ELECTRICAL SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

LIGHTING

SYMBOL	DESCRIPTION	DEVICE MTG. HT.
	LINEAR LIGHT FIXTURE	SEE FIXTURE SCHEDULE
	WALL MOUNTED FIXTURE	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE	SEE FIXTURE SCHEDULE
	SURFACE MOUNTED FIXTURE	SEE FIXTURE SCHEDULE
	PENDANT FIXTURE	SEE FIXTURE SCHEDULE
EXIT	CEILING EXIT SIGN / CEILING BUG-EYE. ARROWS INDICATE CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE

SWITCHES

SYMBOL	DESCRIPTION	DEVICE MTG. HT.
$	WALL SWITCH SPST, 20A, 120/277V	48" AFF
$2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$4	4-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL BOX DIMMER SWITCH	48" AFF
$K	KEY OPERATED WALL SWITCH	48" AFF
$T	WALL SWITCH WITH ADJUSTABLE COUNTDOWN TIMER	48" AFF
$3D	3-WAY WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$LV	LOW VOLTAGE WALL SWITCH	48" AFF
$OS	WALL MOUNTED OCCUPANCY SENSOR SWITCH.	48" AFF
$V	WALL MOUNTED VACANCY SENSOR SWITCH.	48" AFF
OS	OCCUPANCY SENSOR	CEILING

WIRING DEVICES & POWER

SYMBOL	DESCRIPTION	DEVICE MTG. HT. U.N.O.
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF U.N.O.
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF U.N.O.
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	6" ABOVE COUNTERTOP OR CUSTOM MOUNTING HEIGHT
GFCI	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF U.N.O.
GFCI	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R	6" ABOVE COUNTERTOP OR CUSTOM MOUNTING HEIGHT
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	18" AFF U.N.O.
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	6" ABOVE COUNTERTOP OR CUSTOM MOUNTING HEIGHT
GFCI WP/WR	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R WITH WEATHERPROOF ENCLOSURE WEATHER RESISTANT	18" AFF U.N.O.
GFCI WP/WR	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R WITH WEATHERPROOF ENCLOSURE WEATHER RESISTANT	ROOF MOUNTED 18" AFF U.N.O.
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R FLOOR MOUNTED - FLUSH MOUNTED UNO	-
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R CEILING MOUNTED - FLUSH MOUNTED UNO	-
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF U.N.O.
J	JUNCTION BOX - SIZE AND MOUNTING AS REQUIRED	-
	PANELBOARD	-
30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCLOSURE U.N.O.; AMPS/POLES AS INDICATED	+54" U.N.O.
F 30/3/*/1	DISCONNECT SWITCH - 30/3/*/1. INDICATES 30A, 3-POLE, * FUSE SIZE, NEMA TYPE, F DENOTES FUSIBLE SWITCH	+54" U.N.O.
	MOTOR	-
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
	HOMERUN CONDUIT MINIMUM ¾ " U.N.O. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.	-
	CONDUIT CONCEALED IN WALLS OR ABOVE CEILING	-
	CONDUIT BELOW GRADE OR UNDER FLOOR	-
	CONDUIT EXPOSED	-

TELEPHONE/DATA

SYMBOL	DESCRIPTION	DEVICE MTG. HT. U.N.O.
	4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR ONE WALL MOUNTED TELEPHONE/DATA OUTLET. STUB 1" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX. COORDINATE EXACT REQUIREMENTS WITH VENDOR.	18" AFF

MISCELLANEOUS

SYMBOL	DESCRIPTION	DEVICE MTG. HT.
	TV OUTLET - PROVIDED BY OTHER	AS REQUIRED
	GROUND BAR	-
T	STEP-DOWN TRANSFORMER	-
SPD	SURGE PROTECTIVE DEVICE	-
AP	WIRELESS ACCESS POINT LOCATED ABOVE CEILING.	-
CCTV	CLOSED CIRCUIT VIDEO SURVEILLANCE CAMERA	-

GENERAL ELECTRICAL NOTES

A. ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE ELECTRICAL IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.

B. THE DRAWING ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEAD ROOM, OR SPACE CONDITIONS AT ALL POINTS. WHERE HEAD ROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR FOR PROPER EXECUTION OF THE WORK.

C. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL ELECTRICAL ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, PLUMBING, MECHANICAL, ETC. DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE ARCHITECT/ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.

D. VERIFY SERVICE CHARACTERISTICS, LOCATION AND CONNECTION WITH TELEPHONE AND ELECTRIC UTILITY COMPANIES PERFORM ALL WORK RELATED TO SERVICE IN STRICT ACCORDANCE WITH UTILITY Co. STANDARDS AND REQUIREMENTS.

E. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEM WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMAN-LIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.

F. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT HIS EXPENSE, ALL ELECTRICAL WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.

G. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS ASSOCIATION DUES, ROYALTIES, AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS HE SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OR ORDINANCES.

H. WIRE UP COMPLETE ALL THE A/C EQUIPMENT AND CONTROLS AS DIRECTED BY A/C CONTRACTOR. CONTROL WIRING SHALL BE SEPARATE RACEWAY FROM POWER WIRING.

I. PROVIDE MEANS "FURNISH AND INSTALL".

J. COORDINATE WORK WITH WORK OF OTHER TRADES TO AVOID ALL CONFLICTS.

K. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.

L. PROVIDE LIGHT FIXTURES AS PER OWNER SELECTION OR SCHEDULE.

M. PROVIDE ALL WIRING DEVICES (NO 1/2 SIZE BREAKERS)

N. ALL WIRE(S) SHALL BE COPPER, IN RACEWAY, UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

O. RACEWAYS: ALL UNDERGROUND RACEWAYS TO BE PVC, INSIDE CONCRETE SLAB ENT WITH APPROVED FITTING, INSIDE PARTITION EMT, ENT, AND ROMEX WIRE WHERE ALLOWED PER NEC. FOR FLOOR PENETRATION USE ONLY EMT.

P. SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL

Q. TESTING: THE CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS DIRECTED BY THE ARCHITECT AND BY AUTHORITIES HAVING JURISDICTION, FURNISHING ALL EQUIPMENT AND NECESSARY PERSONNEL AND ELECTRIC THE ENTIRE INSTALLATION SHALL BE TESTED FOR SHORTS, GROUNDS THE CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS AND OPEN CIRCUITS, AND ALL DEFECTS SHALL BE DEMONSTRATED TO BE IN PROPER WORKING AND OPERATING CONDITION TO THE COMPLETE SATISFACTION OF THE ENGINEER.

R. GUARANTEES: ALL EQUIPMENT AND MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE BY THE OWNER.

S. BEFORE BIDDING THE JOB THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITION AND THE SCOPE OR WORK AS DIRECTED BY THE ARCHITECT AND THESE DRAWINGS.

T. AT COMPLETION OF THE JOB THE ELECTRICAL CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF DRAWINGS SHOWING THE EXACT ELECTRICAL INSTALLATION.

U. ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT SLATED TO BE DEMOLISHED AND THEIR ASSOCIATED WIRING INSIDE THE REMOVED WALLS SHALL BE DISCONNECTED AND REMOVED.

V. IDENTIFY CLEARLY ON A TYPED WRITTEN FORM ALL CIRCUITS AND EQUIPMENT CORRESPONDING WITH THE PLANS AND PANEL SCHEDULE AND ATTACH INSIDE THE PERTAINING PANEL.

BID NOTE

THE DRAWINGS DO NOT INDICATE EXISTING INSTALLATIONS OTHER THAN TO IDENTIFY MODIFICATIONS OR EXTENSIONS THERETO. VISIT THE SITE AND ASCERTAIN THE EXISTING CONDITIONS. REVIEW CONSTRUCTION DETAILS OF THE EXISTING PORTION OF THE BUILDING DURING THE SITE INSPECTION. INCLUDE ALL WORK REQUIRED TO REMOVE OR MODIFY PORTIONS OF THE EXISTING INSTALLATION IN ORDER TO ACCOMMODATE THE NEW WORK. FAILURE TO COMPLY
WITH THIS WILL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT IN CONNECTION WITH REMOVING OR MODIFYING ANY PART OF THE EXISTING INSTALLATION OR INSTALLING ANY NEW OR TEMPORARY WORK.

ELECTRICAL ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITIES HAVING JURISDICTION
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BOD	BASIS OF DESIGN
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CB,C/B OR CKT BKR	CIRCUIT BREAKER
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT T.V.
CLG	CEILING
DFA	DOWN FROM ABOVE
ECB	ENCLOSED CIRCUIT BREAKER
ELEC	ELECTRIC
E	EMERGENCY - RED
EMS	ENERGY MANAGEMENT SYSTEM
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
EXR	EXISTING TO BE RELOCATED OR REMOVED
F	FUSE
FA	FIRE ALARM
FACP, FAP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FTU	FAN TERMINAL UNIT
G, GND	GROUND (EQUIPMENT)
GEF	GENERAL EXHAUST FAN
GEN	GENERATOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HV	HIGH VOLTAGE
HWAT	HEAT TRACE
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
JB	JUNCTION BOX
LTG	LIGHTING
LTS	LIGHTS
LSI	ELECTRONIC TRIP
LSIA	ELECTRONIC TRIP WITH ALARM
LSIG	ELECTRONIC TRIP WITH GROUND FAULT
LV	LOW VOLTAGE
AFCI	ARC - FAULT CIRCUIT INTERRUPTER
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNT OR MOUNTED
N	NEW DEVICE
NC (N.C.)	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NONFUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO (N.O.)	NORMALLY OPEN
(ON)	HOME RUN FOR CKT IS "ON" THE SAME CKT. ELSEWHERE ON THE PLAN
PB	PULL BOX
PNL	PANEL
PWR	POWER
R	RELOCATED DEVICE
RCPT(S) OR RECEPT	RECEPTACLE(S)
RF	RETURN AIR FAN
SEF	SMOKE EXHAUST FAN
SF	SUPPLY AIR FAN
SO (S.O.)	SPACE ONLY
SP	SPARE
ST (S.T.)	SHUNT TRIP
SW	SWITCH
TC	TIME CLOCK
TEL	TELEPHONE
TF	TRANSFER FAN
TP	TAMPER PROOF
TV	TELEVISION
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTAGE
VV	VARIABLE VOLUME UNIT
W	WIRE
W/	WITH
WP	WEATHER PROOF (NEMA 3R ENCLOSURE)
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
+xx	MOUNTING HEIGHT IN INCHES. AFF U.N.O.

NOTES:

1. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

MISCELLANEOUS

(2) - NOTES: DENOTES "SEE NOTE NO. 2"

- MARK (ID) NUMBER FOR EQUIPMENT

REF. 2/E2.02 - DENOTES: REFERENCE DETAIL 2 IN DRAWING (SHEET) E2.02

XX-XX — PANEL AND CIRCUIT

X — SWITCHING DESIGNATION

X — FIXTURE TYPE

NOTE: THIS INFORMATION MAY NOT ALWAYS BE INDICATED IN THE FORMAT SHOWN, DUE TO SPACE RESTRICTIONS ON THE FLOOR PLAN.

GOVERNING CODES AND STANDARDS

THE SCOPE OF WORK CARRIED OUT ON THIS PROJECT SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS INCLUIDING BUT NOT LIMITED TO:

1. FLORIDA BUILDING CODE (FBC) 8TH EDITION (2023).
2. FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023).
3. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC-2020).
4. NFPA 101 - LIFE SAFETY CODE (2021).
5. NFPA 72 - FIRE ALARM CODE (2019).

ELECTRICAL SHEET INDEX

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E-3	PROPOSED FIRST FLOOR ELECTRICAL PLAN - AREA A	
E-4	PROPOSED FIRST FLOOR ELECTRICAL PLAN - AREA B	
E-5	PROPOSED SECOND FLOOR ELECTRICAL PLAN - AREA A	
E-6	ELECTRICAL RISER DIAGRAMS	
E-7	ELECTRICAL SCHEDULES & NOTES	
E-8	ELECTRICAL SCHEDULES	

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
agdmiami.com
dev-enquiries@agdmiami.com

R&D ENGINEERS, LLC

R&D ENGINEERS LLC
7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
rdengineers.com
drv-dd@rdengineers.com

NEW SINGLE FAMILY RESIDENCE
AGD CALISTONE LLC
10840 SW 67 Ave MIAMI, FL 33156

ISSUES
JUN 2024 1ST ISSUED

R&D Project No.	2025.512
DRAWN BY	RV
CHECKED BY	RD
SCALE	AS NOTED
R&D ENGINEERS REGISTRY No.	37312

SEAL

RICARDO A DIAZ LICENSE No. 76981 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by RICARDO A DIAZ
Date: 2025.05.09 11:20:34 -04'00'

RICARDO A. DIAZ
PROFESSIONAL ENGINEER
PE 76981

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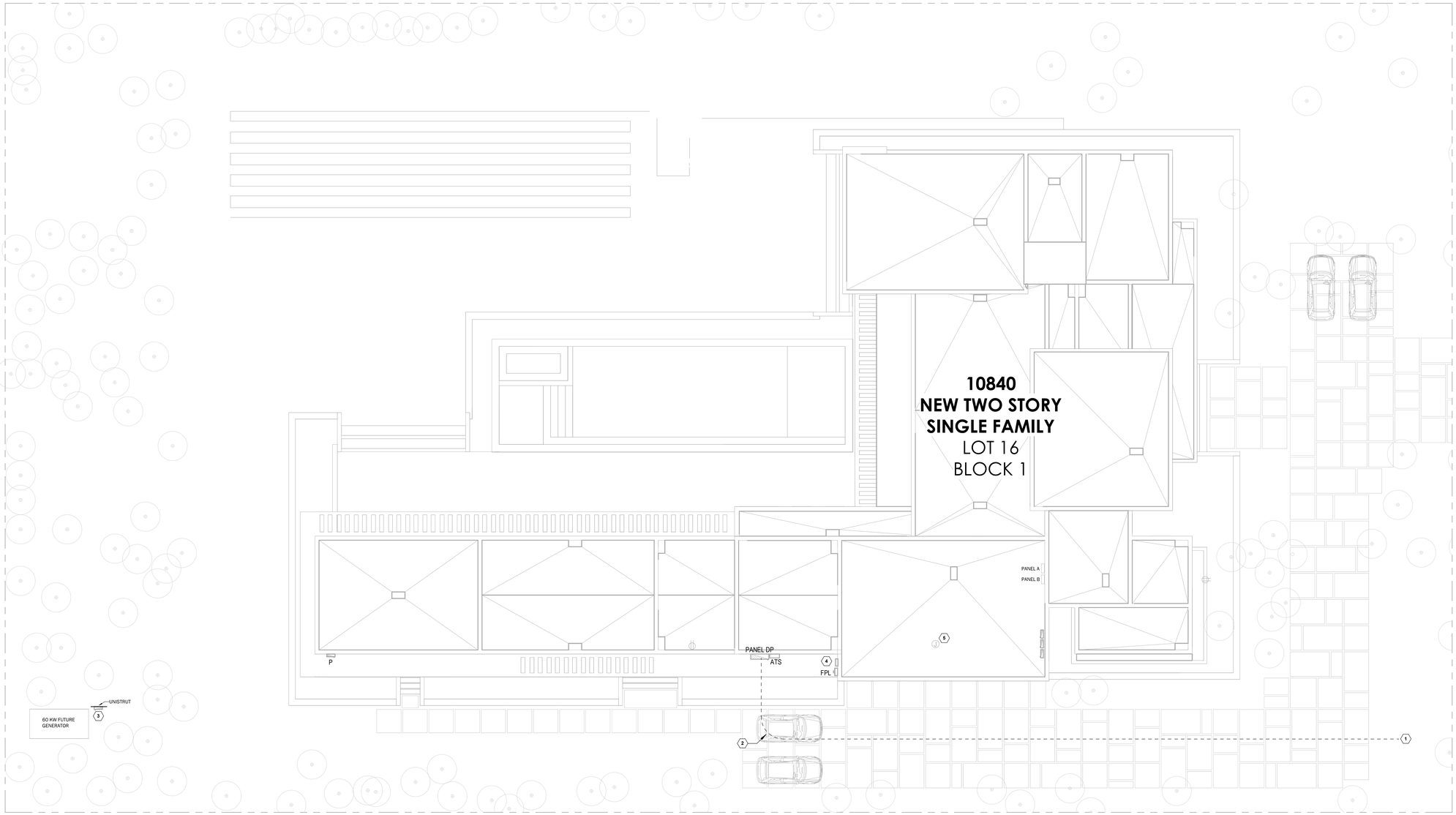
SHEET No.

E-1

GENERAL INFORMATION ,ELECTRICAL



1 SITE PLAN - ELECTRICAL
SCALE: 3/32" = 1'-0"

LEGEND NOTES

1. TO APPROXIMATE LOCATION OF UTILITY COMPANY POLE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION OF SERVICE CONDUITS. CONTRACTOR/OWNER SHALL COORDINATE CONNECTION WITH UTILITY COMPANY REPRESENTATIVE & VERIFY IF EXISTING TRANSFORMER IS CAPABLE OF ACCEPTING THE PROPOSED ADDITIONAL LOAD. IF EXISTING TRANSFORMER REQUIRES REPLACEMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR, UNDER DIRECTION FROM THE OWNER, TO COORDINATE REPLACEMENT WITH UTILITY COMPANY REPRESENTATIVE AND PROVIDE ALL EQUIPMENT & MATERIAL NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION.
2. PROPOSED UNDERGROUND ROUTING OF POWER SERVICE CONDUCTORS. COORDINATE EXACT ROUTING WITH CIVIL AND STRUCTURAL DRAWINGS. FOR QUANTITY AND SIZES, REFER TO ELECTRICAL RISER DIAGRAM. ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL FIND FEASIBLE ROUTING IN THE FIELD.
3. FUTURE 250A PORTABLE GENERATOR CONNECTION TAP BOX.
4. EMPTY J-BOX FOR FUTURE SOLAR PV ADJACENT TO METER. PROVIDE 2" EMPTY CONDUIT STUB UP AT ROOF, PROVIDE CAP.
5. EMPTY J-BOX FOR FUTURE SOLAR PANEL. TERMINATE ADJACENT TO METER. PROVIDE 2" EMPTY CONDUIT.

GENERAL NEW WORK NOTES

A. FURNISH AND INSTALL ALL WIRING AND RACEWAYS TO COMPLETE CIRCUITING AS INDICATED ON THESE DRAWINGS.

B. COORDINATE EXACT LOCATION AND HEIGHT OF ALL RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS.

C. FINAL LOCATION OF ALL RECEPTACLES SHALL BE COORDINATED WITH MILLWORK. REFER TO ARCHITECTURAL DRAWINGS.

D. ALL ELECTRICAL BOXES TO BE INSTALLED STAGGERED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

E. PROVIDE ACCESSIBILITY IN FRONT OF THE SERVICE AS REQUIRED BY NEC 110.26A.

F. ALL EQUIPMENT INSTALLED OUTSIDE SHALL BE SUITABLE FOR THE LOCATION AS REQUIRED PER NEC.

G. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL CONFIRM EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH STRUCTURAL DRAWINGS.

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 202
MIAMI, FLORIDA 33145
+1 786.728.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 202
MIAMI, FLORIDA 33145
agd@miami.com
dev-engineer@agdmiami.com

R&D ENGINEERS

R&D ENGINEERS LLC
7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
info@rdengineers.com
dev-br@rdengineers.com

NEW SINGLE FAMILY RESIDENCE

AGD CALISTONE LLC
10840 SW 67 Ave MIAMI, FL 33156

ISSUES
JUN 2024 1ST ISSUED

R&D Project No. 2025.512
DRAWN BY RV
CHECKED BY RD
SCALE AS NOTED
R&D ENGINEERS REGISTRY No. 37312
SEAL

RICARDO A DIAZ LICENSE No. 76981 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by RICARDO A DIAZ
Date: 2025.05.09 11:20:44 -04'00'

RICARDO A. DIAZ
PROFESSIONAL ENGINEER
PE 76981

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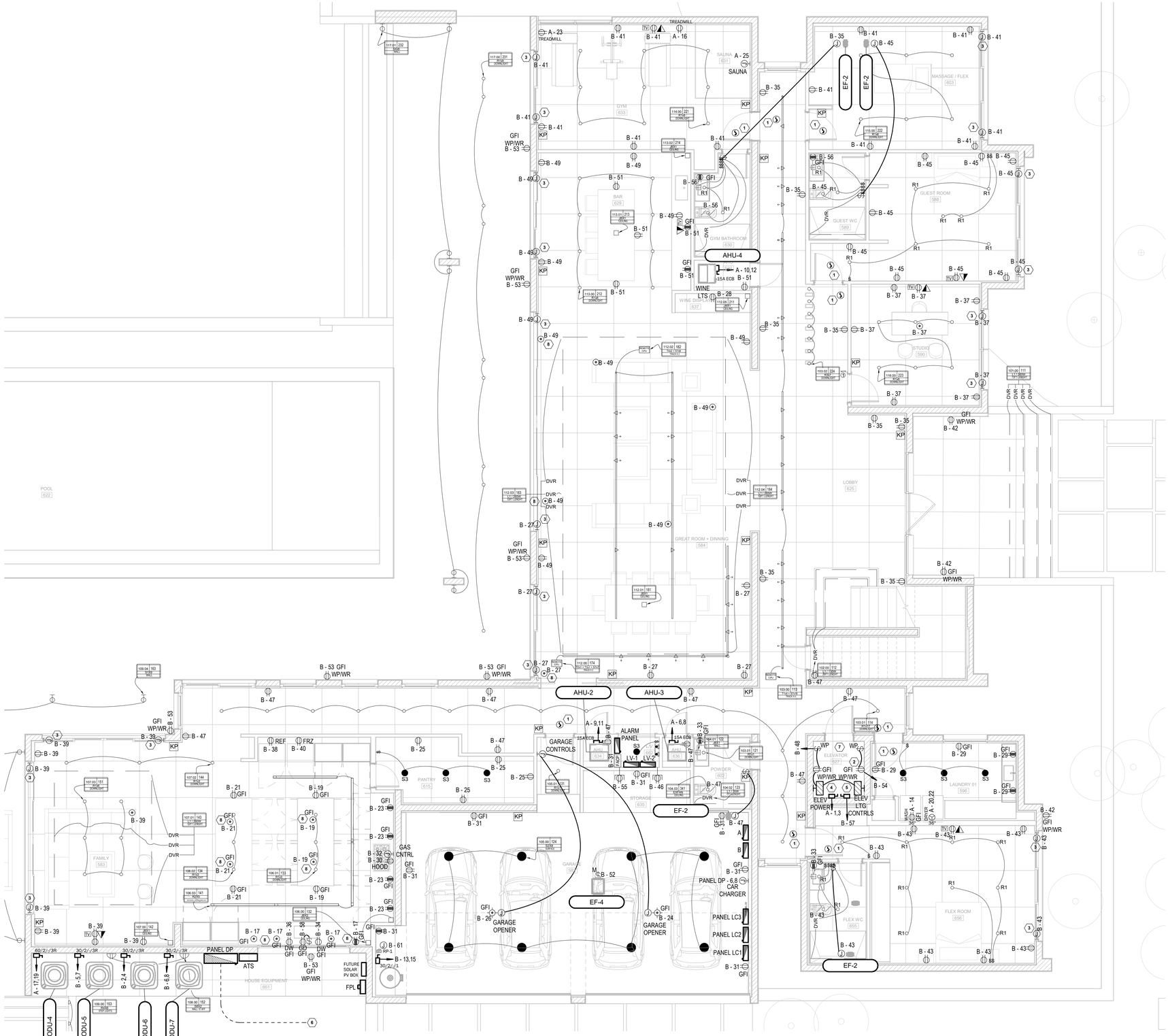
SHEET No.

E-2

PROPOSED ELECTRICAL SITE PLAN



1 FIRST FLOOR PROPOSED PLAN - ELECTRICAL - AREA A

SCALE: 3/16" = 1'-0"

GENERAL NEW WORK NOTES

A. FURNISH AND INSTALL ALL WIRING AND RACEWAYS TO COMPLETE CIRCUITING AS INDICATED ON THESE DRAWINGS.

B. COORDINATE EXACT LOCATION AND HEIGHT OF ALL RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS.

C. FINAL LOCATION OF ALL RECEPTACLES SHALL BE COORDINATED WITH MILLWORK. REFER TO ARCHITECTURAL DRAWINGS.

D. ALL ELECTRICAL BOXES TO BE INSTALLED STAGGERED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

E. PROVIDE ACCESSIBILITY IN FRONT OF THE SERVICE AS REQUIRED BY NEC 110.26A.

F. ALL EQUIPMENT INSTALLED OUTSIDE SHALL BE SUITABLE FOR THE LOCATION AS REQUIRED PER NEC.

G. WHEN GFI RECEPTACLE ACCESSIBILITY IS NOT ACHIEVED, GFI PROTECTION SHALL BE PROVIDED VIA GFI BREAKER.

H. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL CONFIRM EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH STRUCTURAL DRAWINGS.

LEGEND NOTES

1. PROVIDE COMBINATION SMOKE DETECTOR / CARBON MONOXIDE DETECTOR ALARM. ALL DEVICES SHALL BE INTERCONNECTED, SO THAT OPERATION OF ANY SMOKE OR CARBON MONOXIDE ALARM SHALL CAUSE THE ALARM OF ALL ALARMS WITHIN THE DWELLING UNIT TO SOUND (NFPA 101 SECTION 9.6.2.10.3)
2. SWITCHED RECEPTACLE FOR ELEVATOR PIT SUMP PUMP.
3. JUNCTION BOX FOR POWER EXTENSION TO MOTORIZED SHADES. COORDINATE EXACT REQUIREMENTS WITH VENDOR.
4. 250V, 2-POLE, 30A LOCKABLE DISCONNECT FOR POWER TO ELEVATOR. PROVIDE 20A FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT REQUIREMENTS WITH VENDOR.
5. 120V, 30A LOCKABLE DISCONNECT FOR POWER TO ELEVATOR LTG & CONTROLS. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT REQUIREMENTS WITH VENDOR.
6. APPROXIMATE ROUTING OF PROPOSED UNDEGROUND SERVICE FEEDERS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION. CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL CONFIRM SUITABLE ROUTING IN THE FIELD.
7. ELEVATOR PROVIDED WITH UPS FOR EMERGENCY LOWERING.
8. FLOOR RECEPTACLE SHALL BE WITHIN 12" FROM THE GLASS WALL.
8. CONTRACTOR TO PROVIDE POP-UP RECEPTACLES.

Name of load | Panel / Module / Channel | XXX.X XXX | IDC 108 | CEILING / 29FT | Fixture | Specs

LIGHTING LEGEND

- Downlight Recessed Fijo R1
- Downlight Surface S2,S3
- Wall Washer Recessed R4
- Uplight Recessed R3
- Spotlight (Aimed) S7
- Downlight Linear Led R6
- LED Strip L1, L2
- Aplique S4, S5, S9, S11
- Rail 1000mm, T1, T2, T3
- J BOX
- Wall washer R5
- LED Strip L3
- Downlight Surface Aimable S1
- Wall wash S10
- Wall wash R5

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
agd@mdm.com
dev-ensperal@agdmiami.com

R&D ENGINEERS

R&D ENGINEERS LLC
7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
info@rdengineers.com
drv-be@rdengineers.com

NEW SINGLE FAMILY RESIDENCE

AGD CALISTONE LLC
10840 SW 67 Ave MIAMI, FL 33156

ISSUES
JUN 2024 1ST ISSUED

R&D Project No. 2025.512
DRAWN BY RV
CHECKED BY RD
SCALE AS NOTED
R&D ENGINEERS REGISTRY No. 37312
SEAL

Digitally signed by RICARDO A DIAZ
Date: 2025.05.09 11:20:53 -04'00'

RICARDO A. DIAZ
PROFESSIONAL ENGINEER
PE 76981

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SHEET No.

E-3

PROPOSED FIRST FLOOR ELECTRICAL PLAN ,AREA A

GENERAL NEW WORK NOTES

A. FURNISH AND INSTALL ALL WIRING AND RACEWAYS TO COMPLETE CIRCUITING AS INDICATED ON THESE DRAWINGS.

B. COORDINATE EXACT LOCATION AND HEIGHT OF ALL RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS.

C. FINAL LOCATION OF ALL RECEPTACLES SHALL BE COORDINATED WITH MILLWORK. REFER TO ARCHITECTURAL DRAWINGS.

D. ALL ELECTRICAL BOXES TO BE INSTALLED STAGGERED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

E. PROVIDE ACCESSIBILITY IN FRONT OF THE SERVICE AS REQUIRED BY NEC 110.26A.

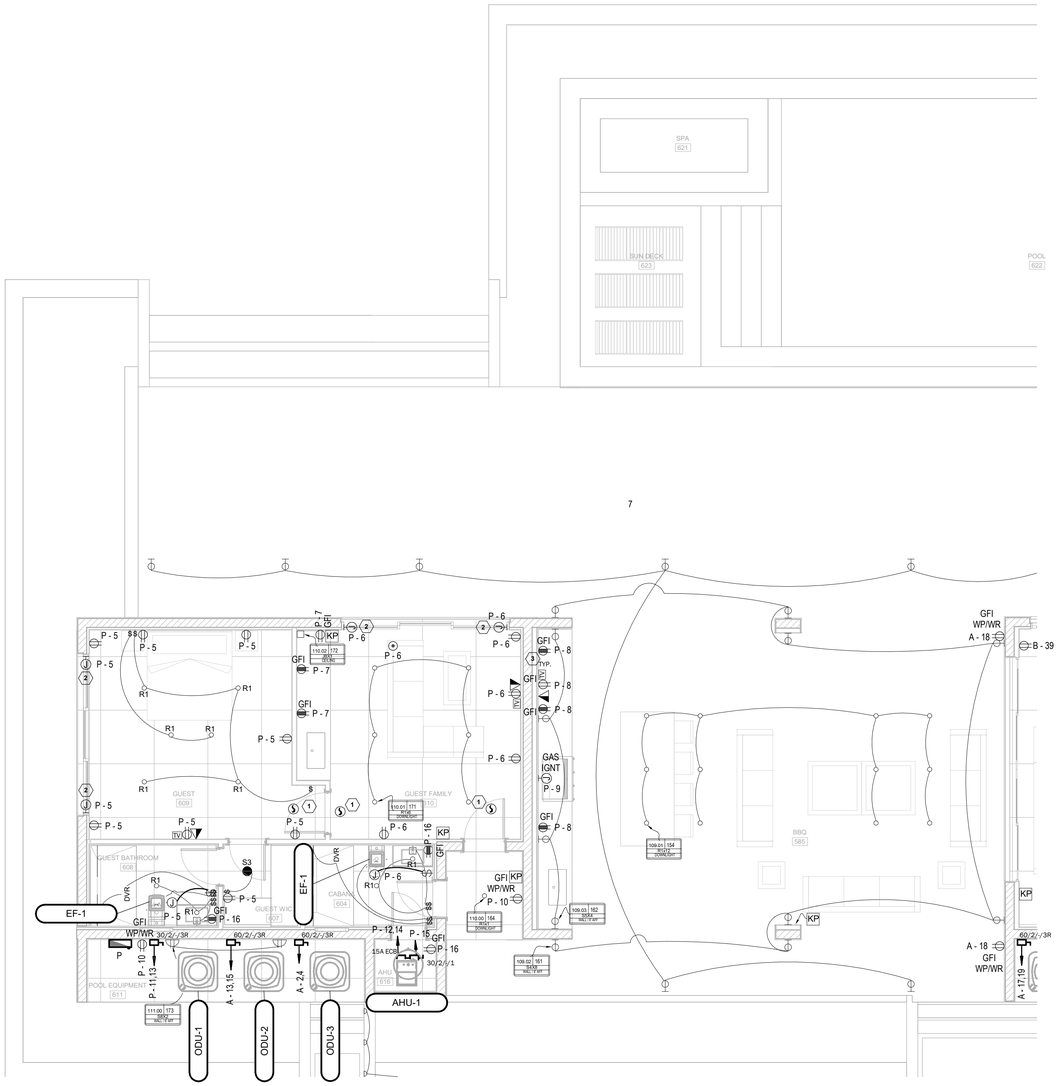
F. ALL EQUIPMENT INSTALLED OUTSIDE SHALL BE SUITABLE FOR THE LOCATION AS REQUIRED PER NEC.

G. WHEN GFI RECEPTACLE ACCESSIBILITY IS NOT ACHIEVED, GFI PROTECTION SHALL BE PROVIDED VIA GFI BREAKER.

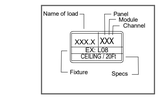
H. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL CONFIRM EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH STRUCTURAL DRAWINGS.

LEGEND NOTES

1. PROVIDE COMBINATION SMOKE DETECTOR / CARBON MONOXIDE DETECTOR ALARM. ALL DEVICES SHALL BE INTERCONNECTED, SO THAT OPERATION OF ANY SMOKE OR CARBON MONOXIDE ALARM SHALL CAUSE THE ALARM OF ALL ALARMS WITHIN THE DWELLING UNIT TO SOUND (NFPA 101 SECTION 9.6.2.10.3)
2. JUNCTION BOX FOR POWER EXTENSION TO MOTORIZED SHADES. COORDINATE EXACT REQUIREMENTS WITH VENDOR.
3. WHEN GFI RECEPTACLE ACCESSIBILITY IS NOT ACHIEVED. GFI PROTECTION SHALL BE PROVIDED VIA GFI BREAKER.
4. FLOOR RECEPTACLE SHALL BE WITHIN 12" FROM THE GLASS WALL.



1 FIRST FLOOR PROPOSED PLAN - ELECTRICAL - AREA B
SCALE: 3/16" = 1'-0"



LIGHTING LEGEND

- Downlight Recessed Fijo R1
- Downlight Surface S2,S3
- Wall Washer Recessed R4
- Uplight Recessed R3
- Spotlight (Aimed) S7
- Downlight Linear Led R6
- LED Strip L1, L2
- Apliqué S4, S5, S9, S11
- Rail 1000mm, T1, T2, T3
- J BOX
- Wall washer R5
- LED Strip L3
- Downlight Surface Aimable S1
- Wall wash S10
- Wall wash R5

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
agdmiami.com
dev-enquiries@agdmiami.com

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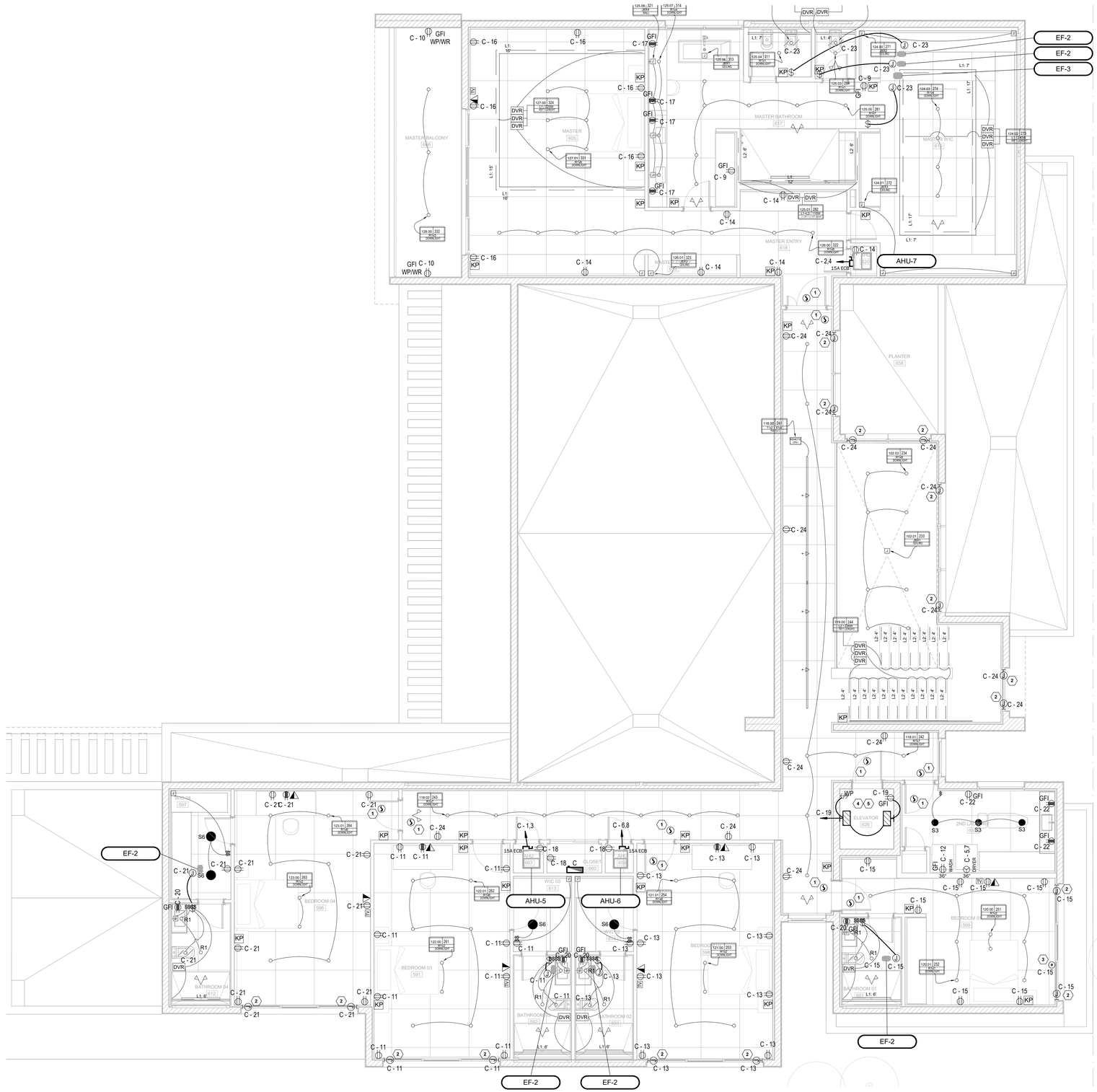
E-4

PROPOSED FIRST FLOOR ELECTRICAL PLAN ,AREA B



1 SECOND FLOOR PROPOSED PLAN - ELECTRICAL - AREA A
SCALE: 3/16" = 1'-0"

GENERAL NEW WORK NOTES

A. FURNISH AND INSTALL ALL WIRING AND RACEWAYS TO COMPLETE CIRCUITING AS INDICATED ON THESE DRAWINGS.

B. COORDINATE EXACT LOCATION AND HEIGHT OF ALL RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS.

C. FINAL LOCATION OF ALL RECEPTACLES SHALL BE COORDINATED WITH MILLWORK. REFER TO ARCHITECTURAL DRAWINGS.

D. ALL ELECTRICAL BOXES TO BE INSTALLED STAGGERED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

E. PROVIDE ACCESSIBILITY IN FRONT OF THE SERVICE AS REQUIRED BY NEC 110.26A.

F. ALL EQUIPMENT INSTALLED OUTSIDE SHALL BE SUITABLE FOR THE LOCATION AS REQUIRED PER NEC.

G. WHEN GFI RECEPTACLE ACCESSIBILITY IS NOT ACHIEVED, GFI PROTECTION SHALL BE PROVIDED VIA GFI BREAKER.

H. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY, CONTRACTOR SHALL CONFIRM EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH STRUCTURAL DRAWINGS.

LEGEND NOTES

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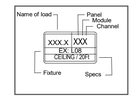
2. JUNCTION BOX FOR POWER EXTENSION TO MOTORIZED SHADES. COORDINATE EXACT REQUIREMENTS WITH VENDOR.
3. FLOOR RECEPTACLE SHALL BE WITHIN 12" FROM THE GLASS WALL.
4. PROVIDE A MIN. ILLUMINATION OF 19 FC AT TOP OF SHAFT.
5. ELEVATOR PROVIDED WITH UPS FOR EMERGENCY LOWERING.



LIGHTING LEGEND

- Downlight Recessed Fijo R1
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- Spotlight (Aimed) S7
- Downlight Linear Led R6
- LED Strip L1, L2
- Apliqué S4, S5, S9, S11
- Rail 1000mm, T1, T2, T3
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agd@mail.com
dev-engineer@agdmiami.com

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7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
(305)599-0606
drh-fl@rd-engineers.com

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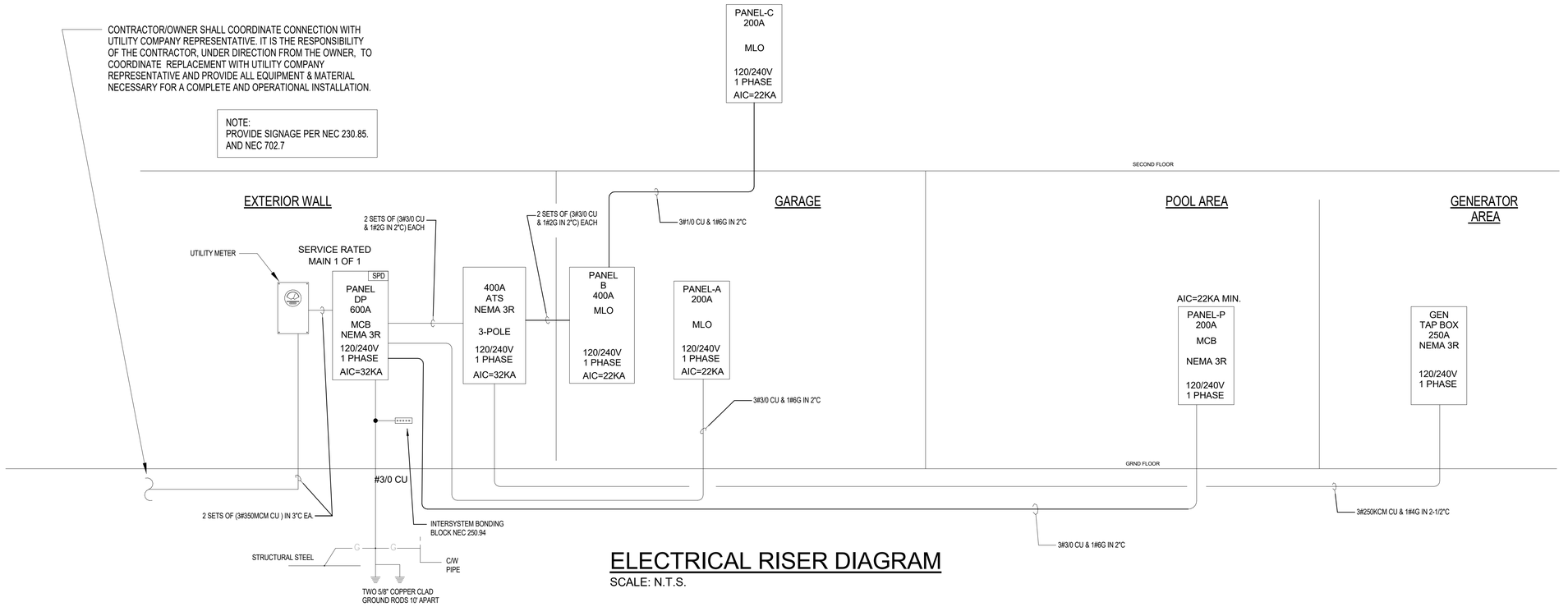
SHEET No.

E-5

PROPOSED SECOND FLOOR ELECTRICAL PLAN ,AREA A

CONTRACTOR/OWNER SHALL COORDINATE CONNECTION WITH UTILITY COMPANY REPRESENTATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, UNDER DIRECTION FROM THE OWNER, TO COORDINATE REPLACEMENT WITH UTILITY COMPANY REPRESENTATIVE AND PROVIDE ALL EQUIPMENT & MATERIAL NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION.

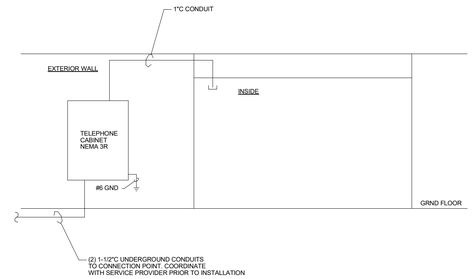
NOTE:
PROVIDE SIGNAGE PER NEC 230.85.
AND NEC 702.7



ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

NOTES: (VOICE/DATA)

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, JUNCTION BOXES, TERMINAL CABINETS, ECT., AS REQUIRED AND NECESSARY AND AS INDICATED ON CONTRACT DOCUMENTS, FOR A COMPLETE AND OPERATIONAL INSTALLATION.
3. CONTRACTOR SHALL PROVIDE PULL WIRE IN EMPTY CONDUIT SYSTEM.
4. REFER TO FLOOR PLAN DRAWINGS FOR LOCATION AND QUANTITY OF DEVICES.



PARTIAL DATA/COMM RISER DIAGRAM
SCALE: NTS
(EMPTY CONDUIT SYSTEM)

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
agdmiami.com
dev-ecopeak@agdmiami.com

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7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
rdengineers.com
drv-bd@rdengineers.com

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E-6

ELECTRICAL RISER DIAGRAMS

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C. 2020), 2023 FBC, 2021 NFPA-101, 2021 NFPA-1, ALL MATERIAL SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE.
2. CONTRACTOR SHALL MAKE ALL NECESSARY CUTTING AND DO ALL THE REPATCHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
3. AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
4. WHERE ELECTRICAL CONDUCTORS ARE INSTALLED IN CONDUIT, THE CONDUIT SHALL COMPLY WITH THE N.E.C. REQUIREMENTS.
5. ALL CONDUCTORS SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN #12 AWG AND SHALL BE RATED FOR 600 VOLTS THWN OR THHN INSULATION. INSTALL A GROUNDING CONDUCTOR WITH ALL CIRCUITS, UNLESS NOTED OTHERWISE, SIZED PER N.E.C. 250-122.
6. VERIFY BREAKER AND CORRESPONDING WIRE SIZES FOR ALL ELECTRICAL EQUIPMENT. DO NOT ORDER MATERIAL BEFORE VERIFYING BREAKER AND WIRE SIZE. REPORT ANY DISCREPANCY IMMEDIATELY TO THE ENGINEER OF RECORD.
7. VERIFY AVAILABLE INTERRUPTING CURRENT (AIC) WITH POWER COMPANY. EQUIPMENT AIC RATING MUST BE LARGER THAN THE POWER COMPANY AIC.
8. SAFETY SWITCHES SHALL BE SQUARE 'D', GENERAL ELECTRIC, OR WESTINGHOUSE, FUSED OR NON-FUSED AND SIZED AS INDICATED, NEMA 3R WHEN EXPOSED TO WEATHER.
9. PANELS SHALL BE SQUARE 'D', GENERAL ELECTRIC OR EQUAL, TYPE AND NUMBER OF BREAKERS AS INDICATED ON PANEL SCHEDULE. STENCIL PANEL DESIGNATION ON INSIDE OF PANEL. ALL TWO-POLE BREAKERS SHALL BE COMMON TRIP. PROVIDE TYPE WRITTEN SCHEDULE IN EACH LOAD CENTER. CONNECTION TO MAIN BUS SHALL BE WITH BURNDY ANNULAR COMPRESSION LUGS.
10. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO COMPLY WITH LOCAL CODE FOR WIND RESISTANCE.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE OWNER.
13. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING AND BEFORE INSTALLATION.
14. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 15" A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED, ALL LIGHT SWITCHES SHALL BE @ 42" A.F.F. TO BOTTOM OF SWITCH.
15. SERVICE MUST BE 3' ABOVE MSL, VERIFY AT SITE.
16. CONTRACTOR MUST VISIT THE SITE PRIOR TO BID OR CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS.
17. WHEN NEW ELECTRIC SERVICE IS BEING INSTALLED, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH FPL/FPL ENGINEERS ON THE SIZE OF THE FPL TRANSFORMER THAT IS REQUIRED TO PROVIDE THE NEW ELECTRIC SERVICE SHOWN ON ELECTRIC PLANS, GC HAS TO INFORM THE OWNER ABOUT ANY EXTRA FPL CHARGES THAT MIGHT OCCUR IN ORDER TO PULL NEW SERVICE. THIS HAS TO BE DONE AS EARLY AS POSSIBLE DURING THE BIDDING PROCESS.
18. INSTALL 4 CONDUCTORS FOR ALL COOKING UNITS AND DRYERS TO COMPLY WITH NEC 250.140.
19. MEANS SHALL BE PROVIDED TO SIMULTANEOUSLY DISCONNECT EACH APPLIANCE FROM ALL UNGROUNDED CONDUCTORS PER NEC 422.30. (INCLUDING INSTANT WATER HEATER)
20. LIGHT FIXTURES IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
21. WIRING, BOXES AND EQUIPMENT IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
22. ALL AV EQUIPMENT IN PLENUM MECHANICAL ROOMS SHALL BE PLENUM RATED.

NOTES:
ALL NEW EXTERIOR RECEPTACLES TO BE RECESSED.

PER N.E.C. 2020 406.9
ALL NEW RECEPTACLES IN DAMP LOCATIONS INDICATED AS WEATHERPROOF ON PLAN (WP) SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.
ALL NEW RECEPTACLES IN WET LOCATIONS INDICATED AS WEATHER-RESISTANT ON PLAN (WR) SHALL HAVE AN ENCLOSURE THAT IS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE.

PER N.E.C. 2020 406.12 ALL NEW 120V, 15A AND 20A RECEPTACLES INSTALLED IN ALL AREAS (KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN AND RECREATION ROOM) SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.

PER FLORIDA BUILDING CODE 2023 ENERGY CONSERVATION:

SECTION 404

ELECTRICAL POWER AND LIGHTING SYSTEMS

404.1 NOT LESS THAN 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LUMINAIRES SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT.

ELECTRICAL CODE NOTES:

THESE NOTES TAKE PRECEDENCE IF THERE IS ANY DISCREPANCY WITH THE PLANS.

ALL BATHROOMS, GARAGES, EXTERIOR RECEPTACLES, KITCHEN APPLIANCE CIRCUITS, DINING ROOM RECEPTACLES, AND BREAKFAST ROOM TO BE ON 20 AMP BREAKERS.

ALL 120V THROUGH 250V RECEPTACLES IN BATHROOMS, GARAGES, EXTERIOR RECEPTACLES, KITCHEN RECEPTACLES, SHALL HAVE GROUND FAULT CURRENT INTERRUPTER (GFCI) PROTECTION .

ALL EXTERIOR RECEPTACLES TO BE WEATHER RESISTAN WITH WEATHER PROOF ENCLOSURE WHILE IN USE.

ALL 15 AMP AND 20 AMP 120V ELECTRICAL CIRCUITS SHALL HAVE ARC FAULT CURRENT INTERRUPTER BREAKERS. (RECEPTACLES, LIGHTS, SWITCHES, FANS, SMOKE DETECTORS).

SMOKE DETECTORS TO BE HARD WIRED 110V WITH BATTERY BACKUP AND ON KITCHEN OR BATHROOM LIGHTING CIRCUITS, INTERCONNECTED AHEAD OF SWITCHES. ALL SMOKE DETECTORS SHALL BE MOUNTED AT THE HIGHEST POINT OF THE CEILING PER ROOM.

DO NOT MOUNT SMOKE DETECTORS WITHIN 3 FEET OF BATHROOM DOOR OR HVAC DIFFUSERS OR TIP OF FAN BLADE.

ALL RECEPTACLES TO BE TAMPER RESISTANT PER NEC 2017 406.12.

SMOKE DETECTORS WITHIN 20FT HORIZONTAL PATH OF COOKING APPLIANCES SHALL BE EQUIPPED WITH ALARM SILENCING MEANS OR BE PHOTOELECTRIC TYPE.

MORE THAN 12 INTERCONNECTED SMOKE DETECTORS ARE REQUIRED TO BE SUPERVISED (ALARM COMPANY MUST BE CONTRACTED FOR MONITORING).

ESSENTIAL SWITCHES AND CONTROLS TO BE LOCATED BETWEEN 42" AND 52" FROM THE FLOOR AS PER THE STATE ACCESSIBILITY CODE.

ALL RECEPTACLES TO BE @ 15" A.F.F. TO BOTTOM OF RECEPTACLE UNLESS NOTED OTHERWISE OR ABOVE COUNTER.

ALLOWED LUMINAIRES IN CLOTH CLOSETS:

SURFACE MOUNTED OR RECESSED (FIXTURE) WITH A COMPLETELY ENCLOSED LAMP.

PER FLORIDA BUILDING CODE 2023 ENERGY CONSERVATION:

405.7.3 VOLTAGE DROP.

405.7.3.1 FEEDERS AND CUSTOMER OWNED SERVICE CONDUCTORS.
FEEDER AND CUSTOMER OWNED SERVICE CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD.
405.7.3.2 BRANCH CIRCUITS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

405.7.4 COMPLETION REQUIREMENTS.

405.7.4.1 DRAWINGS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE
PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

405.7.4.2 MANUALS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL
INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
NOTE: ENFORCEMENT AGENCIES SHOULD ONLY CHECK TO BE
SURE THAT THE CONSTRUCTION DOCUMENTS REQUIRE THIS INFORMATION TO BE TRANSMITTED TO THE OWNER AND SHOULD NOT EXPECT COPIES OF ANY OF THE MATERIALS.

405.3 TANDEM WIRING :

LUMINAIRES DESIGNED FOR USE WITH ONE OR THREE LINEAR FLUORESCENT LAMPS GREATER THAN 30 W EACH SHALL BE TANDEM WIRED WHEN TWO OR MORE LUMINAIRES ARE IN THE SAME SPACE AND ON THE SAME CONTROL DEVICE.
EXCEPTIONS:
1. RECESSED LUMINAIRES MORE THAN 10 FEET APART MEASURED CENTER TO CENTER.
2. SURFACE-MOUNTED OR PENDANT LUMINAIRES THAT ARE NOT CONTINUOUS.
3. LUMINAIRES USING THREE-LAMP HIGH-FREQUENCY ELECTRONIC OR THREE-LAMP ELECTROMAGNETIC BALLASTS.
4. RECESSED LUMINAIRES MORE THAN 10 FEET APART MEASURED CENTER TO CENTER.
5. SURFACE-MOUNTED OR PENDANT LUMINAIRES THAT ARE NOT CONTINUOUS.
6. LUMINAIRES USING THREE-LAMP HIGH-FREQUENCY ELECTRONIC OR THREE-LAMP ELECTROMAGNETIC BALLASTS.

BRANCH CIRCUIT VOLTAGE DROP MAXIMUM 3% PER 2023 FBC

CIRCUIT LOAD IN AMPS	WIRE SIZE COPPER	MAXIMUM LENGTH IN FEET
5 AMPS OR LESS	#12 AWG	180
6 AMPS	#12 AWG	150
7 AMPS	#12 AWG	130
8 AMPS	#12 AWG	115
9 AMPS	#12 AWG	100
10 AMPS	#12 AWG	90
11 AMPS	#12 AWG	83
12 AMPS	#12 AWG	75
13 AMPS	#12 AWG	70
14 AMPS	#12 AWG	65
15 AMPS	#12 AWG	60
16 AMPS	#12 AWG	57
17 AMPS	#12 AWG	54
18 AMPS	#12 AWG	51
19 AMPS	#12 AWG	48
20 AMPS	#12 AWG	45

Branch Panel: PANEL DP

Location: HOUSE EQUIPMENT AREA
Supply From: FPL
Mounting: Surface
Enclosure: Type 1
Volts: 120/240 Single
Phases: 1
Wires: 3
A.I.C. Rating: 32,000 A
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	PANEL A	200 A	2	19090...	50519...			2	400 A	PANEL B (VIA ATS)	2
3	--	--	--			17890...	41246...	--	--	--	4
5	PANEL P	200 A	2	13439...	5750 VA			2	60 A	CAR CHARGER	6
7	--	--	--			15000...	5750 VA	--	--	--	8
9	Space	--	1	--	--			1	--	Space	10
11	Space	--	1			--	--	1	--	Space	12
13	Space	--	1	--	--			1	--	Space	14
15	Space	--	1			--	--	1	--	Space	16
17	Space	--	1	--	--			1	--	Space	18
19	Space	--	1			--	--	1	--	Space	20
21	Space	--	1	--	--			1	--	Space	22
23	Space	--	1			--	--	1	--	Space	24
25	Space	--	1	--	--			1	--	Space	26
27	Space	--	1			--	--	1	--	Space	28
29	Space	--	1	--	--			1	--	Space	30
31	Space	--	1			--	--	1	--	Space	32
33	Space	--	1	--	--			1	--	Space	34
35	Space	--	1			--	--	1	--	Space	36
37	Space	--	1	--	--			1	--	Space	38
39	Space	--	1			--	0 VA	2	30 A	TVSS	40
41	Space	--	1	--	0 VA			--	--	--	42
			Total Load:	88798 VA		79886 VA					
			Total Amps:	740 A		666 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	24024 VA	75.00%	18018 VA		
HVAC	42480 VA	100.00%	42480 VA	**Total Conn. Load:**	168684 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	113811 VA
Lighting	0 VA	0.00%	0 VA	**Total Conn.:**	703 A
Lighting - Dwelling Unit	78180 VA	37.49%	29313 VA	**Total Est. Demand:**	474 A
Large Appliance - Dwelling Unit	24000 VA	100.00%	24000 VA		

Notes:

Branch Panel: P

Location: POOL EQUIPMET ROOM
Supply From: PANEL DP
Mounting: Surface
Enclosure: NEMA-3R
Volts: 120/240 Single
Phases: 1
Wires: 3
A.I.C. Rating: 22,000A
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	POOL HEATER	60 A	2	5000 VA	5000 VA			2	60 A	POOL PANEL	2
3	--	--	--			5000 VA	5000 VA	--	--	--	4
5	GUEST ROOM RCPT	15 A	1	0 VA	39 VA			1	15 A	GUEST FAMILY RCPT	6
7	GUEST FAMILY RCPT	20 A	1			0 VA	1500 VA	1	20 A	BBQ RCPT	8
9	GAS IGNT BBQ AREA	20 A	1	900 VA	500 VA			1	20 A	EXTERIOR RCPT	10
11	ODU-1	20 A	2			1300 VA	700 VA	2	15 A	AHU-1	12
13	--	--	--	1300 VA	700 VA			--	--	--	14
15	WH-2	30 A	1			1500 VA	0 VA	1	20 A	GUEST BATHROOM/CABANA RCPT	16
17	Space	--	1	--	--			1	--	Space	18
19	Space	--	1			--	--	1	--	Space	20
21	Space	--	1	--	--			1	--	Space	22
23	Space	--	1			--	--	1	--	Space	24
25	Space	--	1	--	--			1	--	Space	26
27	Space	--	1			--	--	1	--	Space	28
29	Space	--	1	--	--			1	--	Space	30
31	Space	--	1			--	--	1	--	Space	32
33	Space	--	1	--	--			1	--	Space	34
35	Space	--	1			--	--	1	--	Space	36
37	Space	--	1	--	--			1	--	Space	38
39	Space	--	1			--	0 VA	2	30 A	TVSS	40
41	Space	--	1	--	0 VA			--	--	--	42
			Total Load:	13439 VA		15000 VA					
			Total Amps:	112 A		125 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	900 VA	100.00%	900 VA		
HVAC	4000 VA	100.00%	4000 VA	**Total Conn. Load:**	28439 VA
Lighting - Dwelling Unit	22039 VA	43.85%	9664 VA	**Total Est. Demand:**	16064 VA
Large Appliance - Dwelling Unit	1500 VA	100.00%	1500 VA	**Total Conn.:**	118 A
				Total Est. Demand:	67 A

Notes:

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD

AGD DEVELOPERS LLC
1385 CORAL WAY, SUITE 302
MIAMI, FLORIDA 33145
agd@mdm.com
dev-enquiries@agdmiami.com

R&D ENGINEERS, LLC

R&D ENGINEERS LLC
7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
(305) 599-1909
drh-bdfl@rndengineers.com

NEW SINGLE FAMILY RESIDENCE

AGD CALISTONE LLC
10840 SW 67 Ave MIAMI, FL 33156

ISSUES
JUN 2024 1ST ISSUED

R&D Project No. 2025.512
DRAWN BY RV
CHECKED BY RD
SCALE AS NOTED
R&D ENGINEERS REGISTRY No. 37312
SEAL

STATE OF FLORIDA PROFESSIONAL ENGINEER RICARDO A. DIAZ No. 76981

Digitally signed by RICARDO A DIAZ
Date: 2025.05.09 11:21:30 -04'00'

RICARDO A. DIAZ
PROFESSIONAL ENGINEER
PE 76981

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SHEET No.

E-7

ELECTRICAL SCHEDULES AND NOTES

Branch Panel: A

Location: GARAGE
Supply From: PANEL DP
Mounting: Surface
Enclosure: NEMA-1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22,000 A
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	ELEV POWER	30 A	2	2250 VA	3550 VA			2	50 A	ODU-3	2
3	--	--	--			2250 VA	3550 VA	--	--	--	4
5	Space	--	1	--	700 VA			2	15 A	AHU-3	6
7	Space	--	1			--	700 VA	--	--	--	8
9	AHU-2	15 A	2	700 VA	700 VA			2	15 A	AHU-4	10
11	--	--	--			700 VA	700 VA	--	--	--	12
13	ODU-2	50 A	2	3550 VA	1200 VA			1	20 A	1ST FL WASHER	14
15	--	--	--			3550 VA	500 VA	1	20 A	GYM EQUIPMENT	16
17	ODU-4	40 A	2	2940 VA	0 VA			1	20 A	BBQ RCPT	18
19	--	--	--			2940 VA	2500 VA	2	30 A	1ST FL DRYER GFI	20
21					2500 VA			--	--	--	22
23	GYM EQUIPMENT	20 A	1			500 VA	--	1	--	Space	24
25	SAUNA	20 A	1	1000 VA	--			1	--	Space	26
27	Space	--	1			--	--	1	--	Space	28
29	Space	--	1	--	--			1	--	Space	30
31	Space	--	1			--	--	1	--	Space	32
33	Space	--	1	--	--			1	--	Space	34
35	Space	--	1			--	--	1	--	Space	36
37	Space	--	1	--	--			1	--	Space	38
39	Space	--	1			--	0 VA	2	30 A	TVSS	40
41	Space	--	1	--	0 VA			--	--	--	42
			Total Load:	19090 VA		17890 VA					
			Total Amps:	159 A		149 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	6700 VA	75.00%	5025 VA		
HVAC	24280 VA	100.00%	24280 VA	**Total Conn. Load:**	36980 VA
Lighting - Dwelling Unit	0 VA	0.00%	0 VA	**Total Est. Demand:**	35305 VA
Large Appliance - Dwelling Unit	6000 VA	100.00%	6000 VA	**Total Conn.:**	154 A
				Total Est. Demand:	147 A

Notes:

Branch Panel: C

Location: CLOSET
Supply From: B
Mounting: Surface
Enclosure: NEMA-1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22,000 A
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	AHU-5	15 A	2	700 VA	700 VA			2	15 A	AHU-7	2
3	--	--	--			700 VA	700 VA	--	--	--	4
5	2ND FL DRYER GFI	30 A	2	2500 VA	700 VA			2	15 A	AHU-6	6
7	--	--	--			2500 VA	700 VA	--	--	--	8
9	MASTER BATHROOM RCPT	20 A	1	0 VA	500 VA			1	20 A	BALCONY RCPT	10
11	BEDROOM 03 RCPT	15 A	1			7207 VA	1200 VA	1	20 A	2ND FL WASHER	12
13	BEDROOM 02 RCPT	15 A	1	0 VA	0 VA			1	15 A	MASTER ENTRY RCPT	14
15	BEDROOM 01 RCPT	15 A	1			0 VA	0 VA	1	15 A	MASTER BEDROOM & BALCONY RCPT	16
17	MASTER BATHROOM RCPT	20 A	1	0 VA	0 VA			1	20 A	CLOSET/AHU RCPT	18
19	ELEVATOR LTS & RCPT	20 A	1			292 VA	0 VA	1	20 A	BATHROOM 02 & 03 RCPT	20
21	BEDROOM 04 RCPT	15 A	1	7207 VA	1500 VA			1	20 A	2ND LAUNDRY REC	22
23	BATHROOM AND WIC FANS	20 A	1			0 VA	0 VA	1	15 A	CORRIDOR RCPT	24
25	Space	--	1	--	--			1	--	Space	26
27	Space	--	1			--	--	1	--	Space	28
29	Space	--	1	--	--			1	--	Space	30
31	Space	--	1			--	--	1	--	Space	32
33	Space	--	1	--	--			1	--	Space	34
35	Space	--	1			--	--	1	--	Space	36
37	Space	--	1	--	--			1	--	Space	38
39	Space	--	1			--	0 VA	2	30 A	TVSS	40
41	Space	--	1	--	0 VA			--	--	--	42
			Total Load:	13807 VA		13299 VA					
			Total Amps:	115 A		111 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	1200 VA	100.00%	1200 VA		
HVAC	4200 VA	100.00%	4200 VA	**Total Conn. Load:**	27106 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	18197 VA
Lighting - Dwelling Unit	16706 VA	46.67%	7797 VA	**Total Conn.:**	113 A
Large Appliance - Dwelling Unit	5000 VA	100.00%	5000 VA	**Total Est. Demand:**	76 A

Notes:

Branch Panel: B

Location: GARAGE
Supply From: PANEL DP
Mounting: Surface
Enclosure: NEMA-1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22,000 A
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	PANEL C	150 A	2	13807...	1300 VA			2	20 A	ODU-6	2
3	--	--	--			13299...	1300 VA	--	--	--	4
5	ODU-5	40 A	2	1850 VA	1850 VA			2	50 A	ODU-7	6
7	--	--	--			1850 VA	1850 VA	--	--	--	8
9	PANEL 01	40 A	2	0 VA	0 VA			2	40 A	PANEL 02	10
11	--	--	--			0 VA	0 VA	--	--	--	12
13	WH-2	30 A	2	2750 VA	0 VA			2	40 A	PANEL 03	14
15	--	--	--			2750 VA	0 VA	--	--	--	16
17	SMALL APPLIANCE	20 A	1	1500 VA	--			1	--	Space	18
19	SMALL APPLIANCE	20 A	1			1500 VA	--	1	--	Space	20
21	SMALL APPLIANCE	20 A	1	1500 VA	--			1	--	Space	22
23	SMALL APPLIANCE	20 A	1			1500 VA	1000 VA	1	20 A	GARAGE DOOR OPENER	24
25	PANTRY SMALL APPLIANCE	20 A	1	1500 VA	1000 VA			1	20 A	GARAGE DOOR OPENER	26
27	DINNING RM SMALL APPLIANCE	20 A	1			1500 VA	0 VA	1	20 A	WINE DISPLAY	28
29	LAUNDRY RM RCPT	20 A	1	1500 VA	900 VA			1	20 A	RANGE HOOD	30
31	GARAGE RCPT	20 A	1			0 VA	500 VA	1	20 A	GAS CONTROL	32
33	FLEX & POWDER ROOM GFI	20 A	1	0 VA	1400 VA			1	20 A	DISHWASHER	34
35	LOBBY / CORRIDOR RCPT	15 A	1			0 VA	1400 VA	1	20 A	DISHWASHER	36
37	STUDIO RCPT	15 A	1	0 VA	1200 VA			1	20 A	REF	38
39	FAMILY RM RCPT	15 A	1			0 VA	1200 VA	1	20 A	FRZ	40
41	GYM/ MASSAGE RCPT	15 A	1	7281 VA	500 VA			1	20 A	EXTERIOR EXTRANCE RCPT	42
43	FLEX ROOM & WC RCPT	15 A	1			7281 VA	--	1	--	Space	44
45	GUEST ROOM & WC RCPT	15 A	1	0 VA	800 VA			1	20 A	PANEL LV-2	46
47	CORRIDOR RCPT	15 A	1			0 VA	292 VA	1	20 A	ELEV LTG/RCPT	48
49	GREAT ROOM RCPT	15 A	1	7281 VA	0 VA			1	20 A	PANEL LC-2	50
51	GREAT ROOM COUNTER RCPT	20 A	1			3000 VA	224 VA	1	20 A	EF-4	52
53	EXTERIOR RCPT	20 A	1	600 VA	100 VA			1	20 A	ELEV SUMP PUMP	54
55	PANEL LV-1	20 A	1			800 VA	0 VA	1	20 A	GUEST WC & GYM BATHROOM RCPT	56
57	ELEV LTG CONTRLS	20 A	1	900 VA	900 VA			1	20 A	GARBAGE DISPOSAL	58
59							--	1	--	Space	60
61	RP-1	20 A	1	100 VA	--			1	--	Space	62
63	Space	--	1			--	--	1	--	Space	64
65	Space	--	1	--	--			1	--	Space	66
67	Space	--	1			--	--	1	--	Space	68
69	Space	--	1	--	0 VA			2	30 A	TVSS	70
71	Space	--	1			--	0 VA	--	--	--	72
			Total Load:	50519 VA		41246 VA					
			Total Amps:	421 A		344 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Appliance - Dwelling Unit	16424 VA	75.00%	12318 VA		
HVAC	14200 VA	100.00%	14200 VA	**Total Conn. Load:**	91765 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	53117 VA
Lighting	0 VA	0.00%	0 VA	**Total Conn.:**	382 A
Lighting - Dwelling Unit	56141 VA	38.47%	21599 VA	**Total Est. Demand:**	221 A
Large Appliance - Dwelling Unit	5000 VA	100.00%	5000 VA		

Notes:

MIK ARCHITECTURE

MIK ARCHITECTURE LLC
MATIAS DAROCH
AR-100480
1385 CORAL WAY , SUITE 302
MIAMI, FLORIDA 33145
+1 786.738.0880
hello@mikarch.com

AGD DEVELOPERS LLC
1385 CORAL WAY , SUITE 302
MIAMI, FLORIDA 33145
agd@mail.com
dev-engineering@agdmiami.com

R&D ENGINEERS LLC
7925 NW 12TH ST, SUITE 227
DORAL, FLORIDA 33126
(786) 972-3005
dev-be@rndengineers.com

NEW SINGLE FAMILY RESIDENCE

AGD CALISTONE LLC
10840 SW 67 Ave MIAMI, FL 33156

ISSUES

JUN 2024	1ST ISSUED

R&D Project No.	2025.512
DRAWN BY	RV
CHECKED BY	RD
SCALE	AS NOTED
R&D ENGINEERS REGISTRY No.	37312
SEAL	

RICARDO A DIAZ LICENSE No. 76981 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by RICARDO A DIAZ
Date: 2025.05.09 11:21:39 -04'00'

RICARDO A DIAZ
PROFESSIONAL ENGINEER
PE 76981

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SHEET No.

E-8

ELECTRICAL SCHEDULES