

Panel Wiring Schedule (3-phase)														
Panelboard "MDP"			Voltage 277/480		Phase 3		Wire 4							
Panel Type WESCO			Mains 200A MCB		Mains Rating 400 A		A/C Rating 65,000							
NEMA Type Enclosure 1			Mounting IFS		Options									
Ckt. No.	Zone/ Note	Load Description	Equip #	Brkr Opts	Brkr Size*	Actual KW	Phase	Actual KW	Brkr Size*	Brkr Opts	Equip #	Load Description	Zone/ Note	Ckt. No.
1		AHU-1		H	35/3	8.540 A	0.000	8.540 B	0.000	----		SPACE		2
						8.540 C	0.000	3.408 A	----					
3		FPVAV-1		H	15/3	3.408 B	----	3.408 C	----			SPACE		4
						3.408 C	----	----	125/3	L				
5		SPACE		----	----	----	A 16.236	----	B 16.598			XFMR		6
						----	C 14.330							
Notes														
* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.														
Actual Load Totals:														
Ph. A 28.184 kw 101.7 A														
Ph. B 28.546 kw 103.0 A														
Ph. C 26.278 kw 94.8 A														
Total 83.008 kw 99.8 A														
(All Phases to be balanced to within 7% using Actual Load Totals.)														
Zone/Note														
Zone - Lighting Control Zones														
Notes - IG = Isolated Ground Circuit														
Breaker Options														
L - Handle lock-on device														
H - Heating, A/C & Refrigeration														
G - Ground Fault Circuit Interrupter														

Panel Wiring Schedule (3-phase)												
Panelboard		"A"	Voltage	120/208		Phase	3		Wire	4		
Panel Type		WESCO	Mains	125A MCB		Mains Rating	225 A		A/C Rating	65,000		
NEMA Type Enclosure		1	Mounting	IFS		Options			Note			
Ckt. No.	Zone/ Note	Load Description	Equip #	Brkr Opts	Brkr Size*	Actual KW	Phase	Actual KW	Brkr Size*	Brkr Opts	Equip #	Zone/ Note
1		STORE NLEM LIGHTS		L	20/1	0.956	A	1.216	20/1	L		2
3	A	STORE FRONT LIGHTS			20/1	0.220	B	0.488	20/1			C 4
5	A	LIGHT BOX			20/1	0.200	C	0.756	20/1			D 6
7	A	STOREFRONT SIGN			20/1	1.200	A	0.756	20/1			C 8
9	C	CABINET LIGHTS			20/1	0.700	B	0.756	20/1			C 10
11	C	CABINET LIGHTS			20/1	0.750	C	0.738	20/1			D 12
13	C	CABINET LIGHTS			20/1	0.550	A	0.702	20/1			C 14
15	C	CABINET LIGHTS			20/1	0.600	B	0.756	20/1			C 16
17	C	CABINET LIGHTS			20/1	0.650	C	0.576	20/1			D 18
19	C	CABINET LIGHTS			20/1	0.700	A	0.576	20/1			D 20
21	C	CABINET LIGHTS			20/1	0.650	B	0.408	20/1			D 22
23	D	FLOORBOX			20/1	0.540	C	0.000	20/1			C 24
25	D	FLOORBOX			20/1	0.540	A	0.000	20/1			C 26
27	D	FLOORBOX			20/1	0.720	B	1.200				A 28
29	D	FLOORBOX			20/1	0.540	C					C 30
31	D	FLOORBOX			20/1	0.540	A					C 32
33	D	TV BACKWRAP			20/1	0.600	B					D 34
35	D	TV BACKWRAP			20/1	0.600	C					D 36
37	D	SPARE			20/1	0.000	A					C 38
39	A	STOREFRONT SIGN			20/1	1.200	B					C 40
41	A	LED GINGHAM			20/1	1.200	C					C 42
Notes												
* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.												
Actual Load Totals: Ph. A 7.736 kw 64.4 A												
Ph. B 8.278 kw 68.9 A												
Ph. C 6.550 kw 54.5 A												
Total 22.564 kw 62.6 A												
(All Phases to be balanced to within 7% using Actual Load Totals.)												
Zone/Note												
Zone - Lighting Control Zones												
Notes - IG = Isolated Ground Circuit												
Breaker Options												
L - Handle lock-on device												
H - Heating, A/C & Refrigeration												
G - Ground Fault Circuit Interrupter												

Panel Wiring Schedule (3-phase)														
Panelboard		"B"	Voltage	120/208	Phase	3	Wire	4						
Panel Type		WESCO	Mains	125A MCB	Mains Rating	225 A	A/C Rating	65,000						
NEMA Type Enclosure		1	Mounting	IFS	Options				ISOLATED GROUND BAR					
Ckt. No.	Zone/ Note	Load Description	Equip #	Brkr Opts	Brkr Size*	Actual KW	Phase	Actual KW	Brkr Size*	Brkr Opts	Equip #	Load Description	Zone/ Note	Ckt. No.
1		SPARE			20/1	0.000	A	2.100	20/2	----	1	DEMO WATER HEATER WH-1	2	1
3		MANAGER'S RECEPTACLE			20/1	0.360	B	2.100	20/1	----				4
5	IG	MANAGER'S IG RECEPTACLE		L	20/1	0.540	C	0.540	20/1	----		SALES AREA RECEPTACLE	6	5
7		BACKWRAP RECEPTACLE			20/1	0.360	A	0.000	20/1	----		SPARE	8	7
9		WALKIE TALKIE			20/1	0.360	B	0.540	20/1	----		SALES AREA RECEPTACLE	10	9
11		MUSIC/SOUND SYSTEM			20/1	0.500	C	0.500	20/1	L	P	CAMERA POWER	12	11
13		(WR) TEMP. CONTROLS		L	20/1	0.500	A	1.500	20/1	L		SECURITY PANEL/MONITOR	14	13
15	IG	CASHWRAP IG		L	20/1	0.900	B	0.500	20/1	L		BURGULAR ALARM	16	15
17		CASHWRAP RECEPTACLE		L	20/1	0.720	C	1.500	20/2	----	4	DEMO WATER HEATER WH-2	18	17
19		NONSALES RECEPTACLE			20/1	1.080	A	1.500	20/2	----				20
21		SPARE			20/1	0.000	B	0.600	20/1	----		DRINKING FOUNTAIN	22	21
23		MICROWAVE			20/1	1.200	C	0.000	20/1	----		SAP	24	23
25		SPARE			20/1	0.000	A	0.360	20/1	----		HVAC RECEPTACLE	26	25
27		(WR) TELEPHONE BOARD		L	20/1	0.360	B	0.000	20/1	----		SPARE	28	27
29	A	A L.L. SYSTEM		L	20/1	0.180	C	2.100	20/2	----	1	DEMO WATER HEATER WH-1	30	29
31		SPARE			20/1	0.000	A	2.100	20/2	----				32
33		REFRIGERATOR			20/1	1.000	B	1.600	20/1	----		PUMP	34	33
35		SPARE			20/1	0.000	C	0.000	20/1	----		SPARE	36	35
37		SPARE			20/1	0.000	A	0.000	20/1	----		SPARE	38	37
39		SPARE			20/1	0.000	B	0.000	20/1	----		SPARE	40	39
41		SPARE			20/1	0.000	C	0.000	20/1	----		SPARE	42	41
Notes														
* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.														
Actual Load Totals:						Ph. A	8.500 kw	70.8 A						
						Ph. B	8.320 kw	69.3 A						
						Ph. C	7.780 kw	64.8 A						
						Total	24.600 kw	68.3 A						
(All Phases to be balanced to within 7% using Actual Load Totals.)														
Zone/Note														
Zone - Lighting Control Zones														
Notes - IG = Isolated Ground Circuit														

TRANSFORMER SUMMARY					120/208V SYSTEM
DESCRIPTION	ACTUAL CONNECTED KW/KVA	N.E.C CONNECTED KW/KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KW/KVA	
LIGHTING	18.484	18.484	1.25	23.105	
TRACK LIGHTING ***	0.000	0.000	0 Amps x 120V	0.000	
SHOW WINDOW LIGHTING **	0.000	0.000	0" x 200w / FT	0.000	
RECEPTACLES	8.640	8.640	1.0 x 10 KW + 0.5 REMAINING KW	8.640	
ELECTRIC WATER HEATER	11.400	11.400	1.0	11.400	
MISCELLANEOUS	7.040	7.040	1.0	7.040	
MOTORS	1.600	1.600	1.0	1.600	
FIXED ELECTRIC HEATING	0.000	0.000	1.0	0.000	
HVAC SYSTEM	0.000	0.000	125% OF LARGEST ***	0.000	
TOTAL	47.164	47.164	CALCULATED PER 2011 NEC	51.785	
NOTES					
* USE GREATER LOAD OF THE TWO CATEGORIES					
** NEC ARTICLE 220-43 REQUIREMENT (200VA / FT OR ACTUAL CONNECTED)					
*** NEC ARTICLE 220-43-(B) EXCEPTION-TOTAL OF ALL CURRENT LIMITING DEVICES					
**** 125% OF THE LARGEST MOTOR OR COMPRESSOR ALREADY INCLUDED IN CATEG ***** A CALC & NEC CONNECTED KW/KVA TOTAL					

N.E.C. DEMAND KVA x 1000		=	MINIMUM FEEDER AMPERAGE
SYSTEM LOAD x 73			
51.785 x 1000			104.9 AMPS
208 x 1.73			