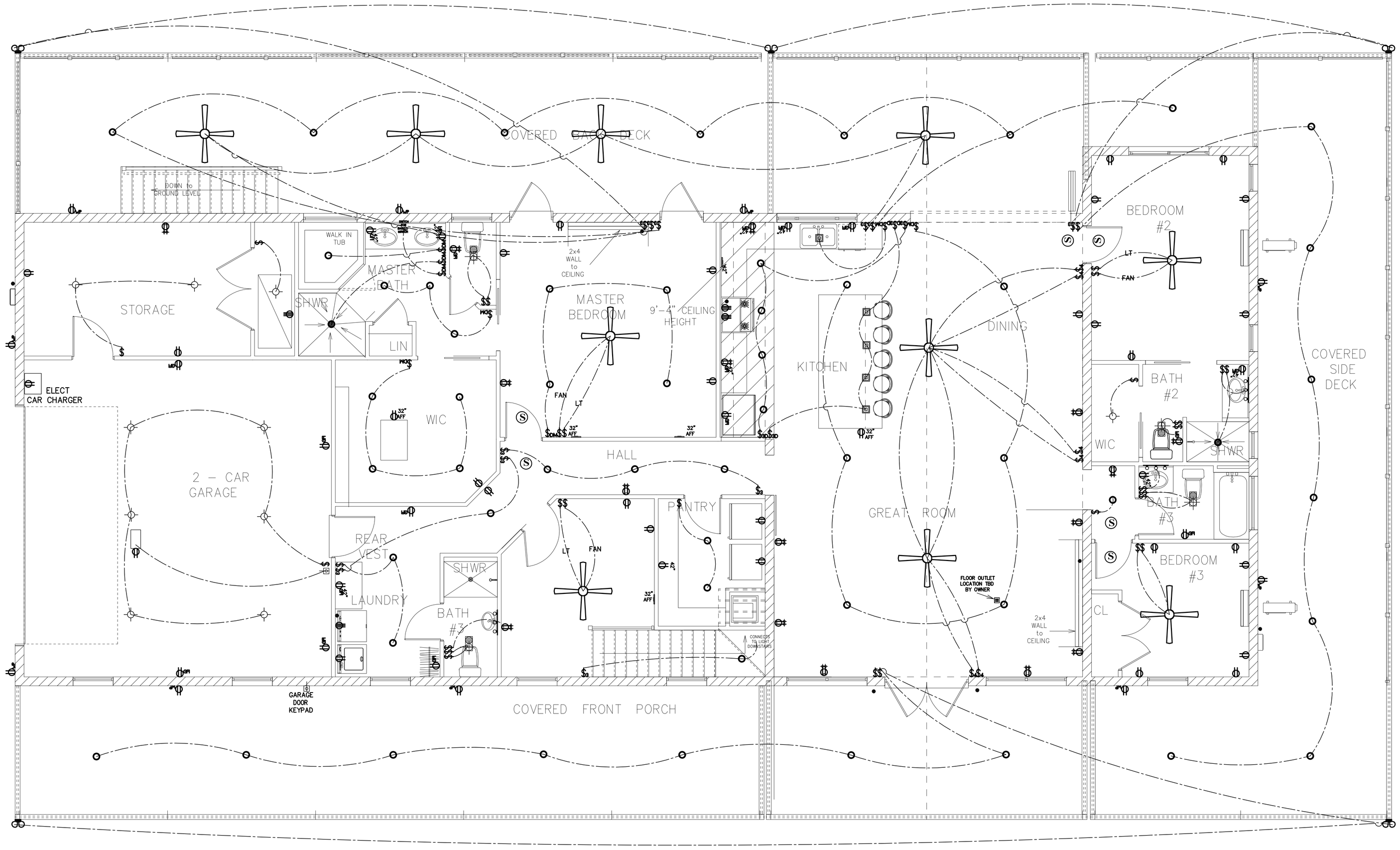

* MAIN *

* FLOOR ELECTRIC PLAN *

SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
ceiling fan globe 01	16	
pendant large	5	
pot light	73	
spotlight double	5	
Smoke Detector	6	
floor outlet double	1	
wall USB outlet	4	-
automatic garage dr opener	1	
dimmer switch	9	
dimmer switch 3-way	6	
Electric Car charger	1	
GFI WITH NIGHT LIGHT	12	
OUTLET WITH NIGHT LIGHT	12	
garage dr opener	2	
light	15	
outlet	39	
outlet 220v	6	
outlet gfi	21	
outlet wp	14	
switch	38	
switch 3 way	16	
switch 4 way	6	
vent light combo	5	
vanity bar light 02	4	

ELECTRICAL PLAN NOTES

INSTALLATION SHALL BE PER 2010 NAT'L. ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

PROVIDE 4 INSTALL CARBON MONOXIDE DETECTORS IN ALL BEDROOMS, @ 12" ABV. FIN. FL., INTERLOCKED TOGETHER.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OUNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ALL RECEPTICALS, NOT OTHERWISE DESIGNATED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS.

ALL RECEPTICALS IN KITCHEN AND BATHS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI).

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUND FAULT INTERRUPTER TYPE (WP/GFI).

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL OCT'S IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf		
4718.0 sf x 3w =	14157.0w	
Washer Circuit	1500.0w	
Dishwasher Circuit	1500.0w	
Sm. Appliance Circuits (3 @ 1500w)	4500.0w	
Sub-Total	21657.0w	
1st 3KW @ 100%		3000.0w
Bal. of KW @ 35%		6530.0w
Fixed Appliances:		
Refrigerator	1200.0w	
Clg. Fans (16 @ 240w)	3840.0w	
Irrigation Pump (future)	1200.0w	
Water Well Pump	1200.0w	
Pool Pump (future)	1200.0w	
EWH	4500.0w	
Spares (8 @ 400w)	3200.0w	
Sub-Total	16340.0w	
Load @ 75% D.F.		12225.0w
100% Demand Factor Loads:		
Dryer		5000.0w
Range		8000.0w
HVAC System Nr.1 (4.0T Heat Pump)		4800.0w
HVAC System Nr.2 (4.0T Heat Pump)		4800.0w
HVAC System Nr.3 (2.0T Heat Pump)		2800.0w
Total Demand Load:		47155.0w

FEEDER SIZE: 47155.0w / 240v = 196.5 amperes
USE: 3 #2/0 THW w/ 1 #1 Cu GND / 2½" C.

PANEL SCHEDULE

PANEL "L": 200A - MLO - 120/240V - 1φ - 4 WIRE
54 SLOT - FLUSH MOUNT

Ckt. Nr.	Location	Trip Poles	Wire Size	Load
1-10	Lighting/Recept.	15A/1P	14NM	1997W
11	Dishwasher	"	"	1500W
12-14	Sm. Kit. Appliances	20A/1P	12NM	4500W
15-16	Ceiling Fans	15A/1P	14NM	1200W
17/19	Refrigeration Pump	20A/1P	12NM	1200W
18		15A/1P	14NM	1200W
20/22	EWH	30A/2P	10NM	4500W
21/23	Range	50A/2P	6NM	8000W
24/26	Water Well	20A/2P	12NM	1200W
25/27	Dryer	30A/2P	10NM	5000W
28/30	HVAC CU Nr.1	50A/2P	6NM	4000W
29/31	HVAC AHU Nr.1	20A/2P	12NM	800W
32/34	HVAC CU Nr.2	50A/2P	6NM	4000W
33/35	HVAC AHU Nr.2	20A/2P	12NM	800W
36/38	HVAC CU Nr.3	30A/2P	10NM	2000W
37/39	HVAC AHU Nr.3	20A/2P	12NM	800W
40/42	Ful. Pool Pump	20A/2P	12NM	1200W
41	Spare		-	400W
43-45	Spare	-	-	2400W
46-54	Space	-	-	0W
TOTAL CONNECTED LOAD:				53297W

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REVISION:

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NEW CUSTOM RESIDENTIAL DESIGN for:
JOHN and DEBBIE STALLINGS
860 EVERGREEN DRIVE - LAKE CITY, FLORIDA
1st FLOOR ELECTRICAL PLAN

Celebrating 51 Years of Service
1972 - 2023
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER
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1758 NW Brown Rd.
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DATE: 10 MAR 2023

COMM: 2K2301

SHEET: A.5

5 OF 7

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O = AR0007005 OU = ARCHITECT
Date: 2023.09.20 11:58:10 -05'00'

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