

401 LINDEN ROAD
SUITE 600
MIAMI BEACH, FLORIDA 33139
P 786.446.9620

PROJECT NO. 2308

CLIENT
RONALDO F.L. LLC
1200 BISCAYNE BLVD.
MIAMI, FLORIDA 33181

REVISIONS

SFS ENGINEERING GROUP, INC.
STRUCTURAL ENGINEER
185 NW 108TH STREET
MIAMI BEACH, FLORIDA 33168ARPE ENGINEERING, LLC
MEP ENGINEERING
2020 PONCE DE LEON BLVD., SUITE 1002
CORAL GABLES, FLORIDA 33134ALL LANDSCAPE DATA, INC.
LANDSCAPE ARCHITECT
4459 NW 9TH COURT
CORAL GABLES, FLORIDA 33133NEW LEAF ENVIRONMENTAL, LLC
ISA CERTIFIED ARBORIST
57 SILVER SPRINGS DRIVE
KEY LARGO, FLORIDA 33037TERRA CIVIL ENGINEERING, LLC
CIVIL ENGINEERING
4011 WEST FLAGLER ST., SUITE 404
MIAMI, FLORIDA 33134CASA OHAD
6200 SW 123RD TERRACE PINECREST, FLORIDA 33156

PROJECT DESCRIPTION

SINGLE FAMILY RESIDENCE

FAD ARCHITECTURE, LLC
DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS
INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY
FAD ARCHITECTURE, LLC, AND THE CONSULTANTS THERE
UNDER CONTRACT TO THE PROJECT, ARE HEREBY
SUBMITTED TO THE PROJECT. THE ARCHITECT AND THE
CONSULTANTS SHALL BE DEEMED TO HAVE AGREED TO THE
TERMS AND CONDITIONS OF THE CONSULTING AGREEMENT
AND SHALL RETAIN ALL COMMON LAW,
STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING
COPYRIGHTS.

SCALE:

FELIPE ALVARADO AR 91841

PHASE
CONSTRUCTION DOCUMENTSISSUE DATE:
DECEMBER 12, 2023SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET:

E-201

HOUSE DEMAND LOAD CALCULATION SERVICE						
SF	8100 SQFT	QTY.	UNIT	VA	CONNECTED KVA	TOTAL DEMAND KVA
120/240V 1 PHASE						
GEN. LTR./RECEPT. (NEC 220.12 220.14(J))	8100 SQFT	3		24.3		
SMALL APPLIANCES (NEC 220.52(A))	4 CKT(S)	1500		6.0		
LANDSCAPE LTR.	4 EA	1000		4.0		
LAUNDRY RCP(TS) (NEC 220.16(B))	1 EA	1500		1.5		
TOTAL				35.8		
BATHROOM RECEPTACLES						
DEMAND LIGHTING 220.42 (FIRST 3 KW AT 100% REMAINING AT 35%)						14.5 KVA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.53						
CLOTHES WASHER	2 EA	1500		3.0		
GAS WATER HEATER	4 EA	300		1.2		
TWH MINI 6	1 EA	5700		6.7		
DISHWASHER	2 EA	1200		2.4		
DISPOSAL	1 EA	800		0.8		
HOOD	2 EA	400		0.8		
UC ICE MAKER	1 EA	600		0.6		
UC REFRIGERATOR	1 EA	600		0.6		
BBO GAS GRILL	1 EA	300		0.3		
FREEZER	1 EA	1400		1.4		
REFRIGERATOR	1 EA	1400		1.4		
POOL/SPA EQUIPMENT	1 EA	13400		13.4		
GARAGE DOOR	2 EA	800		1.6		
SHADES	7 EA	800		5.6		
ENTRY GATE	2 EA	800		1.6		
TV LIFT	1 EA	1000		1.0		
MASTER TOILET FEATURE	2 EA	1300		2.6		
WINE CELLAR	1 EA	1000		1.0		
CAR CHARGER	2 EA	9600		19.2		
DEMAND LOAD 75% 220.53						48.2 KVA

EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.55						
COOKING APPLIANCES TABLE						
MICROWAVE DRAWER	1 EA	1500		1.5		
GAS COOKTOP	1 EA	300		0.3		
DOUBLE OVEN	1 EA	8000		8.0		
DEMAND LOAD 55% 220.55						5.4 KVA

EQUIPMENT AT 100% NON DEMAND FACTOR						
CLOTHES GAS DRYER	2 EA	500		1.0		
** HEATING LOAD (240V, 1-PHASE)						56.0
** COOLING LOAD (240V, 1-PHASE)						27.8
TOTAL CONNECTED LOAD						56.0 KVA
TOTAL DEMAND LOAD						124.0 KVA

124.0 KVA @240V, 1Ø = 516.8 AMPS

** NON-CONCURRENT LOAD

PANEL B - HOUSE DEMAND LOAD						
SF	2500 SQFT	QTY.	UNIT	VA	CONNECTED KVA	TOTAL DEMAND KVA
120/240V 1 PHASE						
GEN. LTR./RECEPT. (NEC 220.12 220.14(J))	2500 SQFT	3		7.5		
SMALL APPLIANCES (NEC 220.52(A))	3 CKT(S)	1500		4.5		
LAUNDRY RCP(TS)	1 EA	1500		1.5		
TOTAL				13.5		
BATHROOM RECEPTACLES						
DEMAND LIGHTING 220.42 (FIRST 3 KW AT 100% REMAINING AT 35%)						6.7 KVA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.53						
REFRIGERATOR	1 EA	1400		1.4		
FREEZER	1 EA	1400		1.4		
CAR CHARGER	1 EA	9600		9.6		
DISHWASHER	2 EA	1200		2.4		
DISPOSAL	1 EA	800		0.8		
CLOTHES WASHER	2 EA	1500		3.0		
SHADES	3 EA	800		2.4		
HOOD	1 EA	400		0.4		
DEMAND LOAD 75% 220.53						16.1 KVA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.55						
COOKING APPLIANCES TABLE						
GAS COOKTOP	1 EA	300		0.3		
DOUBLE OVEN	1 EA	8000		8.0		
DEMAND LOAD 55% 220.55						4.6 KVA
EQUIPMENT AT 100% NON DEMAND FACTOR						
GAS CLOTHES DRYER	2 EA	300		0.6		
** HEATING LOAD (240V, 1-PHASE)						11.0
** COOLING LOAD (240V, 1-PHASE)						4.6
TOTAL CONNECTED LOAD						11.6 KVA
TOTAL DEMAND LOAD						35.3 KVA

35.3 KVA @240V, 1Ø = 162.0 AMPS

** NON-CONCURRENT LOAD

CIRCUITS 42										MAIN BREAKER: NA AMP(S)										1 PHASE											
PANEL: MOP										MAIN LUGS: 800 AMP(S)										3 WIRE											
NMB1 LOCATION GARAGE										K.A.I.C.: 42 AMP(S)										X 240/120V											
MOUNTED FLUSH SURFACE										X										FEED THRU											
C Y N O	I D E N T I F I C A T I O N	W I R E	O M B	C O N D	C I R C U I T B R E A K E R	LOADPANE (90A)										B R E A K E R	W I R E	O M B	C O N D	I D E N T I F I C A T I O N	C Y N O										
						TRIP					POLES											TRIP					POLES				
						A					B											C					D				
						TRIP					POLES											TRIP					POLES				
1	PANEL A	3/0	6	2"	200	2	25.9	0.1							2	160	1/0	6	1-1/2"	PANEL F	4										
2							17.0	0.1							2	120	1/0	6	1-1/2"	TRONT LANDSCAPE L'S	4										
3	PANEL B	3/0	6	2"	200	2	23.0	0.1							1	100	12	12	3/4"	TRONT LANDSCAPE L'S	8										
4							23.0	0.1							1	100	12	12	3/4"	TRONT LANDSCAPE L'S	10										
5	PANEL C	3/0	6	2"	200	2	23.0	0.1							1	100	12	12	3/4"	TRONT LANDSCAPE L'S	12										
6							12	12	10/2	20	1	10	0.8		1	100	12	12	3/4"	TRONT LANDSCAPE L'S	13										
7	PERFUSE OUTLET														1	100	12	12	3/4"	PERFUSE INTRIGATE	14										
8	PERFUSE OUTLET														1	100	12	12	3/4"	PERFUSE INTRIGATE	15										
9	SPACE	12	12	10/2	20	1									1	20	12	12	20"	FUTURE INTRIGATE	16										
10	SPACE																			SPACE	17										
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