

BLDG. 1 SERVICE 1C CALCULATION

208/120V 3 PHASE 4 WIRE

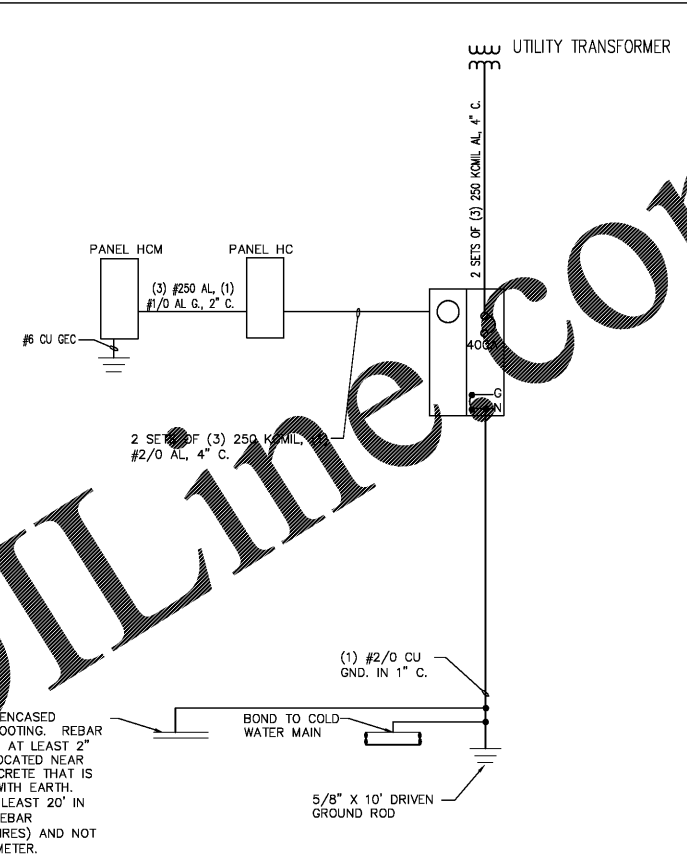
PER NEC 2002, ART. 220.32 - MULTIFAMILY DWELLING

38619 TOTAL S.F.

43 DWELLING UNITS

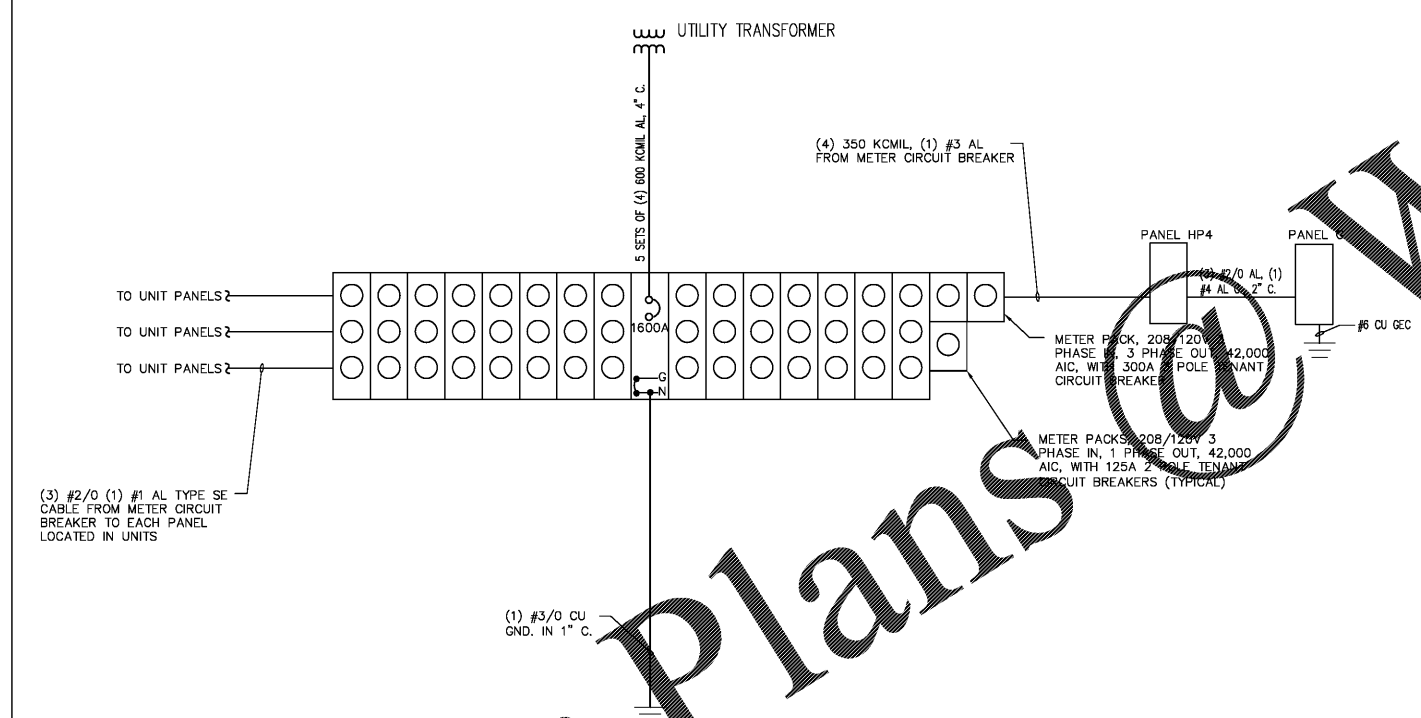
CIRCUIT	VA/S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	129.0	1.0	129.0
LAUNDRY CIRCUITS	-	64.5	1.0	64.5
DRYERS	-	215.0	1.0	215.0
GENERAL LTG. RECEPTACLES	3	115.9	1.0	115.9
RANGES	-	344.0	1.0	344.0
MICROWAVES/EXHAUST HOODS	-	43.0	1.0	43.0
DISPOSALS	-	34.4	1.0	34.4
DISHWASHERS	-	30.1	1.0	30.1
REFRIGERATORS	-	34.4	1.0	34.4
WATER HEATERS	-	193.5	1.0	193.5
HEATING	-	105.9	0.0	0.0
COOLING	-	170.1	1.0	170.1
TOTAL KVA (DWELLING UNITS)	-	-	-	1373.8
DEMAND KVA (DWELLING UNITS)	-	-	0.27	370.9
HOUSE LTG.	-	10.3	1.0	10.3
HOUSE RECEIPT	-	11.4	NEC	10.7
LARGEST MOTOR	-	18.0	1.25	22.5
OTHER MOTORS	-	10.3	1.0	10.3
HOUSE HEATING	-	21.0	1.0	21.0
HOUSE COOLING	-	0.0	1.0	0.0
HOUSE OTHER	-	10.9	1.0	10.9
TOTAL CALCULATED KVA	-	-	-	456.6
TOTAL CALCULATED AMPS	-	-	-	1267.4
TOTAL METERS REQUIRED	-	-	-	44
MIN. MAIN DISCONNECT SIZE (AMPS)	-	-	-	1600

BOND TO CONCRETE ENCASED REBAR ON SLAB OR FOOTING. REBAR MUST BE PLACED IN AT LEAST 2" OF CONCRETE AND LOCATED NEAR THE BOTTOM OF CONCRETE THAT IS IN DIRECT CONTACT WITH EARTH. REBAR SHALL BE AT LEAST 20' IN LENGTH (INCLUDING REBAR CONNECTED BY THE WIRES) AND NOT LESS THAN 1/2" DIAMETER.



3 ELECTRICAL RISER DIAGRAM - MC-HC

E-13.1 NOT TO SCALE



BLDG. 1 SERVICE 1D CALCULATION

208/120V 3 PHASE 4 WIRE

PER NEC 2002, ART. 220.32 - MULTIFAMILY DWELLING

42463 TOTAL S.F.

47 DWELLING UNITS

CIRCUIT	VA/S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	141.0	1.0	141.0
LAUNDRY CIRCUITS	-	70.5	1.0	70.5
DRYERS	-	235.0	1.0	235.0
GENERAL LTG. RECEPTACLES	3	127.4	1.0	127.4
RANGES	-	376.0	1.0	376.0
MICROWAVES/EXHAUST HOODS	-	47.0	1.0	47.0
DISPOSALS	-	37.6	1.0	37.6
DISHWASHERS	-	32.9	1.0	32.9
REFRIGERATORS	-	37.6	1.0	37.6
WATER HEATERS	-	211.5	1.0	211.5
HEATING	-	108.7	0.0	0.0
COOLING	-	200.0	1.0	200.0
TOTAL KVA (DWELLING UNITS)	-	-	-	1516.5
DEMAND KVA (DWELLING UNITS)	-	-	0.26	394.3
HOUSE LTG.	-	14.5	1.0	14.5
HOUSE RECEIPT	-	12.0	NEC	11.0
LARGEST MOTOR	-	18.0	1.25	22.5
OTHER MOTORS	-	2.9	1.0	2.9
HOUSE HEATING	-	2.0	1.0	2.0
HOUSE COOLING	-	0.0	1.0	0.0
HOUSE OTHER	-	15.4	1.0	15.4
TOTAL CALCULATED KVA	-	-	-	462.6
TOTAL CALCULATED AMPS	-	-	-	1284.1
TOTAL METERS REQUIRED	-	-	-	48
MIN. MAIN DISCONNECT SIZE (AMPS)	-	-	-	1600

1 ELECTRICAL RISER DIAGRAM - BLDG. 1D

E-40 NOT TO SCALE



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JOB No: 1701
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 JOB PROGRESS:
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REVISIONS:
 DATE NO.

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 HUNTSVILLE, ALABAMA
 AN APARTMENT COMMUNITY FOR
RBJ BAILEY, LLC

ELECTRICAL
 RISER DIAGRAMS

SHEET NO.
 E-13.1

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