



30 August, 2023

Peppertree 34 Building

### **Addendum 1**

The following addendum supersedes previous information and does hereby become part of the contract documents:

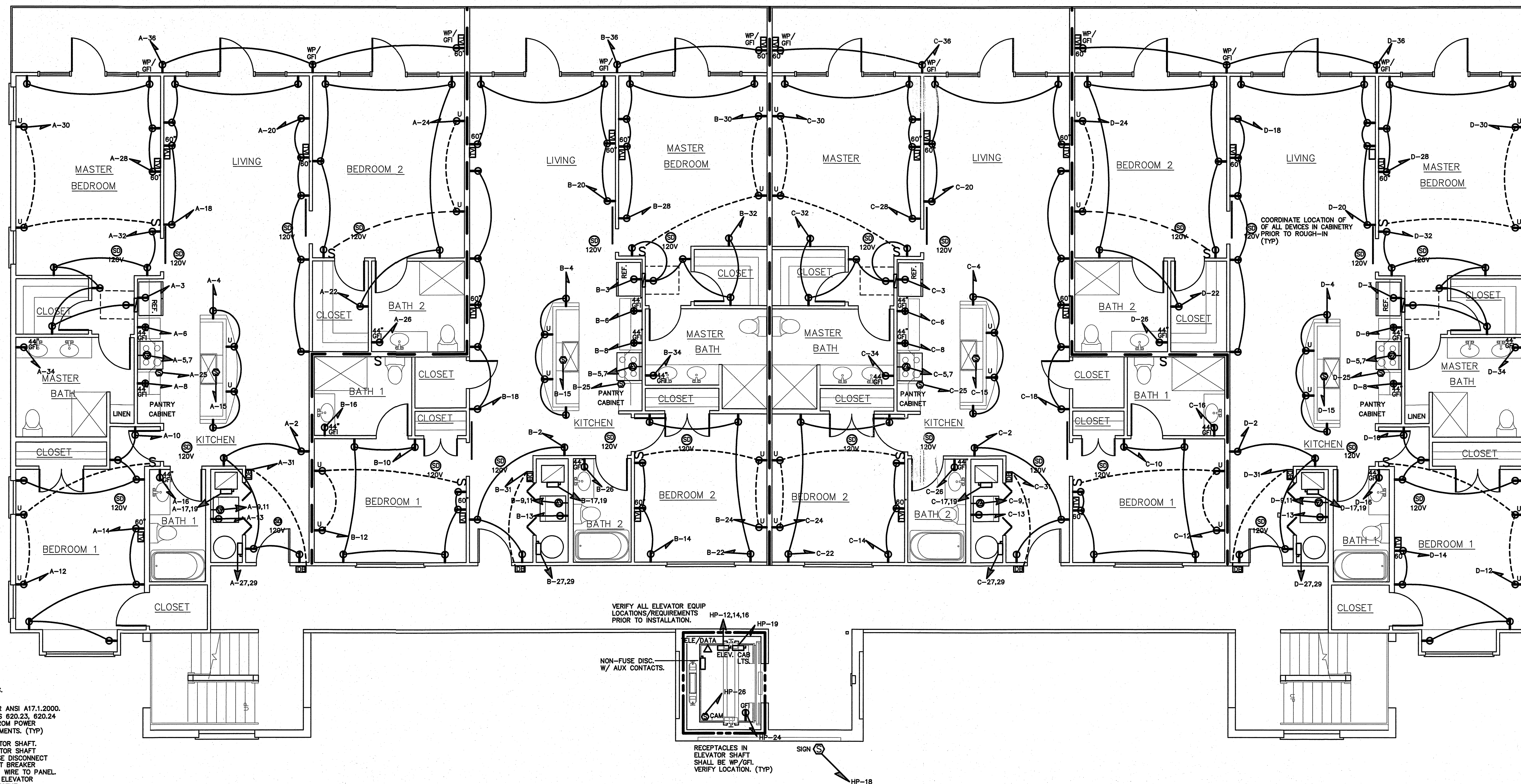
- See attached sheets E-3.3 and E-4 which were missing from the original set.
- Clarification: Light fixture schedule, 4' LED fixture – the quantities are not listed in the schedule. That is the watts per fixture. The Contractor is responsible for determining the quantity of fixtures as shown on the lighting plans.
- Clarification: Lighting plans for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> floors light fixture schedule – the quantities are not listed in the schedule. That is the watts per fixture, the Contractor is responsible for determining the quantity of fixtures as shown on the lighting plans.
- Clarification: Light Fixture (N.L.) – N.L. indicates a night light. See legend on sheet E-1.
- Clarification: All subcontractors shall review the full set of drawings for construction types and details. Plans are available at [www.coastalarchitecture.net](http://www.coastalarchitecture.net) under the Construction Plans tab.
- Clarification: NM cable may be used within the residential areas as allowed per code. Conduits should be used for any circuits outside the residential areas, such as the exterior heat pump units, etc.
- Clarification: Schedule 80 PVC conduit is allowed in the parking deck and exterior equipment areas.
- Clarification: Light Fixture A – Delete the type “A” fixture on the individual unit decks. The type “S1” fixture provides adequate light. For the common walkways for levels 1 through 3, provide (8) S1 fixtures evenly spaced and wire to the house panel through a photocell.
- Clarification: The electrical contractor will supply and install all ceiling fans. All colors will be selected during the shop drawing review.
- Clarification: Substitution of equal lighting products shall be submitted for review.

**End of Addendum 1**

Lee D. Dixon, Jr., AIA  
Architect/Owner  
252-241-1868

P.O. Box 363  
Morehead City, NC 28557  
[Lee@coastalarchitecture.net](mailto:Lee@coastalarchitecture.net)

Peppertree 34 E3.3 WALL LEGEND	
	1/2-HOUR FIRE BARRIER
	2-HOUR FIRE BARRIER



PER NEC 620.23, NFPA 70:

ELEVATOR NOTES:  
LIGHT, LIGHT SWITCH AND GFCI RECEPTACLE IN ELEVATOR PIT TO BE PROVIDED BY THE EC. WIRE LIGHTS ON LINE SIDE OF RECEPTACLE.

MINIMUM LIGHTING IN THE PIT TO BE 10fc PER ANSI A17.1.2000. PIT LIGHTING IS SUBJECT TO NEC CODE RULES 620.23, 620.24 FOR SEPARATE LIGHTING BRANCH CIRCUITS FROM POWER BRANCH CIRCUITS, AND LOCAL CODE REQUIREMENTS. (TYP)

PROVIDE GFCI RECEPTACLE AT TOP OF ELEVATOR SHAFT. VERIFY LOCATION. WIRE TO ADDITIONAL ELEVATOR SHAFT POWER AND LIGHTING. PROVIDE 208V, 3 PHASE DISCONNECT FOR ELEVATOR LIFT MOTOR ALONG W/ CIRCUIT BREAKER ENCLOSURE FOR ELEV LIGHTS AND CONTROLS. WIRE TO PANEL. SHUNT TRIP CIRCUIT BREAKER REQUIRED FOR ELEVATOR MAIN LINE POWER WHEN SPRINKLERS ARE PRESENT.

ELEVATOR ELECTRICAL EQUIPMENT AND WIRING MUST COMPLY WITH SECTION 620 OF NEC ANSI NFPA 70. ALL WORK MUST MEET NC DEPARTMENT OF LABOR GUIDELINES FOR TRACTION ELEVATORS. SEE OTHER ELECTRICAL SHEETS FOR ADDITIONAL WORK.

PROVIDE TELE/DATA CONDUIT FOR EACH ELEVATOR. WIRE BACK TO MAIN TELEPHONE PANEL.

PROVIDE A 120V, 1 PHASE MOTOR-CIRCUIT SWITCH OR CIRCUIT BREAKER THAT IS LOCKABLE OPEN IN ACCORDANCE W/ NFPA 70/CEC FOR VISUAL COMM DEVICE (CAMERA) IN ELEVATOR.

A DRAIN OR SUMP PUMP SHALL BE PROVIDED IF REQUIRED. THE SUMP PUMP/DRAIN SHALL HAVE THE CAPACITY TO REMOVE A MINIMUM OF 3,000 GAL/1/4 PER ELEVATOR. PROVIDE DEDICATED 120V, 1 PHASE RECEPTACLE IN PIT.

VERIFY ALL ELEVATOR EQUIP LOCATIONS/REQUIREMENTS PRIOR TO INSTALLATION.

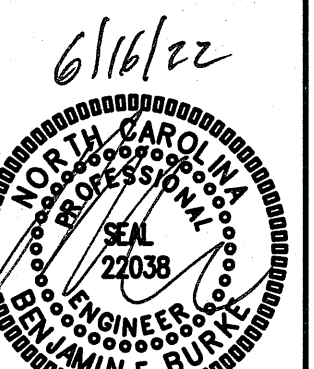
NON-FUSE DISC. W/ AUX CONTACTS.

RECEPTACLES IN ELEVATOR SHAFT SHALL BE WP/GFI. VERIFY LOCATION. (TYP)

**3RD FLOOR POWER PLAN**  
SCALE: 3/16" = 1'-0"

VERIFY HEIGHT/LOCATION OF ALL EQUIP, SWITCHES, AND DEVICES PRIOR TO INSTALLATION.

PROVIDE (AF) ARC FAULT PROTECTION FOR ALL 120V RECEPTACLE AND LIGHTING CIRCUITS, EXCEPT FOR (GFI) PROTECTED CIRCUITS IN THE KITCHEN. (TYP)



THIRD FLOOR POWER PLAN

**21014**

ISSUED: 5-17-22

DWG BY: JQ

CKD BY: BEB

REVISIONS

SHEET NO.  
**E-3.3**



NEW PANEL - 'HP'		MAKE: CUTLER HAMMER			RATING: 208/120V 3 PHASE 4 WIRE			MLO MAIN CIRCUIT BREAKER			
LOAD SERVICE		TYPE: PBL1a			MOUNTING: FLUSH			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
OR APPROVED EQUAL		MINIMUM AIC: VERIFY			MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE	NEUTRAL	CTK NO	WATTS PER PHASE	NEUTRAL	CTK NO	WATTS PER PHASE	NEUTRAL	CTK BRKR	LOAD SERVICE
LTS- AUTOPARK LOCKERS	20A	1280		1	2	720		2	720	20A	REC- AUTOPARK
LTS- AUTOPARK LOCKERS	20A	1280		3	4	720		4	720	20A	REC- AUTOPARK
LTS- AUTOPARK PARKING	20A	1440		5	6	720		6	720	20A	REC- AUTOPARK
LTS- AUTOPARK HALLWAY	20A	1360		7	8	720		8	720	20A	REC- AUTOPARK
LTS- WALKWAY/FACADE	20A	1050		9	10	540		10	540	20A	REC- STORAGE/ SPRINKLER
DHP-1	25A	2122		11	12	5376		12	5376	60A	ELEVATOR
EH-1	20A	1000		15	16	5376		16	5376	20A	(VERIFY ALL REQUIREMENTS PRIOR TO INSTALLATION)
ELEV. CAB LTS	30A	600		19	20	1200		20	1200	20A	SIGN ON FRONT
ELEV. SHAFT LTS (BOTTOM)	20A	100		21	22	180		22	180	20A	REC- PARKING
ELEV. SHAFT LTS (TOP)	20A	100		23	24	180		24	180	20A	ELEV. SHAFT REC (BOTTOM) GFI
ELEV. AP	20A	200		25	26	200		26	200	20A	ELEV. CAMERA
FACP	20A	200		27	28	500		28	500	20A	SUMP PUMP
SPARE	20A			29	30			30		20A	SPARE
SPARE	20A			31	32			32		20A	SPARE
SPARE				33	34			34			SPARE
SPARE				35	36			36			SPARE
SPARE				37	38			38			SPARE
SPARE				39	40			40			SPARE
SPARE				41	42			42			SPARE
NOTES	SUB-TOTALS 'B'		5582	3630	4692	200A BUS LUGS 5292 3630 4692		SUB-TOTALS 'A'		TOTAL CONNECTED LOAD	
						200A FEED 12998 10946 12138					
						VERIFY SIZE 108A 91A 101A					

EQUIPMENT WIRING SCHEDULE					
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
AHU-1	48.5A	50A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-1	18.1A	30A	240V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT
AHU-2	48.5A	50A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-2	22.1A	35A	240V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT
DHP-1	22.1A	25A	208V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT
RANGE	(8KW)	40A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT
DRYER	(5KW)	30A	240V	1	3-#10, 1-#10 GND IN 1/2" CONDUIT
EWI	(4.5KW)	30A	240V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT
EH-1	(2KW)	20A	208V	1	3-#12, 1-#12 GND IN 1/2" CONDUIT
ELEVATOR	56A	60A	208V	3	3-#6, 1-#10 GND IN 1" CONDUIT

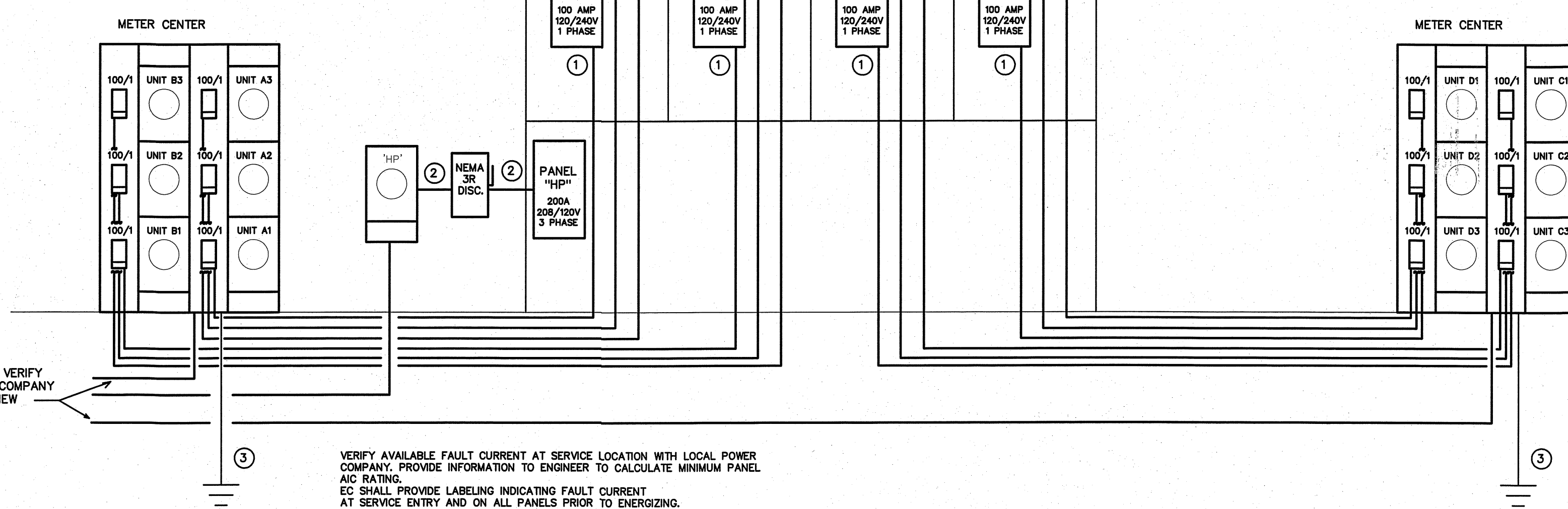
**RISER WIRING SCHEDULE**

1 100A: 3-#3, 1-#8 CU GND, IN 1 1/4" CONDUIT

2 200A: 4-#3/0, 1-#8 CU GND, IN 2 1/2" CONDUIT

3 #3/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #8 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

NOTE: UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT. SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.



NEW UNDERGROUND SERVICE. VERIFY RESPONSIBILITY WITH POWER COMPANY PRIOR TO BID. COORDINATE NEW LOAD REQUIREMENTS WITH LOCAL POWER UTILITY.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

NEW PANEL - (B&C) (TYP.)		MAKE: CUTLER HAMMER			RATING: 120/240 1 PHASE 3 WIRE			MLO MAIN CIRCUIT BREAKER			
LOAD SERVICE		TYPE: PBL1a			MOUNTING: FLUSH			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
OR APPROVED EQUAL		MINIMUM AIC: VERIFY			MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE	NEUTRAL	CTK NO	WATTS PER PHASE	NEUTRAL	CTK NO	WATTS PER PHASE	NEUTRAL	CTK BRKR	LOAD SERVICE
LIGHTING	20A	1215		1	2	720		2	720	20A	REC- ENTRY
REFRIGERATOR	20A	1800		3	4	720		4	720	20A	REC- KITCHEN ISLAND
RANGE	40A	4000		5	6	360		6	360	20A	REC- KITCHEN
DRYER	30A	2500		9	10	720		10	720	20A	REC- KITCHEN
WASHER	20A	1440		11	12	360		12	360	20A	REC- BEDROOM 1
GARBAGE DISPOSAL	20A	1000		13	14	720		14	720	20A	REC- BEDROOM 1 SWITCHED
AHU-1	50A	4332		17	18	900		18	900	20A	REC- BEDROOM 1
HP-1	30A	1738		19	20	1080		20	1080	20A	REC- LIVING
HOOD OVER RANGE	20A	500		21	22	180		22	180	20A	REC- LIVING
EWI	30A	2250		27	28	720		28	720	20A	REC- BEDROOM 2
DOORBELL	20A	2250		29	30	360		30	360	20A	REC- BEDROOM 2 SWITCHED
SPACE				31	32	180		32	180	20A	REC- BEDROOM 2
SPACE				33	34	180		34	180	20A	REC- BEDROOM 2
SPACE				35	36	540		36	540	20A	REC- MASTER SWITCHED
SPACE				37	38			38			REC- MASTER
SPACE				39	40			40			REC- MASTER BATHROOM
SPACE				41	42			42			REC- PATIO
SPACE				43	44			44			SPACE
SPACE				45	46			46			SPACE
SPACE				47	48			48			SPACE
SPACE				49	50			50			SPACE
SPACE				51	52			52			SPACE
NOTES	SUB-TOTALS 'B'		17975	17720	100A BUS LUGS 5220 5220		SUB-TOTALS 'A'		TOTAL CONNECTED LOAD		
						100A FEED 17975 17720					
						VERIFY SIZE 193A 191A					

(UNIT-B&C) (TYP.)  
DIVERSIFIED LOAD PER NEC ARTICLE 220-83(B)

A. SPACE HEATING & AIR CONDITIONING = 6168

ELECTRICAL HEAT: 100% OF NAMEPLATE RATING = 3840W  
AIR CONDITIONING: 100% OF NAME PLATE RATING = 2328W

B. ALL OTHER LOADS = 17066

GENERAL LIGHTING: 1575 SQ. FT. X 3 W/SQ. FT. = 4725W  
3 - 20A APPLIANCE CKTS @ 1500W EACH = 4500W  
1 - ELECTRIC WATER HEATER = 4500W  
1 - WASHER UNIT = 1440W  
1 - DRYER UNIT = 5000W  
1 - DISH WASHER = 1000W  
1 - ELECTRIC RANGE = 8000W  
1 - REFRIGERATOR = 1500W

FIRST 8KW @ 100% = 8000W  
REMAINDER @ 40% = 9066W

REQUIRED DEMAND LOAD = 23234

REQUIRED SERVICE CAPACITY = 97A

23,234W @ 240V 1PH = 96.8AA

(UNIT-A&D) (TYP.)  
DIVERSIFIED LOAD PER NEC ARTICLE 220-83(B)

A. SPACE HEATING & AIR CONDITIONING = 6480

ELECTRICAL HEAT: 100% OF NAMEPLATE RATING = 3840W  
AIR CONDITIONING: 100% OF NAME PLATE RATING = 2640W

B. ALL OTHER LOADS = 17066

GENERAL LIGHTING: 1575 SQ. FT. X 3 W/SQ. FT. = 4725W  
3 - 20A APPLIANCE CKTS @ 1500W EACH = 4500W  
1 - WASHER UNIT = 1440W  
1 - DRYER UNIT = 5000W  
1 - DISH WASHER = 1000W  
1 - ELECTRIC RANGE = 8000W  
1 - REFRIGERATOR = 1500W

FIRST 8KW @ 100% = 8000W  
REMAINDER @ 40% = 9066W

REQUIRED DEMAND LOAD = 23546

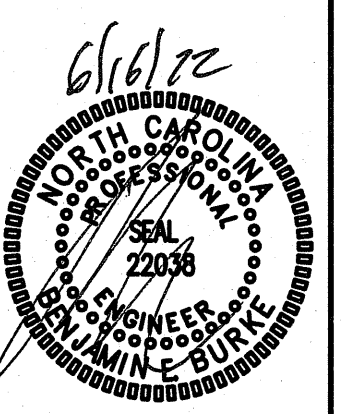
REQUIRED SERVICE CAPACITY = 98A

23,546W @ 240V 1PH = 98.1AA

ENGINEER  
**BURKE DESIGN GROUP**  
3305-109 DURHAM DRIVE  
RALEIGH, NC 27603  
PHONE: (919) 771-1916  
FAX: (919) 779-0826  
email: ben@bdg-nc.com  
Corp. License # C-2652

**Coastal Architecture**  
Architectural Design Planning Interiors  
Member of the American Institute of Architects  
Lee D. Dixon, Jr., AIA  
4206 Bridges St. Ext., Suite C  
Morehead City, NC 28557  
www.CoastalArchitecture.net

PEPPERTREE BUILDING 34  
ATLANTIC BEACH, NORTH CAROLINA



ELECTRICAL PANELS & RISER

21014  
ISSUED: 5-17-22  
DWG BY: JQ  
CKD BY: BEB  
REVISIONS

SHEET NO.  
**E-4**