

Panel Tag-		(N)TENANT PANEL "H"															
Panel Location-		cellar															
Voltage (Phase-Ground/Phase-Phase)		120		240		Wire- 3											
Phase- 1						AIC- 22k											
Rated Amps- 200						Mounting- Surface											
MCB 200																	
Circuit	Description	New/Existing	Load Type	Breaker Size	Poles	Wire Size	A	B	A	B	Wire Size	Poles	Breaker Size	Load Type	New/Existing	Description	Circuit
1	RECEPTS - GFI BATHROOM		R	20*	1	2#12+1#12G, MC	0.7		1.2		2#12+1#12G, MC	1	20*	R		RECEPTACLES	2
3	SMOKE DETECTORS		Misc	20*	1	2#12+1#12G, MC		0.2		1.5	2#12+1#12G, MC	1	20	R		WASHER	4
5	WP/GFI		R	20*	1	2#12+1#12G, MC	0.5		1.0		2#12+1#12G, MC	1	20*	R		RECEPTACLES	6
7	DRYER		R	30	2	2#10+1#10G, 3/4"		2.5		1.0	2#12+1#12G, MC	1	20	L		LIGHTING	8
9			R				2.5		1.1		2#12+1#12G, MC	1	20*	R		RECEPTACLES	10
11	DED RECEPT- REF		R	20	1	2#12+1#12G, MC		1.5		1.5	2#12+1#12G, MC	1	20	R		DED. RECEPTS MW-GFI	12
13	DED RECEPT- DISPOSAL		R	20	1	2#12+1#12G, MC	0.9		1.5		2#12+1#12G, MC	1	20	R		RECEPTS - GFI KITCHEN	14
15	DED RECEPT- DW		R	20	1	2#12+1#12G, MC		1.5		0.9	2#12+1#12G, MC	1	15	MCA		GAS FIRED INDOOR UNIT	16
17	CU-1 OUTDOOR UNIT		M	20	2	2#12+1#12G, 3/4"	1.8		1.1		2#12+1#12G, MC	1	20*	R		RECEPTACLES	18
19			MCA					1.7		0.5	2#12+1#12G, MC	1	20	R		BATH RMS EXH FANS	20
21	LIGHTING		L	20	1	2#12+1#12G, MC	1.1		1.0		2#12+1#12G, MC	1	20	R		RECEPTS - GFI KITCHEN	22
23	LIGHTING		L	20	1	2#12+1#12G, MC		1.1		0.3	2#12+1#12G, MC	1	20	R		KITCHEN EXH FAN	24
25	GAS WATER HEATER		WH	15	1	2#12+1#12G, MC	0.9				2#12+1#12G, MC	1		R		RECEPTACLES	26
27	HP-1 OUTDOOR UNIT		M	30	2	2#10+1#10G, MC		1.5		3.9	2#8+1#8G, MC	2	40	M		AHU-1	28
29			MCA				1.6		3.9					MCA			30
31	SPARE															SPARE	32
33	SPARE															SPARE	34
35	SPARE															SPARE	36
37	SPARE															SPARE	38
39	SPARE															SPARE	40
41	SPARE															SPARE	42
							A	B	Total								
Connected Load							20.8	19.6	40.4								
Connected Amps							173.33	163.50	168.42								

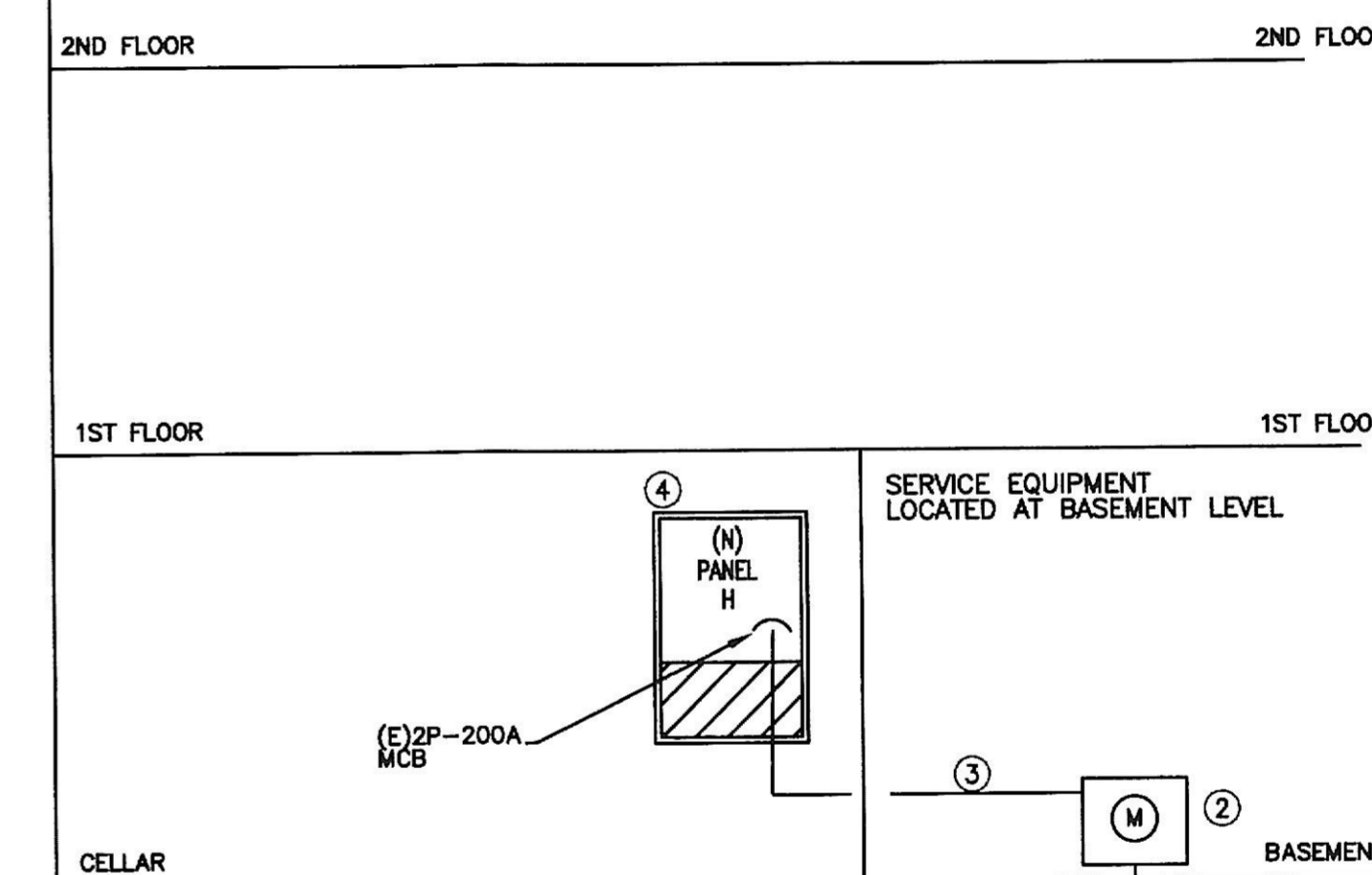
Demand Load Calculation			
	Factor	Connected Load (KW)	Demand Load (KW)
Continuous Loads (C)	1.25	0.0	0.0
Non-Continuous Loads (NC)	1.00	0.0	0.0
Lighting (L)	0.90	3.2	2.9
Receptacles (R) - 1st 10 KVA	1.00	10.0	10.0
Receptacles (R) - Over 10 KVA	0.50	10.8	5.4
Motor Loads (M)	1.00	7.2	7.2
Largest Motor Load (M) - 25% Factor	0.25	7.8	2.0
Assembly (MCA)	1.00	8.1	8.1
Kitchen (K)	0.70	0.0	0.0
Cooking (C)	0.70	0.0	0.0
Miscellaneous (Misc)	0.90	0.2	0.2
Transformer (T)	1.00	0.0	0.0
Water Heater (WH)	1.00	0.9	0.9
Sub-Panel (SP)	1.00	0.0	0.0
Demand Load			36.6
Demand Amps			152.63

LOAD DEMAND CALCULATION DWELLING UNIT NEC TABLE 220-30	
UNIT TYPE: TOWNHOUSE	
LIGHTING/RECEPTACLE 2466 @3W/SQ/FT	= 7,400 WATTS
SMALL APPLIANCES 2 @ 2000 VA	= 4,000 WATTS
GAS RANGE	= -- WATTS
ELECTRIC DRYER	= 5,000 WATTS
DISHWASHER	= 1,300 WATTS
GAS WATER HEATER	= -- WATTS
SUBTOTAL	= 17,700 WATTS

1ST 10KW @ 100%	= 10,000 WATTS
REMAINDER @ 40%	= 3,080 WATTS
AIR CONDITIONING LARGER @ 100%	= 3,500 WATTS
	= 7,800 WATTS
TOTAL WATTS	= 24,380 WATTS
AMPS @ 240V, 1PH	= 101.6 AMPS

MECHANICAL EQUIPMENT SCHEDULE:

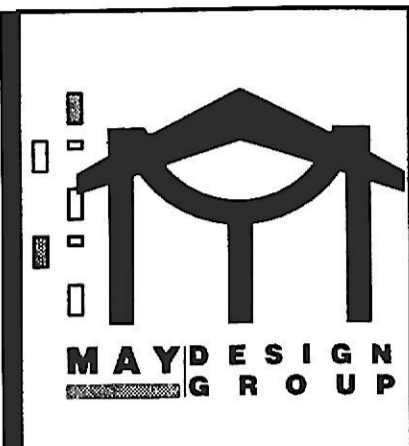
- GF-1 (GAS FURNACE) 120V-1PH
1/2 HP (FAN)=7.8 FLA
PROVIDE A SINGLE POLE MOTOR RATED SWITCH.
- CU-1 (OUTDOOR) 208V-1PH
MCA = 14.4 AMP.
MOCP = 20 AMP
PROVIDE A 20A-2POLE FSS F @ 20A, NEMA 3R ENCLOSURE.
GENERAL DUTY SAFETY SWITCH
- GAS WATER HEATER 120V-1PH
5 AMPS 0.9KW
PROVIDE A SINGLE POLE -15AMP
- AHU-1 (INDOOR UNIT) 208V-1PH
MCA = 38 AMP.
MOCP = 40 AMP
PROVIDE A 40A-2POLE FSS F @ 40A, NEMA 3R ENCLOSURE.
GENERAL DUTY SAFETY SWITCH
- HP-1 (OUTDOOR UNIT) 208V-1PH
MCA = 14.7 AMP.
MOCP = 25 AMP
PROVIDE A 30A-2POLE FSS F @ 30A, NEMA 3R ENCLOSURE.
GENERAL DUTY SAFETY SWITCH



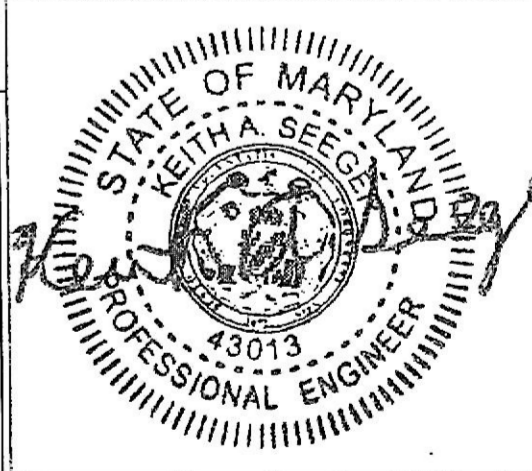
1 NEW POWER RISER DIAGRAM
SCALE: NO SCALE

ELECTRICAL RISER NOTES:

- EXISTING 150A, 120/240V, 1φ, 3W, INCOMING SERVICE FROM PEPCO TO REMAIN.
- EXISTING METER PER PEPCO REQUIREMENTS.
- EXISTING FEEDER TO REMAIN.
- EXISTING 200A, 120V/240V, 1φ, 3W, PANEL, WITH 2P-200A MCB. SEE PANEL SCHEDULE.



4015 WOODLEA AVE
BALTIMORE, 21206 MD
SQ: 6,996 LOT: 016



SCALE: AS NOTED

DATE:

PROJECT NUMBER:

SCHEDULES
AND RISER
DIAGRAM

E200