

Name: A1

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1 1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2 1
1 3	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5		6
7	---		4.0		-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8 1
1 9	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10 1
1 11	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12 1
1 13	RECEPT. - LIVING	1.2		20	1	2	30	2.4	WH-A	14 2
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHU-A	18 2
19	SPARE			20	1	-	-	3.6	---	20
2 21	HPU-A	1.5		20	2	1	20		SPARE	22
23	---		1.5		-	1	20		SPARE	24
1 25	REFRIGERATOR	1.2		20	1	1	20		SPARE	26
27	SPARE			20	1	1	20		SPARE	28
29	SPARE			20	1	1	20		SPARE	30
		10.8	8.8					10.4	10.9	

NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

PANEL A1 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 654 S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	2.6
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	2.9
HEATING	-	5.0
TOTAL KVA		34.54
CALCULATED KVA		22.82
TOTAL DEMAND AMPS		95.10

PANEL A2 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 750 S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	3.2
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	2.9
HEATING	-	5.0
TOTAL KVA		35.09
CALCULATED KVA		23.04
TOTAL DEMAND AMPS		96.01

Name: A2

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1 1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2 1
1 3	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5		6
7	---		4.0		-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8 1
1 9	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10 1
1 11	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12 1
1 13	RECEPT. - LIVING	1.2		20	1	2	30	2.4	WH-A	14 2
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHU-A	18 2
19	SPARE			20	1	-	-	3.6	---	20
2 21	HPU-A	1.5		20	2	1	20	0.8	LTG. RCPT - DINING	22 1
23	---			20	1	-	-		SPARE	24
1 25	REFRIGERATOR	1.2		20	1	1	20		SPARE	26
27	SPARE			20	1	1	20		SPARE	28
29	SPARE			20	1	1	20		SPARE	30
		10.8	8.8					11.2	10.9	

NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

Name: A3

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1 1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2 1
1 3	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5		6
7	---		4.0		-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8 1
1 9	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10 1
1 11	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12 1
1 13	RECEPT. - LIVING	1.2		20	1	2	30	2.4	WH-A	14 2
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHU-A	18 2
19	BATHROOM RECEPT.		0.2	20	1	-	-	3.6	---	20
2 21	HPU-A	1.5		20	2	1	20	0.8	LTG. RCPT - DINING	22 1
23	---			20	1	-	-		SPARE	24
1 25	REFRIGERATOR	1.2		20	1	1	20		SPARE	26
27	SPARE			20	1	1	20		SPARE	28
29	SPARE			20	1	1	20		SPARE	30
		10.8	8.8					11.2	10.9	

NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

PANEL A3 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 792 S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	3.2
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	2.9
HEATING	-	5.0
TOTAL KVA		35.10
CALCULATED KVA		23.05
TOTAL DEMAND AMPS		96.02

PANEL A4 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 774 S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	3.1
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	2.9
HEATING	-	5.0
TOTAL KVA		35.02
CALCULATED KVA		23.02
TOTAL DEMAND AMPS		95.90

Name: A4

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1 1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2 1
1 3	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5		6
7	---		4.0		-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8 1
1 9	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10 1
1 11	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12 1
1 13	RECEPT. - LIVING	1.2		20	1	2	30	2.4	WH-A	14 2
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHU-A	18 2
19	BATHROOM RECEPT.		0.2	20	1	-	-	3.6	---	20
2 21	HPU-A	1.5		20	2	1	20	0.8	LTG. RCPT - DINING	22 1
23	---			20	1	-	-		SPARE	24
1 25	REFRIGERATOR	1.2		20	1	1	20		SPARE	26
27	SPARE			20	1	1	20		SPARE	28
29	SPARE			20	1	1	20		SPARE	30
		10.8	8.8					11.2	10.9	

NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.



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JOB PROGRESS:

ITEM: _____ DATE: _____

REVISIONS:

TAG: _____ DATE: _____

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ALEXANDRIA
 AN APARTMENT COMMUNITY
 FOR
 Bobo Family Group
 HUNTSVILLE, ALABAMA

JOB NUMBER:

DRAWN BY: _____

CHECKED BY: _____

PANELBOARDS

SHEET NO.