



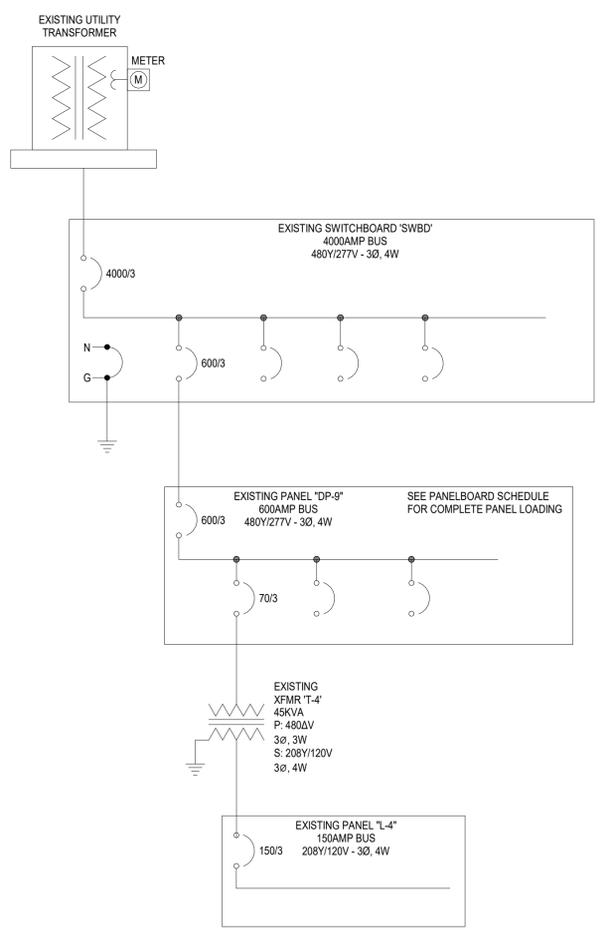
REVISIONS

Δ	DESCRIPTION	DATE



FEEDER SCHEDULE				
AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:  
1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.  
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.  
3. CONDUITS ARE SIZED PER NEC TABLES FOR THINWALL AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.  
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.



**1 PARTIAL ELECTRICAL ONE-LINE DIAGRAM**  
Scale: N.T.S.

Branch Panel: DP-9													
Location: Supply From: EXISTING SWBD Mounting: Surface				Volts: 277/480 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22,000 Enclosure: Type 1 Mains: 600A					
Phase in kVA													
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note	
--	1	PANEL H1 (EXISTING)	--	125	3	30.0 / 23.0			3	125	--	PANEL H2 (EXISTING)	2
--	3	PANEL H3 (EXISTING)	--	125	3	31.5 / 19.2			3	110	#1	RTU-9 (NEW)	8
--	5												10
--	7												12
--	9	RTU-3 (NEW)	#4	60	3	10.3 / 15.7			3	80	#3	RTU-10 (NEW)	14
--	11												16
--	13												18
--	15	RTU-2 (NEW)	#1	110	3	19.2 / 5.5			3	70	#4	T-4 (EXISTING)	20
--	17												22
--	19												24
--	21												26
--	23												28
--	25	RTU-1	--	20	3	10.5 / 0.0							30
--	27												32
--	29												34
--	31	RCP-1, RCP-2, RCP-3, RCP-4 (EXISTING)	--	20	1	3.0 / 0.0							36
--	33												38
--	35												40
--	37												42
--	39												
--	41												
					Total Load:								
					167.9 kVA			165.1 kVA			163.3 kVA		
					607 A			597 A			590 A		
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals		
HVAC					193.3 kVA		100.00%		193.3 kVA		Total Conn. Load: 496.3 kVA		
Miscellaneous					0.0 kVA		0.00%		0.0 kVA		Total Est. Demand: 496.3 kVA		
Receptacles					0.7 kVA		100.00%		0.7 kVA		Total Conn. Current: 597 A		
Spare					302.3 kVA		100.00%		302.3 kVA		Total Est. Demand Current: 597 A		
Notes: EXISTING PANEL.					Abbreviations: G - PROVIDE GFCI CIRCUIT BREAKER LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE M - PROVIDE METERING DEVICE								

Branch Panel: L-4													
Location: Supply From: T-4 Mounting: Surface				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 150A					
Phase in kVA													
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note	
--	1	RECEPS BAND RM, RMs, CORR 2E (EXISTING)	--	20	1	0.5 / 0.5			1	20	--	RECEP OFFICE #8 BAND RM (EXISTING)	2
--	3	DRINKING FOUNTAIN LOBBY N (EXISTING)	--	20	1		0.4 / 0.7		1	20	--	RECEP CONF. RM 5 BAND (EXISTING)	4
--	5	FOUNTAIN LOBBY N / RM 10 MENS R.R....	--	20	1			0.4 / 0.5	1	20	--	RECEP OFFICE #4 BAND (EXISTING)	6
--	7	GFI 36 MENS RR RM10 (EXISTING)	--	20	1	0.4 / 0.7			1	20	--	RECEP CORR. 1 & 2W. BAND RM 3 (EXISTING)	8
--	9	STORAGE RM 13 (EXISTING)	--	20	1		0.7 / 0.7		1	20	--	RECEP BAND RM 3 & STORAGE RM 7...	10
--	11	ICE MACH CONCESSION RM 12 (EXISTING)	--	20	1			0.6 / 0.5	1	20	--	RECEP BAND RM 3 & OUTSIDE GFI (EXISTING)	12
--	13	VENDING CONCESSION RM 12 (EXISTING)	--	20	1	0.5 / 0.5			1	20	--	SINK, WOMENS RR 4 (EXISTING)	14
--	15	VENDING CONCESSION RM 12 (EXISTING)	--	20	1		0.5 / 0.2		1	20	--	SOUND BOOTH BAND RM 3 (EXISTING)	16
--	17	NACHOS CONCESSION RM 12 (EXISTING)	--	20	1			0.5 / 0.4	1	20	--	SOUND BOOTH BAND RM 3 (EXISTING)	18
--	19	HOTDOGS CONCESSION RM 12 (EXISTING)	--	20	1	0.5 / 0.4			1	20	--	SOUND BOOTH BAND RM 3 (EXISTING)	20
--	21	CROCK POT CONCESSION RM 12 (EXISTING)	--	20	1		0.7 / 0.7		1	20	--	TOILET SENSORS MENS RRM 10 & SINK RM 10...	22
--	23	WARMER CONCESSION RM 12 (EXISTING)	--	20	1			0.3 / 0.4	1	20	--	GFI'S IN EF-1 & EF-10 (EXISTING)	24
--	25	POPCORN CONCESSION RM 12 (EXISTING)	--	20	1	0.5 / 0.5			1	20	--	EF-1 & EF-10 (EXISTING)	26
--	27	RECEP LOBBY (EXISTING)	--	20	1		0.4 / 0.0		1	20	--	TOILET SENSORS WOMENS RRM 14 (EXISTING)	28
--	29	DRINKING FOUNTAIN LOBBY S (EXISTING)	--	20	1			0.4 / 0.0	1	20	--	GYM PROJECTOR SCREEN (EXISTING)	30
--	31	GFI / SINK WOMENS RR #14 (EXISTING)	--	20	1	0.4 / 0.0			1	20	--	W. SCOREBOARD (EXISTING)	32
--	33	GAME TV S. LOBBY / DRINKING FOUNTAIN...	--	20	1		0.0 / 0.7		1	20	#12	GFI RTUS 2, 3, 9, 10 & RECEPS N. LOBBY	34
--	35	RECEP N. LOBBY MECH RM 11, GAME TV N....	--	20	1			0.0 / 0.0	1	20	--	PROJECTOR SCREEN BAND RM 3 (EXISTING)	36
--	37	WH-1, WH-2 & CP-1 (EXISTING)	--	20	1	0.0 / 0.0			1	30	--	SPARE	38
--	39	SOUND BOOTH BAND RM 3 (EXISTING)	--	20	1		0.0 / 0.0		1	30	--	SPARE	40
--	41	GFI - RTU-1 (EXISTING)	--	20	1			0.0 / 0.0	1	30	--	SPARE	42
					Total Load:								
					48 A			49 A			33 A		
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals		
Receptacles					0.7 kVA		100.00%		0.7 kVA		Total Conn. Load: 15.2 kVA		
Spare					14.4 kVA		100.00%		14.4 kVA		Total Est. Demand: 15.2 kVA		
											Total Conn. Current: 42 A		
											Total Est. Demand Current: 42 A		
Notes: EXISTING PANEL.					Abbreviations: G - PROVIDE GFCI CIRCUIT BREAKER LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE M - PROVIDE METERING DEVICE								

ELECTRICAL MECHANICAL EQUIPMENT COORDINATION SCHEDULE									
TAG	Description	Voltage	Phase	Apparent Load	MCA	MOCP	Disconnect Type	Disco. Furnished By	Disco. Installed By
RTU-10	ROOF TOP UNIT	480	3	47.2 kVA	63	80	NON-FUSED	MC	EC
RTU-9	ROOF TOP UNIT	480	3	57.5 kVA	77	110	NON-FUSED	MC	EC
RTU-2	ROOF TOP UNIT	480	3	57.5 kVA	77	110	NON-FUSED	MC	EC
RTU-3	ROOF TOP UNIT	480	3	31.0 kVA	41	60	NON-FUSED	MC	EC