

Switchboard: MDP

Location: MAIN ELECTRIC ROOM 171
Supply From:
Mounting: PAD MOUNTED
Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65000
Mains Type:
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL 1KL1 VIA TRANSFORMER T8	3	100 A	80 A	51700 VA	
2	PANEL 2KL1 VIA TRANSFORMER T9	3	100 A	80 A	51700 VA	
3	PANELS 1EH-LS1, 2EH-LS1	3	100 A	100 A	14198 VA	
4	PANELS 1NL2, 2NL2 VIA TRANSFORMER T7	3	400 A	125 A	55327 VA	
5	PANELS 1NL1, 2NL1 VIA TRANSFORMER T6	3	150 A	125 A	64158 VA	
6	HVAC-513-AHU-1	3	400 A	200 A	129636 VA	
7	PANEL 1EH-ELEV VIA AUTOMATIC TRANSFER SWITCH, ATS-EL	3	400 A	225 A	86424 VA	
8	PANELS 1EH-C1, 2EH-C1 VIA UTOMATIC TRANSFER SWITCH, ATS-CS	3	400 A	225 A	168899 VA	
9	PANELBOARDS 1NH1, 2NH1	3	250 A	225 A	118688 VA	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Total Conn. Load: 740770 VA
Total Amps: 891 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	377157 VA	70.00%	264010 VA	
Lighting	34486 VA	125.00%	43107 VA	Total Conn. Load: 740770 VA
Other	43896 VA	100.00%	43896 VA	Total Est. Demand: 533783 VA
Power	88624 VA	70.00%	62037 VA	Total Conn.: 891 A
Receptacle	84600 VA	55.91%	47300 VA	Total Est. Demand: 642 A
Kitchen	99439 VA	65.00%	64635 VA	
IT Comm equipment	10000 VA	70.00%	7000 VA	
Plumbing	2568 VA	70.00%	1798 VA	

Notes:

Switchboard: EDP

Location: SWITCHGEAR ROOM 172
Supply From: 500 KW GENERATOR
Mounting:
Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14000
Mains Type:
Mains Rating:
MCB Rating: 1000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1						
2	PANEL 1EH-ELEV VIA AUTOMATIC TRANSFER SWITCH ATS-EL	3	400 A	225 A	86424 VA	
3	PANELS 1EH-C1, 2EH-C1 VIA AUTOMATIC TRANSFER SWITCH ATS-CS	3	400 A	225 A	168899 VA	
4	PANELS 1EH-LS1, 2EH-LS1 VIA AUTOMATIC TRANSFER SWITCH VIA ATS-LS	3	100 A	100 A	14198 VA	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Total Conn. Load: 269456 VA
Total Amps: 324 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	135675 VA	70.00%	94902 VA	
Lighting	10845 VA	125.00%	13556 VA	Total Conn. Load: 269456 VA
Other	10416 VA	100.00%	10416 VA	Total Est. Demand: 200045 VA
Power	88124 VA	70.00%	61687 VA	Total Conn.: 324 A
Receptacle	13320 VA	87.54%	11660 VA	Total Est. Demand: 241 A
IT Comm equipment	10000 VA	70.00%	7000 VA	
Plumbing	1176 VA	70.00%	823 VA	

Notes: LOADS SHOWN ARE ONLY FOR PHASE 1 BUILDING (THIS PROJECT). PANELBOARD WILL BE USED FOR FUTURE BUILDINGS' STANDBY AND EMERGENCY POWER.

Branch Panel: 1KL1

Location: ELEC RM 125
Supply From: T8
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes: PROVIDE MAIN SHUNT TRIP C/B

CKT	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	CKT
1KL1:1	RANGE LIGHTS	20	1	40	540		1	20	RECEPT-PANTRY 155	1KL1:2
1KL1:3	RECEPT-GEN PURPOSE	20	1		360	1500	1	20	RECEPT-BLENDER	1KL1:4
1KL1:5	RECEPT-JUICER	20	1			540	720	1	20	RANGE HOOD
1KL1:7	RECEPT-REACH-IN REFRIG	20	1	960	960			1	20	RECEPT-REFRIG/FREEZER
1KL1:9	RECEPT-GEN PURPOSE	20	1		360					1KL1:10
1KL1:11	RECEPT-MICROWAVE	20	1			950	1812	1	20	RECEPT-ICE MACHINE
1KL1:13	RECEPT-COFFEE BREWER	20	1	1320	1380			1	20	RECEPT-REACH-IN FREEZER
1KL1:15,17	DOUBLE BURNER	20	2		1664					1KL1:16
--	--	--	--			1664				1KL1:18
1KL1:19,21	DOUBLE WALL OVEN	40	2	3700	360			1	20	RECEPT-GEN PURPOSE
--	--	--	--			3700				1KL1:20
1KL1:23	RECEPT-GEN PURPOSE	20	1			360	1200	1	20	SINK DISPOSER
1KL1:25	RECEPT-COFFEE MAKER	20	1	1200	1664			2	20	DOUBLE BURNER
1KL1:27,29	GRIDDLE	20	2		1664	1664	--	--	--	1KL1:26,28
--	--	--	--			1664	1664	2	20	GRILL
1KL1:31,33	HOLDING RETHERM UNIT	20	3	1925	1664			--	--	1KL1:30,32
--	--	--	--		1925	3550		3	35	RECEPT-DISHWASHER
--	--	--	--		1925	3550	--	--	--	1KL1:34,36
1KL1:37				3550			--	--	--	
1KL1:39							--	--	--	1KL1:40
1KL1:41										1KL1:42

Total 19263 VA 16387 VA 16049 VA
Total A 161 A 137 A 134 A

Legend:

(*) = FEEDTHRU PANEL LOAD FOR COMPUTATIONAL PURPOSES ONLY. PROVIDE SPACES IN LIEU OF ASSIGNED CIRCUIT BREAKER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	1980 VA	100.00%	1980 VA	
Kitchen	49720 VA	65.00%	32318 VA	Total Conn. Load: 51700 VA
				Total Est. Demand: 34298 VA
				Total Conn.: 144 A
				Total Est. Demand: 95 A

Notes:

1. BLANK CIRCUIT ENTRIES REPRESENT SPARES AND SPACES. PROVIDE 50% SPARE 20A/1P BREAKERS AND 50% SPACES FOR BLANK ENTRIES.

Branch Panel: 2KL1

Location: ELEC RM 225
Supply From: T9
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes: PROVIDE MAIN SHUNT TRIP C/B

CKT	Circuit Description	Trip	P	A	B	C	P	Trip	Circuit Description	CKT
2KL1:1	RANGE HOOD LIGHTS	20	1	40	540		1	20	RECEPT-GEN PURPOSE	2KL1:2
2KL1:3	RECEPT-GEN PURPOSE	20	1		360	1500	1	20	RECEPT-BLENDER	2KL1:4
2KL1:5	RECEPT-JUICER	20	1			540	720	1	20	RANGE HOOD FAN
2KL1:7	RECEPT-REACH-IN REFRIG	20	1	960	960			1	20	RECEPT-REFRIG/FREEZER
2KL1:9	RECEPT-GEN PURPOSE	20	1		360					2KL1:10
2KL1:11	RECEPT-MICROWAVE	20	1			950	1812	1	20	RECEPT-ICE MACHINE
2KL1:13	RECEPT-COFFEE BREWER	20	1	1320	1380			1	20	RECEPT-REACH-IN FREEZER
2KL1:15,17	DOUBLE BURNER	20	2		1664					2KL1:16
--	--	--	--			1664				2KL1:18
2KL1:19,21	DOUBLE WALL OVEN	40	2	3700	360			1	20	RECEPT-GEN PURPOSE
--	--	--	--			3700				2KL1:20
2KL1:23	RECEPT-GEN PURPOSE	20	1			360	1200	1	20	SINK DISPOSER
2KL1:25	RECEPT-COFFEE MAKER	20	1	1200	1664			2	20	DOUBLE BURNER
2KL1:27,29	GRIDDLE	20	2		1664	1664	--	--	--	2KL1:26,28
--	--	--	--			1664	1664	2	20	GRILL
2KL1:31,33	RECEPT-HOLDING RETHERM UNIT	30	3	1925	1664			--	--	2KL1:30,32
--	--	--	--		1925	3550		3	35	DISHWASHER
--	--	--	--		1925	3550	--	--	--	2KL1:34,36
2KL1:37				3550			--	--	--	
2KL1:39							--	--	--	2KL1:40
2KL1:41										2KL1:42

Total 19263 VA 16387 VA 16049 VA
Total A 161 A 137 A 134 A

Legend:

(*) = FEEDTHRU PANEL LOAD FOR COMPUTATIONAL PURPOSES ONLY. PROVIDE SPACES IN LIEU OF ASSIGNED CIRCUIT BREAKER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	1980 VA	100.00%	1980 VA	
Kitchen	49720 VA	65.00%	32318 VA	Total Conn. Load: 51700 VA
				Total Est. Demand: 34298 VA
				Total Conn.: 144 A
				Total Est. Demand: 95 A

Notes:

1. BLANK CIRCUIT ENTRIES REPRESENT SPARES AND SPACES. PROVIDE 50% SPARE 20A/1P BREAKERS AND 50% SPACES FOR BLANK ENTRIES.

Revisions:	Date

ARCHITECT:

C.C. HODGSON
ARCHITECTURAL GROUP



ENGINEERS:

Westlake
Reed
Leskosky

1634 EYE ST, NW, STE 900
WASHINGTON, DC 20006

Drawing Title

ELECTRICAL PANEL SCHEDULES

Approved: Project Director

Project Title

RELOCATE DEMENTIA UNIT

Project Number

VA PN 613-207

Building Number

513

Drawing Number

E-610

Dwg. of --

Location

VAMC MARTINSBURG

Date

08/06/2012
08/06/2012

Checked

GSL

Drawn

DRW

Office of
Construction
and Facilities
Management



Department of
Veterans Affairs