

MAIN DISTRIBUTION PANEL - MDP									
1200AMP BUS, 208Y120V. 3-PHASE, 4-WIRE WITH SOLID NEUTRAL. BUS, EQUIPMENT GROUND BUS, MAIN LUGS ONLY. MINIMUM SHORT CIRCUIT RATING OF DISTRIBUTION CENTER AND BREAKERS SHALL BE 24,000 AMPS RMS SYMETRICAL. TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) SHALL BE INSTALLED IN MAIN DISTRIBUTION PANEL. COPPER BUSSING, MANUFACTURER SHALL BE SQUARE D, EATON OR EQUAL. NEMA 1									
CIRCUIT	SERVES	CONNECTED LOAD (VA)	POLE	FRAME (A)	TRIP (A)	WIRE	CONDUIT SIZE (INCHES)		
1	PANEL LP1	43,000	3	200	200	SEE POWER RISER DIAGRAM			
2	PANEL LP2	43,600	3	200	200	SEE POWER RISER DIAGRAM			
3	PANEL LP3	43,600	3	200	200	SEE POWER RISER DIAGRAM			
4	PANEL M1	35,916	3	150	125	SEE POWER RISER DIAGRAM			
5	PANEL M2	25,248	3	150	125	SEE POWER RISER DIAGRAM			
6	PANEL M3	27,468	3	150	125	SEE POWER RISER DIAGRAM			
7	PANEL FA	6,000	3	60	50	SEE POWER RISER DIAGRAM			
8	PANEL P	32,520	3	100	100	SEE POWER RISER DIAGRAM			
9	PANEL LD1	24,968	3	100	100	SEE POWER RISER DIAGRAM			
10	PANEL LD2	24,568	3	100	100	SEE POWER RISER DIAGRAM			
11	PANEL LD3	24,668	3	100	100	SEE POWER RISER DIAGRAM			
12	CHILLER CH-1	127,534	3	400	400	3-500KCMIL & #3 AWG GND	3		
13	ERAHU-1 (2X5HP)	12,033	3	60	45	3-#8 AWG & #12 GND	1		
14	PUMP CHP-1 (7.5HP)	8,718	3	60	35	3-#8 AWG & #12 GND	1		
15	PUMP SWP-1 (7.5HP)	8,718	3	60	35	3-#8 AWG & #12 GND	1		
16	PUMP HWP-1 (5HP)	6,016	3	30	30	3-#10 AWG & #12 GND	3/4		
17	SPACE		3	-----	-----				
18	SPACE		3	-----	-----				
19	SPACE		3	-----	-----				
20	SPACE		3	-----	-----				
TOTAL CONNECTED LOAD (KVA)		494,575							

PANELBOARD:		FA		VOLTAGE:		208/120		BUS RATING:				60A CU		MAIN:		MLO		TOTAL CONNECTED VA:		6,000											
LOCATION:				RISER ROOM 122		MFG. AND TYPE:		SQUARE D, EATON OR EQUAL				EQUIPMENT GROUND BUSS				YES		ISOL GND BUS:		NO		TOTAL A PHASE:		2,000							
MOUNTING:				SURFACE		ENCLOSURE:NEMA1		MINIMUM A.I.C. RATING:				10,000				FED FROM:				MDP		TOTAL B PHASE:		2,000							
																						TOTAL C PHASE:		2,000							
LOAD (VA)			SERVES						T/P		CIR. NO.		A		B		C		CIR. NO.		T/P		SERVES						LOAD (VA)		
A	B	C																											A	B	C
1000			FA LOADS						20/1		1		->ok-		-----		-----		2		20/1		FA LOADS						1000		
	1000		FA LOADS						20/1		3		-----		->ok-		-----		4		20/1		FA LOADS								
		1000	FA LOADS						20/1		5		-----		-----		->ok-		6		20/1		FA LOADS								
			SPARE						20/1		7		->ok-		-----		-----		8		20/1		SPARE								
			SPARE						20/1		9		-----		->ok-		-----		10		20/1		SPARE								
			SPARE						20/1		11		-----		-----		->ok-		12		20/1		SPARE								
1000	1000	1000	SIDE TOTALS																SIDE TOTALS										1000 1000 1000		

PANELBOARD: P			VOLTAGE: 208/120		BUS RATING: 100A CU		MAIN: MLO		TOTAL CONNECTED VA: 32,520							
LOCATION:		ELECTRICAL 204	MFG. AND TYPE:	EATON OR EQUAL	EQUIPMENT GROUND BUSS			YES	ISOL GND BUS: NO	TOTAL A PHASE: 9,200						
MOUNTING:		SURFACE	ENCLOSURE:NEMA1	MINIMUM A.I.C. RATING:	10,000			FED FROM:	MDP	TOTAL B PHASE: 11,760						
										TOTAL C PHASE: 11,560						
LOAD (VA)			SERVES			T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA)		
A	B	C												A	B	C
600			RECEPTACLES	20/1	1	->ok-	-----	-----	2	20/1	RECEPTACLES			800		
	400		RECEPTACLES	20/1	3	-----	->ok-	-----	4	20/1	RECEPTACLES				600	
		400	RECEPTACLES	20/1	5	-----	-----	->ok-	6	20/1	RECEPTACLES					1000
600			RECEPTACLES	20/1	7	->ok-	-----	-----	8	20/1	RECEPTACLES			600		
	600		RECEPTACLES	20/1	9	-----	->ok-	-----	10	20/1	RECEPTACLES				1200	
		1200	RECEPTACLES	20/1	11	-----	-----	->ok-	12	20/1	RECEPTACLES					800
800			RECEPTACLES	20/1	13	->ok-	-----	-----	14	20/1	RECEPTACLES			400		
	600		RECEPTACLES	20/1	15	-----	->ok-	-----	16	20/1	RECEPTACLES				600	
		1000	RECEPTACLES	20/1	17	-----	->ok-	-----	18	20/1	RECEPTACLES					1000
1000			RECEPTACLES	20/1	19	->ok-	-----	-----	20	20/1	RECEPTACLES			800		
	4160		RANGE	50/2	21	-----	->ok-	-----	22	20/1	RECEPTACLES				400	
		4160		23	-----	->ok-	-----	-----	24	20/1	RECEPTACLES					400
600			RECEPTACLES	20/1	25	->ok-	-----	-----	26	20/1	RECEPTACLES			1200		
	1200		RECEPTACLES	20/1	27	-----	->ok-	-----	28	20/1	RECEPTACLES				800	
		800	RECEPTACLES	20/1	29	-----	-----	->ok-	30	20/1	RECEPTACLES					800
600			RECEPTACLES	20/1	31	->ok-	-----	-----	32	20/1	RECEPTACLES			1200		
	1200		RECEPTACLES	20/1	33	-----	->ok-	-----	34	20/1	SPARE					
			SPARE	20/1	35	-----	-----	->ok-	36	20/1	SPARE					
			SPARE	20/1	37	->ok-	-----	-----	38	20/1	SPARE					
			SPARE	20/1	39	-----	->ok-	-----	40	20/1	SPARE					
			SPARE	20/1	41	-----	-----	->ok-	42	20/1	SPARE					
4200	8160	7560	SIDE TOTALS						SIDE TOTALS					5000	3600	4000

PANELBOARD:		LD1		VOLTAGE:		208/120		BUS RATING:		100A CU		MAIN:		MLO		TOTAL CONNECTED VA:		24,968											
LOCATION:				ELECTRICAL 106		MFG. AND TYPE:		SQUARE D, EATON OR EQUAL		EQUIPMENT GROUND BUSS		YES		ISOL GND BUS:		NO		TOTAL A PHASE:		7,992									
MOUNTING:				SURFACE		ENCLOSURE:NEMA1		MINIMUM A.I.C. RATING:		10,000		FED FROM:		MDP				TOTAL B PHASE:		6,992									
																		TOTAL C PHASE:		9,984									
LOAD (VA)						SERVES			T/P		CIR. NO.		A		B		C		CIR. NO.		T/P		SERVES			LOAD (VA)			
A	B	C																					A	B	C				
1000			WASHER			20/1			1		->ok-		-----		-----		2		20/1		WASHER			1000					
	1000		WASHER			20/1			3		->ok-		-----		-----		4		20/1		WASHER						1000		
		2496	DRYER			30/2			5		-----		-----		->ok-		6		30/2		DRYER							2496	
2496						7			->ok-		-----		-----		-----		8							2496					
	2496		DRYER			30/2			9		-----		->ok-		-----		10		30/2		DRYER							2496	
		2496				11			-----		->ok-		->ok-		-----		12											2496	
1000			RECEPTACLES			20/1			13		->ok-		-----		-----		14		20/1		SPARE								
			SPARE			20/1			15		-----		->ok-		-----		16		20/1		SPARE								
			SPARE			20/1			17		-----		-----		->ok-		18		20/1		SPARE								
			SPARE			20/1			19		->ok-		-----		-----		20		20/1		SPARE								
			SPARE			20/1			21		-----		->ok-		-----		22		20/1		SPARE								
			SPARE			20/1			23		-----		-----		->ok-		24		20/1		SPARE								
4496	3496	4992	SIDE TOTALS																					SIDE TOTALS			3496	3496	4992

PANELBOARD: LD2			VOLTAGE: 208/120		BUS RATING: 100A CU			MAIN: MLO		TOTAL CONNECTED VA:		24,568								
LOCATION: ELECTRICAL 204		MFG. AND TYPE:	SQUARE D, EATON OR EQUAL		EQUIPMENT GROUND BUSS			YES	ISOL GND BUS:	NO	TOTAL A PHASE:		7,592							
MOUNTING: SURFACE		ENCLOSURE:NEMA1	MINIMUM A.I.C. RATING: 10,000			FED FROM:			MDP	TOTAL B PHASE:		6,992								
										TOTAL C PHASE:		9,984								
LOAD (VA)			SERVES				T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES				LOAD (VA)		
A	B	C														A	B	C		
1000			WASHER				20/1	1	->ok-	-----	-----	2	20/1	WASHER				1000		
	1000		WASHER				20/1	3	->ok-	-----	-----	4	20/1	WASHER						1000
		2496	DRYER				30/2	5	-----	-----	->ok-	6	30/2	DRYER						2496
2496							7	->ok-	-----	-----	-----	8						2496		
	2496		DRYER				30/2	9	-----	->ok-	-----	10	30/2	DRYER						2496
		2496					11	-----	-----	->ok-	-----	12								2496
600			RECEPACLES				20/1	13	->ok-	-----	-----	14	20/1	SPARE						
			SPARE				20/1	15	-----	->ok-	-----	16	20/1	SPARE						
			SPARE				20/1	17	-----	-----	->ok-	18	20/1	SPARE						
			SPARE				20/1	19	->ok-	-----	-----	20	20/1	SPARE						
			SPARE				20/1	21	-----	->ok-	-----	22	20/1	SPARE						
			SPARE				20/1	23	-----	-----	->ok-	24	20/1	SPARE						
4096	3496	4992	SIDE TOTALS														SIDE TOTALS	3496	3496	4992

PANELBOARD:		LD3		VOLTAGE:		208/120		BUS RATING:				100A CU		MAIN:		MLO		TOTAL CONNECTED VA:		24,568	
LOCATION:		ELECTRICAL 304		MFG. AND TYPE:		SQUARE D, EATON OR EQUAL		EQUIPMENT GROUND BUSS				YES		ISOL GND BUS:		NO		TOTAL A PHASE:		7,592	
MOUNTING:		SURFACE		ENCLOSURE:NEMA1		MINIMUM A.I.C. RATING:				10,000				FED FROM:		MDP		TOTAL B PHASE:		6,992	
																		TOTAL C PHASE:		9,984	
LOAD (VA)			SERVES				T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES				LOAD (VA)			
A	B	C																A	B	C	
1000			WASHER	20/1	1	->ok-	-----	-----	2	20/1	WASHER			1000							
	1000		WASHER	20/1	3	->ok-	-----	-----	4	20/1	WASHER				1000						
		2496	DRYER	30/2	5	-----	->ok-	->ok-	6	30/2	DRYER				2496						
2496				7	->ok-	-----	-----	-----	8					2496							
	2496		DRYER	30/2	9	-----	->ok-	-----	10	30/2	DRYER				2496						
		2496		11	-----	->ok-	->ok-	-----	12						2496						
600			RECEPTACLES	20/1	13	->ok-	-----	-----	14	20/1	SPARE										
			SPARE	20/1	15	-----	->ok-	-----	16	20/1	SPARE										
			SPARE	20/1	17	-----	-----	->ok-	18	20/1	SPARE										
			SPARE	20/1	19	->ok-	-----	-----	20	20/1	SPARE										
			SPARE	20/1	21	-----	->ok-	-----	22	20/1	SPARE										
			SPARE	20/1	23	-----	-----	->ok-	24	20/1	SPARE										
4096	3496	4992	SIDE TOTALS								SIDE TOTALS	3496	3496	4992							



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