LOAD CALCULATION	PNL"A"	PNL "B"	PNL"C"	PNL"D"	PNL"P"	SERVICE
SQUARE FEET OF CONDITION SPACE	2,185	2,053	1,390	3,854	0	9,482
GENERAL LIGHTING AT 3 W.S.F	6,555	6,159	4,170	11,562	0	28,446
SMALL APPLIANCES CIRCUITS	2	2	5	1	0	10
SMALL APPLIANCES LOAD	3,000	3,000	7,500	1,500	0	15,000
RANGE / OVEN OR COOK TOP	0	0	0	10,000	0	10,000
DOUBLE OVEN	0	6,000	0	0	0	6,000
DRYER	10,000	0	0	0	0	10,000
HOT WATER HEATER	0	0	0	0	0	0
SPRINKLER PUMP	0	0	0	0	1,000	1,000
POOL EQUIPMENT	0	0	0	0	2,000	2,000
SPA EQUIPMENT	0	0	0	0	1,000	1,000
OTHER LIGHTING	0	0	1,000	0	1,000	2,000
WASHER	3,000	0	0	0	0	3,000
REFRIGERATOR	1,600	2,900	1,000	2,500	0	8,000
DISHWASHER	0	4,800	0	0	0	4,800
DISPOSAL	900	1,800	900	0	0	3,600
MICROWAVE	0	1,500	0	0	0	1,500
GARAGE DOOR OPENER & GATE MOTOR	1,800	0	2,700	0	0	4,500
WHIRPOOL	0	1,200	0	0	0	1,200
OTHER LOAD 120V (EXHAUST FAN, FOUNTAIN)	900	1,700	1,800	300	0	4,700
LOAD 240V (E.V CHARGER, ELEVATOR, KITCHENETTE, STEAM UNIT)	32,000	12,000	16,000	14,500	0	74,500
CONNECTED LOAD WHITOUT A/C LOAD	59,755	41,059	35,070	40,362	5,000	181,246
FIRST 10000 AT 100%	10,000	10,000	10,000	10,000	5,000	10,000
REST AT 40%	19,902	12,424	10,028	12,145	0	68,498
A/C LOAD AT 100%	12,912	12,912	10,000	25,824	0	61,648
TOTAL	42,814	35,336	30,028	47,969	5,000	140,146
AT 240 VOLT	178	147	125	200	21	584

PANEL "A"

VOLTS: 120/240V, 1PH, 3W
BUS: 200 A
MAIN: M.L.O.
AIC: 10,000

TYPE: LOAD CENTER
ENCLOSURE: NEMA 1
MOUNTING: FLUSH
SERVING: HOUSE

CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
1	STAFF BATHROOM	1/2	12	*	20	1		2	60	12912	4	1	AHU-1	2
3	STAFF OUTLETS	1/2	14	*	15	1								4
5	HALL OUTLETS	1/2	14	*	15	1		2	60	6720	8	1	CU-1	6
7	L.C.P. GARAGE EAST MODULE 1	1/2	12	*	20	1								8
9	POWDER #1	1/2	12	*	20	1		2	40	8000	8	3/4	E.V CHARGER	10 GFI
11	GARAGE OUTLETS	1/2	12	*	20	1								12
13	HALL OUTLETS	1/2	14	*	15	1		2	40	8000	8	3/4	E.V CHARGER	14 GFI
15	FAMILY ROOM OUTLETS	1/2	14	*	15	1								16
17	L.C.P. GARAGE EAST MODULE 2	1/2	12	*	20	1		1	20	8000	12	1/2	KITCHEN SPARK	18
19	KITCHEN CONTROL	1/2	12	900	200	1		1	20	1500	12	1/2	WASHING MACHINE	20 GFI
21	L.C.P. GARAGE EAST MODULE 3	1/2	12	*	20	1		2	30	5000	10	1/2	DRYER	22 GFI
23	L.C.P. GARAGE EAST MODULE 4	1/2	12	*	20	1								24
25	L.C.P. GARAGE EAST MODULE 5	1/2	12	*	20	1		2	30	5000	10	1/2	DRYER	26 GFI
27	L.C.P. GARAGE EAST MODULE 6	1/2	12	*	20	1								28
29	SMALL APPLIANCE	1/2	12	1500	20	1		1	20	1500	12	1/2	WASHING MACHINE	30 GFI
31	ICE MAKER	1/2	12	800	20	1		1	20	1500	12	1/2	LAUNDRY OUTLET	32 GFI
GFI 33	EXHAUST FAN BBQ	1/2	12	900	20	1		1	20	900	12	1/2	GARAGE DOOR OPENER	34 GFI
GFI 35	SMALL APPLIANCE	1/2	12	1500	20	1		1	20	900	12	1/2	GARAGE DOOR OPENER	36 GFI
37	L.C.P. GARAGE EAST MODULE 7	1/2	12	*	20	1		1	20	800	12	1/2	REFRIGERATOR	38 GFI
39	L.C.P. GARAGE EAST MODULE 8	1/2	12	*	20	1		2	60	*	6	1	SUB PANEL "A1"	40
41	L.C.P. GARAGE EAST MODULE 9	1/2	12	*	20	1								42

GFI BREAKER

* SEE LOAD CALCULATION

USE OF ROMEX SHALL BE PERMITED

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD

PANEL "MDP"

VOLTS: 120/240 V, 1 PH, 3 W
BUS: 600 A
MAIN: M.L.O.
AIC: 22,000

TYPE: LOAD CENTER
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
SERVING: HOUSE

CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
1	PANEL "A"	SEE RISER		*	200	2		2	200	*	SEE RISER		PANEL "D"	2
3														4
5	PANEL "B"	SEE RISER		*	200	2		2	150	*	SEE RISER		PANEL "P"	6
7														8
9	PANEL "C"	SEE RISER		*	150	2							SPACE	10
11														12

* SEE LOAD CALCULATION

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD

PANEL "P"

VOLTS: 120/240V, 1PH, 3W
BUS: 150 A
MAIN: 150A M.C.B.
AIC: 10,000

TYPE: LOAD CENTER
ENCLOSURE: NEMA 3R
MOUNTING: SURFACE
SERVING: POOL

	CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT	
GFI	1	GENERATOR CHARGER	1/2	12	1500	20	1		2	20	1500	12	1/2	BLOWER 2 HP	2	
GFI	3	EXTERIOR OUTLET	1/2	12	*	20	1								4	GFI
GFI	5	SPA PUMP	1/2	12	2000	20	2		2	20	1500	12	1/2	POOL PUMP 1.5 HP	6	
	7														8	GFI
GFI	9	JACUZZI PUMP	1/2	12	1500	20	2		1	20	500	12	1/2	POOL LIGHTS	10	GFI
	11															
GFI	13	STEAM UNIT	3/4	8	7500	40	2		2	40	4000	8	3/4	WET SAUNA	12	GFI
	15														14	
GFI	17	RECEPTACLE	1/2	12	1000	20	1		–	–	–	–	–	SPACE	16	
GFI	19	HEATER CONTROL	1/2	14	150	15	1		–	–	–	–	–	SPACE	18	
									1	20	500	12	1/2	SPA LIGHTS	20	

* SEE LOAD CALCULATION

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD

PANEL "A1"

VOLTS: 120/240V, 1PH, 3W
BUS: 60 A
MAIN: M.L.O.
AIC: 10,000

TYPE: LOAD CENTER
ENCLOSURE: NEMA 3R
MOUNTING: SURFACE
SERVING: HOUSE

	CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
GFI	1	SPRINKLER PUMP	1/2	12	1000	20	2		–	–	–	–	–	SPACE	2
	3								–	–	–	–	–	SPACE	4
GFI	5	WATER FEATURE	1/2	12	1000	20	2		–	–	–	–	–	SPACE	6
	7								–	–	–	–	–	SPACE	8

TOTAL LOAD @ 100%: 2,360 VA, 10 AMPS

INSTALLATION NOTES:

- INSTALLATION SHALL COMPLY WITH NFPA 70 2020ED (NEC)
- INSTALLATION SHALL COMPLY WITH FLORIDA BUILDING CODE FBC 2023 8TH EDITION
- GENERATOR EXHAUST TERMINATION POINT SHALL BE 10FT FROM HOUSE ROOF OVERHANG SOFFI VENTS, WINDOW AND DOOR AND COMPLY WITH FBC-R-M1602.2
- ANY EXISTING AND/OR NEW ROOF OVERHANG SOFFI VENTS WITHIN 10FT OF GENERATOR EXHAUST TERMINATION POINT WILL BE CLOSED/SEALED AND REOPEN AT OTHER LOCATION. ALL ELECTRICAL / PLUMBING / MECHANICAL EQUIPMENT SHALL BE ABOVE REQUIRED ELEVATION AS PER CHAPTER 11C-5(F)(4)
- GAS SHALL BE INSTALLED AT LEAST 10 FT FROM ANY EXTERNAL SOURCE OF IGNITION (e.g. ELECTRICAL EQUIPMENTS, A/C COMPRESSORS, ETC.)

GENERATOR PACKAGE UNIT

OUTLINE SPECIFICATIONS

THIS GENERATOR PACKAGE SHALL CONSIST OF A 120/240V, 100 KW, SINGLE PHASE, SOUND ATTENUATED, FULLY PACKAGED, GUARDIAN AIR-COOLED GAS ENGINE GENERATOR SET

INCLUDE:
BATTERY CHARGING ALTERNATOR
MICROPROCESSOR CONTROL
FACTORY LOADBANK TESTED
200A MAINLINE CIRCUIT BREAKER
SOUND ATTENUATED, WEATHERPROOF ENCLOSURE, 67db @ 23 FEET
COMPOSITE MOUNTING PAD
PRE-WIRED EXTERNAL CONNECTION BOX AND CONDUITS, UL 2200 LISTED
NATURAL GAS OR LP GAS FUEL
ELECTRONIC GOVERNOR
ENCLOSED CRITICAL GRADE MUFFLER

OUTLINE SPECIFICATIONS

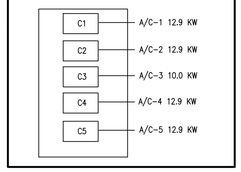
ONE AUTOMATIC TRANSFER SWITCH 600A, 2 POLES, 120/240 VOLTS, SINGLE PHASE, 22K AIC IN A NEMA 3R ENCLOSURE.

IF THE LOAD OF GENERATOR EXCEED 100 KW THE SMART TRANSFER SWITCH WILL DISCONNECT THE LOAD CONNECTED THRU LOAD SHED MODULE C1, C2, C3, C4 AND C5. THE MAX. POSSIBLE LOAD TO BE CONNECTED IS 100,000 VA

A PERMANENT SIGN SHALL BE PLACED AT THE ELECTRICAL SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE LOCATION OF ON-SITE OPTIONAL STANDBY POWER SOURCE.

A PERMANENT SIGN SHALL BE PLACED AT THE TRANSFER SWITCH LOCATION INDICATING THE SEQUENCE OF OPERATION TO START THE GENERATOR AND TRANSFER THE ELECTRICAL LOADS.

DIGITAL LOAD MODULE DIAGRAM



A/C UNITS 1,2,3,4 & 5 LOADS ARE CONNECTED THRU LOAD SHED MODULES AND WILL BE DISCONNECTED AS NEEDED

8

NOTE:
ARC. FAULT CB INTERRUPTER PROTECTION.
ALL BRANCH CIRCUITS THAT SUPPLY 125 V, SINGLE PHASE 15 AND 20 AMP OUTLETS SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER AS PER NEC 210.12 (A)

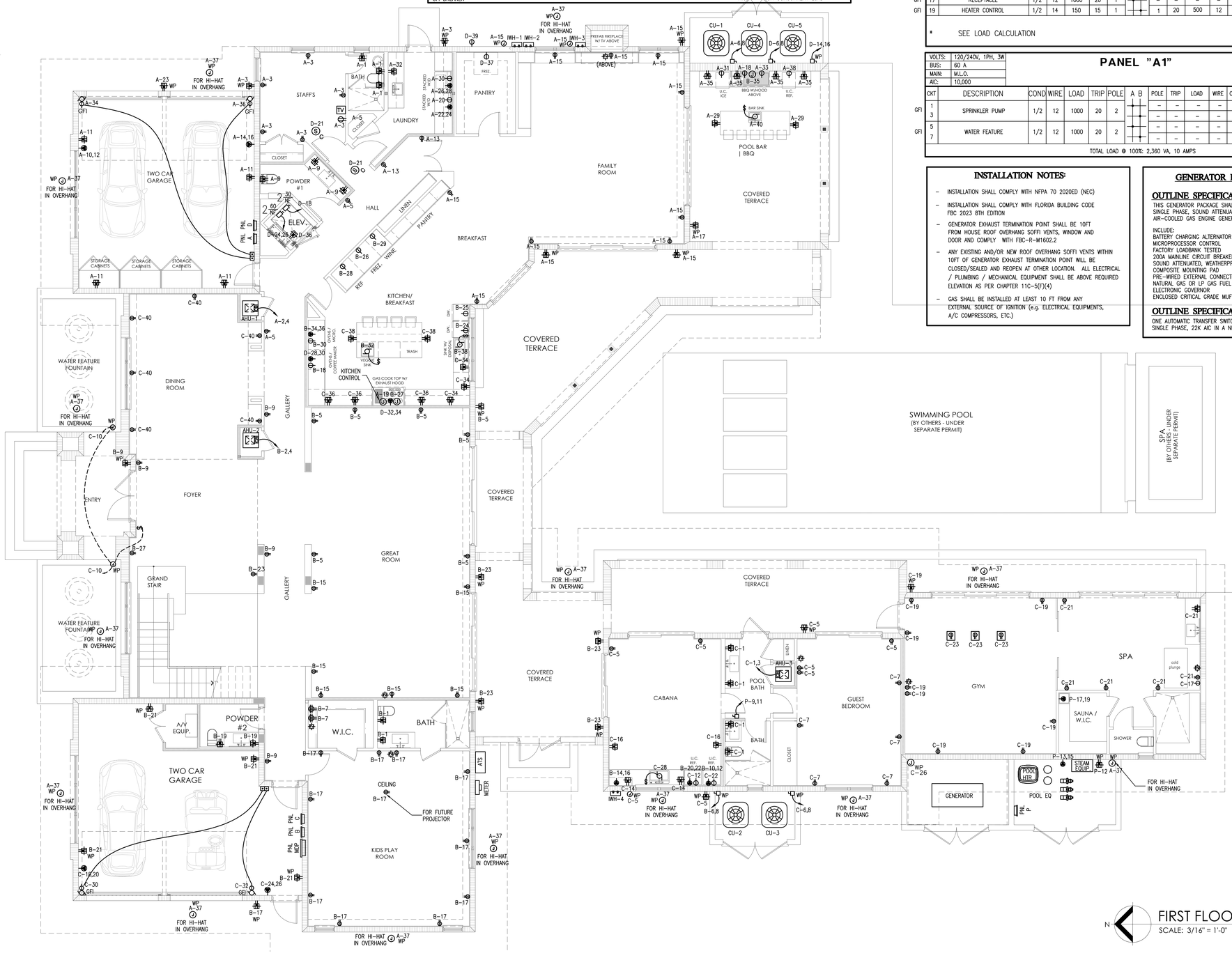
NOTE:
INSTALL 4 CONDUCTORS TO ALL COOKING UNITS AND DRYER TO COMPLY WITH NEC 250.140

NOTE:
NOT LESS THAN 90% OF THE LAMPS SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS/W OR NOT LESS THAN 65 LUMENS/W. FBC RE R404

STAIR ILLUMINATION 1 F.C MINIMUM AS PER RES. R303.7

NOTE:
NOTE SMOKE ALARMS REQUIRED INSIDE & OUTSIDE ALL SLEEPING AREAS. FBC 907. CARBON MONOXIDE ALARM REQUIRED. FBC R315

NOTE:
PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12



N

FIRST FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"

PACHECO ARCHITECTURE
PACHECO ARCHITECTURE, PLLC.
AA26002619
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NEW RESIDENCE FOR:

9601 RESIDENCE

9601 S.W. 67th AVENUE - PINECREST, FLORIDA 33156

revisions

B.	BDC.	06-14-2026

date 02/12/2025
issued 02/12/2025
drawn NA
checked RM
project no. 2436

sheet no.

E-2B

Digitally signed by Rolando Maqueira
DN: CN=Rolando Maqueira, dn:Qualifier=A01410000001842C90174C00208FC2, O=MAQUEIRA ENGINEERING CONSULTANTS, C=US
Date: 2026.06.11 12:04:39-04'00'

ROLANDO MAQUEIRA
LICENSE
No. 55482
STATE OF FLORIDA
PROFESSIONAL ENGINEER

06-11-2026

PANEL "B"

VOLTS:	120/240V, 1PH, 3W
BUS:	200 A
MAIN:	M.L.O
AIC:	10,000
TYPE:	LOAD CENTER
ENCLOSURE:	NEMA 1
MOUNTING:	FLUSH
SERVING:	HOUSE

CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
1	PLAY ROOM BATHROOM	1/2	12	*	20	1		2	60	12912	4	1	AHU-2	2
3	L.C.P. GARAGE WEST MODULE 1	1/2	12	*	20	1								4
5	GREAT ROOM OUTLETS	1/2	14	*	15	1		2	40	6264	8	3/4	CU-2	6
7	L.C.P. GARAGE WEST MODULE 2	1/2	12	*	20	1								8
9	GALLERY OUTLETS	1/2	14	*	20	1		2	40	4000	8	3/4	FUTURE APPLIANCE	10
11	L.C.P. GARAGE WEST MODULE 3	1/2	12	*	20	1								12
13	L.C.P. GARAGE WEST MODULE 4	1/2	12	*	20	1		2	40	4000	8	3/4	FUTURE APPLIANCE	14
15	GREAT ROOM OUTLETS	1/2	14	*	15	1								16
17	PLAY ROOM OUTLETS	1/2	14	*	15	1		1	20	800	12	1/2	COFFEE MACHINE	18 GFI
19	POWDER #2	1/2	12	*	20	1		2	40	4000	8	3/4	FUTURE APPLIANCE	20
21	GARAGE OUTLETS	1/2	12	*	20	1								22
23	COVERED TERRACE OUTLETS	1/2	14	*	15	1		1	20	1200	12	1/2	DISHWASHER	24 GFI
25 GFI	DISHWASHER	1/2	12	1200	20	1		1	20	1000	12	1/2	REFRIGERATOR	26 GFI
27 GFI	EXHAUST FAN KITCHEN	1/2	12	900	20	1		1	20	1000	12	1/2	REFRIGERATOR	28 GFI
29 GFI	WINERY	1/2	12	900	20	1		1	20	1500	12	1/2	MICROWAVE	30 GFI
31	L.C.P. GARAGE WEST MODULE 5	1/2	12	*	20	1		1	20	900	12	1/2	DISPOSAL	32 GFI
33	L.C.P. GARAGE WEST MODULE 6	1/2	12	*	20	1		1	40	6000	8	3/4	OVEN	34
35	L.C.P. GARAGE WEST MODULE 7	1/2	12	*	20	1								36
37	L.C.P. GARAGE WEST MODULE 8	1/2	12	*	20	1		1	20	900	12	1/2	DISPOSAL	38 GFI
39	L.C.P. GARAGE WEST MODULE 9	1/2	12	*	20	1		1	20	*	12	1/2	L.C.P. GARAGE WEST MODULE 10	40

* SEE LOAD CALCULATION
GFI BREAKER

USE OF ROMEX SHALL BE PERMITED

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD

PANEL "C"

VOLTS:	120/240V, 1PH, 3W
BUS:	150 A
MAIN:	M.L.O
AIC:	10,000
TYPE:	LOAD CENTER
ENCLOSURE:	NEMA 1
MOUNTING:	FLUSH
SERVING:	HOUSE

CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
1	POOL BATH	1/2	12	*	20	1		2	50	10000	6	1	AHU-3	2
3	SPACE	–	–	–	–	–								4
5	CABANA/GUEST OUTLETS	1/2	14	*	15	1		2	30	4032	10	1/2	CU-3	6
7	GUEST OUTLETS	1/2	14	*	15	1								8
9	SPACE	–	–	–	–	–		1	20	1000	12	1/2	FOUNTAIN	10
11	SPACE	–	–	–	–	–		1	20	1000	12	1/2	REFRIGERATOR	12 GFI
13	SPACE	–	–	–	–	–		1	20	1500	12	1/2	SMALL APPLIANCE	14
15	SPACE	–	–	–	–	–		1	20	1500	12	1/2	SMALL APPLIANCE	16
17	ICE BATH	1/2	12	800	20	1		2	40	8000	8	3/4	E.V CHARGER	18 GFI
19	GYM OUTLETS	1/2	14	*	15	1								20 GFI
21	SPA OUTLETS	1/2	14	*	15	1		1	20	1000	12	1/2	REFRIGERATOR	22 GFI
23	WALKING MACHINE	1/2	12	*	20	1		2	40	8000	8	3/4	E.V CHARGER	24 GFI
25	L.C.P. UPSTAIRS RAIL MODULE 1	1/2	12	*	20	1								26 GFI
27	L.C.P. UPSTAIRS RAIL MODULE 2	1/2	12	*	20	1		1	20	900	12	1/2	DISPOSAL	28 GFI
29	L.C.P. UPSTAIRS RAIL MODULE 3	1/2	12	*	20	1		1	20	900	12	1/2	GARAGE DOOR	30 GFI
31	L.C.P. UPSTAIRS RAIL MODULE 4	1/2	12	*	20	1		1	20	900	12	1/2	GARAGE DOOR	32 GFI
33	GATE DOOR OPENER	1/2	12	900	20	1		1	20	1500	12	1/2	SMALL APPLIANCE	34
35	ENTRANCE LIGHTING	1/2	12	500	20	1		1	20	1500	12	1/2	SMALL APPLIANCE	36
37	LANDSCAPING LOAD	1/2	12	500	20	1		1	20	1500	12	1/2	SMALL APPLIANCE	38
39	LANDSCAPING LOAD	1/2	12	500	20	1		1	20	1500	12	1/2	DINING ROOM OUTLETS	40
41	EXTERIOR LIGHTING	1/2	14	*	15	1		1	15	*	14	1/2	EXTERIOR LIGHTING	42

* SEE LOAD CALCULATION
GFI BREAKER

USE OF ROMEX SHALL BE PERMITED

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD

PANEL "D"

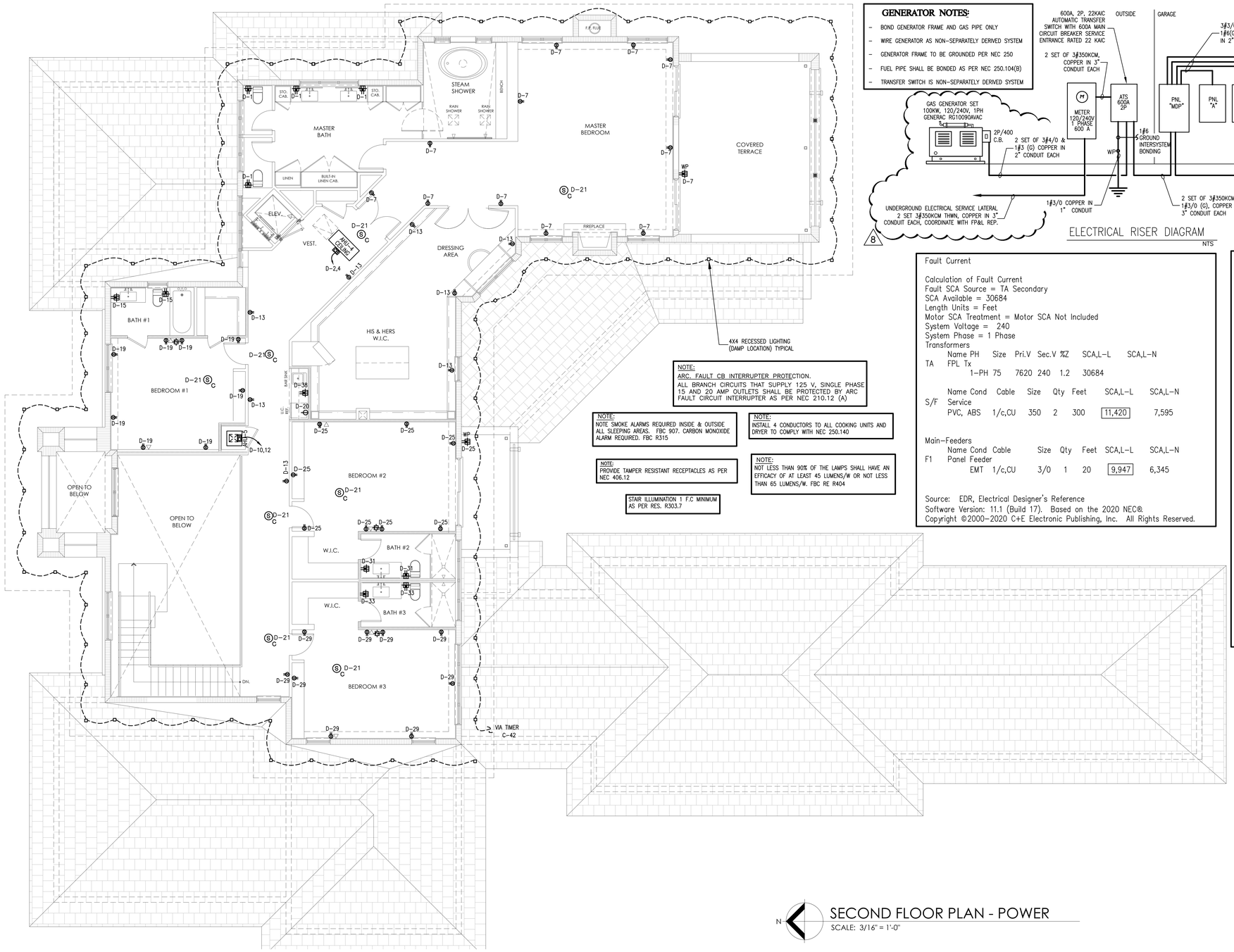
VOLTS:	120/240V, 1PH, 3W
BUS:	200 A
MAIN:	M.L.O
AIC:	10,000
TYPE:	LOAD CENTER
ENCLOSURE:	NEMA 1
MOUNTING:	FLUSH
SERVING:	HOUSE

CKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	CKT
1	MASTER BATHROOM	1/2	12	*	20	1		2	60	12912	4	1	AHU-4	2
3	L.C.P. UPSTAIRS CLOSET MODULE 1	1/2	12	*	20	1								4
5	L.C.P. UPSTAIRS CLOSET MODULE 2	1/2	12	*	20	1		2	40	6264	8	3/4	CU-4	6
7	MASTER OUTLETS	1/2	14	*	15	1								8
9	L.C.P. UPSTAIRS CLOSET MODULE 3	1/2	12	*	20	1		2	60	12912	4	1	AHU-5	10
11	L.C.P. UPSTAIRS CLOSET MODULE 4	1/2	12	*	20	1								12
13	HIS/HER CLOSET OUTLETS	1/2	14	*	15	1		2	40	6264	8	3/4	CU-5	14
15	BATHROOM #1	1/2	12	*	20	1								16
17	L.C.P. UPSTAIRS CLOSET MODULE 5	1/2	12	*	20	1		1	20	300	12	1/2	ELEVATOR CAB	18
19	BEDROOM #1 OUTLETS	1/2	14	*	15	1		1	20	800	12	1/2	U.C. REFRIGERATOR	20 GFI
21	SMOKE DETECTORS	1/2	14	*	15	1		–	–	–	–	1/2	SPACE	22
23	L.C.P. UPSTAIRS CLOSET MODULE 6	1/2	12	*	20	1		2	30	4000	10	1/2	ELEVATOR MOTOR	24
25	BEDROOM #2 OUTLETS	1/2	14	*	15	1								26
27	L.C.P. UPSTAIRS CLOSET MODULE 7	1/2	12	*	20	1		2	40	6000	8	3/4	OVEN	28
29	BEDROOM #3 OUTLETS	1/2	14	*	15	1								30
31	BATHROOM 2	1/2	12	*	20	1		2	50	4000	6	1	COOK TOP	32
33	BATHROOM 3	1/2	12	*	20	1								34
35	L.C.P. UPSTAIRS CLOSET MODULE 8	1/2	12	*	20	1		1	15	*	14	1/2	ELEVATOR LIGHTING/POWER	36
37	FREEZER	1/2	12	900	20	1		1	20	1500	12	1/2	SMALL APPLIANCE	38
39	WATER HEATER SPARK	1/2	12	*	20	1		–	–	–	–	–	SPACE	40
41	L.C.P. UPSTAIRS CLOSET MODULE 9	1/2	12	*	20	1		1	20	*	12	1/2	L.C.P. UPSTAIRS CLOSET MODULE 10	42

* SEE LOAD CALCULATION
GFI BREAKER

USE OF ROMEX SHALL BE PERMITED

GFI: PROVIDE GFI CIRCUIT BREAKER
N.C: NON CONCURRENT LOAD



NOTE:
ARC- FAULT CB INTERRUPTER PROTECTION.
ALL BRANCH CIRCUITS THAT SUPPLY 125 V, SINGLE PHASE 15 AND 20 AMP OUTLETS SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER AS PER NEC 210.12 (A)

NOTE:
NOTE SMOKE ALARMS REQUIRED INSIDE & OUTSIDE ALL SLEEPING AREAS. FBC 907. CARBON MONOXIDE ALARM REQUIRED. FBC R315

NOTE:
INSTALL 4 CONDUCTORS TO ALL COOKING UNITS AND DRYER TO COMPLY WITH NEC 250.140

NOTE:
PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12

NOTE:
NOT LESS THAN 90% OF THE LAMPS SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS/W OR NOT LESS THAN 65 LUMENS/W. FBC RE R404

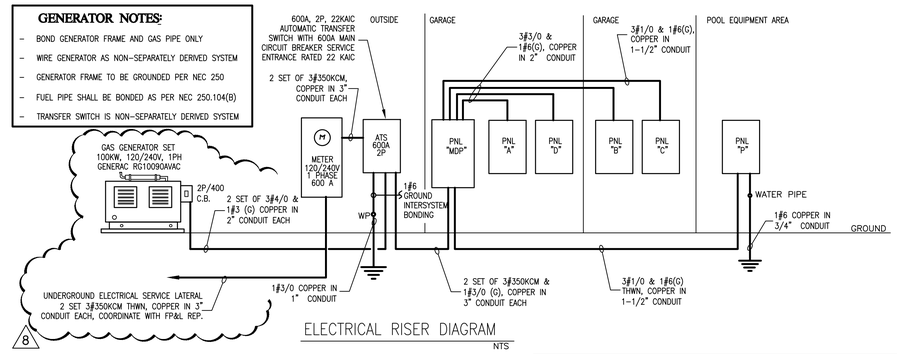
STAIR ILLUMINATION 1 F.C MINIMUM AS PER RES. R303.7

N

SECOND FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"

GENERATOR NOTES:

- BOND GENERATOR FRAME AND GAS PIPE ONLY
- WIRE GENERATOR AS NON-SEPARATELY DERIVED SYSTEM
- GENERATOR FRAME TO BE GROUNDED PER NEC 250
- FUEL PIPE SHALL BE BONDED AS PER NEC 250.104(B)
- TRANSFER SWITCH IS NON-SEPARATELY DERIVED SYSTEM



ELECTRICAL RISER DIAGRAM
NTS

Fault Current

Calculation of Fault Current
Fault SCA Source = TA Secondary
SCA Available = 30684
Length Units = Feet
Motor SCA Treatment = Motor SCA Not Included
System Voltage = 240
System Phase = 1 Phase
Transformers

	Name	PH	Size	Pri.V	Sec.V	%Z	SCA,L-L	SCA,L-N
TA	FPL Tx	1-PH	75	7620	240	1.2	30684	

	Name	Cond	Cable	Size	Qty	Feet	SCA,L-L	SCA,L-N
S/F	Service							
		PVC, ABS	1/c,CU	350	2	300	11,420	7,595

Main-Feeders

	Name	Cond	Cable	Size	Qty	Feet	SCA,L-L	SCA,L-N
F1	Panel Feeder							
		EMT	1/c,CU	3/0	1	20	9,947	6,345

Source: EDR, Electrical Designer's Reference
Software Version: 11.1 (Build 17). Based on the 2020 NEC®.
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FPL

February 10, 2026

OMAR SIDONI
9601 SW 67TH AVE
PINECREST, FL 33156

Re: Available Fault Current for 9601 SW 67TH AVE

Dear OMAR SIDONI:

Thank you for contacting FPL about the available fault current at 9601 SW 67TH AVE. Based on the plans you have provided dated February 10 2026, the maximum available fault current at the transformer secondary terminals is estimated to be 30684 symmetrical amperes at 120/240 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 10 amp type KS fuse. The primary service voltage is 7.6kV L-G. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me.

Sincerely,

Eduardo Martinez
Eduardo Martinez
Distribution Engineer

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NEW RESIDENCE FOR:
9601 RESIDENCE
9601 S.W. 67th AVENUE - PINECREST, FLORIDA 33156

revisions
B BDC 06-9-2026

date 02/12/2025
issued 02/12/2025
drawn NA
checked RM
project no. 2436

sheet no.
E-3B

ROLANDO MAQUEIRA LICENSE No. 55482 STATE OF FLORIDA PROFESSIONAL ENGINEER
06-11-2026