



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

NOTE: ALL BREAKERS ARE 20/1 UNLESS SHOWN OTHERWISE. \* GROUND FAULT

LIGHTS	15/1	1	2
DRYER	15/1	3	4
DRYER	30/2	5	6
DRYER	40/2	7	8
DRYER	40/2	9	10
DRYER	40/2	11	12
HEAT	30/2	13	14
HEAT	30/2	15	16
A/C	30/2	17	18
A/C	30/2	19	20
SPACE	21	21	22
SPACE	23	23	24
	25	25	26
	27	27	28
	29	29	30
	31	31	32
	33	33	34
	35	35	36
	37	37	38
	39	39	40
	41	41	42

MAIN BREAKER IC

PANEL B	120/240 VOLT, 1 PH, 3 W	
100A MAINS	MAIN BREAKER: - AMP, - POLE	
24 POLES	DIMENSIONS: - W, - D	
<input type="checkbox"/> SURFACE MOUNTED	<input checked="" type="checkbox"/> S/N BAR	CONNECTED LOAD:
<input checked="" type="checkbox"/> FLUSH MOUNTED	<input checked="" type="checkbox"/> GRD. BAR	KW, _____ AMPS
MANUFACTURER & MODEL: FPE, 30.0 OR GE		

CONNECTED LOAD PER NEC ARTICLE 220-30

SPACE HEATING & AIR COOLING

a. ELECTRICAL HEAT: 65% OF NAMEPLATE RATING 2.5 KW

b. AIR COND.: 100% OF NAMEPLATE RATING 3.4 KW

LARGER OF a or b 3.4

OTHER LOAD

INDIVIDUALLY CONTROLLED HEATERS	10
970 SQ. FEET x 3W/SQ. FEET	2910
2 20 AMP APPLIANCE CKT. (S)	3000
1500 W/CKT.	
1 LAUNDRY CKT. (S) 1500/CKT.	1500
1 HOT WATER HEATER	4500
1 DRYER	5000
1 DISHWASHER	1200
1 DISPOSAL	600
1 RANGE	12000
LOADS NOT LISTED	0
TOTAL OTHER LOAD	30710
÷ 1000 W	30.7 KW
FIRST 10 KW of 100%	10.0 KW
REMAINDER of 40%	8.2 KW
REQUIRED DEMAND LOAD (A+B+C)	21.7 KW
SERVICE CAPACITY REQUIRED:	
KW x 1000W ÷ 230 V =	94.4 AMPS

PANEL B

NOTE: ALL BREAKERS ARE 20/1 UNLESS SHOWN OTHERWISE. \* GROUND FAULT

LIGHTS	15/1	1	2
DRYER	15/1	3	4
DRYER	30/2	5	6
DRYER	40/2	7	8
DRYER	40/2	9	10
DRYER	40/2	11	12
HEAT	30/2	13	14
HEAT	30/2	15	16
A/C	30/2	17	18
A/C	30/2	19	20
SPACE	21	21	22
SPACE	23	23	24
	25	25	26
	27	27	28
	29	29	30
	31	31	32
	33	33	34
	35	35	36
	37	37	38
	39	39	40
	41	41	42

MAIN BREAKER IC

PANEL A	120/240 VOLT, 1 PH, 3 W	
100A MAINS	MAIN BREAKER: - AMP, - POLE	
24 POLES	DIMENSIONS: - W, - D	
<input type="checkbox"/> SURFACE MOUNTED	<input checked="" type="checkbox"/> S/N BAR	CONNECTED LOAD:
<input checked="" type="checkbox"/> FLUSH MOUNTED	<input checked="" type="checkbox"/> GRD. BAR	KW, _____ AMPS
MANUFACTURER & MODEL: FPE, 30.0 OR GE		

CONNECTED LOAD PER NEC ARTICLE 220-30

SPACE HEATING & AIR COOLING

a. ELECTRICAL HEAT: 65% OF NAMEPLATE RATING 3.2 KW

b. AIR COND.: 100% OF NAMEPLATE RATING 3.4 KW

LARGER OF a or b 3.4

OTHER LOAD

INDIVIDUALLY CONTROLLED HEATERS	0
870 SQ. FEET x 3W/SQ. FEET	2610
2 20 AMP APPLIANCE CKT. (S)	3000
1500 W/CKT.	
1 LAUNDRY CKT. (S) 1500/CKT.	1500
1 HOT WATER HEATER	4500
1 DRYER	5000
1 DISHWASHER	1200
1 DISPOSAL	600
1 RANGE	12000
LOADS NOT LISTED	0
TOTAL OTHER LOAD	30410
÷ 1000 W	30.4 KW
FIRST 10 KW of 100%	10.0 KW
REMAINDER of 40%	8.2 KW
REQUIRED DEMAND LOAD (A+B+C)	21.6 KW
SERVICE CAPACITY REQUIRED:	
KW x 1000W ÷ 230 V =	93.9 AMPS

PANEL A



revisions  
11/14/80 PER. ARCH.

at ai

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raleigh, n. c. 27609 919-876-8400

project  
ASHTON WOODS APARTMENTS  
owner  
ASHTON WOODS ASSOCIATED  
location  
CARY, N. C.  
job number  
8002-04  
drawn by  
DB, LON  
date  
NOVEMBER 1980  
ELECTRICAL PLAN  
UNITS 'A' AND 'B'  
ISSUED FOR  
CONSTRUCTION  
MARCH 2, 1981

B N K  
BASS, NIXON & KENNEDY, INC.  
CONSULTING ENGINEERS  
7416 CHAPEL HILL ROAD  
RALEIGH, NORTH CAROLINA 27606



SHEET NUMBER  
E-2  
OF 3 SHEETS

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