

PLOTTED: KEVIN W. BAKER 12/28/2007 3:14 PM
 C:\DOCUMENTS AND SETTINGS\REVIEWS\LOCAL
 SETTINGS\BMPACT\BMPACT_13502035100

POWER DEVICES	
	DUPLEX RECEPTACLE [+ 18"]
	HALF-SWITCH RECEPTACLE [+ 18"]
	ISOLATED RECEPTACLE [+ 18"]
	DUPLEX RECEPT. [ABOVE COUNTER]
	DOUBLE DUPLEX RECEPTACLE [+ 18"]
	DOUBLE DUPLEX RECEPT. [ABOVE COUNTER]
	SINGLE RECEPTACLE [+ 18"]
	DUPLEX RECEPT. IN CLG.
	DOUBLE DUPLEX RECEPT. IN CLG.
	PEDISTAL MOUNTED DUPLEX RECEPTACLE
	FLOOR BOX DUPLEX RECEPTACLE
	SPECIAL PURPOSE POWER RECEPTACLE [+ 18"]
	ELECTRICAL EQUIPMENT CONNECTION
	POWER/DATA POLE
	MAGNETIC STARTER
	SAFETY SWITCH
	FUSED SAFETY SWITCH
	ELECTRICAL MOTOR CONNECTION
	SINGLE-POINT ELECTRICAL CONN.
	PUSH BUTTON CONTROL [+ 45"]
	UP/DOWN/STOP PUSH BUTTON CONTROL [+ 45"]
	CONTROL TRANSFORMER
	COMBINATION POWER/DATA/TELE FLOOR BOX
	JUNCTION BOX
	ABOVE GROUND J-BOX
	J-BOX - W/ EMERGENCY CIRCUIT
	FLUSH AUTOMATIC DOOR ACTUATOR [+45"]
	RELAY
	PULL BOX

DISTRIBUTION & EQUIPMENT	
	FLUSH ELECTRICAL PANEL [MAX 6'-6" TO TOP]
	SURFACE ELECTRICAL PANEL [MAX 6'-6" TO TOP]
	FLUSH CONTROL PANEL [MAX 6'-6" TO TOP]
	SURFACE CONTROL PANEL [MAX 6'-6" TO TOP]
	DISTRIBUTION PANEL
	U.G. VAULT
	METER BASE & SOCKET

REFERENCE SYMBOLS & WIRING	
	CONDUIT WITH GROUND CONDUCTOR
	NEUTRAL CONDUCTOR
	PHASE CONDUCTOR
	HOMERUN ARROW
	PLAN NOTE MARK
	SHEET REFERENCE MARK
	MECH. EQUIPMENT NOTE MARK
	SHOP EQUIPMENT NOTE MARK
	KITCHEN EQUIPMENT NOTE MARK
	FEEDER MARK
[+ XX"] STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON DRAWINGS	

LIGHTING DEVICES	
	SURFACE MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
	RECESSED FLUORESCENT LIGHT FIXTURE
	RECESSED EMERGENCY LIGHT FIXTURE
	RECESSED FLUORESCENT LIGHT FIXTURE
	RECESSED EMERGENCY LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	RECESSED EMERGENCY LIGHT FIXTURE
	SURFACE/PENDANT LIGHT FIXTURE
	SURFACE/PENDANT EMERGENCY LIGHT FIXTURE
	TRACK LIGHTING SYSTEM
	STRIP LIGHT FIXTURE
	EMERGENCY STRIP LIGHT FIXTURE
	RECESSED DOWNLIGHT
	RECESSED EMERGENCY DOWNLIGHT
	RECESSED FLUORESCENT WALL WASH FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	SURFACE / PENDANT MOUNTED LIGHT FIXTURE
	SURFACE PENDANT MOUNTED EMERGENCY LIGHT FIXTURE
	LINEAR WALL MOUNTED LIGHT FIXTURE
	LINEAR WALL MOUNTED EMERGENCY FIXTURE
	FLOOD LIGHT FIXTURE
	POLE ARM MOUNT LIGHT FIXTURE
	LIGHTED BOLLARD
	EMERGENCY LIGHTED BOLLARD
	POLE TOP MOUNT LIGHT FIXTURE
	BATTERY PACK EMERGENCY LIGHT FIXTURE
	REMOTE EMERGENCY BATTERY BALLAST
	STEP LIGHT
	CEILING MOUNTED EXIT SIGN (SIGN FACE)
	WALL MOUNTED EXIT SIGN [+ 18" ABOVE DOOR]
	COMBO EXIT SIGN/ EMERGENCY LIGHT [+ 18" ABOVE DOOR]
	SINGLE-POLE SWITCH [+ 45"]
	TWO-POLE SWITCH [+ 45"]
	THREE-WAY SWITCH [+ 45"]
	FOUR-WAY SWITCH [+ 45"]
	SINGLE POLE-KEY SWITCH [+ 45"]
	SWEEP SWITCH [+ 45"]
	SWEEP SWITCH - 3 WAY [+ 45"]
	LOW VOLTAGE SWITCH [+ 45"]
	MOMENTARY LOW VOLTAGE SWITCH [+ 45"]
	KEYED MOMENTARY LOW VOLTAGE SWITCH [+ 45"]
	DIMMER SWITCH [+ 45"]
	OCCUPANCY SENSOR SWITCH [+ 45"]
	SINGLE-POLE SW. W/PILOT LIGHT [+ 45"]
	LIGHTING RELAY
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	PHOTOCELL
	AUTO-TRANSFORMER DIMMER
	BALLAST LOAD TRANSFER EMERGENCY RELAY
	LIGHTING CONTACTOR

TELECOMMUNICATION DEVICES	
	MULTI-SERVICE POWER/TELE/DATA (SPIDERBOX) IN WALL [+ 18"]
	DATA OUTLET [+ 18"]
	DATA OUTLET [ABOVE COUNTER]
	DATA OUTLET ON CLG.
	TELEPHONE OUTLET [+ 18"]
	TELEPHONE OUTLET [ABOVE COUNTER]
	COMBO. TELE/DATA OUTLET [+ 18"]
	COMBO. TELE/DATA OUTLET [ABOVE COUNTER]
	FLOOR BOX DATA OUTLET
	FLOOR BOX COMBO TELE/DATA OUTLET
	FLOOR BOX PHONE OUTLET
	DATA OUTLET FOR WIRELESS NODE [+ 84"]
	SPECIAL DATA OUTLET [+ 18"]
	SPECIAL DATA OUTLET [+ 18"]

SIGNAL DEVICES	
	VOLUME CONTROL [+ 45"]
	AUDIO/VISUAL OUTLET [+ 18"]
	VIDEO OUTLET [+ 18"]
	MICROPHONE OUTLET [+ 18"]
	CLOCK
	TIME CLOCK
	CLOCK/SPEAKER WALL UNIT
	SPEAKER-CEILING MOUNTED
	SPEAKER-WALL MOUNTED
	THERMOSTAT
	DMX CONTROL OUTLET
	BUZZER
	NURSE CALL

FIRE ALARM DEVICES	
	FIRE ALARM HORN/STROBE [+ 88"]
	FIRE ALARM PULL STATION [+ 45"]
	INTERCOM HORN [+ 88"]
	FIRE ALARM STROBE [+ 88"]
	HEAT DETECTOR
	MAGNETIC DOOR HOLDER
	DUCT SMOKE DETECTOR
	PHOTO ELECTRIC TYPE DETECTOR
	IONIZATION TYPE SMOKE DETECTOR
	FIRE/SMOKE DAMPER
	FIRE DOOR RELEASE
	BEAM DETECTOR TRANSMITTER
	BEAM DETECTOR RECEIVER
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	BELL
	KNOX BOX
	120V IONIZATION TYPE SMOKE DETECTOR
	120V PHOTO ELECTRIC TYPE DETECTOR

SECURITY DEVICES	
	SECURITY MOTION SENSOR
	FOUR WAY SECURITY MOTION SENSOR
	SECURITY CAMERA
	INFRARED DOOR ACCESS [ABOVE DOOR]
	SECURITY KEYPAD [+ 45"]
	MAGNETIC DOOR SWITCH
	SECURITY DOOR LOCK
	CENTRONIC DOOR CLOSER
	CARD READER [+ 45"]

ABBREVIATIONS	
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
AB	ABOVE COUNTER BACKSPLASH
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC-FAULT CIRCUIT INTERRUPTER
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING.
AL	ALUMINUM
ALC	AUTOMATIC LIGHTING CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BRKR	CIRCUIT BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FSD	FIRE/SMOKE DAMPER
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HTR	HEATER
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFGR'S ASSOCIATION.
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH, Ø	PHASE
PNL	PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TEL	TELEPHONE
TK	INSTALL TOE KICK
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
W	WATT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFR	TRANSFORMER

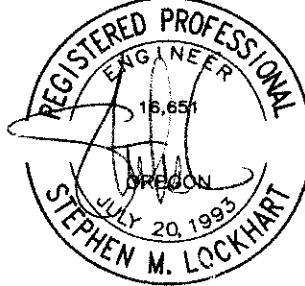
LINETYPE LEGEND	
	UNDER GROUND
	ABOVE GROUND, IN WALL, CEILING ETC.
	NEW EQUIPMENT (TYPICAL)
	EXISTING EQUIPMENT (TYPICAL)
	DEMOLISHED EQUIPMENT (TYPICAL)

LIGHTING SCHEDULE	
TYPE	DESCRIPTION
A	4', (2) LAMP T8 FLUORESCENT STRIP.
AE	SAME AS "A" EXCEPT WITH 1200 LUMEN BATTERY BALLAST.
B	32 WATT TRIPLE TUBE RECESSED DOWN LIGHT, 6" DIA.
BE	SAME AS "B" EXCEPT 600 LUMEN BATTERY BALLAST.
C	DECK LIGHT.
D	EXTERIOR DOWN LIGHT
E	EXIT SIGN
E1	2 SIDED EXIT SIGN
F	POLE MOUNTED PARKING LOT FIXTURE
GE	WALL MOUNTED, COMPACT FLUORESCENT WATERGRADE FIXTURE.

DRAWING INDEX	
DWG.	DESCRIPTION
E100	ELECTRICAL COVER SHEET
E101	ELECTRICAL SITE PLAN
E200	PARKING LEVEL ELECTRICAL FLOOR PLAN
E201	LEVEL 1 ELECTRICAL FLOOR PLAN
E202	LEVEL 2 ELECTRICAL FLOOR PLAN
E203	LEVEL 3 ELECTRICAL FLOOR PLAN
E204	NOT USED
E205	NOT USED
E206	NOT USED
E207	LEVEL 7 ELECTRICAL FLOOR PLAN
E208	NOT USED
E209	ELECTRICAL ROOF PLAN
E300	ONE-LINE DIAGRAM

Electrical Plan Review
 City of Salem
 Approved by: SKM
 Date: 08/11/08

PERMIT NO.	DATE ISSUED
ADDRESS: <u>156 Front St. NE</u>	BLDG. DEPT
APPROVED	FILED DATE
APPROVED AS	
CORRECTED	



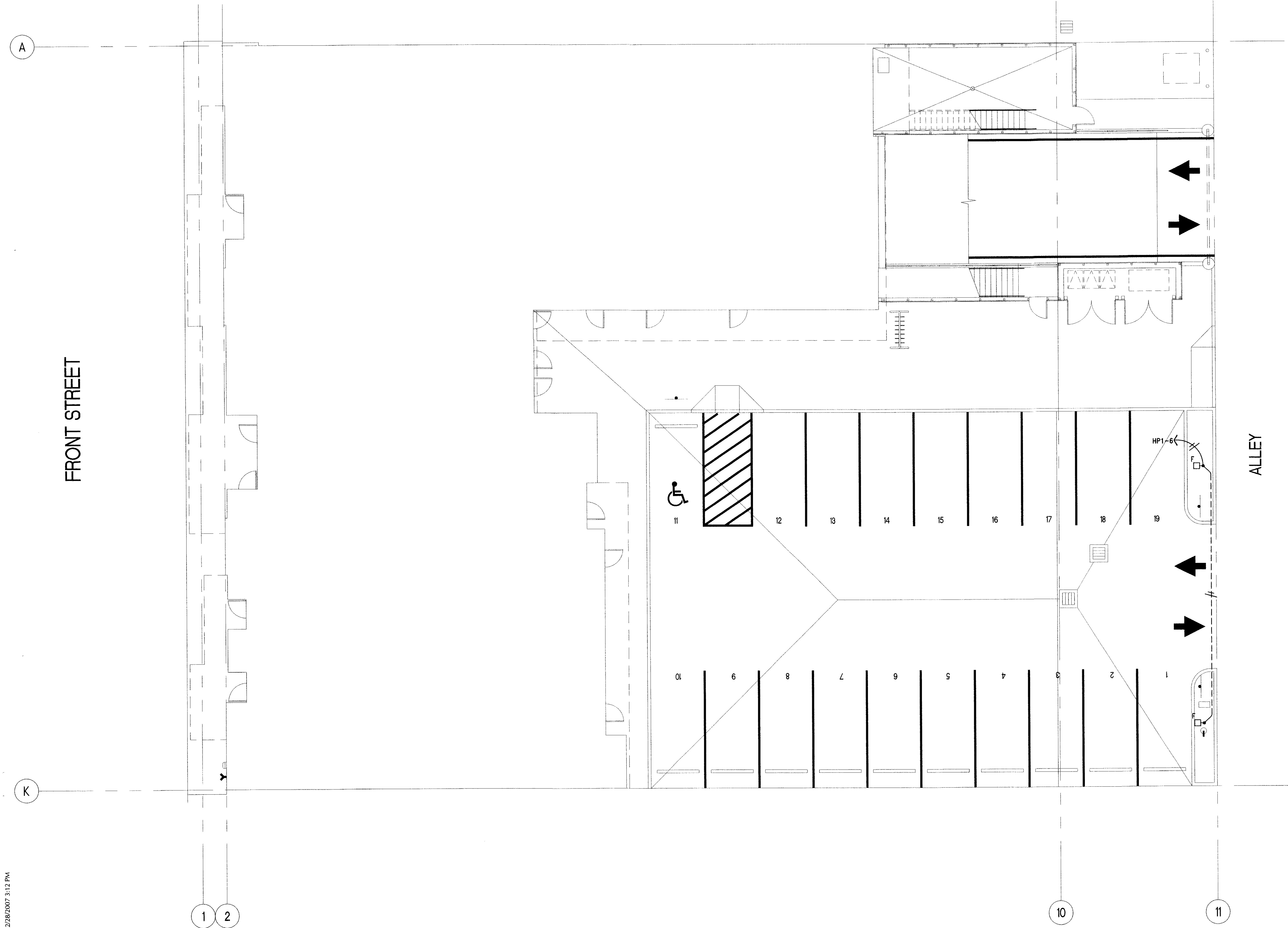
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 SALEM, OREGON

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	XX
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MKE JOB #:	KM-2653
ELECTRICAL COVER SHEET	

E100

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1 ELECTRICAL SITE PLAN
 E101 SCALE: 1/8"=1'-0"

0 4' 8' 16'

City of Salem
 Approved
 Bldg. & Safety Div.

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ELECTRICAL

SITE PLAN

E101

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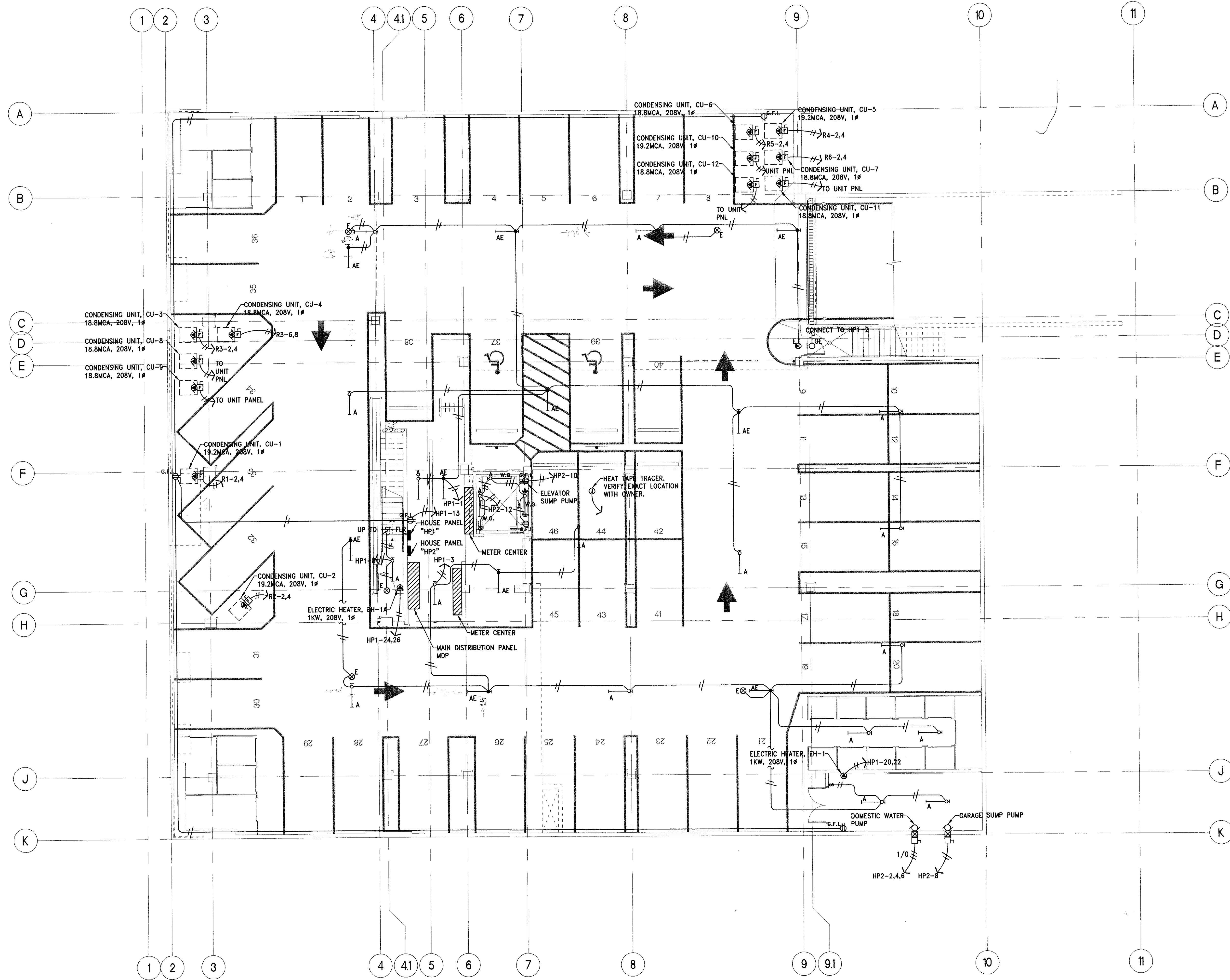
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PARKING LEVEL
ELECTRICAL
FLOOR PLAN

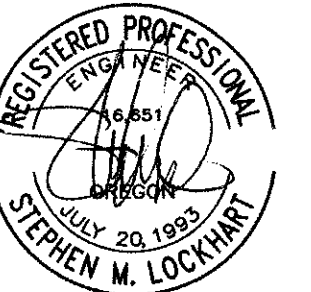
E200



1 PARKING LEVEL ELECTRICAL FLOOR PLAN
E200 SCALE: 1/8"=1'-0"



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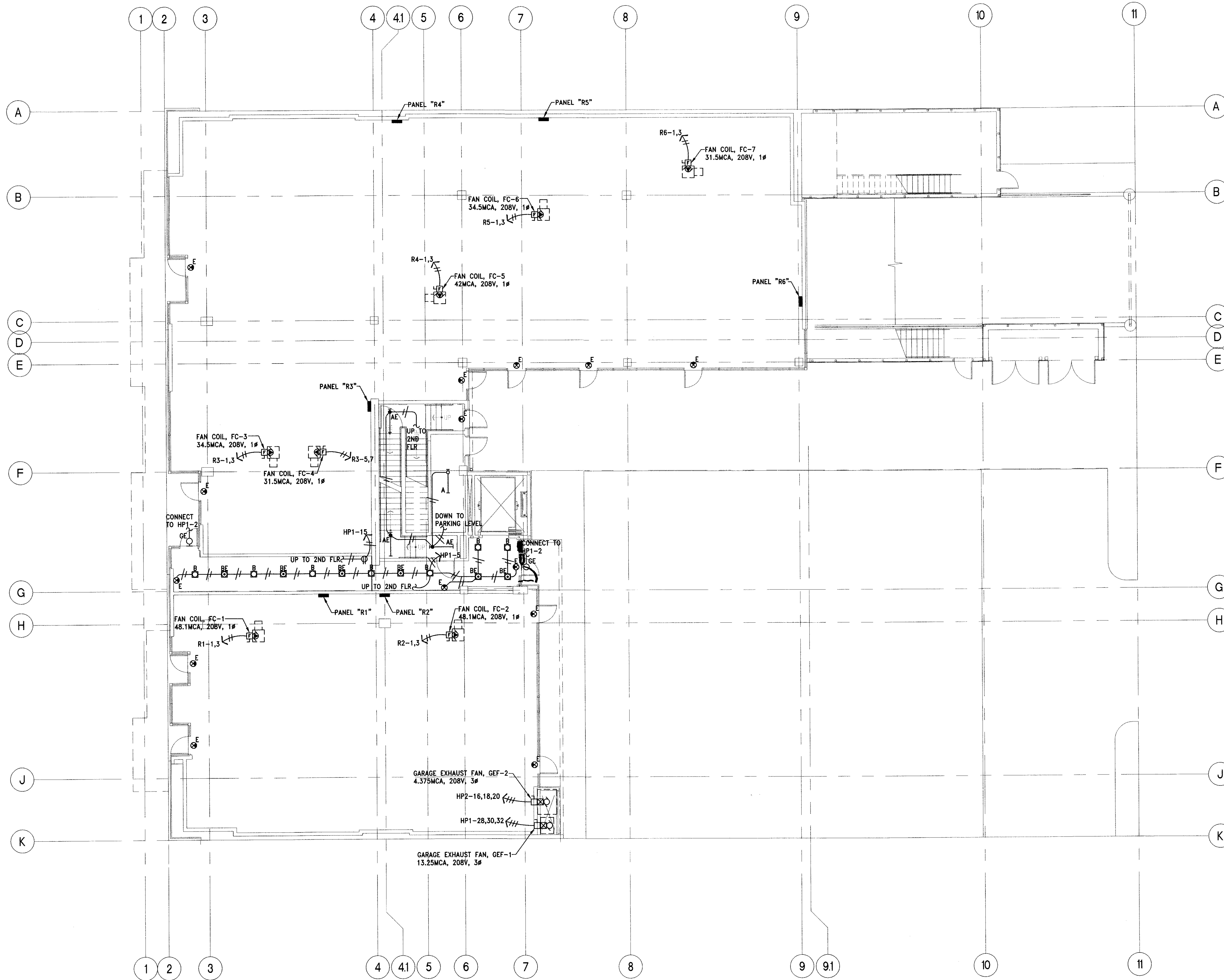
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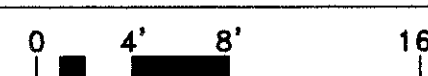
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LEVEL 1
ELECTRICAL
FLOOR PLAN

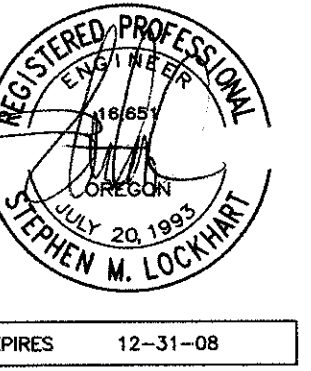
E201



1 LEVEL 1 ELECTRICAL FLOOR PLAN
E201 SCALE: 1/8"=1'-0"



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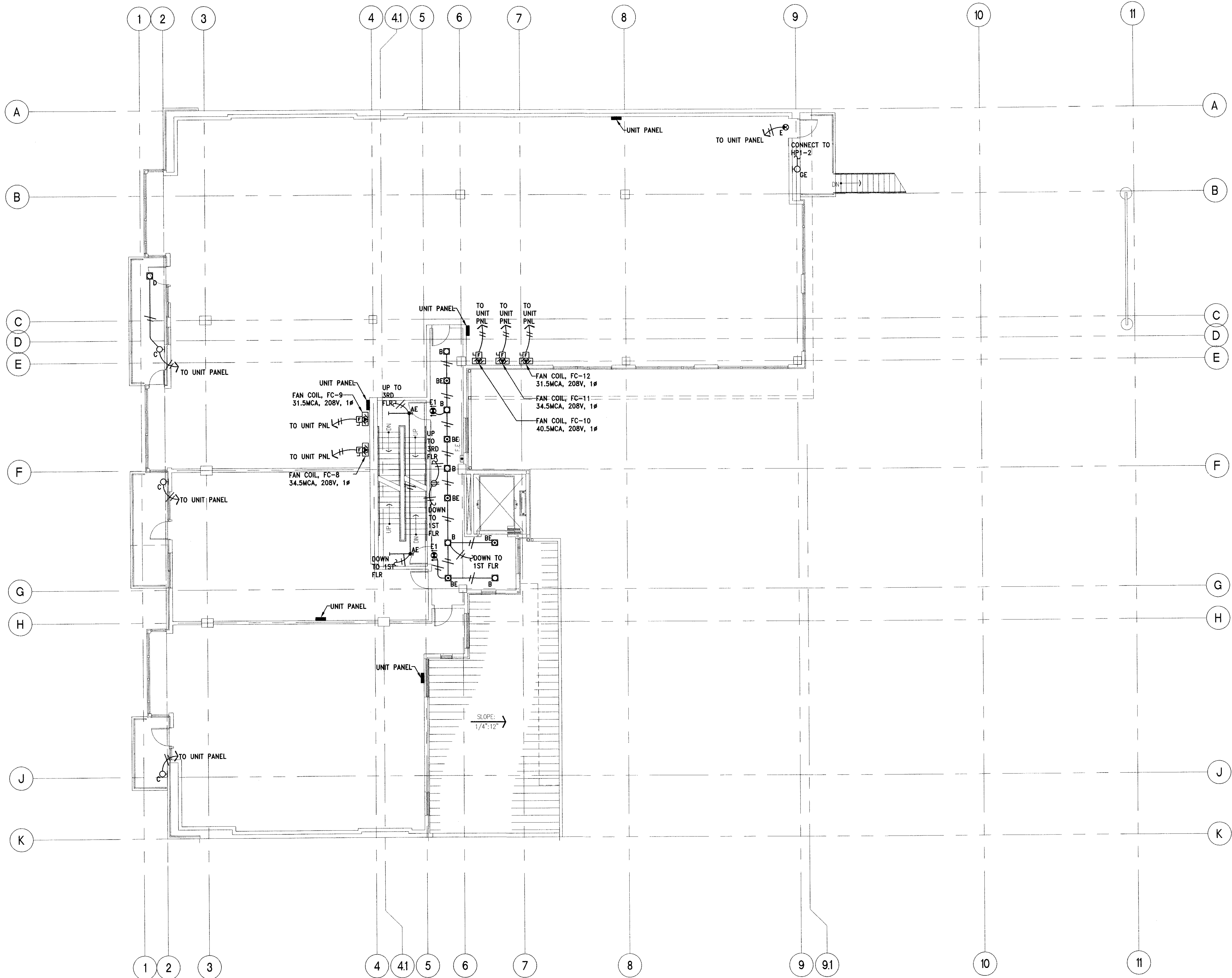
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**LEVEL 2
ELECTRICAL
FLOOR PLAN**

E202

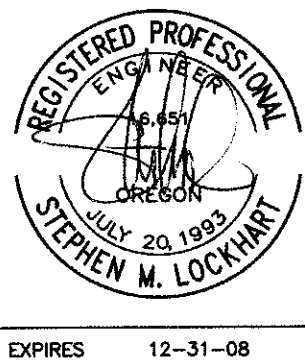
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1 LEVEL 2 ELECTRICAL FLOOR PLAN
E202 SCALE: 1/8"=1'-0"

0 4' 8' 16'

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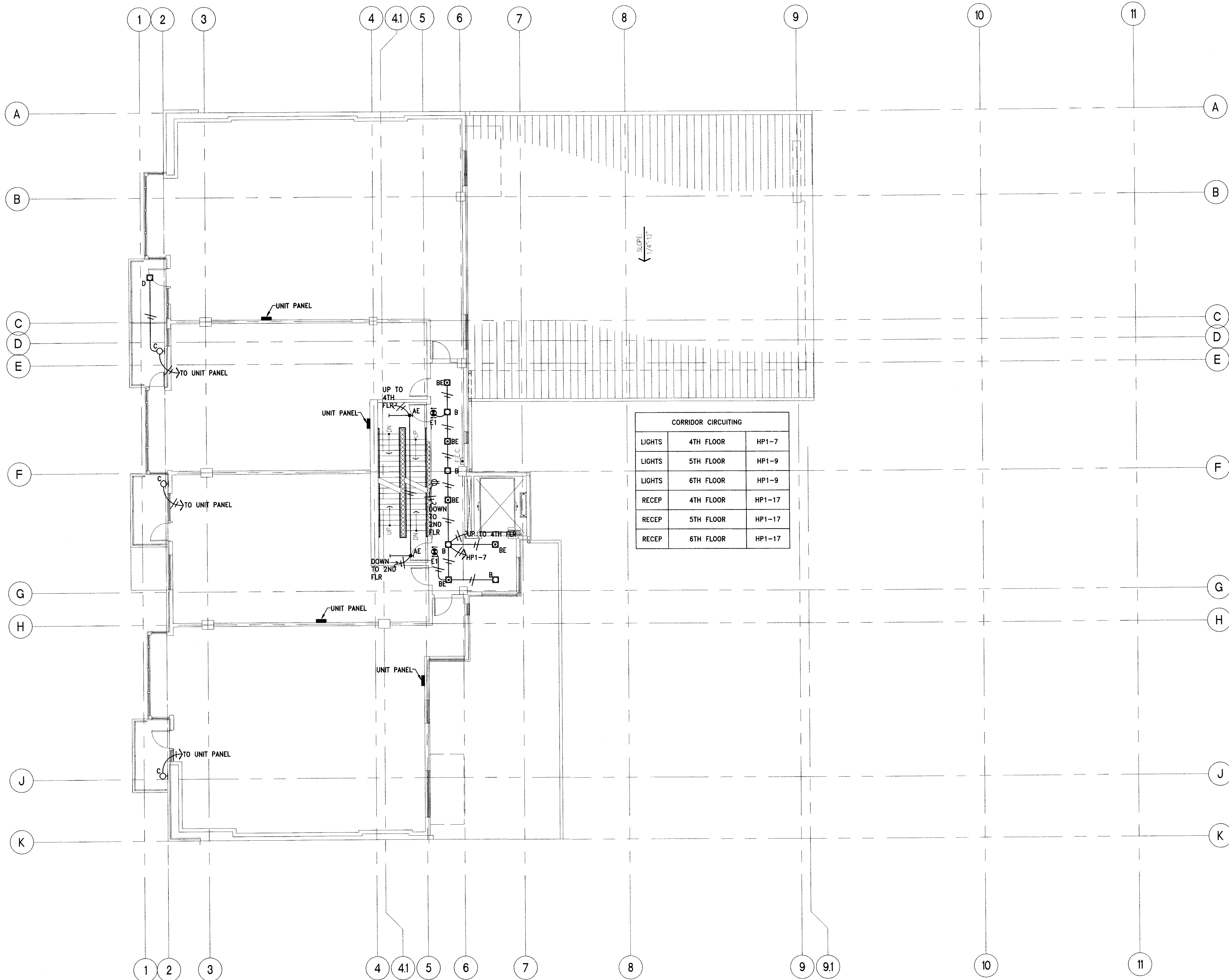
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LEVEL 3

ELECTRICAL

FLOOR PLAN

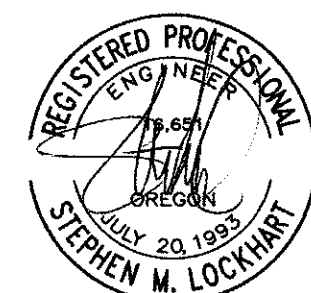
E203



1 LEVEL 3 ELECTRICAL FLOOR PLAN (LEVEL 4-6 SIMILAR)
E203 SCALE: 1/8"=1'-0"



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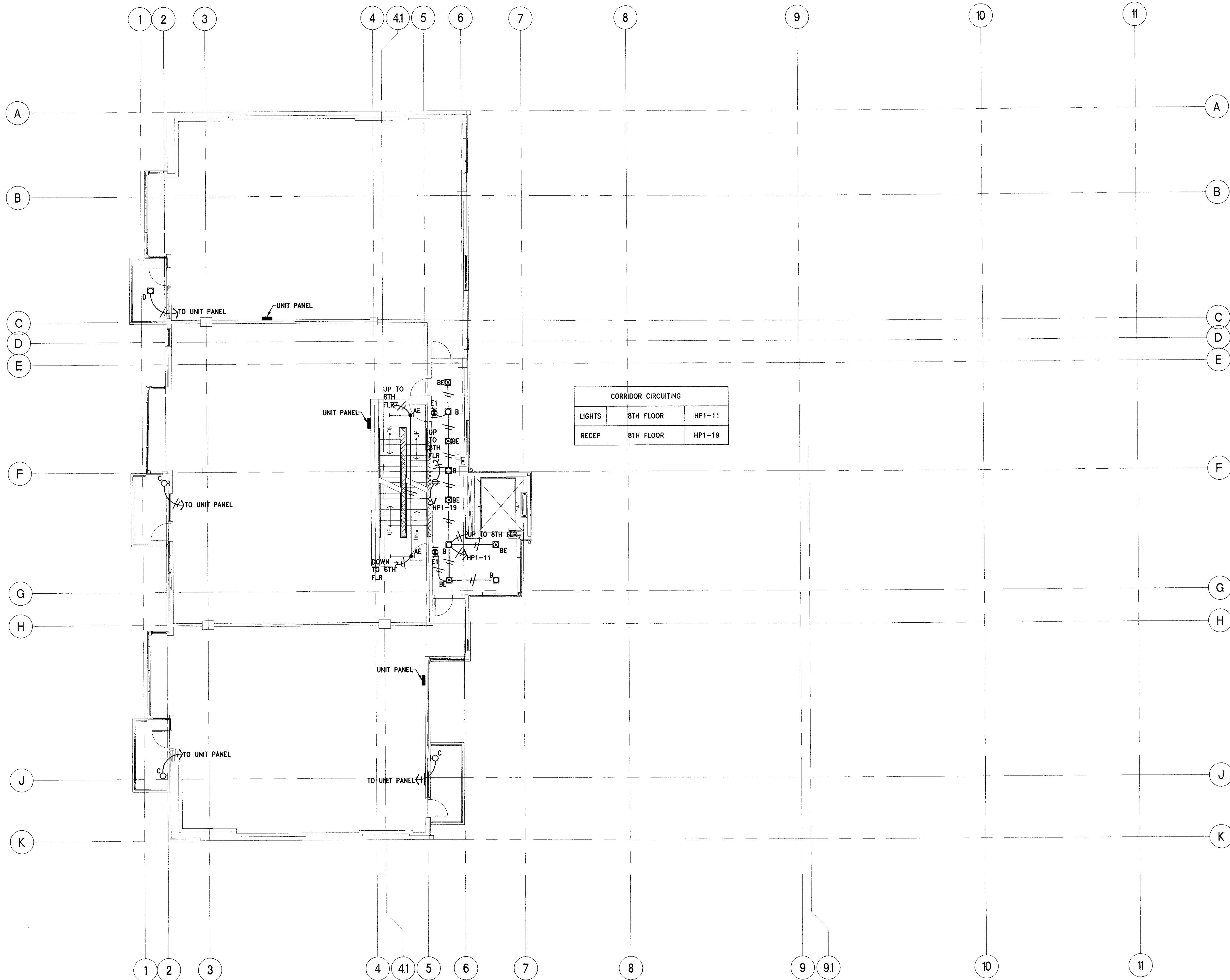
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LEVEL 7
ELECTRICAL
FLOOR PLAN

E207



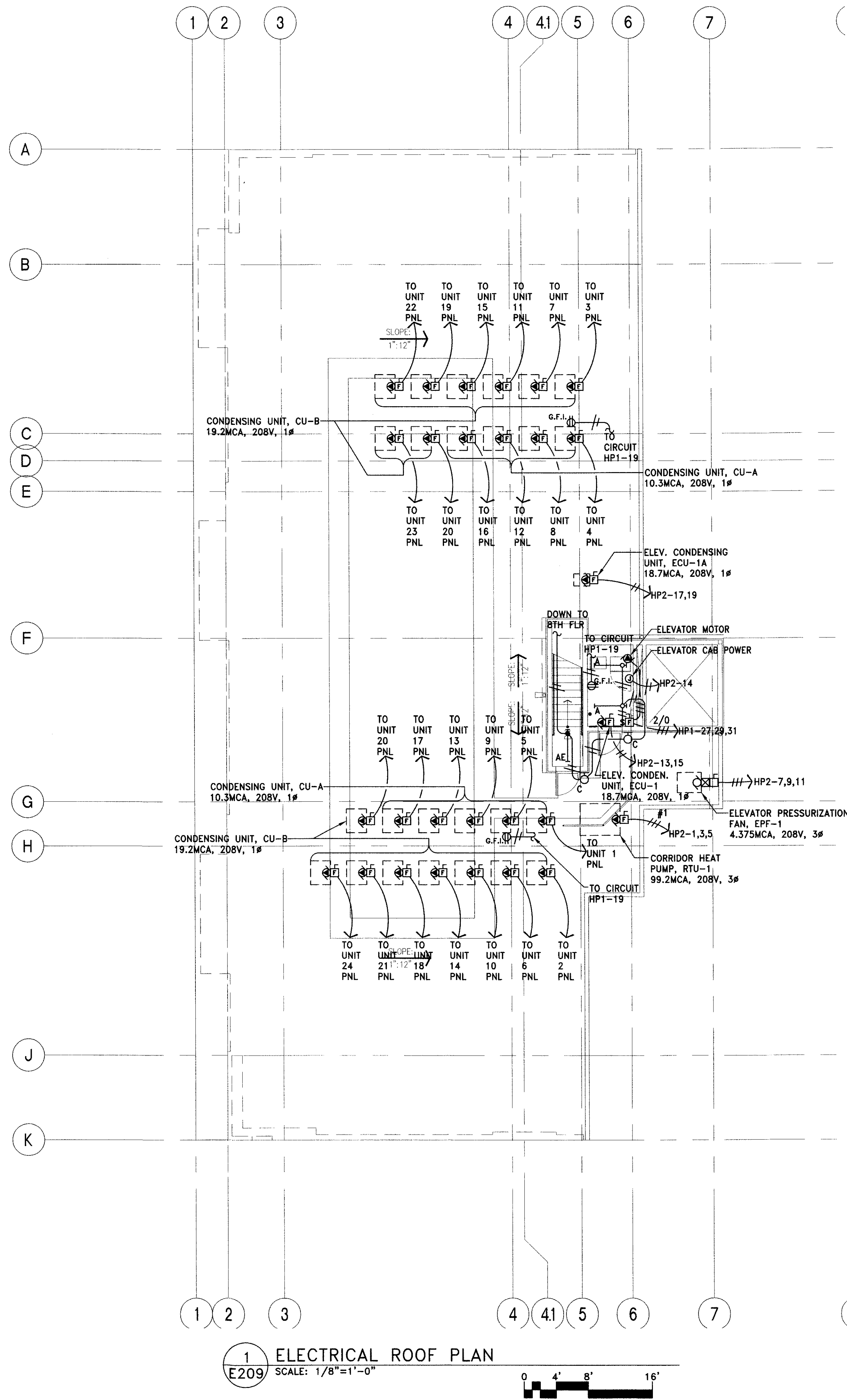
1 LEVEL 7 ELECTRICAL FLOOR PLAN (LEVEL 8 SIMILAR)
E207 SCALE: 1/8"=1'-0"

0 4' 8' 16'

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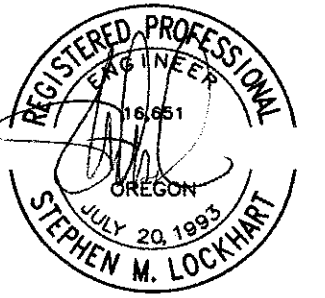
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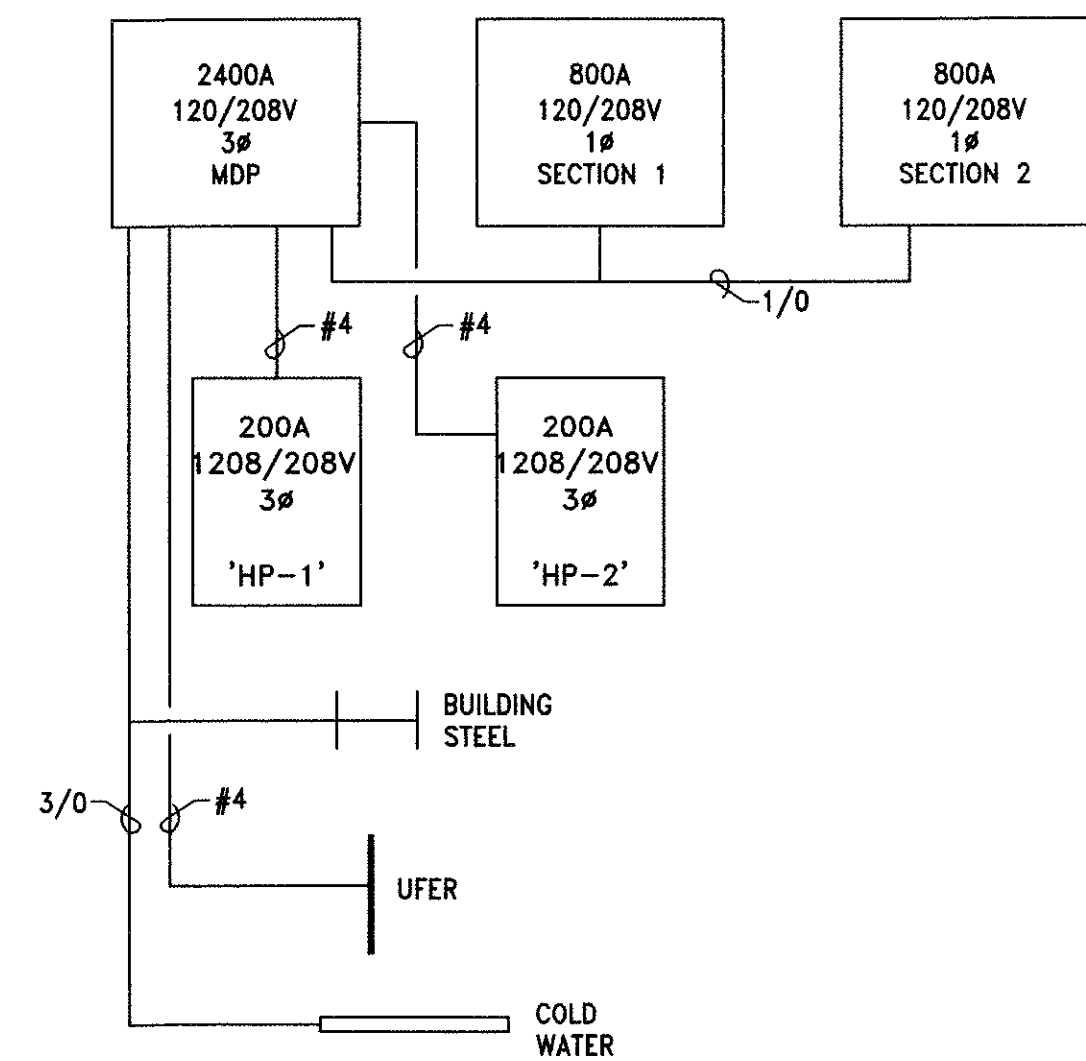
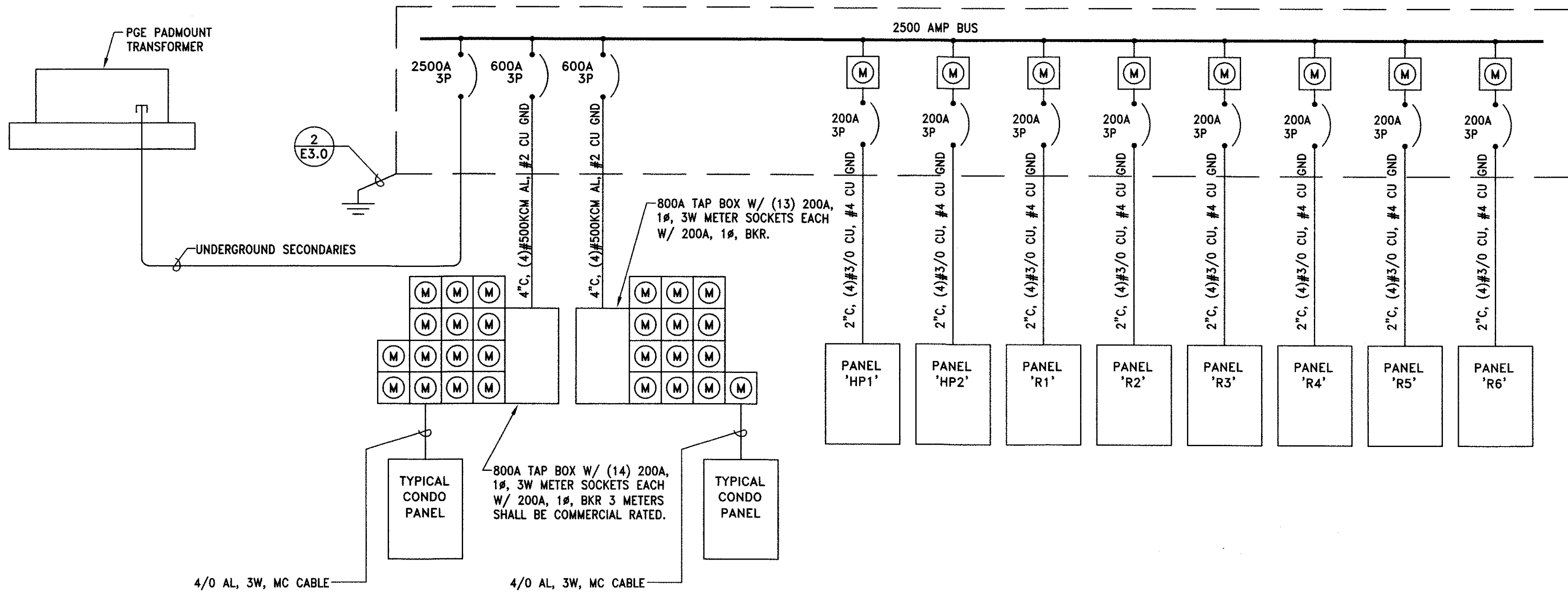
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ELECTRICAL

ROOF PLANS

E209

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PANEL SCHEDULE											
PANEL: HOUSE PANEL 1 (HP1)						M&E & ASSOCIATES, INC.			MOUNTING		
LOC:						CODE: 208					
						VOLTS 120/208			PHASE 3		
						WIRE 4			BUS & MAIN 200A		
C	DESCRIPTION	VA	AP	No.	A B C	No.	AP	VA	DESCRIPTION	C	
1	GARAGE LTS	806	201	1	*	2	201	300	EXTERIOR LTS	1	
1	GARAGE LTS	806	201	3	*	4	201		EXTERIOR LTS (FUTURE)	1	
1	CORRIDOR LTS (LVL 1,2)	736	201	5	*	6	201	920	PARKING LOT LTS	1	
1	CORRIDOR LTS (LVL 3,4)	576	201	7	*	8	201	1564	STAIRWELL LTS	1	
1	CORRIDOR LTS (LVL 5,6)	576	201	9	*	10	201		FRONT GATE	7	
1	CORRIDOR LTS (LVL 7,8)	576	201	11	*	12	201	1200	HEAT TAPE (RISOR RM)	7	
2	GARAGE REC	720	201	13	*	14	201	1200	HEAT TAPE (RISOR RM)	7	
2	CORRIDOR REC (LVL 1,2,3)	540	201	15	*	16	201	1200	HEAT TAPE (FIRE SPR)	7	
2	CORRIDOR REC (LVL 4,5,6)	540	201	17	*	18	201	1200	HEAT TAPE (FIRE SPR)	7	
2	CORRIDOR REC (LVL 7,8)	900	201	19	*	20	202	500	EH-1	5	
	SPARE		201	21	*	22	*	500	*	5	
7	FIRE ALARM	600	201	23	*	24	202	500	EH-1A	5	
7	FIRE DAMPERS	1000	201	25	*	26	*	500	*	5	
6	ELEVATOR MOTOR	11048	2003	27	*	28	250	1273	GARAGE EXHAUST (1)	6	
6	*	11048	*	29	*	30	*	1273	*	6	
6	*	11048	*	31	*	32	*	1273	*	6	
				33	*	34					
				35	*	36					
				37	*	38					
				39	*	40					
				41	*	42					
LOAD CODE (VA)						PH A		PH B		PH C	
TOTAL (VA)						TOTAL (VA)		FACTOR		CODE LOAD	
1. LIGHTS:						3,246		1,382		2,232	
2. RECEPTACLE:						1,620		540		540	
3. HEATING:						0		0		0	
4. KITCHEN:						0		0		0	
5. EQUIPMENT:						1,000		500		500	
6. MOTORS:						12,321		12,321		36,963	
7. MISC:						2,200		1,200		3,000	
TOTAL (VA):						20,387		15,843		18,593	
						64,923				64,924	
LARGEST MOTOR:						11,048 VA		TOTAL LOAD:		153 A	
# KITCHEN EQUIPMENT						0					
NOTES:											
* FIRST 10 KVA + 50% OF THE BALANCE											
** 125% OF THE LARGEST MOTOR + THE BALANCE											

PANEL SCHEDULE											
PANEL: HOUSE PANEL 2 (HP2)						MKE & ASSOCIATES, INC.			MOUNTING		
LOC:						CODE: 208					
VOLTS 120/208						PHASE 3			WIRE 4		
									BUS & MAIN 200A		
C	DESCRIPTION	VA	AP	No.	A B C	No.	AP	VA	DESCRIPTION	C	
5	CORR. HEAT PUMP(RTU-1)	4443	1003	1	*	2	2003	11048	DOMESTIC WATER PUMP	6	
5	"	4443	*	3	*	4	*	11048	"	6	
5	"	4443	*	5	*	6	*	11048	"	6	
6	ELEV. PRESS. FAN	420	203	7	*	8	201	600	GARAGE SUMP PUMP	6	
6	"	420	*	9	*	10	201	600	ELEVATOR SUMP PUMP	6	
6	"	420	*	11	*	12	201	366	ELEV. PIT LT AND REC	7	
5	ECU-1	1945	303	13	*	14	201	600	ELEVATOR CAB POWER	1	
5	"	1945	*	15	*	16	203	420	GARAGE EXHAUST (2)	6	
5	ECU-1A	1945	303	17	*	18	*	420	"	6	
5	"	1945	*	19	*	20	*	420	"	6	
				21	*	22					
				23	*	24					
				25	*	26					
				27	*	28					
				29	*	30					
				31	*	32					
				33	*	34					
				35	*	36					
				37	*	38					
				39	*	40					
				41	*	42					
<u>LOAD CODE (VA)</u>						<u>PH A</u>		<u>PH B</u>		<u>PH C</u>	
<u>TOTAL (VA)</u>						<u>FACTOR</u>		<u>CODE LOAD</u>			
1. LIGHTS						600		0		600	
2. RECEPTACLE:						0		0		0	
3. HEATING:						0		0		0	
4. KITCHEN:						0		0		0	
5. EQUIPMENT:						8,333		6,386		21,109	
6. MOTORS:						12,488		11,888		36,864	
7. MISC.						0		366		366	
TOTAL (VA):						21,421		18,876		58,939	
LARGEST MOTOR:						11,048 VA		TOTAL LOAD:		164 A	
# KITCHEN EQUIPMENT						0				CODE DEMAND:	
										187 A	
						NOTES:					
						* FIRST 10 KVA + 50% OF THE BALANCE					
						** 125% OF THE LARGEST MOTOR + THE BALANCE					

MULTIPLE FAMILY CALCULATION											
PROJECT: Rivers Condos											
DESCRIPTION: 27 UNIT APARTMENT BUILDING											
FEEDER CALCULATIONS:											
(1) LIGHTING & APPLIANCE LOAD											
a. UNIT	TYPE A	SQ FT	1107	X	9	=	9963	X3 UNITS	=	29889	VA
b. UNIT	TYPE B	SQ FT	1719.5	X	13	=	22353.5	X3 UNITS	=	67060.5	VA
c. UNIT	TYPE C	SQ FT	2214	X	2	=	4428	X3 UNITS	=	13284	VA
d. UNIT	OFFICE SPACE	SQ FT	5507	X	1	=	5507	X3 UNITS	=	16521	VA
(2) KITCHEN APPLIANCE CIRCUITS											
			3000	VA	X	27			UNITS =	81000	VA
(3) LAUNDRY CIRCUIT IF APPLICABLE											
			1500	VA	X	27			UNITS =	40500	VA
(4) DISHWASHER CIRCUIT IF APPLICABLE											
			1200	VA	X	27			UNITS =	32400	VA
(5) DISPOSAL CIRCUIT IF APPLICABLE											
			750	VA	X	27			UNITS =	20250	VA
(6) RANGES - NAMEPLATE											
			11000	VA	X	27			UNITS =	297000	VA
(7) DRYERS - NAMEPLATE											
			5000	VA	X	27			UNITS =	135000	VA
(8) HOT WATER TANKS - NAMEPLATE											
			4500	VA	X	27			UNITS =	121500	VA
(9) ELECTRIC HEAT OR AIR COND (LARGEST LOAD)											
a. UNIT	TYPE A	3500	VA	X	9				UNITS =	31500	VA
b. UNIT	TYPE B	3500	VA	X	13				UNITS =	45500	VA
c. UNIT	TYPE C	3500	VA	X	2				UNITS =	7000	VA
d. UNIT	OFFICE SPACE	10500	VA	X	1				UNITS =	10500	VA
(10) NET COMPUTED LOAD										948904.5	VA
(11) NEC TABLE 220-32 DEMAND FACTOR										0.34	
(12) NET DEMAND										322627.53	VA
NET LOAD										895,52448	AMPS

LOAD SUMMARY		
RESIDENT LOAD		322,628
HOUSE LOAD		
HP1		84,924
HP2		67,375
TOTAL		454,927
1263AMPS @208V, 3PH		

City of Salem
Approved
Bldg. & Safety Div.

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