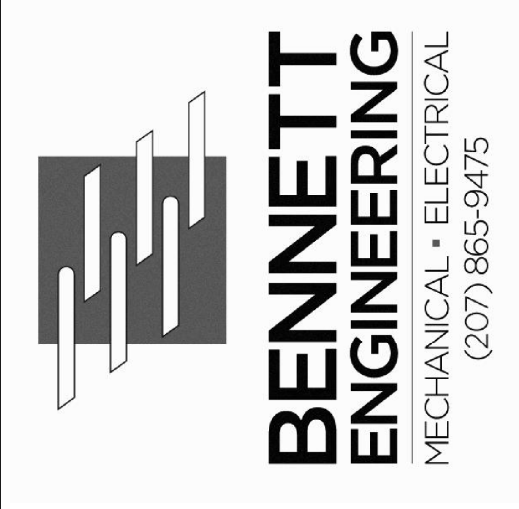


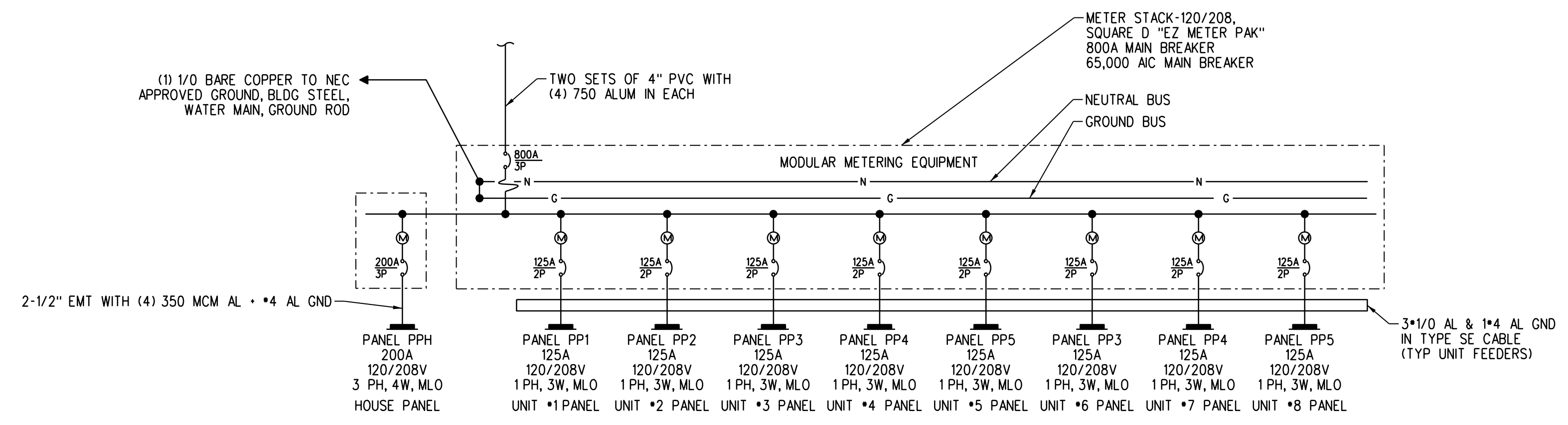
PROGRESS PRINT  
NOT FOR CONSTRUCTION



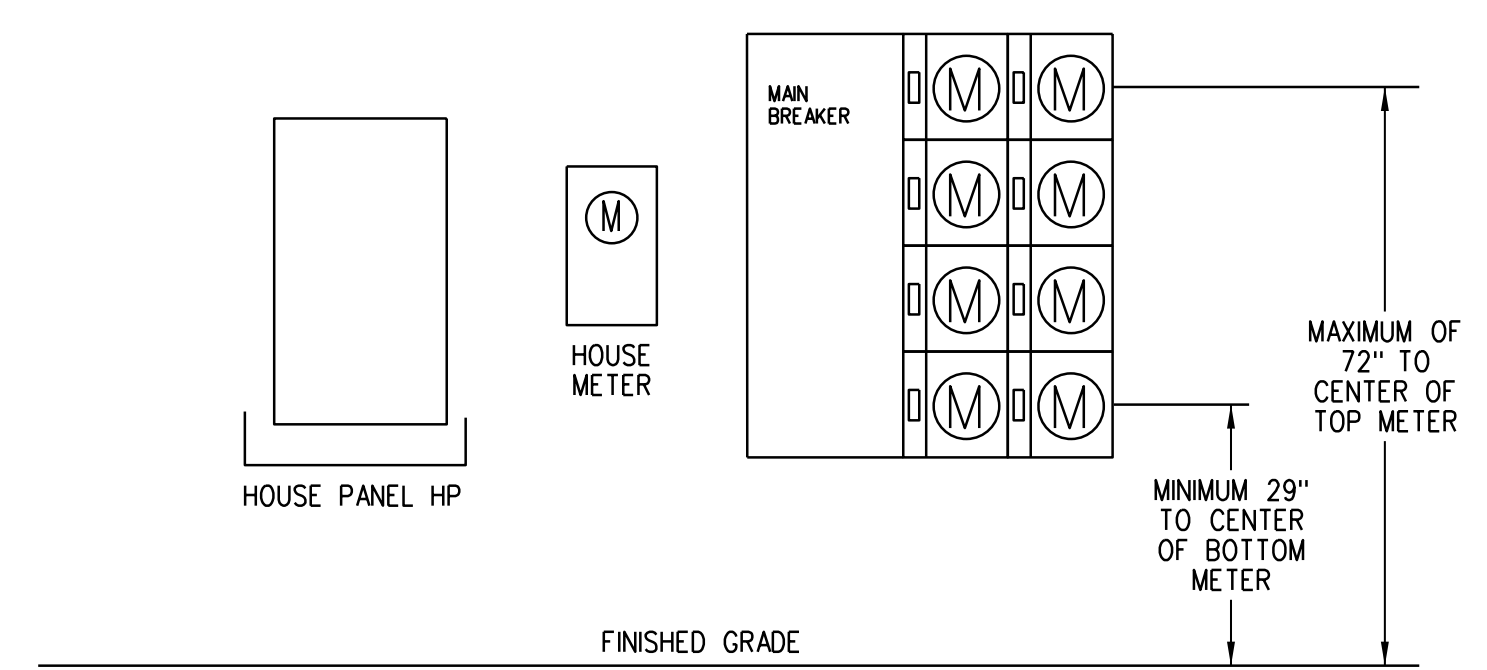
IDEAL ELECTRIC  
86 China Rd.  
Winslow, ME 04901

65 MUNJOY ST. APARTMENTS  
65 Munjoy St., Portland, ME 04101  
ELECTRICAL DIAGRAMS & PANEL SCHEDULES

Date Drawn: 09/19/2016  
Drawn By: CAT  
Checked By: SAJ  
Revision:  
1.  
2.  
3.  
4.  
5.  
6.  
7.  
BEI Project No: 3936  
Scale: AS NOTED  
Sht Num: E3.1



ONE-LINE DIAGRAM  
SCALE: NONE



METER STACK ELEVATION-(8 METERS TOTAL)  
SCALE: NONE

PANEL PPH (BASEMENT) 120/208 3PH 4W 200 AMP BUS - MLO 22K AIC NEMA TYPE 1 (SURFACE)

CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	LIGHTS EXTERIOR	20	1			0	2	HALLWAY HEATER	20	1		1.00	0
3	LIGHTS HALLWAY/STAIRS	20	1			0	4	FACP	20	1	4	1.00	4
5	LIGHTS GARAGE	20	1			0	8	INTERCOM STATION	20	1		1.00	0
7	WATER HEATER #1	50	1	40	1.00	40	10	WATER HEATER #2	50	1	40	1.00	40
9													
11	SPARE	20	1			0	12	SPARE	20	1			0
13	SPARE	20	1			0	14	SPARE	20	1			0
15	SPARE	20	1			0	16	SPARE	20	1			0
17	SPARE	20	1			0	18	SPARE	20	1			0
19	SPARE	20	1			0	20	SPARE	20	1			0
21	SPARE	20	1			0	22	SPARE	20	1			0
23	SPACE					0	24	SPACE	20	1			0
25	SPACE					0	25	FEEDER FOR PANEL PPH-A				1.00	0
27	SPACE					0	28					1.00	0
29	SPACE					0	30					1.00	0

AT - Amp Trip  
P - Poles  
A - Amps  
CA - Connected Amperes  
DF - Demand Factor (1 - .1)  
DA - Demand Amperes  
MLO - Main Lug Only  
MCB - Main Circuit Breaker

PANEL PP1 (1 BEDROOM UNIT) 120/208 1PH 3W/100 AMP BUS - MLO 22K AIC NEMA TYPE 1 (RECESSED)

CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	REFRIGERATOR (AFCI/GFI BREAKER)	20	1	14	1.00	14	2	RANGE	50	2	32	0.50	16
3	RECEPTS LIVING ROOM	20	1	5	0.50	2	4					0.50	0
5	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	6	RECEPT BATH ROOM (AFCI/GFI BREAKER)	20	1	2	0.50	1
7	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	8	EXHAUST FAN (AFCI BREAKER)	20	1	4	0.50	2
9	RECEPTS BEDROOM	20	1	6	0.50	3	10	UNIT LIGHTS (AFCI BREAKER)	20	1	4	0.80	3
11	ELECTRIC BASEBOARD (EBB)	20	2	4	0.50	2	12	HEAT PUMP (MIZFH12NA)	15	2	11	0.50	6
13													
15	DISH WASHER	20	1	10	0.50	5	16	SPARE	20	1			0
17						0	18		20	1			0
19						0	20		20	1			0
21						0	22		20	1			0
23						0	24		20	1			0

TYPICAL FOR UNITS: #10, 11, 22 & 32

NOTES:  
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12  
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.62  
3. INSTALL PER ADA REQUIREMENTS IN ALL ADA UNITS.

PANEL PP2 (2 BEDROOM UNIT) 120/208 1PH 3W/100 AMP BUS - MLO 22K AIC NEMA TYPE 1 (RECESSED)

CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	REFRIGERATOR	20	1	14	1.00	14	2	RANGE	50	2	32	0.50	16
3	RECEPTS LIVING ROOM	20	1	5	0.50	2	4					0.50	0
5	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	6	RECEPT BATH ROOM (AFCI/GFI BREAKER)	20	1	2	0.50	1
7	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	8	EXHAUST FAN (AFCI BREAKER)	20	1	4	0.50	2
9	RECEPTS BEDROOM #1	20	1	6	0.50	3	10	UNIT LIGHTS (AFCI BREAKER)	20	1	4	0.80	3
11	RECEPTS BEDROOM #2	20	1	6	0.50	3	12	HEAT PUMP (MIZFH15NA)	20	2	16	0.50	8
13	ELECTRIC BASEBOARD (EBB)	20	2	4	0.50	2							
15													
17	DISH WASHER	20	1	10	0.50	5	16	SPARE	20	1			0
19						0	18		20	1			0
21						0	20		20	1			0
23						0	22		20	1			0
						0	24		20	1			0

TYPICAL FOR UNITS: #20 & 30

NOTES:  
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12  
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.62  
3. INSTALL PER ADA REQUIREMENTS IN ALL ADA UNITS.

PANEL PP3 (3 BEDROOM UNIT) 120/208 1PH 3W/100 AMP BUS - MLO 22K AIC NEMA TYPE 1 (RECESSED)

CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT#	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	REFRIGERATOR	20	1	14	1.00	14	2	RANGE	50	2	32	0.50	16
3	RECEPTS LIVING ROOM	20	1	5	0.50	2	4					0.50	0
5	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	6	RECEPT BATH ROOM (AFCI/GFI BREAKER)	20	1	2	0.50	1
7	RECEPTS KITCHEN (AFCI/GFI BREAKER)	20	1	13	0.50	6	8	EXHAUST FAN (AFCI BREAKER)	20	1	4	0.50	2
9	RECEPTS BEDROOM #1	20	1	6	0.50	3	10	UNIT LIGHTS (AFCI BREAKER)	20	1	4	0.80	3
11	RECEPTS BEDROOM #2	20	1	6	0.50	3	12	HEAT PUMP (SEZ09)	40	2	20	0.50	15
13	RECEPTS BEDROOM #3	20	1	6	0.50	3							
15	ELECTRIC BASEBOARD (EBB)	20	2	4	0.50	2	14					0.50	0
17													
19						0	16	SPARE	20	1			0
21						0	18	DISH WASHER	20	1	10	0.50	5
23						0	20		20	1			0
						0	22		20	1			0
						0	24		20	1			0

TYPICAL FOR UNITS: #21 & 31

NOTES:  
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12  
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.62  
3. INSTALL PER ADA REQUIREMENTS IN ALL ADA UNITS.

AT - Amp Trip  
P - Poles  
A - Amps  
CA - Connected Amperes  
DF - Demand Factor (1 - .1)  
DA - Demand Amperes  
MLO - Main Lug Only  
MCB - Main Circuit Breaker