

ELECTRICAL LIGHTING PLAN KEY NOTES:	
CONNECT NEW EMERGENCY AND EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING CONTROLS PER STATE AND LOCAL CODES.	
COORDINATE EXACT LOCATION OF THE SWITCHES WITH OWNER/ARCHITECT.	
PROVIDE TIME CLOCK FOR THE BUILDING SIGNAGE. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION. BASE BID ACCORDINGLY.	
PROVIDE A DISCONNECT SWITCH AT FEEDER OR BRANCH CIRCUIT ENTERS THE SIGN PER NEC. VERIFY EXACT HEIGHT AND LOCATION FOR SIGNAGE POWER WITH ARCHITECTURAL ELEVATIONS, SIGN VENDOR, AND LANDLORD. ROUTE CIRCUIT TO PANEL VIA TIME CLOCK.	
LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE COMPILED AS PER NEC 110.26D.	
INTERCONNECT EXHAUST FANS (F-1, 2, 3 & 4/N) WITH ROOM LIGHTS. E.C. TO COORDINATE WITH MECHANICAL DRAWINGS.	

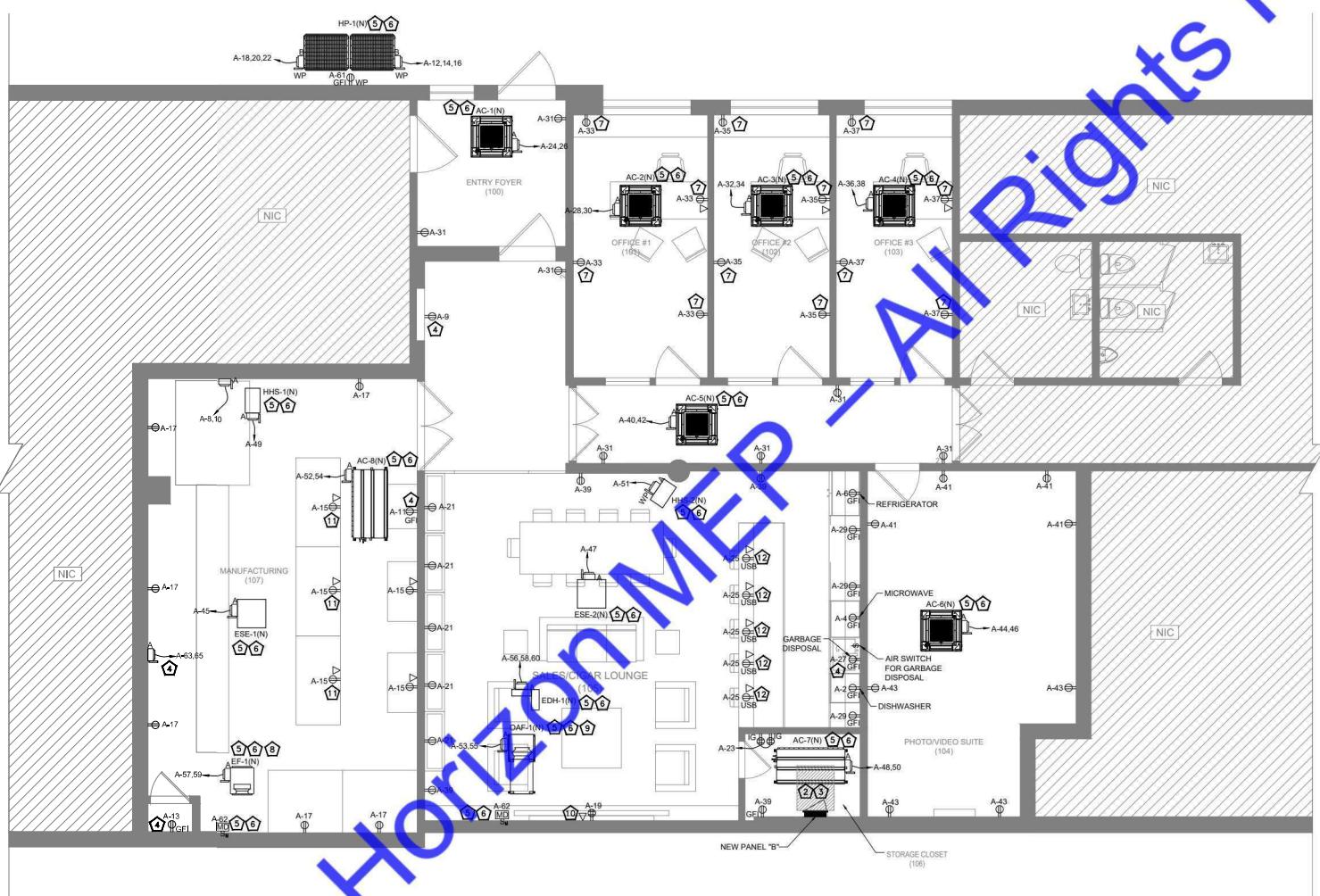
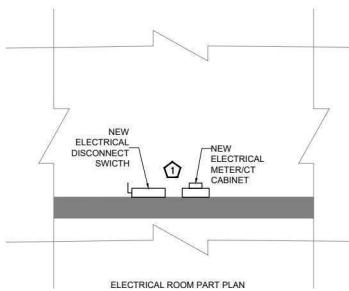
NOTES (APPLY TO ALL FIXTURES WHERE APPLICABLE)	
A. EMERGENCY FIXTURES - ALL FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A 90-MINUTE BATTERY PACK AND ALL FLUORESCENT FIXTURES.	
B. VERIFY VOLTAGES - E.C. SHALL VERIFY VOLTAGES ON DRAWINGS PRIOR TO ORDERING OR ANY WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES IN THE VOLTAGE OF THE CIRCUITING ON THE DRAWINGS AND THE LUMINAIRE SCHEDULE PRIOR TO ANY PURCHASE OR WORK.	
C. VERIFY LAMPING - E.C. SHALL VERIFY LAMPING WITH THE MANUFACTURER PRIOR TO ORDERING AND NOTIFY THE ENGINEER OF ANY LAMPING DISCREPANCIES.	
D. PROVIDE A COMPLETE INSTALLATION - E.C. SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM OVER THE DESIGN INTENT AS DICTATED BY THE SWITCHING TYPE AND LOCATION INCLUDING DIMMER SWITCHES AND COMPATIBLE BALLASTS (OR TRANSFORMERS), CEILING TYPE AND LOCATION, CIRCUITING, VOLTAGES, AND LAMPING TYPES.	

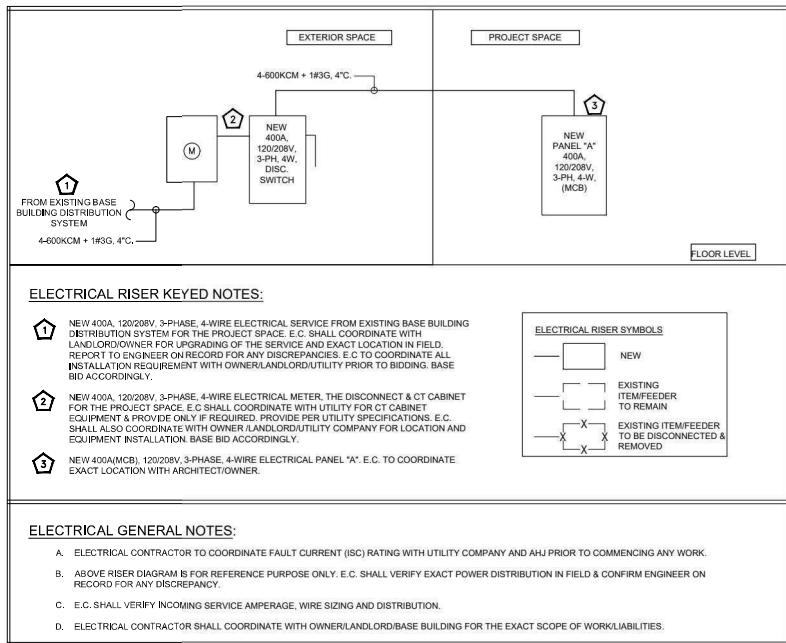
ELECTRICAL LIGHTING PLAN GENERAL NOTES:	
A. CONTRACTOR ARE ADVISED TO UPDATE THE EMERGENCY LIGHT FIXTURE LOCATIONS/QUANTITY PER SITE REQUIREMENT UP ON FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT. ONE FOOT CANDLE OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ALONG ALL WALKWAYS AND EXIT CORRIDORS. EMERGENCY LIGHTS SHALL BE INSTALLED AT ALL INTERSECTIONS, EXIT CORRIDORS, PATHWAYS AND EXIT EGGS OPENINGS IN ACCORDANCE WITH THE BC 1008.3.1 MEANS OF EGRESS ILLUMINATION. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF 90MINUTES AND SHALL CONSIST OF STORAGE BATTERIES.	

Fixture Type	Description	Manufacturer	Model Number	Quantity	Fixture Wattage
A	1X1 LIGHT FIXTURE	TBD	TBD	34	45W
B	SURFACE MOUNT CEILING LIGHT FIXTURE	TBD	TBD	9	75W
C	CHANDELIER DECORATIVE CANDLELABRA LAMPS	TBD	TBD	4	150W
D	PENDANT LIGHT FIXTURE	TBD	TBD	3	75W
E	UNDER CABINET STRIP LIGHTING	TBD	TBD	15FT	2W/FT
EX	EXIT LIGHT FIXTURE WITH EMERGENCY LIGHT COMBO W/ BATTERY BACK-UP	TBD	TBD	5	4W

- ELECTRICAL LIGHTING PLAN KEY NOTES:**
- ① NEW 400A(120/208V, 3-PHASE, 4-WIRE) ELECTRICAL METER, THE DISCONNECT & CT CABINET FOR THE PROJECT SPACE. E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT OWNER. ONLY IF REQUIRED, PROVIDE PER UTILITY SPECIFICATIONS. E.C. SHALL ALSO COORDINATE WITH OWNER LANDLORD/UTILITY COMPANY FOR LOCATION AND EQUIPMENT INSTALLATION. BASE BID ACCORDINGLY.
 - ② NEW 400A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT OWNER.
 - ③ E.C. SHALL VERIFY/PERFORM THE INSTALLATION OF ELECTRICAL PANELS IN COMPLIANCE WITH NEC ARTICLE 110.26(A) AND BY E.C., SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.
 - ④ ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONNECTION TYPE AND POWER REQUIREMENT WITH EQUIPMENT & DISPLAY MANUFACTURER. REPORT ENGINEER ON RECORD FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.
 - ⑤ ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGHIN AND PROVISION OF MECHANICAL UNIT AS REQUIRED TO MAINTAIN NEC CLEARANCES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION OF THE MECHANICAL UNITS IN THE FIELD.
 - ⑥ ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNIT IS FIELD PROVIDED CIRCUIT AND CONTROL, AS REQUIRED.
 - ⑦ E.C. SHALL INTERCONNECT ONE HALF OF EACH DUPLEX RECEPTACLE TO THE ASSOCIATED OCCUPANCY SENSOR OR AUTOMATIC CONTROL DEVICE. RECEPTACLES SHALL BE PERMANENTLY MARKED AND CONTROLLED IN COMPLIANCE WITH ASHRAE 90.1-2013. REFER TO MECHANICAL DRAWINGS FOR THE ENGINEER OF RECORD PRIOR TO BIDDING. BASE BID ACCORDINGLY.
 - ⑧ INTERCONNECT EF-(N) WITH AC-(7) & AC-(8). REFER TO MECHANICAL DRAWINGS FOR THE MORE DETAILS .
 - ⑨ INTERCONNECT OM-(N) WITH AC-(N) TO AC-(N). REFER TO MECHANICAL DRAWINGS FOR THE MORE DETAILS .
 - ⑩ PROVIDE POWER AND DATA CONNECTIONS FOR TELEVISION AT LOCATION STATED. VERIFY EXACT LOCATION AND HEIGHT. BASE BID. COORDINATE WITH LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO BID, ROUGHIN AND INSTALL.
 - ⑪ PROVIDE POWER FOR THE WORKSTATIONS. E.C. SHALL PROVIDE NECESSARY MOUNTING ARRANGEMENT FOR THE OUTLETS IN FIELD PER FIELD CONDITION. BASE BID ACCORDINGLY.
 - ⑫ PROVIDE USB OUTLETS BELOW THE TABLE. E.C. SHALL RUN THE ELECTRICAL CONDUIT ON THE TABLE SUPPORTS FOR THE FIELD CONDITIONS. REFER TO MECHANICAL DRAWINGS FOR MOUNTING PER FIELD CONDITIONS. BASE BID ACCORDINGLY.

- ELECTRICAL FLOOR POWER PLAN GENERAL NOTES:**
- A. GENERAL USE CABLEING SHALL BE #12 AWG MINIMUM AT 120V FOR CABLE UPTO 80 FEET. FOR CABLE ABOVE 80 FEET USE #10 AWG CABLES. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%.
 - B. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR EXACT HEIGHT OF OUTLETS.
 - C. E.C. SHALL VERIFY ANY THIRD PARTY INSPECTION REQUIRED BY THE LOCAL JURISDICTION PRIOR TO BIDDING THIS PROJECT.
 - D. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT U.O.D BY AHJ.
 - E. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENTS, ITS SENSORS AND THERMOSTAT LOCATION.





COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: 1 WEST FOREST AVENUE
Project Type: Alteration

Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Retail	2670	0.84	2243
Total Allowed Watts = 2243			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Retail (2670 sq. ft.)				
LED: A: SPOTLIGHT FIXTURE: Other	1	34	45	1530
LED: B: SURFACE MOUNT CEILING LIGHT FIX: Other	1	9	75	675
LED: C: CHANDELIER DECORATIVE CANDLELABR: Other	1	4	150	Exempt
Exemption:Lighting Sales or Educational Demonstration Systems				
LED: D: PENDANT LIGHT FIXTURE: Other	1	3	75	Exempt
Exemption:Lighting Sales or Educational Demonstration Systems				
LED: E: UNDER CABINET STRIP LIGHTING: Other	1	15	2	30
Total Proposed Watts = 2235				

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building code requirements and is suitable for the permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb used to comply with any applicable mandatory requirements listed in the inspection checklist.

Name - Title Signature Date

Project Title: 1 WEST FOREST AVENUE Report date: 11/09/25
Data filename: Page: 1 of 4

PANEL: [A](N)

208V/120 VOLTS, 3 PHASE, 4 WIRE

MAIN CB 400A MLD: NA BUS: 400A MIN:

NOTE: L: LIGHTING, R : RECEPTACLES, H : HVAC LOAD, M : MOTOR LOAD, E : EQUIPMENT, O : OTHER/MISC. (TYPICAL)

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (kVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (kVA)			LOAD INPUT	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.						
						A	B	B											
1	20	LIGHTING-MANUFACTURING	L	1.00	2#12, #12G, 3/4"	2.20			2#12, #12G, 3/4"	1.20	E	DISHWASHER	20	2					
2	20	LIGHTING-SALES/CIGAR LOUNGE & STORAGE CLOSET	L	1.30	2#12, #12G, 3/4"		2.40		2#12, #12G, 3/4"	1.10	E	MICROWAVE	20	4					
5	20	LIGHTING-PHOTO/VIDEO SUITE & OFFICE 1, 2, 3	L	0.79	2#12, #12G, 3/4"			1.99	2#12, #12G, 3/4"	1.20	E	REFRIGERATOR	20	6					
7	20	BUILDING SIGNAGE	L	1.00	2#12, #12G, 3/4"	2.87			2#12, #12G, 3/4"	1.87	E	AUTOMATIC L-BAR SEALER	30/2P	8					
9	20	RECEPTACLE - DISPLAY LIGHTING	R	1.00	2#12, #12G, 3/4"	2.87			2#12, #12G, 3/4"	1.87	E		10						
11	20	RECEPTACLE - ENGRAVING MACHINE	R	1.00	2#12, #12G, 3/4"			7.12	3#4, #18G, 1"	6.12	H	HP-1(N) DISCONNECT-1	80/3P	12					
13	20	RECEPTACLE - CIGAR AIR PUMP	R	1.00	2#12, #12G, 3/4"			7.20	3#4, #18G, 1"	6.12	H	HP-1(N) DISCONNECT-2	80/3P	14					
15	20	RECEPTACLE - WORK STATION	R	1.08	2#12, #12G, 3/4"			7.20	3#4, #18G, 1"	6.12	H		16						
17	20	RECEPTACLE - MANUFACTURING	R	1.08	2#12, #12G, 3/4"			7.20	3#4, #18G, 1"	6.12	H		18						
19	20	RECEPTACLE - PROJECTOR/TV	R	0.36	2#12, #12G, 3/4"	6.48			3#4, #18G, 1"	6.12	H	HP-1(N) DISCONNECT-2	80/3P	20					
21	20	RECEPTACLE - CIGAR HUMIDOR CASE	R	1.08	2#12, #12G, 3/4"			7.20	3#4, #18G, 1"	6.12	H		22						
23	20	RECEPTACLE - LOW VOLTAGE/SECURITY	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.02	H	AC-1(N)	15/2P	24					
25	20	RECEPTACLE - UNDER COUNTER USB	R	1.08	2#12, #12G, 3/4"	1.10			2#12, #12G, 3/4"	0.00	H		26						
27	20	GARBAGE DISPOSAL	R	0.76	2#12, #12G, 3/4"	0.80			2#12, #12G, 3/4"	0.00	H	AC-2(N)	15/2P	28					
29	20	RECEPTACLE - COUNTER TOP	R	0.54	2#12, #12G, 3/4"			0.56	2#12, #12G, 3/4"	0.03	H		30						
31	20	RECEPTACLE - CORRIDOR	R	1.26	2#12, #12G, 3/4"			0.52	2#12, #12G, 3/4"	0.03	H		32						
33	20	RECEPTACLE - OFFICE 1	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.02	H	AC-3(N)	15/2P	34					
35	20	RECEPTACLE - OFFICE 2	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.02	H	AC-4(N)	15/2P	36					
37	20	RECEPTACLE - OFFICE 3	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.02	H		38						
39	20	RECEPTACLE - SALES/CIGAR LOUNGE & JANITOR CLOSET	R	0.54	2#12, #12G, 3/4"	0.56			2#12, #12G, 3/4"	0.02	H	AC-5(N)	15/2P	40					
41	20	RECEPTACLE - PHOTO/VIDEO SUITE 1	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.02	H		42						
43	20	RECEPTACLE - PHOTO/VIDEO SUITE 2	R	0.72	2#12, #12G, 3/4"	0.85			2#12, #12G, 3/4"	0.13	H	AC-6(N)	15/2P	44					
45	15	ESE-1(N)	H	0.39	2#12, #12G, 3/4"	0.52			2#12, #12G, 3/4"	0.13	H		46						
47	15	ESE-2(N)	H	0.39	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	0.35	H	AC-7(N)	15/2P	48					
49	15	HHS-1(N)	H	0.39	2#12, #12G, 3/4"	0.85			2#12, #12G, 3/4"	0.35	H		50						
51	15	HHS-2(N)	H	0.39	2#12, #12G, 3/4"	0.85			2#12, #12G, 3/4"	0.35	H	AC-8(N)	15/2P	52					
53	20/2P	OAF-1(N)	M	0.63	2#12, #12G, 3/4"			0.98	2#12, #12G, 3/4"	0.35	H		54						
55	20/2P	OAF-2(N)	M	0.63	2#12, #12G, 3/4"			0.98	2#12, #12G, 3/4"	0.59	H		56						
57	20/2P	EF-1(N)	M	0.63	2#12, #12G, 3/4"	7.22		7.22	3#4, #18G, 1"	6.59	H	EDH-1(N)	70/3P	58					
61	20	RECEPTACLE-EXTERIOR	R	0.18	2#12, #12G, 3/4"	0.68		0.05	2#12, #12G, 3/4"	0.00	M	MOTORISED DAMPERS	20	62					
63	20/2P	CONVEYOR BELT	M	0.05	2#12, #12G, 3/4"			0.05	2#12, #12G, 3/4"	0.00	M	SPARE	20	64					
65	20	SPARE							2#12, #12G, 3/4"	0.00	M	SPARE	20	66					
67	20	SPARE							2#12, #12G, 3/4"	0.00	M	SPACE	20	68					
69	20	SPARE							2#12, #12G, 3/4"	0.00	M	SPACE	20	70					
71	20	SPARE							2#12, #12G, 3/4"	0.00	M	SPACE	20	72					
									31.41	30.43		TOTAL CONNECTED LOAD (kVA)							
												LOAD CLASSIFICATION	CONNECTED LOAD (kVA)	DEMAND FACTOR	DEMAND LOAD (kVA)	PANEL TOTAL LOAD			
												TOTAL LIGHTING	L	4.09	125%	5.11	TOTAL CONNECTED LOAD	89.94	KVA
												TOTAL RECEPTACLE	R	14.52	100%	14.52	TOTAL DEMAND LOAD	90.97	KVA
												TOTAL HVAC	H	60.22	100%	60.22	TOTAL DEMAND CURRENT	249.67	AMP
												TOTAL MOTOR	M	3.00	100%	3.00	TOTAL DEMAND CURRENT	252.50	AMP
												TOTAL KITCHEN/EQUIPMENTS	E	8.11	100%	8.11	SYSTEM VOLTAGE	120/208V	
												TOTAL OTHER/MISCELLANEOUS	O	0.00	100%	0.00			
												TOTAL CONNECTED LOAD		89.91					
												TOTAL DEMAND LOAD		91.68					
												TOTAL CONNECTED CURRENT		249.57					
												TOTAL DEMAND CURRENT		254.47					

1 ELECTRICAL RISER DIAGRAM & ENERGY COMPLIANCE
SCALE: N.T.S.

2 ELECTRICAL PANEL SCHEDULE & LOAD SUMMARY
SCALE: N.T.S.