

REVISION:

DRAWN:
DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA
Electrical Plan

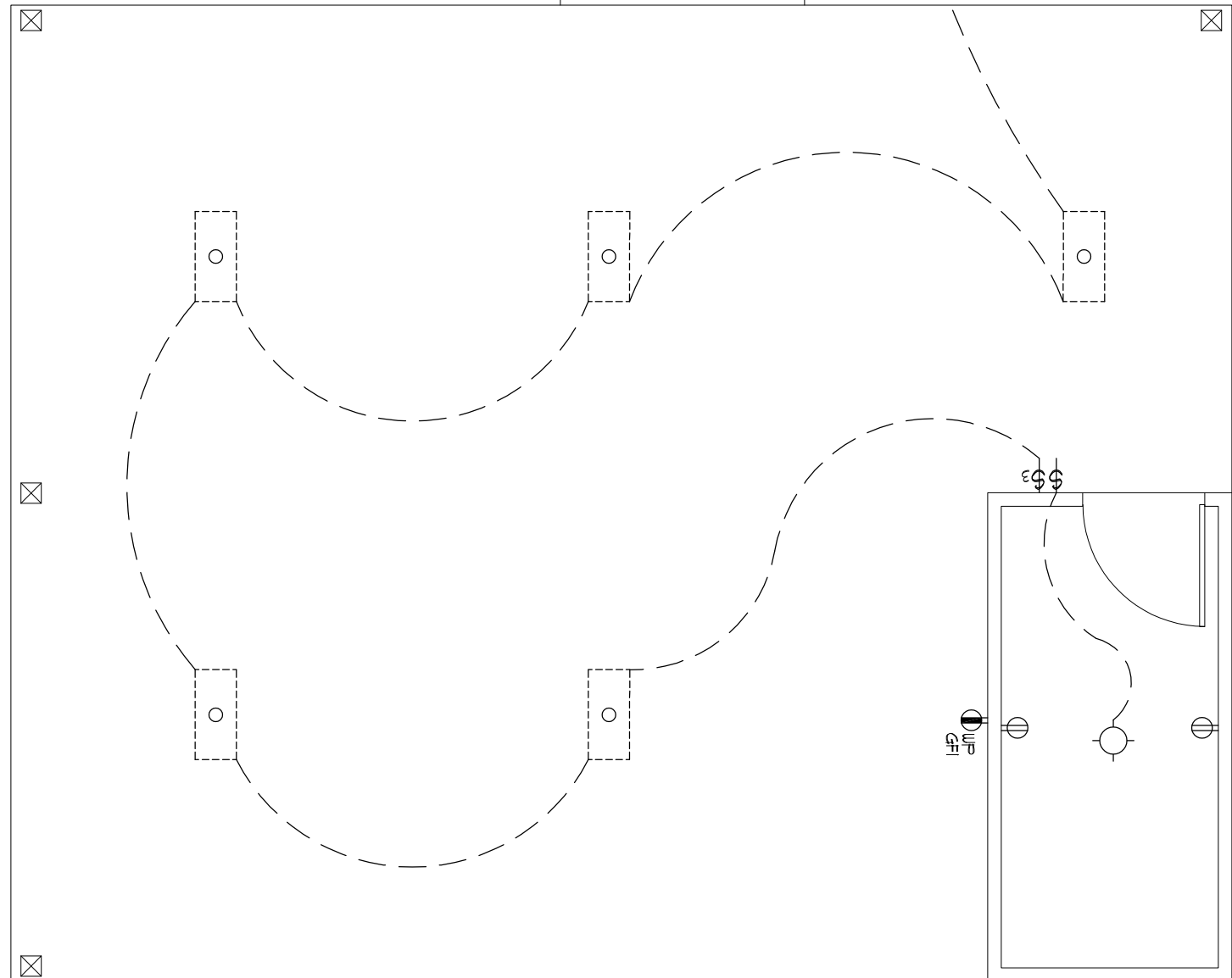
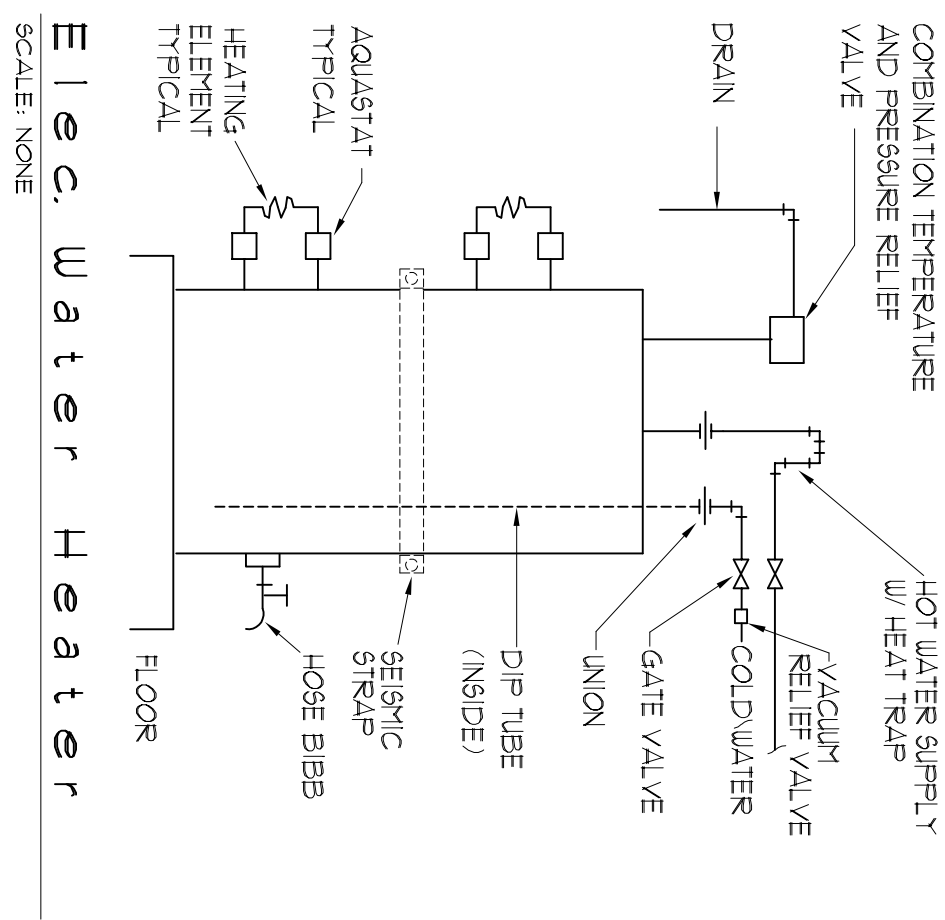
DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-752-4610

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DATE: 22JAN09
COMP: 13 OF 14

SHEET: A.13
13 OF 14

NOTE: EXTERIOR FLOODLIGHTS TO BE SPECIFIED AND LOCATED BY OWNER AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS

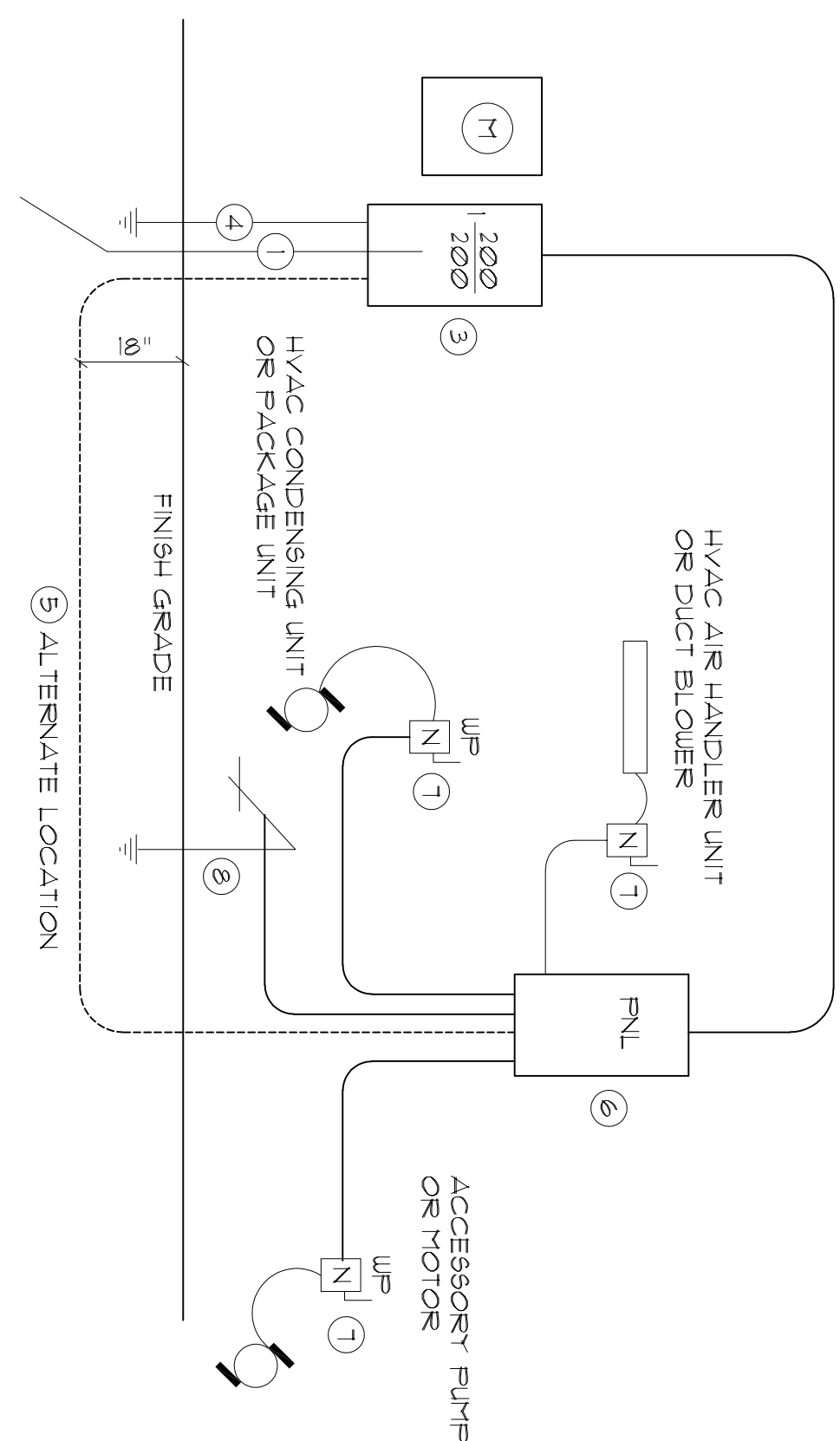


NOTE: SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM HOUSE PANEL W/BATTERY BACKUP

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

Electrical Symbols

- SPST WALL SWITCH
- DPDT WALL SWITCH (3-WAY)
- DUPLEX WALL RECEPTACLE
- DUPLEX WALL RECEPT, BELOW COUNTER
- 240V OUTLET
- ARC FAULT INTERRUPTER DUPLEX RECEPT.
- WEATHER PROOF GFI DUPLEX RECEPT.
- ARC FAULT INTERRUPTER DUPLEX RECEPT.
- DUPLEX WALL RECEPTACLE, 1/2 SWITCHED MOTOR
- ELECTRICAL PANEL
- EXHAUST FAN / LIGHT
- DEL. LAMP INC. FLOOD LIGHT
- 2 TUBE FLU. PRESYRATIC WRAP SURFACE FIXTURE
- INC. LIGHT FIXTURE
- SMOKE DETECTOR, 120V
- CHIME
- MOMENTARY PUSHBUTTON SWITCH, LIGHTED SWITCH/FIXTURE WIRING
- CONTROL WIRE - LOW VOLTAGE
- NON-FUSED DISC SWITCH
- TELEPHONE
- TELEVISION OUTLET
- HVAC THERMOSTAT, @ 60" AFF
- CEILING FAN W/ INC. LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE, WATERPROOF
- CLG. MTD. SWITCHED RECEPT. FOR CHRISTMAS LIGHTS



Panel Schedule

PANEL 1, 200A - MLO - 120/240V - 1" - 4 WIRE

CIR. NO.	LOCATION	TRIP	POLES	WIRE SIZE	LOAD
1-9	LIGHTING/RECEPT.	15A/1P	1N/1P	14N/1	136/250
10-12	DISHWASHER	15A/1P	1N/1P	14N/1	1500/0
13-14	KITCHEN APPLIANCES	20A/1P	1N/1P	14N/1	4500/0
15-17	CENTRAL AIR	15A/1P	1N/1P	14N/1	1200/0
18	FILTER REGULATION PUMP	20A/1P	1N/1P	14N/1	1200/0
19	WATER PUMP	20A/1P	1N/1P	14N/1	1500/0
20-21	WASHER	20A/1P	1N/1P	14N/1	1500/0
22	WASHER	20A/1P	1N/1P	14N/1	1500/0
23-24	RANGE	30A/2P	1N/1P	14N/1	4500/0
25	EQUIP. 50 GAL.	30A/2P	1N/1P	14N/1	8000/0
26	WATER WELLS	30A/2P	1N/1P	14N/1	1200/0
27	DRYER	30A/2P	1N/1P	14N/1	5000/0
28	HVAC CU	30A/2P	1N/1P	14N/1	6-4000/0
29-30	HVAC AHU	30A/2P	1N/1P	14N/1	8000/0
31	FREEZER	15A/1P	1N/1P	14N/1	1200/0
32	FREEZER	15A/1P	1N/1P	14N/1	1200/0
33-40	SPARES	30A/2P	1N/1P	14N/1	3200/0

TOTAL CONNECTED LOAD: 56423W

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

TYPICAL PANEL SCHEDULE:

ELECTRICIAN TO PROVIDE A FINAL PANEL SCHEDULE BASED ON THE AS-BUILT CONDITIONS & CONNECTED DEVICES.

TYPICAL LOAD COMPUTATIONS:

ELECTRICIAN TO CALCULATE ACTUAL LOAD FROM AS-BUILT CONDITIONS & CONNECTED DEVICES.

Electrical PLAN

Electrical Comp.

General Lighting/Receptacles @ 3w/sf

2621 sf x 3w = 7863W

Washer Circuit 1500W

Dishwasher Circuit 1500W

5m. Appliance Circuits (3 @ 1500W) 4500W

Sub-Total 15363W

18% 3CU @ 100% 3000W

Ball of CU @ 35% 4543W

Fixed Appliances:

Refrigerator 1200W

Freezer 1200W

Cig. Fans (3 @ 200W) 600W

Irrigation Pump (future) 1000W

Washer (future) 1500W

Washer Well Pump 4500W

EQUIP 2400W

Spare (6 @ 400W) 2400W

Sub-Total 13500W

Load @ 75% D.F. 10125W

100% Demand Factor Loads:

Dryer 5000W

Range 6000W

HVAC System Air Handler 6000W

Total Demand Load: 37166W

FEEDER SIZE: 37166W / 240V = 15700 amperes

USE: 3"X1/0 THW w/ 1" CU GND / 2 1/2" C.

Electrical Design Data

Digitally signed by: N. P. GEISLER
DN: cn = N. P. GEISLER, c = US
O = AR0007005 OU = ARCHITECT
Date: 2020.06.23 11:24:32 -0500

AR0007005