

1
E1.00
ELECTRICAL UTILITY SITE PLAN
SCALE: 1" = 30'-0"

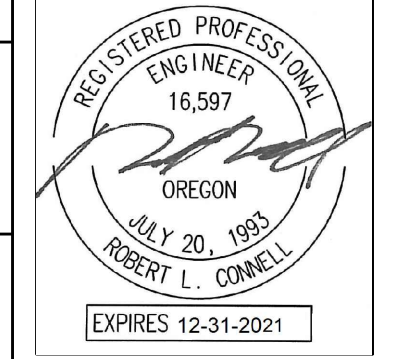
GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. COORDINATE WITH UTILITY PROVIDER AND CIVIL ENGINEERING FOR PREFERRED TRANSFORMER LOCATIONS.
- C. REFER TO CIVIL UTILITY PLANS FOR EXACT LOCATION OF TRANSFORMERS, VAULTS AND UNDERGROUND CONDUIT ROUTING PATHS.
- D. UNDERGROUND PRIMARY FEEDERS SHALL HAVE A MINIMUM 48" BURY.
- E. UNDERGROUND SECONDARY FEEDERS SHALL HAVE A MINIMUM 36" BURY.
- F. REFER TO SHEETS E1.2 - E1.3 FOR ELECTRICAL ONE-LINE DIAGRAMS AND FEEDER SCHEDULES.
- G. LOCATION AND INSTALLATION OF PRIMARY AND SECONDARY CONDUIT SWEEPS SHALL HAVE A MINIMUM RADIUS OF 60", WITH A MINIMUM OF 7'-0" OF STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- H. SECONDARY CONDUITS, TRANSFORMERS AND VAULTS SHALL BE PROVIDED PER PGE REQUIREMENTS.
- I. REFER TO CIVIL ENGINEERING PLANS FOR EXISTING UTILITY CONDITIONS.
- J. REFER TO BUILDING POWER PLANS FOR SERVICE ENTRANCE AND METER LOCATIONS.
- K. REFER TO SHEET E1.6 FOR LIGHT FIXTURE SCHEDULE AND DETAILS.
- L. PROVIDE PROTECTIVE BOLLARDS PER PGE REQUIREMENTS AT PAD MOUNTED UTILITY TRANSFORMERS.

GENERAL NOTES:

- 1. ELECTRICAL SERVICE ENTRANCE & METER LOCATION. REFER TO SHEET E3.01 FOR EXACT LOCATION (TYPICAL FOR EACH RESIDENTIAL BUILDING).
- 2. REFER TO SHEET E4.01 FOR EXACT LOCATION OF ELECTRICAL SERVICE ENTRANCE & METER EQUIPMENT.
- 3. REFER TO LANDSCAPE PLANS FOR SCREENING AROUND TRANSFORMERS.
- 4. PROVIDE ONE 20A, 10V, 1P CIRCUIT IN ONE 1" SCHEDULE 40 PVC CONDUIT, ROUTED FROM THE NEAREST HOUSE PANEL TO THE WATER VAULT FOR SUMP PUMP POWER. REFER TO PANEL SCHEDULES FOR MORE INFORMATION. COORDINATE WITH CIVIL.

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1	04.27.2020 REVS
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BASELINE APARTMENTS
20711 SE STARK ST
GRESHAM OR 97030

ADW #
16010.00

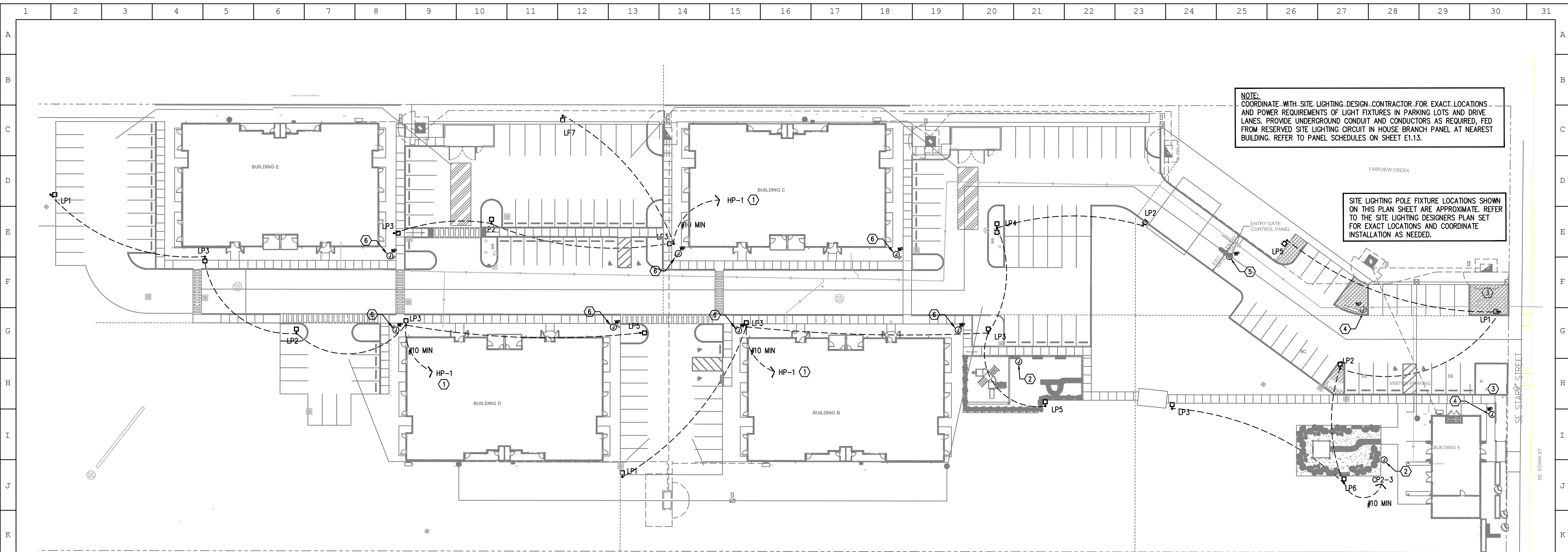
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**ELECTRICAL
UTILITY
SITE PLAN**

Date 2017.12.12
Drawn DMT
Checked RLC

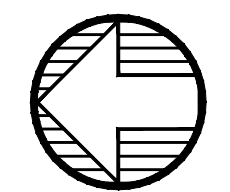
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**M
F
A
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2007 S.E. Ash St.
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PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR



NOTE:
 COORDINATE WITH SITE LIGHTING DESIGN CONTRACTOR FOR EXACT LOCATIONS AND POWER REQUIREMENTS OF LIGHT FIXTURES IN PARKING LOTS AND DRIVE LANES. PROVIDE UNDERGROUND CONDUIT AND CONDUCTORS AS REQUIRED, FED FROM RESERVED SITE LIGHTING CIRCUIT IN HOUSE BRANCH PANEL AT NEAREST BUILDING. REFER TO PANEL SCHEDULES ON SHEET E1.13.

SITE LIGHTING POLE FIXTURE LOCATIONS SHOWN ON THIS PLAN SHEET ARE APPROXIMATE. REFER TO THE SITE LIGHTING DESIGNERS PLAN SET FOR EXACT LOCATIONS AND COORDINATE INSTALLATION AS NEEDED.



1 SITE POWER & LIGHTING PLAN
 E1.01 SCALE: 1" = 30'-0"

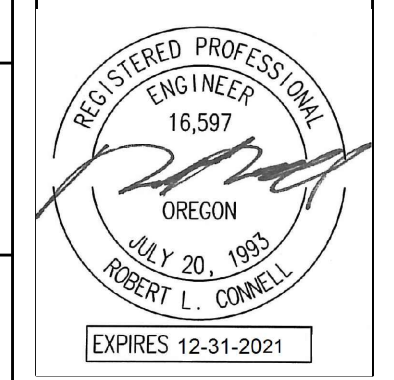
GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. REFER TO CIVIL ENGINEERING PLANS FOR EXISTING UTILITY CONDITIONS.
- C. REFER TO BUILDING POWER PLANS FOR SERVICE ENTRANCE AND METER LOCATIONS.
- D. REFER TO SHEET E1.22 FOR LIGHT FIXTURE SCHEDULE AND DETAILS.
- E. REFER TO SHEET E2.01 & E4.01 FOR TYPE AND LOCATION OF BUILDING MOUNTED EXTERIOR LIGHT FIXTURES
- F. CONSULT SITE LIGHTING PLANS BY OTHERS AND COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF ALL POLE MOUNTED AREA LIGHTS. SITE LIGHTING SHALL BE CIRCUITED TO THE NEAREST HOUSE PANEL. REFER TO THE TYPICAL PANEL SCHEDULES FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL POWER CONNECTION.

○ GENERAL NOTES:

- 1. CIRCUIT EXTERIOR SITE LIGHTING TO NEAREST HOUSE PANEL AS INDICATED. REFER TO PANEL SCHEDULES FOR TYPICAL CIRCUIT DESIGNATION(S).
- 2. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION AS INDICATED FOR LOW VOLTAGE LANDSCAPE LIGHTING PROVIDED BY OTHERS. CONTRACTOR TO CONSULT WITH LANDSCAPE DESIGNER FOR EXACT LOCATION OF DEVICES AND ROUTING OF LV CONDUCTORS PRIOR TO ROUGH IN. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL POWER CONNECTIONS AS REQUIRED.
- 3. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR ONE WEATHERPROOF, GFCI RATED DUPLEX RECEPTACLE AT EACH WATER VAULT, AS DIRECTED BY THE CIVIL ENGINEER, FOR SUMP PUMP CONNECTION. ROUTE CONDUCTORS IN 3/4" PVC CONDUIT, UNDERGROUND, TO CLUB HOUSE PANEL "CP2". CONSULT CIVIL UTILITY PLANS FOR EXACT LOCATION AND COORDINATE ALL WORK WITH THE CIVIL CONTRACTOR.
- 4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR SIGN LIGHTING. ROUTE ONE 3/4" PVC CONDUIT, UNDERGROUND, FROM CLUBHOUSE BRANCH PANEL "CP2" TO LOCATIONS AS INDICATED AND TERMINATE AT WEATHERPROOF J-BOX. COORDINATE WITH SIGN INSTALLER FOR FINAL POWER CONNECTION.
- 5. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR MOTORIZED GATE. ROUTE ONE 3/4" PVC CONDUIT, UNDERGROUND, FROM CLUBHOUSE BRANCH PANEL "CP2" TO LOCATION INDICATED AND TERMINATE AT WEATHERPROOF J-BOX. COORDINATE WITH GATE INSTALLER FOR FINAL POWER CONNECTION.
- 6. ROUTE ONE 20A, 120V, 1P CONDUCTOR IN A 3/4" PVC CONDUIT, UNDERGROUND, FROM EACH BUILDING'S BRANCH PANEL TO LOCATION INDICATED AND TERMINATE AT WEATHERPROOF J-BOX FOR "WAY FINDING" SIGNS AND COORDINATE FINAL ELECTRICAL CONNECTION WITH SIGN INSTALLER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING LOCATION AND INSTALLATION DETAILS.

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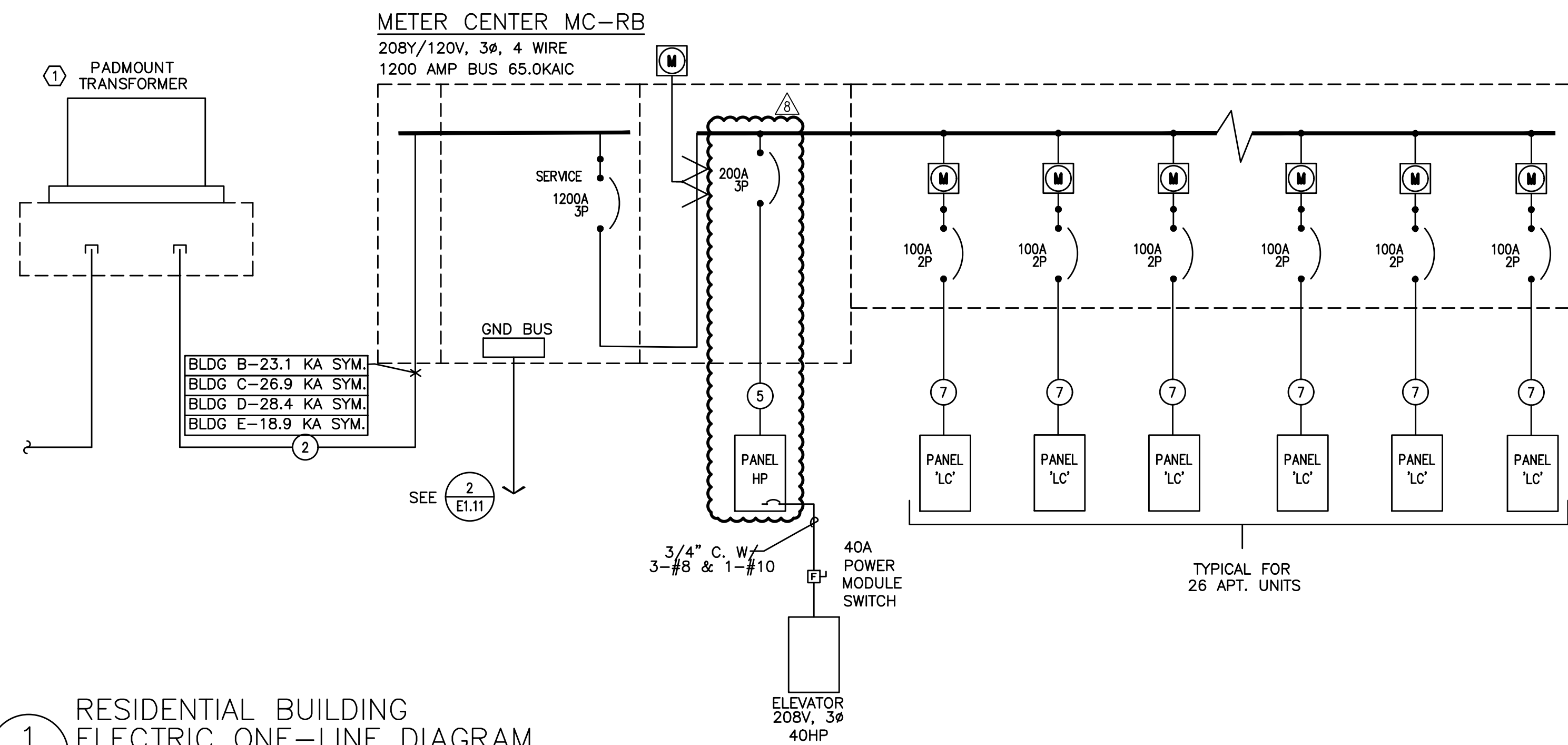
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SITE POWER & LIGHTING PLAN

Date 2017.12.12
 Drawn DMT
 Checked RLC

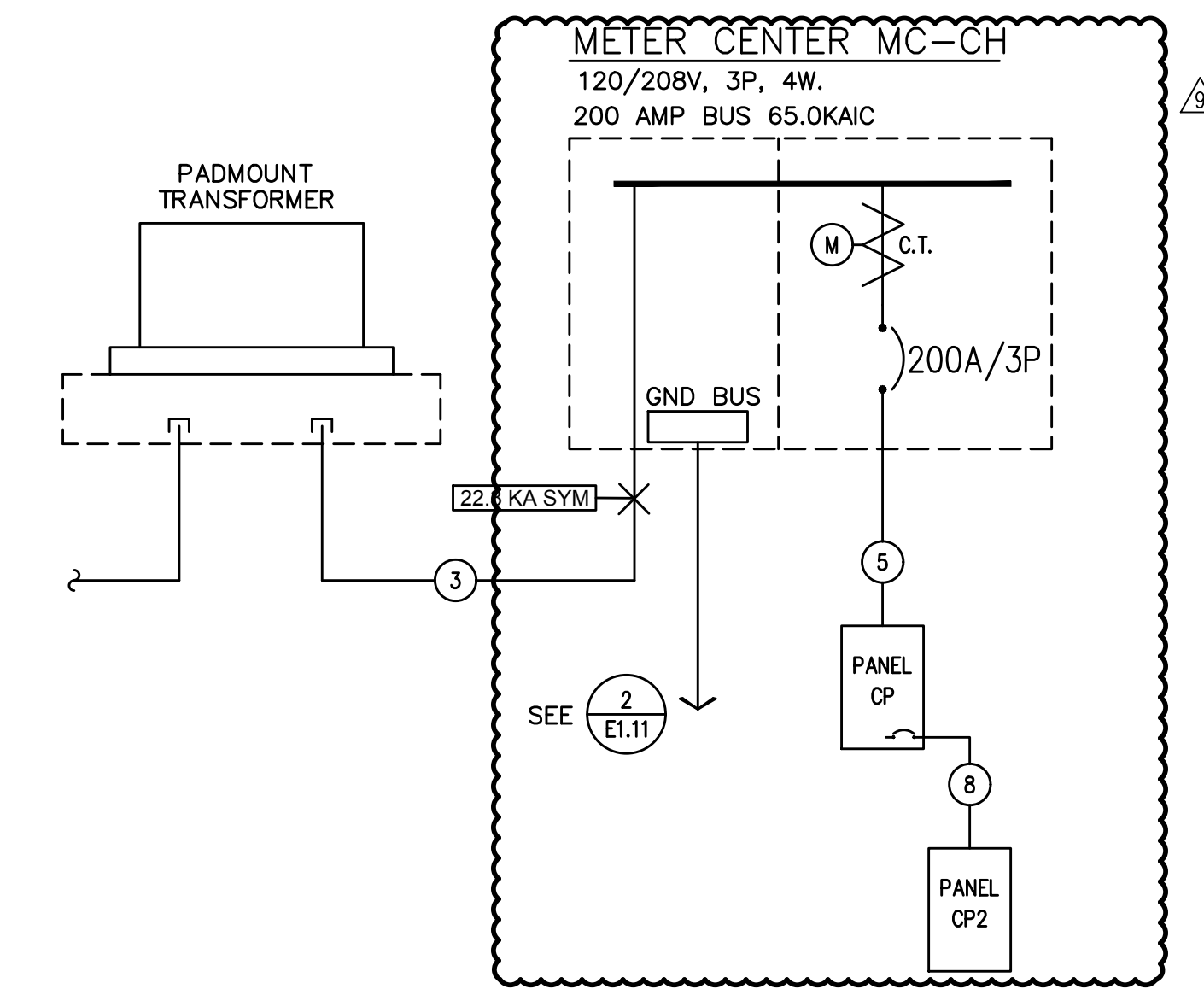
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1
RESIDENTIAL BUILDING
ELECTRIC ONE-LINE DIAGRAM
120/208V, 3P, 4W

TYPICAL FOR (4)FOUR RESIDENTIAL BUILDINGS



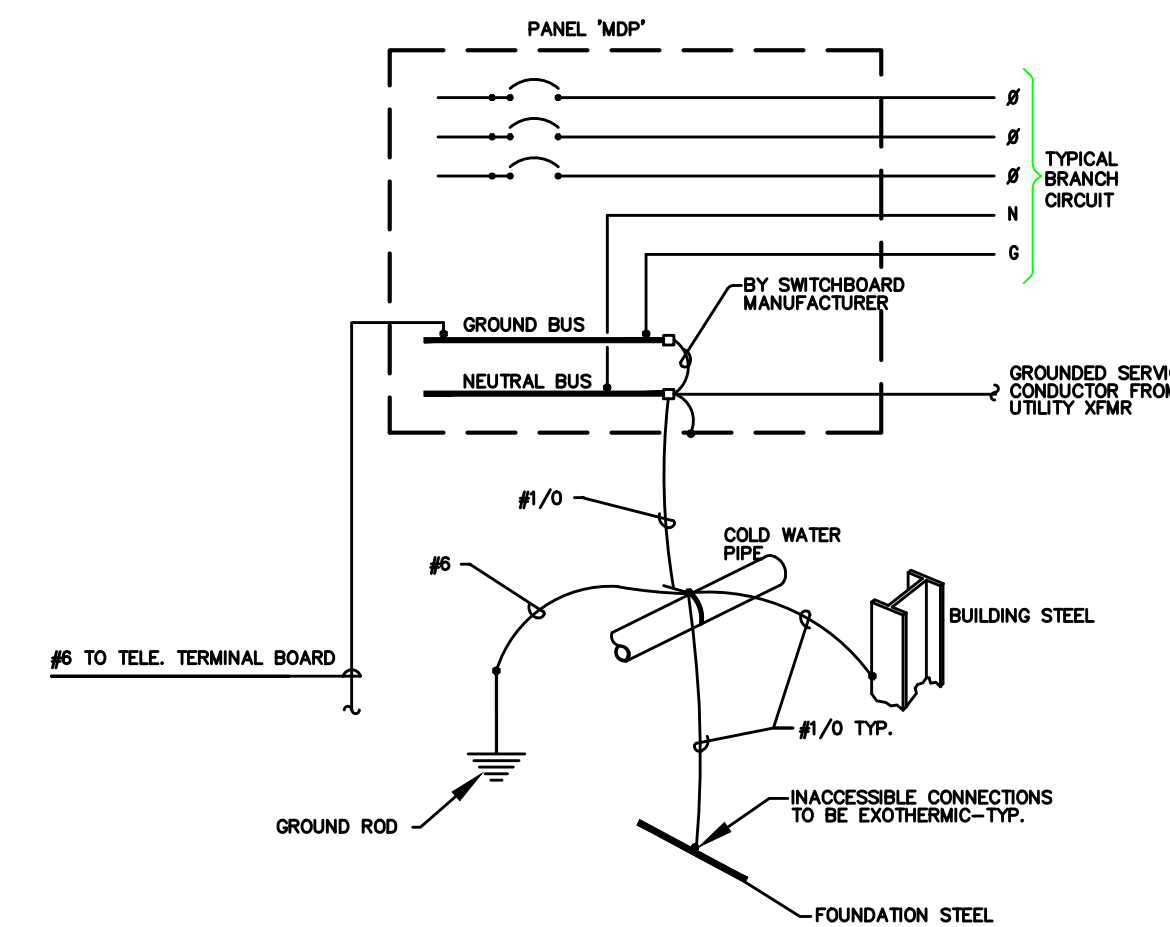
2
CLUB HOUSE
ELECTRIC ONE-LINE DIAGRAM
120/208V, 3P, 4W

FEEDER SCHEDULE (COPPER)			
NO.	AMPS	CONDUIT	CONDUCTOR
1		*(5) 4"	BY UTILITY CO. & (1) GND
2	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
3	800A	*(2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 GND
4	400A	3 1/2"	(4) #500Kcmil & (1) #3 GND
5a	250A	2 1/2"	(4) #250KCMIL & (1) #4 GND
5	200A	2"	(4) #3/0 & (1) #6 GND
6	150A	2"	(3) #1/0 & (1) #6 GND
7	100A	1 1/2"	(4) #1 & (1) #8 GND
8	60A	1 1/4"	(4) #4 & (1) #10 GND

* PARALLEL FEEDER

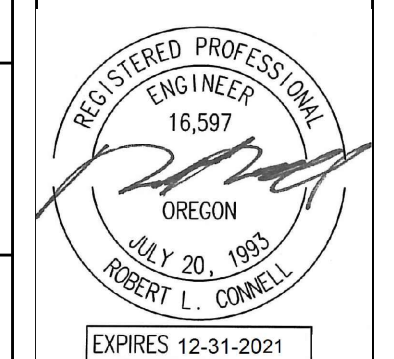
ONE-LINE GENERAL NOTES:

- A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- B. COORDINATE METERING REQUIREMENTS WITH UTILITY.
- C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
- D. REFER TO SHEET E1.12 FOR LOAD SUMMARY INFORMATION AND PANEL SCHEDULES.
- E. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.



3
GROUNDING/BONDING DIAGRAM
208Y/120V, 3P, 4 WIRE

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DESIGN CONSULT

ELECTRICAL SITE PLAN

Date 2017.12.12
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Baseline Apartments Meter Center MC-RB (typical for four buildings)							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
House Loads	15,625	5,640	2,000		3,500	36,826	
Elevator (40hp)						43,200	43,200
Residential Loads				287,000			
SUBTOTAL	15,625	5,640	2,000	287,000	3,500	80,026	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	19,531	5,640	2,000	287,000	3,500	80,026	10,800

CONN LOAD: 437 KVA

VOLTS: 208 3ph
TOTAL CALC: 408 KVA
CALC AMPS: 1134 AMPS

MFA PANEL SCHEDULE									
panel HP	mounting SURFACE-NEMA 3R	location RESID. BLDG. (TYP)	connected load amps						
voltage 120/208V	phase 3	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c
100A (SCCR: 42k) <td></td> <td>MLO</td> <td>160</td> <td colspan="6">calculated load amps 193</td>		MLO	160	calculated load amps 193					
service	va	a/p	no.	a/b/c	no.	a/p	va	service	C
1 LIGHTING - SITE	500	20/1	1	*	2	20/1	1080	RECEPT - 1ST FLOOR	2
1 FACP / FA BELL	500	20/1	3	*	4	20/1	1080	RECEPT - 2ND FLOOR	2
1 LIGHTING - BLDG EXTERIOR	500	20/1	5	*	6	20/1	1080	RECEPT - 3RD FLOOR	2
1 LIGHTING - 1ST FLOOR	500	20/1	7	*	8	20/1	720	RECEPT - 3RD FLR TERRACE	2
1 LIGHTING - 2ND FLOOR	300	20/1	9	*	10	20/1	600	ELEVATOR RT LITS & RECEPT	2
1 LIGHTING - 3RD FLOOR	300	20/1	11	*	12	20/1	640	RECEPT - ROOF GFCI - IRRIGATION	2
1 LIGHTING - 1ST FLR EGRESS	750	20/1	13	*	14	20/1	880	RECEPT - GFCI - 2ND	2
1 LIGHTING - 2ND FLR EGRESS	600	20/1	15	*	16	20/1	600	ELEVATOR RELIEF VENT	5
1 LIGHTING - 3RD FLR EGRESS	600	20/1	17	*	18	20/1	1500	LANDSCAPE (LV) LIGHTING	5
1 LIGHTING - 3RD FLR TERRACE	100	30/1	19	*	20	20/1	540	RECEPT - BLDG EXTERIOR	2
1 LIGHTS - STAIR #1	150	20/1	21	*	22	20/1	600		5
1 LIGHTS - STAIR #2	150	20/1	23	*	24	70/3	600		5
1 ELEVATOR CAB LIGHTS & FAN	1500	20/1	25	*	26	*	8400		6
3 WH-2	1500	20/1	27	*	28	*	8400		6
6 EF-2 (CRAWL SPACE)	130	20/1	29	*	30	20/1	500	ACCESS CONTROL SYSTEM	5
6 ELEVATOR	4800	40/3	31	*	32	20/1	540	ELEV SHAFT LITS & RECEPT	2
6 *	4800	*	33	*	34	20/1	250	ELEV CLOSET LITS & RECEPT	2
6 *	4800	*	35	*	36	*		BLANK	
BLANK			37	*	38			BLANK	
BLANK			39	*	40			BLANK	
BLANK			41	*	42			BLANK	
Phase A	19126	VA				line-line voltage			208
Phase B	20180	VA				largest motor (va)			208
Phase C	18200	VA				calculated load (va)			43200
Total Connected	57506	VA							
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)			
1. LIGHTS=	2350	1550	1250	VA	5150	1.25	6438		
2. RECEPT.=	2880	1930	1620	VA	6430	1 + 0.5	6430		
3. HEATING=	0	2000	0	VA	2000	1.00	2000		
4. KITCHEN=	0	0	0	VA	0	0.00	0		
5. EQUIP.=	0	1500	2000	VA	3500	1.00	3500		
6. MOTORS=	13896	13200	13330	VA	40426		51226		
7. MISC=	0	0	0	VA	0	1.00	0		
(* 125% of the largest motor + 100% of the balance) TOTAL = 69594									

Baseline Apartments Meter Center "MC-CH" (Club House)							
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	LARGEST MOTOR
Panel CHP1	10,000	10,080	8,220	5,500	6,000	14,756	7,114
SUBTOTAL	10,000	10,080	8,220	5,500	6,000	14,756	7,114
X-FACTOR	1.25	1 + .5	1	0.65	1	1	0.25
CODE LOAD:	12,500	10,040	8,220	3,575	6,000	14,756	1,779

CONN LOAD: 62 KVA

VOLTS: 208 3ph
TOTAL CALC: 57 KVA
CALC AMPS: 158 AMPS

MFA PANEL SCHEDULE									
panel CP	mounting SURFACE	location CLUB HOUSE	connected load amps						
voltage 120/208V	phase 3	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c
200A (SCCR: 42k)		MLO	141	calculated load amps 136					
service	va	a/p	no.	a/b/c	no.	a/p	va	service	C
1 SITE LIGHTING	500	20/1	1	*	2	20/1	1080	RECEPTACLES	2
1 LIGHTING - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1080	RECEPTACLES	2
1 LIGHTING - EGRESS	500	20/1	5	*	6	20/1	1080	RECEPTACLES	2
1 LIGHTING	1000	20/1	7	*	8	20/1	1500	RECEPTACLES	2
5 PACKAGE SYSTEM	1500	20/1	9	*	10	20/1	1500	RECEPTACLES	2
5 DRINK FOUNTAIN	1500	20/1	11	*	12	20/1	1500	RECEPTACLES	2
6 RP-1	528	20/1	13	*	14	20/1	900	RECEPTACLES	2
3 WH-1	1500	20/2	15	*	16	20/1	900	RECEPTACLES	2
3 *	1500	*	17	*	18	20/1	1080	RECEPTACLES	2
3 IHP/OHP-1	1382	20/2	19	*	20	20/1	1080	RECEPTACLES	2
3 *	1382	*	21	*	22	20/1	900	RECEPTACLES	2
3 IHP/OHP-2	1903	20/2	23	*	24	20/1	900	RECEPTACLES	2
3 *	1903	*	25	*	26	20/1	1080	RECEPTACLES	2
3 WH-2	1500	20/2	27	*	28	20/1	1500	REFRIGERATOR	4
3 *	1500	*	29	*	30	20/1	1500	REFRIGERATOR	4
5 IRRIGATION CONTROLS	900	20/1	31	*	32	20/1	1500	GATE CONTROLS	5
5 LANDSCAPE LIGHTING	500	20/1	33	*	34	20/1	1500	GATE CONTROLS	5
5 FAN	900	20/1	35	*	36	20/1	1500	GATE CONTROLS	5
6 IT-1 (typ of 2)	50	20/1	37	*	38	60/3	3000	PANEL CP2	7
5 TRAILER	1500	20/1	39	*	40	*	1500	*	7
SPARE	0	20/1	41	*	42	*	3000	*	7
Phase A	16003	VA				line-line voltage			208
Phase B	17262	VA				largest motor (va)			0
Phase C	17463	VA				calculated load (va)			0
Total Connected	50728	VA							
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)			
1. LIGHTS=	1500	500	500	VA	2500	1.25	3125		
2. RECEPT.=	5640	4380	4560	VA	14580	1 + 0.5	12290		
3. HEATING=	3285	4382	4903	VA	12570	1.00	12570		
4. KITCHEN=	0	1500	1000	VA	2500	1.00	2500		
5. EQUIP.=	2000	5000	3500	VA	10500	1.00	10500		
6. MOTORS=	578	0	0	VA	578	*	578		
7. MISC=	3000	1500	3000	VA	7500	1.00	7500		
(* 125% of the largest motor + 100% of the balance) TOTAL = 49063									

MFA PANEL SCHEDULE									
panel CP2	mounting SURFACE	location CLUB HOUSE	connected load amps						
voltage 120/208V	phase 3	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c	no. a/b/c
60A (SCCR: 42k)		MLO	29	calculated load amps 31					
service	va	a/p	no.	a/b/c	no.	a/p	va	service	C
1 SITE LIGHTING	500	20/1	1	*	2	20/1	1500	GATE CONTROLS	6
1 LIGHTING	500	20/1	3	*	4	20/1	500	GFCI RECEPT AT WATER VAULTS	2
5 AUTO DOOR OPENER	1500	20/1	5	*	6	20/1	1500	MONUMENT SIGN LIGHTING	1
5 FIRE VAULT TAMP SWITCH	500	20/1	7	*	8	20/1	500	GFCI RECEPT AT WATER VAULTS	2
5 HEAT TRACE (BRIDGE)	1500	20/1	9	*	10	20/1	500	GFCI RECEPT AT WATER VAULTS	2
5 HEAT TRACE (BRIDGE)	1500	20/1	11	*	12	20/1		SPARE	
BLANK			13	*	14			BLANK	
BLANK			15	*	16			BLANK	
BLANK			17	*	18			BLANK	
BLANK			19	*	20			BLANK	
BLANK			21	*	22			BLANK	
BLANK			23	*	24			BLANK	
BLANK			25	*	26			BLANK	
BLANK			27	*	28			BLANK	
BLANK			29	*	30			BLANK	
Phase A	3000	VA				line-line voltage			208
Phase B	3000	VA				largest motor (va)			0
Phase C	4500	VA				calculated load (va)			0
Total Connected	10500	VA							
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)			
1. LIGHTS=	500	500	1500	VA	2500	1.25	3125		
2. RECEPT.=	500	1000	0	VA	1500	1 + 0.5	1500		
3. HEATING=	0	0	0	VA	0	1.00	0		
4. KITCHEN=	0	0	0	VA	0	1.00	0		
5. EQUIP.=	500	1500	3000	VA	5000	1.00	5000		
6. MOTORS=	1500	0	0	VA	1500	*	1500		
7. MISC=	0	0	0	VA	0	1.00	0		
(* 125% of the largest motor + 100% of the balance) TOTAL = 11125									

MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	11.7W	120	1		1/2"	#12	#12	REFER TO UNIT PLANS
EF-2	EXHAUST FAN NO.2	130W	120	1		1/2"	#12	#12	HP-29
EF-3	EXHAUST FAN NO.3	54W	120	1		1/2"	#12	#12	CP-37
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	REFER TO UNIT PLANS
IHP-1a	SPLIT SYST NO.1 (CLUBHOUSE)		120	1		1/2"	#12	#12	INTERCONNECT W/OHP-1
IHP-1b	SPLIT SYST NO.1 (CLUBHOUSE)		120	1		1/2"	#12	#12	INTERCONNECT W/OHP-1
OHP-1	SPLIT SYST NO.1 (CLUBHOUSE)		120	1	13.3 MCA	1/2"	#12	#12	CP-19,21
IHP-2a	SPLIT SYST NO.2 (CLUBHOUSE)		120	1		1/2"	#12	#12	INTERCONNECT W/OHP-2
IHP-2b	SPLIT SYST NO.2 (CLUBHOUSE)		120	1		1/2"	#12	#12	INTERCONNECT W/OHP-2
OHP-2	SPLIT SYST NO.2 (CLUBHOUSE)		120	1	18.3 MCA	1/2"	#12	#12	CP-27,29
RTU-1	AIR HANDLING UNIT NO.1		208	3	70.0 MCA	1"	#4	#8	HP-24,26,28
RP-1	RECIRC. PUMP NO.1	1/6HP	120	1		1/2"	#12	#12	CP1-11
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	HP-14
WH-1	WATER HEATER NO.1		208	1		1/2"	#10	#10	SEE UNIT PLANS
WH-1	WATER HEATER NO.1 (CLUBHOUSE)	3.0KW	208	1		1/2"	#10	#10	CP-13,15
WH-2	WATER HEATER NO.2 (CLUBHOUSE)	2.0KW	208	1		1/2"	#12	#12	CP-27,29

GENERAL EQUIPMENT NOTES:

UNIT TYPE:	QTY PER FLOOR				TOTAL	AREA (SF)	LIG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)	
	LW 1	LW 2	LW 3															
Type A - 2B/1ba	2	---	---		2	670	2010	3000	1500	8500	1500	1200	3500	4500	1200	0	5750	
Type B - 1Br/1ba	2	2	2		6	544	1632	3000	1500	8500	1500	1200	3500	4500	1200	0	4500	
Type C - 2Br/1ba	2	2	---		4	778	2334	3000	1500	8500	1500	1200	3500	4500	1000	0	5750	
Type D - 1Br/1ba	2	2	---		4	552	1656	3000	1500	8500	1500	1200	3500	4500	1200	0	4500	
Type E - 1Br/1ba	2	2	---		4	575	1725	3000	1500	8500	1500	1200	3500	4500	1200	0	4500	
Type F - 2Br/1ba	---	2	---		2	790	2370	3000	1500	8500	1500	1200	3500	4500	1200	0	5750	
Type G - 3Br/2ba	---	---	2		2	1169	3507	3000	1500	8500	1500	1200	3500	4500	1200	0	8300	
Type H - 3Br/2ba	---	---	2		2	1087	3261	3000	1500	8500	1500	1200	3500	4500	1200	0	8300	
TOTALS:	10	10	6	0	0	26	18316	54948	78000	39000	221000	39000	31200	91000	117000	30400	0	142200

VOLTS: 208 3ph
TOTAL CONNECTED: 844 KVA
DEMAND FACTOR: 0.34 Based on Total Number of Residential Units = 26 to 27 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 287 KVA
CALCULATED AMPS: 796 AMPS

NOTE:

DWELLING UNIT LOAD CALCULATION	
Project:	Cartee Apartments
Unit Type:	1Bed/1Bath
Area:	653 square feet(average)
Minimum Size Feeder (NEC 220.40):	
General lighting load at 3 VA / SF	1,959 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Electric Range	8,500 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,500 VA
Electric Water Heater Load	0 VA
Disposal load	1,200 VA
Other motor loads	0 VA
Total "General Loads"	22,359 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	4,944 VA
Net "general load"	14,944 VA
Largest of:	
3,500 VA of electric space heating (less than 4) at 65%	2,275 VA
0 VA of electric space heating (4 or more) at 40%	0 VA
0 VA of air conditioning/cooling/heat pumps at 100%	0 VA
TOTAL LOAD	17,219 VA
For 120/208-volt, 4-wire, three-phase service or feeder,	
17,219 VA / 208 volts =	83 Amps
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.	

DWELLING UNIT LOAD CALCULATION	
Project:	Baseline Apartments
Unit Type:	2Bed/1Bath
Area:	700 square feet(average)
Minimum Size Feeder (NEC 220.40):	
General lighting load at 3 VA / SF	2,100 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Electric Range	8,500 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,500 VA
Electric Water Heater Load	4,500 VA
Disposal load	900 VA
Other motor loads	0 VA
Total "General Loads"	58,200 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	19,280 VA
Net "general load"	29,280 VA
Largest of:	
5,000 VA of electric space heating (less than 4) at 65%	3,250 VA
0 VA of electric space heating (4 or more) at 40%	0 VA
0 VA of air conditioning/cooling/heat pumps at 100%	0 VA
TOTAL LOAD	32,530 VA
For 120/208-volt, 4-wire, three-phase service or feeder,	
32,530 VA / 208 volts =	90 Amps
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.	

DWELLING UNIT LOAD CALCULATION	
Project:	Baseline Apartments
Unit Type:	3Bed/2Bath
Area:	1,133 square feet(average)
Minimum Size Feeder (NEC 220.40):	
General lighting load at 3 VA / SF	3,399 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Electric Range	8,500 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,000 VA
Electric Water Heater Load	4,500 VA
Disposal load	1,200 VA
Other motor loads	0 VA
Total "General Loads"	27,799 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	7,120 VA
Net "general load"	17,120 VA
Largest of:	
0 VA of electric space heating (less than 4) at 65%	0 VA
8,300 VA of electric space heating (4 or more) at 40%	3,320 VA
0 VA of air conditioning/cooling/heat pumps at 100%	0 VA
TOTAL LOAD	20,440 VA
For 120/240-volt, 3-wire, single-phase service or feeder,	
20,440 VA / 240 volts =	85 Amps
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.	

MFA CIRCUIT DIRECTORY		26-Apr-18	
Loadcenter Name	mounting	location	
LC-1BR/1BA (TYPICAL)	RECESSED		
voltage	phase	100A MLO	bus & main
208/120	1	L1	L2
service	a/p	no.	(SCCR: 10K)
LIGHTS-KITCHEN/LIVING	20/1(A)	1	* 2 20/1(A) APPLIANCE CIRCUIT
LTS - BATH	20/1	3	* 4 20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	* 6 20/1 REFRIGERATOR
RECEPT - BATH	20/1	7	* 8 20/1 MICRO/HOOD
RECEPT - LIVING	20/1(A)	9	* 10 50/2 RANGE
RECEPT - LIVING	20/1(A)	11	* 12 * *
RECEPT - BEDROOM	20/1(A)	13	* 14 20/1 DISHWASHER (WHERE USED)
SPARE	20/1	15	* 16 20/1 DISPOSAL
WASHER	20/1(G)	17	* 18 20/1 HEAT
DRYER	40/2	19	* 20 20/1 HEAT
*	21	22	* 20/1 HEAT
WATER HEATER	30/2	23	* 24 20/1 SPARE
*	25	26	* 20/1 SPARE
BLANK	27	28	BLANK
BLANK	29	30	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.

MFA CIRCUIT DIRECTORY		28-May-20	
Loadcenter Name	mounting	location	
LC-2BR/1BA (TYPICAL)	RECESSED		
voltage	phase	100A MLO	bus & main
208/120	1	L1	L2
service	a/p	no.	(SCCR: 10K)
LIGHTS-KITCHEN/LIVING	20/1(A)	1	* 2 20/1(A) APPLIANCE CIRCUIT
LTS - BATH	20/1	3	* 4 20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	* 6 20/1 REFRIGERATOR
RECEPT - BATH	20/1	7	* 8 20/1 MICRO/HOOD
RECEPT - LIVING	20/1(A)	9	* 10 50/2 RANGE
RECEPT - LIVING	20/1(A)	11	* 12 * *
RECEPT - BEDROOM	20/1(A)	13	* 14 20/1 DISHWASHER
RECEPT - BEDROOM	20/1(A)	15	* 16 20/1 DISPOSAL
WASHER	20/1(G)	17	* 18 20/1 HEAT
DRYER	40/2	19	* 20 20/1 HEAT
*	21	22	* 20/1 HEAT
WATER HEATER	30/2	23	* 24 20/1 HEAT
*	25	26	* 20/1 SPARE
BLANK	27	28	BLANK
BLANK	29	30	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.

MFA CIRCUIT DIRECTORY		28-May-20	
Loadcenter Name	mounting	location	
LC-3BR/2BA (TYPICAL)	RECESSED		
voltage	phase	100A MLO	bus & main
208/120	1	L1	L2
service	a/p	no.	(SCCR: 10K)
LIGHTS-KITCHEN/LIVING	20/1(A)	1	* 2 20/1(A) APPLIANCE CIRCUIT
LTS - BATH	20/1	3	* 4 20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	* 6 20/1 REFRIGERATOR
RECEPT - BATH	20/1	7	* 8 20/1 MICRO/HOOD
RECEPT - LIVING	20/1(A)	9	* 10 50/2 RANGE
RECEPT - LIVING	20/1(A)	11	* 12 * *
RECEPT - BEDROOM	20/1(A)	13	* 14 20/1 DISHWASHER
RECEPT - BEDROOM	20/1(A)	15	* 16 20/1 DISPOSAL
WASHER	20/1(G)	17	* 18 20/1 HEAT
WASHER	20/1(G)	19	* 20 20/1 HEAT
DRYER	40/2	21	* 22 20/1 HEAT
*	23	24	* 20/1 HEAT
WATER HEATER	30/2	25	* 26 20/1 SPARE
*	27	28	* 20/1 SPARE
BLANK	29	30	BLANK
BLANK	31	32	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.

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REGISTERED PROFESSIONAL ENGINEER
16,597
OREGON
JULY 20, 1991
ROBERT L. CONNELL
EXPIRES 12-31-2021

No.	Date
1	04.27.2020 REVS
2	06.29.2020 REVS
3	07.06.2020 REVS
4	07.16.2020 REVS
5	07.16.2020 REVS
6	08.28.2020 REVS
7	09.28.2020 REVS
8	10.16.2020 REVS
9	11.03.2020 REVS
10	11.06.2020 REVS
11	11.19.2020 REVS

BASELINE APARTMENTS
20711 SE STARK ST
GRESHAM OR 97030

ADW #
16010.00

DESIGN CONSULT

ELECTRICAL PANEL SCHEDULES

E1.13

As indicated

Date 2017.12.12
Drawn DMT
Checked RLC

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LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
B1E	LED 3000LM 3000K	LITHONIA (OR APPROVED EQUAL)	WL4 SERIES	TYPE :4' WRAPAROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR FOR 50% LIGHT REDUCTION DURING PERIODS OF UNDETECTED OCCUPANCY. EMERG. BATTERY BACKUP STAIRWELLS
B2E	LED 3000LM 3000K	LITHONIA (OR APPROVED EQUAL)	FEM48 SERIES	TYPE :4' ENCLOSED STRIP MOUNTING :SURFACE HOUSING :FIBERGLASS LENS/REFL:POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE W/ EMERGENCY BATTERY PACK ELEVATOR PIT
C1	LED 1185LM 3000K	WAC LIGHTING (OR APPROVED EQUAL)	HR3LEDH17A HOUSING R3ARDT TRIM	TYPE :3.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL:POWDER COATED ALUMINUM VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	PROVIDE W/ IC RATED HOUSING FINISH PER ARCHITECT CORRIDORS, LOBBY
C2	LED 600LM 3000K	HALO LIGHTING (OR APPROVED EQUAL)	SMD6R SERIES	TYPE :6" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :POLYCARBONATE LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT COMMUNITY SPACES, REST RMS
C3	LED 1530LM 3000K	SUNPARK LIGHTING (OR APPROVED EQUAL)	FL02390-VT SERIES	TYPE :34" VANITY BAR MOUNTING :SURFACE (+6" ABOVE MIRROR) HOUSING :ALUMINUM LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT REST ROOMS
C4	LED 3000LM 3000K	LITHONIA (OR APPROVED EQUAL)	WL4 SERIES	TYPE :4' WRAPAROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PACKAGE ROOM
C5	LED 200LM 3000K	KICHLER (OR APPROVED EQUAL)	6HS30K12AL SERIES	TYPE :12" UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL:ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER	MOUNT FIXTURE CLOSE TO FRONT EDGE OF CABINET UNDERSIDE. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALLATION. COMMUNITY ROOM
E1	(2) 35W MR16	PHILIPS CHLORIDE (OR APPROVED EQUAL)	CM-25650 SERIES	TYPE :EMERGENCY LIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL:POLYCARBONATE VOLTAGE :MVOLT BALLAST :LEAD CALCIUM BATTERY	RECESS MOUNT IN WALL AT +8"-0" AFF. INTERIOR EGRESS PATH
E2	LED 516LM	PHILIPS CHLORIDE (OR APPROVED EQUAL)	TPUNLM7 SERIES	TYPE :EMERGENCY LIGHT MOUNTING :SURFACE (=8"-0" AFF) HOUSING :STEEL LENS/REFL:POLYCARBONATE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION EXTERIOR EGRESS PATH
L1	LED 1060LM 3000K	SECTO DESIGN (OR APPROVED EQUAL)	OCTO 4240 SERIES	TYPE :DECORATIVE PENDANT MOUNTING :SUSPENDED HOUSING : LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FIXTURE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR. VERIFY MOUNTING HEIGHT. PROVIDE CEILING BLOCKING AS NECESSARY TO SUPPORT WEIGHT. CLUB HOUSE
S2	LED 1200LM 4000K	KUZCO (OR APPROVED EQUAL)	EW4405 SERIES	TYPE :EXTERIOR WALL SCONCE MOUNTING :SURFACE (+8"-0" AFF) HOUSING :ALUMINUM LENS/REFL:NA VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S3	LED 815LM 3000K	HALO LIGHTING (OR APPROVED EQUAL)	SMD6S SERIES	TYPE :6" SQUARE DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :POLYCARBONATE LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S5	LED 2000LM	LITHONIA LIGHTING (OR APPROVED EQUAL)	WSQ SERIES	TYPE :WALL PACK MOUNTING :SURFACE (+9"-0" AFF)	UL LISTED WET LOCATION BUILDING TERRACE
X	LED (RED)	SURE-LITES (OR APPROVED EQUAL)	TPX SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :ALUMINUM LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
X2	LED (RED)	SURE-LITES (OR APPROVED EQUAL)	LPXW7 SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :POLYCARBONATE LENS/REFL:POLYCARBONATE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION

LIGHTING FIXTURE LIST - TYPICAL LIVING UNITS					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'U1'	LED 650 LUMEN 3000K (10W)	LIGHTOLIER (OR APPROVED EQUAL)	SSR830K7 SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL:MOLDED POLYMER VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT KITCHEN, HALL, CLOSET
'U2'	LED 1000 LUMEN 3000K (14W)	LIGHTOLIER (OR APPROVED EQUAL)	S7R830K10 SERIES	TYPE :7" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL:MOLDED POLYMER VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. UL LISTED DAMP LOCATION UNIT BATHROOM
'U3'	LED 148 LUMEN 3000K (16W)	LITHONIA (OR APPROVED EQUAL)	AUTRY SERIES	TYPE :11" CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:FABRIC/ACRYLIC DRUM VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT HALL, BEDROOM, LIVING AREA
'U4'	LED 3000K (5-18W)	GLOBALUX (OR APPROVED EQUAL)	UCL SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. LENGTH VARIES - SEE UNIT PLANS AND PROVIDE THE APPROPRIATE SIZE FOR EACH LOCATION. UNIT KITCHEN
'U5'	G10 LED LAMP 400 LUMEN 3000K (6W)	OXYGEN LIGHTING (OR APPROVED EQUAL)	3-8110-14 SERIES	TYPE :MINI PENDANT MOUNTING :SURFACE (ABOVE SINK) HOUSING :ALUMINUM LENS/REFL:OPAL GLASS VOLTAGE :MVOLT BALLAST :INTEGRAL LED DRIVER (DIMMING)	FINISH PER ARCHITECT. CONSULT ARCHITECT FOR EXACT MOUNTING HEIGHT AND LOCATION. UNIT KITCHEN
'U6'	LED 1922 LUMEN 3000K (26W)	LITHONIA (OR APPROVED EQUAL)	FMVSL SERIES	TYPE :36" VANITY LIGHT MOUNTING :SURFACE (+6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT BATHROOM

SITE LIGHTING SCHEDULE

TAG	MANUFACTURER	MODEL	LAMP	DESCRIPTION
LP1	COOPER	GLEON-AF-03-LED-E1-T4W-DB-600-MA	96W LED TYPE IV	SINGLE HEAD AREA LIGHT MOUNTED ON 25' POLE
LP2	COOPER	GLEON-AF-03-LED-E1-5WQ-DB-600-MA	96W LED TYPE V	SINGLE HEAD AREA LIGHT MOUNTED ON 25' POLE
LP3	COOPER	GLEON-AF-03-LED-E1-SL3-DB-600-MA-HSS	96W LED TYPE SL3	SINGLE HEAD AREA LIGHT MOUNTED ON 25' POLE
LP4	COOPER	GLEON-AF-03-LED-E1-RW-DB-600-MA	(2) 96W LED TYPE V	TWIN HEAD AREA LIGHT MOUNTED ON 25' POLE
LP5	COOPER	GLEON-AF-02-LED-E1-RW-DB-600-MA	66W LED TYPE RW	SINGLE HEAD AREA LIGHT MOUNTED ON 25' POLE
LP6	COOPER	GLEON-AF-02-LED-E1-RW-DB-600-MA	66W LED TYPE RW	SINGLE HEAD AREA LIGHT MOUNTED ON 15' POLE
LP7	COOPER	GLEON-AF-02-LED-E1-SL2-DB-600-MA-HSS	66W LED TYPE SLW	SINGLE HEAD AREA LIGHT MOUNTED ON 25' POLE

GENERAL LIGHTING NOTES:

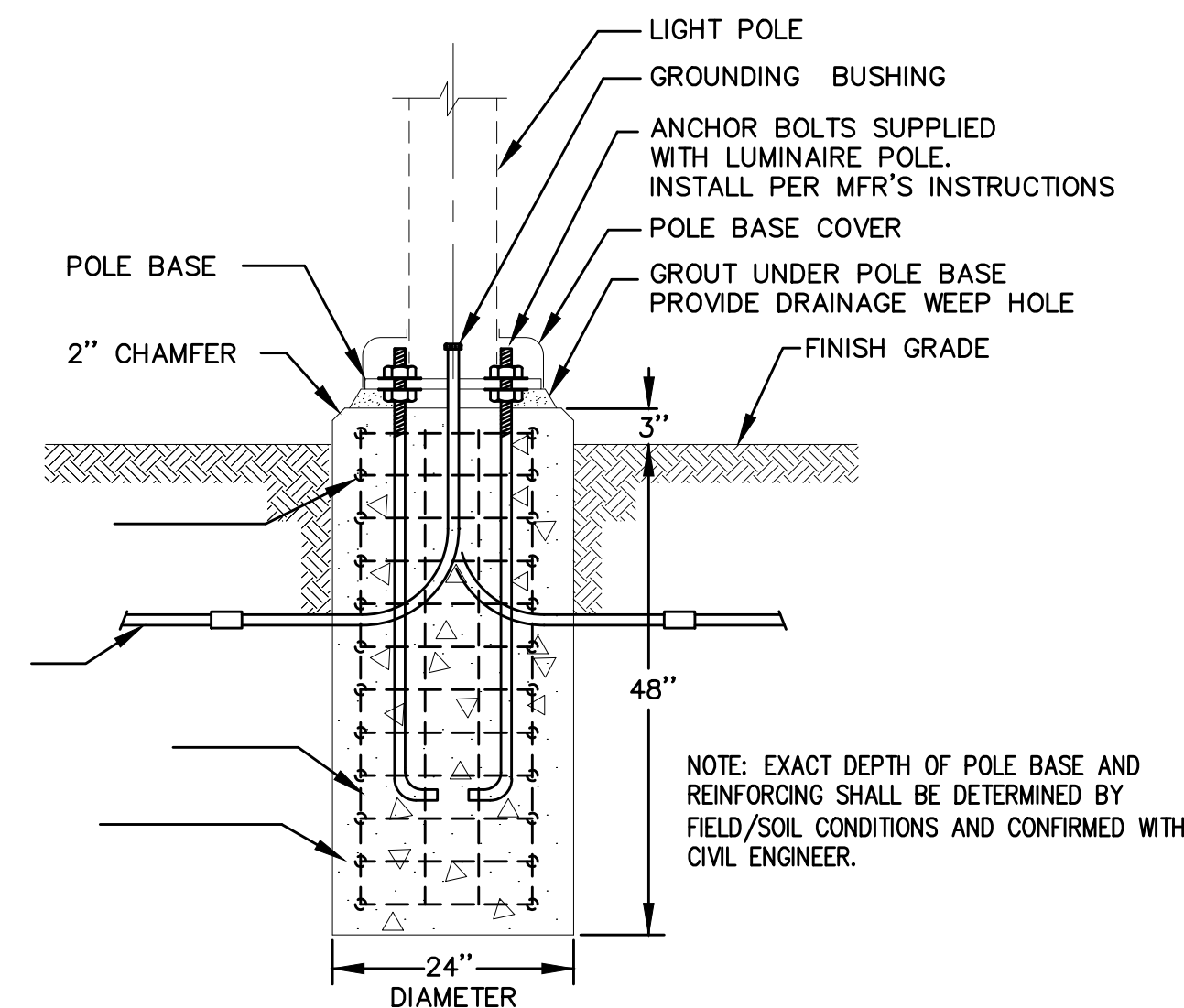
- ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.
- LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.
- VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED. THE EXCEPTION TO THIS WILL BE THE LIGHT FIXTURES IN THE APARTMENT UNITS, FIXTURES IN MAINTENANCE AREAS AND TEMPORARY LIGHTING.
- ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- EGRESS LIGHTING SHALL BE ROUTED VIA POWER INVERTER FOR BACK UP POWER. INVERTER SHALL BE CAPABLE OF SUPPORTING A MINIMUM OF 1500VA AND HAVE AT LEAST (6) BATTERIES (ONE PER LIGHTING CIRCUIT). EQUIPMENT SHALL BE MYERS POWER PRODUCTS OR APPROVED EQUAL.
- EGRESS LIGHTING IN CORRIDORS, STAIRWELLS AND OTHER COMMON AREAS SHALL BE PROVIDED TO MEET MINIMUM LIGHT LEVELS OF 1.0FC AVERAGE, AS DESCRIBED PER OREGON STRUCTURAL SPECIALTY CODE 1006.3. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A LIGHTING REPORT DEMONSTRATING THE MINIMUM LIGHT LEVEL, SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.
- LIGHTING IN CORRIDORS, STAIRWELLS AND OTHER COMMON AREAS SHALL BE PROVIDED WITH OCCUPANCY SENSORS (EITHER INTEGRAL OR REMOTE) TO PROVIDE 50% LIGHT REDUCTION DURING PERIODS OF UNDETECTED ACTIVITY. LIGHTS SHALL RETURN TO 100% OUTPUT UPON ACTIVITY DETECTION AND REMAIN AT 100% FOR NO LESS THAN 20 MINUTES ONCE THE SPACE BECOMES UNOCCUPIED.

APARTMENT UNIT LIGHTING NOTES:

- CONSULT ARCHITECT FOR FINISH PREFERENCES.
- CONSULT ARCHITECT FOR MOUNTING HEIGHTS AND EXACT LOCATION OF ALL FIXTURES TO BE INSTALLED WITHIN THE APARTMENT UNITS.

KEYED LIGHTING NOTES:

- CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
- CIRCUIT VIA ROOF MOUNTED PHOTOCELL FOR DUSK-TILL-DAWN OPERATION.
- PROVIDE WITH REMOTE BATTERY BACKUP FOR FIXTURES DESIGNATED FOR EGRESS. SEE SHEET E2.01 FOR MORE INFORMATION.



1 POLE BASE MOUNTING DETAIL
E1.22 NO SCALE

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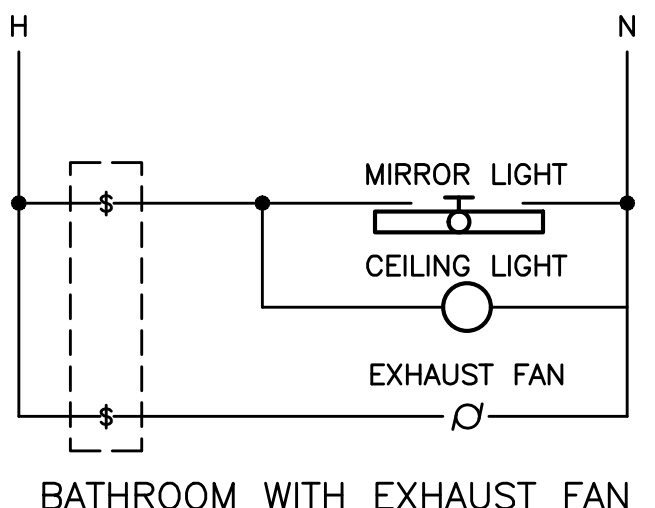
LUMINAIRE SCHEDULE

Date 2017.12.12
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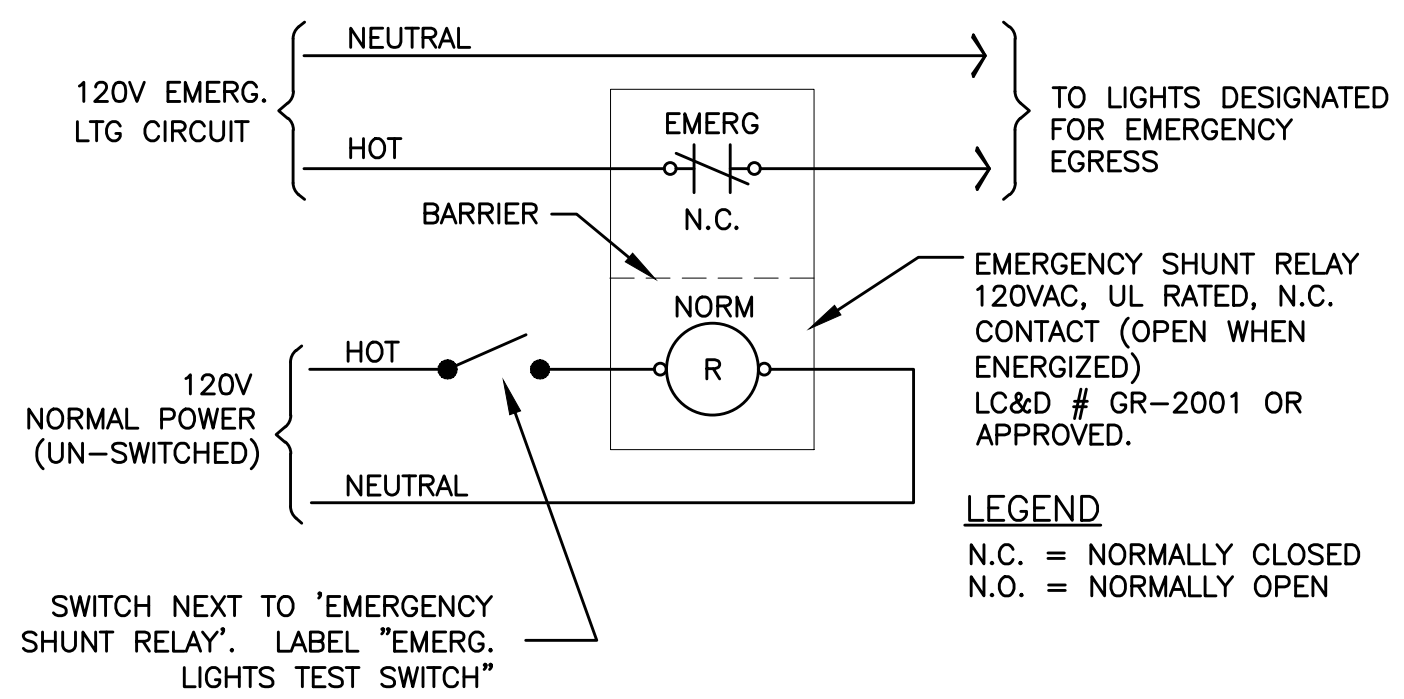
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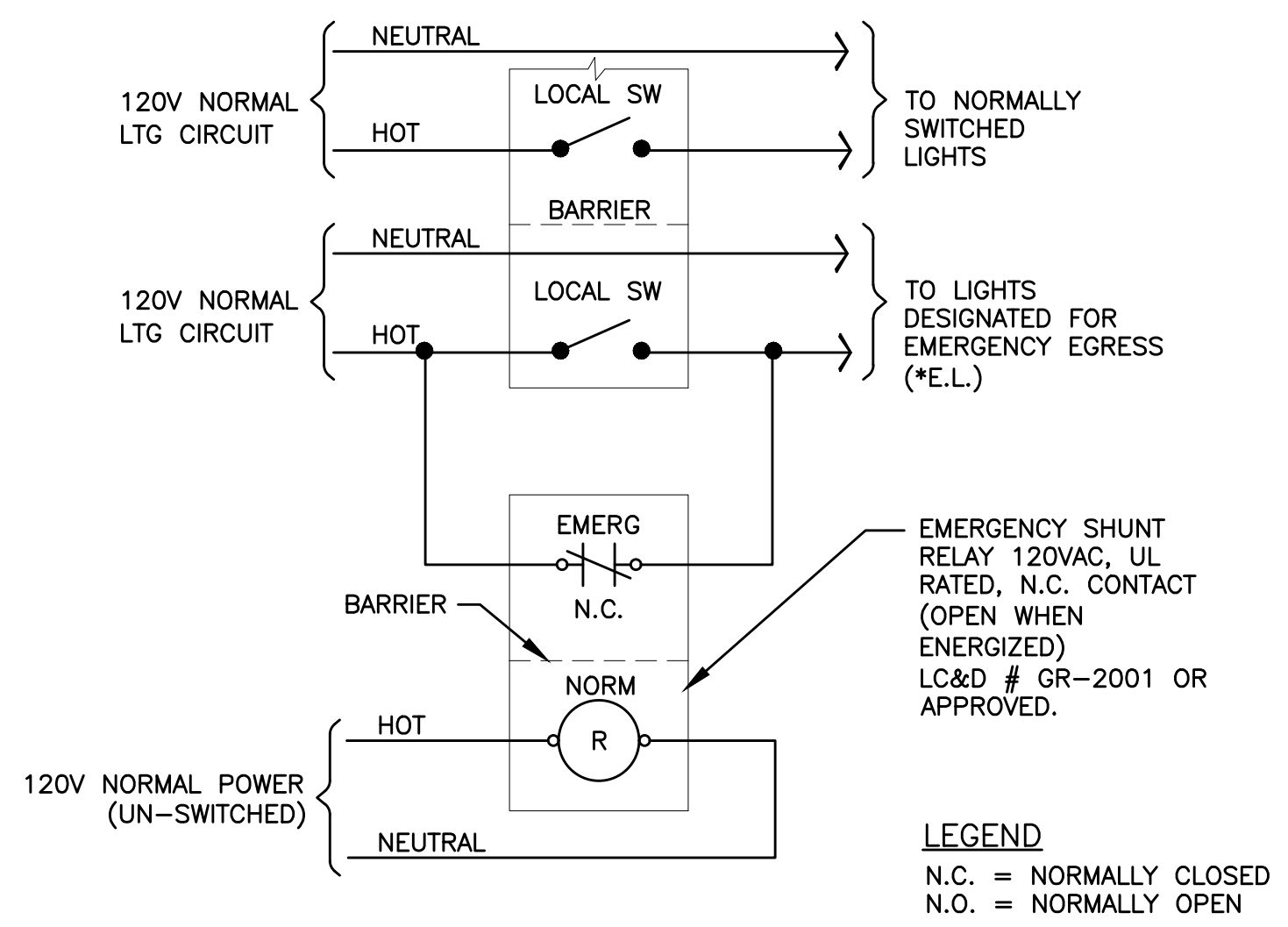


BATHROOM WITH EXHAUST FAN

1 BATHROOM SWITCHING DIAGRAM - TYPICAL
E1.23 NO SCALE



2 EMERGENCY EGRESS LIGHTING - UNSWITCHED
E1.23 NO SCALE



3 EMERGENCY EGRESS LIGHTING - SWITCHED
E1.23 NO SCALE

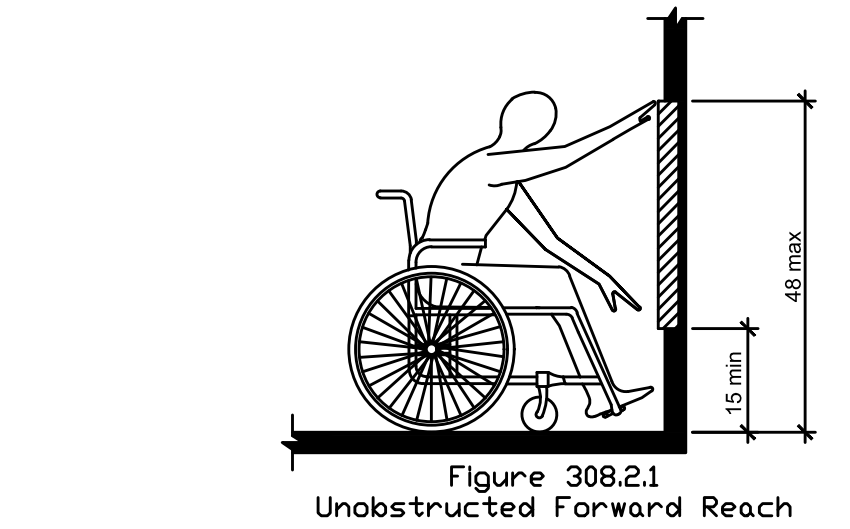


Figure 308.2.1
Unobstructed Forward Reach

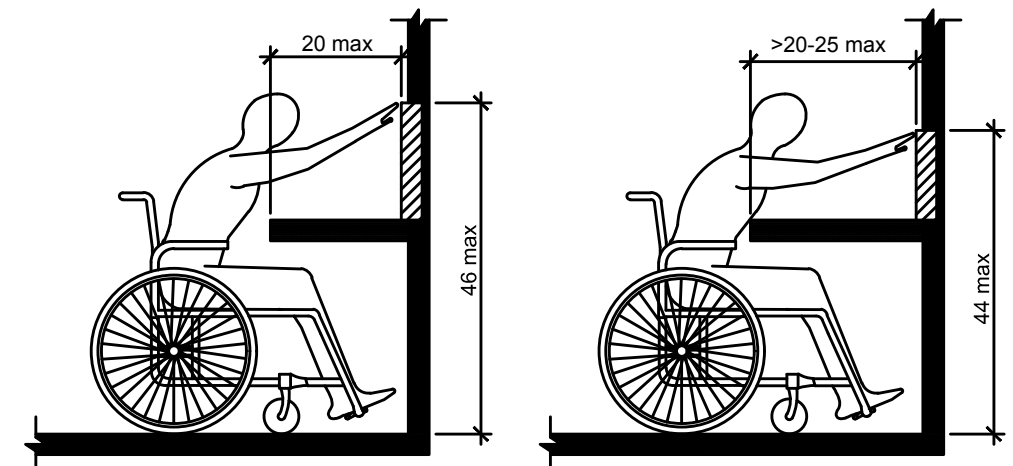


Figure 308.2.2
Obstructed High Forward Reach

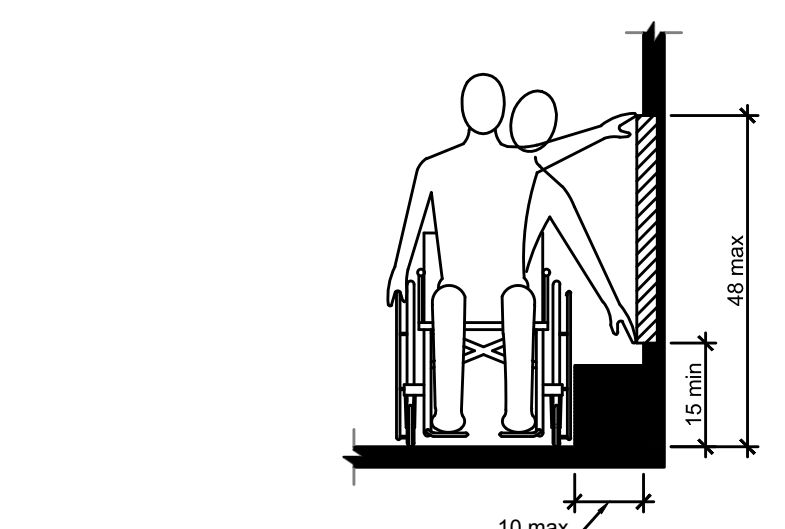


Figure 308.3.1
Unobstructed Side Reach

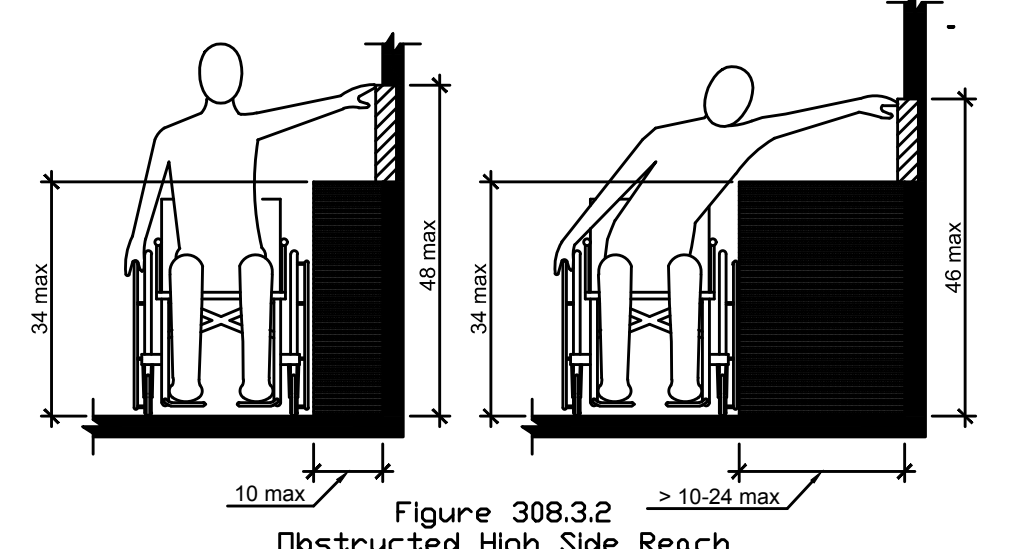


Figure 308.3.2
Obstructed High Side Reach

4 ADA REACH REQUIREMENTS
N.T.S.

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

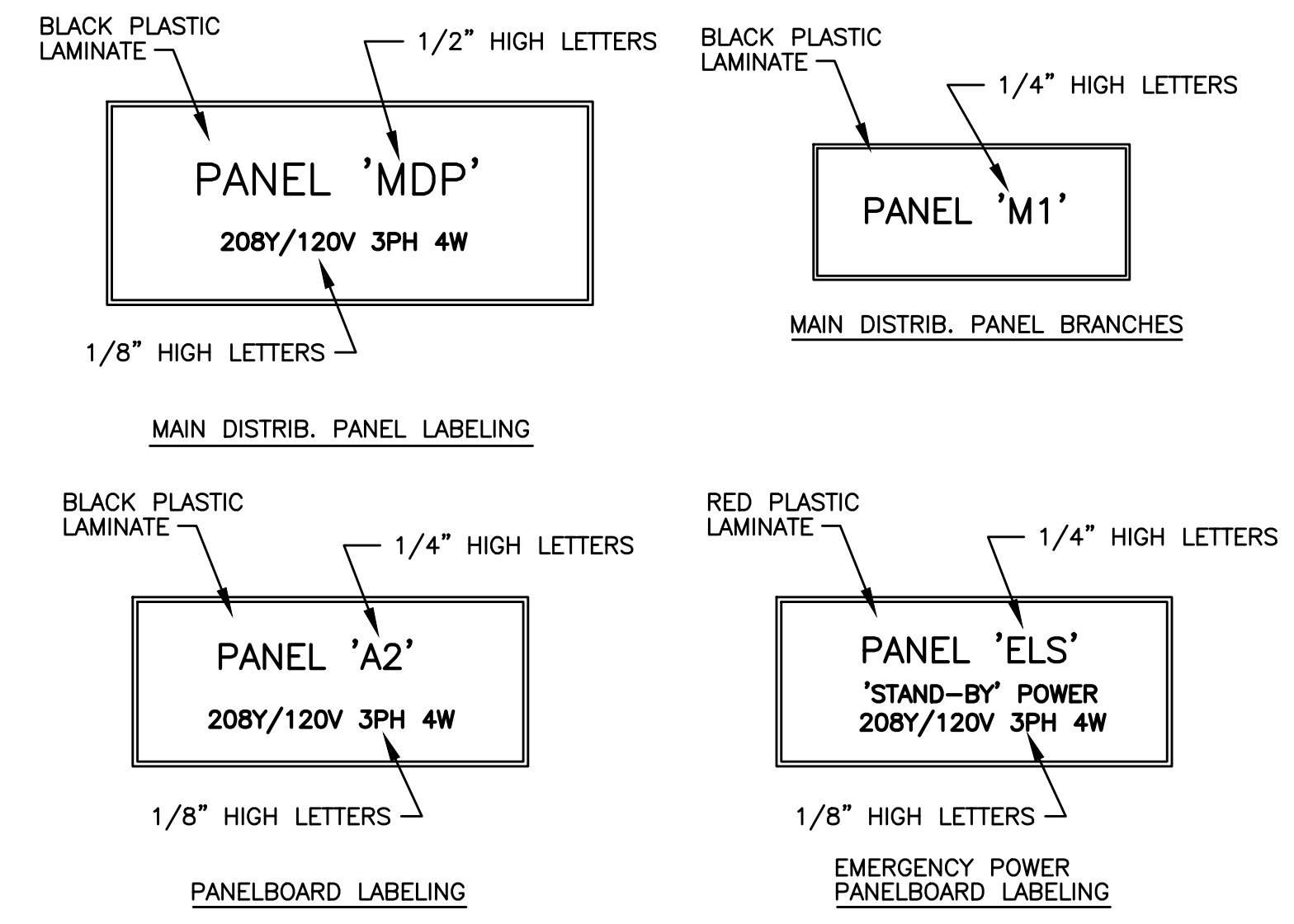
308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

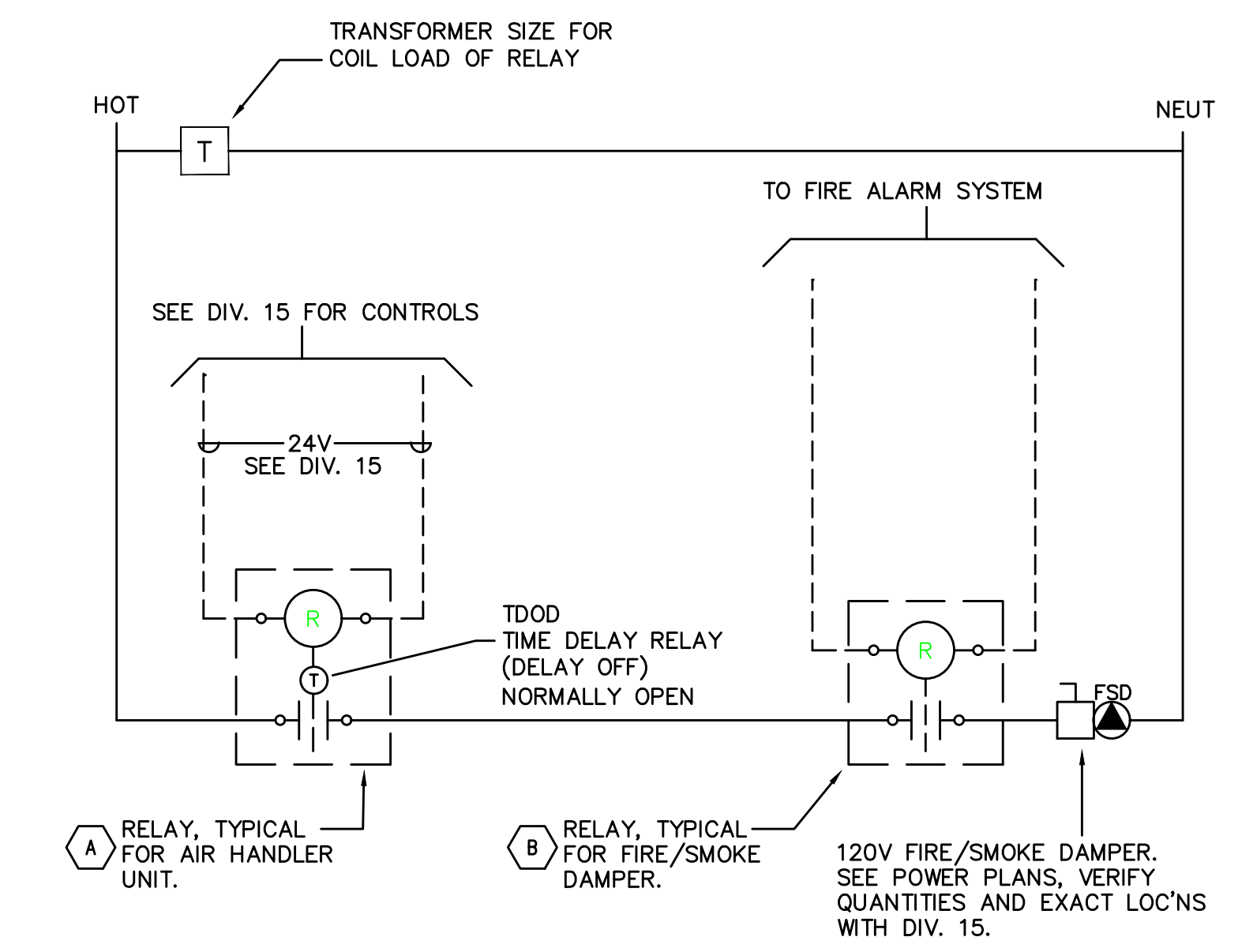
308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.



5 SWITCHBOARD/PANEL LABELING DETAIL
E1.23 NO SCALE



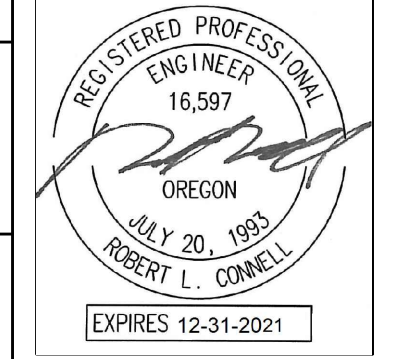
6 SMOKE/FIRE DAMPER CONTROL DIAGRAM
E1.23 NO SCALE

ADDRESSABLE DETECTOR CONTROL

A RELAY TO BE "NORMALLY OPEN". TDOD (TIME DELAY ON DE-ENERGIZE) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY HVAC CONTROL SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.

B RELAY TO BE "NORMALLY ENERGIZED". RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM FIRE ALARM SYSTEM (ALLOWS DAMPERS TO CLOSE). PROGRAM FIRE ALARM SYSTEM FOR 15 SECOND DELAY BETWEEN SMOKE DETECTOR ACTIVATION AND FIRE/SMOKE DAMPER SHUTDOWN. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO FIRE/SMOKE DAMPER.

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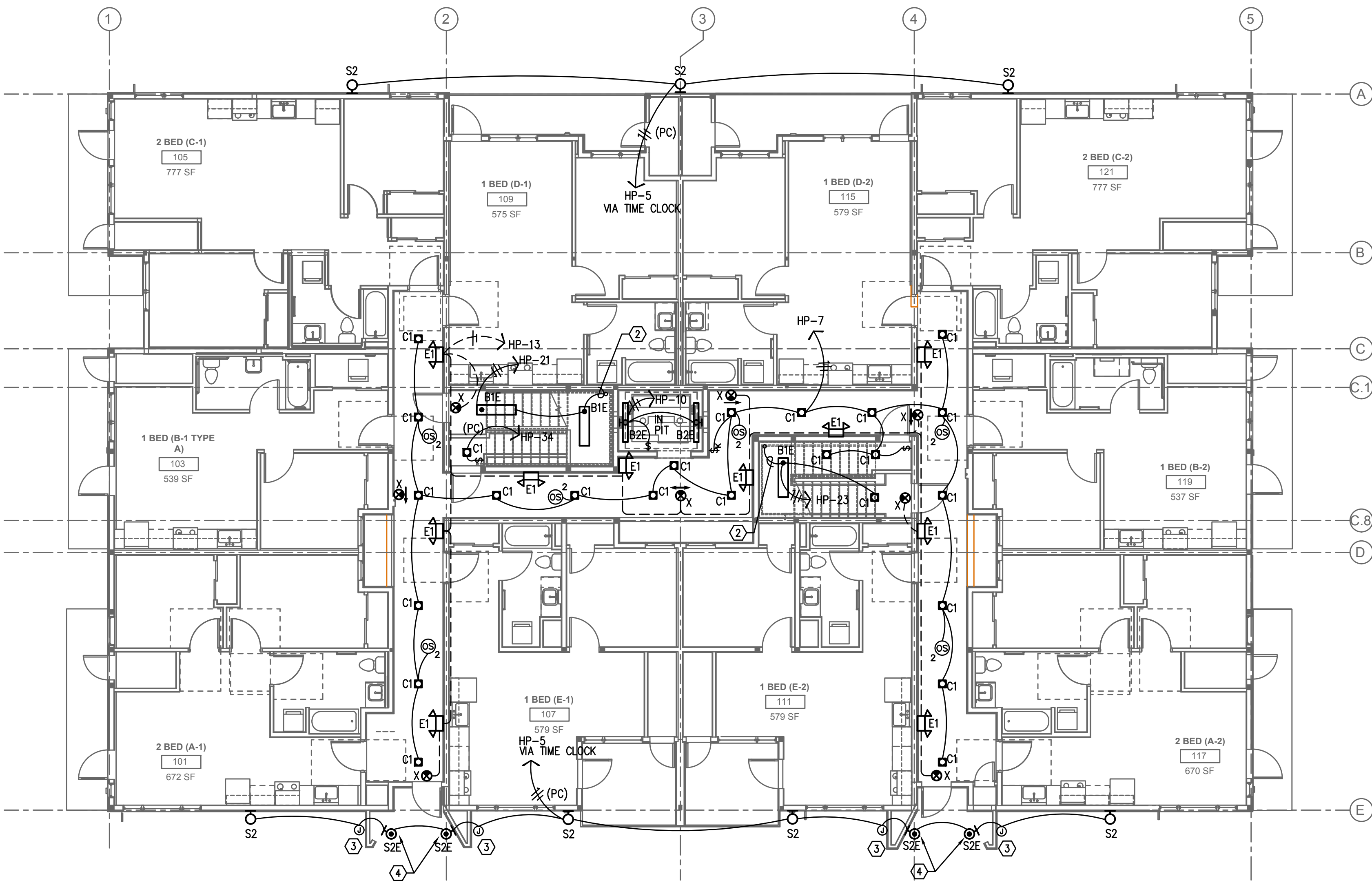
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ELECTRICAL DETAILS
E1.23

Date	2017.12.12
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1 FIRST FLOOR LIGHTING PLAN
E2.01 SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E1.22 FOR LUMINAIRE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA TIME CLOCK. CONSULT OWNER FOR CLOCK LOCATION AND SETTINGS.
- G. CORRIDOR LIGHTING SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH KEYED SWITCH FOR MANUAL OVERRIDE. CORRIDOR LIGHTING SHALL BE ON 24/7, WITH THE SENSORS DIMMING THE LIGHTS BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- H. STAIRWELL LIGHTING SHALL BE CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR. STAIRWELL LIGHTING SHALL BE ON 24/7, WITH THE FIXTURES DIMMING BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- I. PROVIDE ONE DEDICATED 20A,120V CIRCUIT FOR ELEVATOR CAB LIGHTS & FAN FROM PANEL HP, CKT

KEYED NOTES:

- 1. NOT USED.
- 2. EACH STAIRWELL CIRCUIT SHALL SERVE LIGHT FIXTURES AT EACH LEVEL.
- 3. POWER CONNECTION FOR BACK-LIT BUILDING IDENTIFICATION SIGNAGE. CONSULT ARCHITECTURAL PLANS FOR EXACT POWER REQUIREMENTS AND MOUNTING HEIGHTS PRIOR TO ROUGH IN AND COORDINATE INSTALLATION WITH SIGN PROVIDER. BUILDING SIGNS SHALL BE TIED INTO THE EXTERIOR LIGHTING CIRCUIT AT EACH BUILDING AND CONTROLLED VIA ROOF MOUNTED PHOTOCELL.
- 4. PROVIDE REMOTE BATTERY BACKUP FOR FIXTURES IDENTIFIED AS EGRESS.

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04/30/2018

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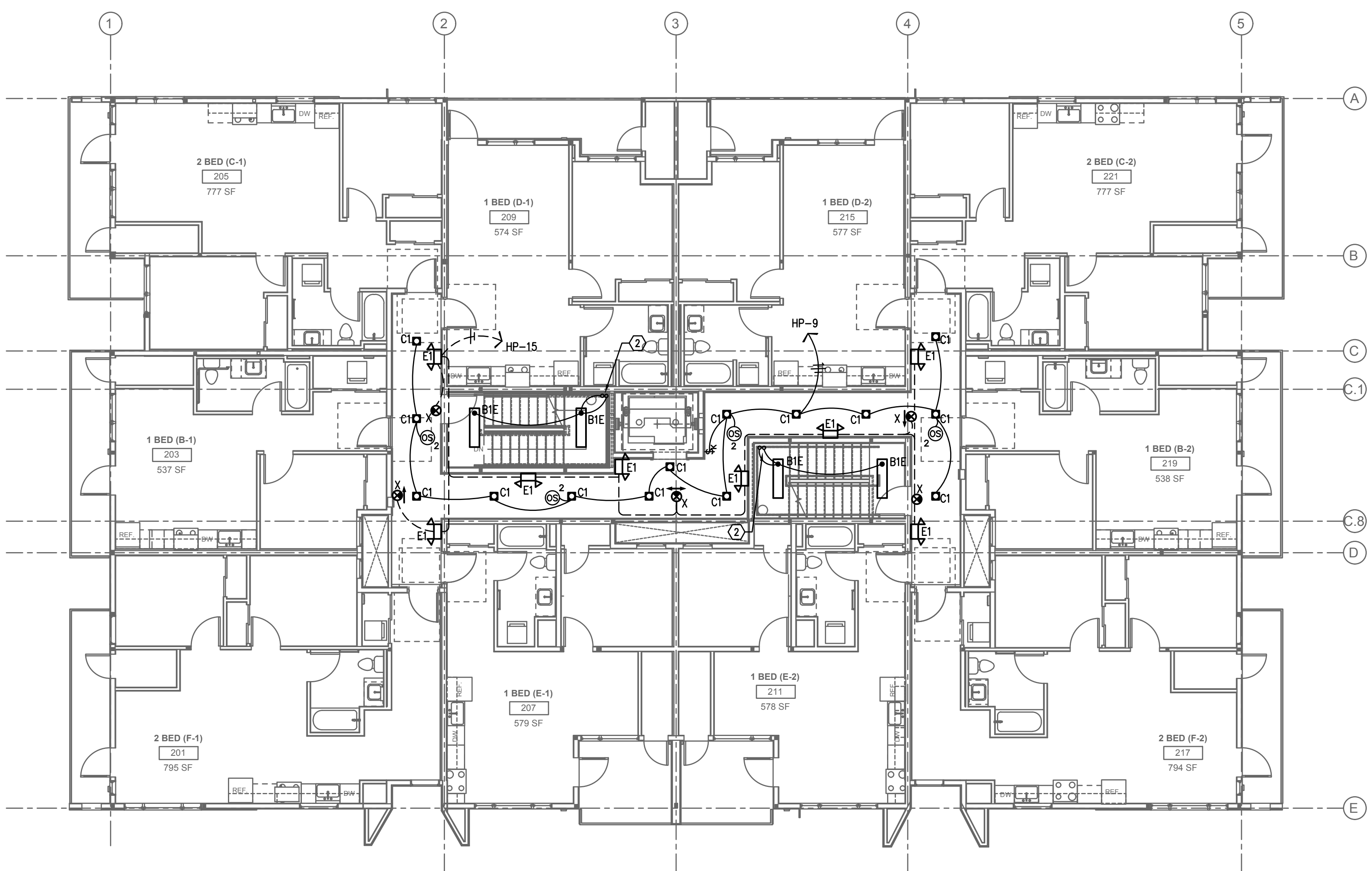
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1ST FLOOR LIGHTING PLAN-BLDG A

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1 SECOND FLOOR LIGHTING PLAN
 E2.02 SCALE: 1/8" = 1'-0"

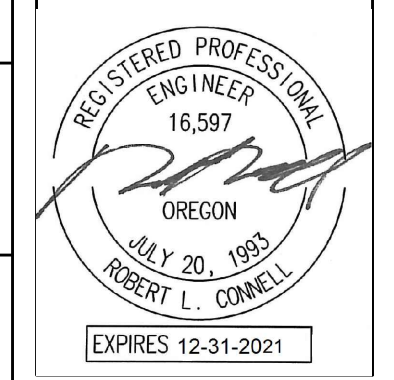
GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E1.22 FOR LUMINAIRE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA ROOF MOUNTED PHOTOCELL FOR DAYLIGHT CONTROL.
- G. CORRIDOR LIGHTING SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH KEYED SWITCH FOR MANUAL OVERRIDE. CORRIDOR LIGHTING SHALL BE ON 24/7, WITH THE SENSORS DIMMING THE LIGHTS BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- H. STAIRWELL LIGHTING SHALL BE CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR. STAIRWELL LIGHTING SHALL BE ON 24/7, WITH THE FIXTURES DIMMING BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

KEYED NOTES:

- 1. NOT USED.
- 2. REFER TO SHEET E2.01 FOR CONTINUATION OF STAIRWELL LIGHTING CIRCUIT.

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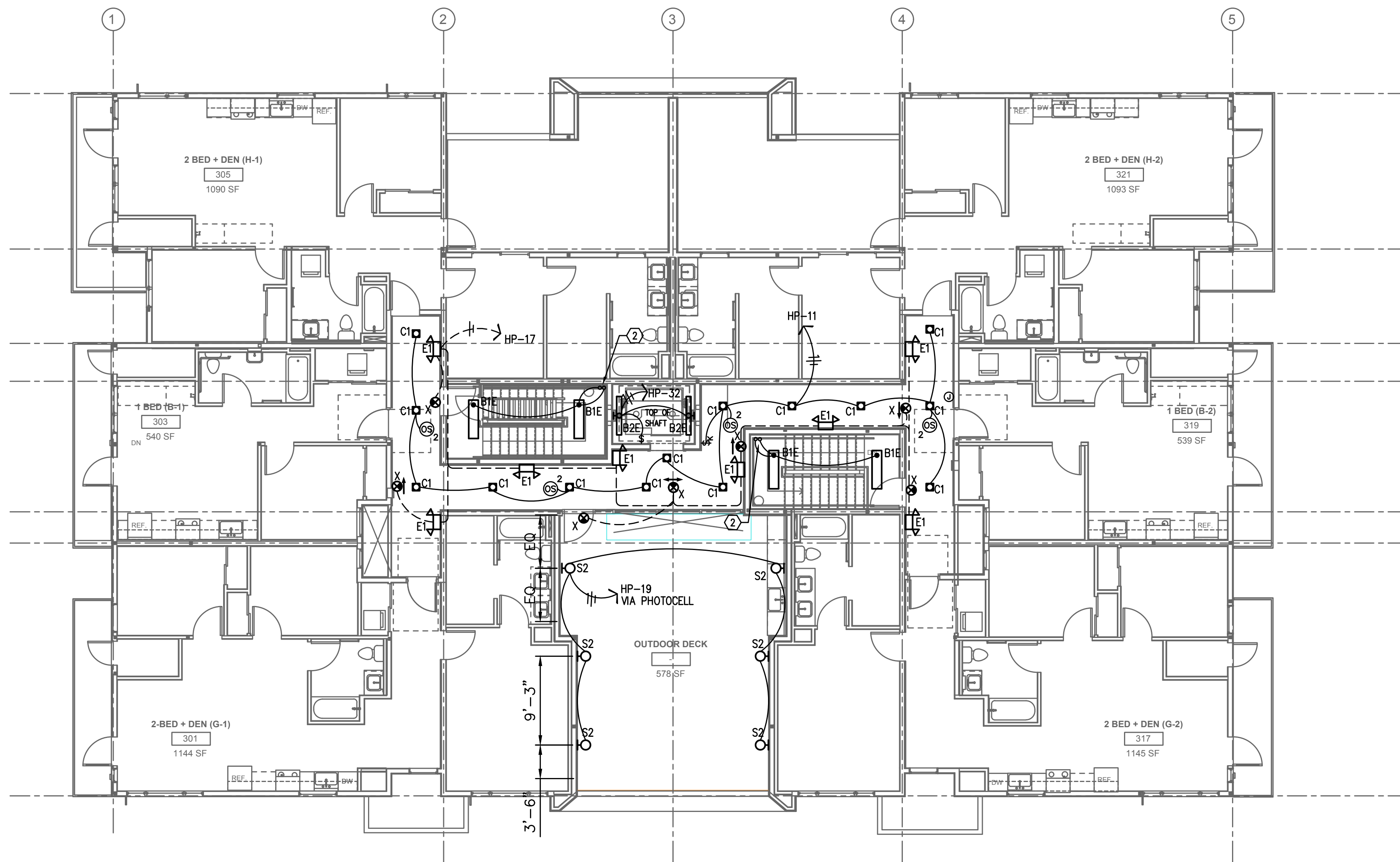
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 2ND FLOOR LIGHTING PLAN-BLDG A

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1 THIRD FLOOR LIGHTING PLAN
 E2.03 SCALE: 1/8" = 1'-0"

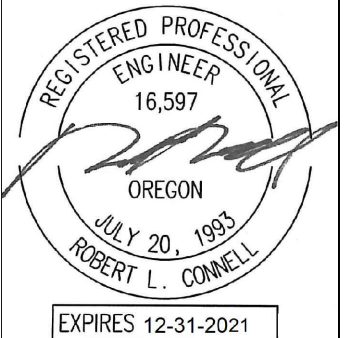
GENERAL POWER NOTES:

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- B. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E1.22 FOR LUMINAIRE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA ROOF MOUNTED PHOTOCELL FOR DAYLIGHT CONTROL.
- G. CORRIDOR LIGHTING SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH KEYED SWITCH FOR MANUAL OVERRIDE. CORRIDOR LIGHTING SHALL BE ON 24/7, WITH THE SENSORS DIMMING THE LIGHTS BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- H. STAIRWELL LIGHTING SHALL BE CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR. STAIRWELL LIGHTING SHALL BE ON 24/7, WITH THE FIXTURES DIMMING BY 50% DURING PERIODS OF LOW ACTIVITY. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- L. CONSULT WITH ELEVATOR INSTALLER AND COORDINATE ALL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, CONDUCTORS AND ANY WIRING DEVICES FOR COMPLETE INSTALL.

KEYED NOTES:

- 1. NOT USED.
- 2. REFER TO SHEET E2.01 FOR CONTINUATION OF STAIRWELL LIGHTING CIRCUIT.

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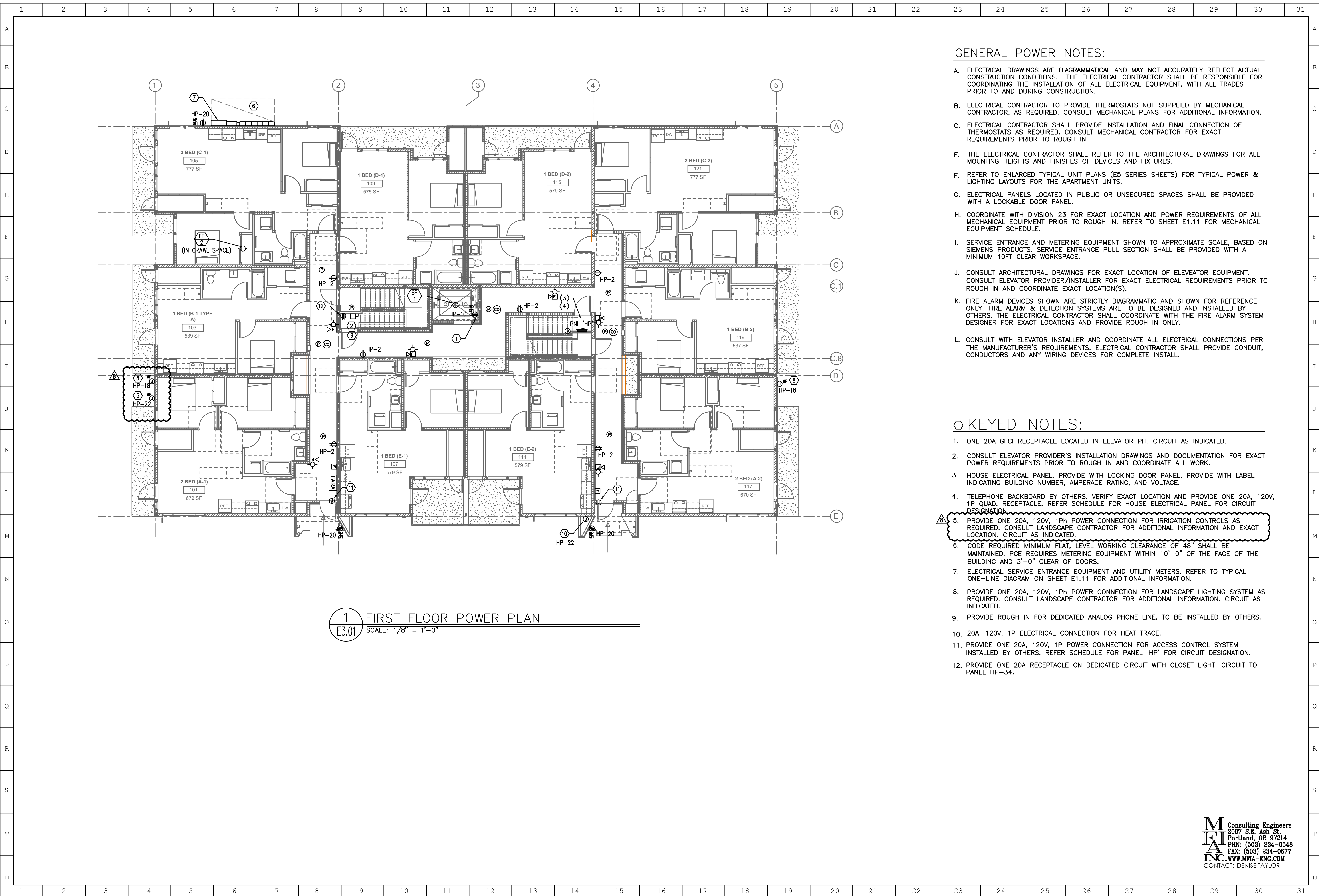
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 3RD FLOOR LIGHTING PLAN-BLDG A

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1 FIRST FLOOR POWER PLAN
 E3.01 SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- G. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.
- H. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.11 FOR MECHANICAL EQUIPMENT SCHEDULE.
- I. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. SERVICE ENTRANCE PULL SECTION SHALL BE PROVIDED WITH A MINIMUM 10FT CLEAR WORKSPACE.
- J. CONSULT ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ELEVATOR EQUIPMENT. CONSULT ELEVATOR PROVIDER/INSTALLER FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN AND COORDINATE EXACT LOCATION(S).
- K. FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATICAL AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- L. CONSULT WITH ELEVATOR INSTALLER AND COORDINATE ALL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, CONDUCTORS AND ANY WIRING DEVICES FOR COMPLETE INSTALL.

KEYED NOTES:

- 1. ONE 20A GFCI RECEPTACLE LOCATED IN ELEVATOR PIT. CIRCUIT AS INDICATED.
- 2. CONSULT ELEVATOR PROVIDER'S INSTALLATION DRAWINGS AND DOCUMENTATION FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN AND COORDINATE ALL WORK.
- 3. HOUSE ELECTRICAL PANEL. PROVIDE WITH LOCKING DOOR PANEL. PROVIDE WITH LABEL INDICATING BUILDING NUMBER, AMPERAGE RATING, AND VOLTAGE.
- 4. TELEPHONE BACKBOARD BY OTHERS. VERIFY EXACT LOCATION AND PROVIDE ONE 20A, 120V, 1P QUAD, RECEPTACLE. REFER SCHEDULE FOR HOUSE ELECTRICAL PANEL FOR CIRCUIT DESIGNATION.
- 5. PROVIDE ONE 20A, 120V, 1Ph POWER CONNECTION FOR IRRIGATION CONTROLS AS REQUIRED. CONSULT LANDSCAPE CONTRACTOR FOR ADDITIONAL INFORMATION AND EXACT LOCATION. CIRCUIT AS INDICATED.
- 6. CODE REQUIRED MINIMUM FLAT, LEVEL WORKING CLEARANCE OF 48" SHALL BE MAINTAINED. PGE REQUIRES METERING EQUIPMENT WITHIN 10'-0" OF THE FACE OF THE BUILDING AND 3'-0" CLEAR OF DOORS.
- 7. ELECTRICAL SERVICE ENTRANCE EQUIPMENT AND UTILITY METERS. REFER TO TYPICAL ONE-LINE DIAGRAM ON SHEET E1.11 FOR ADDITIONAL INFORMATION.
- 8. PROVIDE ONE 20A, 120V, 1Ph POWER CONNECTION FOR LANDSCAPE LIGHTING SYSTEM AS REQUIRED. CONSULT LANDSCAPE CONTRACTOR FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
- 9. PROVIDE ROUGH IN FOR DEDICATED ANALOG PHONE LINE, TO BE INSTALLED BY OTHERS.
- 10. 20A, 120V, 1P ELECTRICAL CONNECTION FOR HEAT TRACE.
- 11. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR ACCESS CONTROL SYSTEM INSTALLED BY OTHERS. REFER SCHEDULE FOR PANEL 'HP' FOR CIRCUIT DESIGNATION.
- 12. PROVIDE ONE 20A RECEPTACLE ON DEDICATED CIRCUIT WITH CLOSET LIGHT. CIRCUIT TO PANEL HP-34.

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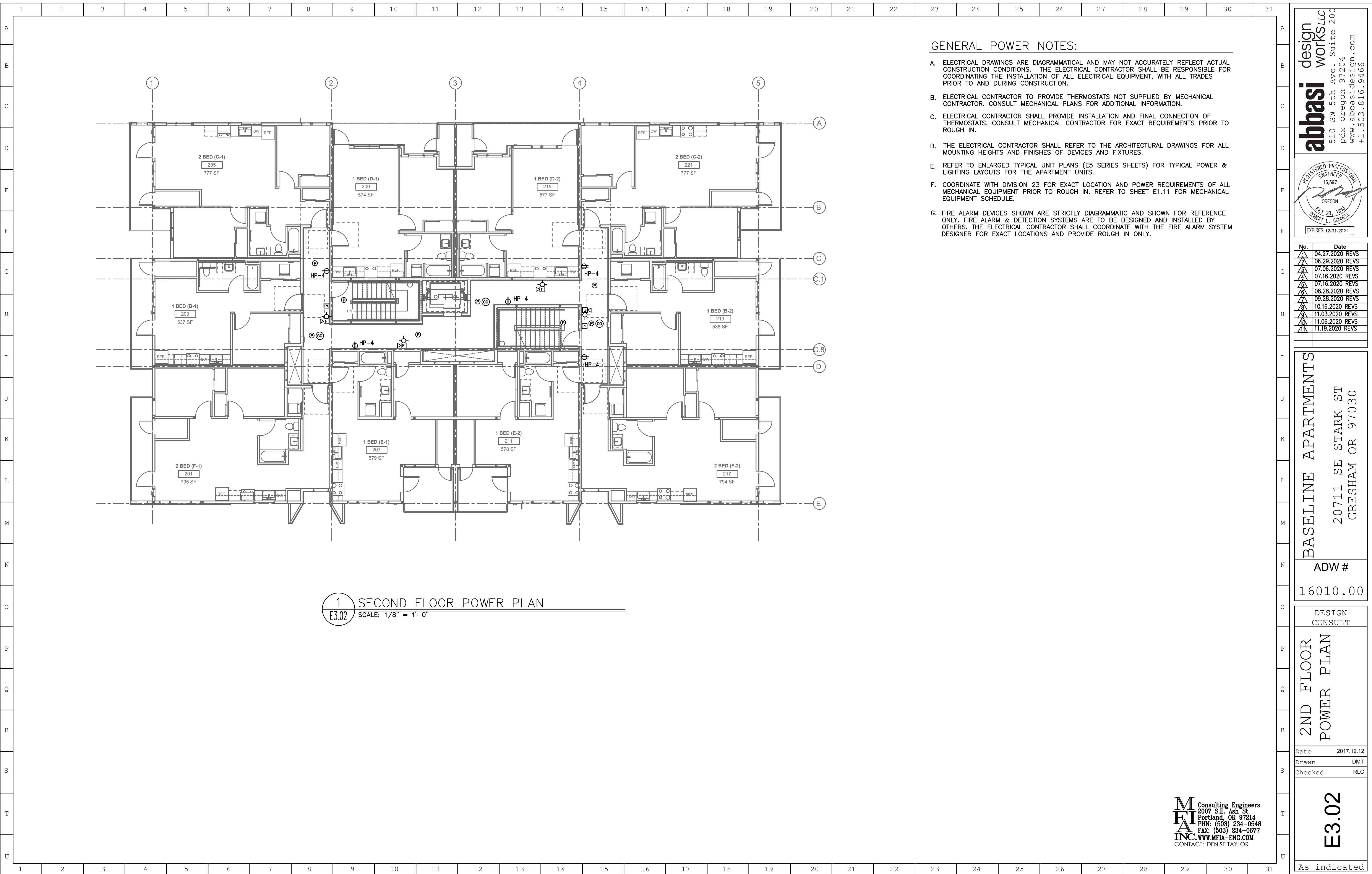
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1ST FLOOR POWER PLAN

Date	2017.12.12
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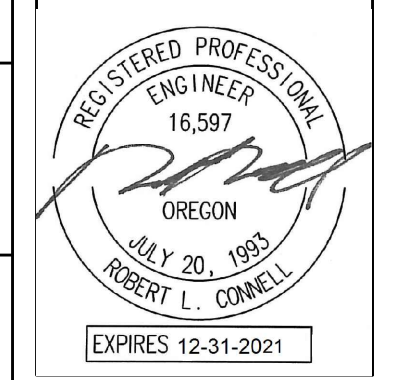
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GENERAL POWER NOTES:

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- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.11 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

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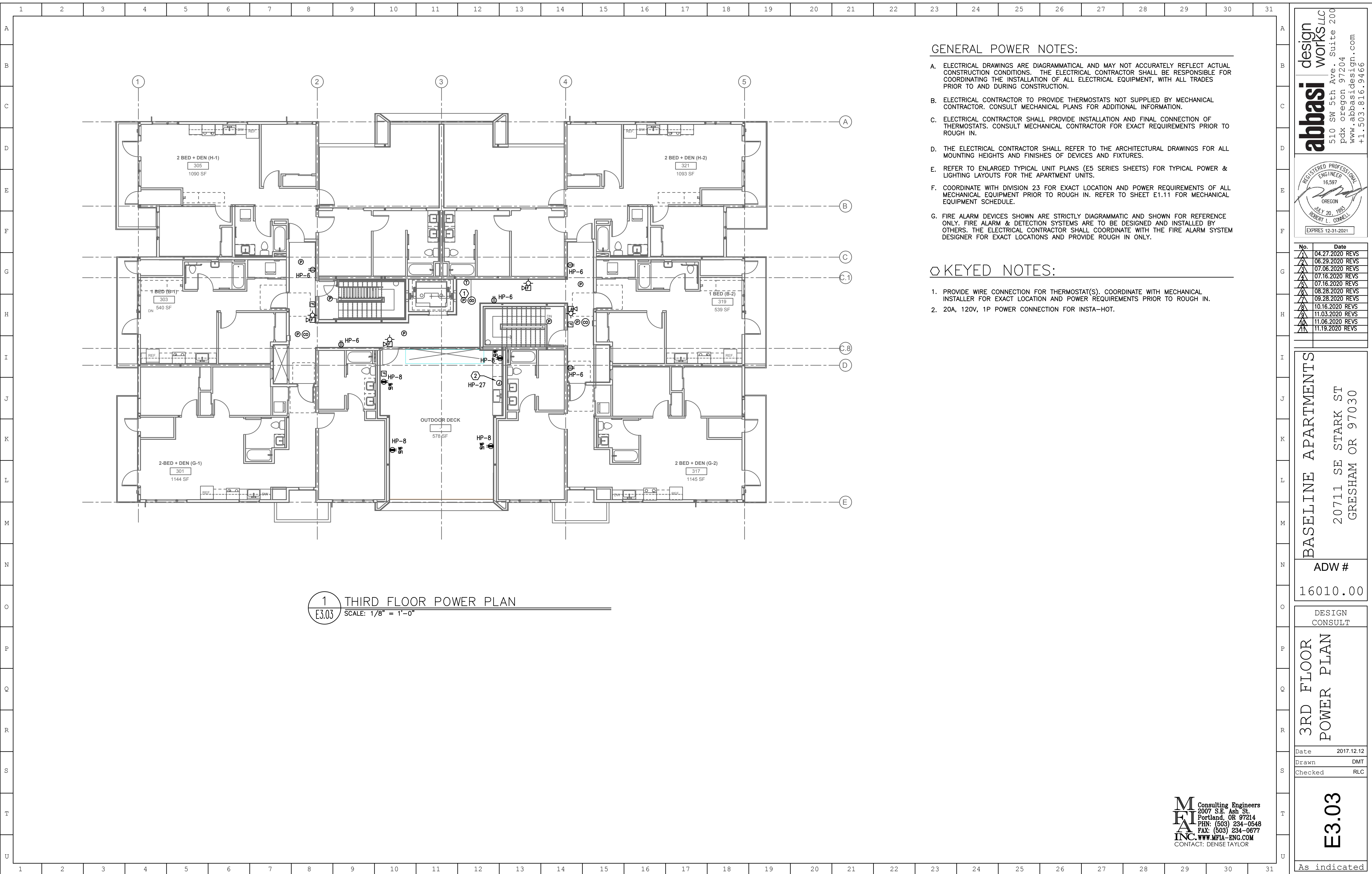
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2ND FLOOR POWER PLAN

Date	2017.12.12
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E3.02
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1 THIRD FLOOR POWER PLAN
 E3.03 SCALE: 1/8" = 1'-0"

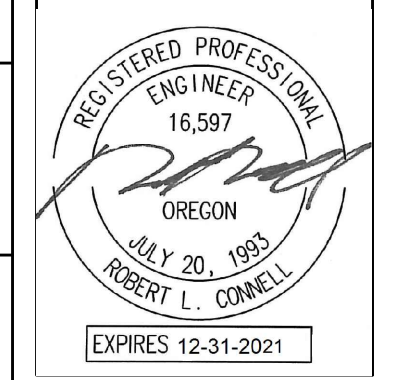
GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E5 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.11 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

KEYED NOTES:

- 1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2. 20A, 120V, 1P POWER CONNECTION FOR INSTA-HOT.

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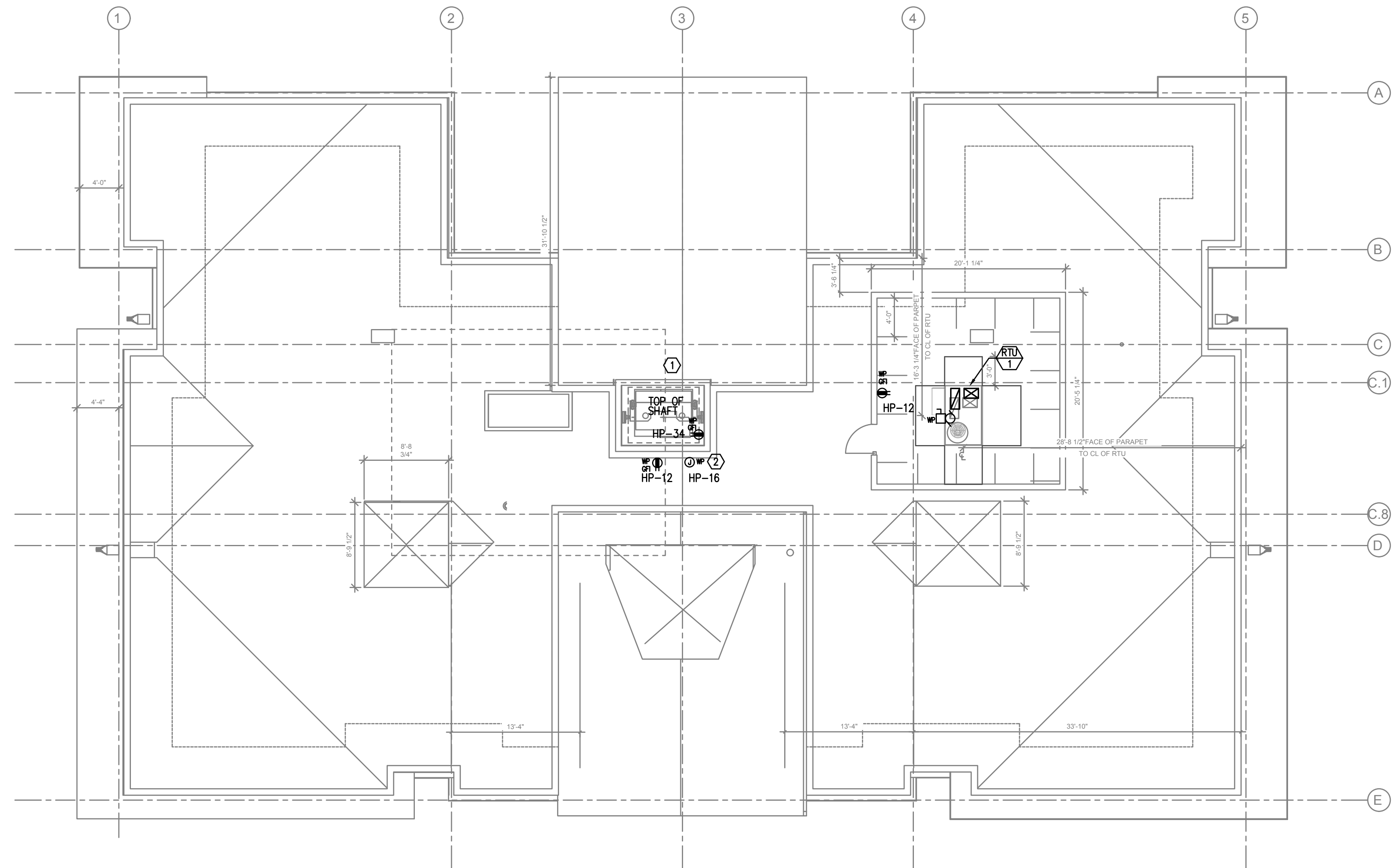
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3RD FLOOR POWER PLAN

Date 2017.12.12
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E3.03
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1 ROOF LEVEL POWER PLAN
 E3.04 SCALE: 1/8" = 1'-0"

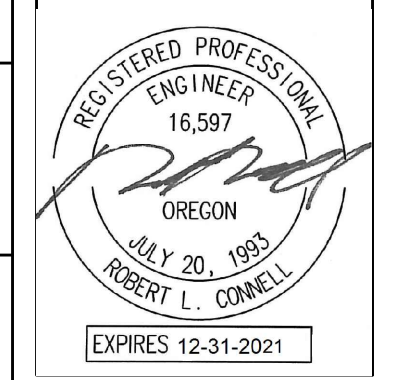
GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. PROVIDE ONE WEATHERPROOF GFCI RATED DUPLEX RECEPTACLE WITHIN 25'-0" OF ROOFTOP MECHANICAL EQUIPMENT AS REQUIRED BY CODE.
- D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR POWER REQUIREMENTS AND EXACT LOCATION OF ALL EQUIPMENT TO BE INSTALLED, INCLUDING MECHANICAL, LANDSCAPING, ETC., PRIOR TO ROUGH IN.
- L. CONSULT WITH ELEVATOR INSTALLER AND COORDINATE ALL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, CONDUCTORS AND ANY WIRING DEVICES FOR COMPLETE INSTALL.

KEYED NOTES:

- 1. CONSULT ELEVATOR PROVIDER'S INSTALLATION DRAWINGS AND DOCUMENTATION FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN AND COORDINATE ALL WORK.
- 2. PROVIDE ONE 20A, 120V, 1PH POWER CONNECTION FOR IRRIGATION SYSTEM AS REQUIRED. CONSULT LANDSCAPE CONTRACTOR FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.

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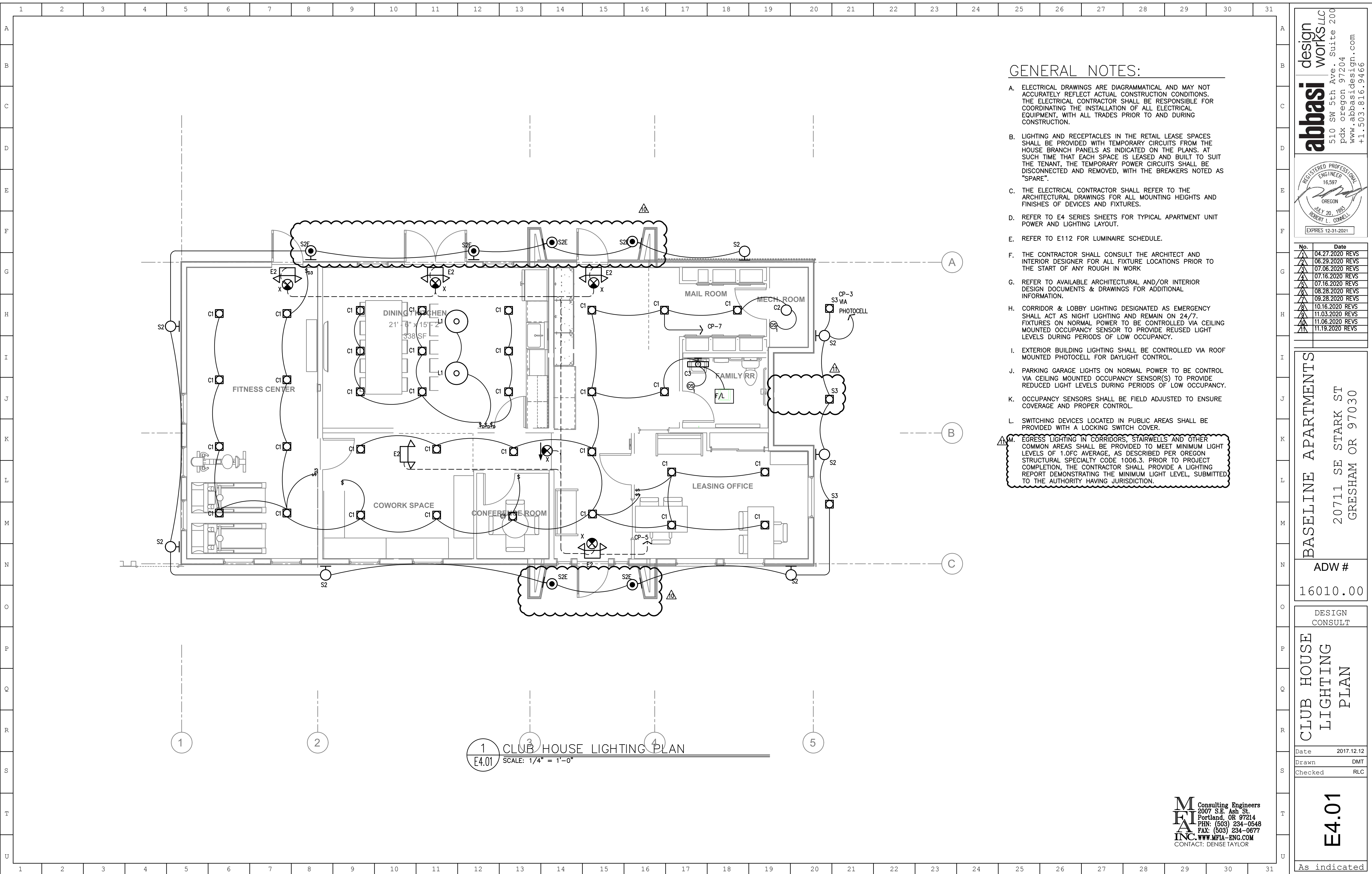
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ROOF LEVEL POWER PLAN

Date 2017.12.12
 Drawn DMT
 Checked RLC

E3.04
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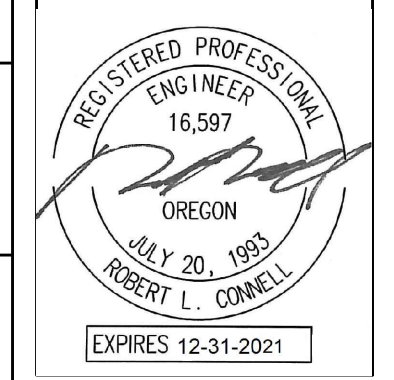
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GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. LIGHTING AND RECEPTACLES IN THE RETAIL LEASE SPACES SHALL BE PROVIDED WITH TEMPORARY CIRCUITS FROM THE HOUSE BRANCH PANELS AS INDICATED ON THE PLANS. AT SUCH TIME THAT EACH SPACE IS LEASED AND BUILT TO SUIT THE TENANT, THE TEMPORARY POWER CIRCUITS SHALL BE DISCONNECTED AND REMOVED, WITH THE BREAKERS NOTED AS "SPARE".
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E4 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- E. REFER TO E112 FOR LUMINAIRE SCHEDULE.
- F. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK
- G. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- H. CORRIDOR & LOBBY LIGHTING DESIGNATED AS EMERGENCY SHALL ACT AS NIGHT LIGHTING AND REMAIN ON 24/7. FIXTURES ON NORMAL POWER TO BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR TO PROVIDE REUSED LIGHT LEVELS DURING PERIODS OF LOW OCCUPANCY.
- I. EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED VIA ROOF MOUNTED PHOTOCELL FOR DAYLIGHT CONTROL.
- J. PARKING GARAGE LIGHTS ON NORMAL POWER TO BE CONTROL VIA CEILING MOUNTED OCCUPANCY SENSOR(S) TO PROVIDE REDUCED LIGHT LEVELS DURING PERIODS OF LOW OCCUPANCY.
- K. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- L. SWITCHING DEVICES LOCATED IN PUBLIC AREAS SHALL BE PROVIDED WITH A LOCKING SWITCH COVER.
- M. EGRESS LIGHTING IN CORRIDORS, STAIRWELLS AND OTHER COMMON AREAS SHALL BE PROVIDED TO MEET MINIMUM LIGHT LEVELS OF 1.0FC AVERAGE, AS DESCRIBED PER OREGON STRUCTURAL SPECIALTY CODE 1006.3. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A LIGHTING REPORT DEMONSTRATING THE MINIMUM LIGHT LEVEL, SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.

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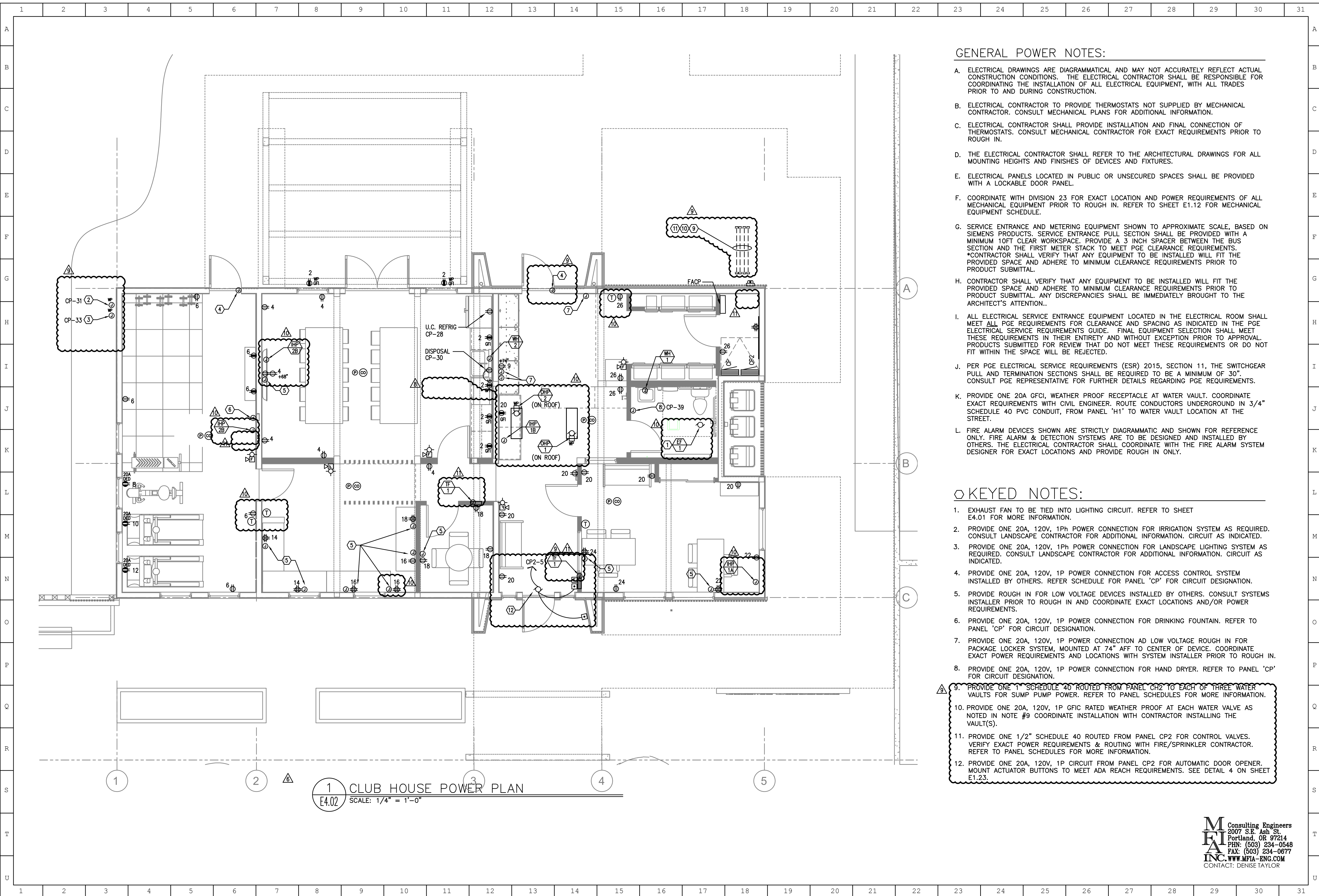
CLUB HOUSE LIGHTING PLAN

Date	2017.12.12
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1 CLUB HOUSE LIGHTING PLAN
 E4.01 SCALE: 1/4" = 1'-0"

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1 CLUB HOUSE POWER PLAN
 E4.02 SCALE: 1/4" = 1'-0"

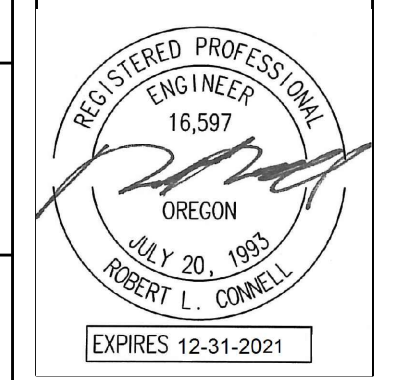
GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- E. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.12 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. SERVICE ENTRANCE PULL SECTION SHALL BE PROVIDED WITH A MINIMUM 10FT CLEAR WORKSPACE. PROVIDE A 3" INCH SPACER BETWEEN THE BUS SECTION AND THE FIRST METER STACK TO MEET PGE CLEARANCE REQUIREMENTS. *CONTRACTOR SHALL VERIFY THAT ANY EQUIPMENT TO BE INSTALLED WILL FIT THE PROVIDED SPACE AND ADHERE TO MINIMUM CLEARANCE REQUIREMENTS PRIOR TO PRODUCT SUBMITTAL.
- H. CONTRACTOR SHALL VERIFY THAT ANY EQUIPMENT TO BE INSTALLED WILL FIT THE PROVIDED SPACE AND ADHERE TO MINIMUM CLEARANCE REQUIREMENTS PRIOR TO PRODUCT SUBMITTAL. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT'S ATTENTION.
- I. ALL ELECTRICAL SERVICE ENTRANCE EQUIPMENT LOCATED IN THE ELECTRICAL ROOM SHALL MEET ALL PGE REQUIREMENTS FOR CLEARANCE AND SPACING AS INDICATED IN THE PGE ELECTRICAL SERVICE REQUIREMENTS GUIDE. FINAL EQUIPMENT SELECTION SHALL MEET THESE REQUIREMENTS IN THEIR ENTIRETY AND WITHOUT EXCEPTION PRIOR TO APPROVAL. PRODUCTS SUBMITTED FOR REVIEW THAT DO NOT MEET THESE REQUIREMENTS OR DO NOT FIT WITHIN THE SPACE WILL BE REJECTED.
- J. PER PGE ELECTRICAL SERVICE REQUIREMENTS (ESR) 2015, SECTION 11, THE SWITCHGEAR PULL AND TERMINATION SECTIONS SHALL BE REQUIRED TO BE A MINIMUM OF 30". CONSULT PGE REPRESENTATIVE FOR FURTHER DETAILS REGARDING PGE REQUIREMENTS.
- K. PROVIDE ONE 20A GFCI, WEATHER PROOF RECEPTACLE AT WATER VAULT. COORDINATE EXACT REQUIREMENTS WITH CIVIL ENGINEER. ROUTE CONDUCTORS UNDERGROUND IN 3/4" SCHEDULE 40 PVC CONDUIT, FROM PANEL 'H1' TO WATER VAULT LOCATION AT THE STREET.
- L. FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

KEYED NOTES:

- 1. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT. REFER TO SHEET E4.01 FOR MORE INFORMATION.
- 2. PROVIDE ONE 20A, 120V, 1PH POWER CONNECTION FOR IRRIGATION SYSTEM AS REQUIRED. CONSULT LANDSCAPE CONTRACTOR FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
- 3. PROVIDE ONE 20A, 120V, 1PH POWER CONNECTION FOR LANDSCAPE LIGHTING SYSTEM AS REQUIRED. CONSULT LANDSCAPE CONTRACTOR FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
- 4. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR ACCESS CONTROL SYSTEM INSTALLED BY OTHERS. REFER SCHEDULE FOR PANEL 'CP' FOR CIRCUIT DESIGNATION.
- 5. PROVIDE ROUGH IN FOR LOW VOLTAGE DEVICES INSTALLED BY OTHERS. CONSULT SYSTEMS INSTALLER PRIOR TO ROUGH IN AND COORDINATE EXACT LOCATIONS AND/OR POWER REQUIREMENTS.
- 6. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR DRINKING FOUNTAIN. REFER TO PANEL 'CP' FOR CIRCUIT DESIGNATION.
- 7. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION AD LOW VOLTAGE ROUGH IN FOR PACKAGE LOCKER SYSTEM, MOUNTED AT 74" AFF TO CENTER OF DEVICE. COORDINATE EXACT POWER REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER PRIOR TO ROUGH IN.
- 8. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR HAND DRYER. REFER TO PANEL 'CP' FOR CIRCUIT DESIGNATION.
- 9. PROVIDE ONE 1" SCHEDULE 40 ROUTED FROM PANEL CP2 TO EACH OF THREE WATER VAULTS FOR SUMP PUMP POWER. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- 10. PROVIDE ONE 20A, 120V, 1P GFCI RATED WEATHER PROOF AT EACH WATER VALVE AS NOTED IN NOTE #9 COORDINATE INSTALLATION WITH CONTRACTOR INSTALLING THE VAULT(S).
- 11. PROVIDE ONE 1/2" SCHEDULE 40 ROUTED FROM PANEL CP2 FOR CONTROL VALVES. VERIFY EXACT POWER REQUIREMENTS & ROUTING WITH FIRE/SPRINKLER CONTRACTOR. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- 12. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL CP2 FOR AUTOMATIC DOOR OPENER. MOUNT ACTUATOR BUTTONS TO MEET ADA REACH REQUIREMENTS. SEE DETAIL 4 ON SHEET E1.23.

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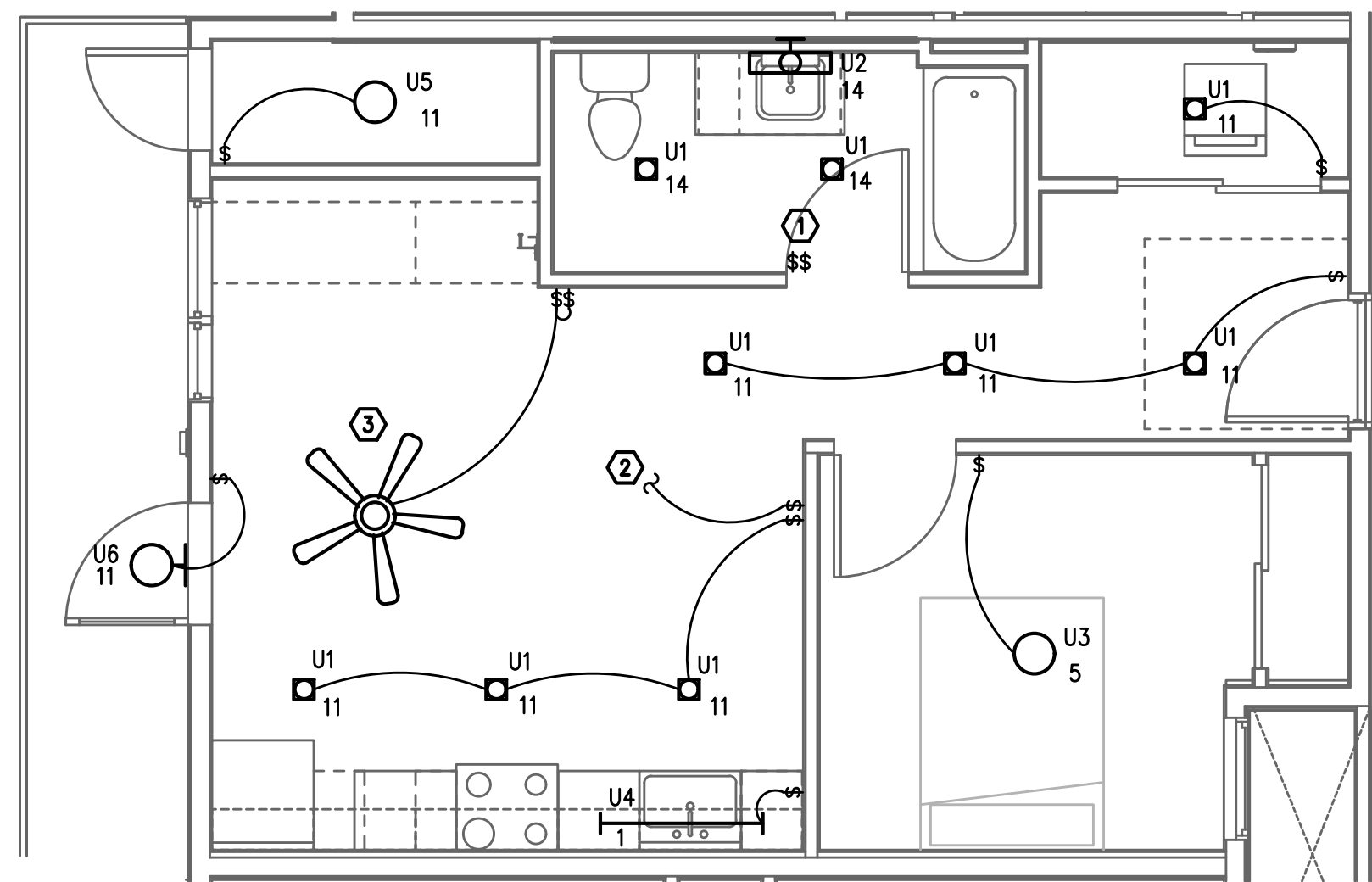
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CLUB HOUSE POWER PLAN

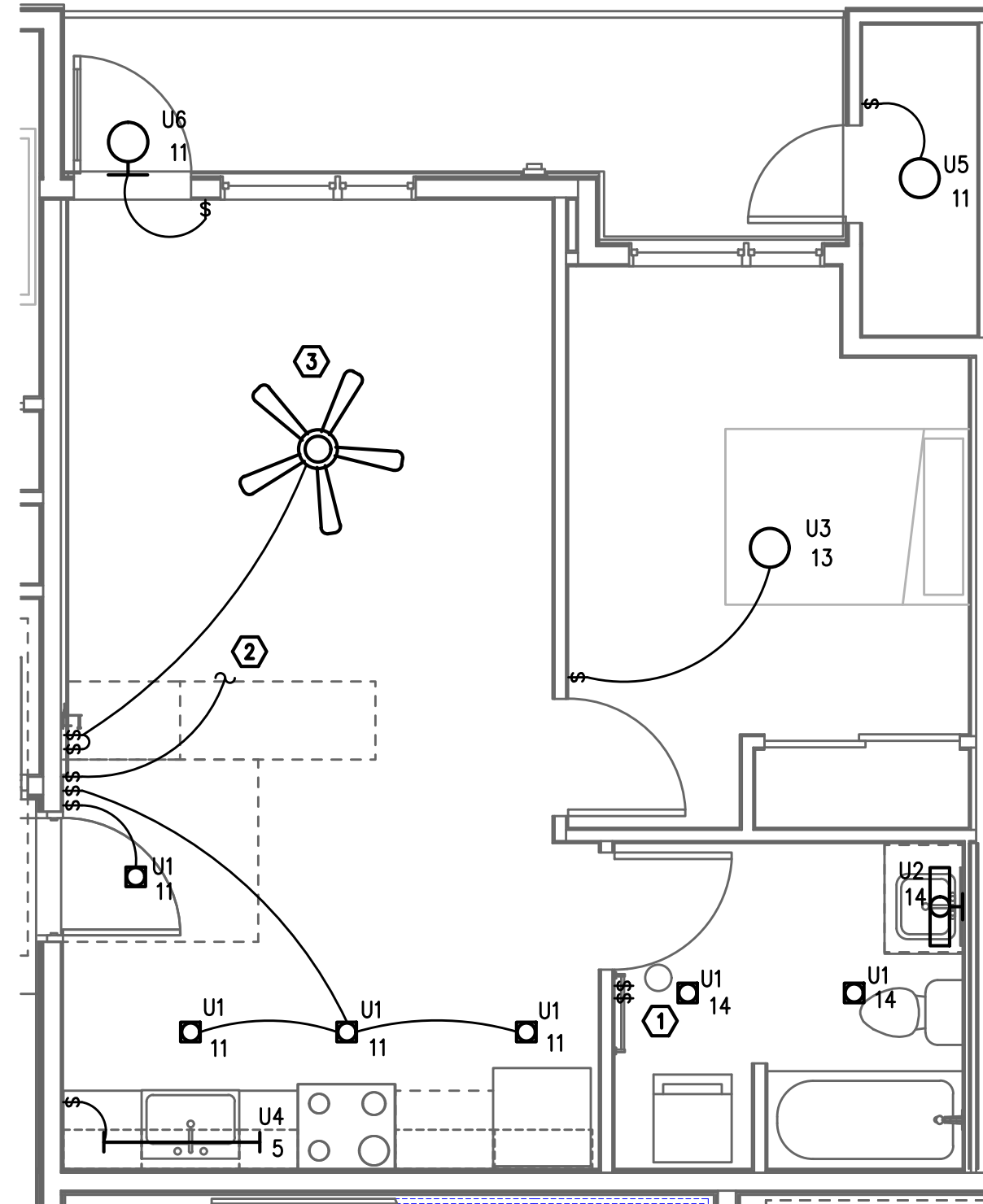
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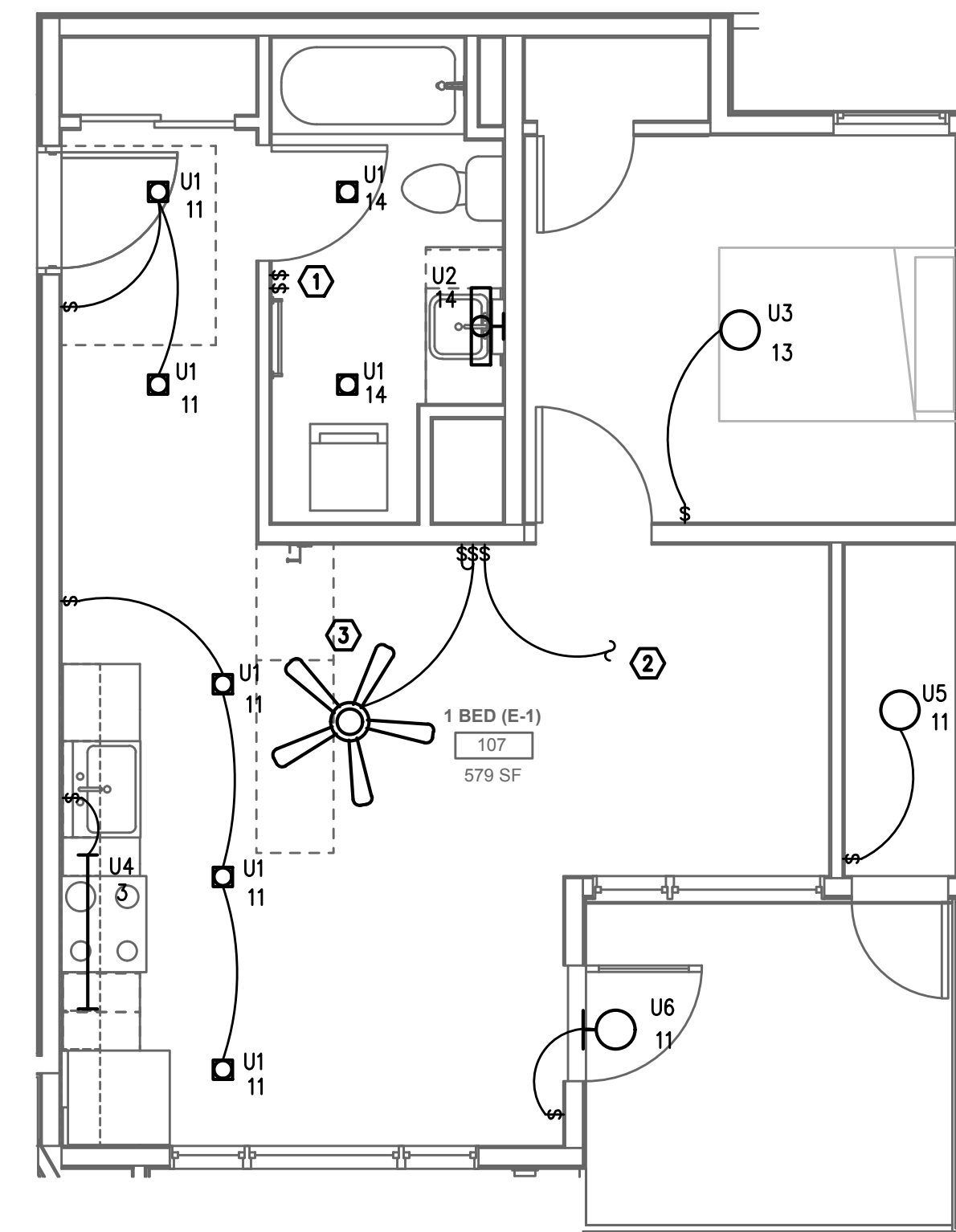
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1 TYPICAL UNIT B-1 – LIGHTING PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE B-2)



2 TYPICAL UNIT D-1 – LIGHTING PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE D-2)



3 TYPICAL UNIT E-1 – LIGHTING PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE E-2)

GENERAL NOTES:

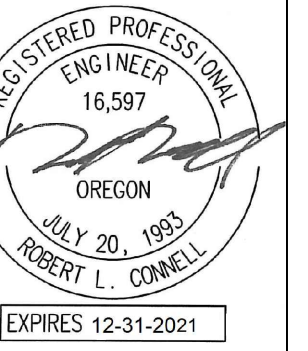
- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO SHEETS E5.11 – E5.13 FOR TYPICAL UNIT POWER PLANS.

KEYED NOTES:

1. REFER TO E1.22 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
2. SWITCHED RECEPTACLE. REFER TO SHEETS E5.11 THRU E5.13 FOR RECEPTACLE LOCATION.
3. CEILING FAN PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE BLOCKING AT THE CEILING TO SUPPORT THE WEIGHT OF THE FAN. TIE INTO LIVING ROOM LIGHT CIRCUIT.

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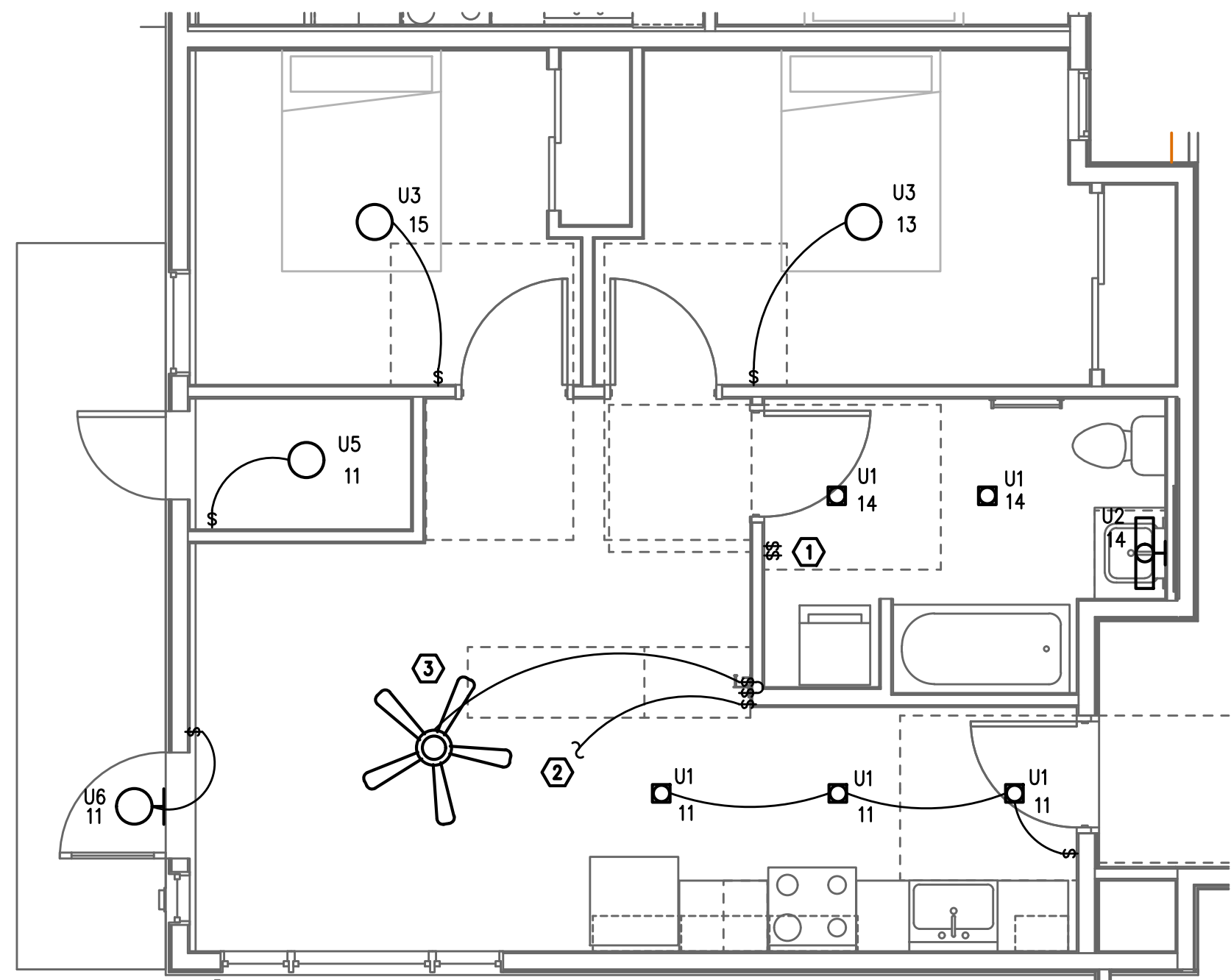
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TYPICAL UNITS LIGHTING PLAN

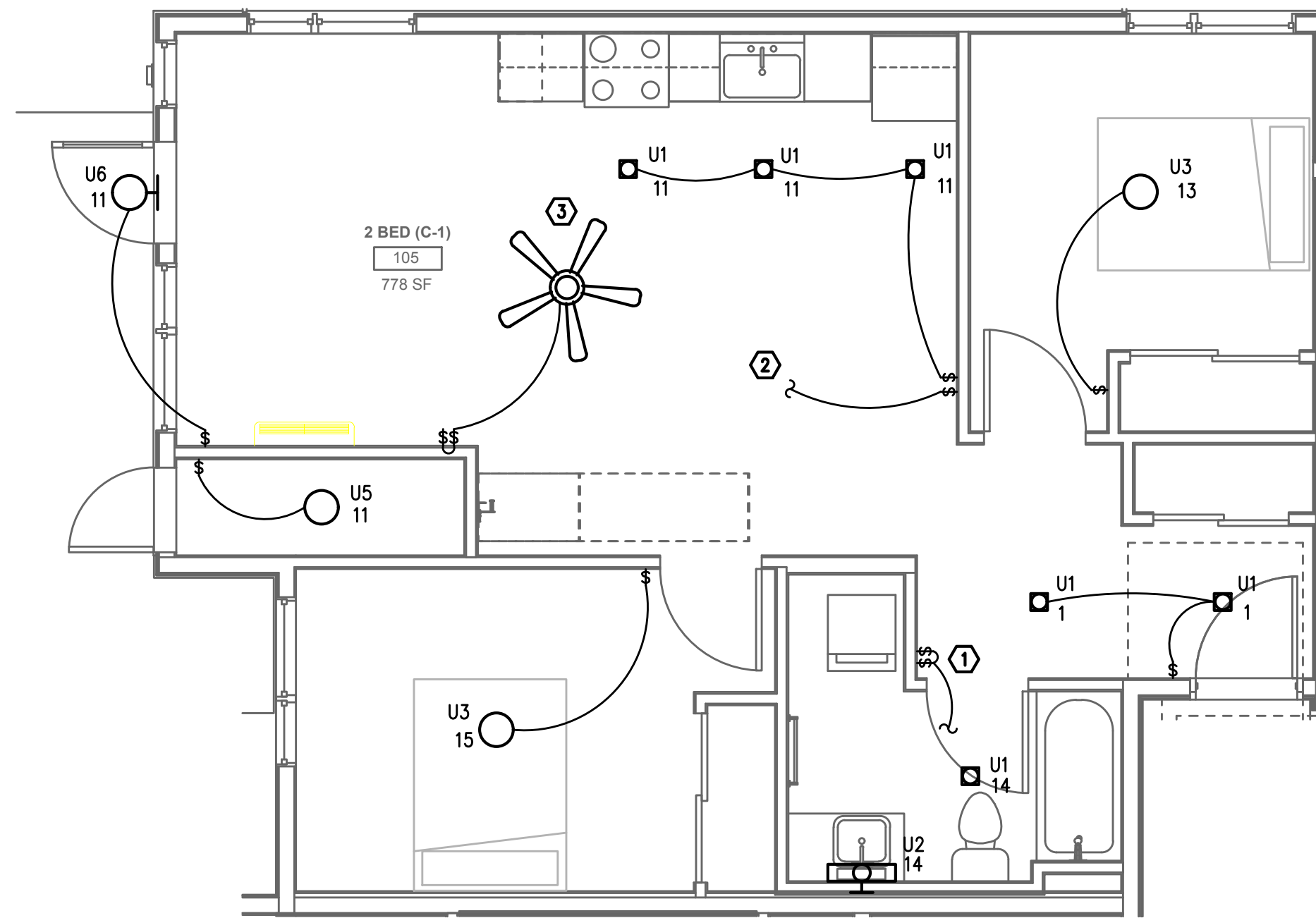
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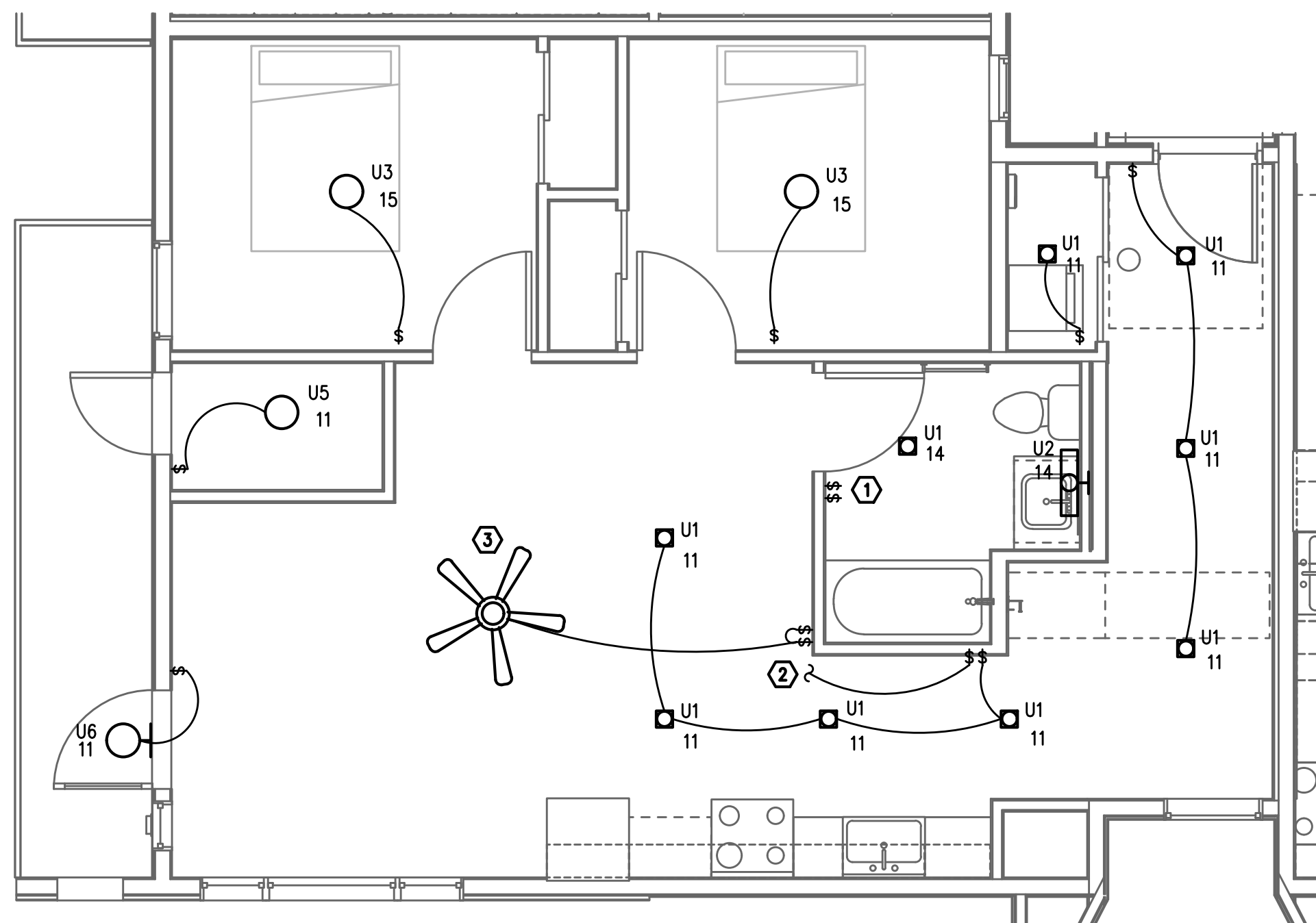
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1 TYPICAL UNIT A-1 – LIGHTING PLAN
 E5.02 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE A-2)



2 TYPICAL UNIT C-1 – LIGHTING PLAN
 E5.02 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE C-2)



3 TYPICAL UNIT F-1 – LIGHTING PLAN
 E5.02 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE F-2)

GENERAL NOTES:

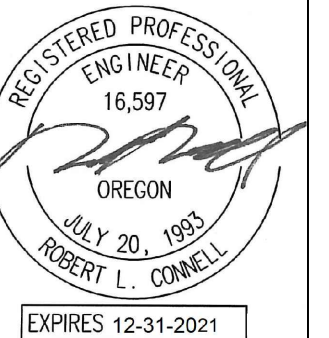
- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO SHEETS E5.11 – E5.13 FOR TYPICAL UNIT POWER PLANS.

KEYED NOTES:

- 1. REFER TO E1.22 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 2. SWITCHED RECEPTACLE. REFER TO SHEETS E5.11 THRU E5.13 FOR RECEPTACLE LOCATION.
- 3. CEILING FAN PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE BLOCKING AT THE CEILING TO SUPPORT THE WEIGHT OF THE FAN. TIE INTO LIVING ROOM LIGHT CIRCUIT.

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10	11.06.2020 REVS
11	11.19.2020 REVS

BASELINE APARTMENTS
 20711 SE STARK ST
 GRESHAM OR 97030

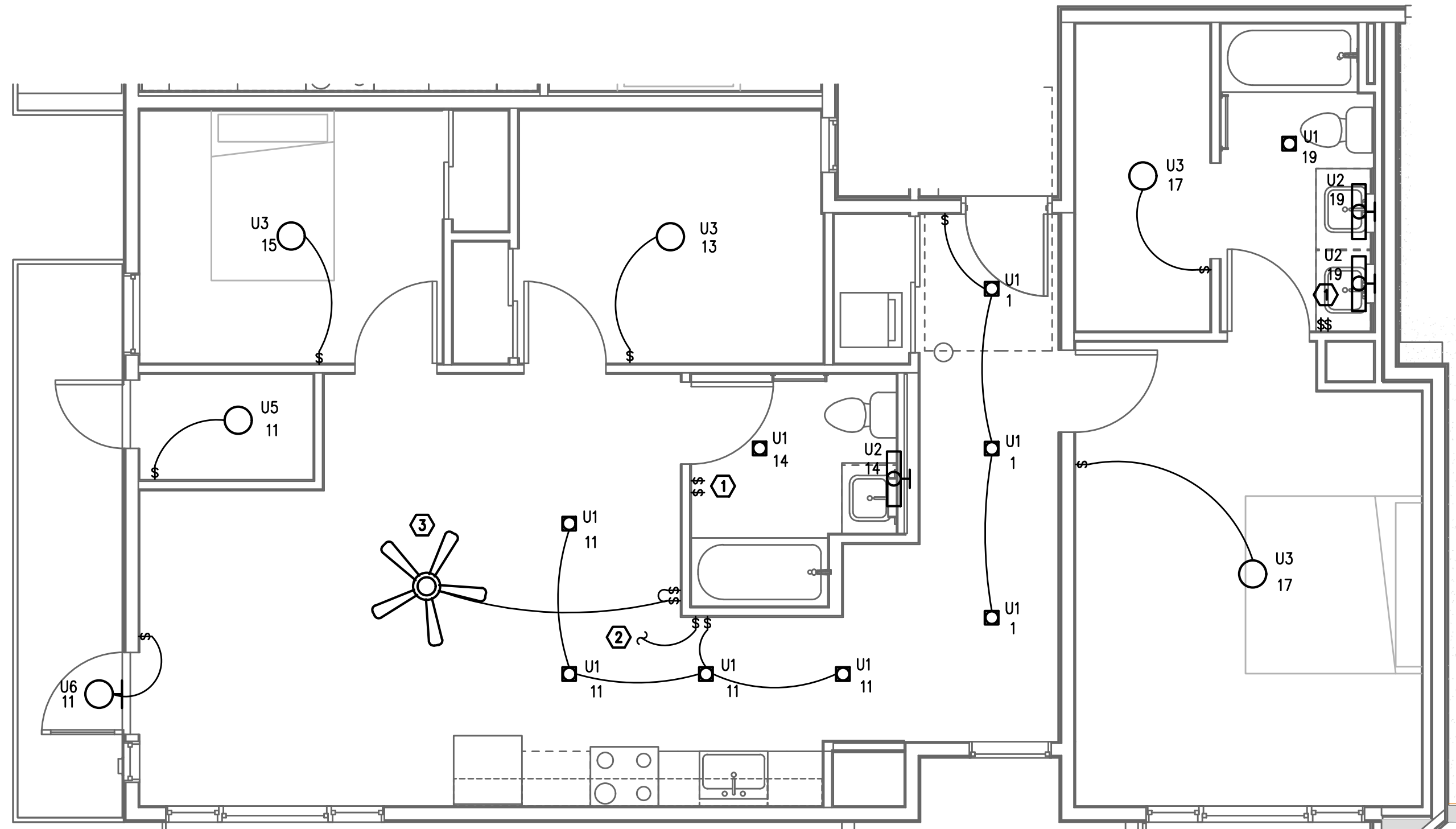
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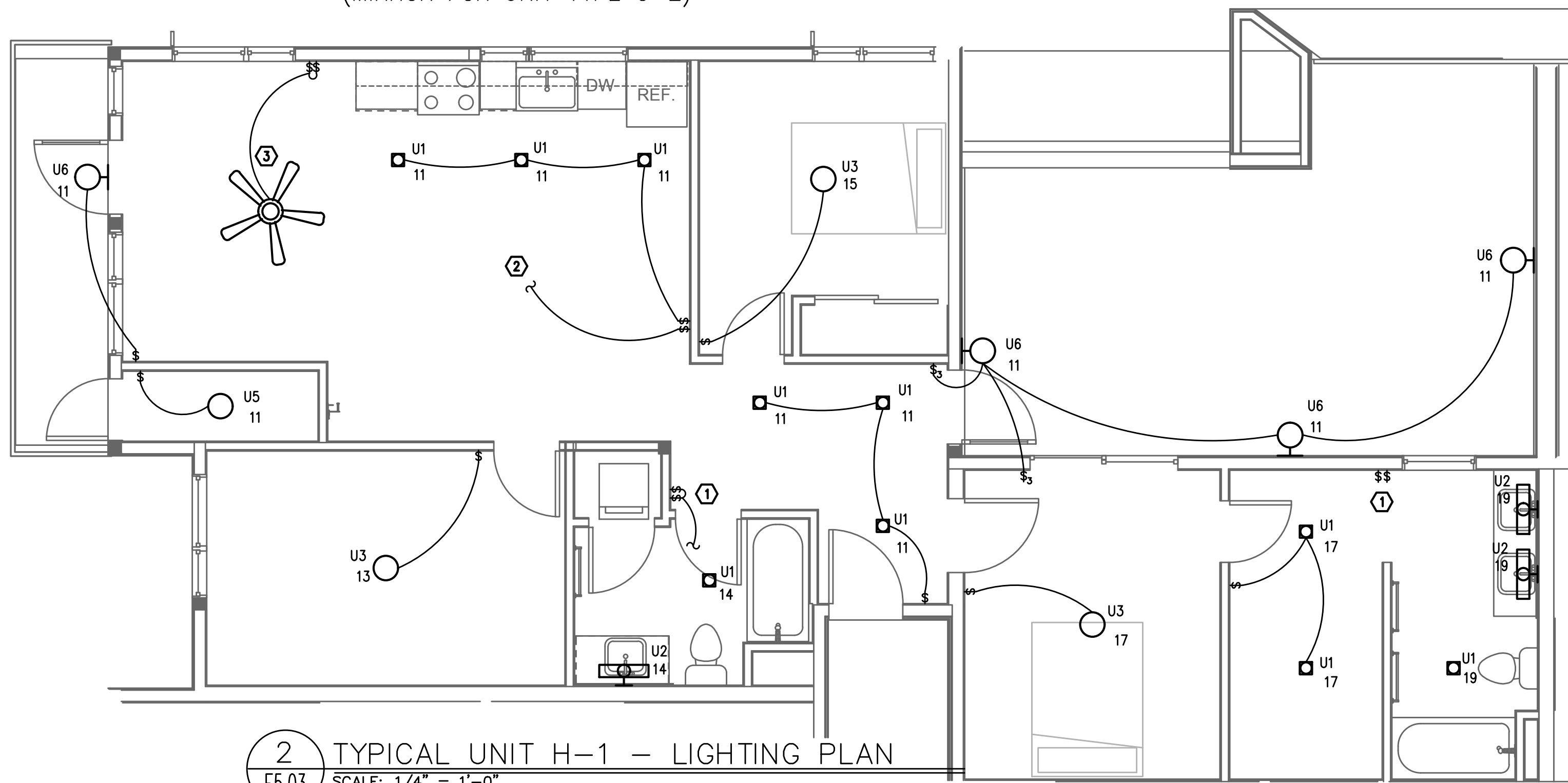
TYPICAL UNITS LIGHTING PLAN

Date	2017.12.12
Drawn	DMT
Checked	RLC

E5.02
 As indicated



1
E5.03 TYPICAL UNIT G-1 – LIGHTING PLAN
SCALE: 1/4" = 1'-0"
(MIRROR FOR UNIT TYPE G-2)



2
E5.03 TYPICAL UNIT H-1 – LIGHTING PLAN
SCALE: 1/4" = 1'-0"
(MIRROR FOR UNIT TYPE H-2)

GENERAL NOTES:

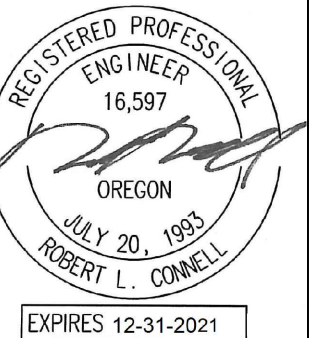
- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO SHEETS E5.11 – E5.13 FOR TYPICAL UNIT POWER PLANS.

KEYED NOTES:

- 1. REFER TO E1.22 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 2. SWITCHED RECEPTACLE. REFER TO SHEETS E5.11 THRU E5.13 FOR RECEPTACLE LOCATION.
- 3. CEILING FAN PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE BLOCKING AT THE CEILING TO SUPPORT THE WEIGHT OF THE FAN. TIE INTO LIVING ROOM LIGHT CIRCUIT.

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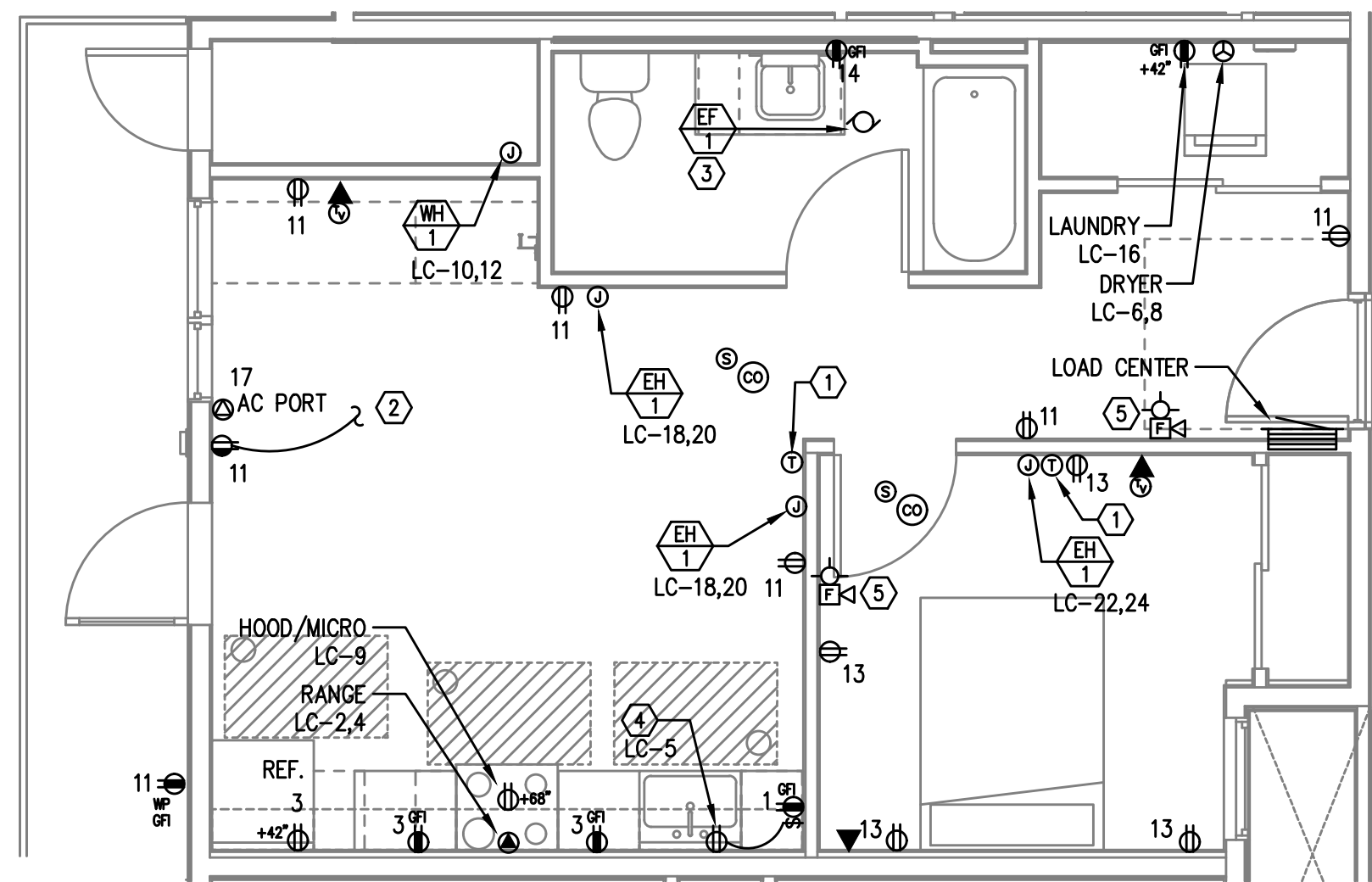
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TYPICAL UNITS LIGHTING PLAN

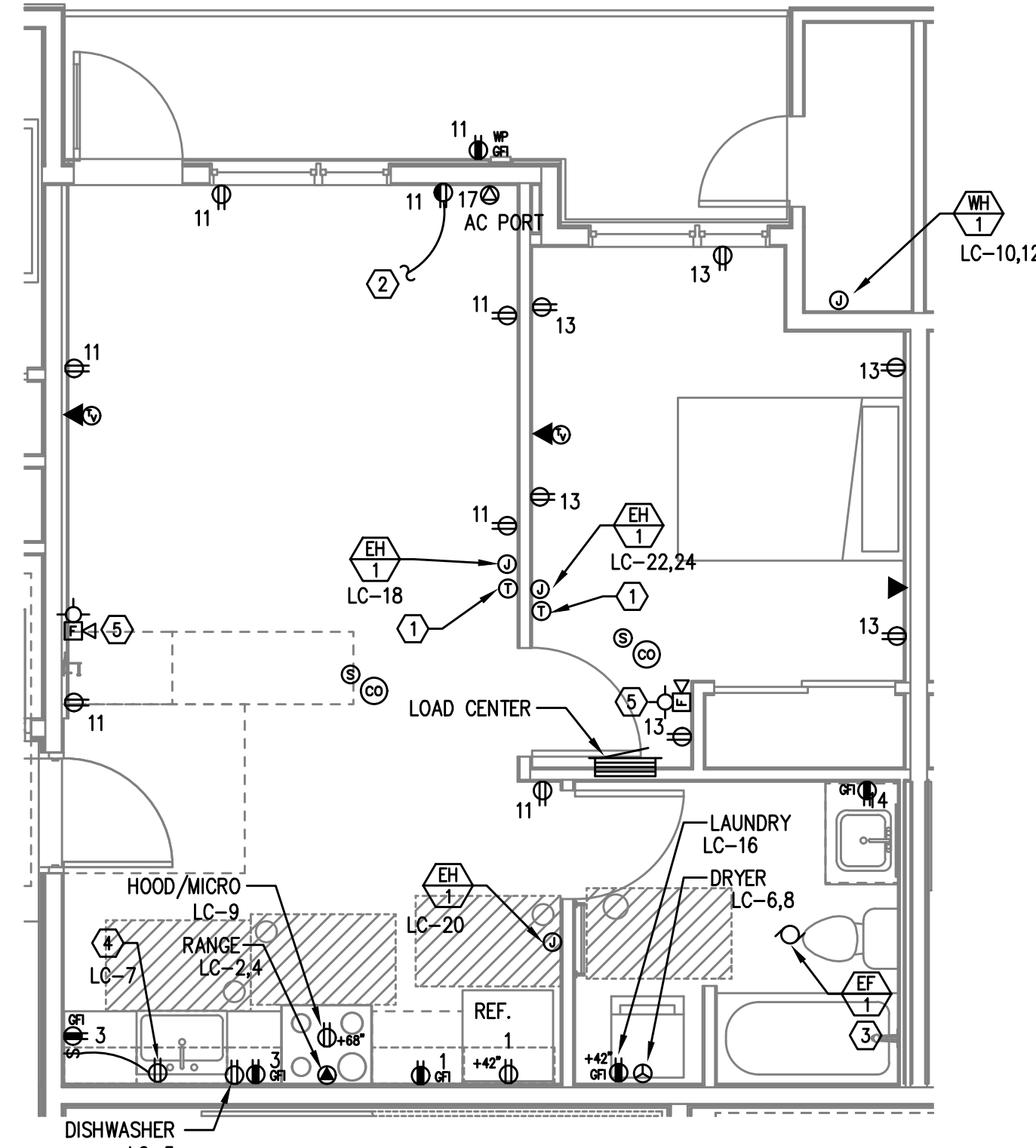
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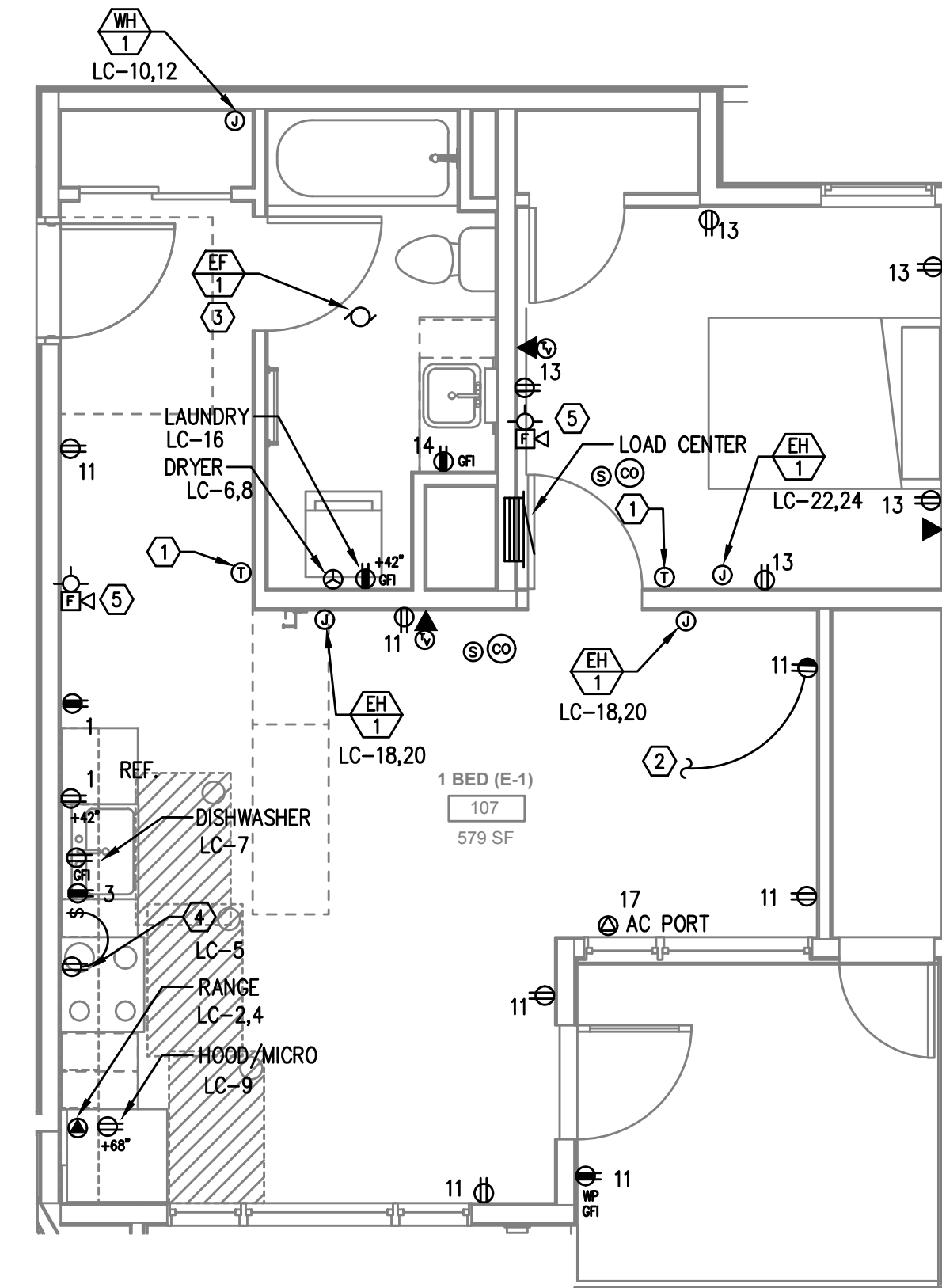
As indicated



1 TYPICAL UNIT B-1 – POWER PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE B-2)



2 TYPICAL UNIT D-1 – POWER PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE D-2)



3 TYPICAL UNIT E-1 – POWER PLAN
 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE E-2)

GENERAL NOTES:

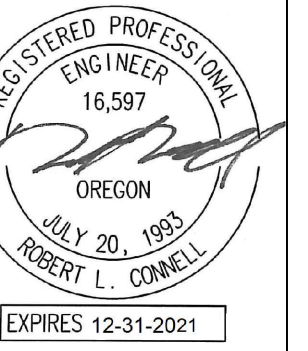
- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- REFER TO DETAILS ON SHEET E1.13 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
- STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.
- REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- LOW VOLTAGE DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE SYSTEMS DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- PER ARCHITECT'S DIRECTION, PROVIDE ROUGH IN FOR TV OUTLETS AT +44" AFF.

KEYED NOTES:

- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- SWITCHED RECEPTACLE. REFER TO E5.01-E5.03 TYPICAL UNIT LIGHTING PLANS FOR LOCATION.
- BATHROOM EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THE SPACE AND SWITCHED SEPARATELY FROM LIGHTS. REFER TO BATHROOM SWITCHING DETAIL ON SHEET E112.
- PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.
- HORN-STROBE CONNECTED TO FIRE SPRINKLER MONITORING PANEL.

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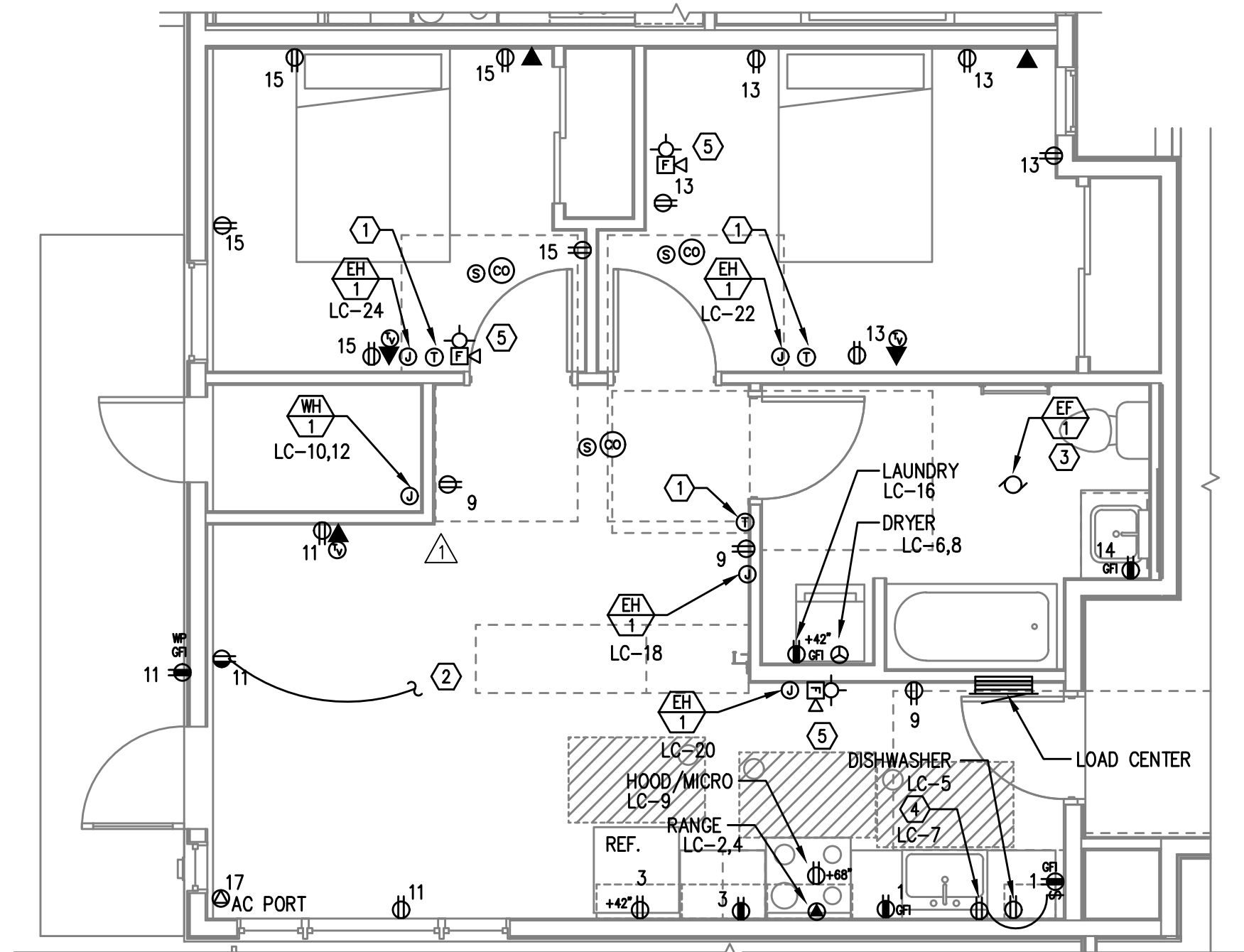
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TYPICAL UNITS
 POWER PLAN

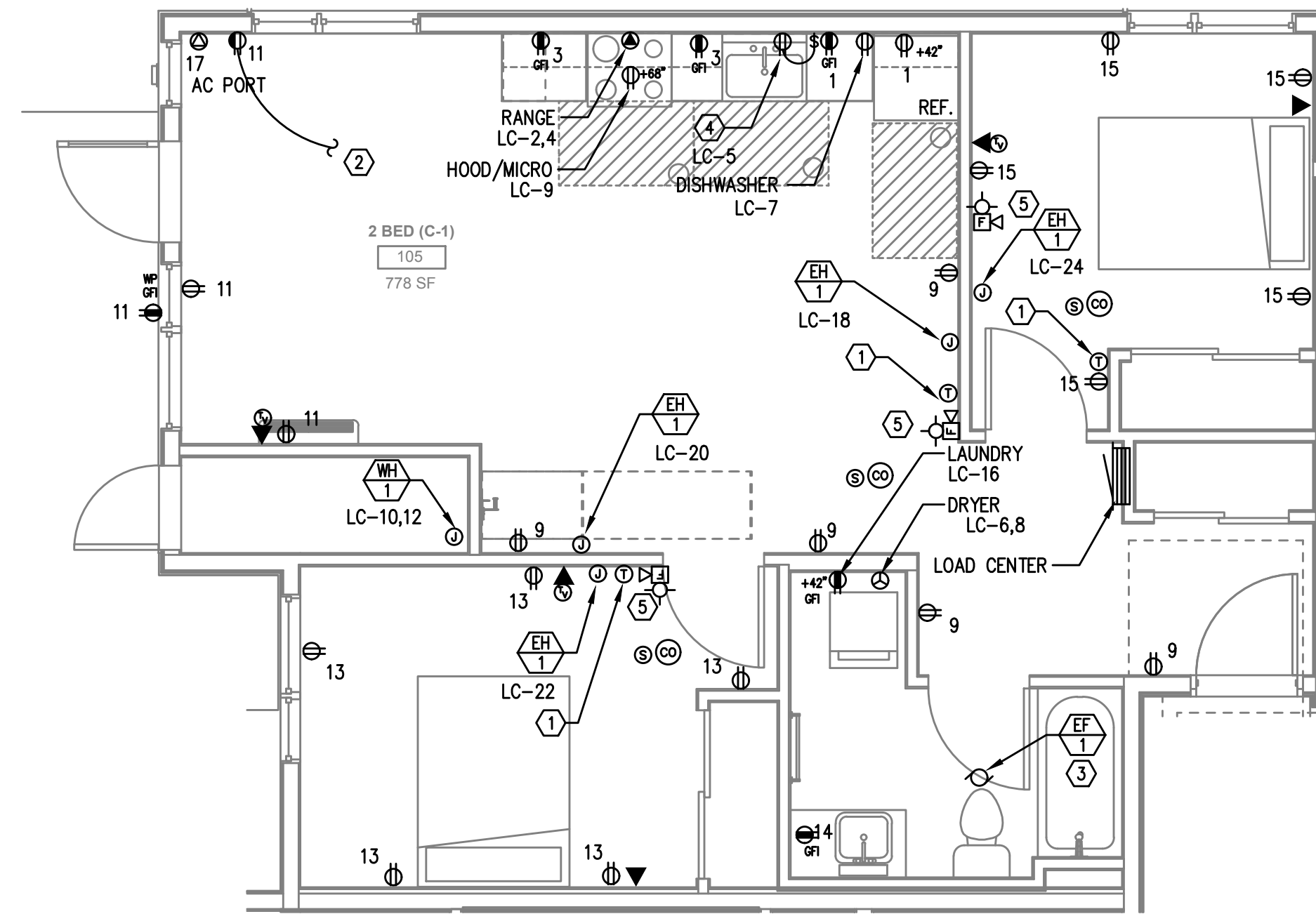
Date 2017.12.12
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 Checked RLC

E5.11

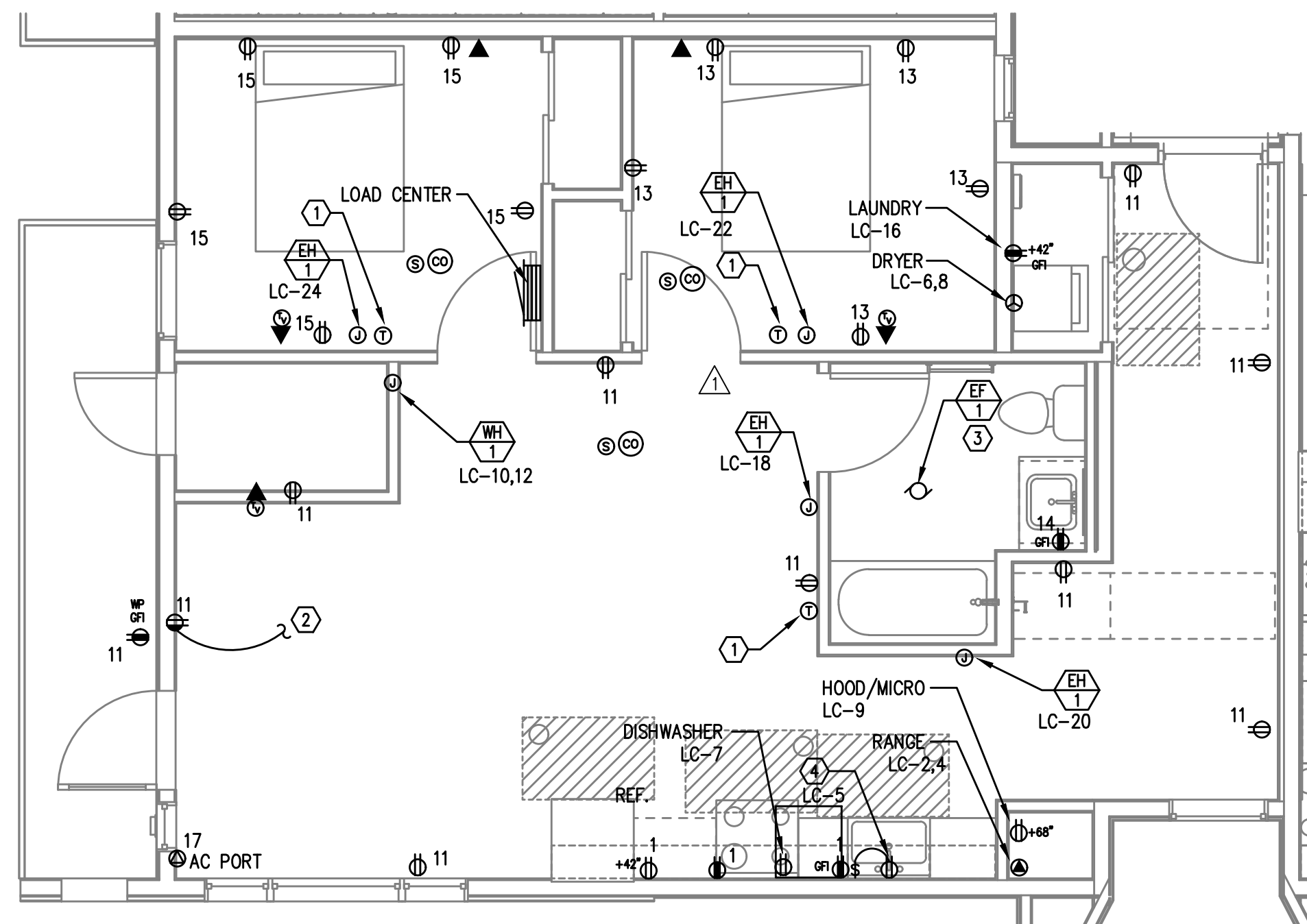
As indicated



1 TYPICAL UNIT A-1 – POWER PLAN
 E5.12 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE A-2)



2 TYPICAL UNIT C-1 – POWER PLAN
 E5.12 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE C-2)



3 TYPICAL UNIT F-1 – POWER PLAN
 E5.12 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE F-2)

GENERAL NOTES:

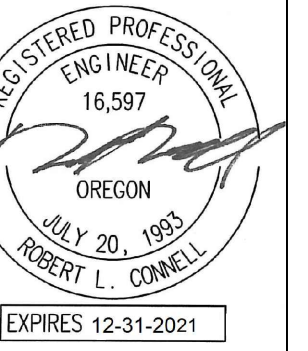
- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO DETAILS ON SHEET E1.13 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
- C. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.
- D. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- E. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- G. LOW VOLTAGE DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE SYSTEMS DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- H. FIRE ALARM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- I. PER ARCHITECT'S DIRECTION, PROVIDE ROUGH IN FOR TV OUTLETS AT +44" AFF.

KEYED NOTES:

- ① PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- ② SWITCHED RECEPTACLE. REFER TO E5.01-E5.03 TYPICAL UNIT LIGHTING PLANS FOR LOCATION.
- ③ BATHROOM EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THE SPACE AND SWITCHED SEPARATELY FROM LIGHTS. REFER TO BATHROOM SWITCHING DETAIL ON SHEET E112.
- ④ PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.

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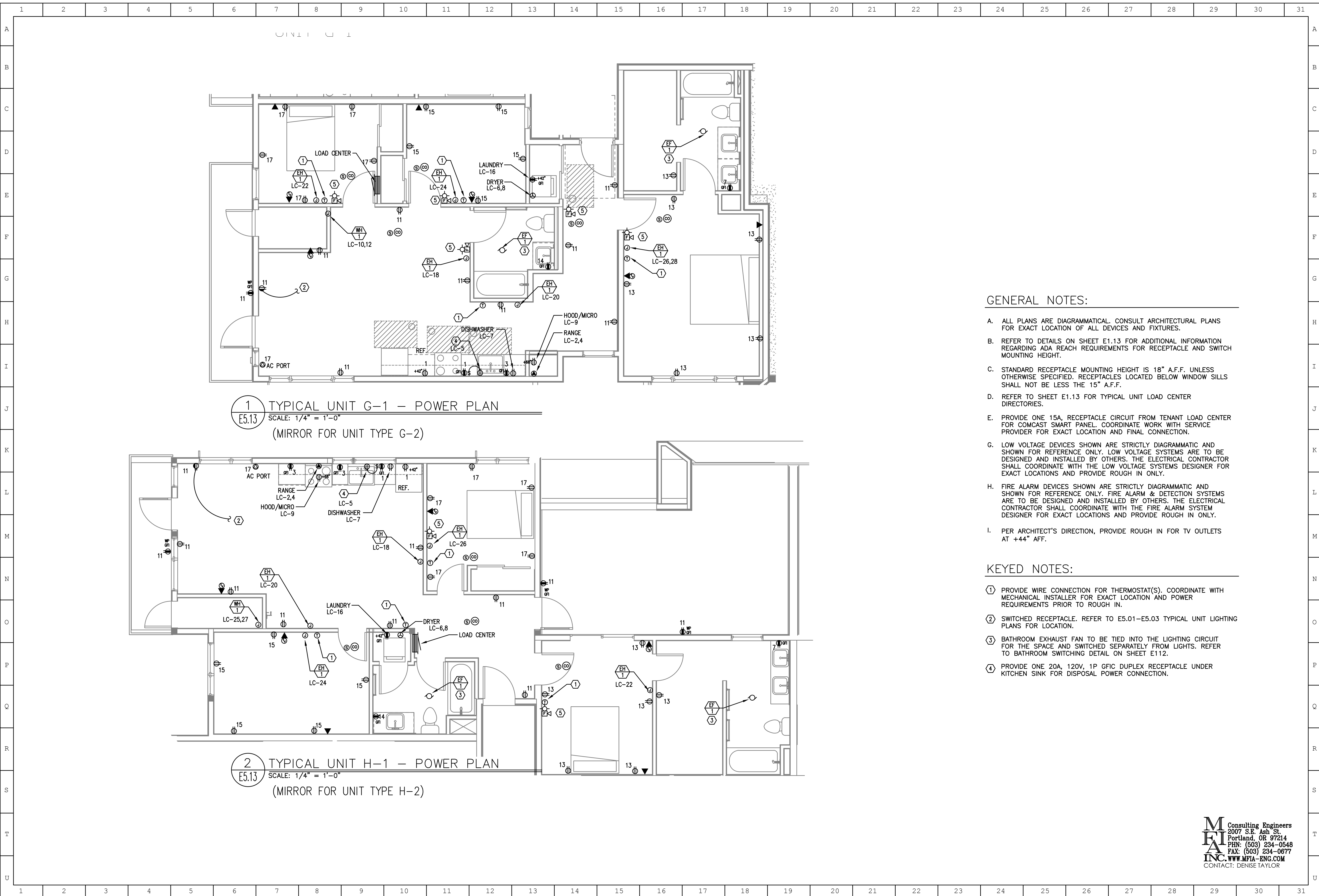
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TYPICAL UNITS POWER PLAN

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1 TYPICAL UNIT G-1 – POWER PLAN
 E5.13 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE G-2)

2 TYPICAL UNIT H-1 – POWER PLAN
 E5.13 SCALE: 1/4" = 1'-0"
 (MIRROR FOR UNIT TYPE H-2)

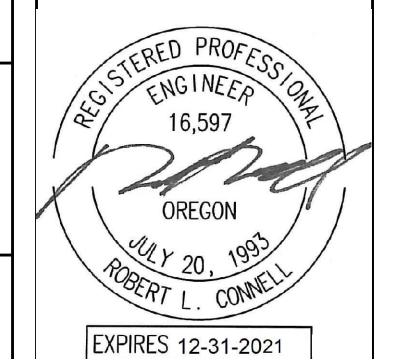
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