

CPM's LITEPRO V3.00 Point-By-Point Numeric Output 09:35 8-Dec-98  
 PROJECT: 98138 AREA: PROJECT-WIDE GRID: N/A  
 VALUES ARE FC, SCALE: 1"=1.0FT, HORIZ GRID (N), HORIZ CALC, Z= 0.0

CALCULATION SUMMARY-						
AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN	
PARKING LOTS	399x221 FT		4.9	9.0	1.5	

LUMINAIRE SCHEDULE								
TYPE	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING	BALLAST	LLF	QTY
SA	SA	GE LIGHTING (1) 400W HPS (1) "A" DSMT40S	(1) LU-400	50000	33 FEET	208 VOLT	0.85	8
SB	SB	GE LIGHTING (1) 400W HPS II (1) "B" DSMT40S	(1) LU-400	50000	33 FEET	208 VOLT	0.85	2

N/F/  
GENERAL SERVICE CORP.

BIRCHTREE DRIVE 60' R/W

2 STORY MOTEL

APPROX. LOCATION OF  
PANEL "A" IN FIRST  
FLOOR ELEC. ROOM

POOLHOUSE

POOL

FUTURE POOL PANEL BY OTHERS.

N/F  
N. D. NORTON, JR

N/F  
PHILIP C. DAVIS

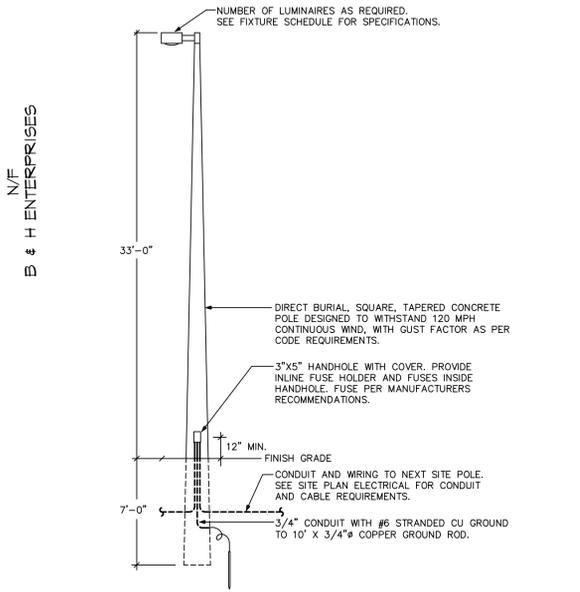
N/F  
GUS KERHOULAS

# 1 SITE PLAN - ELECTRICAL

SCALE: 1"=20'-0"



ELECTRICAL SYMBOLS LEGEND			
SYMBOLS		DESCRIPTION	
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER
	240 VOLT RECEPTACLE (HT. AS REQ.)		PORCELAIN LAMP HOLDER W/ PULL STRING
	QUADRUPLEX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN; M-MOTOR; P-PUMP
	SINGLE POLE SWITCH		SPECIAL OUTLET - AS NOTED
	THREE-WAY SWITCH		CKY. HOMERUN (B INDICATES PANEL) "2" DESIGNATES CIRCUIT NUMBER
	MANUAL STARTER SWITCH		EXIT SIGN; ONE SIDED, OR TWO SIDED
	DIMMER SWITCH		EMERGENCY LIGHTING
	JUNCTION BOX		RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	TELEPHONE JACK		HIGHWAY HID LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	COMPUTER TERMINAL OUTLET		FLUORESCENT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	PANEL		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		FLUORESCENT STRIP LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH		IG ISOLATED GROUND
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		WP WEATHER-PROOF
	FLR. MTD. FLUSH QUAD. RECEPTACLE		BC BELOW COUNTER
	FLR. MTD. FLUSH TELEPHONE JACK		BFG BELOW FINISH GRADE
	FLR. MTD. FLUSH COMPUTER TERMINAL		GFI GROUND FAULT INTERRUPTER
	SMOKE DETECTOR		AFF ABOVE FINISHED FLOOR
	HEAT DETECTOR		EWV ELECTRIC WATER COOLER
	DUCT SMOKE DETECTOR		ASW ABOVE SHOW WINDOW
	MANUAL PULL STATION		BSW BELOW SHOW WINDOW
	HORN WITH STROBE LIGHT, MTD. +80"		FACP FIRE ALARM CONTROL PANEL
	STROBE LIGHT ONLY, MTD. +80"		FAAP FIRE ALARM ANNUNCIATOR PANEL



# 2 SITE POLE DETAIL

NO SCALE

Point by Point Area Analysis  
 Generated by LitePro V3.00  
 Provided and supported by CPM Lighting, Inc.  
 Project Filename: 98138

Point by Point Area Analysis			
Project name: Ramada Inn	Project #98138		
Prepared for: ABL Architects	Date: 8-Dec-98		
Prepared by: Todd W. Carey, P.E.	UPD: 0.1W/Sq.Ft		

4650.0 Total Watts, 88179.0 Total Area (0.1W/Sq.Ft)  
 Uses IES procedures for Point-by-point Method. CPM is not responsible for light output of lamp/ballast, non-CPM products, or design variables not shown.

Area Name: PARKING LOTS (Outdoor) No. Identical Areas = 1  
 Description: Parking lot calculation

DIMENSIONS: (Ft)  
 Width (E-W): 399.00  
 Length (N-S): 221.00  
 Total Area: 88179.02

ENVIRONMENTAL CONDITION: Very Clean # OBSTRUCTIONS: 0  
 LUMINAIRES:

Type A: TEST #GE8605: TOTAL QUANTITY PER AREA = 8  
 GE LIGHTING, DSMT40S, DECASHIELD III  
 FORWARD THROW,  
 LAMPS: (1) LU-400, Lumens= 50000  
 BALLAST: STD, WATTS= 465, VOLTS= 0

Type B: TEST #GE7315: TOTAL QUANTITY PER AREA = 2  
 GE LIGHTING, DSMT40S, DECASHIELD III  
 W-C-TII,  
 LAMPS: (1) LU-400, Lumens= 50000  
 BALLAST: STD, WATTS= 465, VOLTS= 0

LUMINAIRE ASSEMBLIES:  
 Type SA: (1) 400W HPS, 33 FEET, N/A  
 Assembly includes the following luminaires:  

TYPE	MH	DRI	TILT	ROLL	BKT	LEN	BKT	ROT
A	33.00	0	0	0	0	1.00	0	0

Type SB: (1) 400W HPS II, 33 FEET, N/A  
 Assembly includes the following luminaires:  

TYPE	MH	DRI	TILT	ROLL	BKT	LEN	BKT	ROT
B	33.00	0	0	0	0	1.00	0	0

LUMINAIRE/ASSEMBLY PLACEMENTS:

#	TYPE	X-START	X-STEP	COL	Y-START	Y-STEP	ROW	MHT	DRI	TILT	ROLL	G-DRI
1	*SB	79.50	0.00	1	94.50	0.00	1	0.00	350	0	0	0
2	*SB	161.90	0.00	1	114.60	0.00	1	0.00	350	0	0	0
3	*SA	239.50	0.00	1	120.50	0.00	1	0.00	345	0	0	0
4	*SA	304.50	0.00	1	134.50	0.00	1	0.00	345	0	0	0
5	*SA	384.00	0.00	1	187.50	0.00	1	0.00	260	0	0	0
6	*SA	219.50	0.00	1	28.60	0.00	1	0.00	5	0	0	0
7	*SA	273.30	0.00	1	24.00	0.00	1	0.00	5	0	0	0
8	*SA	297.00	0.00	1	60.00	0.00	1	0.00	5	0	0	0
9	*SA	383.20	0.00	1	75.30	0.00	1	0.00	275	0	0	0
10	*SA	387.60	0.00	1	128.70	0.00	1	0.00	275	0	0	0

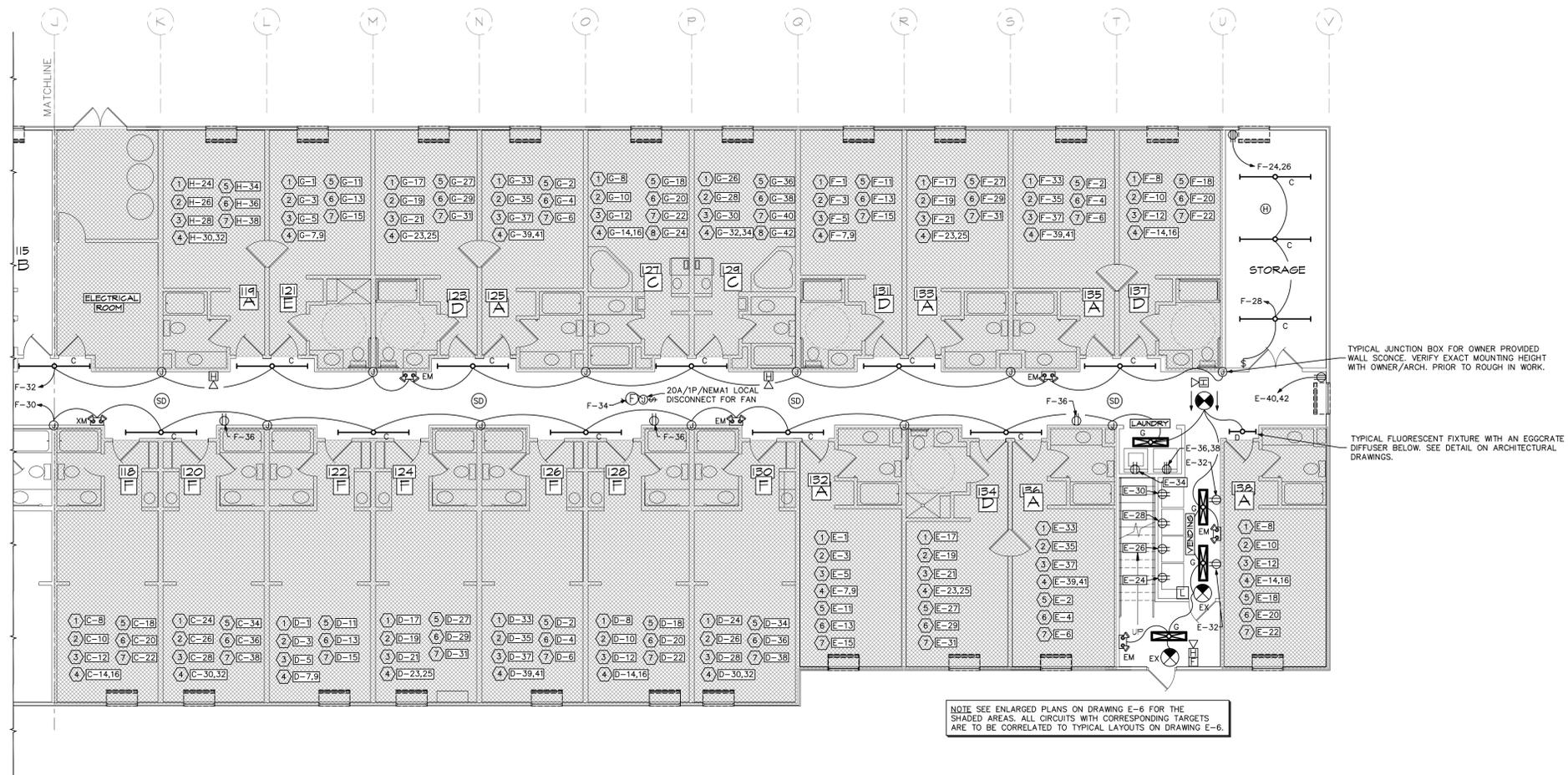
LUMINAIRE QUANTITY SUMMARY:

TYPE	#
A	2
B	8
TOTAL	10

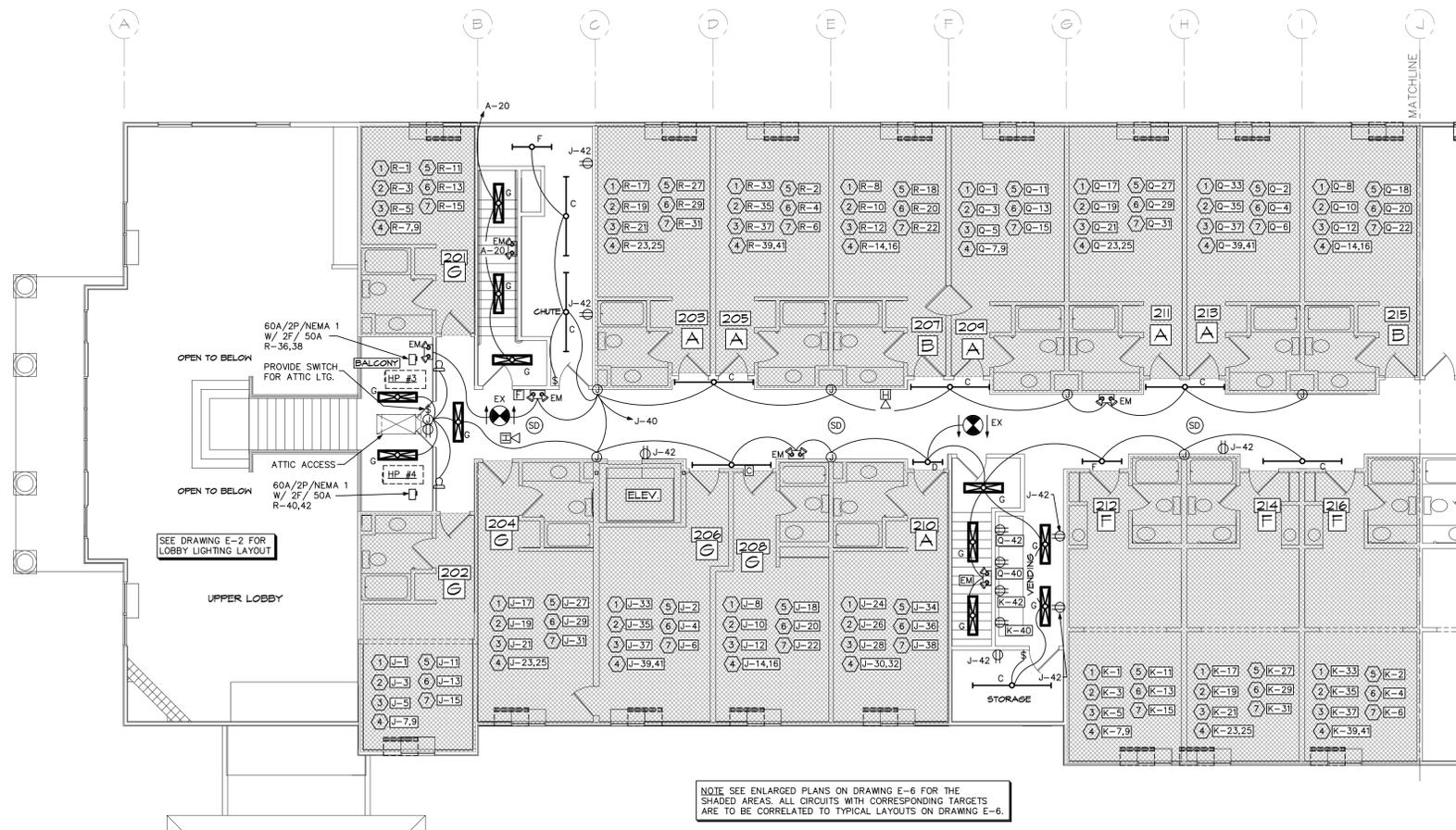
ASSEMBLY QUANTITY SUMMARY:

TYPE	#
SA	8
SB	2
TOTAL	10





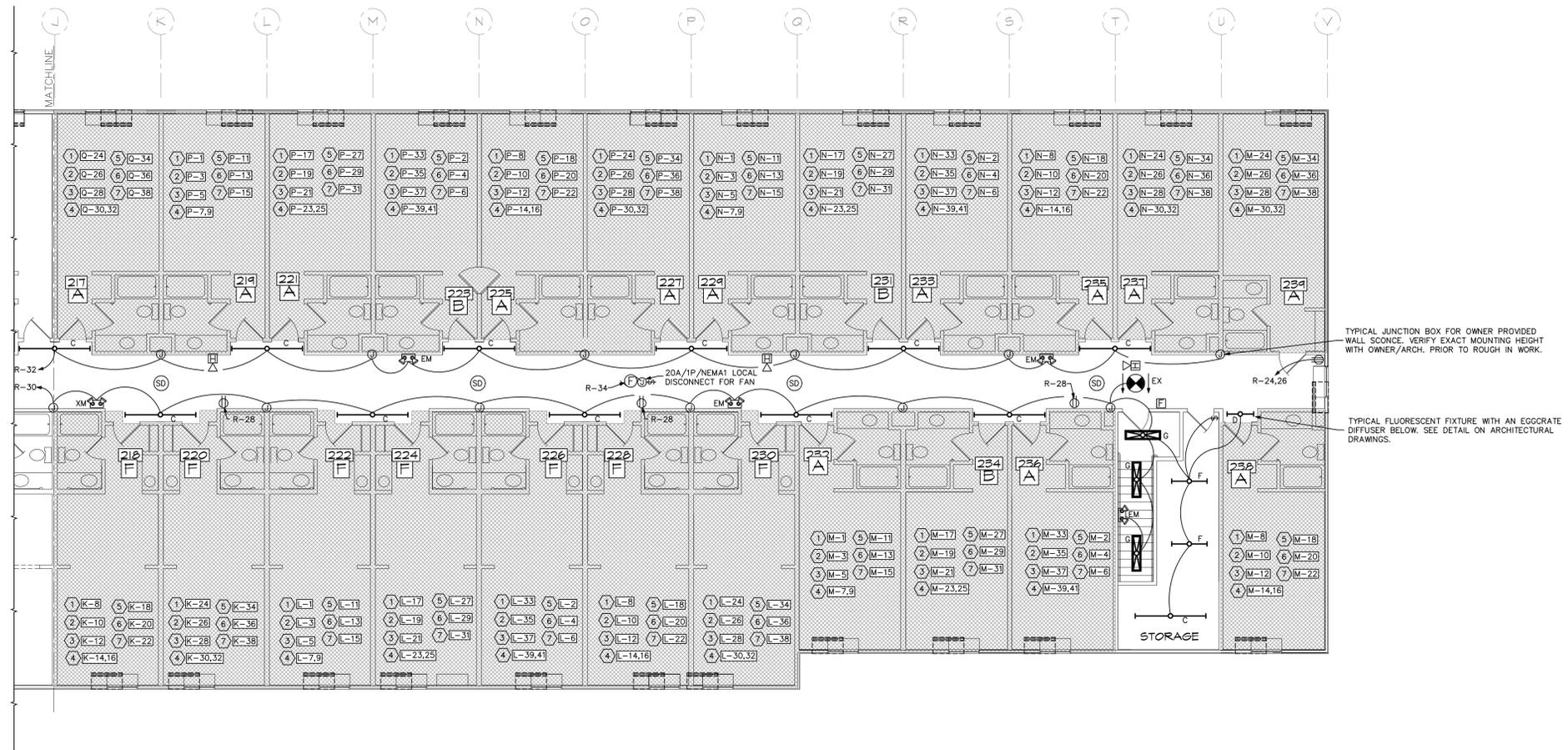
**1 PARTIAL FIRST FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"



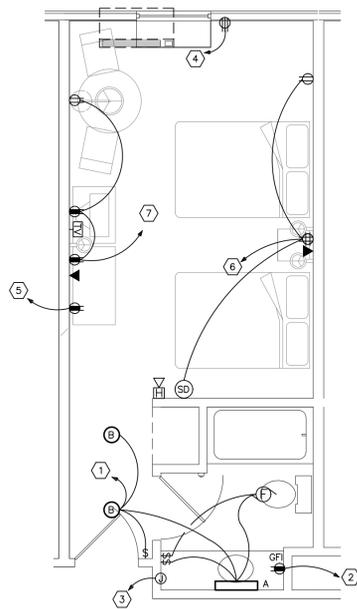
**1 PARTIAL SECOND FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"

**ELECTRICAL NOTES:**

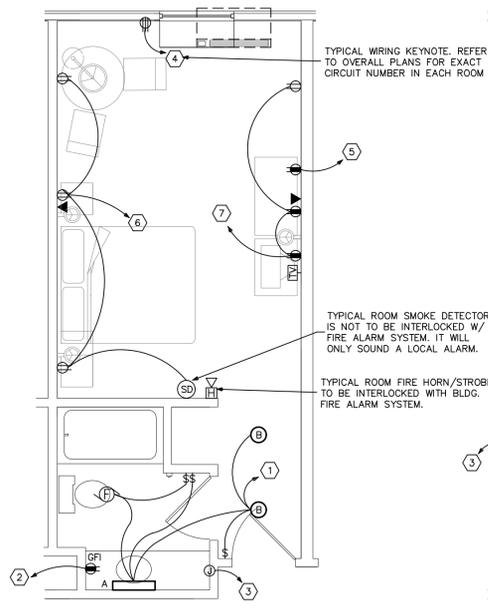
- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.  
THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.  
THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.  
COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
- SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE", "BY OTHERS", OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.
- EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.
- GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC. PROVIDE GROUND WIRES IN ALL CONDUITS UNLESS OTHERWISE NOTED.
- CONDUITS: ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.  
CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-88-PVC (SCHEDULE 80).
- CONDUCTORS: CONDUCTORS SHALL BE THWN COPPER. POWER, LIGHTING AND GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. EXCEPT WHERE OTHERWISE INDICATED, CONTROL CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAYS OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.  
CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES. EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG. AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.
- PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.
- LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.
- TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.
- ALL AIR HANDLING UNITS ARE TO BE INTERCONNECTED TO FIRE ALARM SYSTEM AND WIRED TO SHUT DOWN UPON FIRE ALARM ACTUATION.



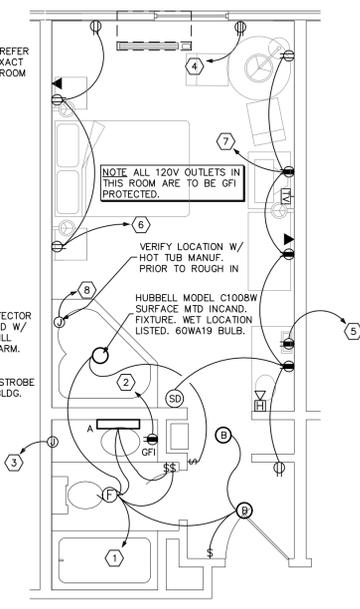
**1 PARTIAL SECOND FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"



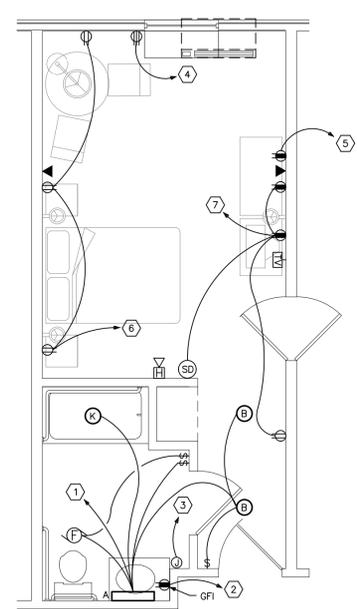
**A**  
**TYPICAL UNIT**



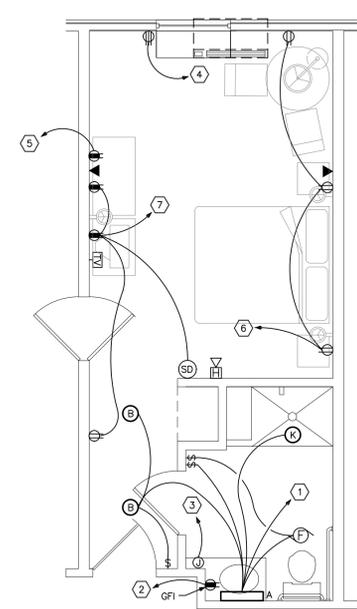
**B**  
**KING UNIT**



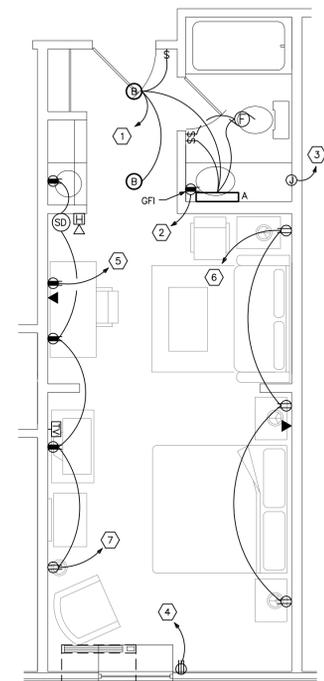
**C**  
**JACUZZI UNIT**



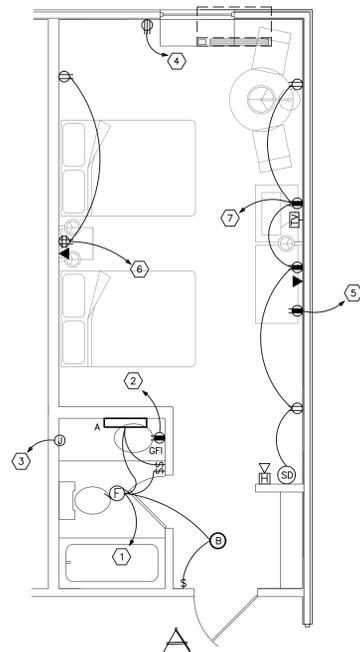
**D**  
**ACCESSIBLE UNIT**



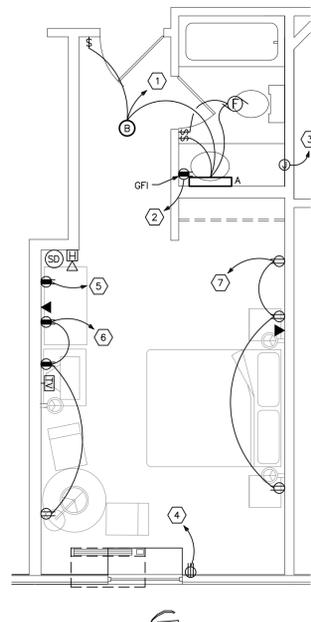
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**ACCESSIBLE UNIT**



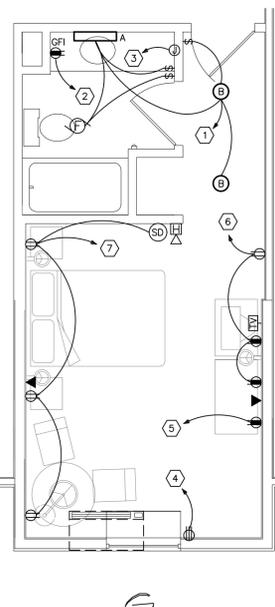
**F**  
**EXEC. KING UNIT**



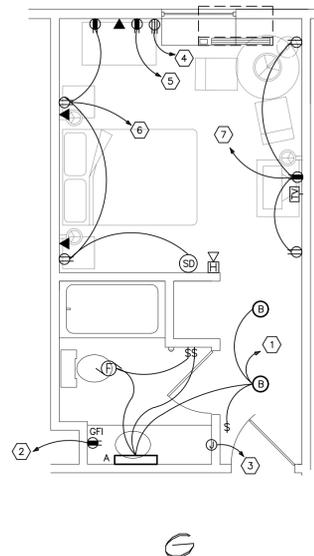
**A**  
**SPECIAL END UNIT**



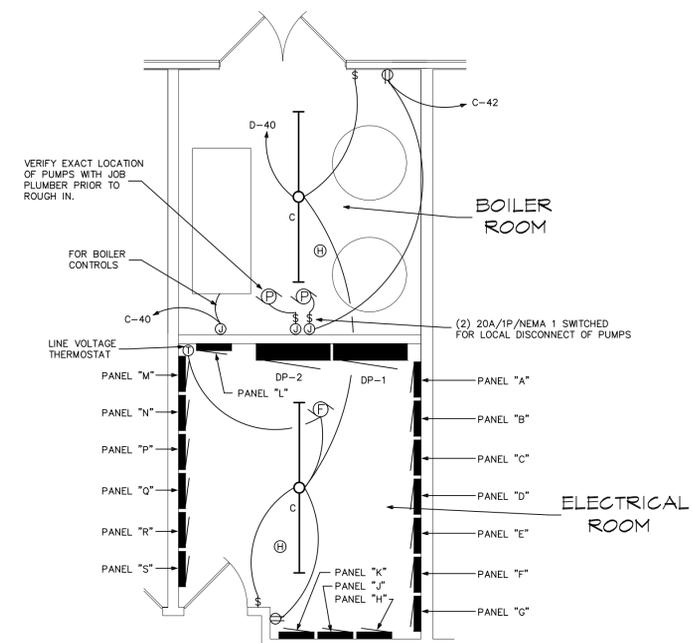
**G**  
**SPECIAL UNIT AT ELEVATOR**



**G**  
**SPECIAL END UNIT**



**G**  
**SPECIAL END UNIT**



**ELECTRIC AND BOILER ROOMS**

**1 ENLARGED ELECTRICAL PLANS**  
SCALE: 1/4"=1'-0"

CIRCUIT BREAKER PANEL SCHEDULE F																						
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 20000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																						
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#					
		COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.							
1	20/1	#12	#12	#12	-	ROOM LIGHTING	900	900	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	2					
3	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	4					
5	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	6					
7	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	8					
9	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	10					
11	15/1	#14	#14	#14	-	RM REFRIG. & MICROWAVE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	12					
13	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	14					
15	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	16					
17	20/1	#12	#12	#12	-	ROOM LIGHTING	900	XXXXXX	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	18					
19	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	20					
21	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	22					
23	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	24					
25	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	26					
27	15/1	#14	#14	#14	-	RM REFRIG. & MICROWAVE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	28					
29	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	30					
31	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	32					
33	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	34					
35	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	36					
37	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	38					
39	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	40					
41	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	42					
TOTALS IN VA							15266	12577	13705	TOTAL NEUTRAL AMPS AT 208 VOLT, THREE PHASE = 63.7 AMPS TOTAL LOAD AMPS AT 208 VOLT, THREE PHASE = 115.4 AMPS												
NOTES :							DATA IS BASED ON COPPER WIRE WITH AN INSULATION TYPE OF NM (RDMEX)															
PRINTED ON PANELS PROGRAM SERIAL NUMBER 94003							41,548															

CIRCUIT BREAKER PANEL SCHEDULE C																						
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 20000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																						
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#					
		COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.							
1	20/1	#12	#12	#12	-	ROOM LIGHTING	900	900	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	2					
3	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	4					
5	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	6					
7	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	8					
9	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	10					
11	15/1	#14	#14	#14	-	RM REFRIG. & MICROWAVE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	12					
13	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	14					
15	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	16					
17	20/1	#12	#12	#12	-	ROOM LIGHTING	900	XXXXXX	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	18					
19	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	20					
21	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	22					
23	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	24					
25	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	26					
27	15/1	#14	#14	#14	-	RM REFRIG. & MICROWAVE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	28					
29	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	30					
31	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	32					
33	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	34					
35	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	36					
37	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	38					
39	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	40					
41	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1862	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	42					
TOTALS IN VA							14986	13085	14611	TOTAL NEUTRAL AMPS AT 208 VOLT, THREE PHASE = 66.8 AMPS TOTAL LOAD AMPS AT 208 VOLT, THREE PHASE = 118.6 AMPS												
NOTES :							DATA IS BASED ON COPPER WIRE WITH AN INSULATION TYPE OF NM (RDMEX)															
PRINTED ON PANELS PROGRAM SERIAL NUMBER 94003							42,682															

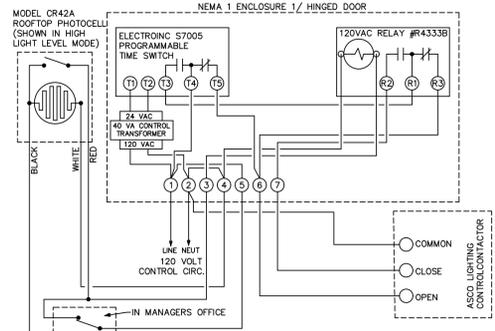
CIRCUIT BREAKER PANEL SCHEDULE A																						
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 20000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																						
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#					
		COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.							
1	20/1	#12	#12	#12	-	ROOM LIGHTING	900	900	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	2					
3	15/1	#14	#14	#14	-	CATV BOARD OUTLET	400	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	4					
5	20/1	#12	#12	#12	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	6					
7	15/1	#14	#14	#14	-	PREP AREA DISHWASHER	1500	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	8					
9	30/2	#10	#10	#10	-	PREP AREA DISPOSAL	900	XXXXXX	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	10					
11	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1250	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	12					
13	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1250	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	14					
15	30/2	#10	#10	#10	-	ROOM PACKAGE A/C UNIT	0	1250	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	16					
17	15/1	#14	#14	#14	-	RECEPTACLES	540	XXXXXX	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	18					
19	20/2	#12	#12	#12	-	LAUNDRY WASHING MACHINE	950	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	20					
21	20/2	#12	#12	#12	-	LAUNDRY WASHING MACHINE	950	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	22					
23	20/2	#12	#12	#12	-	LAUNDRY WASHING MACHINE	950	XXXXXX	XXXXXX	XXXXXX	ROOM LIGHTING	-	#12	#12	#12	20/1	24					
25	20/2	#12	#12	#12	-	LAUNDRY WASHING MACHINE	950	XXXXXX	XXXXXX	XXXXXX	BATHROOM RECEPTACLE	-	#12	#12	#12	20/1	26					
27	20/2	#12	#12	#12	-	LAUNDRY DRYER	540	XXXXXX	XXXXXX	XXXXXX	HAIR DRYER	-	#14	#14	#14	15/1	28					
29	15/1	#14	#14	#14	-	ROOM RECEPTACLES	1080	XXXXXX	XXXXXX	XXXXXX	ROOM PACKAGE A/C UNIT	-	#10	#10	#10	30/2	30					
31	20/2	#12	#12	#12	-	LAUNDRY DRYER	540	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	32					
33	20/2	#12	#12	#12	-	LAUNDRY DRYER	540	XXXXXX	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	34					
35	20/2	#12	#12	#12	-	LAUNDRY DRYER	540	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	36					
37	15/1	#14	#14	#14	-	HAIR DRYER	1080	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	38					
39	30/2	#10	#10	#10	-	LAUNDRY HVAC UNIT	0	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	40					
41	40/2	#8	#10	#10	-	HP#1 AHU	0	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14	#14	15/1	42					
TOTALS IN VA							15146	14459	14612	TOTAL NEUTRAL AMPS AT 208 VOLT, THREE PHASE = 50.9 AMPS TOTAL LOAD AMPS AT 208 VOLT, THREE PHASE = 122.8 AMPS												
NOTES :							DATA IS BASED ON COPPER WIRE WITH AN INSULATION TYPE OF NM (RDMEX)															
PRINTED ON PANELS PROGRAM SERIAL NUMBER 94003							44,217															

CIRCUIT BREAKER PANEL SCHEDULE G																						
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 20000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																						
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#					
		COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.							
1	20/1	#12	#12	#12	-	ROOM LIGHTING	900	900	XXXXXX	XXXXXX	RM REFRIG. & MICROWAVE	-	#14	#14	#14	15/1	2					
3	20/1	#12	#12	#12	-	BATHROOM RECEPTACLE	200	XXXXXX	XXXXXX	XXXXXX	ROOM RECEPTACLES	-	#14	#14								



### DIVERSITY CALCULATIONS

PANEL	RECEPTACLES		LIGHTING		HVAC UNITS (MTR)		WHIRLPOOLS		HAIR DRYERS		MISC	TOTAL
	LOAD	DIVERSIFIED	LOAD	DIVERSIFIED	LOAD	+ 25% LG. MTR.	LOAD	DIVERSIFIED	LOAD	DIVERSIFIED		
"A"	7510	7510	5950	5950	8224	310	-0-	-0-	-0-	-0-	19040	41034 VA 114 A.
"B"	11440	10720	10600	8800	12896	280	-0-	-0-	3600	2376	1620	36692 VA 102A.
"C"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"D"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"E"	8360	8360	3600	1800	18620	280	-0-	-0-	4800	3199	12660	44919 VA 125 A.
"F"	8360	8360	6600	4800	18620	280	-0-	-0-	4800	3199	3532	38791 VA 108 A.
"G"	10000	10000	4500	2250	18620	280	3162	2087	6000	3960	2700	39897 VA 111 A.
"H"	10000	10000	4500	2250	18620	280	3162	2087	6000	3960	2700	39897 VA 111 A.
"J"	11080	10540	5100	3850	18620	280	-0-	-0-	6000	3960	2700	39950 VA 111 A.
"K"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	4700	39810 VA 111 A.
"A1"	200	200	-0-	-0-	18462	600	-0-	-0-	-0-	-0-	-0-	19262 VA 54 A.
POOL	200	200	-0-	-0-	6012	1503	-0-	-0-	-0-	-0-	-0-	7715 VA 21 A.
"L"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"M"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"N"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"P"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	37810 VA 105 A.
"Q"	10000	10000	4500	2250	18620	280	-0-	-0-	6000	3960	2700	39810 VA 111 A.
"R"	8000	8000	3600	1800	31296	600	-0-	-0-	4800	3199	4700	49595 VA 138 A.
"EL"	400	400	200	200	26,928	6732	-0-	-0-	-0-	-0-	-0-	34,260 VA 95 A.
"DP1"	97150	53575	54550	33490	194554	1503	6324	3162	49200	24600	55352	421760 VA 1172 A.
"DP2"	58400	34200	26300	13250	151324	6732	-0-	-0-	34800	22999	18200	246705VA 685 A.



## 2 EXTERIOR LIGHTING CONTROL

NO SCALE

### LIGHTING FIXTURE SCHEDULE

LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	24" VANITY LIGHT	WHITE	ACRYLIC	120	(2) 20W T12	LITHONIA 11827	W/ ELECTRONIC BALLAST
B	SURFACE MTD. FLUORESCENT	WHITE	ACRYLIC	120	(1) 32W FLUOR.	LITHONIA 10921	
C	8' FLUORESCENT STRIP	WHITE		120	(1) 59W T8	LITHONIA C196T8 120	W/ ELECTRONIC BALLAST
D	3' FLUORESCENT STRIP	WHITE		120	(1) 25W T8	LITHONIA C125 120	W/ ELECTRONIC BALLAST
E	8' SURFACE MTD FLUOR	WHITE	ACRYLIC W.A.	120	(4) F40RS/WW	METALUX 8T0PF-240A-LE3	
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA F2E 5 W 2 R 120 ELN	
F	4' FLUORESCENT STRIP	WHITE		120	(1) 32W T8	LITHONIA C132 120	
G	SURFACE MTD. FLUORESCENT	WHITE	PRISMATIC	120	(2) 32W T8	LITHONIA 25C 2 32 120	W/ ELECTRONIC BALLAST
H	RECESSED FLUORESCENT CAN	WHITE		120	(1) 26W	LITHONIA AFV 26DTT 6AR 120	
J	HID CANOPY DOWN LIGHT	BRONZE	GLASS	120	(1) 150W HPS	LITHONIA LGH 150S 125B CHL 120	
K	RECESSED FLUORESCENT CAN	WHITE		120	(1) 26W	LITHONIA AF 1 26DTT 6AR 120	DAMP LOCATION LISTED

### CIRCUIT BREAKER PANEL SCHEDULE DP1

1200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 1200A. M.C.B., 65000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE

BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.
	COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.	
1					PANELBOARD 'A'	4777	15146	XXXXXX	XXXXXX						2
3	125/3	#1	#1	#6	1-1/2	7644	13566	XXXXXX	XXXXXX	PANELBOARD 'F'	1-1/2	#6	#1	#1	125/3
5						4777	XXXXXX	XXXXXX	XXXXXX						4
7						7644	XXXXXX	XXXXXX	XXXXXX						6
9	125/3	#1	#1	#6	1-1/2	9887	15928	XXXXXX	XXXXXX	PANELBOARD 'G'	1-1/2	#6	#1	#1	125/3
11						8787	16446	XXXXXX	XXXXXX						8
13						9887	XXXXXX	XXXXXX	XXXXXX						10
15	125/3	#1	#1	#6	1-1/2	8787	14986	XXXXXX	XXXXXX	PANELBOARD 'C'	1-1/2	#6	#1	#1	125/3
17						8022	XXXXXX	XXXXXX	XXXXXX						12
19						8787	XXXXXX	XXXXXX	XXXXXX						14
21	125/3	#1	#1	#6	1-1/2	8022	XXXXXX	XXXXXX	XXXXXX	PANELBOARD 'H'	1-1/2	#6	#1	#1	125/3
23						8787	XXXXXX	XXXXXX	XXXXXX						16
25						8022	XXXXXX	XXXXXX	XXXXXX						18
27	150/3	#1/0	#1/0	#6	1-1/2	7990	14986	XXXXXX	XXXXXX	PANELBOARD 'D'	1-1/2	#6	#1	#1	125/3
29						8627	14986	XXXXXX	XXXXXX						20
31						8627	XXXXXX	XXXXXX	XXXXXX	PANELBOARD 'J'	1-1/2	#6	#1	#1	125/3
33						8627	XXXXXX	XXXXXX	XXXXXX						22
35						8627	XXXXXX	XXXXXX	XXXXXX						24
37						8140	16065	XXXXXX	XXXXXX	PANELBOARD 'K'	1-1/2	#6	#1	#1	125/3
39						8400	14986	XXXXXX	XXXXXX						26
41						8400	XXXXXX	XXXXXX	XXXXXX						28
						0	0	XXXXXX	XXXXXX	SPACE					30
						988	8339	XXXXXX	XXXXXX	PANELBOARD 'A1'	1	#8	#8	#3	100/2
						928	XXXXXX	XXXXXX	XXXXXX						34
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					36
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					38
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					40
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					42

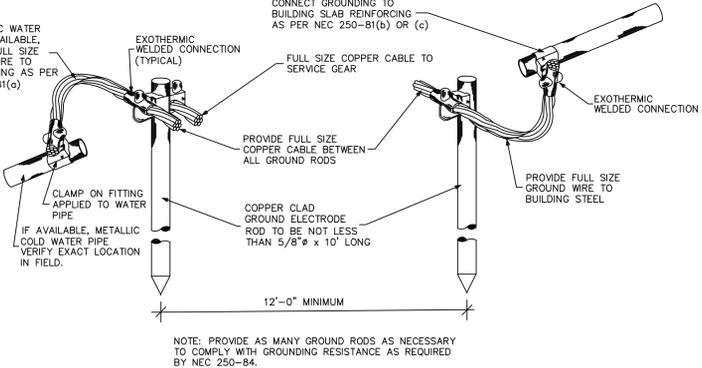
NOTES: DATA IS BASED ON COPPER WIRE WITH AN INSULATION TYPE OF THWN. TOTALS IN VA: 161723, 147775, 148592. TOTAL NEUTRAL AMPS AT 208 VOLT, THREE PHASE = 673.2 AMPS. TOTAL LOAD AMPS AT 208 VOLT, THREE PHASE = 1,272.5 AMPS. PRINTED ON PANELS PROGRAM SERIAL NUMBER 94003

### CIRCUIT BREAKER PANEL SCHEDULE DP2

800 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 800A. M.C.B., 42000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE

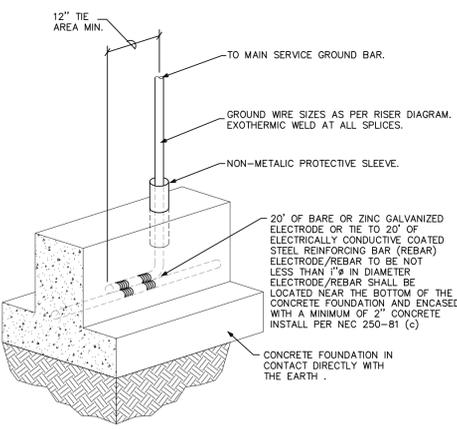
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.
	COND.	NEUTRAL	GND	C.							C.	GND	NEUTRAL	COND.	
1					PANELBOARD 'L'	7733	14986	XXXXXX	XXXXXX						2
3	125/3	#1	#1	#6	1-1/2	8400	14986	XXXXXX	XXXXXX	PANELBOARD 'O'	1-1/2	#6	#1	#1	125/3
5						7733	XXXXXX	XXXXXX	XXXXXX						4
7						8400	XXXXXX	XXXXXX	XXXXXX						6
9	125/3	#1	#1	#6	1-1/2	7733	14986	XXXXXX	XXXXXX	PANELBOARD 'M'	1-1/2	#6	#1	#1	125/3
11						7733	XXXXXX	XXXXXX	XXXXXX						8
13						7733	XXXXXX	XXXXXX	XXXXXX						10
15	125/3	#1	#1	#6	1-1/2	7733	14986	XXXXXX	XXXXXX	PANELBOARD 'N'	1-1/2	#6	#1	#1	125/3
17						7733	XXXXXX	XXXXXX	XXXXXX						12
19						7733	XXXXXX	XXXXXX	XXXXXX						14
21	125/3	#1	#1	#6	1-1/2	7733	14986	XXXXXX	XXXXXX	PANELBOARD 'P'	1-1/2	#6	#1	#1	125/3
23						7733	XXXXXX	XXXXXX	XXXXXX						16
25						0	XXXXXX	XXXXXX	XXXXXX	SPACE					18
27						0	XXXXXX	XXXXXX	XXXXXX	SPACE					20
29						0	XXXXXX	XXXXXX	XXXXXX	SPACE					22
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					24
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					26
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					28
						0	XXXXXX	XXXXXX	XXXXXX	SPACE					30

NOTES: DATA IS BASED ON COPPER WIRE WITH AN INSULATION TYPE OF THWN. TOTALS IN VA: 104043, 91697, 102654. TOTAL NEUTRAL AMPS AT 208 VOLT, THREE PHASE = 393.9 AMPS. TOTAL LOAD AMPS AT 208 VOLT, THREE PHASE = 827.2 AMPS. PRINTED ON PANELS PROGRAM SERIAL NUMBER 94003



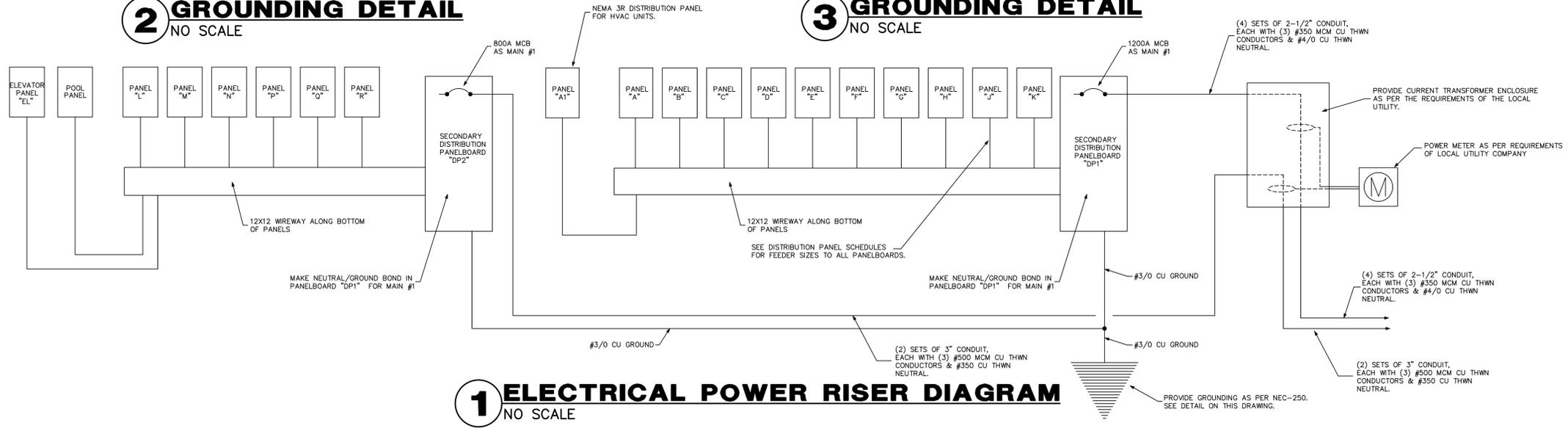
## 2 GROUNDING DETAIL

NO SCALE



## 3 GROUNDING DETAIL

NO SCALE



## 1 ELECTRICAL POWER RISER DIAGRAM

NO SCALE