

DESIGN CODE NEC 2011

ALL KITCHEN COUNTER RECEPTACLES TO HAVE GFCI PROTECTION.

ALL DWELLING UNIT RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT.

ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN'S, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS AND SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED.

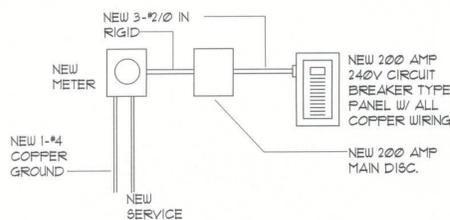
PROVIDE SMOKE/CO2 ALARMS IN EACH BEDROOM AND ADJACENT HALLWAY. IF SUCH ALARMS ARE NOT EXISTING, THEN INSTALL THEM AS SHOWN ON THIS FLOOR PLAN.

NOT LESS THAN 90% OF THE LAMPS IN PERMANENTLY INSTALLED LUMINAIRE 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 LEGEND

	INCANDESCANT LIGHT		SWITCH.
	SCONCE		TELEVISION OUTLET
	RECESSED LIGHT		PHONE OUTLET
	VAPOR PROOF RECESSED LIGHT		POWER BUTTON
	SMOKE/CARBON MONOXIDE DETECTOR		CEILING FAN/LITE OUTLET
	DUPLEX RECEPTACLE		JUNCTION BOX
	HIDDEN DUPLEX RECEPTACLE		EXHAUST FAN - vent to outside 50 cfm
	SWITCHED DUPLEX RECEPTACLE		FLOOR OUTLET
	WATER PROOF RECEPTACLE W/ GROUND FAULT INDICATOR		FLUORESCENT LIGHTING
	RECEPTACLE W/ GROUND FAULT INDICATOR		FLOOD
	230V. RECEPTACLE.		

SMOKE/CARBON MONOXIDE DETECTOR TO BE INTERCONNECTED, ON SEPARATE CIRCUITS, AND WITH BATTERY BACKUP, PROVIDE SMOKE/CO ALARMS IN EACH LOCATION REQUIRED PER CODE.
SMOKE ALARMS MUST BE INSTALLED AT LEAST 3 FEET FROM BATHROOM DOOR, 3 FEET FROM CEILING FANS, AND 3 FEET FROM ANY MECHANICAL DUCT. PROVIDE CARBON MONOXIDE ALARMS WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES. FBC RE R315.1, FBC RE R314.3(4), NFPA 12.2.9.3.4



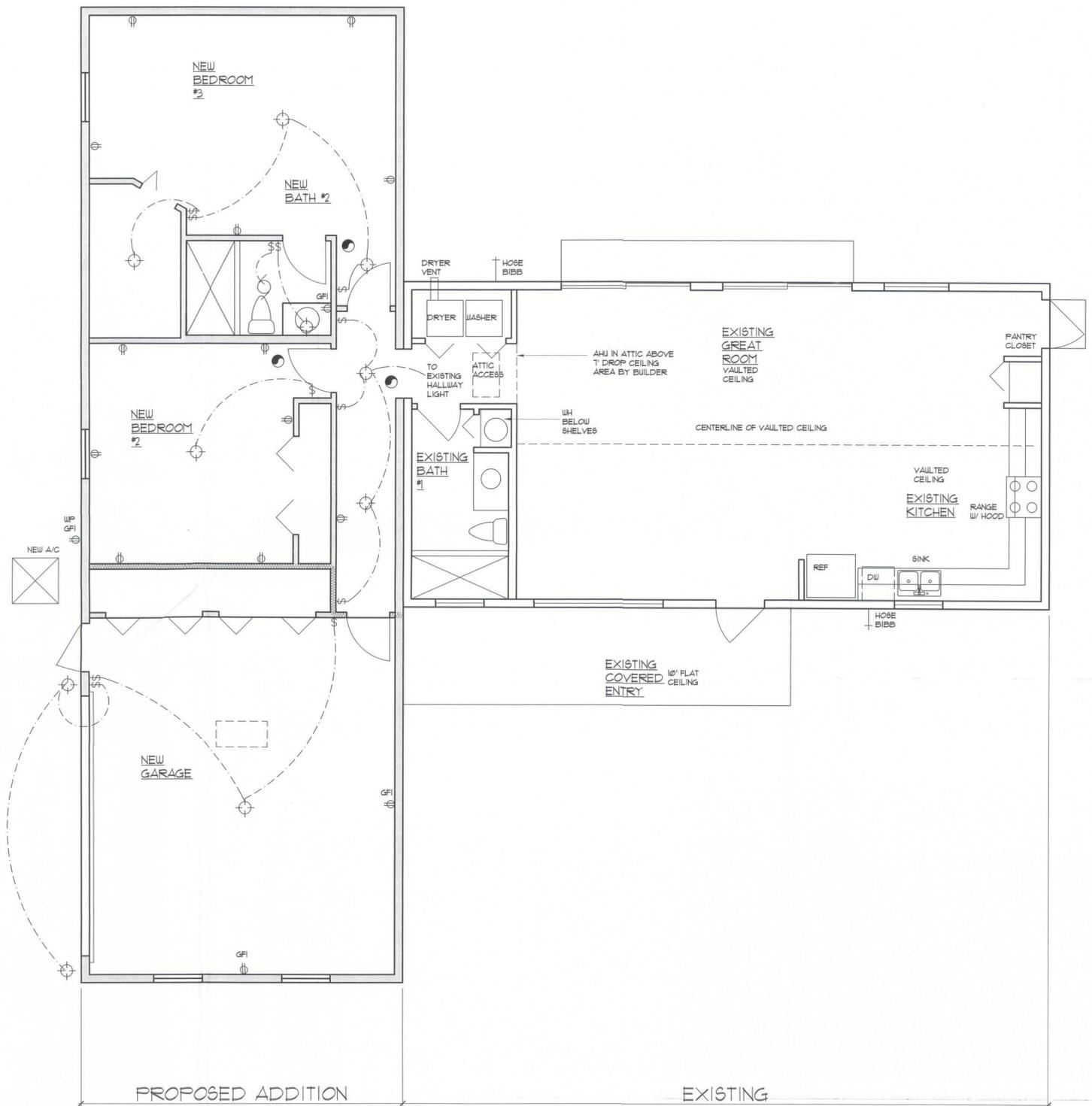
EXISTING PANEL SCHEDULE											
CKT	DESCRIPTION	POLE/BKR	WIRE	KVA	100%	100%	KVA	WIRE	POLE/BKR	DESCRIPTION	CKT
1	A/C	2P 30A	#10 CU			10K			2P 60A	AHU (HEAT)	2
3											4
5	WATER HEATER	2P 30A	#10 CU	4500			5000	#10 CU	2P 30A	DRYER	6
7											8
9	RANGE W/ HOOD	2P 50A	#8 CU	8000			1500	#12 CU	1P 20A	WASHER	10
11							1500	#12 CU	1P 20A	GFI	12
13	APPLIANCE	1P 20A	#12 CU	1500			1500	#14 CU	1P 15A	BEDROOM	14
15	DISHWASHER	1P 20A	#12 CU	1500			1500	#12 CU	1P 20A	BATHROOM	16
17	REFRIGERATOR	1P 20A	#12 CU	1500			1500	#12 CU	1P 20A	DISPOSAL	18
19	LIVING ROOM	1P 15A	#14 CU	1500			1500	#12 CU	1P 20A	MICROWAVE	20
21	EXTERIOR LIGHTING	1P 15A	#14 CU	1500							22
23											24
25											26
27											28
29											30
SUBTOTAL				20000		10K	23425	SUBTOTAL			

1ST 10K @ 100%	43425	10000
@ 40%	33425	13310
HEAT AT 100%	10K	10000
TOTAL WATTS		33310
WATTS / 240V = AMPS		139 AMPS
GENERAL LIGHTING: 3x	SQUARE FT	GL KVA
	800	2400

NEW DEMAND LOAD					
CKT	DESCRIPTION	POLE/BKR	WIRE	KVA	100%
2	A/C	2P 30A	#10 CU		
2	AHU	2P 60A	#6 CU		10000
1	GFI	1P 20A	#12 CU	1500	
1	BATH GFI	1P 20A	#12 CU	1500	
2	EXTERIOR LIGHTING	1P 15A	#14 CU	1500	
2	BEDROOM	1P 15A	#14 CU	3000	
1	BEDROOM	1P 15A	#14 CU	1500	
2	GARAGE	1P 15A	#14 CU	3000	
SUBTOTAL					12000

1ST 10K @ 100%	55425	10000
@ 40%	45425	18110
HEAT AT 65%	20K	13000
TOTAL WATTS		41110
WATTS / 240V = AMPS		171 AMPS
GENERAL LIGHTING: 3x	SQUARE FT	GL KVA
	800 + 700	1500 X 3 = 4500

EXISTING HOUSE AREA TABULATIONS	
A/C AREA	800 SF
COVERED PORCH	144 SF
TOTAL UNDER ROOF	944 SF
PROPOSED ADDITION AREA	
ADDITION A/C AREA	100 SF
GARAGE	500 SF
TOTAL ADDITION	1200 SF
TOTAL AREAS	
A/C AREA	1500 SF
GARAGE	500 SF
COVERED PORCH	144 SF
TOTAL UNDER ROOF	2144 SF



ELECTRICAL PLAN
1/4"=1'-0"

Revisions No. Date:

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WINDLOAD DESIGN BY DRISCOLL ENGINEERING
GAINESVILLE, FLORIDA

AN ADDITION TO AN EXISTING RESIDING FOR
BILL & PAT KIMBLE
319 SW CHIPPEWA GLN
FT. WHITE, FLORIDA

Drawn: CC
Checked: CC
Date: 04/06/23

Sheet No.
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