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ELECTRICAL PLAN NOTES

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

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

ALL RECEPTACLES IN BEDROOMS SHALL BE ON ARC FAULT INTERRUPTER CIRCUITS (AFCI), PER NEC 210-12.

ALL RECEPTACLES IN BATHROOMS, KITCHENS AND EXTERIOR LOCATIONS SHALL BE ON GROUND FAULT INTERRUPTER CIRCUITS (GFI).

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

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

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 CONTR. SHALL PREPARE "AS-BUILT" SHOP DUGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDING TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT N., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER D/A. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DUGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

AREA TABULATION

1st FLOOR HEATED	3391
2nd FLOOR HEATED	1203
TOTAL HEATED	4594
ENTRY	54
COVERED PATIO	116
LANAI	1034
GARAGE	161
UNDER ROOF TOTALS	5616
FIRST FLOOR	6825
TOTAL ENCLOSED	5561
TOTAL UNENCLOSED	1264

ELECTRICAL LEGEND:

110V DUPLEX RCPT.	TWO WAY SWITCH
110V 1 SIDE SWITCHED	THREE WAY SWITCH
220V OUTLET	FOUR WAY SWITCH
NUMBER INDIC. HGT. AFF.	SWITCH W/ DIMMER
DEDICATED OUTLET	SWITCH IN DOOR JAMB
GARAGE DOOR OPENER	CEILING MTD LIGHT
WEATHER PROOF OUTLET	RECESSED LIGHT
110V OUTLET ON GROUND FAULT CIRCUIT	RECESSED EYEBALL
110V-ARC FAULT CIRCUIT INTERRUPTER	RECESSED MOISTURE PROOF LIGHT
110 FLOOR OUTLET	WALL SCONCE
TELEPHONE FLOOR OUTLET	FLOOD LIGHT
TELEPHONE OUTLET	EXHAUST FAN-LIGHT
MODEM LINE	EXHAUST FAN
CABLE TV OUTLET	CEILING FAN PREWIRE
SMOKE DETECTOR	TRACK LIGHTING
INTERCOM STATION	
INTERCOM PANEL	
SPEAKER	CEILING FAN
JUNCTION BOX	CEILING FAN-LIGHT
PUSH BUTTON	TUBE LIGHT
THERMOSTAT	
PANEL	
KEYPAD	24 x 48 FLUORESCENT BOX FIXTURE

ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf		
5561 sf x 3w/sf	16683.0w	
Washer Circuit	1500.0w	
Dishwasher Circuit (2 @ 1500w)	3000.0w	
Sm. Appliance Circuits (3 @ 1500w)	4500.0w	
Sub-Total	25683.0w	
1st 3KW @ 100%		3000.0w
Bal. of KW @ 35%		7933.1w
Fixed Appliances:		
Refrigerator 2 @ 1440w	2880.0w	
Cig. Fans (10 @ 360w)	3600.0w	
Trash Compactor	1200.0w	
U/C Refrigerator	1200.0w	
Ice Maker	1200.0w	
Pool Pump	1200.0w	
EUH (2 @ 4500w)	9000.0w	
Gar. Door Opener (2 @ 1200w)	2400.0w	
Spare (6 @ 400w)	2400.0w	
Sub-Total	25880.0w	
Load @ 75% D.F.		19410.0w
100% Demand Factor Loads:		
Dryer	5000.0w	
Washer/Dryer Combo	7500.0w	
Range	11000.0w	
Wall Oven	6000.0w	
HVAC System (5.0T Heat Pump)	6000.0w	
HVAC System (3.0T Heat Pump)	3600.0w	
Total Demand Load:		63449.1w
FEEDER SIZE: 63449.1w / 240V = 264.4 amperes		
USE: 3 #250MCM-THW w/ 1 #2 Cu GND / 2 1/2" C.		

PANEL SCHEDULE

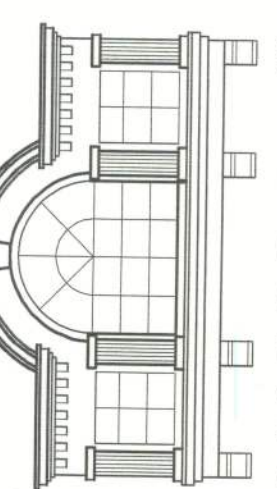
PANEL "L": 400A - MLO - 120/240V - 1φ - 4 WIRE
40 SLOT - FLUSH MOUNT

Cir. Nr.	Location	Trip Poles	Wire Size	Load
1-10	Lighting/Recept.	15A/1P	14NM	13056W
11	Dishwasher	"	"	1500W
12-14	Sm. Kit. Appliances	20A/1P	12NM	4500W
15-16	Ceiling Fans	15A/1P	14NM	2520W
17-19	EUH	20A/1P	12NM	4500W
18	Refrigerator	15A/1P	14NM	1440W
20	U/C REF	"	"	1200W
21-23	EUH	30A/2P	10NM	4500W
24	Range	50A/2P	6NM	8000W
25-27	Water Wall	20A/2P	12NM	1200W
26-28	Dryer	30A/2P	10NM	5000W
29	Trash Compactor	15A/1P	14NM	1200W
30	Ice Maker	15A/1P	14NM	1200W
31-33	Pool Pump	20A/2P	14NM	1200W
32	Refrigerator 2	15A/1P	14NM	1440W
34-36	Oven	50A/2P	6NM	8000W
35-37	PNL 2nd Section	100A/2P	3USE	25400W
38-40	Spare	"	"	1200W
TOTAL CONNECTED LOAD:				81063W

FIRST FLOOR ELECTRICAL PLAN

NOTICE
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HUBER RESIDENCE
THE NW 1/4 OF NE 1/4, SECTION 1
T 5 - S, R 16 - E
COLUMBIA COUNTY, FLORIDA

DRAWN BY: BV, RFF, A.D.
CHECKED BY: JPB
DATE: 7/13/05
SCALE: 1/4" = 1'-0"
JOB NUMBER: 4800
REVISED:
DUG NO:
11 13

11/13/05
21 OCT 2005