

PANEL NAME: B		SUPPLY FROM: A1		MAINS RATING (A): 225		FAULT CURRENT (A): 23577		SURGE SUPPRESSION:										
LOCATION: LAUNDRY 506		MANS TYPE: MAIN LUGS ONLY		SHORT CIRCUIT RATING... 4200		ULSE:		200% NEUTRAL:										
DISTRIBUTION SYSTEM: 208/120V 3PH 4W		FEEDER ID: 225-4C		LUGS TYPE:		ISOLATED GROUND:												
FEEDER: (4) #4/0 AWG CU, (1) #4 AWG CU GND, IN 3" CONDUIT		ENCLOSURE TYPE: NEMA 1																
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	POLE	A	B	C	POLE	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT		
1	USB RECEPTACLE I RECEPTACLE SUITE 201	1.252	#12	#12	20 A	1	0.54	0.36							USB RECEPTACLE I RECEPTACLE SUITE 202	2		
3	USB RECEPTACLE I RECEPTACLE SUITE 203	1.562	#12	#12	20 A	1		0.54	1.50						HAIRDRYER SUITE 203	4		
5	GFI SHAMPOO STATION I SUITE 204	2.061	#8	#8	20 A	1				1.68	0.36	1	20 A	#12	1.045	USB RECEPTACLE I SUITE 204	6	
7	USB RECEPTACLE I SUITE 204	1.834	#12	#12	20 A	1	0.54	0.54							USB RECEPTACLE I SUITE 101	8		
9	GFI SHAMPOO STATION I RECEPTACLE SUITE 101	2.471	#12	#12	20 A	1			1.68	0.72					GFI SHAMPOO STATION USB RECEPTACLE I SUITE...	10		
11	GFI SHAMPOO STATION I SUITE 102	1.859	#10	#10	20 A	1				1.68	1.68	1	20 A	#12	1.572	GFI SHAMPOO STATION I SUITE 105	12	
13	GFI SHAMPOO STATION USB RECEPTACLE I SUITE...	1.116	#12	#12	20 A	1	0.72	1.68							GFI SHAMPOO STATION I SUITE 103	14		
15	USB RECEPTACLE I RECEPTACLE CLOSET SUITE 104	0.664	#12	#12	20 A	1		0.54	1.68						GFI SHAMPOO STATION I RECEPTACLE CLOSET...	16		
17	USB RECEPTACLE I RECEPTACLE SUITE 105	0.409	#12	#12	20 A	1			0.54	1.68	1	20 A	#12	1.385	GFI SHAMPOO STATION I RECEPTACLE SUITE 201	18		
19	GFI SHAMPOO STATION I SUITE 202	2.449	#10	#10	20 A	1	1.68	1.50							HAIRDRYER SUITE 201	20		
21	HAIRDRYER SUITE 202	2.46	#10	#10	20 A	1		1.50	1.50						HAIRDRYER SUITE 203	22		
23	HAIRDRYER SUITE 204	2.652	#10	#10	20 A	1			1.50	1.50	1	20 A	#8	#8	1.982	RECEPTACLE SUITE 204	24	
25	WH2	0.313	#12	#12	15 A	1	0.96	1.50							HAIRDRYER SUITE 202	26		
27	WH1	0.32	#12	#12	15 A	1		0.96	1.50						HAIRDRYER SUITE 102	28		
29	HAIRDRYER SUITE 103	1.656	#12	#12	20 A	1				1.50	1.50	1	20 A	#12	1.869	HAIRDRYER SUITE 104	30	
31	HAIRDRYER SUITE 105	0.675	#12	#12	20 A	1	1.50	1.53							RTU-2 I HEATING	32		
33	RECEPTACLE - WASHER	0.64	#12	#12	20 A	1		1.50	1.53						30 A #10 #10 0.675	RTU-2 I HEATING	34	
35	(G) EWC	0.21	#12	#12	20 A	1				0.48	1.53							36
37	RECEPTACLE - WASHER	0.543	#12	#12	20 A	1	1.50	0.36							RECEPTACLE - BATHROOM SINKS	38		
39	RECEPTACLE - SECURITY CLOSET	0.079	#12	#12	20 A	1			0.18	0.06					EF-1 EF-4 I MOTOR	40		
41															EF-5 I MOTOR	42		
43	RTU-6 I HEATING	1.664	#6	#10	50 A	3	4.56	0.06							20 A #12 #12 1.105	EF-5 I MOTOR	44	
45								4.56	0.62						20 A #12 #12 0.052	EF-2 EF-3 I MOTOR	46	
47									4.56	3.48					20 A #12 #12 2.129	EF-6 EF-7 I MOTOR	48	
49	RTU-3 I HEATING	1.119	#6	#10	50 A	3	4.56	3.48							40 A #10 #8 1.59	RTU-5 I HEATING	50	
51									4.56	3.48								52
53	RTU-1 I HEATING	0.898	#10	#10	25 A	3	2.40	0.00							20 A -- -- -- SPARE		54	
57								2.40	0.00						20 A -- -- -- SPARE		56	
59	ROOFTOP RECEPTACLE	0.938	#12	#12	20 A	1			0.54	0.00	1	20 A	--	--	20 A -- -- -- SPARE		60	
61	PT-1 PT-2 I MOTOR WOMENS 507	0.282	#12	#12	20 A	1	0.48	0.00							20 A -- -- -- SPARE		62	
63	ROOFTOP RECEPTACLE	1.46	#12	#12	20 A	1		0.54	0.00						20 A -- -- -- SPARE		64	
65	SPARE	--	--	--	20 A	1			0.00	0.00	1	20 A	--	--	20 A -- -- -- SPARE		66	
67	SPARE	--	--	--	20 A	1	0.00	0.00							20 A -- -- -- SPARE		68	
69	SPARE	--	--	--	20 A	1			0.00	0.00	1	20 A	--	--	20 A -- -- -- SPARE		70	
71	SPARE	--	--	--	20 A	1			0.00	0.00	1	20 A	--	--	20 A -- -- -- SPARE		72	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	NOTES:	BREAKER QUANTITIES:
Continuous	1920 VA	125.00%	2400 VA		(2) 15A / 1P, (54) 20A / 1P, (1) 30A / 1P
Heating	46576 VA	100.00%	46576 VA		(1) 25A / 3P, (1) 30A / 1P, (1) 3P, (2) 50A / 3P
Motor	1668 VA	106.65%	1779 VA		
Non-Continuous	480 VA	100.00%	480 VA		
Receptacle	38960 VA	62.51%	24980 VA		
<b>PANEL TOTALS</b>					
TOTAL CONNECTED LOAD:		30.4 kVA	31.5 kVA		
DEMAND CALCULATION NOTES:					
TOTAL DEMAND:		79.2 kVA			
TOTAL DEMAND AMPS:		220 A			

PANEL NAME: A		SUPPLY FROM: A2		MAINS RATING (A): 175		FAULT CURRENT (A): 18846		SURGE SUPPRESSION:									
LOCATION: LAUNDRY 506		MANS TYPE: MAIN LUGS ONLY		SHORT CIRCUIT RATING... 22000		ULSE:		200% NEUTRAL:									
DISTRIBUTION SYSTEM: 208/120V 3PH 4W		FEEDER ID: 175-4C		LUGS TYPE:		ISOLATED GROUND:											
FEEDER: (4) #2/0 AWG CU, (1) #6 AWG CU GND, IN 2" CONDUIT		ENCLOSURE TYPE: NEMA 1															
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	POLE	A	B	C	POLE	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1	GFI SHAMPOO STATION I RECEPTACLE SUITE 301	1.98	#12	#12	20 A	1	1.68	1.50							HAIRDRYER SUITE 403	2	
3	USB RECEPTACLE I RECEPTACLE SUITE 301	0.794	#12	#12	20 A	1		0.54	1.50						RECEPTACLE SUITE 405	4	
5	RECEPTACLE SUITE 301	2.233	#12	#12	20 A	1		1.50	1.50	1	20 A	#12	1.007	1.007	HAIRDRYER SUITE 401	6	
7	USB RECEPTACLE I RECEPTACLE SUITE 302	0.945	#12	#12	20 A	1	0.54	1.68							GFI SHAMPOO STATION I RECEPTACLE SUITE 302	8	
9	RECEPTACLE SUITE 302	2.66	#12	#12	20 A	1		1.50	1.50						RECEPTACLE SUITE 303	10	
11	GFI SHAMPOO STATION USB RECEPTACLE L...	1.058	#12	#12	20 A	1		0.54	1.68	1	20 A	#10	#10	1.806	RECEPTACLE SUITE 303	12	
13	GFI SHAMPOO STATION USB RECEPTACLE L...	1.231	#12	#12	20 A	1		0.54	1.50						RECEPTACLE SUITE 304	14	
15	RECEPTACLE SUITE 304	2.019	#10	#10	20 A	1		1.68	1.50						RECEPTACLE SUITE 305	16	
17	USB RECEPTACLE I RECEPTACLE SUITE 305	1.369	#12	#12	20 A	1		0.54	1.68	1	20 A	#10	#10	2.32	RECEPTACLE SUITE 305	18	
19	USB RECEPTACLE I RECEPTACLE SUITE 405	1.16	#12	#12	20 A	1	0.54	1.68							GFI SHAMPOO STATION I RECEPTACLE SUITE 305	20	
21	RECEPTACLE SUITE 404	1.974	#12	#12	20 A	1		1.50	0.54						USB RECEPTACLE I RECEPTACLE SUITE 404	22	
23	GFI SHAMPOO STATION I RECEPTACLE SUITE 404	1.859	#10	#10	20 A	1		1.68	1.50	1	20 A	#12	#12	1.218	HAIRDRYER SUITE 402	24	
25	GFI SHAMPOO STATION I RECEPTACLE SUITE 205	2.685	#10	#10	20 A	1	1.68	1.50							HAIRDRYER SUITE 210	26	
27	HAIRDRYER SUITE 209	1.819	#12	#12	20 A	1		1.50	1.50						HAIRDRYER SUITE 208	28	
29	HAIRDRYER SUITE 207	1.943	#10	#10	20 A	1		1.50	1.50	1	20 A	#12	#12	2.081	HAIRDRYER SUITE 206	30	
31	HAIRDRYER SUITE 205	2.54	#10	#10	20 A	1	1.50	1.68							GFI SHAMPOO STATION I RECEPTACLE SUITE 206	32	
33	USB RECEPTACLE I RECEPTACLE SUITE 206	1.362	#12	#12	20 A	1		0.54	0.54						USB RECEPTACLE I RECEPTACLE SUITE 205	34	
35	USB RECEPTACLE I RECEPTACLE SUITE 207	1.195	#12	#12	20 A	1		0.54	1.68	1	20 A	#10	#10	2.378	GFI SHAMPOO STATION I RECEPTACLE SUITE 207	36	
37	GFI SHAMPOO STATION I RECEPTACLE SUITE 401	1.689	#12	#12	20 A	1	1.68	0.54							RECEPTACLE I RECEPTACLE SUITE 401	38	
39	GFI SHAMPOO STATION I RECEPTACLE SUITE 403	2.154	#12	#12	20 A	1		1.50							HAIRDRYER SUITE 210	40	
41	USB RECEPTACLE I RECEPTACLE SUITE 403	0.865	#12	#12	20 A	1		0.54	1.68	1	20 A	#12	#12	1.811	GFI SHAMPOO STATION I RECEPTACLE SUITE 210	42	
43	(G) GFI SHAMPOO STATION USB RECEPTACLE L...	0.415	#12	#12	20 A	1		0.54							USB RECEPTACLE I RECEPTACLE SUITE 210	44	
45	USB RECEPTACLE I RECEPTACLE SUITE 209	0.766	#12	#12	20 A	1		0.54							GFI SHAMPOO STATION I RECEPTACLE SUITE 209	46	
47	GFI SHAMPOO STATION I RECEPTACLE SUITE 208	2.016	#10	#10	20 A	1		1.68	0.54						USB RECEPTACLE I RECEPTACLE SUITE 208	48	
49	RECEPTACLE - HALLWAY [1]	1.768	#12	#12	20 A	1	0.90	0.72							RECEPTACLE - HALLWAY [2]	50	
51	RECEPTACLE - LOBBY TV	0.38	#12	#12	20 A	1		0.18	0.05						TIMECLOCK LAUNDRY 505	52	
53	LIGHTING - LAUNDRY & RESTROOMS		#12	#12	20 A	1		0.34	0.68	1	20 A	#12	#12	1.271	LIGHTING - HALLWAY [2]	54	
55	LIGHTING - HALLWAY [1] & LOBBY	2.09	#12	#12	20 A	1	0.70	0.90							LIGHTING - CENTER SUITES	56	
57	LIGHTING - FRONT SUITES	2.183	#12	#12	20 A	1		0.72	0.63						LIGHTING - REAR SUITES	58	
59	LIGHTING - SUITE WALL SCONCES	2.401	#12	#12	20 A	1		0.70	1.20	1	20 A	#12	#12	2.279	SIGNAGE I LIGHTING	60	
61	RECEPTACLE - LAUNDRY CONFERENCE	0.029	#12	#12	20 A	1		0.18	3.48								62
63	RECEPTACLE - DRYER	0.306	#10	#10	20 A	2		2.25	3.48						RTU-4 I HEATING	64	
65	RECEPTACLE - DRYER	0.340	#10	#10	30 A	2		2.25	0.00								66
67	RECEPTACLE - DRYER	0.340	#10	#10	30 A	2		2.25	0.00								68
69	SPARE	--	--	--	20 A	1			0.00	0.00	1	20 A	--	--			70
71	SPARE	--	--	--	20 A	1			0.00	0.00	1	20 A	--	--			72

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	NOTES:	BREAKER QUANTITIES:
Continuous	10440 VA	100.00%	10440 VA		(64) 20A / 1P, (1) 20A / 1P (G), (2) 30A / 2P, (1) 40A / 3P
Heating	5936 VA	125.00%	7420 VA		
Lighting	9050 VA	100.00%	9050 VA		
Non-Continuous	61320 VA	58.15%	35660 VA		
<b>PANEL TOTALS</b>					
TOTAL CONNECTED LOAD:		28.5 kVA	29.3 kVA		
DEMAND CALCULATION NOTES:					
TOTAL DEMAND:		62.6 kVA			
TOTAL DEMAND AMPS:		174 A			

PANEL SCHEDULE LEGEND	
(EX)	= EXISTING CIRCUIT TO REMAIN
(#)	= NEW CIRCUIT TO EXISTING CIRCUIT BREAKER
(G)	= PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER
(GE)	= PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER
(ST)	= PROVIDE SHUNT TRIP CIRCUIT BREAKER
(A)	= PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER
(L)	= PROVIDE LOCK-ON DEVICE
(LT)	= PROVIDE LOCK-OUT/TAG-OUT DEVICE
(->)	= CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) AND BREAKER INDICATED. DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION
-	= WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP
SL	= SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP
PANEL SCHEDULE GENERAL NOTES	
A.	PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
B.	PROVIDE LOCKING TYPE BREAKER FOR ALL LIFE SAFETY AND NIGHT LIGHTING BRANCH CIRCUITS.
C.	UNLESS INDICATED OTHERWISE ON PLANS OR SCHEDULES, PROVIDE NEW BRANCH OVERCURRENT PROTECTIVE DEVICE (OPD) BREAKER OR FUSED SWITCH, WITH FUSE, AS APPLICABLE) IN CASES WHERE NEW CIRCUITS OR FEEDERS ARE SHOWN CONNECTED TO EXIST