

VOLTAGE: 240/120V		PANEL: D										1 PHASE 3 WIRE FLUSH MOUNTED NEMA 1	
AMPS: 150 - MLO		LOAD PER PHASE											
- DESCRIPTION -		POLE	WIRE SIZE	BK SIZE	CCT #	A	B	CCT #	BK SIZE	WIRE SIZE	POLE	- DESCRIPTION -	
AFI	REFRIGERATOR	1	12	20	1	0.7/4.0		2	50	6	2	RANGE	
AFI	DISHWASHER	1	14	15	3	1.1/4.0	4						
AFI	MICROWAVE	1	12	20	5	1.5/2.5	8	30	10	2	DRYER		
AFI	KITCHEN APPLIANCES	1	12	20	7	1.5/2.5	8						
AFI	KITCHEN APPLIANCES	1	12	20	9	1.5/4.3	10	50	6	2	AH-2		
AFI	LTS/RECEPTACLES	1	14	15	11	1.1/4.4	12						
AFI	LTS/RECEPTACLES	1	14	15	13	1.0/3.0	14	40	8	2	WH-2		
AFI	LTS/RECEPTACLES	1	14	15	15	1.0/3.0	16						
AFI	LTS/RECEPTACLES	1	14	15	17	1.0/2.1	18	30	10	2	HP-2		
AFI	BATHROOM RECEPTACLES	1	12	20	18	0.7/2.0	20						
AFI	WASHER	1	12	20	21	1.5/-	22	-	-	1	SPACE		
	SPACE	1	-	-	23	-/-	24	-	-	1	SPACE		
	SPACE	1	-	-	25	-/-	26	-	-	1	SPACE		
	SPACE	1	-	-	27	-/-	28	-	-	1	SPACE		
	SPACE	1	-	-	29	-/-	30	-	-	1	SPACE		
TOTAL CONNECTED KVA						23.1	21.3			DEMAND KVA: 28.6			
PANEL RMS SYM. AMPS: SEE RISER										DEMAND AMPS: 119			

- PANEL SHALL BE EQUAL TO SQUARE D QO LOAD CENTER SERIES.
- PROVIDE HACR BREAKERS FOR HVAC EQUIPMENT.
- PROVIDE SMD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.
- * - PROVIDE ARC FAULT CIRCUIT INTERRUPT BREAKER.
- L - INDICATES LOCK-ON ATTACHMENT REQUIRED.

LOAD DEMAND CALCULATION - RESIDENTIAL NEC SECTION 220-82	
UNIT TYPE: 002, 202, 302 SYSTEM VOLTAGE: 240/120V, 1Ø, 3W SERVICE SIZE: 150 AMPS SQUARE FEET: 1606	
LOAD DESCRIPTION	KVA
LIGHTING 4 RECEPTACLES (SQUARE FEET X 3 VA)	4.8
SMALL APPLIANCES (2 CIRCUITS X 1.5 KVA/CIRCUIT)	3.0
ELEC. CLOTHES DRYER	5.0
WASHER	1.5
RANGE	8.0
DISHWASHER	1.1
WATER HEATER	6.0
REFRIGERATOR	0.7
MICROWAVE	1.5
TOTAL	31.6
FIRST 10 KVA AT 100%	10.0
REMAINDER AT 40%	8.6
HEAT PUMP	4.1
AIR HANDLER	0.7
STRIP HEAT AT 65%	5.2
HEATING AT 100%	10.0
TOTAL RESIDENTIAL KVA	28.6

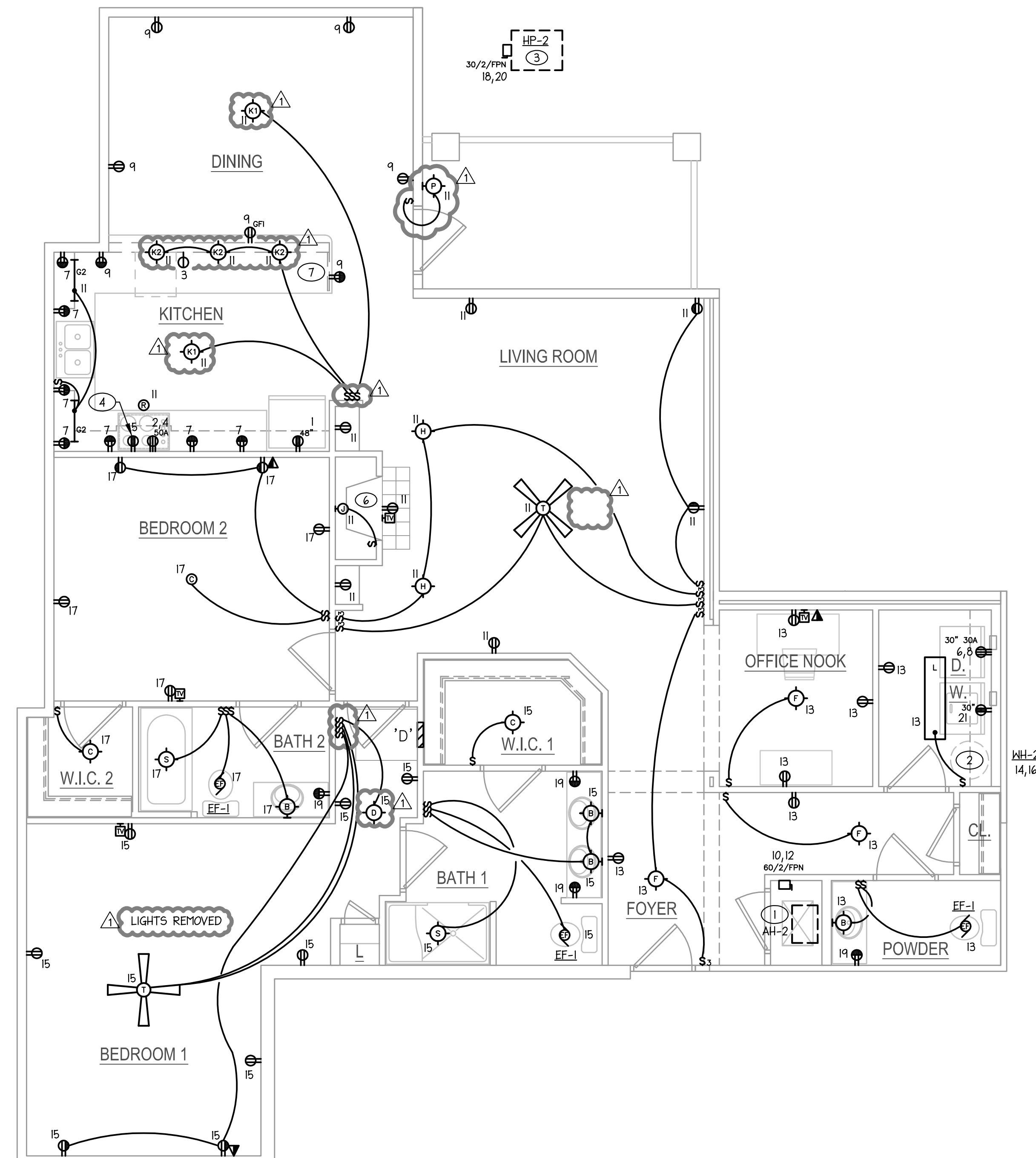
PANEL E REMOVED

GENERAL NOTES: (UNIT PLANS)

- ALL CIRCUIT NUMBERS SHOWN TO RESPECTIVE UNIT PANEL, UNLESS OTHERWISE NOTED.

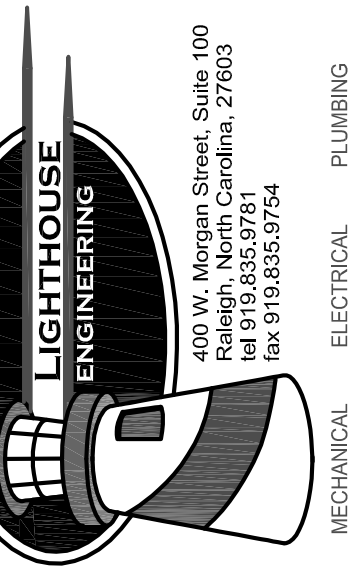
TAGGED NOTES: (UNIT PLANS)

- PROVIDE A FUSE DISCONNECT SWITCH FOR EACH UNIT'S AIR HANDLER. SEE UNIT PANEL SCHEDULE FOR ACTUAL WIRE AND BREAKER SIZE. DISCONNECT SHALL BE INSTALLED TO PERMIT REQUIRED WORKING CLEARANCE.
- CIRCUIT FOR EACH UNIT'S WATER HEATER. SEE UNIT PANEL SCHEDULE FOR ACTUAL WIRE AND BREAKER SIZE. DISCONNECT SHALL BE BREAKER WITH LOCK-OFF DEVICE.
- SEE BUILDING PLANS FOR HEAT PUMP UNIT LOCATIONS.
- PROVIDE RECEPTACLE IN CABINET SPACE ABOVE RANGE FOR FUTURE MICROWAVE. COORDINATE LOCATION WITH MILLWORK.
- MOUNT RECEPTACLES HORIZONTAL ABOVE BACKSPLASH.
- E.G. SHALL COORDINATE EXACT FIREPLACE REQUIREMENTS WITH FIREPLACE MANUFACTURER. MOUNT RECEPTACLE AND CATV OUTLET ABOVE MANTLE.
- MOUNT RECEPTACLES HORIZONTAL 6" BELOW COUNTER TOP.



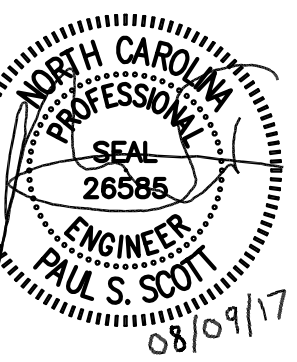
1 UNIT 4
1/4" = 1'-0"

J DAVIS



400 W. Morgan Street, Suite 100
Raleigh, North Carolina, 27603
Tel: 919.835.9754
Fax: 919.835.9754

Concordia Building Company
Nantucket Condominiums
700 Waterford Lake Drive Cary, NC



PROJECT:	WOP-05115	DATE	06.16.2017
REVISIONS:			
1	CITY COMMENTS		08.07.17

DRAWN BY:	PSS
CHECKED BY:	PSS
CONTENT:	ELECTRICAL
	UNIT PLAN

E4.03