 80.00	\$ 52.00	\$ 22.00	\$ 22.00	\$ 74.00
69	40Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.740	0.74	\$ 80.00	\$ 59.20	\$ 26.00	\$ 26.00	\$ 85.20
70	50Amp, 2-Pole Circuit Breaker	1	EA	0%	1	0.800	0.80	\$ 80.00	\$ 64.00	\$ 34.00	\$ 34.00	\$ 98.00
71	70Amp, 3-Pole Circuit Breaker	1	EA	0%	1	0.920	0.92	\$ 80.00	\$ 73.60	\$ 48.00	\$ 48.00	\$ 121.60
72	Panel-B, 120/208V, 600Amp Rated, 3Ph, 4Wire	1	EA	0%	1	35.000	35.00	\$ 80.00	\$ 2,800.00	\$ 4,899.00	\$ 4,899.00	\$ 7,699.00
73	50Amp, 3-Pole Circuit Breaker	2	EA	0%	2	0.950	1.90	\$ 80.00	\$ 152.00	\$ 42.00	\$ 84.00	\$ 236.00
74	20Amp, 3-Pole Circuit Breaker	2	EA	0%	2	0.750	1.50	\$ 80.00	\$ 120.00	\$ 16.00	\$ 32.00	\$ 152.00
75	30Amp, 3-Pole Circuit Breaker	3	EA	0%	3	0.850	2.55	\$ 80.00	\$ 204.00	\$ 24.00	\$ 72.00	\$ 276.00
76	60Amp, 3-Pole Circuit Breaker	1	EA	0%	1	1.000	1.00	\$ 80.00	\$ 80.00	\$ 48.00	\$ 48.00	\$ 128.00
77	200Amp, 3-Pole Circuit Breaker	1	EA	0%	1	1.500	1.50	\$ 80.00	\$ 120.00	\$ 126.00	\$ 126.00	\$ 246.00
78	Panel-C, 120/208V, 125Amp Rated, 3Ph, 4Wire	1	EA	0%	1	17.100	17.10	\$ 80.00	\$ 1,368.00	\$ 1,690.00	\$ 1,690.00	\$ 3,058.00
79	20Amp, 1-Pole Circuit Breaker	5	EA	0%	5	0.650	3.25	\$ 80.00	\$ 260.00	\$ 12.00	\$ 60.00	\$ 320.00
LOW VOLTAGE DEVICES												
80	2-Gang J-Box	1	EA	0%	1	1.000	1.00	\$ 80.00	\$ 80.00	\$ 65.00	\$ 65.00	\$ 145.00
81	Junction Box	30	EA	0%	30	1.000	30.00	\$ 80.00	\$ 2,400.00	\$ 55.00	\$ 1,650.00	\$ 4,050.00
82	Junction Box-Wp	2	EA	0%	2	1.000	2.00	\$ 80.00	\$ 160.00	\$ 76.00	\$ 152.00	\$ 312.00
83	Junction Box With Motor Rated Switch	2	EA	0%	2	1.000	2.00	\$ 80.00	\$ 160.00	\$ 57.00	\$ 114.00	\$ 274.00
84	Telephone Outlet	3	EA	0%	3	0.616	1.85	\$ 80.00	\$ 147.84	\$ 38.00	\$ 114.00	\$ 261.84
85	Duct Smoke Detector	2	EA	0%	2	1.500	3.00	\$ 80.00	\$ 240.00	\$ 236.00	\$ 472.00	\$ 712.00
86	Combo Data Tele Outlet	4	EA	0%	4	0.660	2.64	\$ 80.00	\$ 211.20	\$ 48.00	\$ 192.00	\$ 403.20
87	Data Outle	6	EA	0%	6	0.616	3.70	\$ 80.00	\$ 295.68	\$ 38.00	\$ 228.00	\$ 523.68
											SUBTOTAL \$	
											78,367	
OVERHEAD AND PROFIT											PROJECTED COST	\$78,367
MATERIAL MARKUPS											20%	\$15,673
TAX											15.0%	\$11,755
SUGGESTED BID											13.0%	\$10,188
												\$115,983

Note:

1. Please verify the Electrical and their prices with owner.
2. Online sources are used for pricing.
3. Prices can vary Depending upon field conditions.

GENERAL SUMMARY

Prepared for: PANDA EXPRESS
Project ID: Panthar National: Maintenance Facility
Scope: ELECTRICAL
No. Of Floors:
Date: 19-Aug-24



BUILDING GSF

DIVISION NO.	DESCRIPTION	TOTAL DIV. COST
1000	GENERAL REQUIREMENT	\$ -
26000	ELECTRICAL	\$ 78,367
TOTAL TRADE COST		\$ 78,367

OVERHEAD AND PROFIT	20%	\$ 15,673.33
MATERIAL MARKUPS	15%	\$ 11,755
TAX	13.000%	\$ 10,188
TOTAL TRADE COST		\$ 115,983