PANEL RPA

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	14000
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	2 SECTION PANEL W/ DOUBLE OR FEED THRU LUGS
MAIN O.C. DEVICE (A):	200 A M.B.		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	REC, ROOM A01 & A06	20	1	1000	1400					1	20	REC, ROOM A02 & A03	2
3	REC, ROOM A03	20	1			1000	1200			1	20	REC, ROOM A05, A07, A10 & A06A	4
5	REC, ROOM A11	20	1					1500	350	1	20	REC, ROOM A11	6
7	REC, ROOM A11	20	1	1500	400					1	20	REC, ROOM A11	8
9	REC, ROOM A11	20	1			1500	1000			1	20	REC, ROOM A26 & A27(NOTE)	10
11	REC, ROOM A25–A27(NOTE)	20	1					1050	800	1	20	REC, ROOM A23–A25(NOTE)	12
13	REC, ROOM A23(NOTE)	20	1	1500	1050					1	20	REC, ROOM A06 & A10	14
15	REC, ROOM A20 & A22	20	1			1200	1400			1	20	REC, ROOM A21(NOTE)	16
17	REC, ROOM A20(NOTE)	20	1					350	1400	1	20	REC, ROOM A12 & A17	18
19	REC, ROOM A04, A21 & C05	20	1	1700	400					1	20	REC, ROOM A18 & A19	20
21	REC, ROOM B16 & B23	20	1			200	1200			1	20	REC, ROOM B17–B20	22
23	REC, ROOM B21 STATION 1–2	20	1					1200	1200	1	20	REC, ROOM B29–B33	24
25	REC, ROOM B26, B28, B35 & B36	20	1	1200	1000					1	20	REC, ROOM B37–B39	26
27	REC, ROOM B34(NOTE)	20	1			1200	1000			1	20	REC, ROOM B21 STATION 3	28
29	REC, ROOM B04, B05 & B25	20	1					700	600	1	20	REC, ROOM B04	30
31	REC, ROOM B01, B02 & B110	20	1	1200	1000					1	20	REC, ROOM B05 & B07	32
33	REC, ROOM B08	20	1			1000	800			1	20	REC, ROOM B15, B25, B27	34
35	REC, OUTSIDE	20	1					400	600	1	20	REC, CORR. B24	36
37	REC, CORR. B02 & B09	20	1	800	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	EWC–1	20	1					350	1400	1	20	REC, PHARMACY COUNTER	42
43	REC, PHARMACY R.R.	20	1	800	1100					1	20	PHARMACY, VAULT REC.	44
45	REC, PHARMACY	20	1			800	1000			1	20	REC, PHARMACY	46
47	DENTAL, ROOM B11	20	1					1400	1500	1	20	DENTAL, ROOM B11	48
49	DENTAL, ROOM B11	20	1	1500	1500					1	20	DENTAL, ROOM B11	50
51	DENTAL CHAIR, ROOM B11	20	1			1200	1400			1	20	DENTAL, ROOM B12	52
53	DENTAL, ROOM B12	20	1					1500	1500	1	20	DENTAL, ROOM B12	54
55	DENTAL, ROOM B12	20	1	1500	1200					1	20	DENTAL CHAIR, ROOM B12	56
57	DENTAL, ROOM B13	20	1			1400	1500			1	20	DENTAL, ROOM B13	58
59	DENTAL, ROOM B13	20	1					1500	1500	1	20	DENTAL, ROOM B13	60
61	DENTAL CHAIR, ROOM B13	20	1	1200	1400					1	20	DENTAL, ROOM B14	62
63	DENTAL, ROOM B14	20	1			1500	1500			1	20	DENTAL, ROOM B14	64
65	DENTAL, ROOM B14	20	1					1500	1200	1	20	DENTAL CHAIR, ROOM B14	66
67	DENTAL, X–RAY ROOM B04	30	1	2200	1800					1	20	TRACK LIGHTING, ROOM B11	68
69	TRACK LIGHTING, ROOM B12	20	1			1800	1800			1	20	TRACK LIGHTING, ROOM B13	70
71	TRACK LIGHTING, ROOM B14	20	1					1800	0	1	20	SPARE	72
73	SPARE	20	1	0	0					1	20	SPARE	74
75	SPARE	20	1			0	0			1	20	SPARE	76
77	SPARE	20	1					0	0	1	20	SPARE	78
79	SPARE	20	1	0	0					1	20	SPARE	80
81	SPARE	20	1			0	0			1	20	SPARE	82
83	SPARE	20	1					0	0	1	20	REC, ROOM B36	84
				CONNECTED LOAD PHASE TOTALS (VA)									
				28350		26600		25300					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Appliance – Dwelling Unit	0.4	1.00	0.4
Kitchen Equipment – Non–Dwelling Unit	6.3	0.65	4.1
Motors	1.5	1.00	1.5
Motors (Largest)	1.0	1.25	1.3
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	63.5	0.50	31.8
TOTAL:	82.8		49.0
LOAD (AMPS):	229.7		136.1

DEMAND LOAD	49.0 KVA
SPARE CAPACITY	23.0 KVA
SPARE CAPACITY	63.9 AMPS
SPARE CAPACITY	32 %
PHASE BALANCE	
A TO B	96 %
B TO C	90 %
C TO A	86 %

NOTE
IF DEDUCT ALT.#10 IS CHOSEN, CIRCUITS 10,11,12,13,16,17&27 WILL BECOME 20A SPARES

PANEL RPB

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	14000
MINIMUM BUS CAPACITY (A):	125 A	NOTES:	2 SECTION PANEL W/ DOUBLE OR FEED THRU LUGS
MAIN O.C. DEVICE (A):	125 A M.B.		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	REC, ROOM C01	20	1	1050	700					1	20	REC, ROOM C01	2
3	REC, ROOM C01	20	1			700	1000			1	20	REC, ROOM C01	4
5	REC, ROOM C12 & C13	20	1					1000	1150	1	20	REC, ROOM C08 & C09	6
7	REC, ROOM C10	20	1	800	600					1	20	REC, ROOM C20 & C20A	8
9	REC, ROOM C18 & C19	20	1			800	1200			1	20	REC, ROOM C15 & C16	10
11	REC, ROOM C23 & C21	20	1					800	800	1	20	REC, ROOM C22 & C24	12
13	REC, ROOM C26 & C27	20	1	1200	800					1	20	REC, ROOM C25 & C31	14
15	REC, ROOM C30–C34	20	1			1400	1000			1	20	REC, ROOM C17	16
17	REC, ROOM C33–C34	20	1					800	1200	1	20	REC, ROOM C36 & C38	18
19	REC, ROOM C37, C39, C41 & C43	20	1	1400	800					1	20	REC, ROOM C40 & C42	20
21	REC, ROOM C05	20	1			1200	800			1	20	REC, ROOM C44 & C45	22
23	REC, ROOM C18, C20, C21	20	1					1050	1050	1	20	REC, ROOM C22–C24	24
25	REC, ROOM C25–C27	20	1	1050	1050					1	20	REC, ROOM C37–C39	26
27	REC, ROOM C40–C42	20	1			1050	1050			1	20	REC, ROOM C06, C44, C45	28
29	REC, ROOM C02, C13, C14	20	1					1050	700	1	20	REC, ROOM C13 & C14	30
31	REC, ROOM C09 & C10	20	1	700	1200					1	20	REC, ROOM C02, C06 & C14	32
33	REC, ROOM C15	20	1			350	800			1	20	REC, ROOM C30 & C32	34
35	REC, ROOM D03	20	1					1000	1200	1	20	REC, ROOM D02 & D04	36
37	REC, ROOM D09	20	1	1000	1200					1	20	REC, ROOM D07	38
39	REC, ROOM D06, D08, D14 & D15	20	1			800	1100			1	20	REC, ROOM D18	40
41	REC, ROOM D22 & D23	20	1					800	500	1	20	REC, ROOM D19	42
43	REC, ROOM D19	20	1	1500	1500					1	20	REC, ROOM D19	44
45	REC, ROOM D19	20	1			1500	800			1	20	REC, ROOM D01	46
47	REC, OUTSIDE	20	1					600	800	1	20	REC, CORR. D05 & D13	48
49	REC, CORR. C28, C29 & C35	20	1	600	600					1	20	REC, CORR. C03, C07 & C11	50
51	REC, SCALE	20	1			200	4400			2	200	REC, FILM PROCESSOR	52,54
53	SPARE	20	1					0	4400	2	200	REC, FILM PROCESSOR	52,54
55	SPARE	20	1	0	0					1	20	SPARE	56
57	SPARE	20	1			0	0			1	20	SPARE	58
59	SPARE	20	1					0	0	1	20	SPARE	60
				CONNECTED LOAD PHASE TOTALS (VA)									
				17750		20150		18900					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	46.8	0.50	23.4
TOTAL:	56.8		33.4
LOAD (AMPS):	82.0		48.2

DEMAND LOAD	33.4 KVA
SPARE CAPACITY	53.2 KVA
SPARE CAPACITY	76.8 AMPS
SPARE CAPACITY	61%
PHASE BALANCE	
A TO B	88 %
B TO C	94 %
C TO A	94 %

PANEL RPC

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	14000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	INTEGRAL BUSS MOUNTED TVSS 65KA
MAIN O.C. DEVICE (A):	100 A M.B.		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	LGT, COMM. ROOM D20	20	1	225	800					1	20	REC, COMM. ROOM D20	2
3	REC, COMM. ROOM D20	20	1			1500	1500			1	20	REC, COMM. ROOM D20	4
5	REC, COMM. ROOM D20	20	1					1500	1500	1	20	REC, COMM. ROOM D20	6
7	REC, ROOM D21	20	1	1500	1500					1	20	REC, ROOM D21	8
9	REC, ROOM D21	20	1			1500	400			1	20	REC, ROOM D21	10
11	LGTS, COMM. ROOM A08	20	1					75	1500	1	20	REC, COMM. ROOM A08	12
13	REC, COMM. ROOM A08	20	1	1500	600					1	20	REC, COMM. ROOM A08	14
15	REC, ROOM A06	20	1			1500	550			1	20	CAMERAS, OUTSIDE	16
17	POWER FOR ACCESS CONTROL	20	1					1100	0	1	20	SPARE	18
19,21,23	TVSS	30	3	0	0					1	20	SPARE	20
						0	0			1	20	SPARE	22
								0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				6125		6950		5675					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	0.3	1.25	0.4
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	8.4	0.50	4.2
TOTAL:	18.8		14.6
LOAD (AMPS):	52.0		40.5

DEMAND LOAD	14.6 KVA
SPARE CAPACITY	21.5 KVA
SPARE CAPACITY	59.8 AMPS
SPARE CAPACITY	60 %
PHASE BALANCE	
A TO B	88 %
B TO C	82 %
C TO A	93 %

PANEL RPE

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	14000
MINIMUM BUS CAPACITY (A):	125 A	NOTES:	2 SECTION PANEL W/ DOUBLE OR FEED THRU LUGS
MAIN O.C. DEVICE (A):	125 A MB		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	LAB, CASEWORK, U/C REF.	20	1	1270	1400					1	20	LAB, CASEWORK	2
3	LAB, CASEWORK, U/C REF. FR.	20	1			1500	1500			1	20	LAB, MICROSCOPE, U/C REF.	4
5	LAB, URINALYSIS	20	1					400	400	1	20	REC, LAB	6
7	LAB, CASEWORK	20	1	1500	400					1	20	LAB, REFRIGERATOR	8
9	LAB, TOSOH AC1	20	1			500	500			1	20	LAB TOSOH AC1	10
11	REC, LAB	20	1					800	500	1	20	LAB, LH500	12
13	LAB, DXC 600	20	1	1500	1600					2	20	LAB, DxC 600	14,16
15,17	LAB, DxC 600	20	2			1600	1600			2	20	LAB, DxC 600	14,16
15,17	LAB, DxC 600	20	2					1600	400	1	20	REC, LAB	18
19	REC, LAB	20	1	400	1000					1	20	PHARMACY, BULK STOR.	20
21	PHARMACY, VAULT U/C REF.	20	1			400	400			1	20	PHARMACY, STORAGE REF.	22
23	PHARMACY, WORKSTATION	20	1					1000	1500	1	20	PHARMACY, U/C FR.	24
25	PHARMACY, WORKSTATION	20	1	1000	1560					1	20	PHARMACY, SP200	26
27	REC, ROOM A23	20	1			400	400			1	20	REC, ROOM B16	28
29	REC, ROOM B04	20	1					350	400	1	20	REC, ROOM B16	30
31	REC, ROOM D07	20	1	350	350					1	20	REC, ROOM D09	32
33	REC, ROOM C31B	20	1			400	350			1	20	REC, ROOM C31B	34
35	REC, ROOM D12	20	1					350	400	1	20	REC, ROOM D12	36
37	REC, ROOM B05	20	1	350	400					1	20	REC, ROOM B05	38
39	COMPRESSOR	20	1			200	1000			1	20	AUTO DOORS	40
41	B–1, BOILER	20	1					300	700	1	20	GENERATOR HEAT	42
43	AHU–1 & AHU–2 CONTROL PANELS	20	1	500	300					1	20	GENERATOR BATTERY CHARGER	44
45	BOILER PUMP	20	1			500	0			1	20	SPARE	46
47	SPARE	20	1					0	0	1	20	SPARE	48
49	SPARE	20	1	0	0					1	20	SPARE	50
51	SPARE	20	1			0	0			1	20	SPARE	52
53	SPARE	20	1					0	0	1	20	SPARE	54
55	SPARE	20	1	0	0					3	30	I.T. ROOM COOLING EQUIPMENT	56,58,60
57	SPARE	20	1			0	0						
59	SPARE	20	1					0	0				
				CONNECTED LOAD PHASE TOTALS (VA)									
				13880		10750		9100					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Appliance – Dwelling Unit	4.7	0.75	3.53
Kitchen Equipment – Non–Dwelling Unit	1.3	1.00	1.3
Motors	0.0	1.00	0.0
Motors (Largest)	0.3	1.25	0.38
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	16.4	0.50	8.2
TOTAL:	32.7		23.41
LOAD (AMPS):	90.8		64.9

DEMAND LOAD	23.41 KVA
SPARE CAPACITY	21.6 KVA
SPARE CAPACITY	60 AMPS
SPARE CAPACITY	48 %
PHASE BALANCE	
A TO B	79 %
B TO C	78 %
C TO A	62 %

FINAL SUBMISSION / FULLY SPRINKLERED

Revisions	Date

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Drawing Title	PANEL SCHEDULES
Approved: Project Director	
Project Title	CONSTRUCT VA OUTPATIENT CLINIC, PANAMA CITY
Location	PANAMA CITY, FLORIDA
Date	APRIL 2013
Checked	KDE
Drawn	GWS
Project Number	520-326
Building Number	-
Drawing Number	EP603
Dwg. 16 of 19	

Office of Construction and Facilities Management
Department of Veterans Affairs

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