

DISTRIBUTION PANEL: MDP									
LOCATION: ELEC 136				VOLTAGE: 208Y/120 V, 3 ø 4 W.					
MAIN DEVICE: MLO				A.I.C. RATING: 54,000 AMPS SYMMETRICAL					
BREAKER AMPS: 1200 A				SPECIAL:					
BUS AMPS: 1200 AMPS				FED FROM: UTILITY					
SECTION No. 1									
CKT	DESCRIPTION/NAMEPLATE				POLES	RATING	Load	NOTES	
1	LA				3	400 A	99171 VA		
2	LB				3	400 A	92715 VA		
3	LC				3	400 A	93945 VA		
4	LS				3	225 A	55012 VA		
5	SPARE				3	100 A	0 VA		
6	SPARE				3	60 A	0 VA		
7	SPACE				3	--	--		
8	TVSS				3	60 A	0 VA		
LOAD CLASSIFICATION					CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
FIRE ALARM					600 VA	100.00%	600 VA		
HEAT					28492 VA	100.00%	28492 VA		
HVAC					130738 VA	100.00%	130738 VA	340 KVA	
LITES					12551 VA	125.00%	15689 VA	EST. DEMAND LOAD: 322 KVA	
MTR					81064 VA	104.03%	84329 VA	CONN. CURRENT: 942.4 A	
Motor					22824 VA	109.86%	25074 VA	EST. DEMAND CURRENT: 893.0 A	
Other					500 VA	100.00%	500 VA		
RECEPTACLES					63517 VA	57.87%	30759 VA		
Spare					6000 VA	100.00%	6000 VA		
NOTES:									

PANELBOARD: LB													
LOCATION: TOOL 135				VOLTAGE: 208Y/120 V, 3 ø 4 W.									
MOUNTING: SURFACE NEMA1				A.I.C. RATING: 30,000 AMPS SYMMETRICAL									
MAIN DEVICE: 400.0 A MLO				SPECIAL:									
BUS AMPS: 400 AMPS				FED FROM: MDP									
LOAD NAME	NOTE	BKR	P	CKT	A	B	C	CKT	P	BKR	NOTE	LOAD NAME	
APPARATUS BAY...		20 A	1	1	1.0	2.9		2					
APPARATUS BAY...		20 A	1	3			1.0	2.9		3	30 A	OVERHEAD DOOR	
CORD REEL		20 A	1	5				1.5	2.9	6			
CORD REEL		20 A	1	7	1.5	2.9				8			
CORD REEL		20 A	1	9			1.5	2.9		10	3	30 A	
APP. BAY RECEPT.		20 A	1	11				0.5	2.9	12			
APP. BAY RECEPT.		20 A	1	13	0.5	2.9				14			
APP. BAY RECEPT.		20 A	1	15			0.4	2.9		16	3	30 A	
APP. BAY RECEPT.		20 A	1	17				0.4	2.9	18			
TOILET RECEPT.		20 A	1	19	0.5	2.9				20			
AIR COMPRESSOR		60 A	2	21			2.9	2.9		22	3	30 A	
				23					2.9	2.9	24		
TANK FILL		60 A	2	25	4.5	2.9				26			
				27			4.5	2.9		28	3	30 A	
RH-1		20 A	1	29				0.3	2.9	30			
RH-2		20 A	1	31	0.3	2.9				32			
RH-3		20 A	1	33			0.3	2.9		34	3	30 A	
RH-4		20 A	1	35				0.3	2.9	36			
		60 A	3	37	0.0	0.9		0.0	0.9	38			
TVSS				39						40	3	20 A	
				41				0.0	0.9	42			
TOTAL LOAD:					31 kVA	33 kVA	0.0	28 kVA					
TOTAL AMPS:					265 A	278.8 A	236 A						
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS									
HVAC	9792 VA	100.00%	9792 VA										
Motor	14824 VA	115.18%	17074 VA	CONNECTED LOAD: 92715 VA									
RECEPTACLES	7202 VA	100.00%	7202 VA	ESTIMATED DEMAND: 38214 VA									
MTR	58006 VA	104.76%	60768 VA	CONNECTED CURRENT: 257.4 A									
HEAT	1248 VA	100.00%	1248 VA	EST. DEMAND CURRENT: 272.6 A									
LITES	2004 VA	125.00%	2505 VA										
NOTES: SECTION 1 OF 2. PROVIDE FEED THRU LUGS													

PANELBOARD: LC2													
LOCATION:				VOLTAGE: 208Y/120 V, 3 ø 4 W.									
MOUNTING: SURFACE NEMA1				A.I.C. RATING: 30,000 AMPS SYMMETRICAL									
MAIN DEVICE: 400.0 A MLO				SPECIAL:									
BUS AMPS: 400 AMPS				FED FROM: LC									
LOAD NAME	NOTE	BKR	P	CKT	A	B	C	CKT	P	BKR	NOTE	LOAD NAME	
PD RECEPT.		20 A	1	1	0.7	2.1		2					
PD RECEPT.		20 A	1	3		0.5	2.1	4	2	40 A		HP-1	
PD TOILET		20 A	1	5			0.2	2.9	6				
PD FRIDGE	1	20 A	1	7	0.5	2.9		8		2	60 A	HP-2	
PD KITCHEN		20 A	1	9			0.2	1.8	10	2	25 A	HP-3	
PD KITCHEN		20 A	1	11			0.4	1.8	12				
HPUI/ACU-11		25 A	2	13	1.7	4.1		14	2	60 A		AH-1	
				15			1.7	4.1	16				
HPUI/ACU-12		25 A	2	17			1.7	6.1	18	2	80 A	AH-2	
				19	1.7	6.1		20					
MEZZANINE RECEPT.		20 A	1	21		0.5	3.4	22	2	45 A		AH-3	
				23				24					
EWH-1		25 A	2	25	2.0	2.0		26					
				27			0.0	2.0	28	3	25 A	RTU-1	
SPARE		20 A	1	29				0.0	2.0	30			
SPARE		20 A	1	31	0.0	2.7			32				
SPARE		20 A	1	33		0.0	2.7	34	3	40 A		RTU-2	
SPARE		20 A	1	35			0.0	2.7	36				
SPACE	--	--	1	37	--	2.0	--	2.0	38				
SPACE	--	--	1	39	--	2.0	--	2.0	40	3	25 A	RTU-3	
SPACE	--	--	1	41	--	2.0	--	2.0	42				
TOTAL LOAD:					28 kVA	21 kVA	25 kVA						
TOTAL AMPS:					242 A	175.7 A	214 A						
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS									
HVAC	68208 VA	100.00%	68208 VA										
RECEPTACLES	3020 VA	100.00%	3020 VA	CONNECTED LOAD: 74589 VA									
HEAT	4000 VA	100.00%	4000 VA	ESTIMATED DEMAND: 74589 VA									
				CONNECTED CURRENT: 207.0 A									
				EST. DEMAND CURRENT: 207.0 A									
NOTES: SECTION 2 OF 2													
1. PROVIDE GFCI BREAKER.													

PANELBOARD: LA															
LOCATION: ELEC 136					VOLTAGE: 208Y/120 V, 3 ø 4 W.										
MOUNTING: SURFACE NEMA1					A.I.C. RATING: 50,000 AMPS SYMMETRICAL										
MAIN DEVICE: 400.0 A MLO					SPECIAL:										
BUS AMPS: 400 AMPS					FED FROM: MDP										
LOAD NAME	NOTE	BKR	P	CKT	A	B	C	CKT	P	BKR	NOTE	LOAD NAME			
FACP		20 A	1	1	0.6	0.5		2	1	20 A		EXTERIOR RECEPT.			
KH-1		20 A	1	3			1.5	1.0	4	1	20 A	1	DISHWASHER		
LIGHTS		20 A	1	5					6	1	20 A		KITCHEN RCPT.		
LIGHTS		20 A	1	7	1.7	0.4			8	1	20 A		KITCHEN RCPT.		
LIGHTS		20 A	1	9			1.6	0.5	10	1	20 A	1	FRIDGE		
BUNK LIGHTS		20 A	1	11					12	1	20 A	1	FRIDGE		
LOBBY RECEPT.		20 A	1	13	0.7	0.5			14	1	20 A	1	FRIDGE		
TOLLET RECEPT.		20 A	1	15		0.2	1.5		16	1	20 A	2	RANGE		
ELEC RECEPT.		20 A	1	17				0.2	1.5	18	1	20 A		COFFEE MAKER	
MEETING RECEPT.		20 A	1	19	0.9	0.5			20	1	20 A		DAYROOM RECEPT.		
MEETING RECEPT.		20 A	1	21		0.9	0.7		22	1	20 A		DAYROOM RECEPT.		
MEETING LOBBY		20 A	1	23				1.1	0.5	24	1	20 A		VESTRIBULE RECEPT.	
EWIC		20 A	1	25	0.5	0.9			26	1	20 A		DECON RECEPT.		
STORAGE RECEPT.		20 A	1	27			0.5	0.2	28	1	20 A		JANITOR RECEPT.		
WATCH OFFICE		20 A	1	29					0.7	0.4	30	1	20 A		GEAR RECEPT.
WATCH OFFICE		20 A	1	31	0.7	0.5			32	1	20 A		GYM EQUIPMENT		
TOLLET RECEPT.		20 A	1	33			0.2	0.5	34	1	20 A		GYM EQUIPMENT		
RECORDERS		20 A	1	35					0.9	0.5	36	1	20 A		GYM EQUIPMENT
TB		20 A	1	37	0.5	0.5			38	1	20 A		GYM EQUIPMENT		
GYM LIGHTS		20 A	1	39			0.4	0.5	40	1	20 A		GYM EQUIPMENT		
WH-2		20 A	1	41					1.5	0.5	42	1	20 A		GYM EQUIPMENT
WH-3		20 A	1	43	1.5	2.2			44	2	30 A		HPUACU-10		
WH-3		20 A	1	45			1.5	2.2	46	0.0	1.7	48			
RC-1		20 A	1	47					50		2	25 A		HPUACU-11	
TVSS		60 A	3	51			0.0	0.3	52	1	20 A		ACM		
				53					54	1	20 A		ACM		
		TOTAL LOAD:		31 kVA	34 kVA	34 kVA	0.0 kVA								
		TOTAL AMPS:		260 A	286.5 A	287 A									
LOAD CLASSIFICATION	CONNECTED	DEMAND	DEMAND	ESTIMATED	PANEL TOTALS										
H/VAC	36956 VA	100.00	100.00	36956 VA											
Motor	8000 VA	125.00%	10000 VA	CONNECTED LOAD:				99171 VA							
Other	500 VA	100.00%	500 VA	ESTIMATED DEMAND:				92320 VA							
RECEPTACLES	33763 VA	64.80%	21682 VA	CONNECTED CURRENT:				275.3 A							
FIRE ALARM	1000 VA	100.00%	600 VA	EST. DEMAND CURRENT:				256.3 A							
MTR	5078 VA	122.15%	6203 VA												
LITES	4544 VA	100.00%	4544 VA												
H/EAT	6980 VA	125.00%	8725 VA												
NOTES: SECTION 1 OF 2. PROVIDE FEED THRU LUGS															
1. PROVIDE GFCI BREAKER.															
2. PROVIDE SHUNT TRIP TRIP BREAKER WITH GFCI PROTECTIONS.															