NEW PANEL LP3

POLES 30 | VOLTAGE 277/480 | MOUNTING SURFACE
SECTION 1 of 1
AIC 10K | MAIN WIRE 150 4W MLO | PHASE FED FROM 3 MDSP

CKT #	BREAKER TRIP	BREAKER POLES	DESCRIPTION	LOAD TYPE	PHASE KVA A	PHASE KVA B	PHASE KVA C	LOAD TYPE	DESCRIPTION	BREAKER TRIP	BREAKER POLES	CKT #
1	20	1	EH-4	H	3.00			H	EH-3	20	1	2
					3.00							
3	25	1	EH-2	H		5.00		H	EH-1	25	1	4
						5.00						
5	25	3	RTU-1	AC			6.10	L	NEW LIGHTING	20	1	6
7	-	-	-	AC	6.10		2.50	L	NEW LIGHTING	20	1	8
					1.40							
9	-	-	-	AC		6.10		L	NEW LIGHTING	20	1	10
						1.12						
11	20	1					1.23	L	NEW LIGHTING	20	1	12
13	20	1								20	1	14
15	20	1								20	1	16
17	20	1								20	1	18
19	20	1								20	1	20
21	20	1								20	1	22
23	20	1								20	1	24
25	20	1								20	1	26
27	20	1								20	1	28
29	20	1								20	1	30
					13.50	17.22	9.83					

NOTES:

TOTAL CONNECTED KVA: 40.55
TOTAL AMPACITY: 48.77
125% AMPACITY: 60.97

ABBR.	LOAD DESCRIPTION	CONNECTED LOAD KW	DEMAND FACTOR	DEMAND LOAD KW
IL	INTERIOR LIGHTING	6.25	1.00	6.25
EL	EXTERIOR LIGHTING	0.00	1.00	0.00
R	RECEPTACLES	0.00	(RW-10K)*.5+10K	0.00
M	MOTORS	0.00	1.00	0.00
H	ELECTRIC HEAT	16.00	1.00	16.00
AC	AIR CONDITIONING	18.30	1.00	18.30
MSC	MISCELANEOUS	0.00	1.00	0.00
	TOTAL	40.55		40.55

AMPS: 48.77 | 1.25 | 60.97

EXISTING PANEL RP1

POLES 30 | VOLTAGE 120/208 | MOUNTING SURFACE
SECTION 1 of 1
AIC 10K | MAIN WIRE 225 4W MLO | PHASE FED FROM 3

CKT #	BREAKER TRIP	BREAKER POLES	DESCRIPTION	LOAD TYPE	PHASE KVA A	PHASE KVA B	PHASE KVA C	LOAD TYPE	DESCRIPTION	BREAKER TRIP	BREAKER POLES	CKT #
1	20	1	EX RECEPT OPEN OFFICE	R	1.50				EX RECEPT OPEN OFFICE	20	1	2
					1.50			R				
3	20	1	EX RECEPT OPEN OFFICE	R		1.50			EX RECEPT OPEN OFFICE	20	1	4
						1.50		R				
5	20	1	EX RECEPT OPEN OFFICE	R			1.50		EX RECEPT OPEN OFFICE	20	1	6
7	20	1	EX RECEPT OPEN OFFICE	R	1.50		1.50	R				
					1.50				EX RECEPT SUPPLY ROOM	20	1	8
9	20	1	EX GFI LUNCH ROOM	R				R				
						1.50			EX RECEPT OFFICE	20	1	10
11	20	1	EX REC LUNCH/COMP ROOMS	R			1.50	R				
13	20	1	EX RECEPT OPEN OFFICE	R	1.50				EX RECEPT OPEN OFFICE	20	1	12
					1.50			R				
15	20	1	EX RECEPT OPEN OFFICE	R		1.50			EX RECEPT OPEN OFFICE	20	1	14
						1.50		R				
17	50	3	EXISTING RP2 PANEL	MSC			4.80		NEW FITNESS RECEPTACLES	20	1	16
							1.00	R				
19	-	-	-	MSC	4.80				NEW FITNESS RECEPTACLES	20	1	18
					1.00			R				
21	-	-	-	MSC		4.80			SPARE	20	1	20
								R				
23	20	1	EX GFI LUN CH ROOM	R					NEW TREADMILL	20	1	22
							1.00	R				
25	20	1	EX AUTODOOR COMPUTER RM	R	1.50				EX. RTU #7	80	3	24
					7.68			AC				
27	20	1	EX SMOKE EATERY / GFI ROOF	R		1.50			-	-	-	26
						7.68		AC				28
29	20	1	EX PHOTO CELL REC DOOK	R			1.50		-	-	-	
							7.68	AC				30
					23.98	21.48	20.48					

NOTES:
* ALL EXISTING CONNECTED LOADS WERE ESTIMATED AT 60% OF THE CIRCUIT BREAKER CAPA

TOTAL CONNECTED KVA: 65.94
TOTAL AMPACITY: 183.03
125% CONNECTED AMPACITY: 228.79

ABBR.	LOAD DESCRIPTION	CONNECTED LOAD KW	DEMAND FACTOR	DEMAND LOAD KW
IL	INTERIOR LIGHTING	0.00	1.00	0.00
EL	EXTERIOR LIGHTING	0.00	1.00	0.00
R	RECEPTACLES	28.50	(RW-10K)*.5+10K	19.25
M	MOTORS	0.00	1.00	0.00
H	ELECTRIC HEAT	0.00	1.00	0.00
AC	AIR CONDITIONING	23.04	1.00	23.04
MSC	MISCELANEOUS	14.40	1.00	14.40
	TOTAL	65.94		56.69

AMPS: 157.36 | DEMAND 1.25 | 196.69

NEW PANEL RP4

POLES 30 | VOLTAGE 120/208 | MOUNTING SURFACE
SECTION 1 of 1
AIC 10K | MAIN WIRE 100 4W MLO | PHASE FED FROM 3

CKT #	BREAKER TRIP	BREAKER POLES	DESCRIPTION	LOAD TYPE	PHASE KVA A	PHASE KVA B	PHASE KVA C	LOAD TYPE	DESCRIPTION	BREAKER TRIP	BREAKER POLES	CKT #
1	20	1	KITCHEN RECEPT	R	0.18				DISHWASHER	20	1	2
					1.00			R				
3	20	1	GARBAGE DISPOSER	M		1.10			KITCHEN RECEPT	20	1	4
						0.36		R				
5	20	1	REFRIGERATOR	R			1.20		KITCHEN RECEPT	20	1	6
							0.18	R				
7	20	1	WATER COOLER	R	1.10				ICE MAKER	20	1	8
					1.10			R				
9	20	1	MICROWAVE	R		1.10			MICROWAVE	20	1	10
						1.10		R				
11	20	1	MICROWAVE	R			1.10		TREADMILL	20	1	12
							1.10	R				
13	20	1	TREADMILL	R	1.10				TREADMILL	20	1	14
					1.10			R				
15	20	1	CARDIO MACHINES	R		1.20			CARDIO MACHINES	20	1	16
						1.20		R				
17	20	1	VENDING MACHINES	R			1.00		PROJECTOR SCREEN	20	1	18
							1.20	R				
19	20	1	VENDING MACHINES	R	1.00				SPARE	20	1	20
21	20	1	VENDING MACHINES	R		1.00			SPARE	20	1	22
23			SPACE						SPACE			24
25			SPACE						SPACE			26
27			SPACE						SPACE			28
29			SPACE						SPACE			30
					6.58	7.06	5.78					

NOTES:

TOTAL CONNECTED KVA: 19.42
TOTAL AMPACITY: 53.90
125% AMPACITY: 67.38

ABBR.	LOAD DESCRIPTION	CONNECTED LOAD KW	DEMAND FACTOR	DEMAND LOAD KW
IL	INTERIOR LIGHTING	0.00	1.00	0.00
EL	EXTERIOR LIGHTING	0.00	1.00	0.00
R	RECEPTACLES	18.32	(RW-10K)*.5+10K	14.16
M	MOTORS	1.10	1.00	1.10
H	ELECTRIC HEAT	0.00	1.00	0.00
AC	AIR CONDITIONING	0.00	1.00	0.00
MSC	MISCELANEOUS	0.00	1.00	0.00
	TOTAL	19.42		15.26

AMPS: 42.36 | 1.25 | 52.95

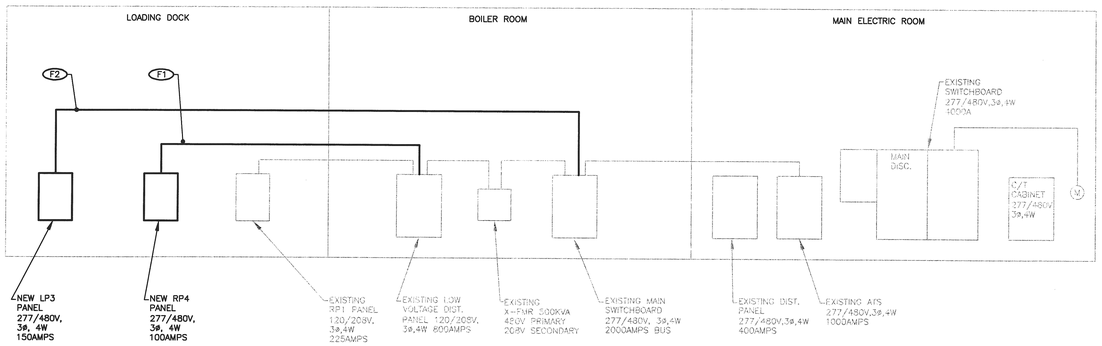
RESIDENT PANEL FEEDER SCHEDULE

LENGTH OF SERVICE (FEET)	FEEDER
UP TO 170'	3#1 & 1#6GRD
171' TO 215'	3#1/0 & 1#4GRD
216' TO 275'	3#2/0 & 1#4GRD
276' TO 360'	3#3/0 & 1#3GRD

FEEDER SCHEDULE

(F1) (4)#2+(1)#8GRD IN 1-1/4" C. FEED FROM SPARE 100AMP CIRCUIT BREAKER IN EXISTING LOW VOLTAGE DISTRIBUTION PANEL IN THE BOILER ROOM.

(F2) (4)#1/0+1#6GRD IN 2"C. FEED FROM SPARE 150AMP CIRCUIT BREAKER IN EXISTING MAIN SWITCHBOARD IN THE BOILER ROOM.



EXISTING & NEW ELECTRICAL POWER RISER

NOT TO SCALE

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ISSUED FOR | DATE
BID SET | 07.07.2011
PERMIT | 07.15.2011

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DCI Project No. 459-10-01

SEAL
"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland,
License No. 21805
Expiration Date: 12-11-2011

STATE OF MARYLAND · DAVID E. GRIFFITH · NO. 21805 · REGISTERED · ELECTRICAL ENGINEER

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SCALE
NOT APPLICABLE

SHEET NUMBER
E002