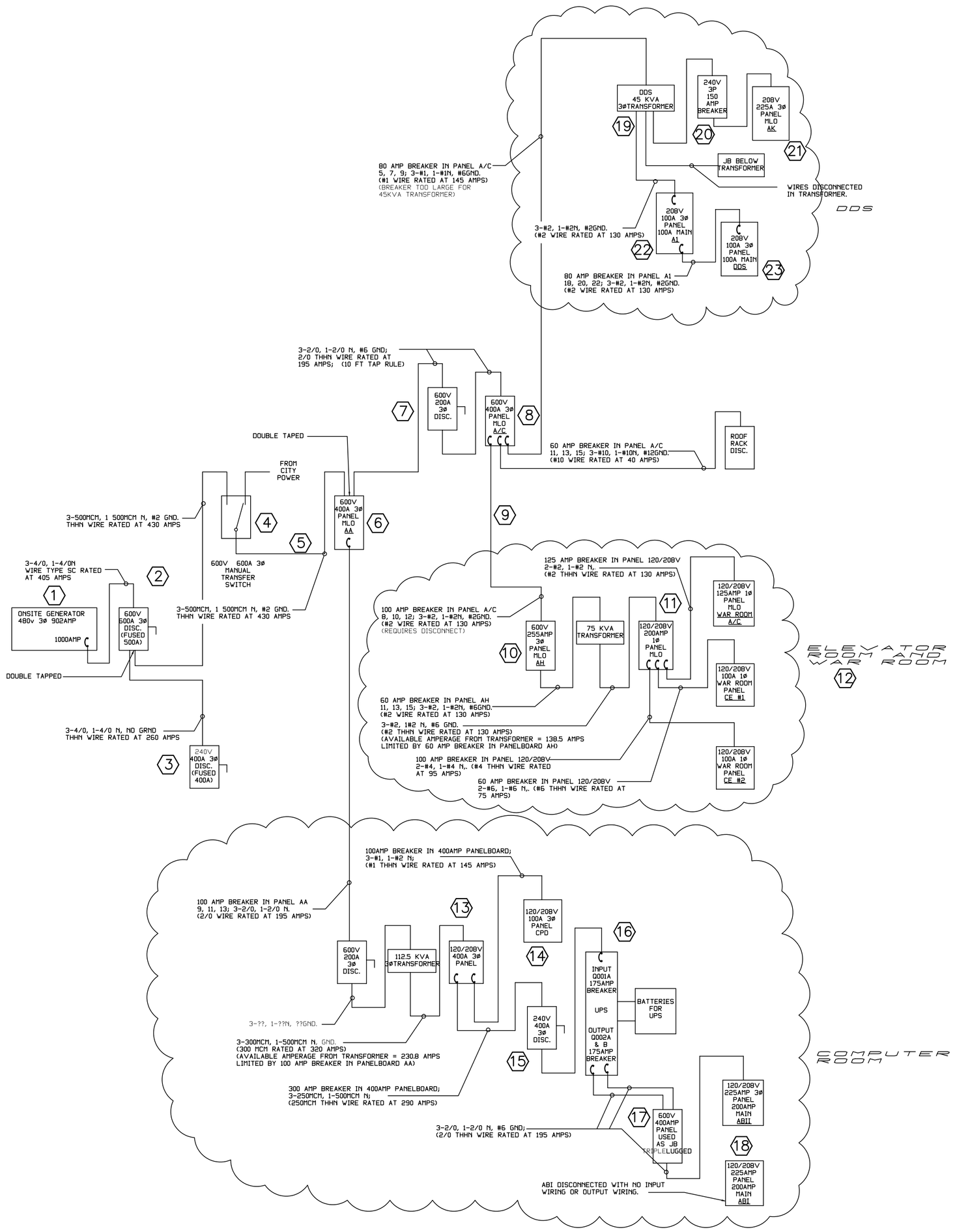

PANEL: AA
LOCATION: COMPUTER ROOM
SERVICE FROM: MANUAL TRANSFER SWITCH

SERVICE: 277/480V, 400A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED 400A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1												2
3	3	HEATER #4	40	3				3	60	DDS (CURRENTLY RUNNING 103 AMPS)	#6	4
5												6
7		BLANK										8
9								3	50	DDS (CURRENTLY RUNNING 10 AMPS)	#6	10
11	2/0	TRANSFORMER IN CLOSET FOR MAIN UPS	100	3								12
13												14
15			20	1				3	20	COMPUTER CONDENSER #1		16
17			20	1								18
19												20
21		COMPUTER CONDENSER #4	15	3				3	15	COMPUTER CONDENSER #2		22
23												24
25												26
27		COMPUTER CONDENSER #3	15	3				3	20	COMPUTER CONDENSER #5		28
29												30

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: MAIN UPS
LOCATION: COMPUTER ROOM
SERVICE FROM: DISCONNECT

SERVICE: 120/208V, 300A 3ø, 3W
ENCLOSURE: SURFACE MOUNTED 400A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	250MCM									BLANK		2
3		MAIN UPS #1	300	3						BLANK		4
5										BLANK		6
7										BLANK		8
9	#1	CPD	100	3						BLANK		10
11										BLANK		12
13		SPARE	20	1						BLANK		14
15		SPARE	20	1						BLANK		16
17		BLANK								BLANK		18

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: CPD
LOCATION: COMPUTER ROOM
FED BY: MAIN UPS PANEL

SERVICE: 120/208V, 100A 3ø, 3W
ENCLOSURE: SURFACE MOUNTED 100A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	#12	TELEPHONE UPS	20	2				2	30	TELEPHONE	#10	2
3												4
5		UNUSED BREAKER	20	2				2	20	UNUSED BREAKER		6
7												8
9			20	1				1	20			10
11			20	1				1	20			12
13			20	1				1	20			14
15			20	1				1	20			16
17			20	1				1	20			18
19			20	1				1	20			20
21			20	1				1	20			22
23			20	1				1	20			24
25			20	1				1	20			26
27			20	1				1	20			28
29			20	1				1	20			30
31	#12	TELEPHONE ROOM	15	2				1	20			32
33												34
35	#10	TELEPHONE ROOM	30	2				3	60	UNUSED BREAKER		36
37												38
39	#12	1ST FLOOR ATRIUM	30	2						BLANK		40
41		BLANK								BLANK		42

SOLID NEUTRAL NEUTRAL WIRE (W) — TOTAL CONNECTED LOAD (kVA) A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: AB II
LOCATION: COMPUTER ROOM
FED BY: MAIN UPS

SERVICE: 120/208V, 100A 3ø, 3W
ENCLOSURE: SURFACE MOUNTED 100A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1												2
3		UNUSED BREAKER	60	3				3	60	UNUSED BREAKER		4
5												6
7												8
9		UNUSED BREAKER	60	3				3	60	UNUSED BREAKER		10
11												12
13							0.6					14
15		UNUSED BREAKER	30	3			0.6	3	30	BROWN PLUG UNDER COMPUTER FLOOR; SETUP TO POWER 120V COMPUTERS NOTHING 3#	#10	16
17							0.6					18
19							1.9					20
21	#10	ORANGE PLUG UNDER COMPUTER FLOOR, NOT USED	30	3			1.9	3	30	BLACK PLUG UNDER COMPUTER FLOOR; SETUP TO POWER 120V COMPUTERS NOTHING 3#	#10	22
23							1.9					24
25					1.9		0.1	1	20	CAMERA	#12	26
27	#10	BLUE PLUG UNDER COMPUTER FLOOR; SETUP TO POWER 120V COMPUTERS NOTHING 3#	30	3	1.9			1	20	UNUSED BREAKER		28
29					1.9			1	20	UNUSED BREAKER		30
31		UNUSED BREAKER	20	1				2	30	UNUSED BREAKER		32
33		UNUSED BREAKER	20	1								34
35		UNUSED BREAKER	20	1				2	30	UNUSED BREAKER		36
37	#12	DDS	20	1	0.1							38
39	#12	#17 PLUG	20	1	0.1			2	30	UNUSED BREAKER		40
41	#12	TELEPHONE WITH MULTIPLE STRIPS	20	1	1.2							42

SOLID NEUTRAL NEUTRAL WIRE (W) — TOTAL CONNECTED LOAD (kVA) A# 4.6kVA B# 4.5kVA C# 5.6kVA — GROUND BUS GROUND WIRE (G)

38.3 AMPS 37.5 AMPS 46.7 AMPS

PANEL: AC
LOCATION: COMPUTER ROOM
SERVICE FROM: DISCONNECT

SERVICE: 277/480V, 225A 3ø, 3W
ENCLOSURE: SURFACE MOUNTED 225A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1		BLANK										2
3		BLANK						3	70	AHU A/C #1 A/C REAR	#6	4
5												6
7	#1	DDS TRANSFORMER	80	3								8
9								3	100	WAR ROOM	#2	10
11												12
13	#10	SWITCH RACK ROOF	60	3								14
15								3	20	AHU A/C #3 A/C FAR	#6	16
17		BLANK										18

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: A1
LOCATION: DDS HALLWAY
SERVICE FROM: 45 KVA TRANSFORMER DDS HALLWAY

SERVICE: 120/208V, 100A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED 100A, 100AMP BREAKER

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1			20	1				1	20			2
3			20	1				1	20			4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11			20	1				1	20			12
13			20	1				1	20			14
15			20	1				1	20			16
17			20	1								18
19			20	1				3	80	DDS PANEL BOARD COMPUTER ROOM	#2	20
21			20	1								22
23		BLANK						1	20			24
25			20	1				1	20			26
27			20	1				1	20			28
29			20	1						BLANK		30

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: DDS COMPUTER ROOM
LOCATION: DDS COMPUTER ROOM
SERVICE FROM: A1 IN DDS HALLWAY

SERVICE: 120/208V, 100A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED 100AMP MAIN BREAKER

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1			20	1				1	20			2
3			20	1				1	20			4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11			20	1				1	20			12
13			20	1				1	20			14
15			20	1				1	20			16
17			20	1				1	20			18
19			20	1				1	20			20
21			20	1				2	30			22
23			20	2								24
25								2	20			26
27			20	2								28
29								2	20			30

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: AH
LOCATION: ELEVATOR ROOM
SERVICE FROM: PANEL AC (8, 10, 12)

SERVICE: 277/480V, 225A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED 225A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B# C#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1			20	1				1	20			2
3			20	1				1	20			4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11								1	20			12
13	#2	75 kVA TRANSFORMER IN ELEVATOR ROOM	60	3				1	20			14
15								1	20			16
17		BLANK						1	20			18
19		BLANK								BLANK		20
21		BLANK								BLANK		22
23		BLANK								BLANK		24
25		BLANK								BLANK		26
27		BLANK								BLANK		28
29		BLANK								BLANK		30

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: ELEVATOR ROOM
LOCATION: ELEVATOR ROOM
SERVICE FROM: 3ø 75 KVA TRANSFORMER ELEVATOR ROOM

SERVICE: 120/208V, 200A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED 200A, MLO

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1			20	1				1	20			2
3			20	1				1	20			4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11			20	1				1	20			12
13			20	1				1	20			14
15			20	1				1	20			16
17			20	1				1	20			18
19			20	1				1	20			20
21	#2	WAR ROOM PANEL A/C	125	2				1	20			22
23								1	20			24
25	#6	WAR ROOM PANEL CE #1	60	2				2	100	WAR ROOM PANEL CE #2	#4	26
27												28
29			20	1				1	20			30

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# C# — GROUND BUS GROUND WIRE (G)

PANEL: WAR ROOM PANEL CE #1
LOCATION: ELEVATOR ROOM
SERVICE FROM: 120/208V PANEL AFTER 75 KVA TRANSFORMER ELEVATOR ROOM

VOLTAGE: 208/120V, 100A 1ø, 3W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
MLO, 22,000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	#10	UPS #2	30	2				2	30	UPS #1	#10	2
3												4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11			20	1				1	20			12

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# — GROUND BUS GROUND WIRE (G)

PANEL: WAR ROOM PANEL CE #2
LOCATION: OLD WAR ROOM
SERVICE FROM: 120/208V PANEL AFTER 75 KVA TRANSFORMER ELEVATOR ROOM

VOLTAGE: 208/120V, 100A 1ø, 3W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
MLO, 22,000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	#12		30	1				1	20			2
3			20	1				1	30		#12	4
5			20	1				1	20			6
7			20	1				1	20			8
9			20	1				1	20			10
11			20	1				1	20			12

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# — GROUND BUS GROUND WIRE (G)

EXISITING PANEL: WAR ROOM PANEL A/C
LOCATION: NEW WAR ROOM HVAC
SUB PANEL

VOLTAGE: 208/120V, 125A 1ø, 3W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR
MLO, 22,000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kVA)	A# B#	LOAD (kVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1								1	20			2
3		HVAC	50	2				1	20			4
5												6
7		HVAC	60	2				2	60	HVAC		8
9		BLANK								BLANK		10
11		BLANK								BLANK		12

SOLID NEUTRAL NEUTRAL WIRE (W) — A# B# — GROUND BUS GROUND WIRE (G)