

ELECTRICAL NOTES:

PART 1 - GENERAL:

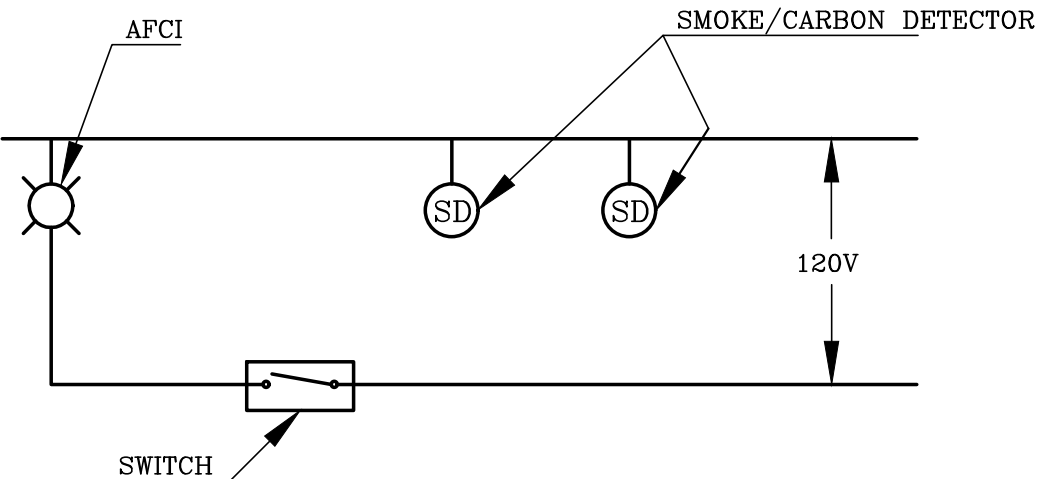
- 1.- THE GENERAL AND SPECIAL CONDITION AND REQUIREMENTS OF THE CONTRACT AND SPECIFICATION AS WELL AS PLANS AND SPECIFICATIONS OF OTHER DISCIPLINES AND TRADES SHALL APPLY AND BE PART OF THE WORK HEREBY SPECIFIED. THESE SPECIFICATION AND THE ACCOMPANYING PLANS ARE INTENDED TO PROVIDE FOR THE COMPLETE FURNISHING AND INSTALLATION OF THE ELECTRICAL SYSTEMS.
- 2.- COMPLIANCE: WORKMANSHIP, MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF 2020NEC (IN SPECIAL SEC. 680), 2023FBC (EIGHTH EDITION), NFPA, NEMA, IEEE, OTHER APPLICABLE NATIONAL STATE & LOCAL CODES AND PERTAINING REGULATIONS ESTABLISHED BY AUTHORITIES HAVING JURISDICTION, AND SHALL MEET THE REQUIREMENTS OF OTHER RECOGNIZED STANDARDS WHERE "PART 1 - GENERAL" THE REQUIREMENTS ARE MORE STRINGENT THAN THOSE CITED ABOVE.
- 3.- WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE ARCHITECT/ENGINEER.
- 4.- MATERIALS: CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS, BEARING THE UNDERWRITER'S LABORATORY (UL) LABEL AS APPLICABLE. MATERIALS SHALL BE ACCEPTABLE AND ABOVE STANDARD QUALITY NORMALLY USED FOR THE PURPOSE AS CALLED FOR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULES OF MATERIALS.
- 5.- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE EQUIPMENT LOCATIONS AND ARRANGEMENTS, NOT TO SHOW EVERY MINOR DETAIL. PLANS SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION AND DIMENSIONS. PROVIDE ALL OFFSETS, FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE, ACCEPTABLE, WORKING INSTALLATION.
- 6.- SUPPLEMENTAL MATERIALS OR MANUFACTURED PRODUCTS NECESSARY TO COMPLY WITH THE INTENT OF THE CONTRACT DRAWINGS OR SPECIFICATIONS, BUT NOT NOTED OR SPECIFIED ON THESE SECTIONS, SHALL BE PROVIDED AS REQUIRED TO COMPLETE THE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.
- 7 - EXISTING CONDITION: CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN ALL EXISTING CONDITIONS, WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITIONS RESULT IN EXTRA MATERIAL OR LABOR. ANY EXISTING CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 8 - PERMITS: CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTION, TESTS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS OUTLINED HERE IN AND SHOWN ON PLANS. PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 9 - INTERFERENCE: PLANS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES, SO THAT INTERFERENCES WITH EXISTING CONDITIONS, CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL, STRUCTURAL AND WORK WITH OTHER TRADES ARE AVOIDED.
- 10 - THIS CONTRACTOR SHALL EXAMINE THESE PLANS (CONSTRUCTION DOCUMENTS) TO UNDERSTAND THE SCOPE, IN THE EVENT OF ANY DISCREPANCIES, CONTRADICTION, INFORMATION NOT PROVIDED ON THIS CONSTRUCTION DOCUMENTS. THIS CONTRACTOR SHALL STOP WORKS AND NOTIFY THIS OFFICE FOR CLARIFICATION AND PROCEED WORKS AFTER THIS OFFICE HAVE CLARIFIED THOSE DISCREPANCIES.

PART 2 - PRODUCTS:

- 1 - DISCONNECT SWITCHES FOR POOL AREA SHALL BE QUICK-MADE, QUICK-BRAKE ACTION, LOCKABLE TYPE PER "NEC 680-12".
- 2 - CONDUCTORS SHALL BE THW/THWN SOFT-DRAWN 98% CONDUCTIVITY COPPER INSTALLED IN CONDUIT, COLOR CODED PER "NEC" AND TRADE STANDARDS. MINIMUM SIZE SHALL BE #12 FOR POWER WIRING AND #14 FOR CONTROL CIRCUITS. PROVIDE #10 WIRES FOR 120V POWER CIRCUIT HOMERUNS LONGER THAN 100 FEET. ASIDE FROM THE PANELBOARD GUTTER, CONDUCTORS ON THE LOAD SIDE OF A GFCI MUST NOT BE USED IN ANY RACEWAY OR OTHER ENCLOSURE CONTAINING CONDUITS THAT ARE NOT GFCI-PROTECTED.
- 3 - CONDUIT SHALL BE "RGS" OR "IMC" HOT-DIPPED GALVANIZED FOR ALL EXTERIOR LOCATIONS, WHERE EXPOSED TO PHYSICAL DAMAGE. ALL FITTING SHALL BE STEEL. "PVC" SCHEDULE 40 SHALL BE USED WHERE CONDUIT IS RUN IN CONCRETE SLABS; "PVC" MAY BE RUN UNDERGROUND WHERE BURIED 18" BELOW FINISHED GRADE, 24" UNDER VEHICULAR TRAFFIC AREAS. GREENFIELD TYPE FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR MOTORS AND VIBRATING EQUIPMENT CONNECTIONS, NOT TO EXCEED 18". PROVIDE "PVC" JACKETED TYPE FOR EXTERIOR AND/OR MOISTURE EXPOSED LOCATIONS. FOR UNDERWATER LIGHTING FIXTURES AS PER "NEC 680-20".
- 4 - THIS CONTRACTOR SHALL COORDINATE WITH FP&L THE CONNECTION FOR THIS SERVICE AND REVISE INTERRUPTING CAPACITY AVAILABLE PRIOR INSTALLATION OF ALL DISCONNECTING DEVICES, AND INCREASE THE INTERRUPTING CAPACITY IN PANELS AND DISCONNECTING DEVICES IF REQUIRED.

PART 3 - EXECUTION:

- 1 - CONDUIT RUNS, RACEWAYS AND PIPING SHALL BE CONCEALED IN WALLS, CEILINGS, SLABS AND PARTITIONS; NO RACEWAYS SHALL BE EXPOSED WITHIN INTERIOR SPACES EXCEPT FOR OPEN CEILING AREAS.
- 2 - GROUNDING AND BONDING SHALL COMPLY WITH "NEC 250, SPECIALLY 250-22, 250-24, 250-50/52/53, TABLE 250-66, 250-104, 680-24 & 25". ALL METALLIC RACEWAYS SHALL BE GROUNDED AND BONDED PER "NEC 250". NON-METALLIC RACEWAYS SHALL BE PROVIDED WITH A GROUNDING CONDUCTOR SIZED PER "NEC 250-94/96".
- 3 - MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERTIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS.
- 4 - KAIC NOTE: THIS CONTRACTOR SHALL COORDINATE WITH FPL THE KAIC AVAILABLE AND INCREASE OR DECREASE THE KAIC ACCORDINGLY. ALL PANELS AND DISCONNECTS SHALL BE SERIES RATED WITH MAIN SERVICE.

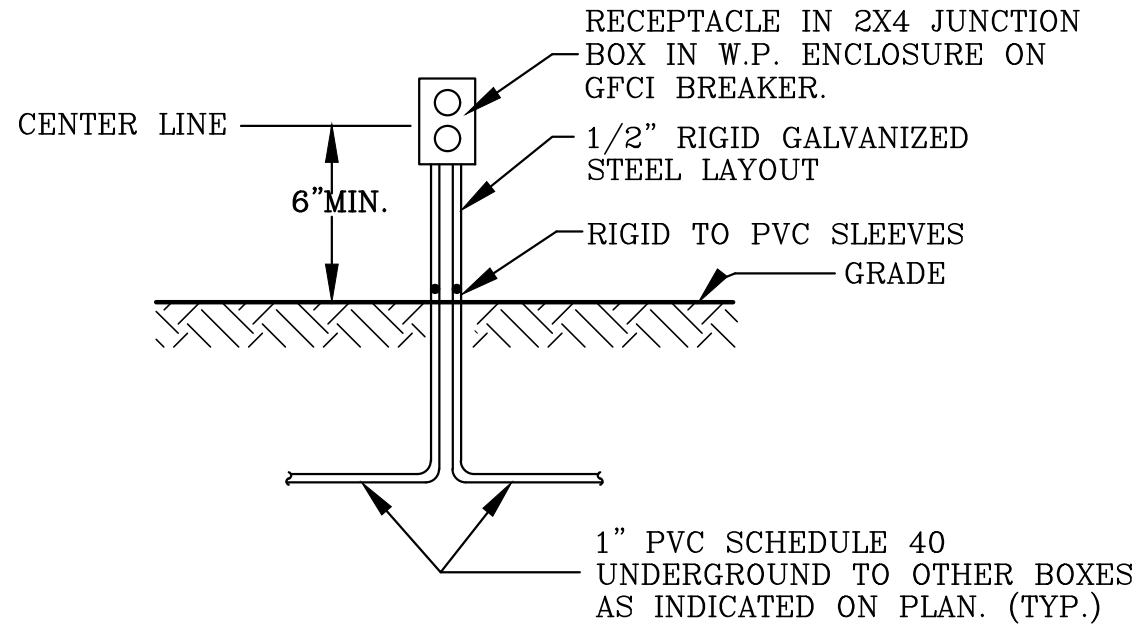
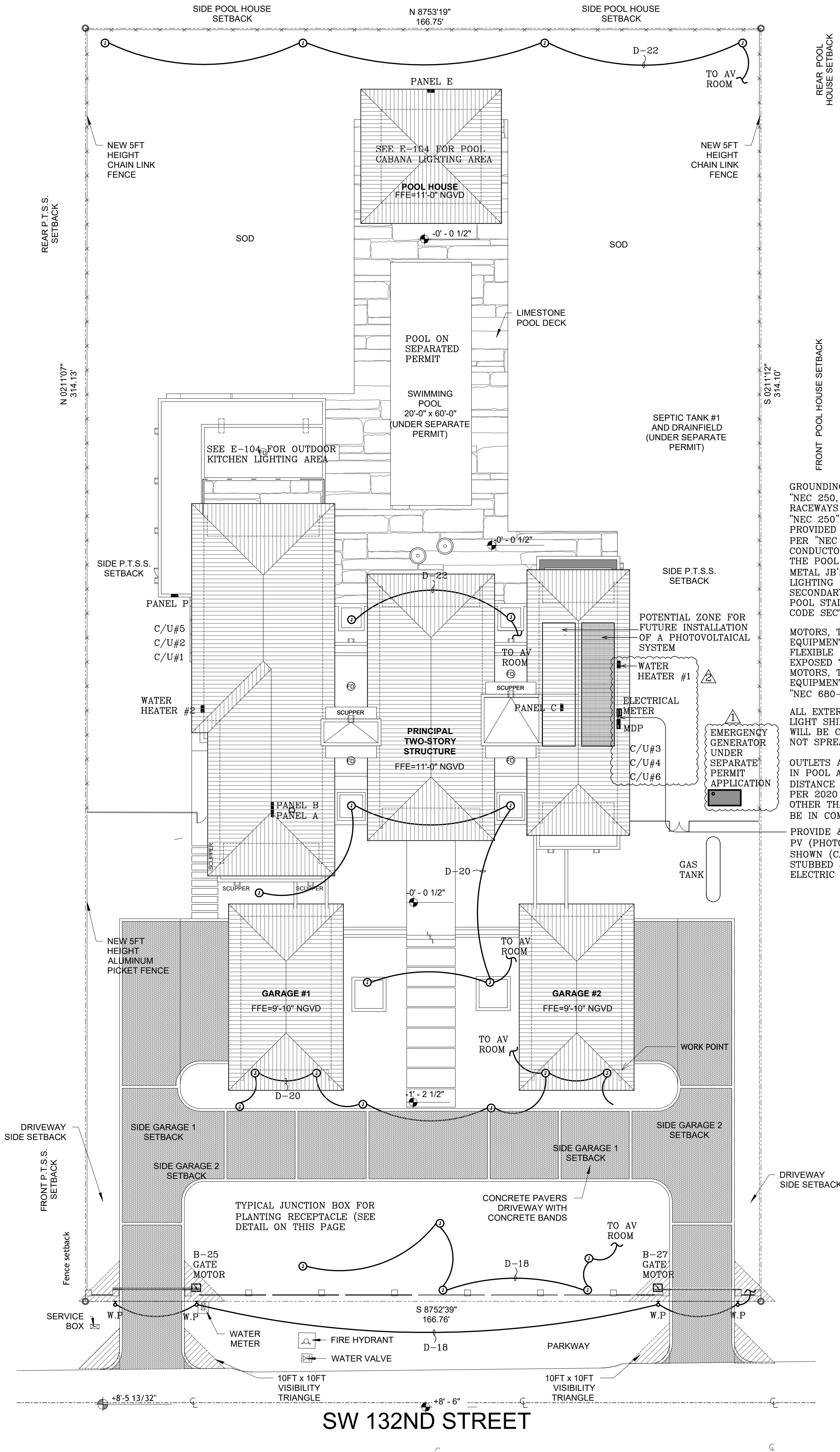


NOTE :
SMOKE/CARBON MONOXIDE DETECTOR SHALL BE HARDWIRE (110 VOLT TYPE) TO A NON-SWITCHABLE AFCI (ARC FAULT) CIRCUIT WITH BATTERY BACK-UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED AS SHOWN IN PARALLEL.

SMOKE CARBON MONOXIDE DETECTOR CONNECTION DETAIL
SCALE : N.T.S.

SMOKE DETECTORS NOTE:

THIS CONTRACTOR SHALL INSTALL ALL SMOKE/CARBON DETECTORS AS PER NFPA 29.5.1.3.1 (ALL POINTS ON THE CEILING SHALL HAVE A SD WITHIN A DISTANCE OF 30ft. TRAVEL DISTANCE (FAMILY AND LIVING ROOM AREAS INCLUDED))



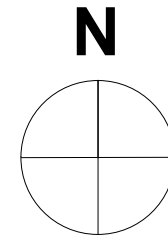
GROUNDING AND BONDING SHALL COMPLY WITH "NEC 250, 680-24 & 25". ALL METALLIC RACEWAYS SHALL BE GROUNDED AND BONDED PER "NEC 250". NON-METALLIC RACEWAYS SHALL BE PROVIDED WITH A GROUNDING CONDUCTOR SIZED PER "NEC 250-95". PROVIDE 1#8 SOLID BOUNDING CONDUCTOR TO CONNECT ALL METAL PARTS AT THE POOL SUCH AS POOL REINFORCE STEEL, METAL JB'S, PUMP MOTORS, METAL CONDUITS, LIGHTING FIXTURES, METAL SHIELD PRIMARY AND SECONDARY WINDING OF POOL TRANSFORMERS, POOL STAIRS, ETC. TO COMPLY WITH 2020 NEC CODE SECTION 680-22.

MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERLIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS. MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT FOR THE POOL AND JACUZZI PER "NEC 680-42".

ALL EXTERIOR LIGHTS SHALL BE EQUIPPED WITH LIGHT SHIELD IN A WAY THAT THE ILLUMINATION WILL BE CONTAINED INSIDE THE PROPERTY AND NOT SPREAD TO THE NEIGHBORS.

OUTLETS AND ANY OTHER EQUIPMENT INSTALLED IN POOL AREA SHALL BE INSTALL AT A MINIMUM DISTANCE OF 10'-0" FROM POOL'S EDGE OR AS PER 2020 NEC CODE SECTION 680. RECEPTACLES OTHER THAN REQUIRED OUTLETS FOR POOL WILL BE IN COMPLIANCE WITH NEC 680.26(A)(3).

PROVIDE & INSTALL 1" EMT CONDUIT FROM PV (PHOTOVOLTAIC SYSTEM) ARRAY AREA SHOWN (CAPPED & FLASHED) LEADING TO A STUBBED JUNCTION BOX ADJACENT TO THE ELECTRIC METER FOR FUTURE SOLAR SYSTEM.



ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

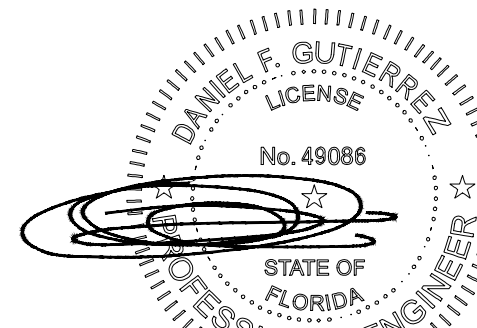
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WESLEY CHAPEL
FL 33607
Email: danny@dfgeniengr.com

DG CONSULTING ENGINEERS, LLC
DESIGN - INSPECTIONS

HERRERA
RESIDENCE

6825 SW 132nd St,
Pinecrest, FL 33156.

SEAL



07-24-25

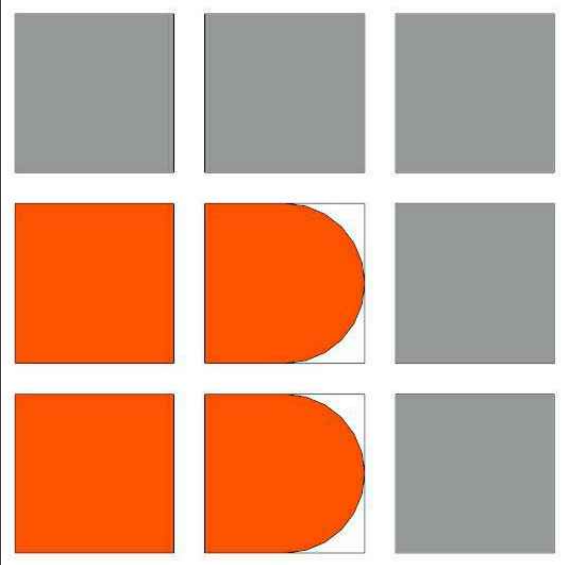
DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER

LIC. #049086

REVISIONS

NO.	DESC	DATE
1.	Bldg Dept Comm	07-24-25
2.	Owner Revision	07-24-25

PERMIT SET



BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER: HERRERA
CHECKED BY: GB
ISSUE DATE: 04/25/2025
SCALE: AS NOTED

SHEET TITLE

ELECTRICAL SITE
PLAN

SHEET NUMBER

E-101

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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

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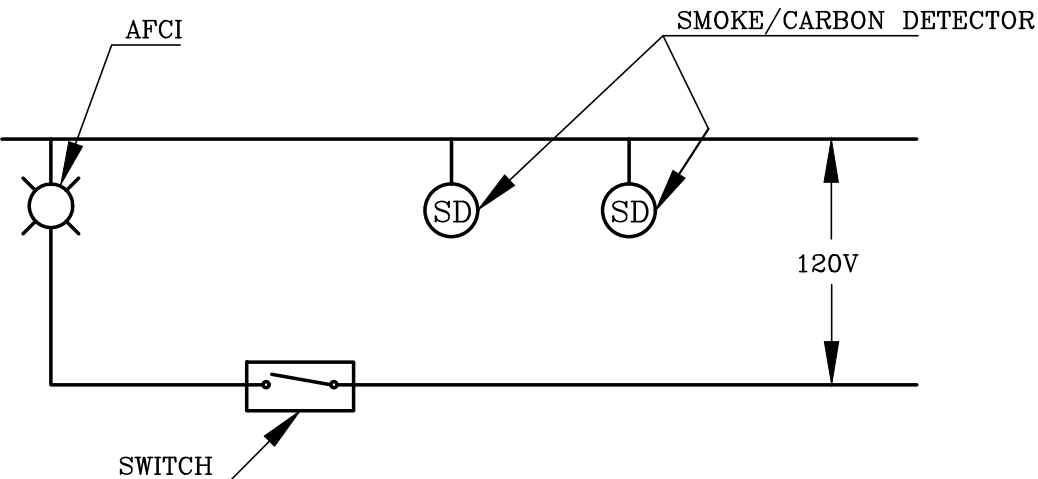
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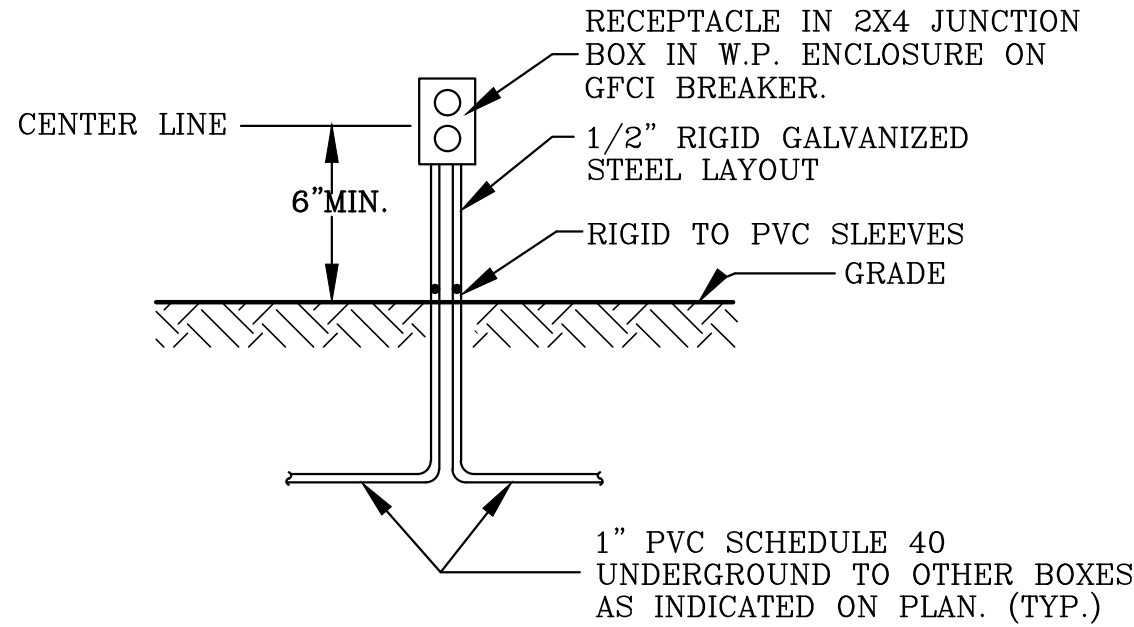
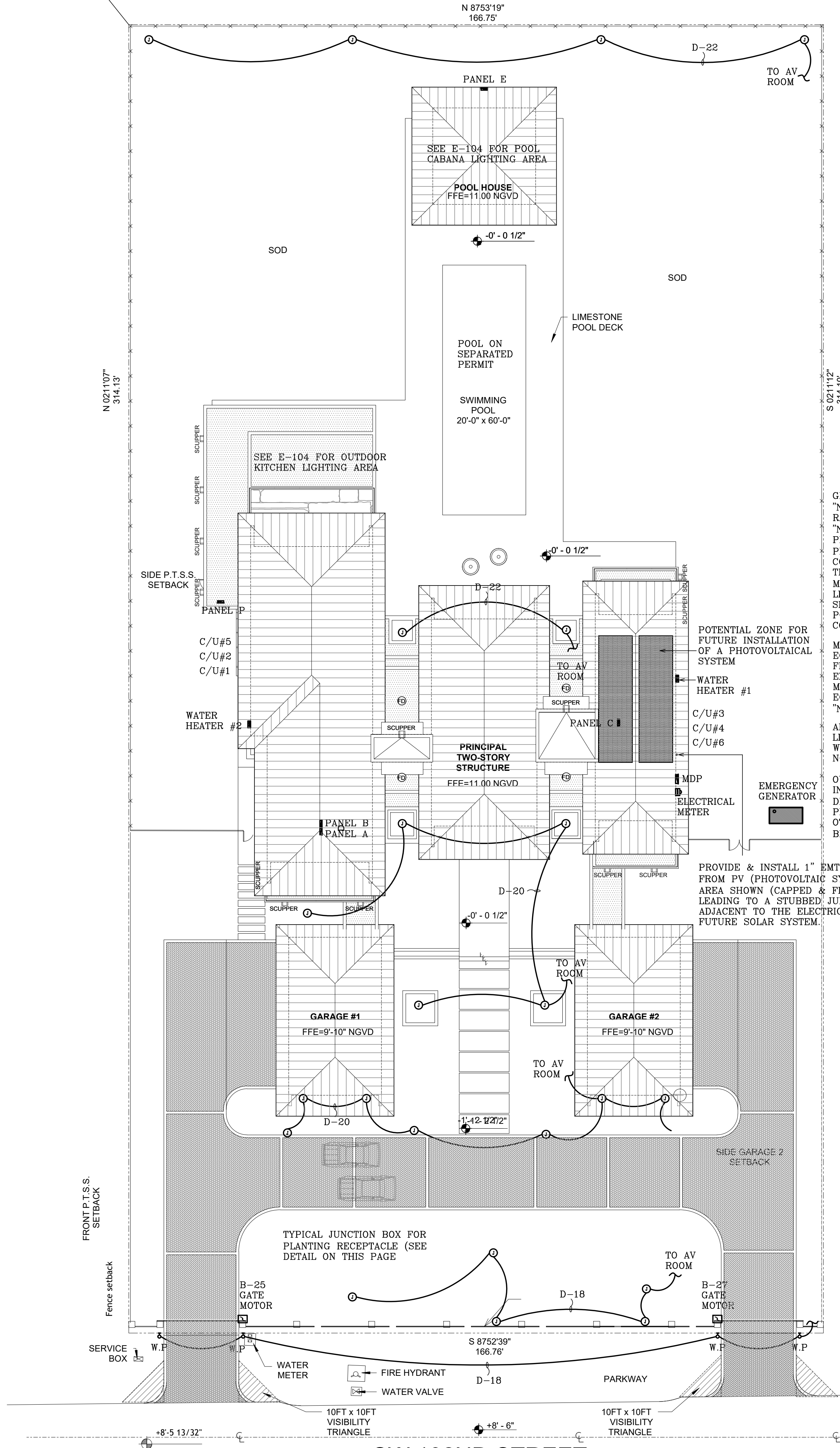


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SCALE : N.T.S.

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TYPICAL SUPPORT FOR RECEPTACLE
AT PLANTING AREA-NIC

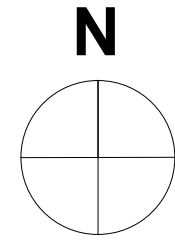
NO SCALE

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ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

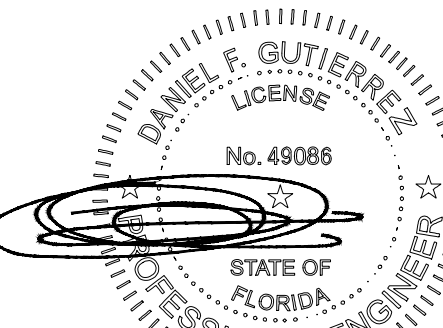
2911 KINSINGTON COURT
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Email: danny@dfgeniengs.com

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DESIGN - INSPECTIONS

HERRERA
RESIDENCE

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Pinecrest, FL 33156.

SEAL



05-14-25

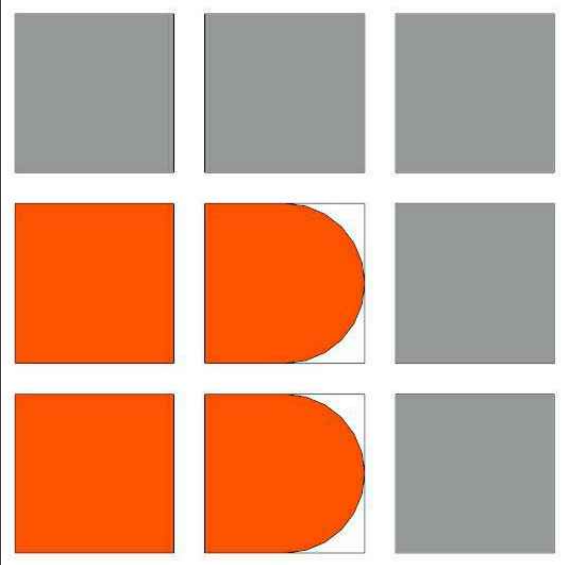
DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER

LIC. #049086

REVISIONS

NO.	DESC	DATE

PERMIT SET



BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER: HERRERA
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SCALE: AS NOTED

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ELECTRICAL SITE
PLAN

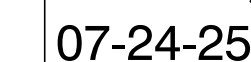
SHEET NUMBER

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E-101

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Pinecrest, FL 33156.

SEAL



DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER

LIC. #049086

REVISIONS

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SCALE:	AS NOTED

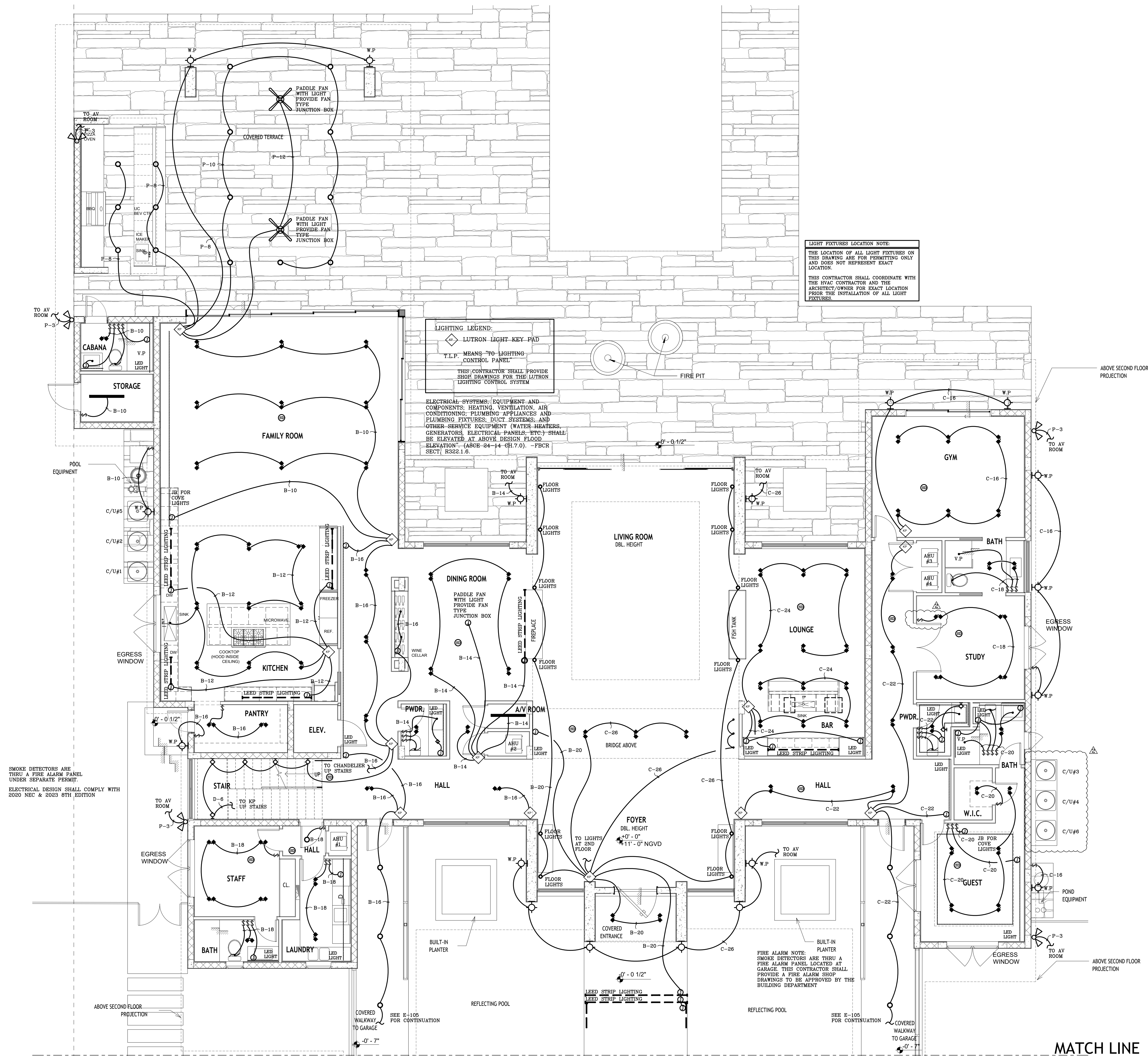
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ELECTRICAL LIGHTING 1ST FLOOR PLAN

SHEET NUMBER

E-102

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FL 33143



 ELECTRICAL LIGHTING 1ST FLOOR PLAN
SCALE: 3/16"=1'-0"

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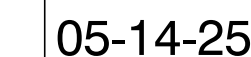
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DG CONSULTING ENGINEERS, LLC
DESIGN - INSPECTIONS

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SEAL



DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER

LIC. #04908

REVISIONS

[illegible]

PERMIT SET



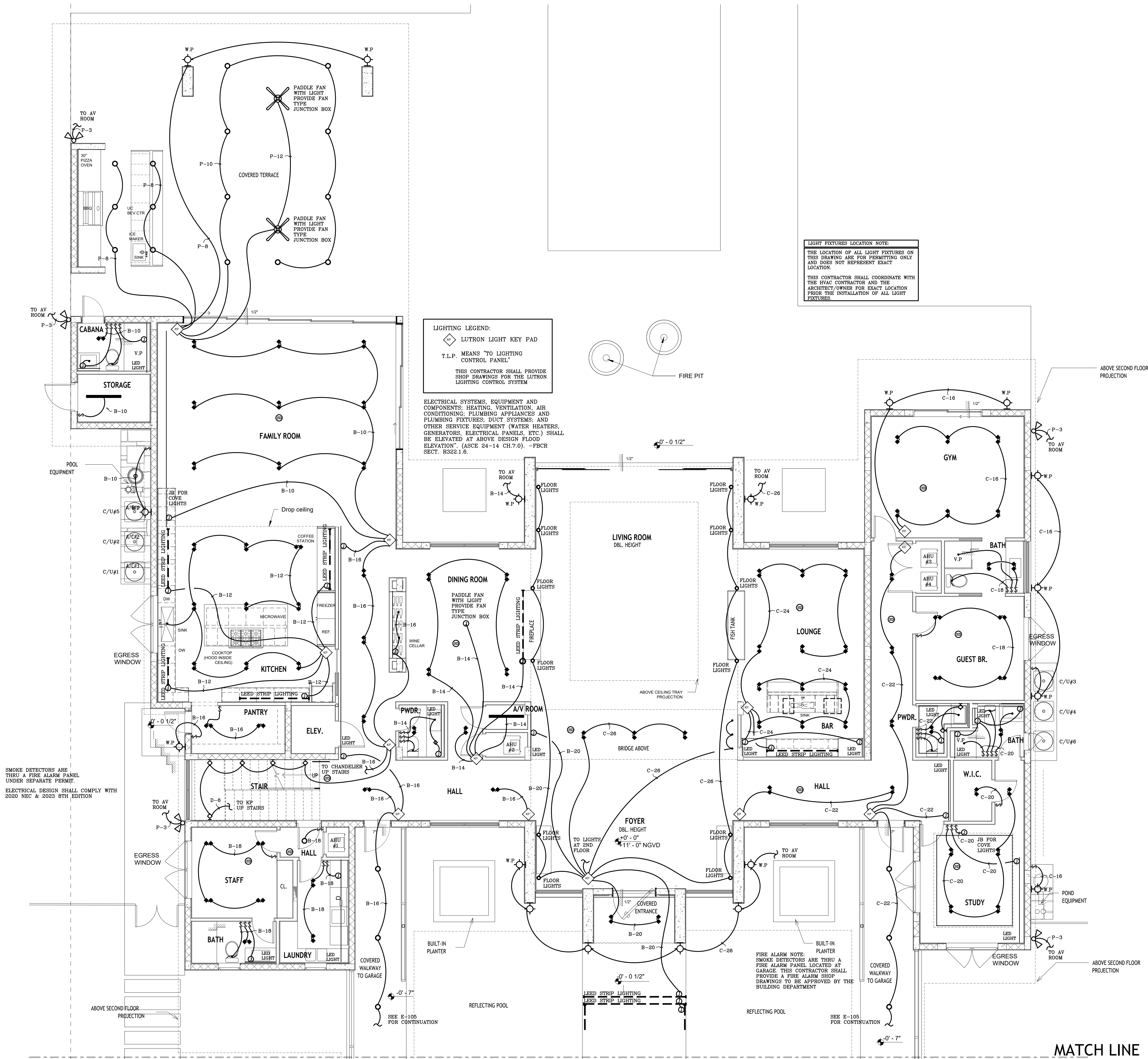
JOB NUMBER:	HERRERA
CHECKED BY:	GB
ISSUE DATE:	04/25/2025
SCALE:	AS NOTED

SHEET TITLE

ELECTRICAL LIGHTING 1ST FLOOR PLAN

VOID
SHEET NUMBER
E-102

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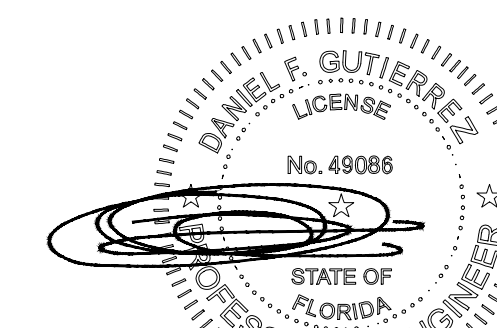
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SEAL



05-14-25

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[illegible]**PERMIT SET**

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CHECKED BY:	GB
ISSUE DATE:	04/25/2025
SCALE:	AS NOTED

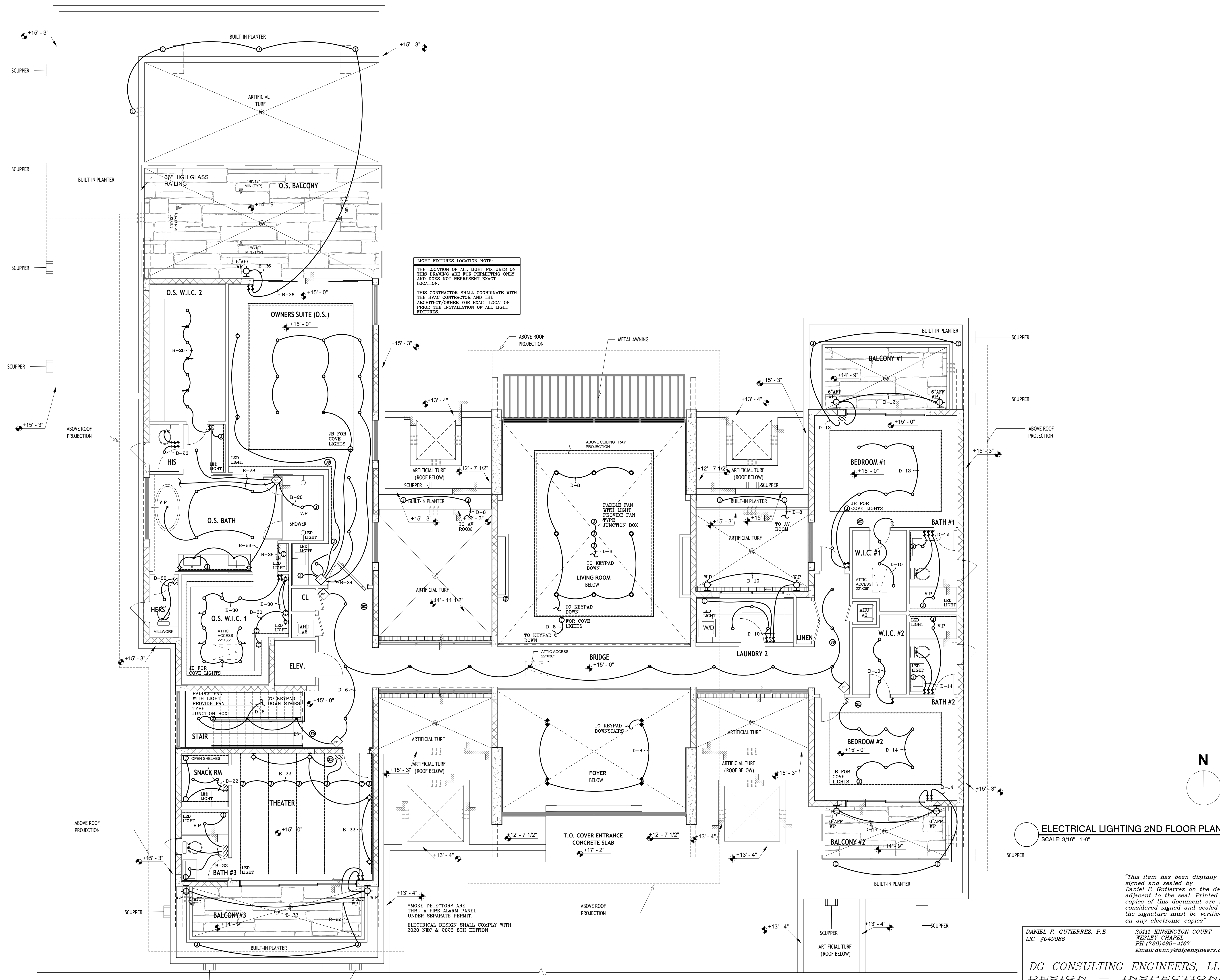
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ELECTRICAL LIGHTING 2ND FLOOR PLAN

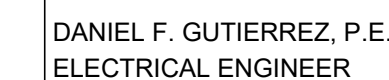
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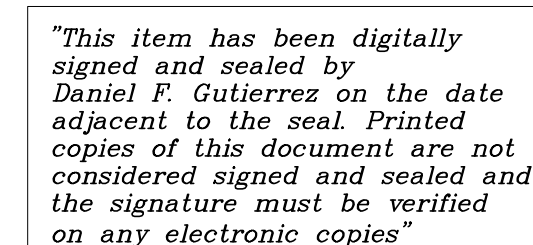
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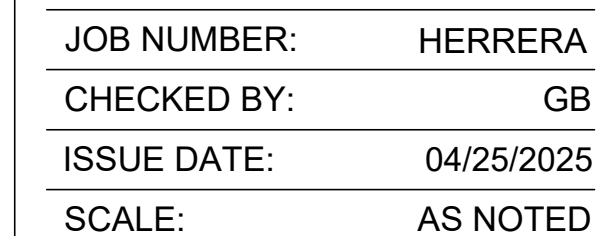
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WESLEY CHAPEL
PH: (786)499-4167
Email: danny@dfgengineers.com

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Pinecrest, FL 33156.

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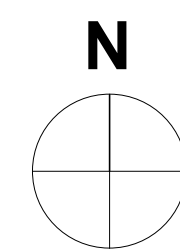
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ELECTRICAL POWER 1ST FLOOR PLAN

E-105

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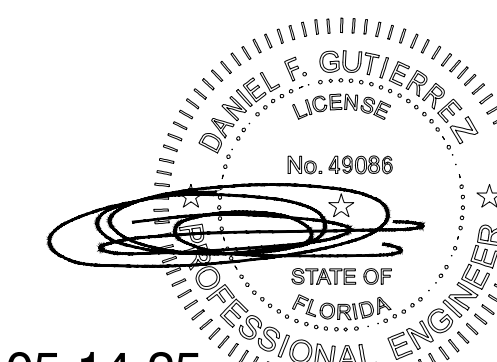
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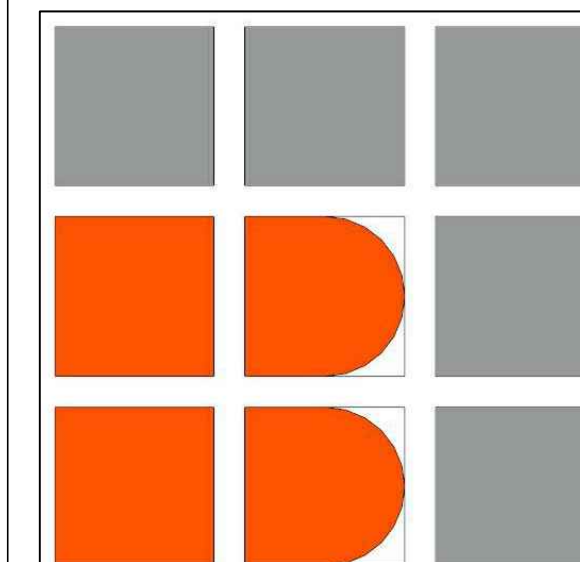
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ARCHITECTURE INTERIORS CONSTRUCTION

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ISSUE DATE: 04/25/2025

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SHEET TITLE

ELECTRICAL POWER 1ST FLOOR PLAN

SHEET NUMBER

VOID
E-105

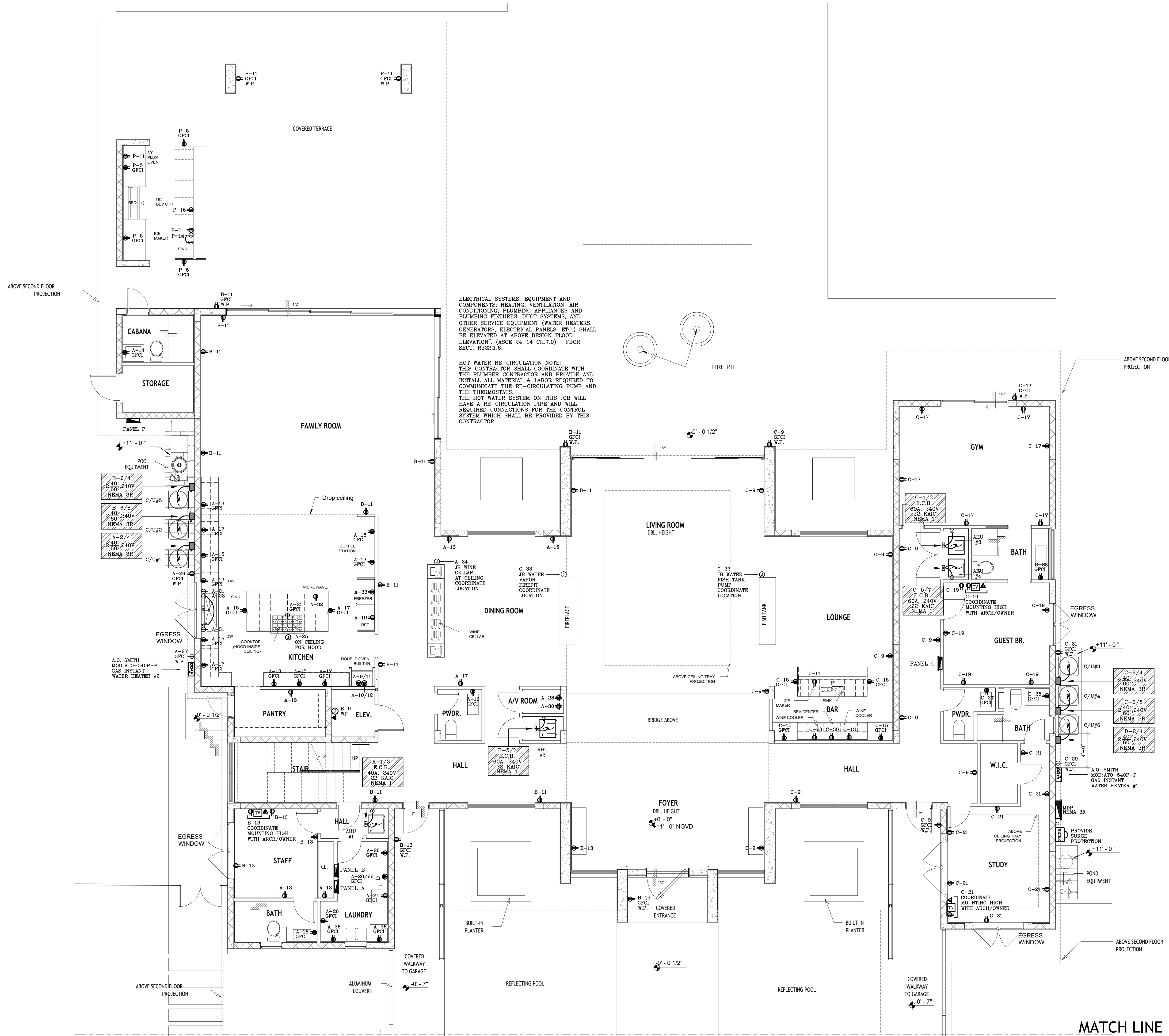
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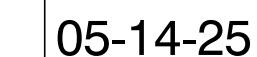
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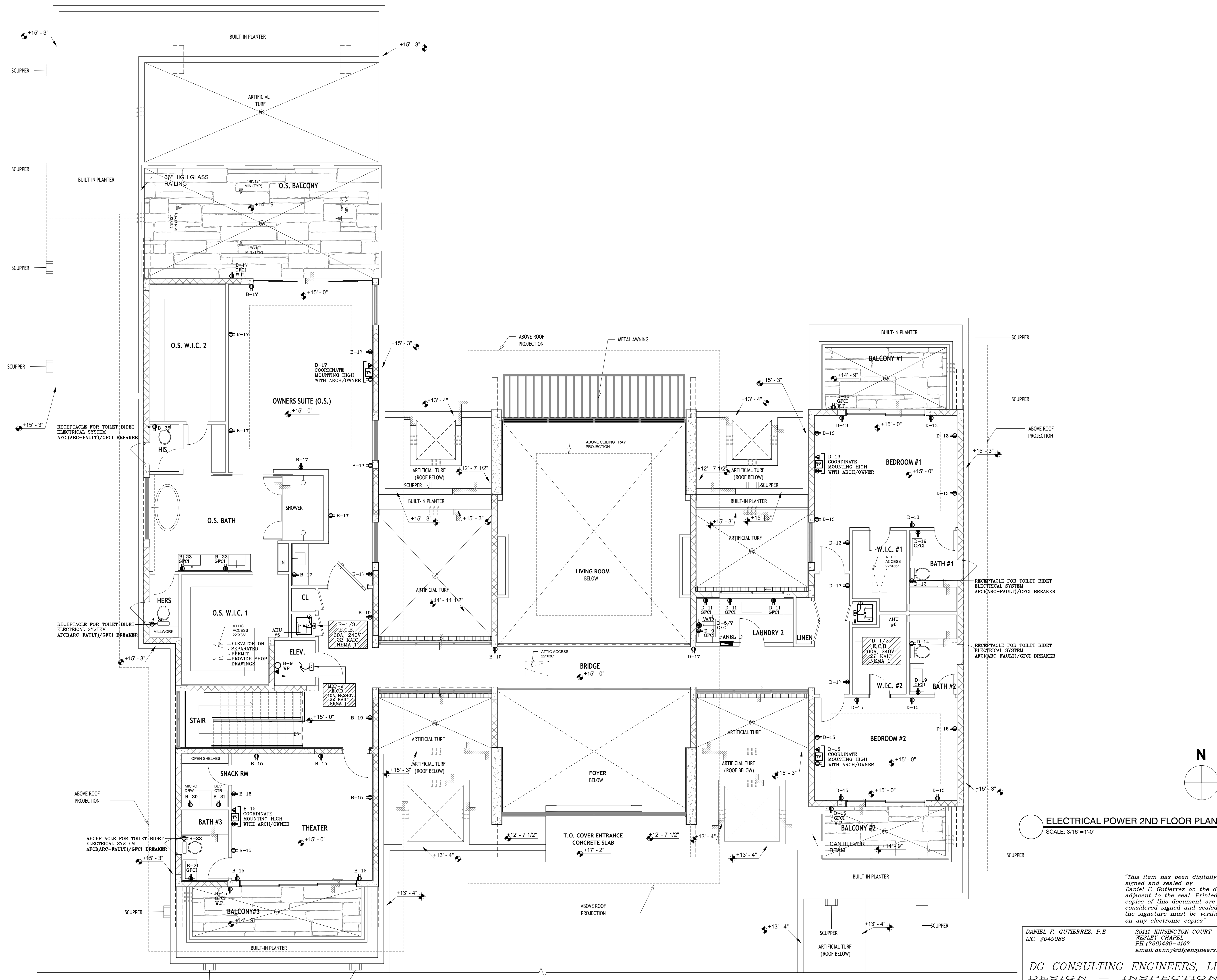
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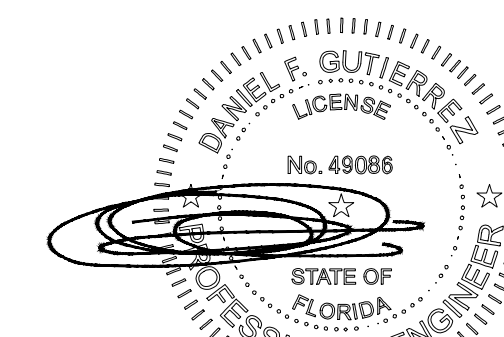
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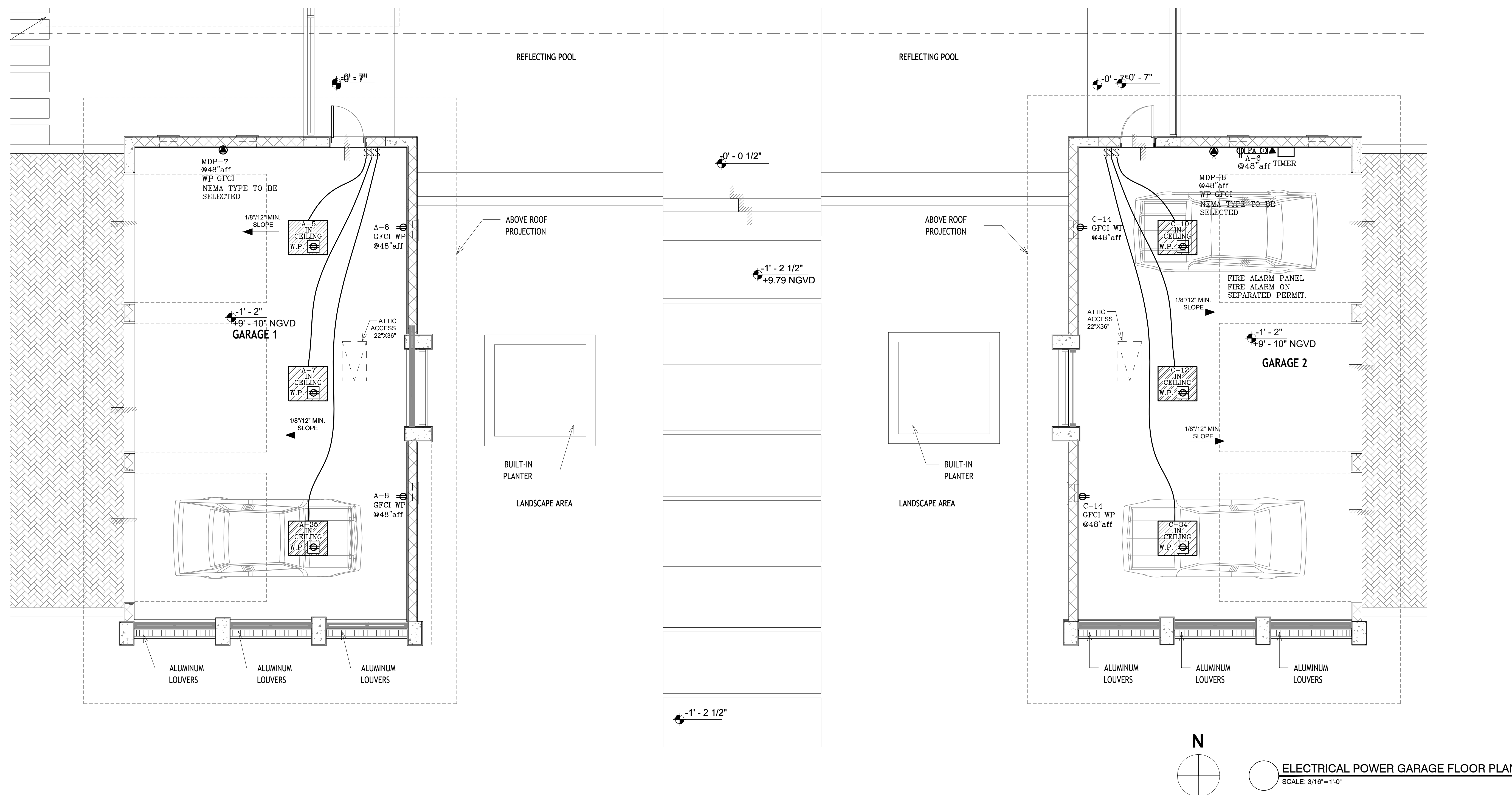
SHEET TITLE

ELECTRICAL POWER GARAGE FLOOR PLAN

SHEET NUMBER

E-107

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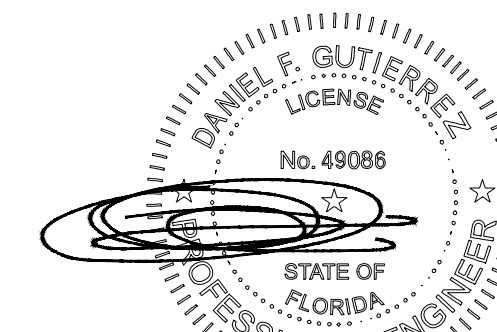
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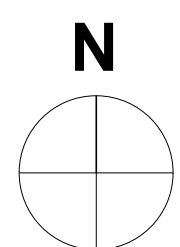
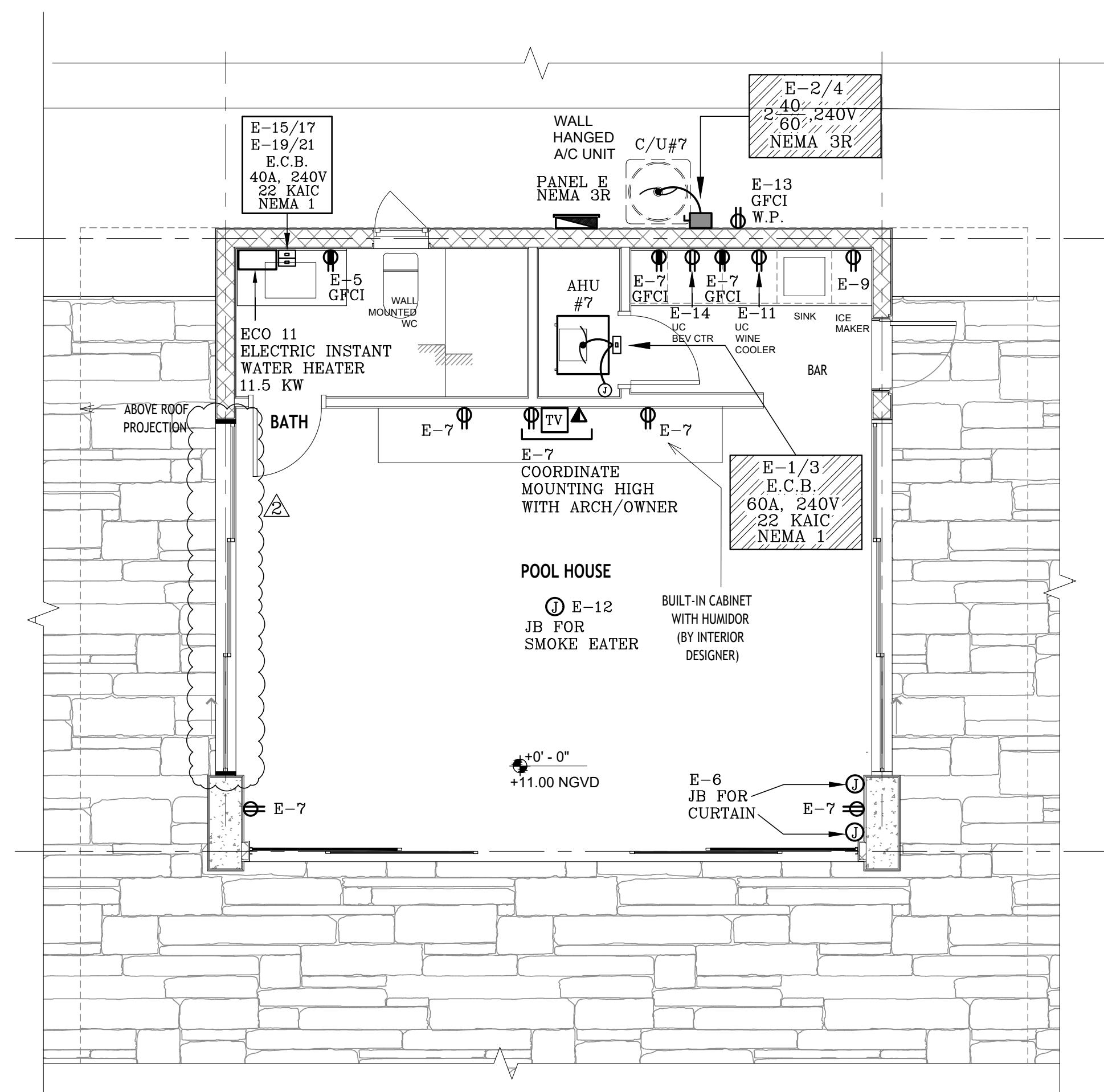
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ELECTRICAL POWER & LIGHTING POOL HOUSE FLOOR PLAN

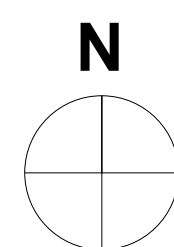
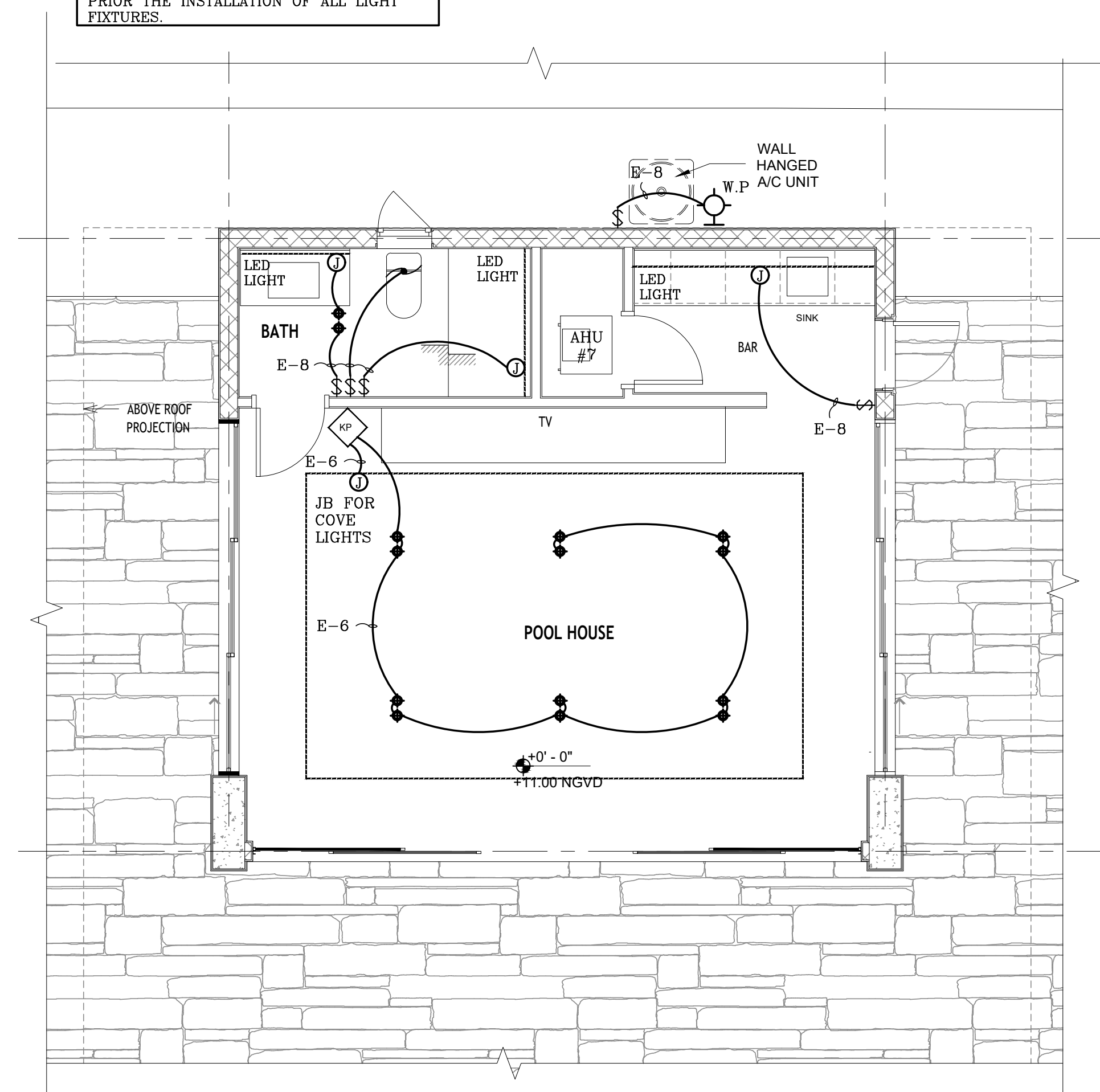
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ELECTRICAL POWER POOL CABANA FLOOR PLAN
SCALE: 1/4"=1'-0"



ELECTRICAL LIGHTING POOL CABANA FLOOR PLAN
SCALE: 1/4" = 1'-0"

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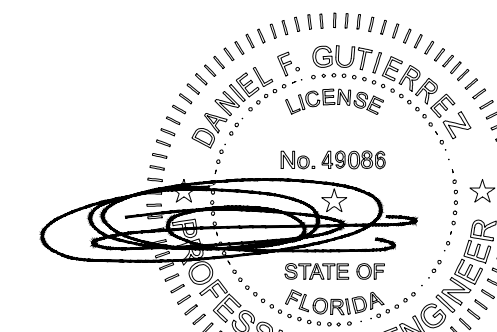
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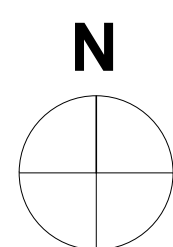
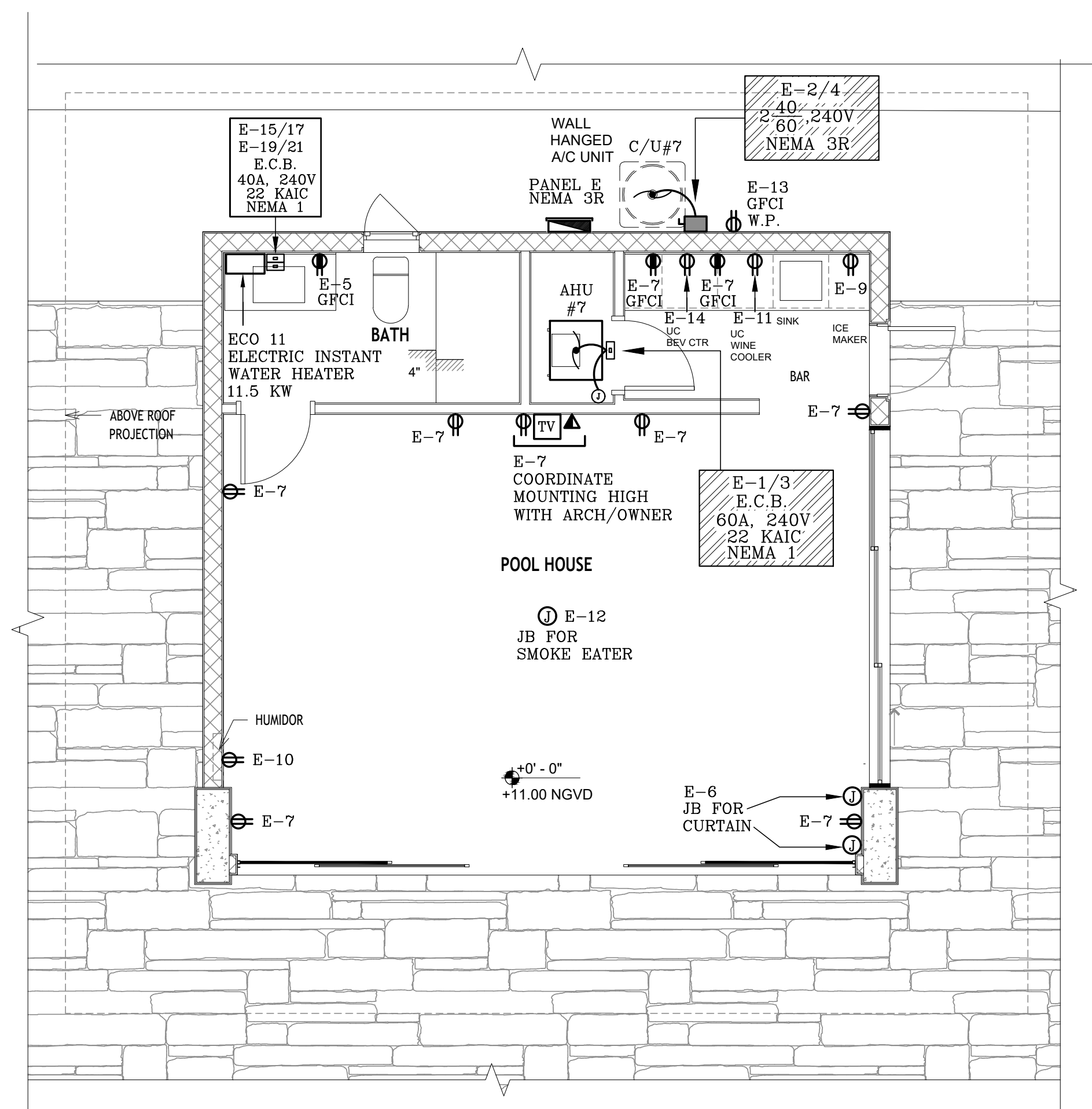
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ELECTRICAL POWER & LIGHTING POOL HOUSE FLOOR PLAN

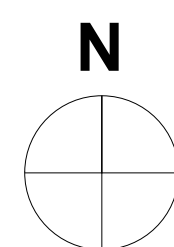
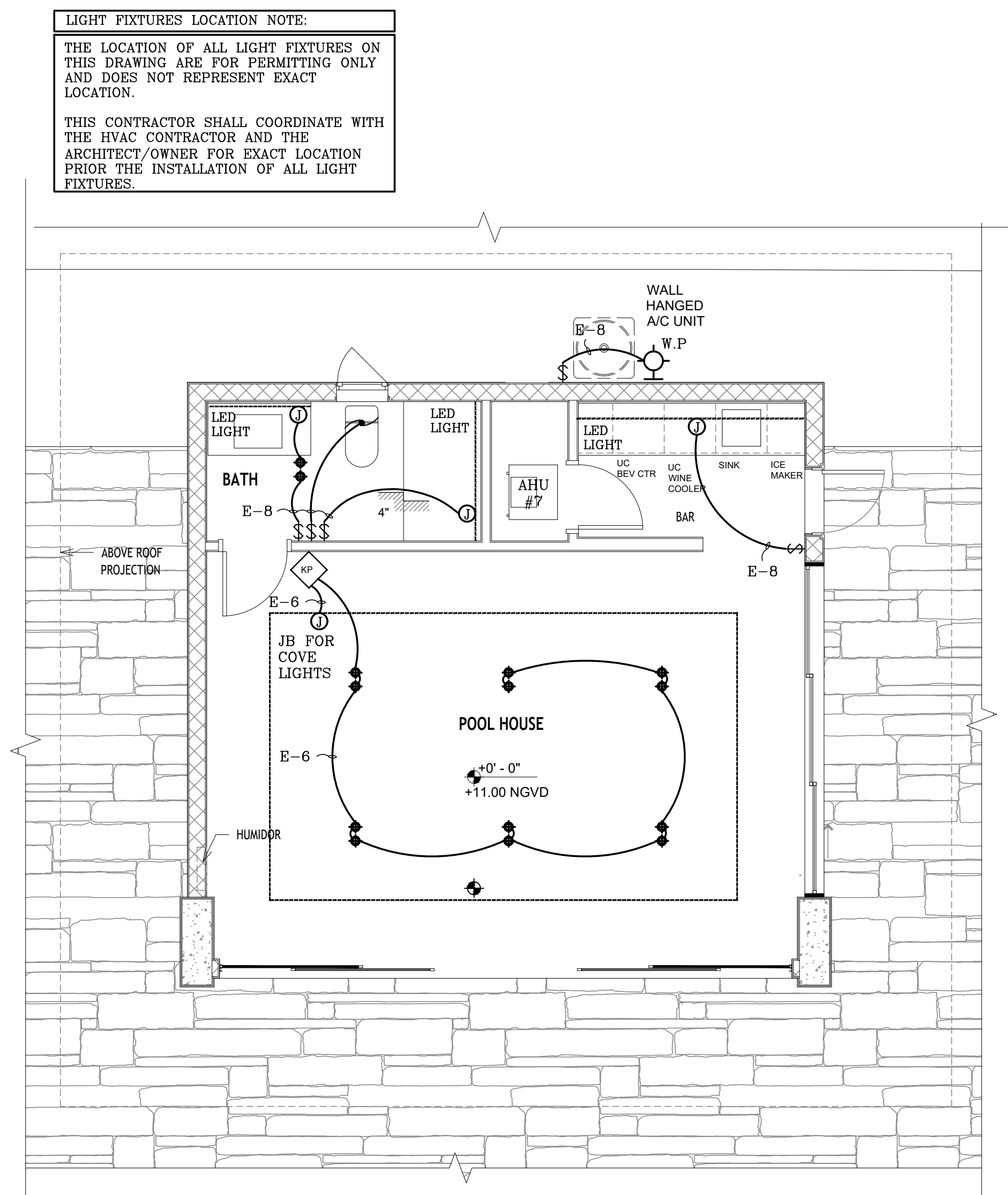
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ELECTRICAL POWER POOL CABANA FLOOR PLAN
SCALE: 1/4"=1'-0"



ELECTRICAL LIGHTING POOL CABANA FLOOR PLAN
SCALE: 1/4"=1'-0"

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PH: (786) 499-4167
Email: danny@dfgengineers.com

DG CONSULTING ENGINEERS, LLC
DESIGN — INSPECTIONS

TYPE: SIEMENS ITE					PANEL A					MAIN BUS: 225 AMPS					
SERVICE: 1Ø, 3W										NEUTRAL: F/N					
VOLTAGE: 120/240 V.										MAIN: M.L.O.					
MOUNTING: FLUSH										LOCATION: WALL					
22 KAIC (SERIES RATED WITH MDP)															
NEMA 1															
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS		
5.50	2	40	3/4"	#8	AHU#1 W/5KW HEATER	1	2	CU#1	#8	3/4"	40	2	6.25		
						3	4								
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	5	6	* FIRE ALARM	#12	3/4"	20	1	1.00		
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	7	8	* GARAGE RECEPTACLES	#12	3/4"	20	1	0.30		
6.00	2	20	3/4"	#12	* OVEN GFCI MUST CUMPLY WITH NEC 250.140	9	10	* OVEN GFCI MUST CUMPLY WITH NEC 250.140	#12	3/4"	20	2	6.00		
						11	12								
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	13	14	* BATH GFCI	#12	3/4"	20	1	0.30		
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	15	16	* BATH GFCI	#12	3/4"	20	1	0.30		
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	17	18	* BATH GFCI	#12	3/4"	20	1	0.30		
1.50	1	20	3/4"	#12	* REFRIGERATOR GFCI	19	20	DRYER GFCI MUST CUMPLY WITH NEC 250.140	#6	1"	60	2	5.00		
1.20	1	20	3/4"	#12	* DISHWASHER GFCI	21	22								
1.20	1	20	3/4"	#12	* GARBAGE DISPOSAL GFCI	23	24	* WASHER (GFCI)	#12	3/4"	20	1	1.50		
1.00	1	20	3/4"	#12	* HOOD/COOKTOP IGNITION	25	26	* GFCI LAUNDRY RECEPTACLES	#12	3/4"	20	1	0.30		
1.00	1	20	3/4"	#12	* WATER HEATER IGNITER	27	28	* A.V. ROOM RECEPTACLES	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	29	30	* A.V. ROOM RECEPTACLES	#12	3/4"	20	1	1.00		
1.20	1	20	3/4"	#12	* DISHWASHER GFCI	31	32	* MICROWAVE GFCI	#12	3/4"	20	1	1.50		
1.20	1	20	3/4"	#12	* FREEZER GFCI	33	34	* WINE CELLAR GFCI	#12	3/4"	20	1	1.50		
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	35	36	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---		
27.40						TOTAL CONNECTED LOAD: 50.65 KVA TOTAL CONNECTED LOAD WITHOUT CU: 44.40 KVA TOTAL CONNECTED AMPS: 185 amps								23.25	
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC															
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4). ** PROVIDE TIMER/CLOCK															
THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)															
ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.															

TYPE: SIEMENS ITE					PANEL C					MAIN BUS: 225 AMPS																	
SERVICE: 1Ø, 3W										NEUTRAL: F/N																	
VOLTAGE: 120/240 V.					22 KAIC (SERIES RATED WITH MDP)					MAIN: M.L.O.																	
MOUNTING: FLUSH					NEMA 1					LOCATION: WALL																	
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS														
10.50	2	60	1"	#6	AHU#3 W/10KW HEATER	1 3	2 4	CU#3	#8	3/4"	40	2	6.25														
8.50	2	50	3/4"	#6	AHU#4 W/8KW HEATER	5 7	6 8	CU#4	#8	3/4"	40	2	6.25														
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	9	10	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50														
1.20	1	20	3/4"	#12	* BAR ICE MAKER GFCI	11	12	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50														
1.50	1	20	3/4"	#12	* BAR WINE COOLER GFCI	13	14	* GARAGE RECEPTACLES	#12	3/4"	20	1	0.30														
1.50	1	20	3/4"	#12	* BAR SMALL APPLIANCES	15	16	* GYM LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* GYM RECEPTACLES	17	18	* GUEST BEDROOM LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* GUEST BED RM RECEPTACLES	19	20	* STUDY LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* STUDY RECEPTACLES	21	22	* HALL LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	23	24	* LOUNGE/BAR LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	25	26	* LIVING LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	27	28	* BAR WINE COOLER GFCI	#12	3/4"	20	1	1.20														
1.00	1	20	3/4"	#12	* WATER HEATER IGNITER	29	30	* BAR BEVERAGE CENTER GFCI	#12	3/4"	20	1	1.20														
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	31	32	* FISH TANK PUMP	#12	3/4"	20	1	1.20														
1.00	1	20	3/4"	#12	* FIRE PLACE	33	34	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50														
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---														
31.10						TOTAL CONNECTED LOAD: 55.60 KVA TOTAL CONNECTED LOAD WITHOUT CU: 43.10 KVA TOTAL CONNECTED AMPS: 180 amps								24.50													
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC														ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.													
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).														THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)													
** PROVIDE TIMER/CLOCK																											

ALL BATHROOMS TO COMPLY WITH GFCI PROTECTION AS PER NEC 210.52(D)

2023 NEC 210.8(D) - SPECIFIC APPLIANCES O NEW: A NEWLY-EXPANDED LIST OF "SPECIFIC APPLIANCES" WAS ADDED THAT WILL REQUIRE GFCI PROTECTION. REGARDLESS OF WHETHER THEY ARE HARDWIRED OR CORD-AND-PLUG CONNECTED (NEW ADDITIONS INCLUDE ELECTRIC RANGE, WALL-MOUNTED OVEN, COUNTER-MOUNTED COOKING UNIT, CLOTHES DRYER, AND MICROWAVE).

TYPE: SIEMENS ITE					PANEL B										MAIN BUS: 225 AMPS												
SERVICE: 1Ø, 3W															NEUTRAL: F/N												
VOLTAGE: 120/240 V.					22 KAIC (SERIES RATED WITH MDP)										MAIN: M.L.O.												
MOUNTING: FLUSH					NEMA 1										LOCATION: WALL												
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.														
10.50	2	60	1"	#6	AHU#5 W/10KW HEATER	1	2	CU#5	#8	3/4"	40	2	6.25														
						3	4																				
10.50	2	60	1"	#6	AHU#2 W/10KW HEATER	5	6	CU#2	#8	3/4"	40	2	6.25														
						7	8																				
1.00	1	20	3/4"	#12	* ELEVATOR LIGHT/RECEPTACLE	9	10	* FAMILY LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	11	12	* KITCHEN LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* STAFF RECEPTACLES	13	14	* DINING LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* THEATER RECEPTACLES	15	16	* HALL LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* MASTER BED RM RECEPTACLES	17	18	* STAFF/LAUNDRY LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	19	20	* LIVING LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	21	22	* BEDROOM #3 LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	23	24	* MASTER BEDROOM LIGHTS	#12	3/4"	20	1	1.00														
1.20	1	20	3/4"	#12	* GATE MOTOR GFCI	25	26	* MASTER BEDROOM LIGHTS	#12	3/4"	20	1	1.00														
1.20	1	20	3/4"	#12	* GATE MOTOR GFCI	27	28	* MASTER BATHROOM LIGHTS	#12	3/4"	20	1	1.00														
1.50	1	20	3/4"	#12	* MICROWAVE GFCI	29	30	* MASTER BATHROOM LIGHTS	#12	3/4"	20	1	1.00														
1.20	1	20	3/4"	#12	* BEVERAGE CENTER GFCI	31	32	* GARAGE LIGHTS	#12	3/4"	20	1	1.00														
---	1	--	--	--	SPACE	33	34	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---														
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---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---														
31.20		TOTAL CONNECTED LOAD: 55.70 KVA TOTAL CONNECTED LOAD WITHOUT CU: 43.20 KVA TOTAL CONNECTED AMPS: 180 amps											24.50														
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC														ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.													
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).														THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)													
** PROVIDE TIMER/CLOCK																											

TYPE: <u>SIEMENS ITE</u>						PANEL D 22 KAIC (SERIES RATED WITH MDP) NEMA 1						MAIN BUS: <u>150 AMPS</u>															
SERVICE: <u>1Ø, 3W</u>												NEUTRAL: <u>F/N</u>															
VOLTAGE: <u>120/240 V.</u>												MAIN: <u>M.L.O.</u>															
MOUNTING: <u>FLUSH</u>												LOCATION: <u>WALL</u>															
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.														
8.50	2	50	3/4"	#6	AHU#6 W/8KW HEATER	1	2	CU#6	#8	3/4"	40	2	6.25														
						3	4																				
						5	6																				
5.00	2	60	1"	#6	DRYER GFCI MUST CUMPLY WITH NEC 250.140	7	8	* HALL LIGHTS	#12	3/4"	20	1	1.00														
								* LIVING/FOYER LIGHTS	#12	3/4"	20	1	1.00														
1.50	1	20	3/4"	#12	* WASHER GFCI	9	10	* LAUNDRY LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* GFCI LAUNDRY RECEPTACLES	11	12	* BEDROOM #1 LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* BEDROOM #1 RECEPTACLES	13	14	* BEDROOM #2 LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* BEDROOM #2 RECEPTACLES	15	16	* GARAGE LIGHTS	#12	3/4"	20	1	1.00														
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	17	18	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	19	20	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00														
0.30	1	20	3/4"	#12	* BATH GFCI	21	22	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00														
---	1	--	--	--	SPACE	23	24	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	25	26	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	27	28	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	29	30	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	31	32	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	33	34	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---														
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---														
18.90						TOTAL CONNECTED LOAD: 34.15 KVA TOTAL CONNECTED LOAD WITHOUT CU: 27.90 KVA TOTAL CONNECTED AMPS: 116 amps								15.25													
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC														ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.													
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).														THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)													
** PROVIDE TIMER/CLOCK																											

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

29111 KINSINGTON COURT
WESLEY CHAPEL
FL 33607
Email: danny@dfgeniengr.com

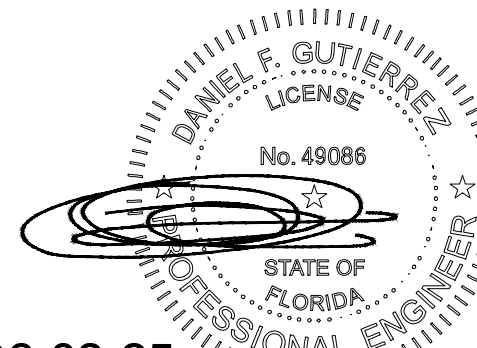
DG CONSULTING ENGINEERS, LLC
DESIGN — INSPECTIONS

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

HERRERA RESIDENCE

6825 SW 132nd St,
Pinecrest, FL 33156.

SEAL



06-03-25
DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER

LIC. #049086

NO.	DESC	DATE
1.	Panel C to 225amps	06-03-25

REVISIONS

PERMIT SET



BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER: HERRERA
CHECKED BY: GB
ISSUE DATE: 04/25/2025
SCALE: AS NOTED

SHEET TITLE

ELECTRICAL PANELS

SHEET NUMBER

E-109

COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

TYPE:	SIEMENS ITE										MAIN BUS: 225 AMPS			
SERVICE:	1Ø, 3W										NEUTRAL: F/N			
VOLTAGE:	120/240 V.										MAIN: M.L.O.			
MOUNTING:	FLUSH										LOCATION: WALL			
PANEL A														
22 KAIC (SERIES RATED WITH MDP)														
NEMA 1														
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.	
5.50	2	40	3/4"	#8	AHU#1 W/5KW HEATER	1	2	CU#1	#8	3/4"	40	2	6.25	
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	5	6	* FIRE ALARM	#12	3/4"	20	1	1.00	
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	7	8	* GARAGE RECEPTACLES	#12	3/4"	20	1	0.30	
6.00	2	20	3/4"	#12	* OVEN GFCI MUST CUMPLY WITH NEC 250.140	9	10	* OVEN GFCI MUST CUMPLY WITH NEC 250.140	#12	3/4"	20	2	6.00	
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	13	14	* BATH GFCI	#12	3/4"	20	1	0.30	
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	15	16	* BATH GFCI	#12	3/4"	20	1	0.30	
1.50	1	20	3/4"	#12	* SMALL APPLIANCES	17	18	* BATH GFCI	#12	3/4"	20	1	0.30	
1.50	1	20	3/4"	#12	* REFRIGERATOR GFCI	19	20	DRYER GFCI MUST CUMPLY WITH NEC 250.140	#6	1"	60	2	5.00	
1.20	1	20	3/4"	#12	* DISHWASHER GFCI	21	22							
1.20	1	20	3/4"	#12	* GARBAGE DISPOSAL GFCI	23	24	* WASHER (GFCI)	#12	3/4"	20	1	1.50	
1.00	1	20	3/4"	#12	* HOOD/COOKTOP IGNITION	25	26	* GFCI LAUNDRY RECEPTACLES	#12	3/4"	20	1	0.30	
1.00	1	20	3/4"	#12	* WATER HEATER IGNITER	27	28	* A.V. ROOM RECEPTACLES	#12	3/4"	20	1	1.00	
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	29	30	* A.V. ROOM RECEPTACLES	#12	3/4"	20	1	1.00	
1.20	1	20	3/4"	#12	* DISHWASHER GFCI	31	32	* MICROWAVE GFCI	#12	3/4"	20	1	1.50	
1.20	1	20	3/4"	#12	* FREEZER GFCI	33	34	* WINE CELLAR GFCI	#12	3/4"	20	1	1.50	
1.50	1	20	3/4"	#12	* GARAGE DOOR MOTOR	35	36	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---	
27.40											23.25			
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC					TOTAL CONNECTED LOAD: 50.65 KVA TOTAL CONNECTED LOAD WITHOUT CU: 44.40 KVA TOTAL CONNECTED AMPS: 185 amps									
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4). ** PROVIDE TIMER/CLOCK					THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)					ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.				

TYPE: SIEMENS ITE					PANEL C					MAIN BUS: 225 AMPS					
SERVICE: 1Ø, 3W										NEUTRAL: F/N					
VOLTAGE: 120/240 V.										MAIN: M.L.O.					
MOUNTING: FLUSH										LOCATION: WALL					
22 KAIC (SERIES RATED WITH MDP)															
NEMA 1															
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.		
10.50	2	60	1"	#6	AHU#3 W/10KW HEATER	1	2	CU#3	#8	3/4"	40	2	6.25		
						3	4								
8.50	2	50	3/4"	#6	AHU#4 W/8KW HEATER	5	6	CU#4	#8	3/4"	40	2	6.25		
						7	8								
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	9	10	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50		
1.20	1	20	3/4"	#12	* BAR ICE MAKER GFCI	11	12	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50		
1.50	1	20	3/4"	#12	* BAR WINE COOLER GFCI	13	14	* GARAGE RECEPTACLES	#12	3/4"	20	1	0.30		
1.50	1	20	3/4"	#12	* BAR SMALL APPLIANCES	15	16	* GYM LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* GYM RECEPTACLES	17	18	* GUEST BEDROOM LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* GUEST BED RM RECEPTACLES	19	20	* STUDY LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* STUDY RECEPTACLES	21	22	* HALL LIGHTS	#12	3/4"	20	1	1.00		
0.30	1	20	3/4"	#12	* BATH GFCI	23	24	* LOUNGE/BAR LIGHTS	#12	3/4"	20	1	1.00		
0.30	1	20	3/4"	#12	* BATH GFCI	25	26	* LIVING LIGHTS	#12	3/4"	20	1	1.00		
0.30	1	20	3/4"	#12	* BATH GFCI	27	28	* BAR WINE COOLER GFCI	#12	3/4"	20	1	1.20		
1.00	1	20	3/4"	#12	* WATER HEATER IGNITER	29	30	* BAR BEVERAGE CENTER GFCI	#12	3/4"	20	1	1.20		
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	31	32	* FISH TANK PUMP	#12	3/4"	20	1	1.20		
1.00	1	20	3/4"	#12	* FIRE PLACE	33	34	* GARAGE DOOR MOTOR	#12	3/4"	20	1	1.50		
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---		
31.10						TOTAL CONNECTED LOAD: 55.60 KVA TOTAL CONNECTED LOAD WITHOUT CU: 43.10 KVA TOTAL CONNECTED AMPS: 180 amps								24.50	
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC															
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4). ** PROVIDE TIMER/CLOCK															
THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)															
ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.															

ALL BATHROOMS TO COMPLY WITH GFCI PROTECTION AS PER NEC 210.52(D)

2023 NEC 210.8(D) - SPECIFIC APPLIANCES O NEW: A NEWLY-EXPANDED LIST OF "SPECIFIC APPLIANCES" WAS ADDED THAT WILL REQUIRE GFCI PROTECTION REGARDLESS OF WHETHER THEY ARE HARDWIRED OR CORD-AND-PLUG CONNECTED (NEW ADDITIONS INCLUDE ELECTRIC RANGE, WALL-MOUNTED OVEN, COUNTER-MOUNTED COOKING UNIT, CLOTHES DRYER, AND MICROWAVE).

TYPE:	SIEMENS ITE										MAIN BUS: 225 AMPS				
SERVICE:	1Ø, 3W										NEUTRAL: F/N				
VOLTAGE:	120/240 V.										MAIN: M.L.O.				
MOUNTING:	FLUSH										LOCATION: WALL				
PANEL B															
22 KAIC (SERIES RATED WITH MDP)															
NEMA 1															
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.		
10.50	2	60	1"	#6	AHU#5 W/10KW HEATER	1	2	CU#5	#8	3/4"	40	2	6.25		
						3	4								
10.50	2	60	1"	#6	AHU#2 W/10KW HEATER	5	6	CU#2	#8	3/4"	40	2	6.25		
						7	8								
1.00	1	20	3/4"	#12	* ELEVATOR LIGHT/RECEPTACLE	9	10	* FAMILY LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	11	12	* KITCHEN LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* STAFF RECEPTACLES	13	14	* DINING LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* THEATER RECEPTACLES	15	16	* HALL LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* MASTER BED RM RECEPTACLES	17	18	* STAFF/LAUNDRY LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	19	20	* LIVING LIGHTS	#12	3/4"	20	1	1.00		
0.30	1	20	3/4"	#12	* BATH GFCI	21	22	* BEDROOM #3 LIGHTS	#12	3/4"	20	1	1.00		
0.30	1	20	3/4"	#12	* BATH GFCI	23	24	* MASTER BEDROOM LIGHTS	#12	3/4"	20	1	1.00		
1.20	1	20	3/4"	#12	* GATE MOTOR GFCI	25	26	* MASTER BEDROOM LIGHTS	#12	3/4"	20	1	1.00		
1.20	1	20	3/4"	#12	* GATE MOTOR GFCI	27	28	* MASTER BATHROOM LIGHTS	#12	3/4"	20	1	1.00		
1.50	1	20	3/4"	#12	* MICROWAVE GFCI	29	30	* MASTER BATHROOM LIGHTS	#12	3/4"	20	1	1.00		
1.20	1	20	3/4"	#12	* BEVERAGE CENTER GFCI	31	32	* GARAGE LIGHTS	#12	3/4"	20	1	1.00		
---	1	--	--	--	SPACE	33	34	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---		
31.20						TOTAL CONNECTED LOAD: 55.70 KVA								24.50	
						TOTAL CONNECTED LOAD WITHOUT CU: 43.20 KVA									
						TOTAL CONNECTED AMPS: 180 amps									
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC															
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).															
** PROVIDE TIMER/CLOCK															
THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)															
ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.															

TYPE:	SIEMENS ITE				PANEL D				MAIN BUS: 125 AMPS					
SERVICE:	1Ø, 3W								NEUTRAL: F/N					
VOLTAGE:	120/240 V.				22 KAIC (SERIES RATED WITH MDP)				MAIN: M.L.O.					
MOUNTING:	FLUSH				NEMA 1				LOCATION: WALL					
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.	
8.50	2	50	3/4"	#6	AHU#6 W/8KW HEATER	1	2	CU#6	#8	3/4"	40	2	6.25	
						3	4							
5.00	2	60	1"	#6	DRYER GFCI MUST CUMPLY WITH NEC 250.140	5	6	* HALL LIGHTS	#12	3/4"	20	1	1.00	
						7	8	* LIVING/FOYER LIGHTS	#12	3/4"	20	1	1.00	
1.50	1	20	3/4"	#12	* WASHER GFCI	9	10	* LAUNDRY LIGHTS	#12	3/4"	20	1	1.00	
0.30	1	20	3/4"	#12	* GFCI LAUNDRY RECEPTACLES	11	12	* BEDROOM #1 LIGHTS	#12	3/4"	20	1	1.00	
1.00	1	20	3/4"	#12	* BEDROOM #1 RECEPTACLES	13	14	* BEDROOM #2 LIGHTS	#12	3/4"	20	1	1.00	
1.00	1	20	3/4"	#12	* BEDROOM #2 RECEPTACLES	15	16	* GARAGE LIGHTS	#12	3/4"	20	1	1.00	
1.00	1	20	3/4"	#12	* GENERAL RECEPTACLES	17	18	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00	
0.30	1	20	3/4"	#12	* BATH GFCI	19	20	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00	
0.30	1	20	3/4"	#12	* BATH GFCI	21	22	* LANDSCAPE LIGHTS	#12	3/4"	20	1	1.00	
---	1	--	--	--	SPACE	23	24	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	25	26	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	27	28	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	29	30	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	31	32	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	33	34	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	35	36	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	37	38	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	39	40	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	41	42	SPACE	--	--	--	1	---	
18.90						TOTAL CONNECTED LOAD: 34.15 KVA TOTAL CONNECTED LOAD WITHOUT CU: 27.90 KVA TOTAL CONNECTED AMPS: 116 amps								15.25
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC														
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4). ** PROVIDE TIMER/CLOCK														
THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)														
ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.														

6825 SW 132nd St,
Pinecrest, FL 33156.

A circular professional engineer seal for Daniel F. Gutierrez. The seal contains the text: "DANIEL F. GUTIERREZ", "LICENSE", "No. 49086", "STATE OF FLORIDA", and "PROFESSIONAL ENGINEER". There are three stars around the inner circle. The seal is partially obscured by a signature.

LIC. #049086

[illegible]

SHEET TITLE

SHEET NUMBER

COPYRIGHT BALLI-TRAUTMAN ARCHITECTS,
LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES
FL 33143

SERVICE LOAD CALCULATIONS	
TOTAL HOUSE AREA: 9,171 SF	
DESCRIPTION	LOAD
AS PER NEC PART III (220.42/220.52)	
GENERAL LIGHTING (9,171 x 3) -----	27.50 KVA
SMALL APPLIANCE	4.50 KVA
SUB-TOTAL	32.00 KVA
FIRST 3KVA @ 100%	3.00 KVA
REMAINDER @ 35%	10.15 KVA
TOTAL:	13.15 KVA
OVEN(2)	12.00 KVA
DRYER	5.00 KVA
HOOD & IGNITION	1.00 KVA
REFRIGERATOR(3)	4.50 KVA
WASHER	1.50 KVA
DISHWASHER	1.20 KVA
MICROWAVE	1.20 KVA
GARBAGE DISPOSAL(2)	2.40 KVA
ELEVATOR	10.00 KVA
WINE COOLER(3)	3.60 KVA
BEVERAGE CENTER(2)	2.40 KVA
INSTANT WATER HEATER	11.00 KVA
ICE MAKER(2)	2.40 KVA
NEC 220.53 total fastened-in-place ----- total @ 75% -----	41.20 KVA 30.90 KVA
A/C UNITS (7)	54.20 KVA
POOL/IRRIGATION EQUIPMENT	3.00 KVA
CAR CHARGER(2)	20.00 KVA
NET COMPUTED LOAD	138.60 KVA
TOTAL AMPS. SERVICE LOAD (1ø, 240V)	578 AMPS.

TYPE: <u>SIEMENS ITE</u>					PANEL P 22 KAIC (SERIES RATED WITH MDP) NEMA 3R					MAIN BUS: <u>125 AMPS</u>				
SERVICE: <u>1Ø_3W</u>										NEUTRAL: <u>F/N</u>				
VOLTAGE: <u>120/240 V.</u>										MAIN: <u>M.L.O.</u>				
MOUNTING: <u>FLUSH</u>										LOCATION: <u>WALL</u>				
K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.	
1.50	1	20	1"	#10	* SPRINKLER PUMP (GFCI)	1	2	POOL LIGHT GFCI (BY OTHERS)	--	--	--	1	1.50	
1.00	1	20	3/4"	#12	**FLOOD LIGHTS (GFCI)	3	4	POOL MOTOR GFCI (BY OTHERS)	--	---	--	2	3.00	
1.50	1	20	3/4"	#12	* BBQ SMALL APPLIANCES	5	6		--	--	--	2	3.00	
1.20	1	20	3/4"	#12	* BBQ ICE MAKER GFCI	7	8	* BBQ GENERAL LIGHTS	#12	3/4"	20	1	1.00	
1.00	1	20	3/4"	#12	* BBQ RECEPTACLES	9	10	* BBQ GENERAL LIGHTS	#12	3/4"	20	1	1.00	
1.50	1	20	3/4"	#12	* PIZZA OVEN GFCI	11	12	* BBQ GENERAL LIGHTS	#12	3/4"	20	1	1.00	
---	1	--	--	--	SPACE	13	14	* GARBAGE DISPOSAL GFCI	#12	3/4"	20	1	1.20	
---	1	--	--	--	SPACE	15	16	* UC BEVERAGE CENTER GFCI	#12	3/4"	20	1	1.20	
---	1	--	--	--	SPACE	17	18	SPACE	--	--	--	1	---	
---	1	--	--	--	SPACE	19	20	SPACE	--	--	--	1	---	
7.70						TOTAL CONNECTED LOAD: 17.60 KVA TOTAL CONNECTED AMPS: 73 AMPS								9.90
ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC						THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)						ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.		
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4). ** PROVIDE TIMER/CLOCK														

TYPE:SIEMENS ITE

SERVICE:1Ø, 3W

VOLTAGE:120/240 V.

MOUNTING:FLUSH

PANEL E

22 KAIC (SERIES RATED WITH MDP)

NEMA 3R

MAIN BUS: 125 AMPS

NEUTRAL: F/N

MAIN: 125 amps

LOCATION: WALL

K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.		
5.50	2	40	3/4"	#8	AHU#7 W/5KW HEATER	1	2	CU#7	#8	3/4"	40	2	6.25		
						2	3								
						3	4								
0.30	1	20	3/4"	#12	* BATH GFCI	5	6	* POOL CABANA LIGHTS	#12	3/4"	20	1	1.00		
1.00	1	20	3/4"	#12	* POOL CABANA RECEPTACLES	7	8	* POOL CABANA LIGHTS	#12	3/4"	20	1	1.00		
1.20	1	20	3/4"	#12	* ICE MAKER GFCI	9	10	* HUMIDOR GFCI	#12	3/4"	20	1	1.20		
1.20	1	20	3/4"	#12	* WINE COOLER GFCI	11	12	* SMOKE EATER	#12	3/4"	20	1	1.50		
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	13	14	* UC BEVERAGE CENTER GFCI	#12	3/4"	20	1	1.20		
5.50	2	40	1"	#8	WATER HEATER (5.5kw) PROVIDE INTERLOCK	15	16	SPACE	--	--	--	1	---		
						17	18	SPACE	--	--	--	1	---		
5.50	2	40	1"	#8	WATER HEATER (5.5kw) PROVIDE INTERLOCK	19	20	SPACE	--	--	--	1	---		
						21	22	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	23	24	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	25	26	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	27	28	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	29	30	SPACE	--	--	--	1	---		
---	1	--	--	--	SPACE	31	32	SPACE	--	--	--	1	---		
10.20						TOTAL CONNECTED LOAD: 22.35 KVA TOTAL CONNECTED LOAD WITHOUT CU: 16.10 KVA TOTAL CONNECTED AMPS: 67 amps								12.15	
ROMEX CABLE WILL BE PERMITTED WHERE ALLOWED BY THE 2020NEC						THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)						ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.			
* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).															
** PROVIDE TIMER/CLOCK															

PANEL	AMPS	PHASE	VOLTAGE	MAIN/AIC	MOUNTING	LOCATION	NEMA TYPE	CATALOG NUMBER	
MDP	600	1	120/240	600A/42KAIC	SURFACE	WALL	3R	SIEMENS	
CIRCUIT NUMBER	BREAKER			SERVING	WIRE THWN CU	CONDUIT INCH	CONNECTED LOAD AMPS		
	POLE	AMPS RATING	TYPE				L1	L2	NEUTRAL
1	2	225	PLUG IN	PANEL A	3#4/0	2 1/2"	185	185	185
2	2	225	PLUG IN	PANEL B	3#4/0	2 1/2"	180	180	180
3	2	225	PLUG IN	PANEL C	3#4/0	2 1/2"	180	180	180
4	2	150	PLUG IN	PANEL D	3#1/0	2"	116	116	116
5	2	125	PLUG IN	PANEL P	3#1	1 1/2"	73	73	73
6	2	125	PLUG IN	PANEL E	3#1	1 1/2"	67	67	67
7	2	50	PLUG IN	CAR CHARGER	3#6	1"	50	50	50
8	2	50	PLUG IN	CAR CHARGER	3#6	1"	50	50	50
9	2	40	PLUG IN	ELEVATOR	3#1	1 1/2"	60	60	60
10	---	---	---	SPACE (FOR FUTURE)	---	---	---	---	---
11	---	---	---	SPACE (FOR FUTURE)	---	---	---	---	---
12	---	---	---	SPACE (FOR FUTURE)	---	---	---	---	---
SEE DEMAND LOAD CALCULATIONS									
THIS PANEL IS RATED TO 42KAIC SERIES RATED WITH PANELS A,B,C,P (SEE ELECTRICAL NOTE 4 OF PART 3 ON E-1)									

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

29111 KINSINGTON COURT
WESLEY CHAPEL
PH: (786) 499-4167
Email: danny@dfgengineers.com

DG CONSULTING ENGINEERS, LLC
DESIGN — INSPECTIONS

6825 SW 132nd St,
Pinecrest, FL 33156.

A circular professional engineer seal for Daniel F. Gutierrez. The outer ring contains the text "DANIEL F. GUTIERREZ, P.E." at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the word "LICENSE" at the top, the license number "No. 49086" in the center, and "STATE OF FLORIDA" at the bottom. The seal is stamped over a signature that appears to be "D. F. Gutierrez".

DANIEL F. GUTIERREZ, P.E.

ELECTRICAL ENGINEER

LIC. #049086

[illegible]

BALLI - TRAUTMAN
 ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER: HERRERA

CHECKED BY: GB

CHECKED BY: _____ CD _____

LEAD IN CHARGE _____

ISSUE DATE: 04/25/2025

SCALE: AS NOTED

SHEET TITLE

VOID
E-110

COPYRIGHT BALLI-TRAUTMAN ARCHITECTS,
LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES
FL 33143

TYPE:	SIMENS ITE				PANEL E		MAIN BUS: 125 AMPS
SERVICE:	1Ø, 3W						NEUTRAL: F/N
VOLTAGE:	120/240 V.				22 KAIC (SERIES RATED WITH MDP)		MAIN: 125 amps
MOUNTING:	FLUSH				NEMA 3R		LOCATION: WALL

K/VOLT AMP	POLE	TRIP	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP	POLE	K/VOLT AMPS.
5.50	2	40	3/4"	#8	AHU#7 W/5KW HEATER	1	2	CU#7	#8	3/4"	40	2	6.25
						3	4						
0.30	1	20	3/4"	#12	* BATH GFCI	5	6	* POOL CABANA LIGHTS	#12	3/4"	20	1	1.00
1.00	1	20	3/4"	#12	* POOL CABANA RECEPTACLES	7	8	* POOL CABANA LIGHTS	#12	3/4"	20	1	1.00
1.20	1	20	3/4"	#12	* ICE MAKER GFCI	9	10	* HUMIDOR GFCI	#12	3/4"	20	1	1.20
1.20	1	20	3/4"	#12	* WINE COOLER GFCI	11	12	* SMOKE EATER	#12	3/4"	20	1	1.50
1.00	1	20	3/4"	#12	* SERVICE RECEPTACLE	13	14	* UC BEVERAGE CENTER GFCI	#12	3/4"	20	1	1.20
5.50	2	40	1"	#8	WATER HEATER (5.5kw) PROVIDE INTERLOCK	15	16	SPACE	--	--	--	1	----
						17	18	SPACE	--	--	--	1	----
5.50	2	40	1"	#8	WATER HEATER (5.5kw) PROVIDE INTERLOCK	19	20	SPACE	--	--	--	1	----
						21	22	SPACE	--	--	--	1	----
---	1	--	--	--	SPACE	23	24	SPACE	--	--	--	1	----
---	1	--	--	--	SPACE	25	26	SPACE	--	--	--	1	----
---	1	--	--	--	SPACE	27	28	SPACE	--	--	--	1	----
---	1	--	--	--	SPACE	29	30	SPACE	--	--	--	1	----
---	1	--	--	--	SPACE	31	32	SPACE	--	--	--	1	----
10.20					TOTAL CONNECTED LOAD: 22.35 KVA TOTAL CONNECTED LOAD WITHOUT CU: 16.10 KVA TOTAL CONNECTED AMPS: 67 amps								12.15

ROMEX CABLE WILL BE PERMITTED WHERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

All PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).

** PROVIDE TIMER/CLOCK

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

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WESLEY CHAPEL
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Email: danny@dfgengineers.com

DG CONSULTING ENGINEERS, LLC
DESIGN — INSPECTIONS

MS 120 V THREE WAY TOGGLE SWITCH, SINGLE POLE. (+48" AFF UNLESS OTHERWISE NOTED.) VOLTAGE AS PER CIRCUIT DESIGNATION. "MS" MEANS MOTION SENSORS. PROVIDE NEUTRAL AS PER 2020 NEC 404.2(C).

SW 120 V THREE WAY TOGGLE SWITCH, SINGLE POLE. (+48" AFF UNLESS OTHERWISE NOTED.) VOLTAGE AS PER CIRCUIT DESIGNATION.

F GROUND TYPE DUPLEX RECEPTACLE, WALL. (+18" AFF UNLESS OTHERWISE NOTED.) LETTER "F" DESIGNATION MEANS FLOOR MOUNTED.

D GROUND TYPE DUPLEX RECEPTACLE, WALL. (+4" ABOVE COUNTER UNLESS OTHERWISE NOTED.) LETTER "D" DESIGNATION MEANS DEDICATED; LATTER "T" DESIGNATION MEANS ISOLATED GROUND.

P GROUND TYPE DUPLEX RECEPTACLE HALF SWITCHED, WALL. (+18" AFF UNLESS OTHERWISE NOTED.)

D GROUND TYPE SINGLE RECEPTACLE, WALL. (+4" ABOVE COUNTER UNLESS OTHERWISE NOTED.)

B GROUND TYPE SINGLE RECEPTACLE FLOOR MOUNTED.

D GROUND TYPE 30AMPS, 120/240V RECEPTACLE, WALL.

D JUNCTION BOX. INSTALL FAN TYPE JUNCTION BOX (FOR 50 LBS) IN ALL FANS.

TELEPHONE OUTLET, WALL. (+18" AFF)

V T.V. OUTLET CABLE

— CONDUIT CONCEALED IN OR UNDER FLOOR SLABS.

— CONDUIT CONCEALED ABOVE CEILING OR IN WALL

PANEL

DISCONNECT SWITCH.

D ENCLOSED CIRCUIT BREAKER

F GROUND CONNECTION.

ELECTRIC MOTOR CONNECTION.

D CEILING MOUNTED LIGHT FIXTURE (TO BE SELECTED)

D SMOKE/CARBON MONOXIDE DETECTOR COMBO

ARCH FLASH HAZARD WARNING.
THIS CONTRACTOR SHALL PROVIDE
PERMANENT SIGN AT METER,
DISCONNECTS, PANELS, ETC AS
PER NEC 110.16.

PROVIDE BOUNDING
CONDUCTOR OR JUMPER
BETWEEN METAL PARTS AS
PER 2020NEC EXHIBIT 110
250.2 & 250.4

KAIC NOTE:
THIS CONTRACTOR SHALL
PROCEED AS PER ELECTRICAL
NOTE 4 OF PART 3 ON E-5.

TYPE C LIGHT FIXTURES NOTE	LIGHT FIXTURES LOCATION NOTE:
THIS CONTRACTOR SHALL PROVIDE AND INSTALL C LIGHT FIXTURE IF REQUIRED AS PER 2020NEC 410.116(2), ASTM E 283, R402 4.1.1, C402.5.8	THE LOCATION OF ALL LIGHT FIXTURES ON THIS DRAWING ARE FOR PERMITTING ONLY AND DOES NOT REPRESENT EXACT LOCATION.
GROUNDING	THIS CONTRACTOR SHALL COORDINATE WITH THE HVAC CONTRACTOR AND THE ARCHITECT/OWNER FOR EXACT LOCATION PRIOR THE INSTALLATION OF ALL LIGHT FIXTURES.
THIS CONTRACTOR SHALL PROVIDE GROUNDING AS PER NEC 250. SEE ELECTRICAL NOTE 2 OF PART 3.	NEUTRAL WIRE AT SWITCHED
TAMPER RESISTANT NOTE:	PROVIDE NEUTRAL WIRE AT BATHROOMS, HALLWAYS, STAIRWAYS, OR ROOMS THAT ARE SUITABLE FOR HUMAN HABITATION OR OCCUPANCY AS PER 2020 NEC 404.2(C).
THIS CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER RESISTANT FOR ALL RECEPTACLES (EXISTING & NEW)AS PER NEC 406.12	OUTDOOR RECEPTACLES NOTE:
BATH EXHAUST FANS NOTE:	RECEPTACLES LOCATED OUTDOOR IN WET LOCATION SHALL BE PROVIDED WITH IN USE COVER LISTED EXTRA DUTY AS PER NEC 406.9(D)(1) & 406.2
ALL BATH EXHAUST FANS SHALL BE CONNECTED THRU THE LIGHT SWITCH WITH A SEPARATE SWITCH. THE I.B. AND FAN ATTACHMENTS SHALL BE RATED FOR CEILING FAN.	

ARC FAULT (AFCI) & GFCI CIRCUIT
BREAKERS NOTE
THIS CONTRACTOR SHALL PROVIDE AND
INSTALL ARC FAULT CIRCUIT BREAKERS
IN ALL NEW 15 & 20 AMPS CIRCUITS
AND/OR NEW/REPLACED LIGHTS AND
RECEPTACLES. PROVIDE GFCI AT ALL
BATHROOM RECEPTACLES. AFCI/GFCI
WITHIN 3 FT FROM SINK.

EQUIPMENT LABELING :

THIS CONTRACTOR MUST LABELED
WITH SHORT VALUE AND DATED
USING A PHENOLIC LABEL OR
EQUIVALENT TO SUSTAIN THE
SURROUNDING ENVIRONMENT

SMOKE/CARBON MONOXIDE DETECTORS
MAY NOT BE WITHIN 20FT OF A COOKING
APPLIANCE AND NOT CLOSER THAN 3FT
FROM THE DOOR TO BATHROOM,
WASHER/DRYER, KITCHEN AND A/C.

THE ACTIVATION OF ANY SMOKE
DETECTOR SHALL ACTIVATE THE OTHERS.

2ND FLOOR

PROVIDE PERMANENT SIGN (SHALL COMPLY WITH NEC 110.21(B)) TO READ: "SHOCK HAZARD EXIST IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED"

EMERGENCY GENERATOR UNDER SEPARATE PERMIT APPLICATION

GENERATOR GENERAC QT150 150 KW@60HZ 120/240V 1-PH NEMA 3R

GROUND FOR GENERATOR FRAME & GAS 1#4 CU

GROUND

3 SETS OF 3/4" THW CU IN 3" EMT EA.

3 SETS OF 3/4" THW CU IN 3" EMT EA.

EXIST. TWO (2) 5/8" x 10'-0" LONG GROUND RODS SPACED 6'-0" APART

UNDERGROUND TO FPL

PROPOSED BONDING SYSTEM

PROVIDE SURGE PROTECTION

METER C-7 (600amps) NEMA 3R 42KAIC

42KAIC *ATS SERVICE DISCONNECT NEMA 3R 600A M.C.B. (NON SEPARATELY DERIVED)

MDP 120/240V 600A NEMA 3R 42KAIC

3#4/0 THW CU IN 2 1/2" C.

3#1/0 + 1#4 GRND THWN (Cu) IN 2" PVC EMT

3#1/0 + 1#4 GRND THWN (Cu) IN 2" PVC EMT

3#6 + 1#8 GRND THWN (Cu) IN 1 1/2" EMT

PNL 'A' 225A 22KAIC NEMA 1

PNL 'B' 225A 22KAIC NEMA 1

PNL 'C' 225A 22KAIC NEMA 1

PNL 'P' 125A 22KAIC NEMA 3R

POOL EQUIP. 10KAIC NEMA 3R

PNL 'E' 125A 22KAIC NEMA 1

3#1 + 1#4 GRND THWN (Cu) IN 2" PVC SCH-40

3 SETS 3/4" & 1#1 (GND) THW CU IN 3" PVC SCH-40 EA TO 600amps ATS, 120/240V, 10, 42KAIC MAIN BREAKER

PROVIDE PERMANENT SIGN (SHALL COMPLY WITH NEC 110.21(B)) TO READ: "SHOCK HAZARD EXIST IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED"

EXIST. TWO (2) 5/8" x 10'-0" LONG GROUND RODS SPACED 6'-0" APART

POOL CABANA

EXTERIOR

GARAGE

EXTERIOR

MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERLIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS. MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT FOR THE POOL AND JACUZZI PER "NEC 680-42".

*SIZE AS PER NEC TABLE 310.15(B)(6)

THIS CONTRACTOR SHALL COORDINATE WITH FP&L THE CONNECTION FOR THIS SERVICE AND REVISE INTERRUPTING CAPACITY AVAILABLE PRIOR INSTALLATION OF ALL DISCONNECTING DEVICES, AND INCREASE THE INTERRUPTING CAPACITY IN PANELS AND DISCONNECTING DEVICES IF REQUIRED.

ALL PANELS MUST BE SERIES RATED WITH MDP. POOL PANEL SERIES RATED WITH PANEL P

CONNECTION TO COLD WATER PIPE MUST BE MADE WITHIN 5 FT OF POINT OF ENTRANCE OF PIPE

METAL UNDERGROUND COLD WATER PIPE, DIRECT CONTACT WITH THE EARTH FOR 10 FT (MIN)

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

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[illegible]

SHEET TITLE

SHEET NUMBER

E-111

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