PANELBOARD 'PANEL PA' (EXISTING)

SUPPLY VOLTAGE: 208/120 VOLT, 3 PHASE, 4 WIRE — MAIN DEVICE: 225 MLO — TYPE: LIGHTING/APPLIANCE
BUS AMPACITY: 225 AMPERES — A.I.C. RATING: 22,000 AMPERES — MOUNTING: SURFACE
NEUTRAL BUS AMPACITY: 225 AMPERES — BRANCH: NORMAL — ENCLOSURE: NEMA 1

CKT NO.	LOAD DESCRIPTION / LOCATION	LOAD (KVA) PH. A	PH. B	PH. C	NOTES	WIRE GND	WIRE SIZE	WIRE #	WIRE P	DEVICE AMP	DEVICE AMP	DEVICE P	DEVICE #	WIRE SIZE	WIRE GND	NOTES	LOAD (KVA) PH. A	PH. B	PH. C	LOAD DESCRIPTION / LOCATION	CKT NO.
1	REC 238	0.5				12	12	1	1	20	20	1	1	12	12		0.7			REC 211, 215	2
3	REC 238		0.5			12	12	1	1	20	20	2	2	12	12			1.2	1.2	WASHER RM 130C	4
5	REC 236			0.7		12	12	1	1	20											
7	REC 212	0.5				12	12	1	1	20	30	2	2	10	12		1.4	1.4		DRYER RM. 130C	8
9	REC 212		0.5			12	12	1	1	20											
11	REC 212			0.4		12	12	1	1	20	20	1	1	12	12				0.5	REFRIDGERATOR 130C	12
13	REC 212	0.4				12	12	1	1	20	20	1	1	12	12		0.7			REC 212	14
15	REC 212		0.4			12	12	1	1	20	20	1	1	12	12					SPARE	16
17	RE C 212			0.4		12	12	1	1	20	20	1	1	12	12				0.7	REC 212	18
19	FRIDGE 212	0.5				12	12	1	1	20	20	1	1	12	12		0.7			REC 212	20
21	DISHWASHER 212		0.2			12	12	1	1	20	50	2	2	6	10			12.5		ELECTRIC OVEN 130C	22
23	REC 238			0.4		12	12	1	1	20											
25	BATH EXHAUST FAN	0.1				12	12	1	1	20	20	1	1	12	12		0.8			MICROWAVE 130C	26
27	SPARE										20	1	1	12	12			0.7		TV & COMPUTERS 130C	28
29	CIRCULATION PUMP			0.5		12	12	1	1	20	20	1	1	12	12				0.1	CABINET LIGHTS	30
31	SPARE										20	1	1	12	12					SPARE	32
33	SPARE										20	1	1	12	12					SPARE	34
35	SPARE										20	1	1	12	12					SPARE	36
37	PANEL PP	1.8	0.8	1.2				3	3	100	20	1	1	12	12					SPARE	38
											20	1	1	12	12					SPARE	40
											20	1	1	12	12					SPARE	42

NOTES:
1. WITH EQUIPMENT GROUND BUS.
0
3. -
4. -
5. -
6. -
7. -

CONNECTED PHASE TOTALS
A = 8.2 KVA
B = 18.2 KVA
C = 5.8 KVA
HIGHEST CONNECTED PHASE(S)
PHASE B: 152 AMPERES
TOTAL CONNECTED LOAD
89 AMPERES

CONNECTED LOAD SUMMARY
0.1 KVA LIGHTING (INTERIOR AND EXTERIOR)
11.7 KVA RECEPTACLES (GENERAL PURPOSE)
5.8 KVA RECEPTACLES (EQUIPMENT)
1.4 KVA HVAC (HEATING, A/C, AHU'S & EXH. FANS)
13.3 KVA OTHER (ELEV., WATER HTR., KIT. EQUIP.)
0.0 KVA MISCELLANEOUS
32.2 KVA TOTAL CONNECTED LOAD

FALCON#: 17011 - RCCC - HOME CARE LAB — SCHEDULED BY: JRB

PANELBOARD 'PANEL PF' (EXISTING)

SUPPLY VOLTAGE: 208/120 VOLT, 3 PHASE, 4 WIRE — MAIN DEVICE: 225 MLO — TYPE: LIGHTING/APPLIANCE
BUS AMPACITY: 225 AMPERES — A.I.C. RATING: 22,000 AMPERES — MOUNTING: SURFACE
NEUTRAL BUS AMPACITY: 225 AMPERES — BRANCH: NORMAL — ENCLOSURE: NEMA 1

CKT NO.	LOAD DESCRIPTION / LOCATION	LOAD (KVA) PH. A	PH. B	PH. C	NOTES	WIRE GND	WIRE SIZE	WIRE #	WIRE P	DEVICE AMP	DEVICE AMP	DEVICE P	DEVICE #	WIRE SIZE	WIRE GND	NOTES	LOAD (KVA) PH. A	PH. B	PH. C	LOAD DESCRIPTION / LOCATION	CKT NO.
1	CLNG PROJECTOR 128	0.3				12	12	1	1	20	20	1	1	12	12		0.3			CLNG PROJECTOR 126	2
3	REC 128		0.9			12	12	1	1	20	20	1	1	12	12			0.9		REC 126	4
5	REC 127			0.5		12	12	1	1	20	20	1	1	12	12				0.5	REC 128	6
7	REC 137A	0.9				12	12	1	1	20	20	1	1	12	12		0.4			REC 127	8
9	PRINTER 137A		0.4			12	12	1	1	20	20	1	1	12	12			0.4		REC 122, 123	10
11	REC 137B, 130C			1.1		12	12	1	1	20	20	1	1	12	12				1.3	REC 134, 130C	12
13	REC CORRIDOR 120	0.7				12	12	1	1	20	20	1	1	12	12		0.3			CLNG PROJECTOR 129	14
15	CLNG PROJECTOR 124		0.3			12	10	1	1	20	20	1	1	12	12			0.9		REC 129	16
17	CLNG PROJECTOR 125			0.3		12	12	1	1	20	20	1	1	12	12				1.4	REC 124, 125	18
19	REC CORRIDOR 120	1.3				12	12	1	1	20	20	1	1	12	12		0.5			REC MECH. RM. 121	20
21	SPARE					12	12	1	1	20	20	1	1	12	12			0.3		CLNG PROJECTOR 111	22
23	DENTAL EQUIP 131B			0.8		12	12	1	1	20	20	1	1	12	12				0.3	CLNG PROJECTOR 112	24
25	SPARE					12	12	1	1	20	20	1	1	12	12		1.1			REC 111, 112	26
27	CLNG PROJECTOR 117		0.3			12	12	1	1	20	20	1	1	12	12			0.5		REC 113	28
29	REC CORRIDOR 114			1.3		12	12	1	1	20	20	1	1	12	12				0.3	CLNG PROJECTOR 113	30
31	REC 118	0.9				12	12	1	1	20	20	1	1	12	12		0.7			REC OPEN OFFICE 115	32
33	REC 115A		0.9			12	12	1	1	20	20	1	1	12	12			0.7		LTG	34
35	CLNG PROJECTOR 115A			0.3		12	12	1	1	20	20	1	1	12	12				0.5	REFRIGERATOR	36
37	SPACE ONLY					12	12	1	1	20										SPACE ONLY	38
39	OUTSIDE LTG		0.2	0.2		12	12	2	2	20										SPACE ONLY	40
																				SPACE ONLY	42

NOTES:
1. WITH EQUIPMENT GROUND BUS.
2
3. -
4. -
5. -
6. -
7. -

CONNECTED PHASE TOTALS
A = 7.4 KVA
B = 6.7 KVA
C = 8.8 KVA
HIGHEST CONNECTED PHASE(S)
PHASE C: 74 AMPERES
TOTAL CONNECTED LOAD
64 AMPERES

CONNECTED LOAD SUMMARY
1.1 KVA LIGHTING (INTERIOR AND EXTERIOR)
17.1 KVA RECEPTACLES (GENERAL PURPOSE)
4.7 KVA RECEPTACLES (EQUIPMENT)
0.0 KVA HVAC (HEATING, A/C, AHU'S & EXH. FANS)
0.0 KVA OTHER (ELEV., WATER HTR., KIT. EQUIP.)
0.0 KVA MISCELLANEOUS
22.9 KVA TOTAL CONNECTED LOAD

FALCON#: 17011 - RCCC HOME CARE LAB — SCHEDULED BY: JRB

NOTE: E.C. TO LABEL ALL CIRCUITS IN PANELS IN ACCORDANCE WITH RCCC DESIGN MANUAL STANDARD

PANELBOARD 'PANEL PA'

NEC FEEDER DEMAND CALCULATION

LARGEST MOTOR:	0.00	KVA
LEAST NON-COINCIDENT HEATING/COOLING:	0.00	KVA
ELEVATOR DEMAND FACTOR:	1.00	
KITCHEN DEMAND FACTOR:	1.00	
FUTURE ALLOWANCE:	0.00	KVA

PANELBOARD 'PANEL PA' LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
LIGHTING (INTERIOR) :	0.05 KVA	(@ 125%)	0.06 KVA
LIGHTING (EXTERIOR) :	0.00 KVA	(@ 125%)	0.00 KVA
RECEPTACLES (GENERAL PURPOSE):	11.72 KVA	(1ST 10 KVA + 50% OF REST)	10.86 KVA
RECEPTACLES (EQUIPMENT):	5.80 KVA	(@ 100%)	5.80 KVA
A/C UNITS AND HEAT PUMPS	0.00 KVA	(@ 100%)	0.00 KVA
ELECTRIC HEATING:	0.00 KVA	(@ 125%)	0.00 KVA
MOTORS (AHU'S AND FANS):	1.37 KVA	(@ 100%)	1.37 KVA
ELEVATORS:	0.00 KVA	(WITH NEC DEMAND)	0.00 KVA
ELECTRIC WATER HEATING:	0.00 KVA	(@ 100%)	0.00 KVA
KITCHEN EQUIPMENT:	13.30 KVA	(WITH NEC DEMAND)	13.30 KVA
MISCELLANEOUS:	0.00 KVA	(@ 100%)	0.00 KVA
PLUS 25% OF LARGEST MOTOR:			0.00 KVA
MINUS NON-COINCIDENT HEATING/COOLING:			0.00 KVA
FUTURE ALLOWANCE	0.00 KVA		0.00 KVA
TOTAL CONNECTED LOAD:	**32.24 KVA**	TOTAL NEC DEMAND LOAD:	**31.39 KVA**
	89.49 AMPERES		**87.14 AMPERES**

HIGHEST PHASE(S) (CONNECTED) — MINIMUM FEEDER AMPACITY:

PHASE B = 18.19 KVA — 480-VOLT, 3-PHASE: 37.76 AMPERES
PHASE B = 152 AMPERES AT 120 VOLTS — 208-VOLT, 3-PHASE: 87.14 AMPERES

PROJECT NO: 17011
PROJECT NAME: RCCC - HOME CARE LAB
SCHEDULED BY: JRB

PANELBOARD 'PANEL PF'

NEC FEEDER DEMAND CALCULATION

LARGEST MOTOR:	0.00	KVA
LEAST NON-COINCIDENT HEATING/COOLING:	0.00	KVA
ELEVATOR DEMAND FACTOR:	1.00	
KITCHEN DEMAND FACTOR:	1.00	
FUTURE ALLOWANCE:	0.00	KVA

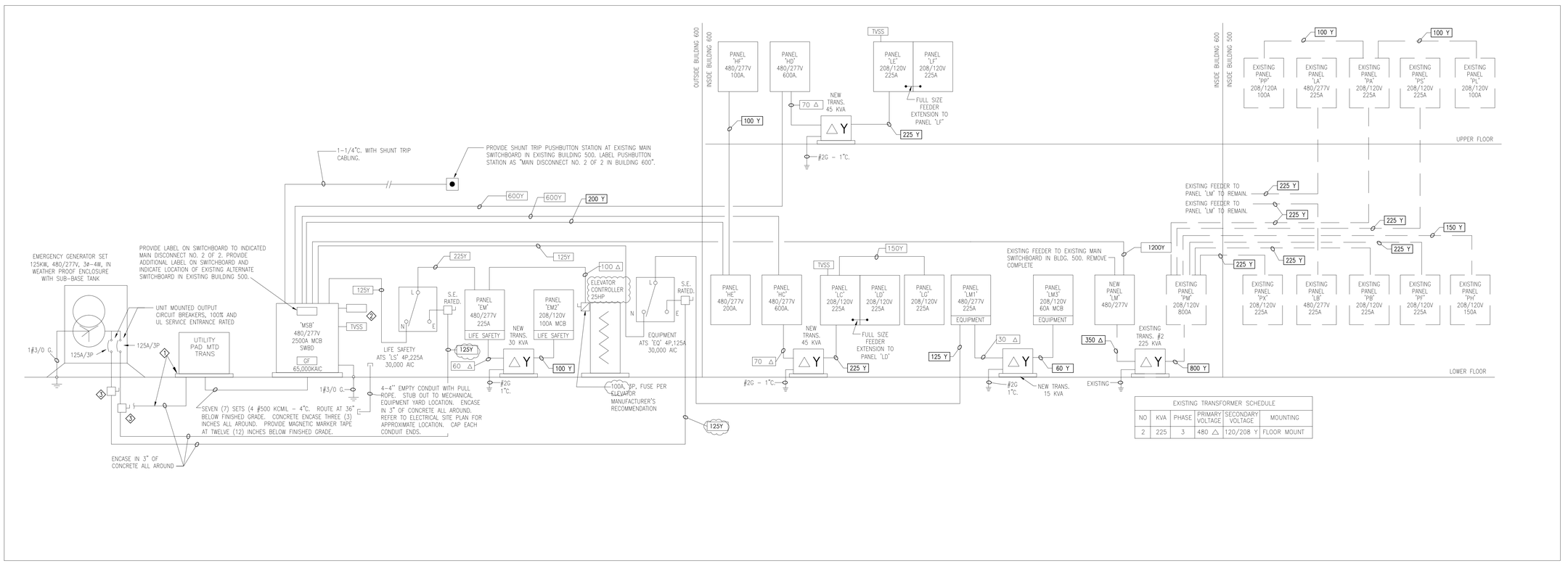
PANELBOARD 'PANEL PF' LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
LIGHTING (INTERIOR) :	0.72 KVA	(@ 125%)	0.90 KVA
LIGHTING (EXTERIOR) :	0.40 KVA	(@ 125%)	0.50 KVA
RECEPTACLES (GENERAL PURPOSE):	17.10 KVA	(1ST 10 KVA + 50% OF REST)	13.55 KVA
RECEPTACLES (EQUIPMENT):	4.66 KVA	(@ 100%)	4.66 KVA
A/C UNITS AND HEAT PUMPS	0.00 KVA	(@ 100%)	0.00 KVA
ELECTRIC HEATING:	0.00 KVA	(@ 125%)	0.00 KVA
MOTORS (AHU'S AND FANS):	0.00 KVA	(@ 100%)	0.00 KVA
ELEVATORS:	0.00 KVA	(WITH NEC DEMAND)	0.00 KVA
ELECTRIC WATER HEATING:	0.00 KVA	(@ 100%)	0.00 KVA
KITCHEN EQUIPMENT:	0.00 KVA	(WITH NEC DEMAND)	0.00 KVA
MISCELLANEOUS:	0.00 KVA	(@ 100%)	0.00 KVA
PLUS 25% OF LARGEST MOTOR:			0.00 KVA
MINUS NON-COINCIDENT HEATING/COOLING:			0.00 KVA
FUTURE ALLOWANCE	0.00 KVA		0.00 KVA
TOTAL CONNECTED LOAD:	**22.88 KVA**	TOTAL NEC DEMAND LOAD:	**19.61 KVA**
	63.51 AMPERES		**54.43 AMPERES**

HIGHEST PHASE(S) (CONNECTED) — MINIMUM FEEDER AMPACITY:

PHASE C = 8.82 KVA — 480-VOLT, 3-PHASE: 23.59 AMPERES
PHASE C = 74 AMPERES AT 120 VOLTS — 208-VOLT, 3-PHASE: 54.43 AMPERES

PROJECT NO: 17011
PROJECT NAME: RCCC HOME CARE LAB
SCHEDULED BY: JRB



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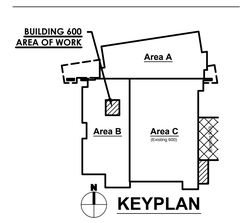
ELECTRICAL SCHEDULES



RCCC OTA HOME SIMULATION LAB

1333 JAKE ALEXANDER BLVD S
SALISBURY, NC

DRAWN BY: JRB
CHECKED BY: JRB
DATE: 03.20.17
PROJECT #: 1710

SHEET NUMBER
E2
OF: