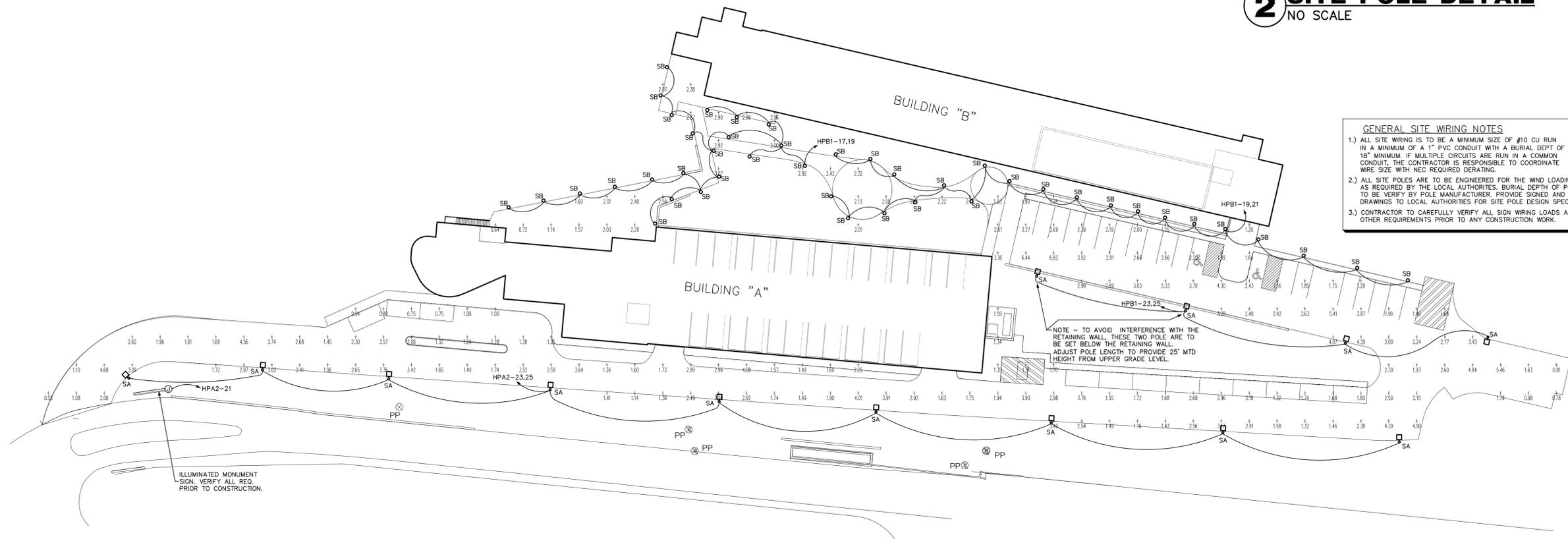


**2 SITE POLE DETAIL**  
NO SCALE

**GENERAL SITE WIRING NOTES**

- 1.) ALL SITE WIRING IS TO BE A MINIMUM SIZE OF #10 CU RUN IN A MINIMUM OF A 1" PVC CONDUIT WITH A BURIAL DEPT OF 18" MINIMUM. IF MULTIPLE CIRCUITS ARE RUN IN A COMMON CONDUIT, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WIRE SIZE WITH NEC REQUIRED DERATING.
- 2.) ALL SITE POLES ARE TO BE ENGINEERED FOR THE WIND LOADING AS REQUIRED BY THE LOCAL AUTHORITIES. BURIAL DEPTH OF POLES TO BE VERIFY BY POLE MANUFACTURER. PROVIDE SIGNED AND SEALED DRAWINGS TO LOCAL AUTHORITIES FOR SITE POLE DESIGN SPECIFICS.
- 3.) CONTRACTOR TO CAREFULLY VERIFY ALL SIGN WIRING LOADS AND OTHER REQUIREMENTS PRIOR TO ANY CONSTRUCTION WORK.



ILLUMINATED MONUMENT SIGN. VERIFY ALL REQ. PRIOR TO CONSTRUCTION.

DESCRIPTION	QTY	UNIT	PRICE	TOTAL
ILLUMINATED MONUMENT SIGN	1	EA	1500	1500

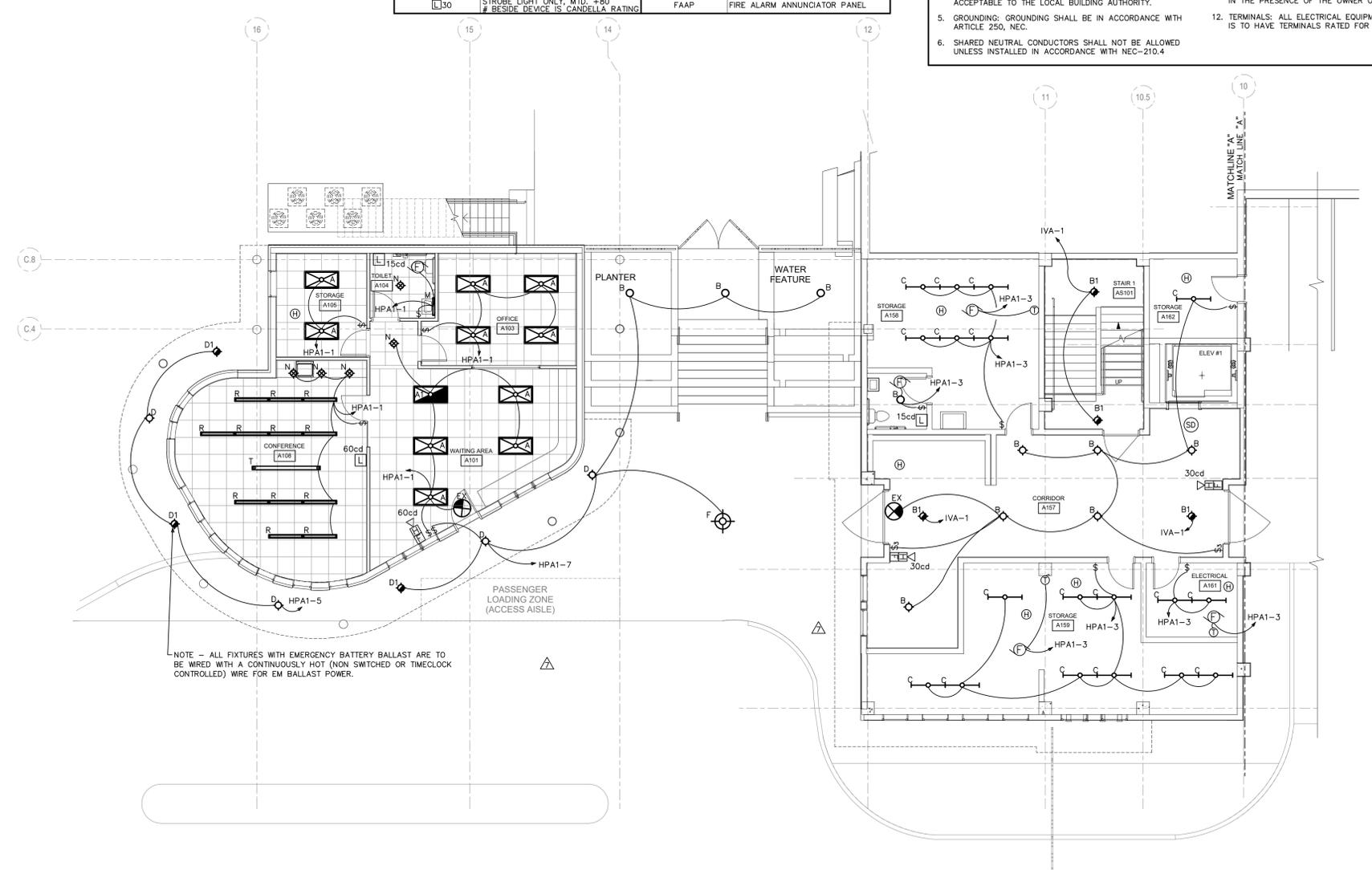
ITEM	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
SA	250W MH	1	EA	2000	2000
SB	70W MH	1	EA	680	680

**1 SITE PHOTOMETRICS AND SITE LIGHTING ELECTRICAL**  
SCALE: 1"=30'-0"

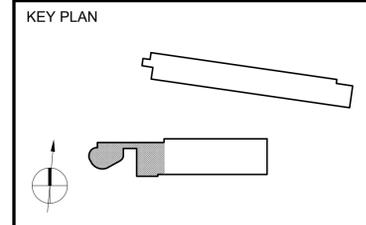


ELECTRICAL SYMBOLS LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLER RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN; M-MOTOR; P-PUMP
	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD +47"		CKT. HOMERUN (B INDICATES PANEL) "2" DESIGNATES CIRCUIT NUMBER
	MANUAL STARTER SWITCH		EXIT SIGN; ONE SIDED, OR TWO SIDED
	DIMMER SWITCH, MTD +47"		EMERGENCY LIGHTING
	SWITCH W/ ILLUM. WHEN ON +47"		RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	THREE-WAY SWITCH W/ OCCU SENSOR WHEN ON +47"		RECESSED MOUNTED NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	SWITCH W/ OCCU SENSOR. WHEN ON +47"		WALL MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		WALL MOUNTED NIGHT LIGHTING B DESIGNATES FIXTURE TYPE
	TELEPHONE / DATA OUTLET +18"		PENDANT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		FLUORESCENT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH		FLUORESCENT STRIP LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	FLR. MTD. FLUSH QUAD. RECEPTACLE		ISOLATED GROUND
	FLR. MTD. FLUSH PHONE/DATA OUTLET		WEATHER-PROOF
	FLR. MTD. FLUSH COMPUTER OUTLET		BELOW COUNTER
	AREA SMOKE DETECTOR		TIME CLOCK - 24 HOUR
	HEAT DETECTOR		GROUND FAULT INTERRUPTER
	DUCT SMOKE DETECTOR		ABOVE FINISHED FLOOR
	FIRE ALARM MAN. PULL STATION +47"		ELECTRIC WATER COOLER
	HORN WITH STROBE LIGHT, MTD. +80" # BE SIDE DEVICE IS CANDELLA RATING		FIRE ALARM CONTROL PANEL
	STROBE LIGHT ONLY, MTD. +80" # BE SIDE DEVICE IS CANDELLA RATING		FIRE ALARM ANNUNCIATOR PANEL

- 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.  
UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY. SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.
  - 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.
  - SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4
  - CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. 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-80-PVC (SCHEDULE 80).  
ALL ARMOR CLAD CABLE (AC CABLE) WRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
  - CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPICES EXCEPT WITHIN WIREWAY 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 SPICES, 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 SPICES USED ON CONDUCTORS #10 AWG. AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPICES 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 SPICES 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.
  - TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.



(LOWER BUILDING)  
**1 A - LEVEL 1 PARTIAL FLOOR PLAN - LIGHTING**  
 SCALE: 1/8"=1'-0"



ISSUE

PANEL SCHEDULE HPA2															
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH 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.							KEYS	C.	GND	NEUTRAL	
1						0	1314								
3	20/3	#12	---	#12 1/2	CHAL		1482			CONDENSING UNIT - 6				25/2	
5						0	1482			CONDENSING UNIT - 7				4	
7	20/2	#12	---	#12 1/2	CHAL		343			AHU-6				20/2	
9						0	333			AHU-7				8	
11	20/2	#12	---	#12 1/2	CHAL		1272			CONDENSING UNIT - 9				10	
13						0	988			CONDENSING UNIT - 8				12	
15						0	1272			CONDENSING UNIT - 9				14	
17	20/2	#12	---	#12 1/2	CHAL		427			AHU-8				16	
19						0	156			AHU-9				18	
21	20/1	#10	#10	1	CHAL		998			(2) RECIRC PUMPS				20	
23	20/1	#10	#10	1	CHAL		600			PHONE BACKBOARD OUTLET				22	
25	20/2	#10	---	#10 1	CHAL		180			GATE OPERATOR				24	
27						0	1123			HALLWAY EM LTG INVERTER				26	
29						0	1475			SPACE				28	
						0	1500			SPACE				30	

WIRE/CONDUIT KEY: 1234  
 WIRING TYPE: C-CU WIRE  
 INSULATION: H-TWLN  
 CONDUIT TYPE: H-EMT  
 TEMP RATING: L-78-86 Deg. F.  
 9705 5774 7088  
 PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001  
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL HPA2 DIVERSIFICATION CALCULATIONS	
RECEPTACLES (1) - 180 VA TOTAL	180
FIRST 10 KVA AT 100% - 180	180
REMAINDER AT 50% - 180	180
LIGHTING - 4450 X 125% - 5563	5563
HVAC LOAD AT 100% - 15215	15215
MOTOR LOADS AT 100% - 2121	2121
PLUS 25% OF THE LARGEST MOTOR - 986	986
MISC CONTINUOUS LOADS AT 125% - 750	750
600 X 1.25 - 750	750
TOTAL DIVERSIFIED PANEL LOAD	24815
LOAD AT 120/208V/3-PHASE/4-WIRE	68.9A

PANEL HPA1 DIVERSIFICATION CALCULATIONS	
RECEPTACLES (70) - 12600 VA TOTAL	10000
FIRST 10 KVA AT 100% - 10000	10000
REMAINDER AT 50% - 1210	1210
LIGHTING - 11994 X 125% - 14993	14993
HVAC LOAD AT 100% - 3078	3078
PLUS 25% OF THE LARGEST MOTOR - 213	213
MISC NON-CONTINUOUS LOADS AT 100% - 10196	10196
600 X 1.25 - 750	750
TOTAL DIVERSIFIED PANEL LOAD	39780
LOAD AT 120/208V/3-PHASE/4-WIRE	110.5A

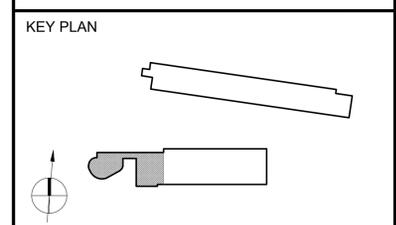
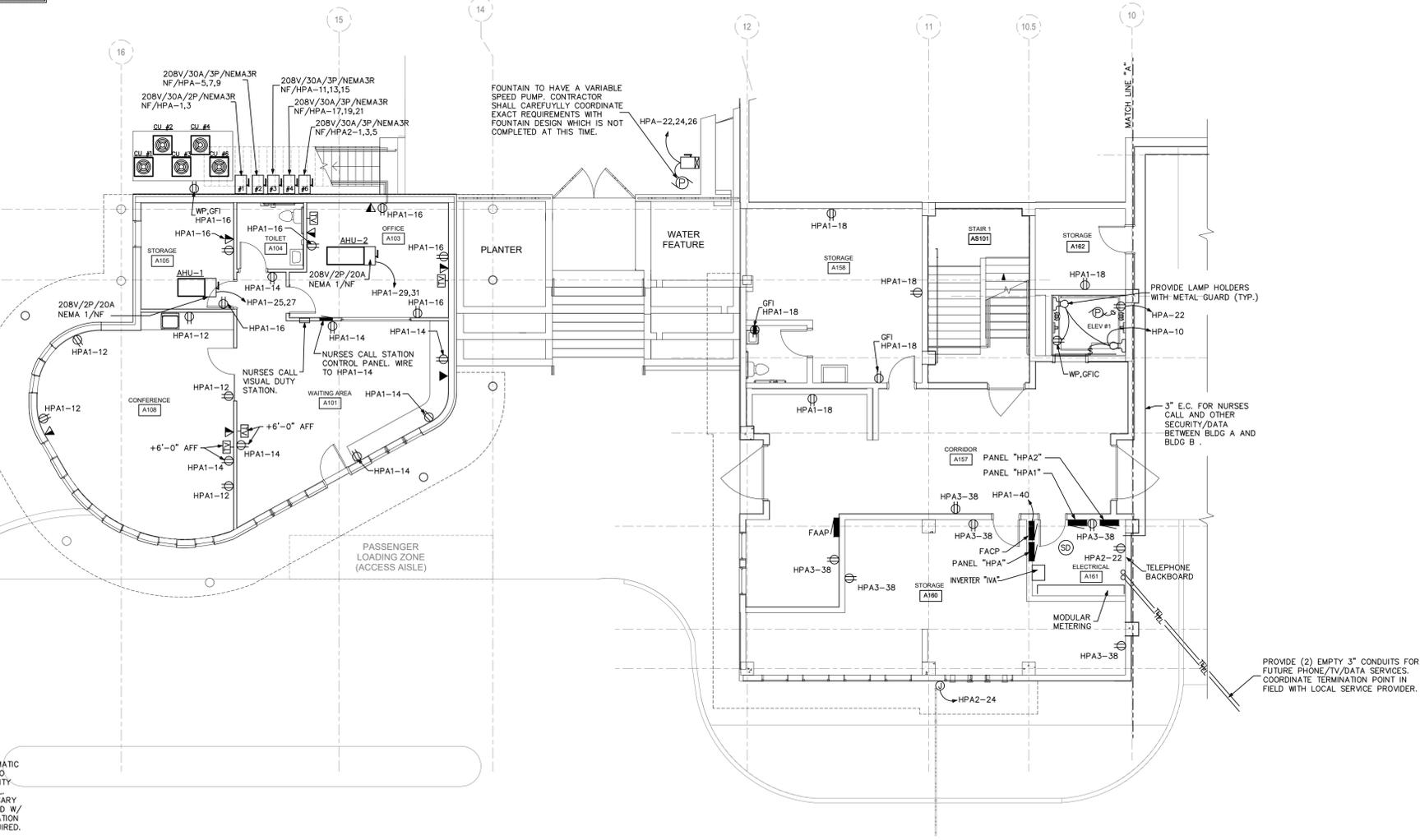
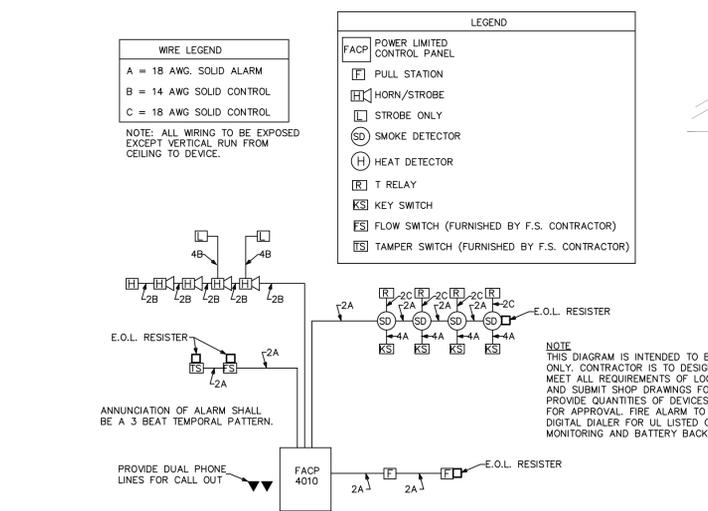
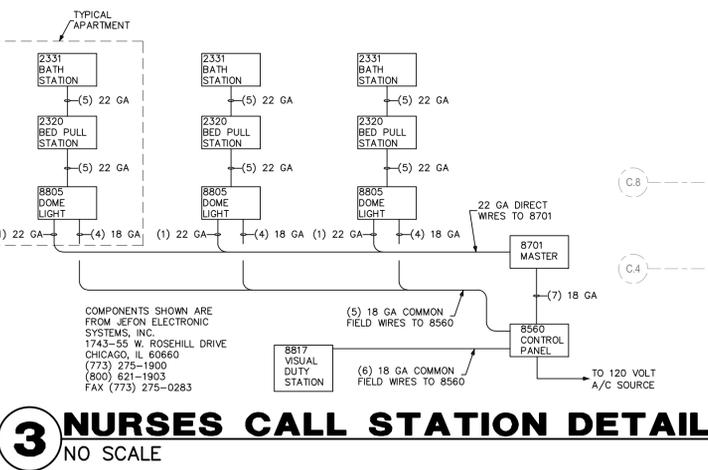
PANEL HPA DIVERSIFICATION CALCULATIONS	
RECEPTACLES (69) - 12420 VA TOTAL	10000
FIRST 10 KVA AT 100% - 10000	10000
REMAINDER AT 50% - 1210	1210
LIGHTING - 11794 X 125% - 14743	14743
HVAC LOAD AT 100% - 33179	33179
PLUS 25% OF THE LARGEST MOTOR - 17882	17882
MISC NON-CONTINUOUS LOADS AT 100% - 37999	37999
600 X 1.25 - 750	750
TOTAL DIVERSIFIED PANEL LOAD	117363
LOAD AT 120/208V/3-PHASE/4-WIRE	326.0A

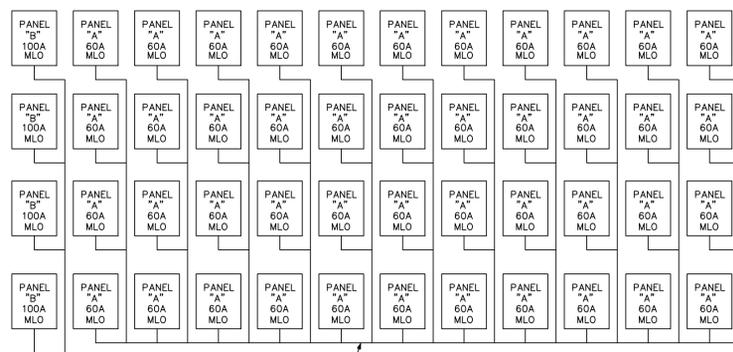
PANEL SCHEDULE HPA1															
125 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE															
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.
	COND.	NEUTRAL	GND	C.							KEYS	C.	GND	NEUTRAL	
1	20/1	#12	#12	1/2	RB-L		1420			OFFICE AREA LIGHTING				2	
3	20/1	#12	#12	1/2	RB-L		1216			RECEPT. A350				4	
5	20/1	#12	#12	1/2	RB-L		1080			RECEPT. A350/351				6	
7	20/1	#12	#12	1/2	RB-L		500			EXTERIOR LIGHTS *				8	
9	20/1	#12	#12	1/2	RB-L		1260			COMPUTERS A-351				10	
11	20/1	#12	#12	1/2	RB-L		850			ENTRY LIGHTS				12	
13	20/1	#12	#12	1/2	RB-L		1500			PARKING LIGHTS *				14	
15	20/1	#12	#12	1/2	RB-L		1500			WASHER				16	
17	20/1	#12	#12	1/2	RB-L		920			RECEPT. CNF. A108				18	
19	20/1	#12	#12	1/2	RB-L		1500			RECEPT. A101, A102				20	
21	20/1	#12	#12	1/2	RB-L		1500			RECEPT. A103, A105				22	
23	20/1	#12	#12	1/2	RB-L		1440			RECEPT. A103, A105				24	
25	20/1	#12	#12	1/2	RB-L		1440			RECEPT. A103, A105				26	
27	20/1	#12	#12	1/2	RB-L		900			RECEPT. A103, A105				28	
29	20/1	#12	#12	1/2	RB-L		1440			RECEPT. A103, A105				30	
31	20/1	#12	#12	1/2	RB-L		1440			RECEPT. A103, A105				32	
33	20/1	#12	#12	1/2	RB-L		1440			RECEPT. A103, A105				34	
35	20/1	#12	#12	1/2	RB-L		900			RECEPT. A103, A105				36	
37	20/1	#12	#12	1/2	RB-L		500			REFRIGERATOR				38	
39	20/1	#12	#12	1/2	RB-L		427			RECEPTACLES				40	
41	20/1	#12	#12	1/2	RB-L		100			FIRE ALARM CONTROL PANEL				42	
						0	800			GENERATOR BATTERY CHARGER				44	

WIRE/CONDUIT KEY: 1234  
 WIRING TYPE: H-DMEX  
 INSULATION: B-UF  
 CONDUIT TYPE: H-EMT  
 TEMP RATING: L-78-86 Deg. F.  
 12155 13735 11980  
 PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001  
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

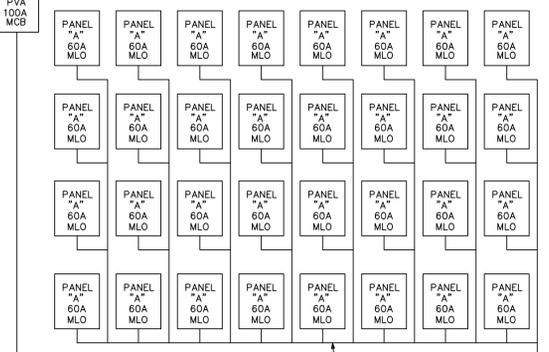
PANEL SCHEDULE HPA															
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 400A. M.C.B., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE															
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.
	COND.	NEUTRAL	GND	C.							KEYS	C.	GND	NEUTRAL	
1	25/2	#12	---	#12 1/2	CHAL		1508			CONDENSING UNIT - 1				2	
3						0	4200			ELEVATOR				4	
5						0	1508			ELEVATOR				6	
7	20/3	#12	---	#12 1/2	CHAL		1302			CONDENSING UNIT - 2				8	
9						0	4200			ELEVATOR CAB LIGHTS/FAN				10	
11						0	1302			ELEVATOR PIT LTG/RECEPT				12	
13	20/3	#12	---	#12 1/2	CHAL		1272			CONDENSING UNIT - 3				14	
15						0	2250			WATER HEATER				16	
17						0	1272			ELEVATOR TOWER EF				18	
19	20/3	#12	---	#12 1/2	CHAL		1123			CONDENSING UNIT - 4				20	
21						0	280			ELEVATOR SERV LTG/RECEPT				22	
23						0	666			ELEVATOR SUMP PUMP				24	
25						0	1272			SPACE				26	
27						0	1272			SPACE				28	
29						0	1272			SPACE				30	
31	30/2	#10	---	#10 1/2	CHAL		11042			DRYER				32	
33						0	12311			DRYER				34	
35	30/2	#10	---	#10 1/2	CHAL		11898			DRYER				36	
37						0	9510			PANELLBOARD "HPA1"				38	
39	30/2	#10	---	#10 1/2	CHAL		3000			DRYER				40	
41						0	8742			PANELLBOARD "HPA2"				42	
						0	180			DRYER				44	

WIRE/CONDUIT KEY: 1234  
 WIRING TYPE: C-CU WIRE  
 INSULATION: H-TWLN  
 CONDUIT TYPE: H-EMT  
 TEMP RATING: L-78-86 Deg. F.  
 40295 37898 34284  
 PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001  
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS



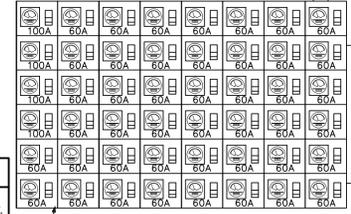


PANEL SCHEDULE GEN																	
800 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 800A, M.C.B., 22000 AMPS MINIMUM A.I.C., BRACING, SURFACE MOUNTED, TYPE NEMA 3R ENCLOSURE																	
#	BKR.	COND.	NEUTRAL	CON.	C.	KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	KEYS	C.	CON.	BKR.	#
1		2 SETS	#3/0	#1/0	#2		CHAL PANELBOARD 'HPA'	15208	40011	0	32760						2
3	400/3	#3/0	#1/0	#2			100 HP FIRE PUMP	13381	0	36656	32760		***	CHAL	3	#2	---
5		2 SETS	#3/0	#1/0	#2		CHAL PANELBOARD 'HPB'	9790	0	34603	32760						6
7		2 SETS	#3/0	#1/0	#2			8292	36797	0							8
9	400/3	#3/0	#1/0	#2				7603	0	33818	0						10
11		2 SETS	#3/0	#1/0	#2			7265	0	33230	0						12



TYPICAL FEEDER TO 2 BEDROOM UNITS (PANEL "B") TO BE (3) #4 THWN CU CONDUCTORS AND (1) #8 CU GROUND, ALL IN A 1" SCH 40 PVC CONDUIT.

TYPICAL FEEDER TO 1 BEDROOM UNITS (PANEL "A") TO BE (3) #6 THWN CU CONDUCTORS AND (1) #10 CU GROUND, ALL IN A 3/4" SCH 40 PVC CONDUIT.



225 KVA, 120/208V/3ø/4W STANDBY GENERATOR TO BE EQUAL TO A GENERAC S0225. PROVIDE OPTIONAL DOUBLE WALLED BELLY TANK WITH ALARM, CRITICAL QUIET MUFFLER, RADIATOR DUCT ADAPTER, AND LOCKABLE WEATHERPROOF ENCLOSURE. THE TWO 400A AUTOMATIC TRANSFER SWITCHES FOR THE HOUSE PANELS ARE TO BE PROVIDED WITH NEMA 3R LOCKABLE ENCLOSURES.

PROVIDE CT METERING FOR ALL HOUSE LOADS AND FIRE PUMP FEEDER. COORDINATE WITH WAPA

NEMA 3R RATED PANEL TO BE ATTACHED TO 225 KVA GENSET AND SERVE AS GENERATOR DISCONNECT AND O.C. PROTECTION.

NEW 750 KVA WAPA SERVICE TRANSFORMER WITH A 120/208V/3ø/4W SECONDARY. NEC CALCULATED TOTAL LOAD ON TRANSFORMER IS 588 KVA FOR BUILDING LOADS AND 686 KVA INCLUDING THE 100 HP FIRE PUMP.

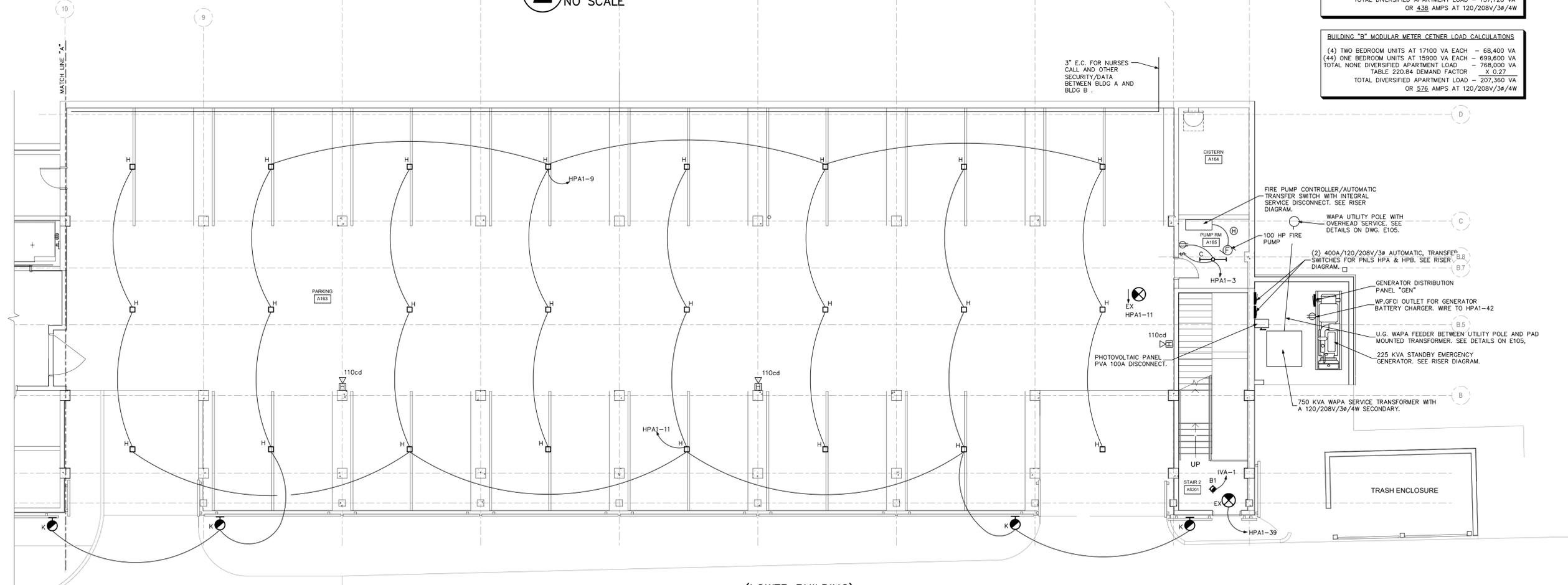
MODULAR METER CENTER WITH A 120/208V/3ø/4W BUS AND 120/208V/1ø METER SOCKETS. SQUARE D OR EQUAL.

- ELECTRICAL RISER WIRE SIZE KEY NOTES**
- ① (4) #3 THWN CU COND. AND (1) #8 CU GROUND, ALL IN A 1-1/4" CONDUIT.
  - ② (4) #3 THWN CU COND. AND (1) #8 CU GROUND, ALL IN A 1-1/4" CONDUIT.
  - ③ #1/0 CU GROUND
  - ④ (2) 2-1/2" CONDUITS, EACH WITH (4) #250 MCM THWN CU CONDUCTORS
  - ⑤ (2) 2-1/2" CONDUITS, EACH WITH (4) #350 MCM THWN CU CONDUCTORS
  - ⑥ #2/0 CU GROUND
  - ⑦ (3) #500 MCM THWN CU CONDUCTORS AND (1) #1/0 CU GROUND, ALL IN A 3" C.
  - ⑧ (2) 2" CONDUITS, EACH WITH (4) #3/0 THWN CU CONDUCTORS
  - ⑨ (3) #500 MCM THWN CU CONDUCTORS AND (1) #1/0 CU NEUTRAL, ALL IN A 3" CONDUIT.
  - ⑩ (2) 2" CONDUITS, EACH WITH (3) #3/0 THWN CU CONDUCTORS, (1) #1/0 THWN CU NEUTRAL & (1) #1/0 CU GROUND.
  - ⑪ (2) 2" CONDUITS, EACH WITH (3) #3/0 THWN CU CONDUCTORS, (1) #2/0 THWN CU NEUTRAL & (1) #1/0 CU GROUND.
  - ⑫ #2 CU GROUND
  - ⑬ (4) #4/0 THWN CU CONDUCTORS AND (1) #4 CU GROUND, ALL IN A 2-1/2" CONDUIT.
  - ⑭ (4) #2 THWN CU CONDUCTORS AND (1) #6 CU GROUND, ALL IN A 1-1/2" CONDUIT.
  - ⑮ TAP OFF OF WAPA SERVICE FEEDER AT TRANSFER SWITCH FOR SOLAR PANELS.

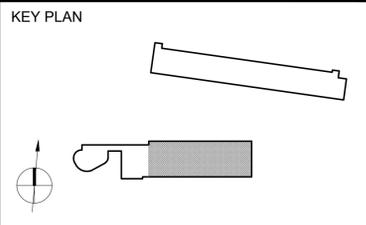
**2 ELECTRICAL SERVICE RISER DIAGRAM**  
NO SCALE

**BUILDING "A" MODULAR METER CENTER LOAD CALCULATIONS**  
(32) ONE BEDROOM UNITS AT 15900 VA EACH - 508,800 VA  
TABLE 220.84 DEMAND FACTOR X 0.31  
TOTAL DIVERSIFIED APARTMENT LOAD - 157,728 VA  
OR 438 AMPS AT 120/208V/3ø/4W

**BUILDING "B" MODULAR METER CENTER LOAD CALCULATIONS**  
(4) TWO BEDROOM UNITS AT 17100 VA EACH - 68,400 VA  
(44) ONE BEDROOM UNITS AT 15900 VA EACH - 699,600 VA  
TOTAL NONE DIVERSIFIED APARTMENT LOAD - 768,000 VA  
TABLE 220.84 DEMAND FACTOR X 0.27  
TOTAL DIVERSIFIED APARTMENT LOAD - 207,360 VA  
OR 576 AMPS AT 120/208V/3ø/4W



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



**ISSUE**

**ELECTRICAL NOTES:**

1. 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.

UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY. SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.

2. 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.

3. 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.

4. 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.

5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.

6. SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4

7. CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. 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-80-PVC (SCHEDULE 80).

ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.

8. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY 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.

9. 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.

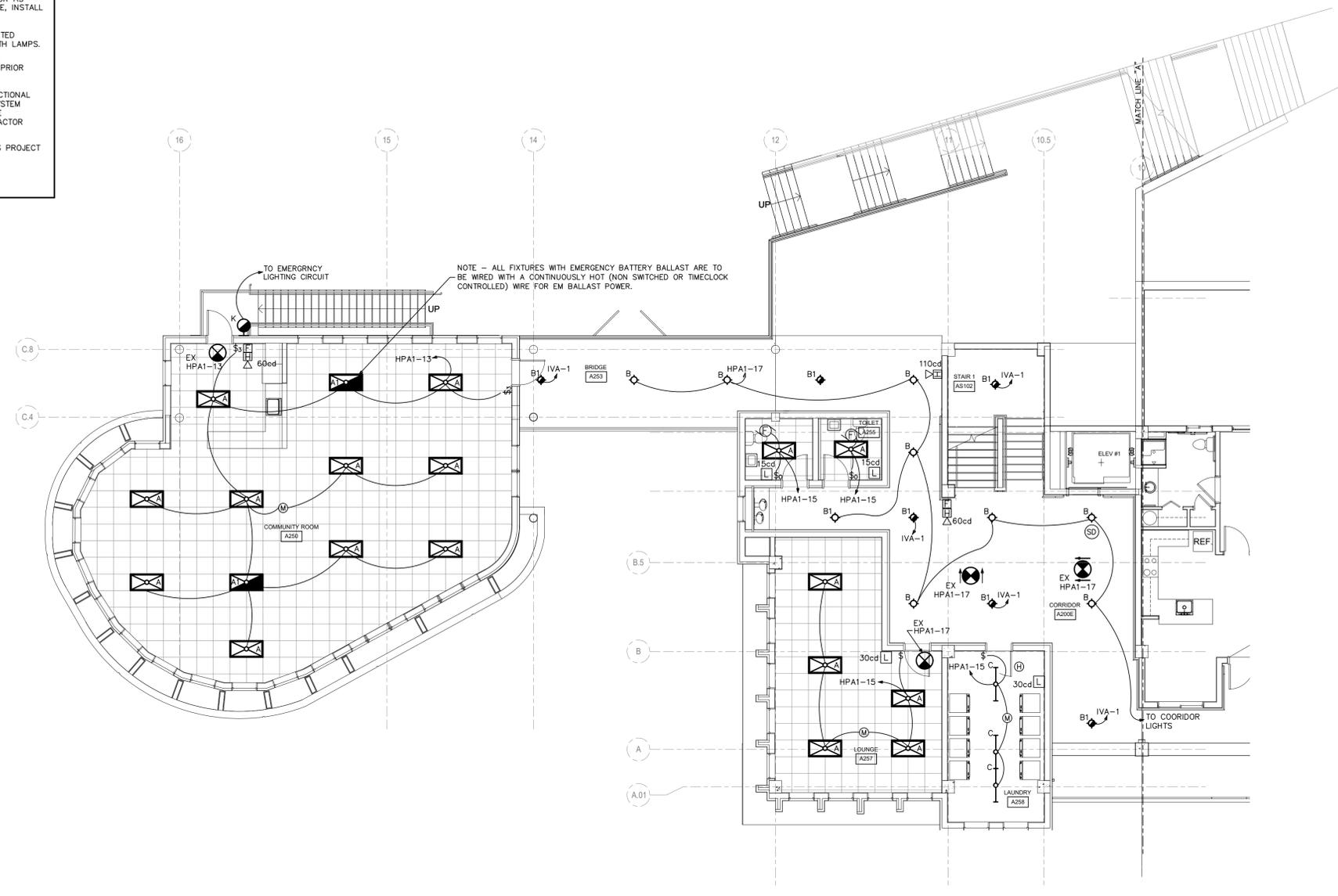
10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.

11. 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.

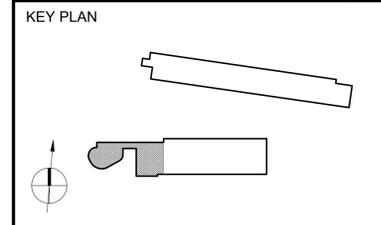
12. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

**LIGHTING FIXTURE SCHEDULE**

LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	2x4 2 GRID MOUNTED	WHITE	PRISMATIC	120	(2) F32T8	LITHONIA 2x4 2 32 A121255 MVOLT GEB101S	ELECTRONIC BALLAST, UL LISTED
A1	2x4 2 GRID MOUNTED	WHITE	PRISMATIC	120	(2) F32T8	LITHONIA 2x4 2 32 A121255 MVOLT EL14	ELECTRONIC BALLAST, BATTERY BACK-UP, UL LISTED
B	12" SURFACE DOWNLIGHT			120	(2) 13D TT	LITHONIA CF212 2/13D TT 84A MVOLT DWHG	ELECTRONIC BALLAST, UL LISTED
B1	12" SURFACE DOWNLIGHT			120	(2) 13D TT	LITHONIA CF212 2/13D TT 84A MVOLT DWHG	ELECTRONIC BALLAST, WIRE TO STANDBY INVERTER FOR POWER
C	4' STRIP LIGHT			120	(2) F32T8	LITHONIA C232 MV	NEMA PREMIUM, INSTANT START BALLAST, UL LISTED
D	8" RECESSED DOWNLIGHT		WHITE SPLAY	120	1/26 TRT	LITHONIA 8HF 1/26-26 TRT F8LS73 MVOLT	ELECTRONIC BALLAST, UL LISTED
D1	8" RECESSED DOWNLIGHT		WHITE SPLAY	120	1/26 TRT	LITHONIA 8HF 1/26-26 TRT F8LS73 MVOLT EL	ELECTRONIC BALLAST, WITH EMERGENCY BACK-UP, UL LISTED
F	SUSPENDED DOWNLIGHT			120	1/26 TRT	SPECTRUM PN2015CF 26 EX GJ2 WL SP20 GB	ELECTRONIC BALLAST, WITH EMERGENCY BACK-UP, UL LISTED
H	SURFACE MTD GARAGE LIGHT		TAMPARED GLASS	120	100W MH	LITHONIA KPS 100M R3 120 SF LP1	PULSE START, UL LISTED
K	MINI WALL PACK	DARK BRONZE	CLEAR	120	26D TT	LITHONIA TWA 26D TT 120 PE LP1	ELECTRONIC BALLAST, UL LISTED, WET LOCATION
L	CEILING/WALL BRACKET	WHITE	CLEAR	120	32W T8	LITHONIA WC 2 32 120 MVOLT EL	ELECTRONIC BALLAST, UL LISTED
M	FLUORESCENT WALL LIGHT	WHITE	PRISMATIC	120	(2) 17W T8	LITHONIA WC-217-A12-120	
EX	LED EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA EXR LED M6	W/90 MINUTE BATTERY BACK-UP
N	8" RECESSED DOWN LIGHT	WHITE		120	2/26 TRT	LITHONIA AF-2/26 TRT-BAR-120	
R	4' DROPPED LINEAR FIXTURE	WHITE		120	(2) 32W T8	LITHONIA MRM4-232-FT4-120	W/12" DROPPED T-BAR MOUNTING
T	8' X 6' W REC LINEAR FLUOR.	WHITE	PARABOLIC	120	(4) 32W T8	LITHONIA 6NATG232-152-W-MVOLT	

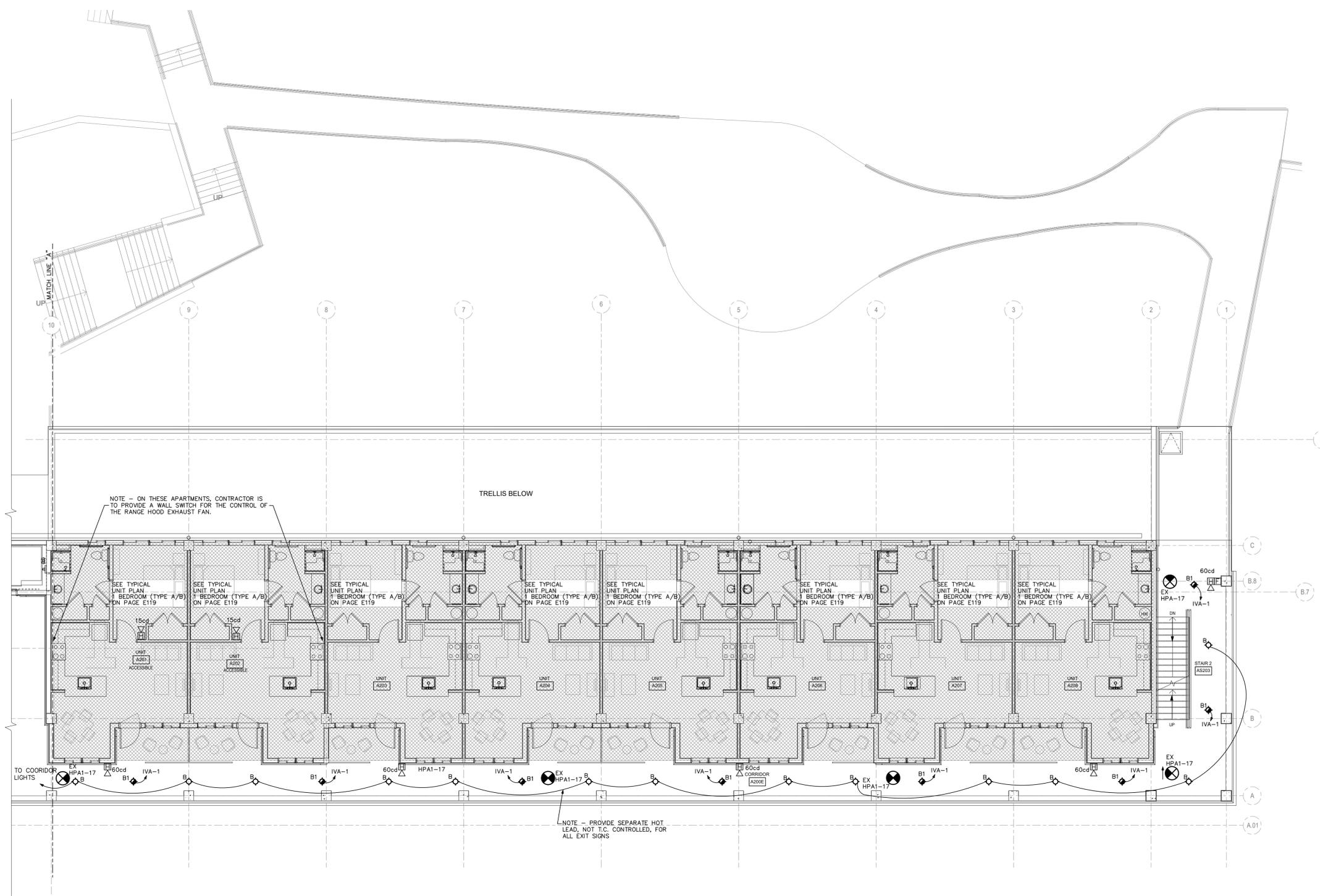


(LOWER BUILDING)  
**1 A - LEVEL 2 PARTIAL FLOOR PLAN - LIGHTING**  
 SCALE: 1/8"=1'-0"



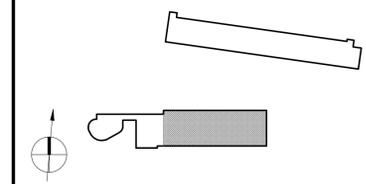
ISSUE



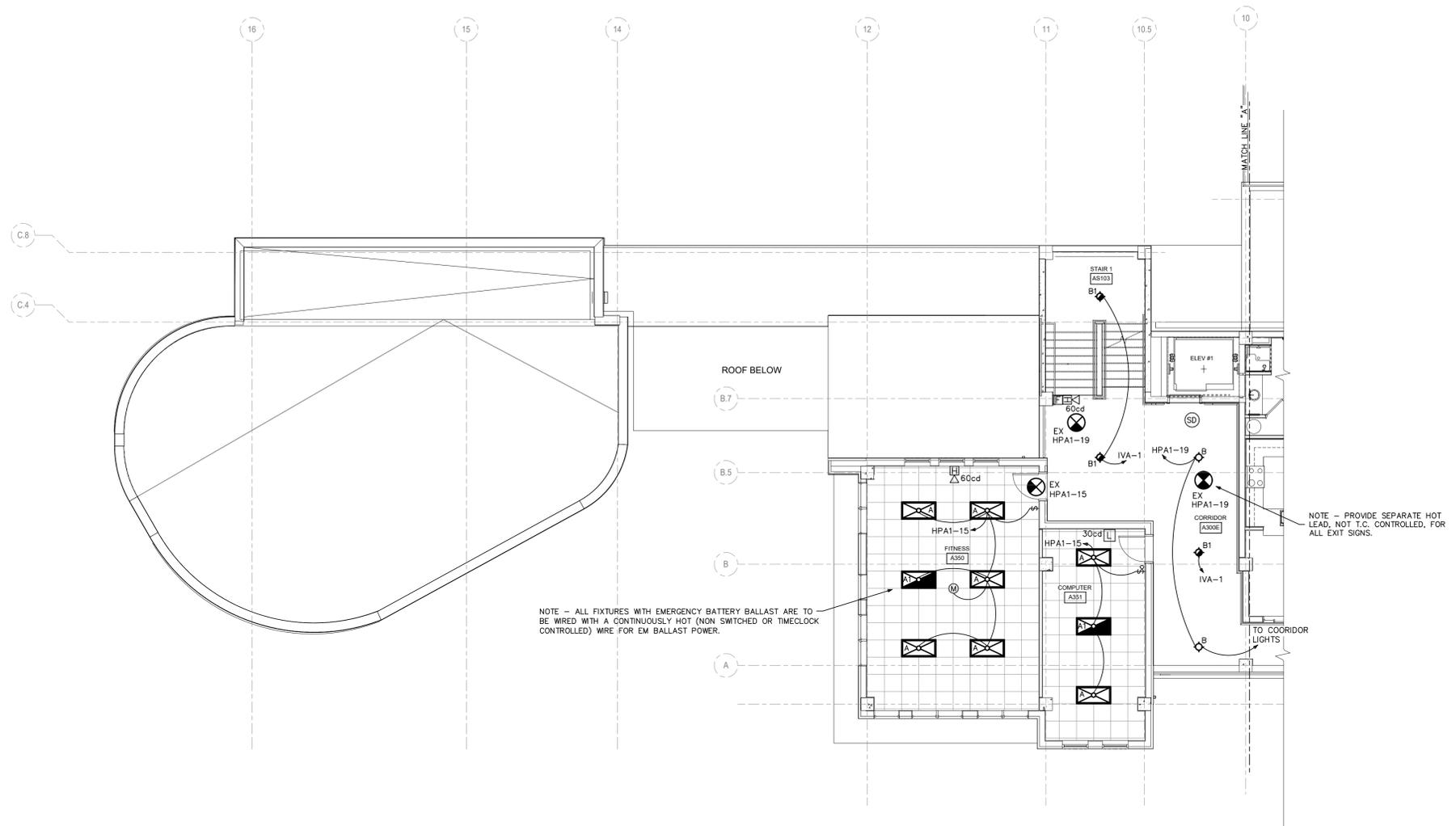


(LOWER BUILDING)  
**1 BLDG A - LEVEL 2 PARTIAL FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

KEY PLAN

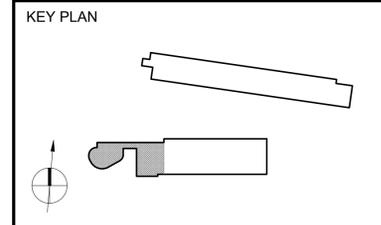


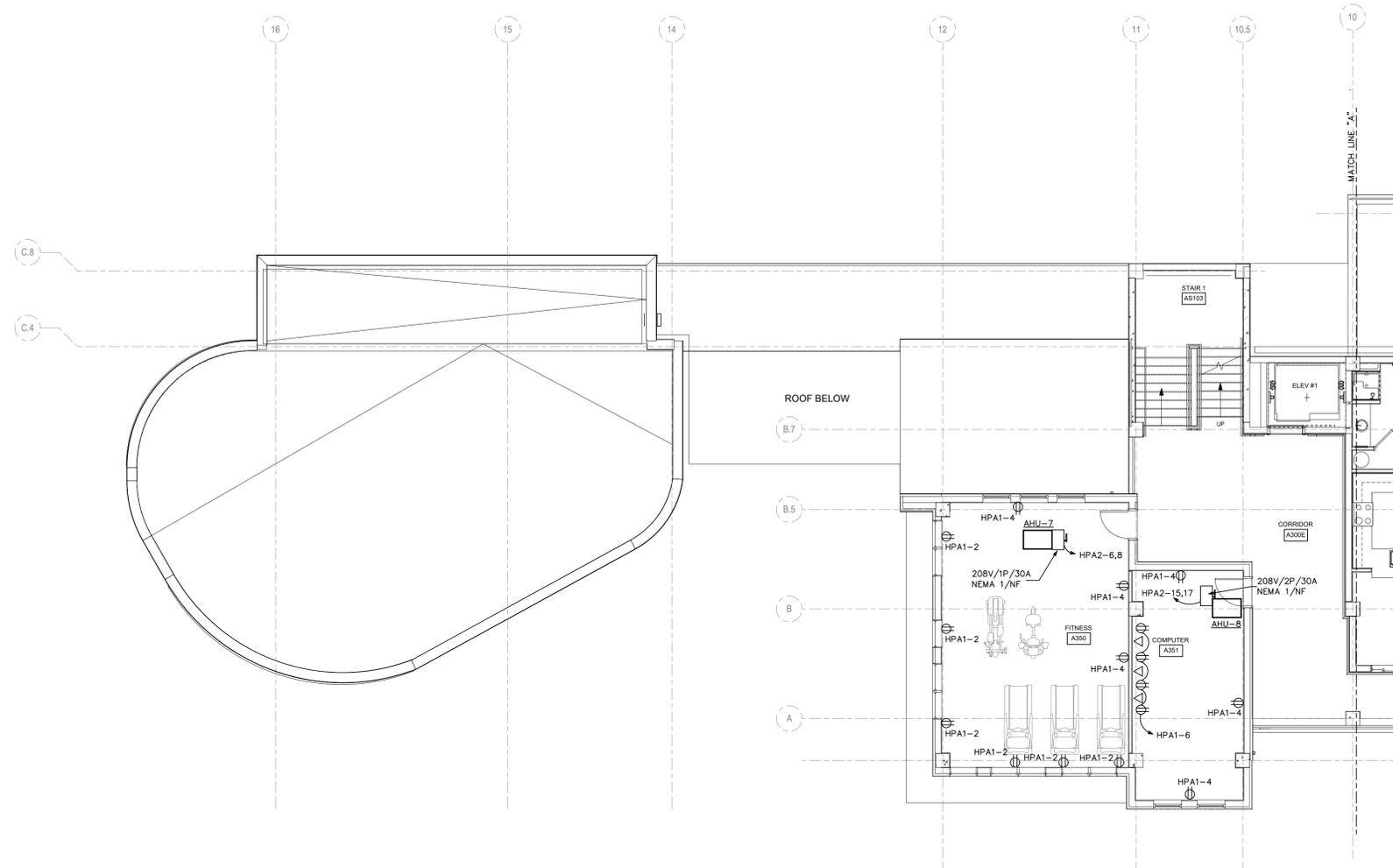
ISSUE



(LOWER BUILDING)

**1 A - LEVEL 3 PARTIAL FLOOR PLAN - LIGHTING**  
 SCALE: 1/8"=1'-0"

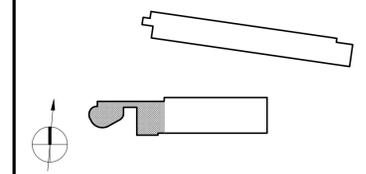


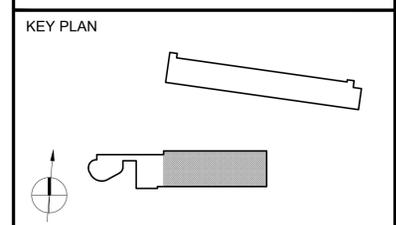
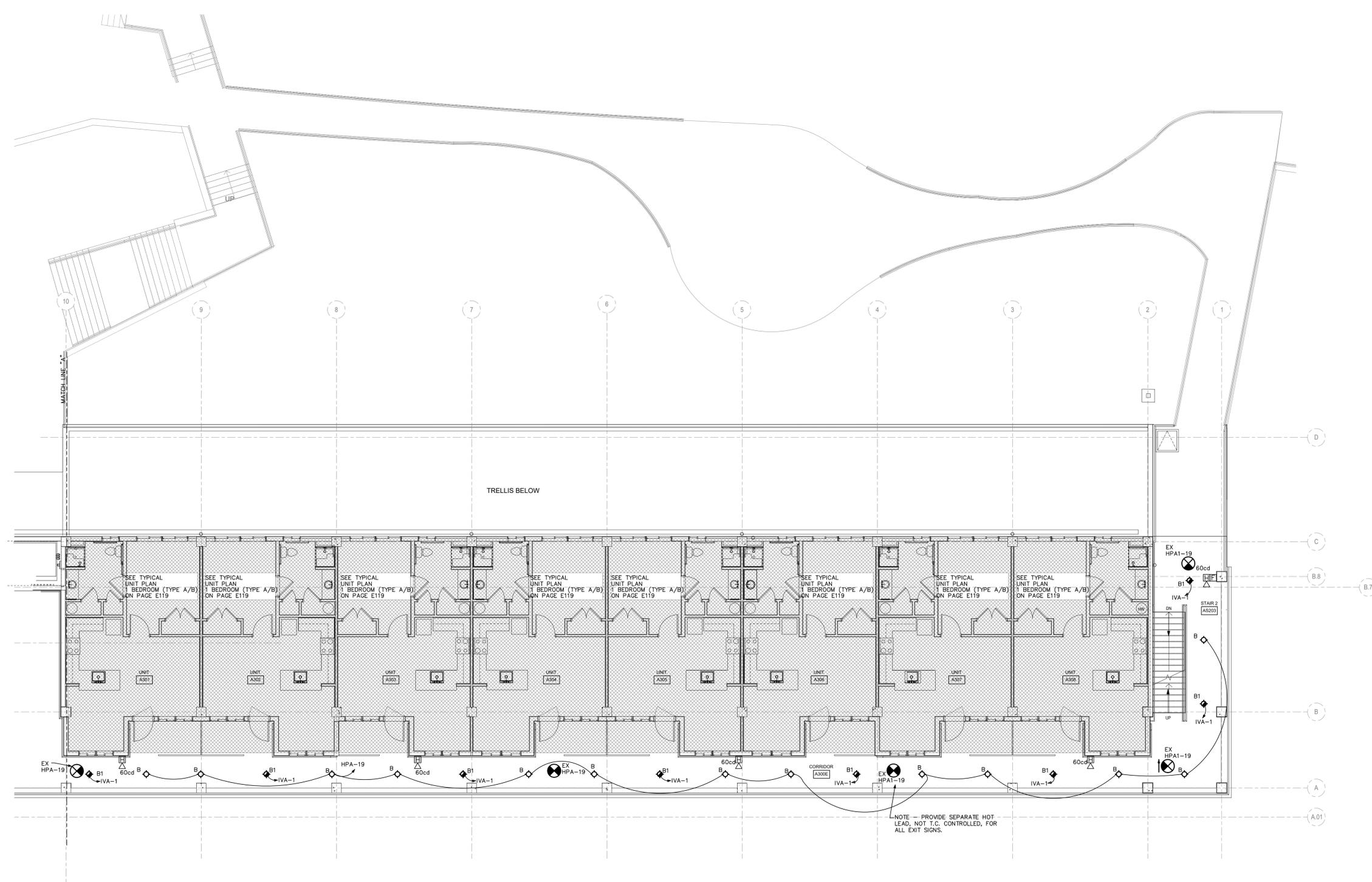


(LOWER BUILDING)

**1 A - LEVEL 3 PARTIAL FLOOR PLAN - POWER**  
 SCALE: 1/8"=1'-0"

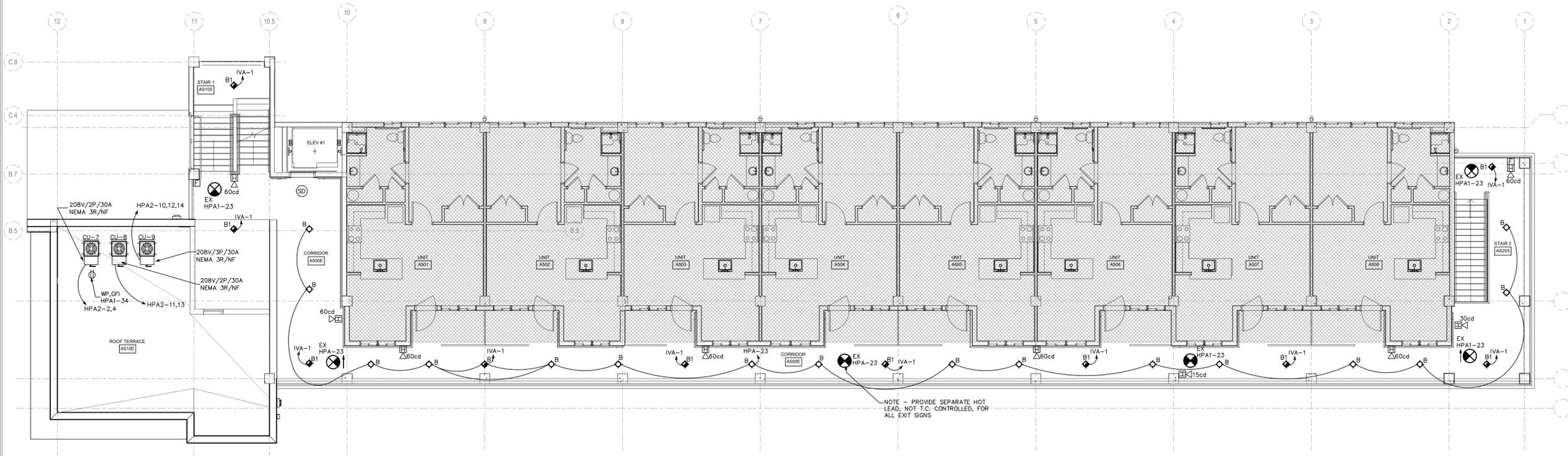
KEY PLAN



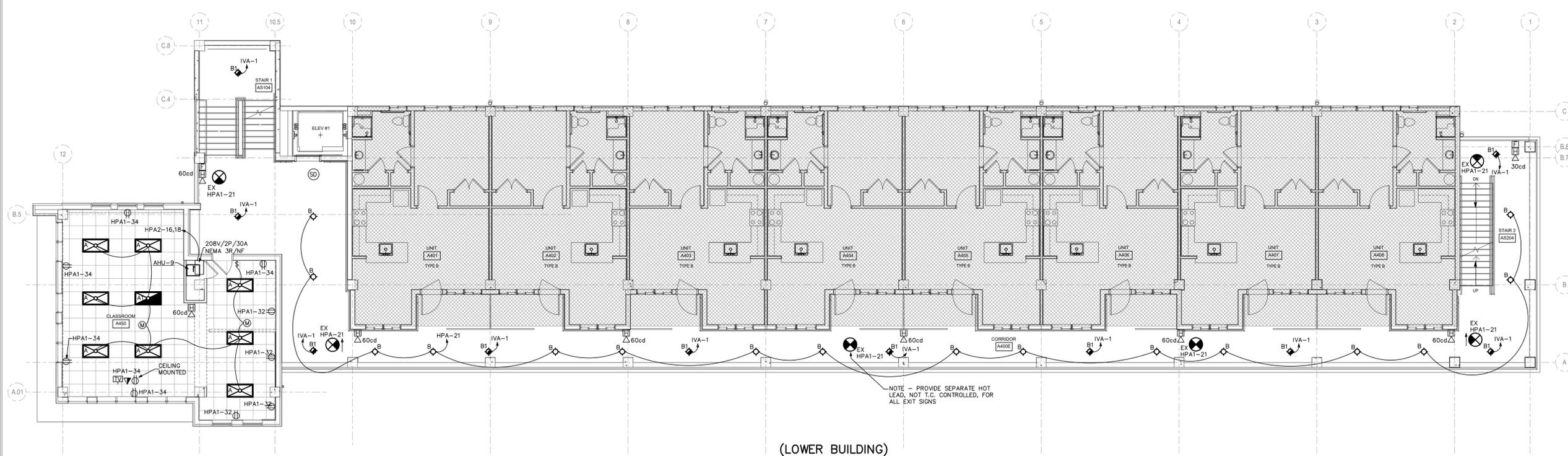
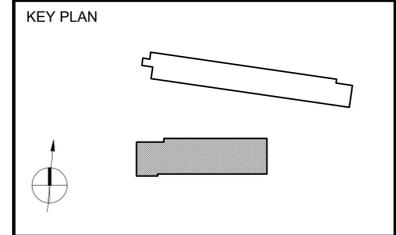


(LOWER BUILDING)  
**1 A - LEVEL 3 PARTIAL FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

NOTE - PROVIDE SEPARATE HOT LEAD, NOT T.C. CONTROLLED, FOR ALL EXIT SIGNS.



(LOWER BUILDING)  
**2 A - LEVEL 5 FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

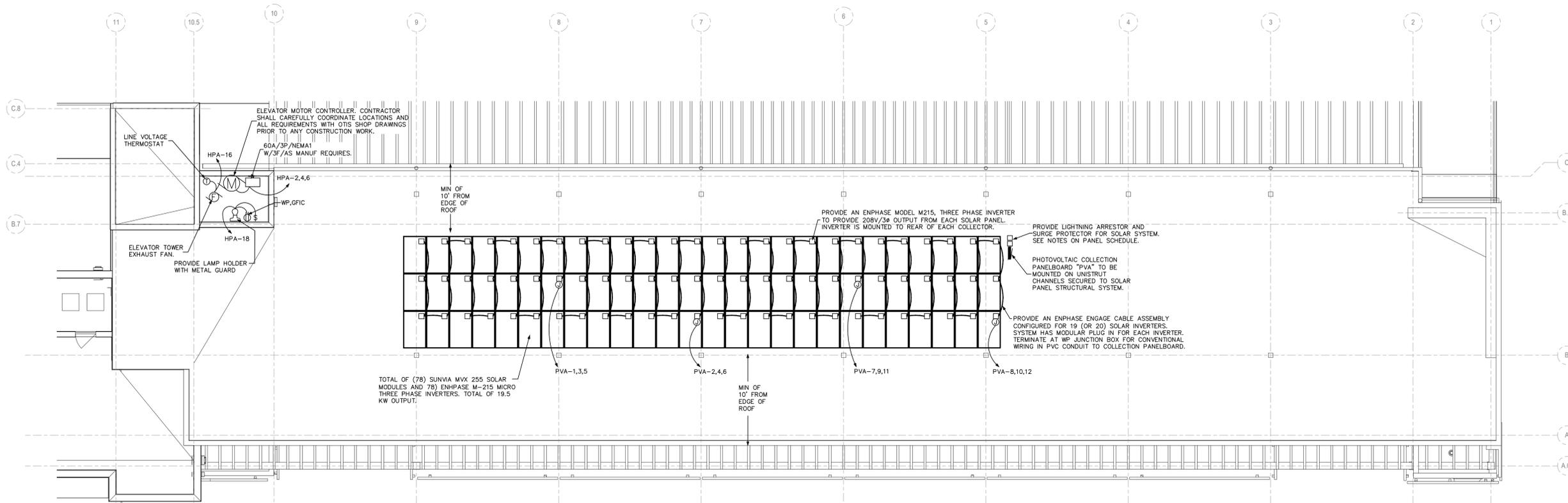


(LOWER BUILDING)  
**1 A - LEVEL 4 FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

PANEL SCHEDULE PVA															
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 70A. M.C.B., 10000 AMPS MINIMUM A.I.C., BRACING, SURFACE MOUNTED, TYPE NEMA 3R ENCLOSURE															
BKR. #	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #
	COND.	NEUTRAL	GND	C. KEYS							KEYS	C.	GND	NEUTRAL	
1						0	1700								
3	20/3	#12	---	#12 1/2	CHEP	(20) 255W SOLAR CELLS	0	1615						2	
5							0	1700						4	
7							0	1615						6	
9	20/3	#12	---	#12 1/2	CHEP	(20) 255W SOLAR CELLS	0	1700						8	
11							0	1615						10	
13						SPACE	0	1700						12	
15						SPACE	0	1615						14	
17						SPACE	0	0						16	
19						SPACE	0	0						18	
21						SPACE	0	0						20	
23						SPACE	0	0						22	
							0	0						24	
WIRE/CONDUIT KEY						6630	6630	6630	NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 55.3 AMPS						
1234						19,890			PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001						
1									REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS						

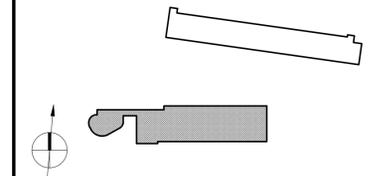
PANEL NOTES:  
 \* - PROVIDE A DELTA MODEL LA-303 THREE PHASE LIGHTNING ARRESTOR  
 \*\* - PROVIDE A CITEL MODEL D573-RS-G SURGE PROTECTOR

PANEL PVA DIVERSIFICATION CALCULATIONS	
MISC NON-CONTINUOUS LOADS AT 100% -	19890
TOTAL DIVERSIFIED PANEL LOAD -	19890
LOAD AT 120/208V/3-PHASE/4-WIRE -	55.3A



(LOWER BUILDING)  
**1 A - ROOF PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

KEY PLAN



PANEL SCHEDULE HPB1																			
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 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	WIRE AND CONDUIT				BKR.	#			
		COND.	NEUTRAL	GND	C.						KEYS	C.	GND	NEUTRAL			COND.		
1	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	900	900	---	---	---	---	---	---	---	---	---	---
3	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	900	900	---	---	---	---	---	---	---	---	---	---
5	20/1	#12	#12	#12	1/2	CHAL	WASHER - B350	180	180	---	---	---	---	---	---	---	---	---	---
7	20/1	#12	#12	#12	1/2	CHAL	WASHER - B350	1500	1500	---	---	---	---	---	---	---	---	---	---
9	20/1	#12	#12	#12	1/2	CHAL	WASHER - B350	1500	1500	---	---	---	---	---	---	---	---	---	---
11	20/1	#12	#12	#12	1/2	CHAL	WASHER - B350	810	810	---	---	---	---	---	---	---	---	---	---
13	20/1	#12	#12	#12	1/2	CHAL	FIRE ALARM CONTROL PANEL	100	100	---	---	---	---	---	---	---	---	---	---
15	20/1	#12	#12	#12	1/2	CHAL	POTABLE WATER UV STERILIZ	1200	1200	---	---	---	---	---	---	---	---	---	---
17	20/2	#10	---	#10	1	CHEL	BOLLARD LIGHTS *	780	780	---	---	---	---	---	---	---	---	---	---
19	20/2	#10	---	#10	1	CHEL	BOLLARD LIGHTS *	1100	1100	---	---	---	---	---	---	---	---	---	---
21	20/2	#10	---	#10	1	CHEL	BOLLARD LIGHTS *	1100	1100	---	---	---	---	---	---	---	---	---	---
23	20/2	#12	---	#12	1	CHEL	SITE LIGHTING *	780	780	---	---	---	---	---	---	---	---	---	---
25	20/2	#12	---	#12	1	CHEL	SITE LIGHTING *	550	550	---	---	---	---	---	---	---	---	---	---
27							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
29							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
31							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
33							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
35							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
37							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
39							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
41							SPACE	0	0	---	---	---	---	---	---	---	---	---	---
42							SPACE	0	0	---	---	---	---	---	---	---	---	---	---

WIRE/CONDUIT KEY  
 1234  
 WIRING TYPE  
 CONDUIT TYPE  
 INSULATION  
 WIRING TYPE

PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 70.5 AMPS  
 NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 76. AMPS  
 27,360  
 PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001  
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

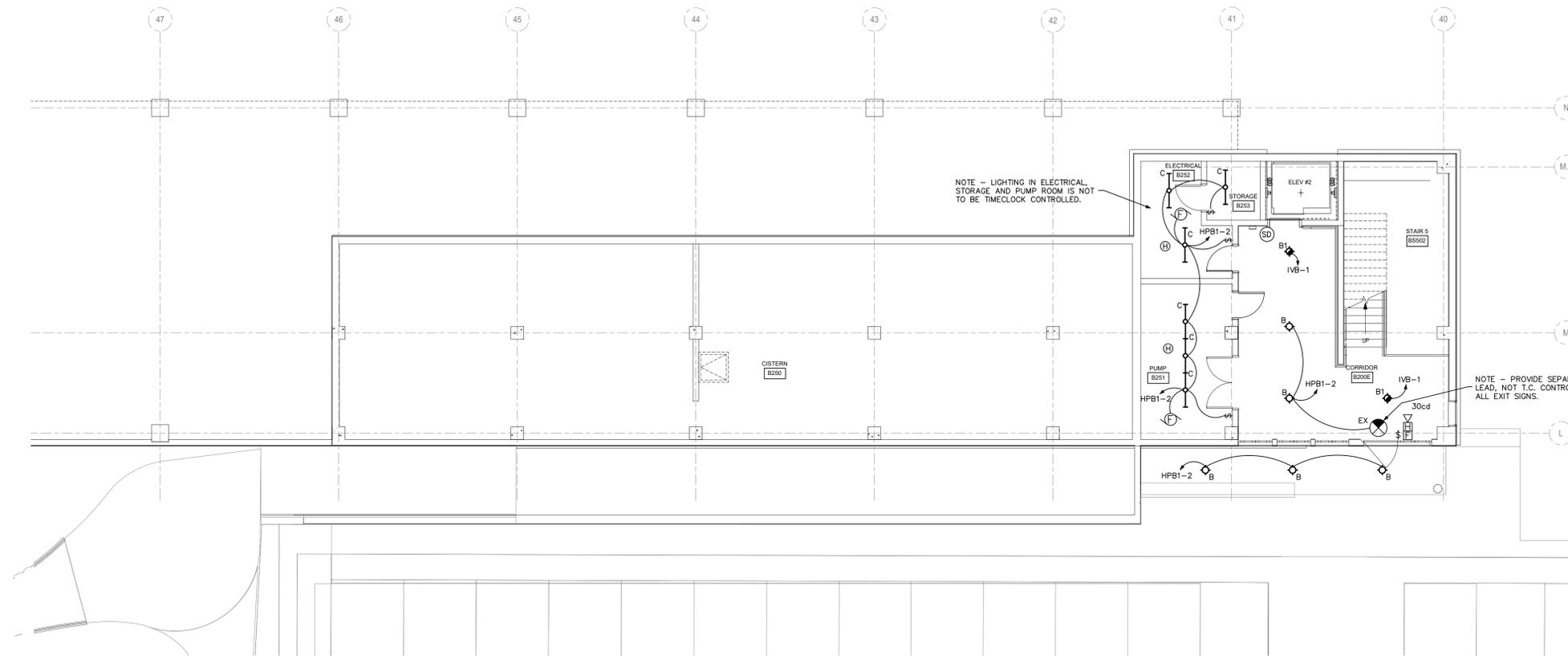
PANEL HPB1 DIVERSIFICATION CALCULATIONS	
RECEPTACLES (17) - 3060 VA TOTAL	
FIRST 10 KVA AT 100% - 3060	
LIGHTING - 8560 X 125% - 10700	
MISC NON-CONTINUOUS LOADS AT 100% - 14540	
MISC CONTINUOUS LOADS AT 125% - 1500	
1200 X 1.25 - 1500	
TOTAL DIVERSIFIED PANEL LOAD - 29808	
LOAD AT 120/208V/3-PHASE/4-WIRE - 82.8A	

PANEL SCHEDULE HPB																				
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 200A. M.C.B., 10000 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	WIRE AND CONDUIT				BKR.	#				
		COND.	NEUTRAL	GND	C.						KEYS	C.	GND	NEUTRAL			COND.			
1	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
3	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	4200	---	---	---	---	---	---	---	---	---	---	---
5	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
7	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	4200	---	---	---	---	---	---	---	---	---	---	---
9	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
11	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	4200	---	---	---	---	---	---	---	---	---	---	---
13	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
15	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	4200	---	---	---	---	---	---	---	---	---	---	---
17	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
19	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	4200	---	---	---	---	---	---	---	---	---	---	---
21	30/2	#10	---	#10	1/2	CHAL	DRYER - B350	0	2500	---	---	---	---	---	---	---	---	---	---	---
23	125/3	#1	#6	#6	1-1/4	CHAL	CISTERN WATER PUMP SYSTEM	500	500	---	---	---	---	---	---	---	---	---	---	---
25	20/1	#12	#12	#12	1/2	CHAL	ELEVATOR SUMP PUMP	1123	1123	---	---	---	---	---	---	---	---	---	---	---
27	20/1	#12	#12	#12	1/2	CHAL	ELEVATOR SUMP PUMP	1123	1123	---	---	---	---	---	---	---	---	---	---	---
29	20/1	#12	#12	#12	1/2	CHAL	ELEVATOR SUMP PUMP	1123	1123	---	---	---	---	---	---	---	---	---	---	---
31							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
33							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
35							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
37							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
39							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
41							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---
42							SPACE	0	0	---	---	---	---	---	---	---	---	---	---	---

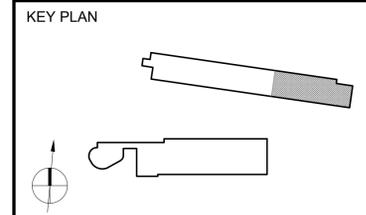
WIRE/CONDUIT KEY  
 1234  
 WIRING TYPE  
 CONDUIT TYPE  
 INSULATION  
 WIRING TYPE

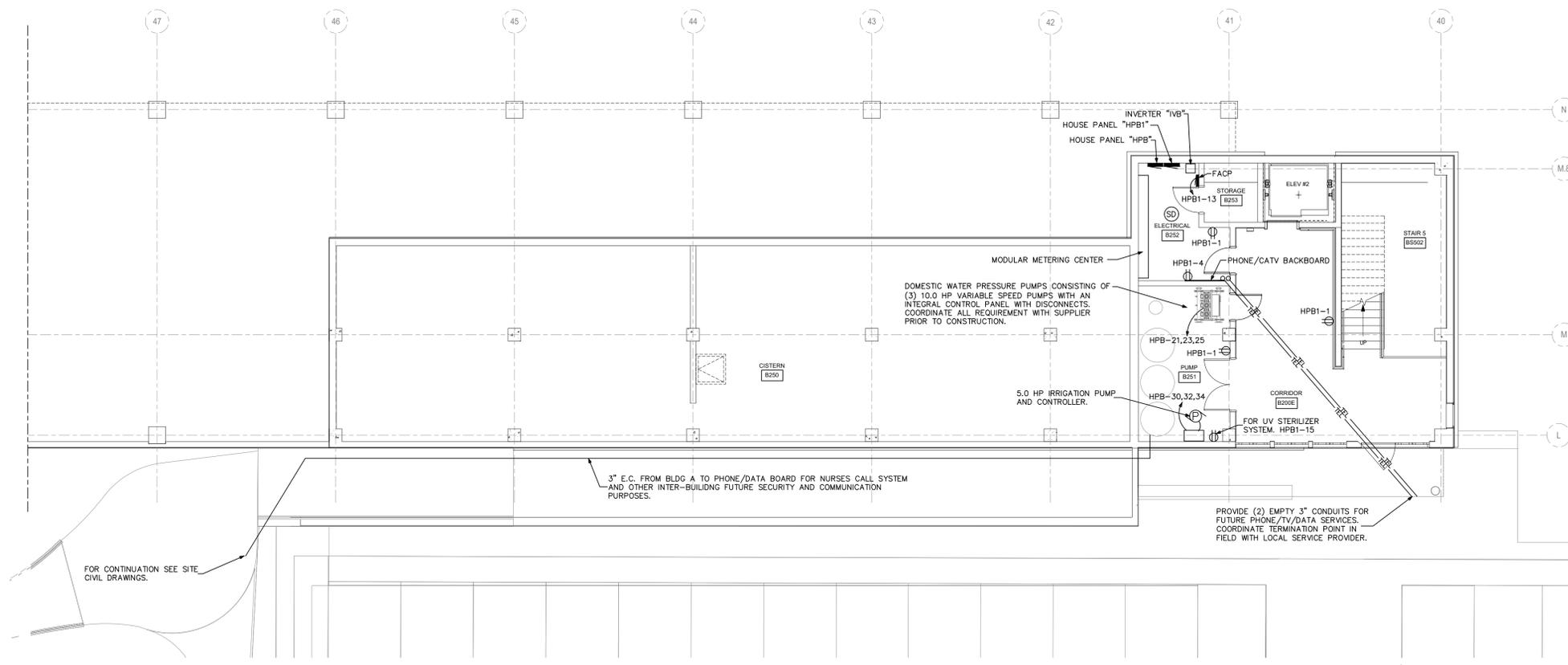
PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 69.1 AMPS  
 NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 306.9 AMPS  
 110,483  
 PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001  
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CARDINAS

PANEL HPB DIVERSIFICATION CALCULATIONS	
RECEPTACLES (13) - 2340 VA TOTAL	
FIRST 10 KVA AT 100% - 2340	
LIGHTING - 2910 X 125% - 3638	
MOTOR LOADS AT 100% - 66532	
PLUS 25% OF THE LARGEST MOTOR - 3150	
MISC NON-CONTINUOUS LOADS AT 100% - 39600	
TOTAL DIVERSIFIED PANEL LOAD - 114135	
LOAD AT 120/208V/3-PHASE/4-WIRE - 317.0A	

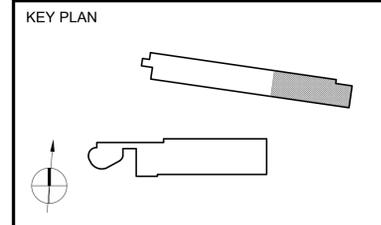


**1 B - LEVEL 2 PARTIAL FLOOR PLAN - LIGHTING**  
 SCALE: 1/8"=1'-0"

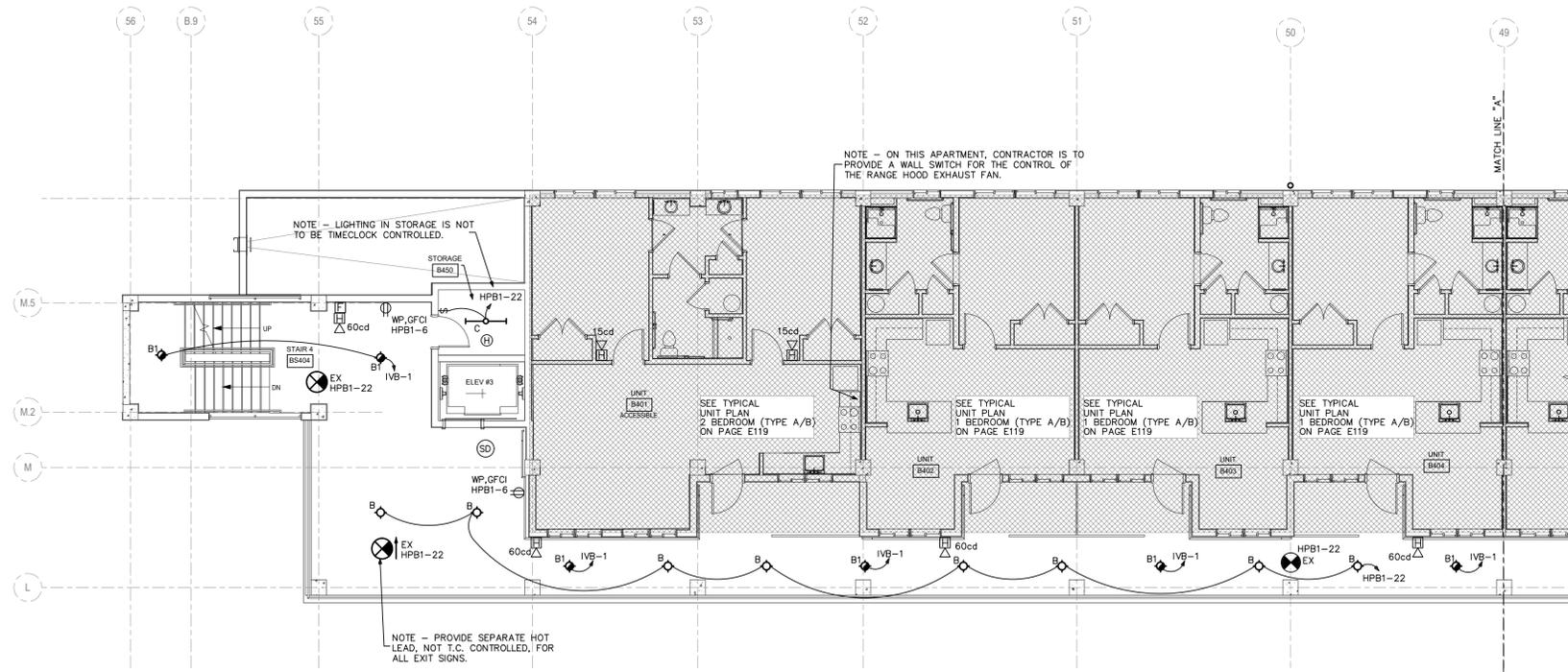




(UPPER BUILDING)  
**1 B - LEVEL 2 PARTIAL FLOOR PLAN - POWER**  
 SCALE: 1/8"=1'-0"

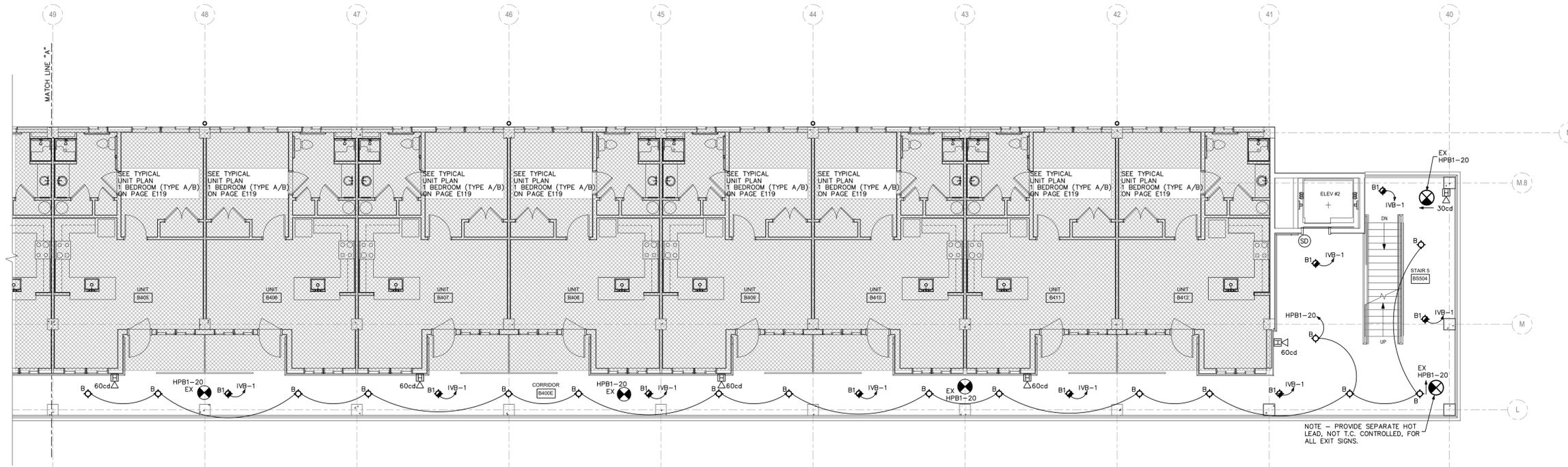






(UPPER BUILDING)

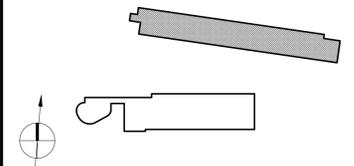
**2 B - LEVEL 4 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"

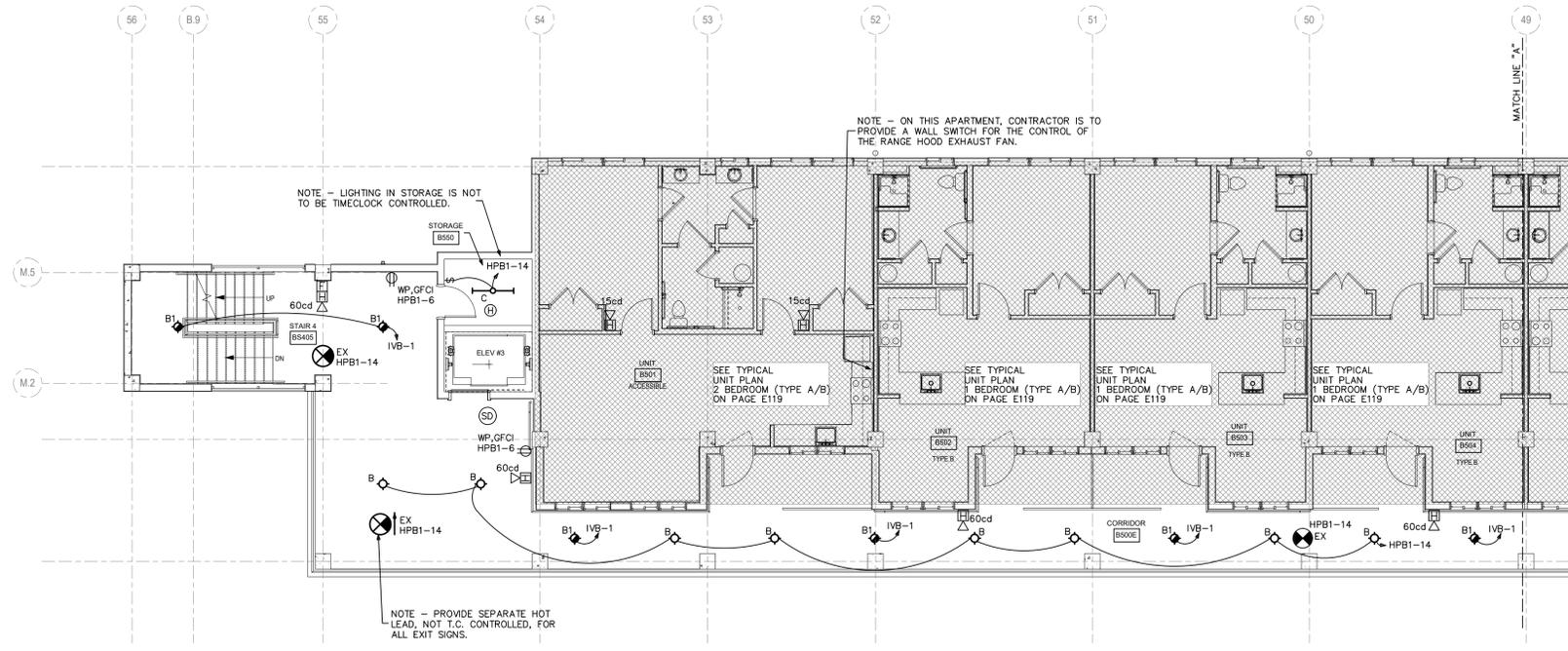


(UPPER BUILDING)

**1 B - LEVEL 4 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"

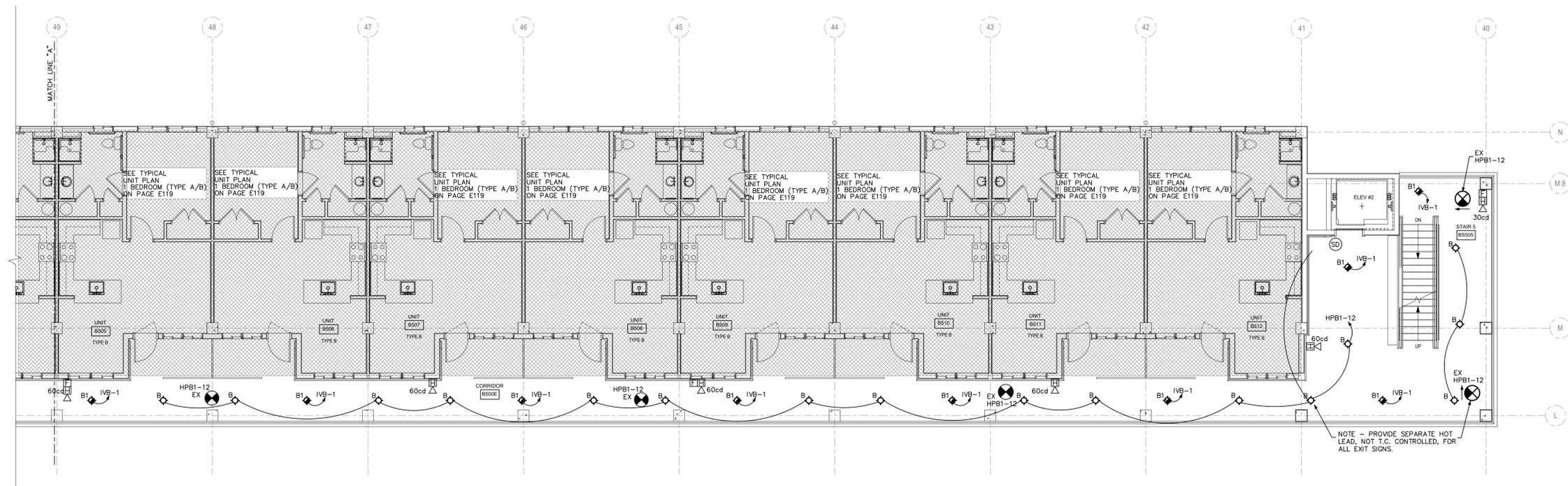
KEY PLAN





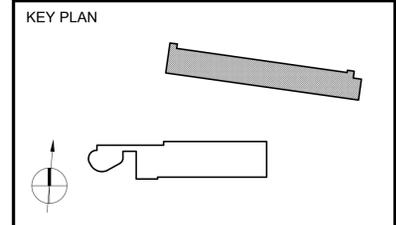
(UPPER BUILDING)

**2 B - LEVEL 5 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"

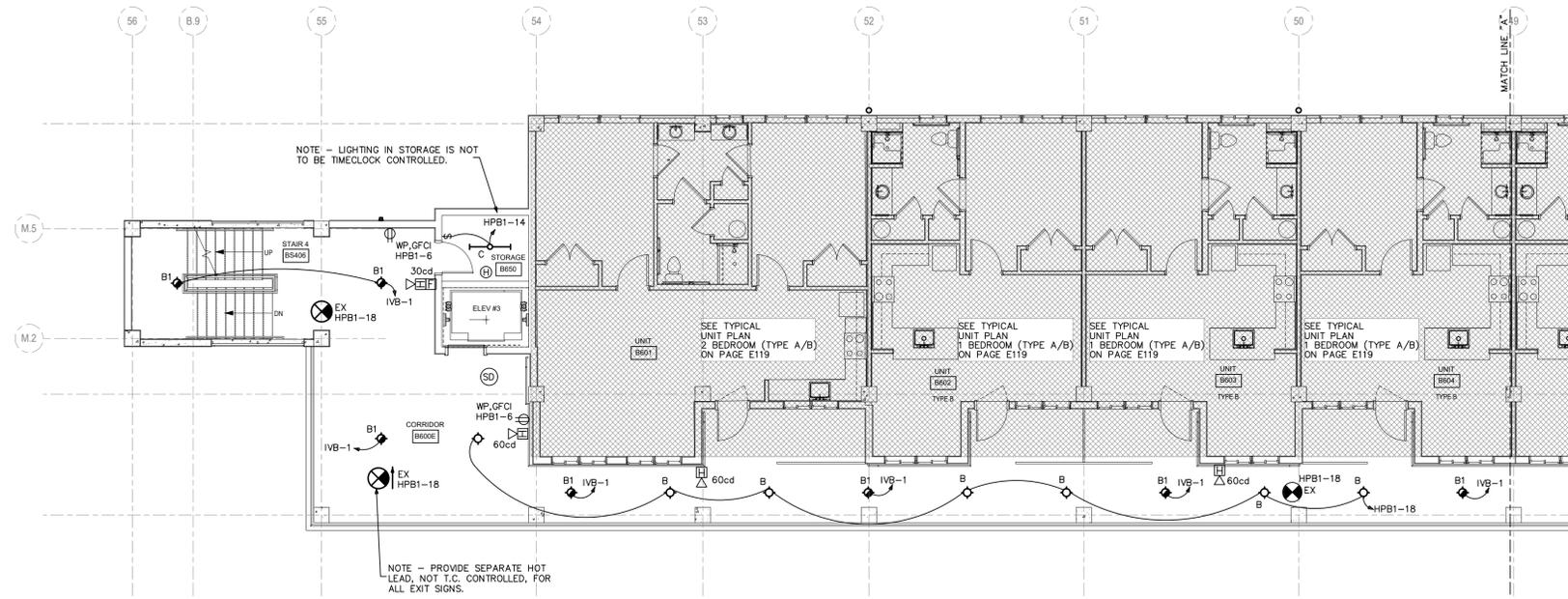


(UPPER BUILDING)

**1 B - LEVEL 5 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"



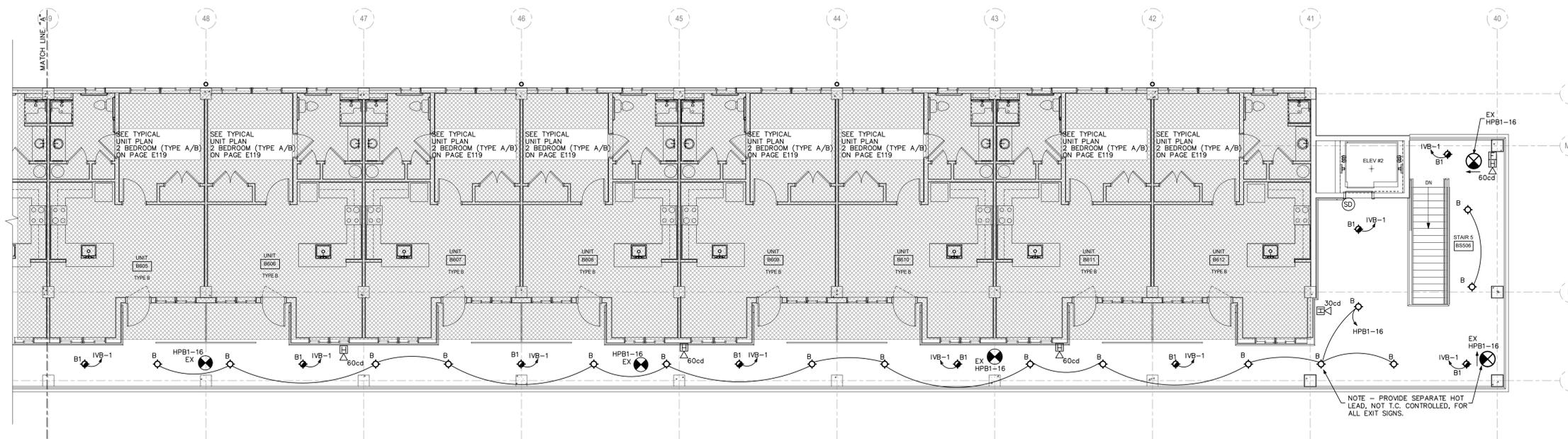
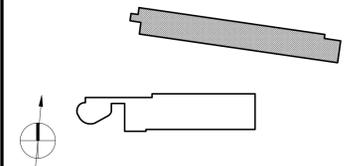
ISSUE



(UPPER BUILDING)

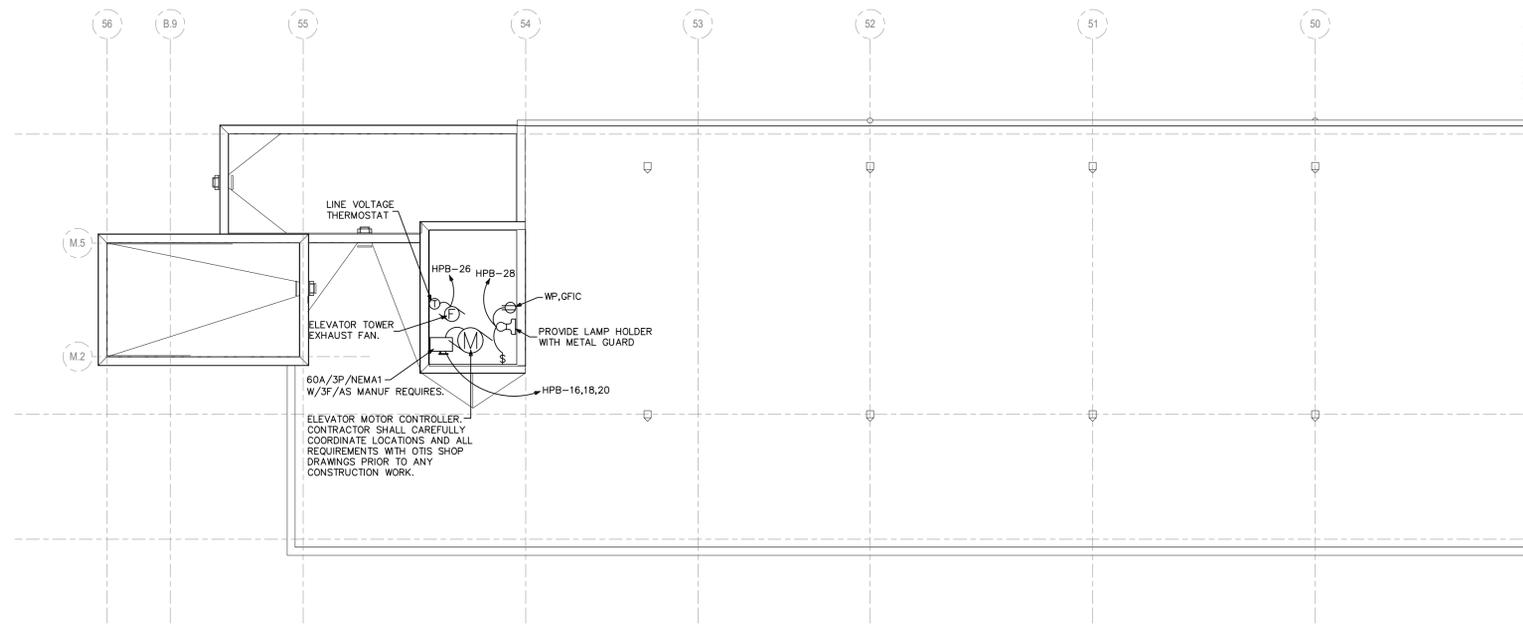
**2 B - LEVEL 6 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"

KEY PLAN

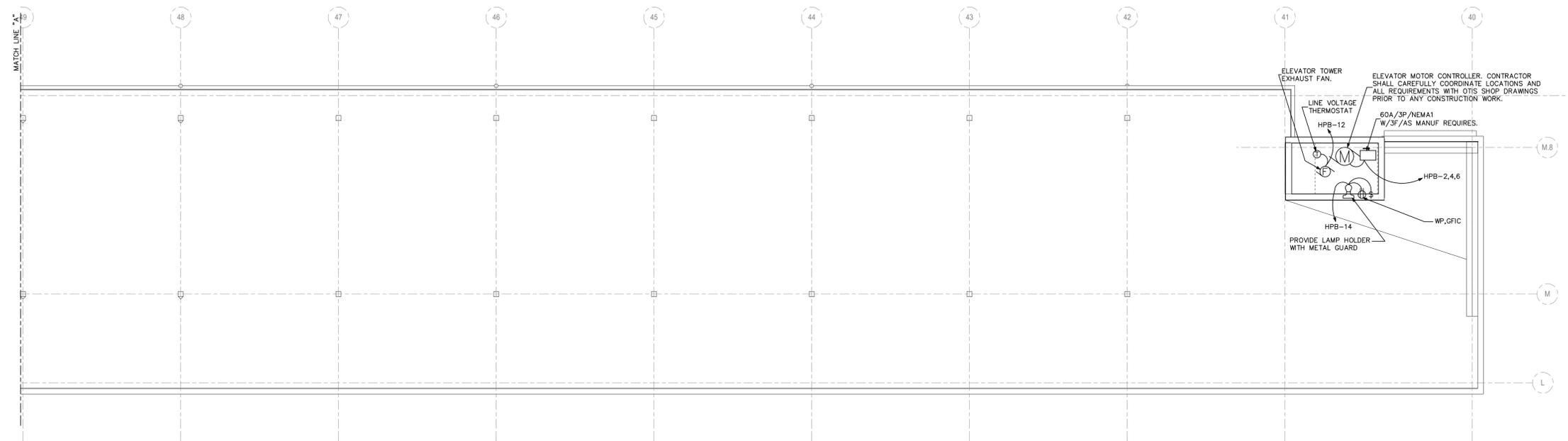


(UPPER BUILDING)

**1 B - LEVEL 6 PARTIAL FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8"=1'-0"



(UPPER BUILDING)  
**2 B - ROOF PLAN (LOW) - ELECTRICAL**  
 SCALE: 1/8"=1'-0"



(UPPER BUILDING)  
**1 B - ROOF PLAN (LOW) - ELECTRICAL**  
 SCALE: 1/8"=1'-0"

KEY PLAN

