

ELECTRICAL LIGHTING PLAN KEY NOTES:

- ① CONNECT NEW EMERGENCY AND EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING CONTROLS PER STATE AND LOCAL CODES.
- ② COORDINATE EXACT LOCATION OF THE SWITCHES WITH OWNER/ARCHITECT.
- ③ PROVIDE TIME CLOCK FOR THE BUILDING SIGNAGE. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LOCATION. BASE BID ACCORDINGLY.
- ④ PROVIDE A DISCONNECT SWITCH AT FEEDER OR BRANCH CIRCUIT ENTRANCE PER NEC. VERIFY EXACT MOUNTING HEIGHT AND LOCATION FOR SIGNAGE POWER WITH ARCHITECTURAL ELEVATIONS, SIGN VENDOR, AND LANDLORD. ROUTE CIRCUIT TO PANEL VIA TIME CLOCK.
- ⑤ LIGHTING REAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE CONTROLLED AS PER NEC 110.29(D).
- ⑥ INTERCONNECT EXHAUST FANS EF-1, 2, 3 & 4(N) WITH ROOM LIGHTS. E.C. TO COORDINATE WITH MECHANICAL DRAWINGS.

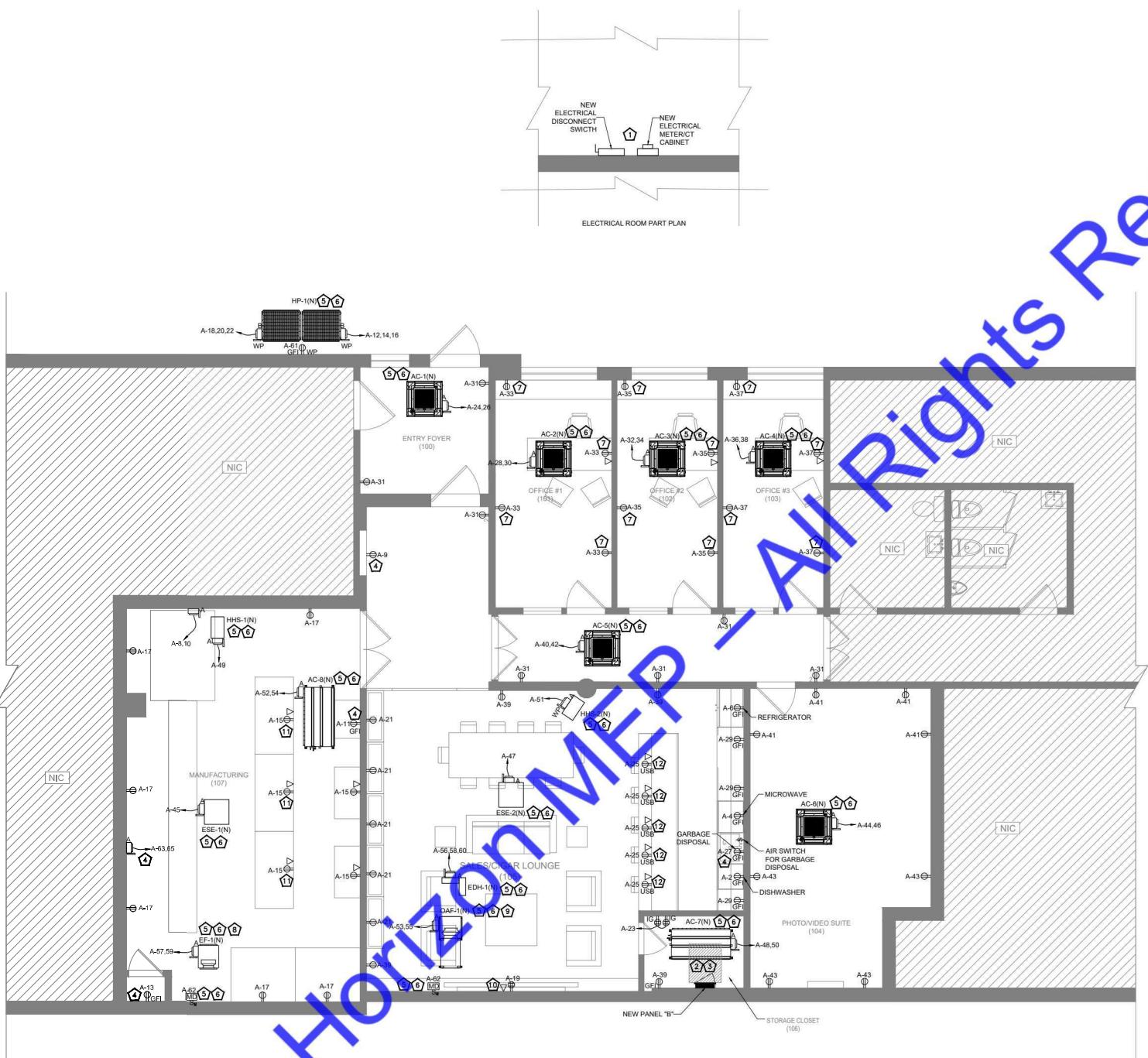
NOTES-(APPLY TO ALL FIXTURES WHERE APPLICABLE)

- 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 ANY DESIGN OR 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 MATERIAL TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM AS DESIGNED AS INDICATED BY THE SWITCHING AND LOCATION PLANS, INCLUDING, BUT NOT LIMITED TO, 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 FIXTURES 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 EGRESS PATHWAYS AND EMERGENCY SIGN SHALL BE INSTALLED AT ALL INTERSECTIONS, EXIT CORRIDORS, PATHWAYS AND STAIRWELL LANDINGS. THE HIGHLIGHTS IN THE 2010 IBC 3.4 MEANS OF EGRESS ILLUMINATION THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF 390MINUTES AND SHALL CONSIST OF STORAGE BATTERIES.

Fixture Type	Description	Manufacturer	Model Number	Quantity	Fixture Wattage
A	1'X4' 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

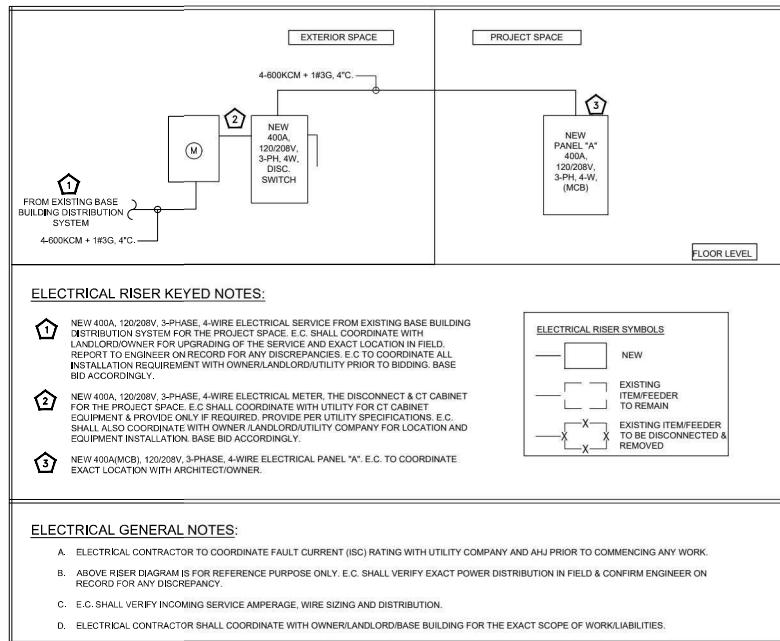


ELECTRICAL LIGHTING PLAN KEY NOTES:

- NEW 400A(120/208V, 3-PHASE, 4-WIRE ELECTRICAL METER, THE DISCONNECT & CT CABINET FOR THE PROJECT SOURCE. E.C. SHALL COORDINATE WITH UTILITY FOR LOCATION OF METER. PROVIDE 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.
- E.C. SHALL VERIFY/PERFORM THE INSTALLATION OF ELECTRICAL PANELS IN COMPLIANCE WITH NEC ARTICLE 110.26(A) AND (B). 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONNECTION TYPE AND POWER REQUIREMENT WITH EQUIPMENT & DISPLAY MANUFACTURER. REPORT ENGINEER ON RECORD FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.
- ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND FIELD. 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNIT IN THE FIELD. FIELD PROVIDE CIRCUIT AND CONTROL AS REQUIRED.
- E.C. SHALL INTERCONNECT ONE HALF OF EACH DUPLEX RECEPTACLE TO THE ASSOCIATED OCCUPANCY SENSOR OR AUTOMATIC CONTROL DEVICE. RECEPTACLES SHALL BE PERMANENTLY MARKED CONTROLLED IN COMPLIANCE WITH ASHRAE 90.1 REQUIREMENTS. E.C. SHALL FIELD VERIFY THAT THE ENGINEER OF RECORD PRIOR TO BIDDING. BASE BID ACCORDINGLY.
- INTERCONNECT EF-(N) WITH AC-7(N) & AC-8(N). REFER TO MECHANICAL DRAWINGS FOR THE MORE DETAILS.
- INTERCONNECT OAF-(N) WITH AC-(N) TO AC-8(N). REFER TO MECHANICAL DRAWINGS FOR THE MORE DETAILS.
- PROVIDE POWER AND DATA CONNECTIONS FOR TELEVISION AT LOCATION SHOWN. VERIFY EXACT REQUIREMENTS PRIOR TO BID. COORDINATE WITH LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO BID. ROUGH-IN AND INSTALL.
- PROVIDE POWER FOR THE WORKSTATIONS. E.C. SHALL PROVIDE NECESSARY MOUNTING ARRANGEMENT FOR THE OUTLETS IN FIELD CONDITION. BASE BID ACCORDINGLY.
- PROVIDE USB OUTLETS BELOW THE TABLE. E.C. SHALL RUN THE ELECTRICAL CIRCUITS ON THE TABLE SUPPORTS FOR THE FIELD CONDITIONS AND MAKE ARRANGEMENT FOR MOUNTING PER FIELD CONDITIONS. BASE BID ACCORDINGLY.

ELECTRICAL FLOOR POWER PLAN GENERAL NOTES:

- GENERAL USE CABLEING SHALL BE #12 AWG MINIMUM AT 120V FOR CABLE UP TO 80 FEET. FOR CABLE ABOVE 80 FEET USE #10 AWG CABLES. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%.
- CONTRACTOR TO COORDINATE WITH ARCHITECT FOR EXACT HEIGHT OF OUTLETS.
- E.C. SHALL VERIFY ANY THIRD PARTY INSPECTION REQUIRED BY THE LOCAL JURISDICTION PRIOR TO BIDDING THIS PROJECT.
- ALL LOW VOLTAGE WIRING TO BE IN CONDUIT U.N.O. BY AHJ.
- 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	
3-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: 1'X4' LIGHT FIXTURE; Other:		1	34	45	1530
LED: B: SURFACE MOUNT CANDLELIGHT FIX; Other:		1	9	75	675
LED: C: SURFACE DECORATIVE CANDLELIGHT; 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 building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.					
Name - Title	Signature				
Project Title: 1 WEST FOREST AVENUE			Report date: 11/09/25		
Data filename:			Page 1 of 4		

PANEL: A(N)								MOUNTING:		REFER TO EL. POWER PLAN (EL. SHEET E)	
208Y/120 VOLTS,		3 PHASE,		4 WIRE				PANEL LOCATION:		REFER TO EL. POWER PLAN (EL. SHEET E)	
MAIN CB 400A		MLD: NA		BUS: 400A		MIN:				FED FROM:	
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)	A	B	B	MINIMUM BRANCH CIRCUIT LOAD (kVA)	LOAD TYPE	DESCRIPTION OF LOAD
1	20	LIGHTING-MANUFACTURING	L	1.00	2#12, #12G, 3/4"	2.20			2#12, #12G, 3/4"	E	DISHWASHER
3	20	LIGHTING-SALESMEN LOUNGE & STORAGE CLOSET	L	1.30	2#12, #12G, 3/4"		2.40		2#12, #12G, 3/4"	E	MICROWAVE
5	20	LIGHTING-PHOTO/VIDEO SUITE & OFFICE	L	0.79	2#12, #12G, 3/4"			1.99	2#12, #12G, 3/4"	E	REFRIGERATOR
7	20	BUILDING SIGNAGE	L	1.00	2#12, #12G, 3/4"	2.87			2#10, #10G, 3/4"	E	
9	20	RECEPTACLE-DISPLAY LIGHTING	R	1.00	2#12, #12G, 3/4"	2.87			2#10, #10G, 3/4"	E	AUTOMATIC L-BAR SEALER
11	20	RECEPTACLE-ENGRAVING MACHINE	R	1.00	2#12, #12G, 3/4"		7.11			H	
13	20	RECEPTACLE-CIGAR AIR PUMP	R	1.00	2#12, #12G, 3/4"	7.12			3#4, #8BG, 1°C	H	HP-1(N) DISCONNECT-1
15	20	RECEPTACLE-WORK STATION	R	1.08	2#12, #12G, 3/4"	7.20			6.12	H	
17	20	RECEPTACLE-MANUFACTURING	R	1.08	2#12, #12G, 3/4"		7.20		6.12	H	
19	20	RECEPTACLE-PROJECTOR/TV	R	0.36	2#12, #12G, 3/4"	6.48			6.12	H	HP-1(N) DISCONNECT-2
21	20	RECEPTACLE-CIGAR HUMIDOR CASE	R	1.08	2#12, #12G, 3/4"		7.20		6.12	H	
23	20	RECEPTACLE-LOW VOLTAGE/SECURITY	R	0.72	2#12, #12G, 3/4"		0.74		6.12	H	
25	20	RECEPTACLE-COUNTER USA	R	0.72	2#12, #12G, 3/4"	1.10			2#12, #12G, 3/4"	H	AC-1(N)
27	20	GARBAGE DISPOSAL	L	0.76	2#12, #12G, 3/4"	0.80			0.02	H	AC-1(N)
29	20	RECEPTACLE-COUNTER TOP	R	0.54	2#12, #12G, 3/4"		0.56		2#12, #12G, 3/4"	H	AC-2(N)
31	20	RECEPTACLE-CORRIDOR	R	1.26	2#12, #12G, 3/4"				0.02	H	AC-2(N)
33	20	RECEPTACLE-OFFICE 1	R	0.72	2#12, #12G, 3/4"	0.74			2#12, #12G, 3/4"	H	AC-3(N)
35	20	RECEPTACLE-OFFICE 2	R	0.72	2#12, #12G, 3/4"		0.74		0.02	H	AC-3(N)
37	20	RECEPTACLE-OFFICE 3	R	0.72	2#12, #12G, 3/4"	0.74			0.02	H	AC-4(N)
39	20	RECEPTACLE-SALES/CIGAR LOUNGE & JANITOR CLOSET	R	0.54	2#12, #12G, 3/4"	0.56			2#12, #12G, 3/4"	H	AC-5(N)
41	20	RECEPTACLE-PHOTO/VIDEO SUITE 1	R	0.72	#12, #12G, 3/4"		0.74		0.02	H	
43	20	RECEPTACLE-PHOTO/VIDEO SUITE 2	R	0.72	#12, #12G, 3/4"	0.85			0.13	H	AC-6(N)
45	15	ESE-1(N)	H	0.39	2#12, #12G, 3/4"	0.52			0.13	H	
47	15	ESE-2(N)	H	0.39	2#12, #12G, 3/4"	0.74			0.35	H	AC-7(N)
49	15	HHS-1(N)	H	0.36	2#12, #12G, 3/4"	0.85			0.35	H	
51	15	HHS-2(N)	H	0.36	2#12, #12G, 3/4"	0.85			0.35	H	
53	20/2P	OAF-1(N)	M	0.62	2#12, #12G, 3/4"		0.98		2#12, #12G, 3/4"	H	AC-8(N)
55	20/2P	SPARE	M	0.62	2#12, #12G, 3/4"	7.22			6.59	H	
57	20/2P	EF-1(N)	M	0.62	2#12, #12G, 3/4"		7.22		3#4, #8BG, 1°C	H	EDH-1(N)
59	20/2P	RECEPTACLE-EXTERIOR	R	0.18	2#12, #12G, 3/4"	0.68			6.59	H	
61	20	RECEPTACLE-INTERIOR	R	0.05	2#12, #12G, 3/4"		0.05		2#12, #12G, 3/4"	M	MOTORIZED DAMPERS
63	20/2P	CONVEYOR BELT	E	0.05	2#12, #12G, 3/4"					SPARE	
65	20	SPARE	E	0.05	2#12, #12G, 3/4"					SPARE	
67	20	SPARE				0.00				SPACE	
69	20	SPARE				0.00				SPACE	
71	20	SPARE				0.00				SPACE	
TOTAL CONNECTED LOAD (kVA)											
LOAD CLASSIFICATION				CONNECTED LOAD (kVA)		DEMAND FACTOR		DEMAND LOAD (kVA)		PANEL TOTAL LOAD	
31.41				30.43		28.10					

LOAD SUMMARY			
LOAD CLASSIFICATION	CONNECTED LOAD (kVA)	DEMAND FACTOR	Demand Load (kVA)
TOTAL LIGHTING	4.06	125%	5.08
TOTAL RECEPTACLE	14.52	100%	14.52
TOTAL HVAC	60.22	100%	60.22
LARGEST MOTOR LOAD	3.00	125%	3.75
TOTAL KITCHEN/EQUIPMENTS	8.11	100%	8.11
TOTAL OTHER/MISCELLANEOUS	0.00	100%	0.00
TOTAL CONNECTED LOAD			89.91 kVA
TOTAL DEMAND LOAD			91.68 kVA
TOTAL CONNECTED CURRENT			249.57 AMP
TOTAL DEMAND CURRENT			254.47 AMP