

ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

- FLUORESCENT LIGHT FIXTURE, RECESSED. TYPE AS NOTED.
- FLUORESCENT LIGHT FIXTURE, RECESSED - EMERGENCY
- FLUORESCENT LIGHT FIXTURE, SURFACE MOUNT
- FLUORESCENT LIGHT FIXTURE, STRIP
- FLUORESCENT LIGHT FIXTURE, STRIP - EMERGENCY
- DOWNLIGHT FIXTURE, RECESSED
- DOWNLIGHT FIXTURE, RECESSED - EMERGENCY
- FLUORESCENT LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, TRACK W/ HEADS AS SHOWN ON PLAN
- EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW
- EMERGENCY LIGHT W/ BATTERY PACK, +8'-0" A.F.F.
- H.I.D. AREA LUMINAIRE, POLE MOUNT

SWITCH SYMBOLS

- SWITCH, SPST +44" A.F.F. TO CENTER
- SWITCH, 3-WAY +44" A.F.F. TO CENTER
- (2) SWITCHES, 3-WAY +44" A.F.F. TO CENTER
- SWITCH, 4-WAY +44" A.F.F. TO CENTER
- SWITCH, DIMMER +44" A.F.F. TO CENTER
- SWITCH, SPST, W/PILOT LIGHT +44" A.F.F. TO CENTER
- SWITCH, KEY-OPERATED +44" A.F.F. TO CENTER
- PHOTOCELL

- OCCUPANCY SENSOR CONTROL TYPE 1 WALL MOUNT - ON/OFF CONTROL ONLY (TYPICAL FOR RESTROOMS, EQUIPMENT ROOMS & AREAS THAT DO NOT REQUIRE DIMMING)
- OCCUPANCY SENSOR CONTROL-TYPE 1 WITH DIMMING WALL MOUNT (TYPICAL FOR AMENITY AREAS, CONFERENCE ROOMS, OFFICES & AREAS THAT REQUIRE DIMMING)
- OCCUPANCY SENSOR CONTROL-TYPE 2 WITH 360 DEGREE COVERAGE CEILING MOUNT - ON/OFF CONTROL ONLY

POWER SYMBOLS

- RECEPTACLE, DUPLEX +18" AFF
- RECEPTACLE, QUAD +18" AFF
- RECEPTACLE, MT'D ABOVE COUNTER OR HT. INDICATED
- RECEPTACLE, DUPLEX ON 'SWITCHED' CIRCUIT +18" AFF
- EMERGENCY DEVICES MT'D ABOVE COUNTER OR HT. INDICATED
- FURNITURE SYSTEM CONNECTION POKE THRU
- RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
- FLOORBOX WITH QUAD RECEPTACLE, REFER TO LOW VOLTAGE DRAWINGS FOR ADD'L REQUIREMENTS
- POWER POLE
- MAGNETIC MOTOR STARTER
- MANUAL MOTOR STARTER
- RELAY
- PUSHBUTTON STATION
- JUNCTION BOX
- THERMOSTAT, +44" AFF
- TRANSFORMER
- DISCONNECT, NON-FUSED
- DISCONNECT, FUSED
- MOTOR
- 277/480V ELECTRICAL PANEL
- 120/208V ELECTRICAL PANEL
- ELECTRICAL PANEL, RECESSED (FLUSH)
- ELECTRICAL PANEL, SURFACE
- MISCELLANEOUS PANEL, RECESSED
- MISCELLANEOUS PANEL, SURFACE

WIRING SYMBOLS

- PANEL DESIGNATION & CIRCUIT NUMBER
- DENOTES PART CIRCUIT (SHOWN IN MORE THAN ONE PLACE)
- HOMERUN BACK TO ELECTRICAL PANEL
- CONDUCTOR SIZE (IF OTHER THAN #12)
- PHASE CONDUCTOR
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- CONCEALED CONDUIT
- CONDUIT UNDERGROUND
- CONDUIT, STUBBED & CAPPED
- LIGHTING CIRCUIT - NORMAL POWER
- LIGHTING CIRCUIT - EMERGENCY POWER

NOTATIONS

- DRAWING NOTE
- DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
- MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
- REVISION DELTA
- FEEDER NO. (SEE FEEDER SCHEDULE)

ONE LINE DIAGRAM SYMBOLS

- CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
- MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
- FUSE (RATING & CLASS AS INDICATED ON PLAN)
- GENERATOR (RATING AS INDICATED ON PLAN)
- TRANSFORMER (RATING AS INDICATED ON PLAN)
- TRANSFER SWITCH (MANUAL OR AUTOMATIC)
- FUSE (RATING & CLASS AS INDICATED ON PLAN)
- GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
- WATER PIPE GROUND ELECTRODE
- UTILITY METER & METER BASE
- UTILITY METER CURRENT TRANSFORMER

(SCALE AS INDICATED ON PLANS)

(SCALE AS INDICATED ON PLANS)

(SCALE AS INDICATED ON PLANS)

GENERAL CONSTRUCTION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY REVIEWING THE PLANS AND SPECIFICATION DOCUMENTS PRIOR TO THE START OF ANY WORK.

ALL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED AS IS STANDARD BUILDING PRACTICE.

ALL ELECTRICAL PLANS ARE DIAGRAMMATICAL AND THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES AND FIXTURES.

FIRE RATED INSTALLATION NOTE:

ELECTRICAL ITEMS (LIGHT FIXTURES, BOXES, ETC.) WHICH ARE RECESSED INTO FIRE-RATED CEILINGS OR WALLS, SHALL BE 'ALCOVED' IN GYPSUM BOARD ENCLOSURES PER ARCHITECTURAL DETAILS, OR THE DEVICES SHALL BE 'UL' LISTED WITH FIRE-RATING EQUAL TO OR GREATER THAN THE FIRE-RATING OF THE ADJACENT CONSTRUCTION.

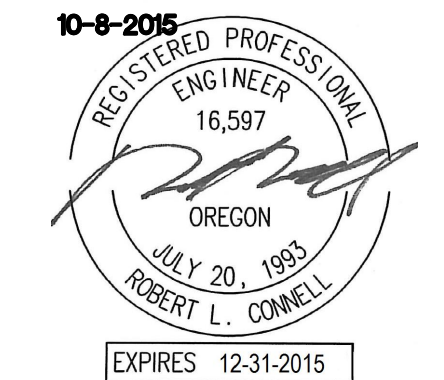
1. SYMBOLS & ABBREVIATIONS MAY OR MAY NOT APPLY TO PROJECT
2. REFER TO LOW VOLTAGE DRAWINGS FOR ASSOCIATED SYMBOLS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GND	GROUND	SPD	SURGE PROTECTIVE DEVICE (TVSS)
AFG	ABOVE FINISH GRADE	HID	HIGH INTENSITY DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
'ATS'	AUTOMATIC TRANSFER SWITCH	HP	HORSEPOWER	UG	UNDERGROUND
BOF	BOTTOM OF FIXTURE	JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
C (C/W)	CONDUIT (CONDUIT & WIRE)	MCB	MAIN CIRCUIT BREAKER	VFD	VARIABLE FREQUENCY DRIVE
CATV	CABLE TELEVISION	MLO	MAIN LUGS ONLY	W	WIRE
CB	CIRCUIT BREAKER	'MTS'	MANUAL TRANSFER SWITCH	WG	WIRE GUARD
CCT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WP	WEATHERPROOF
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	NEC	NATIONAL ELECTRICAL CODE	XFMR	TRANSFORMER
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT	XP	EXPLOSION PROOF
DBL	DOUBLE (AS IN DOUBLE SWITCHED)	NL	NIGHT LIGHT		
(E)	EXISTING	OL	OVERLOAD		
EG	EQUIPMENT GROUND	OF/OI	OWNER FURNISHED / OWNER INSTALLED		
EPO	EMERGENCY POWER OFF	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED		
FA	FIRE ALARM	(PC)	PART CIRCUIT		
FACP	FIRE ALARM CONTROL PANEL	RGSC	RIGID STEEL CONDUIT		
GFI	GROUND FAULT INTERRUPTER	SEC	SECONDARY		

REVISIONS

02.05.16	PLAN REVIEW
07.14.17	COORDINATION
06.22.18	COORDINATION



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2014-75
DATE: 10-08-2015

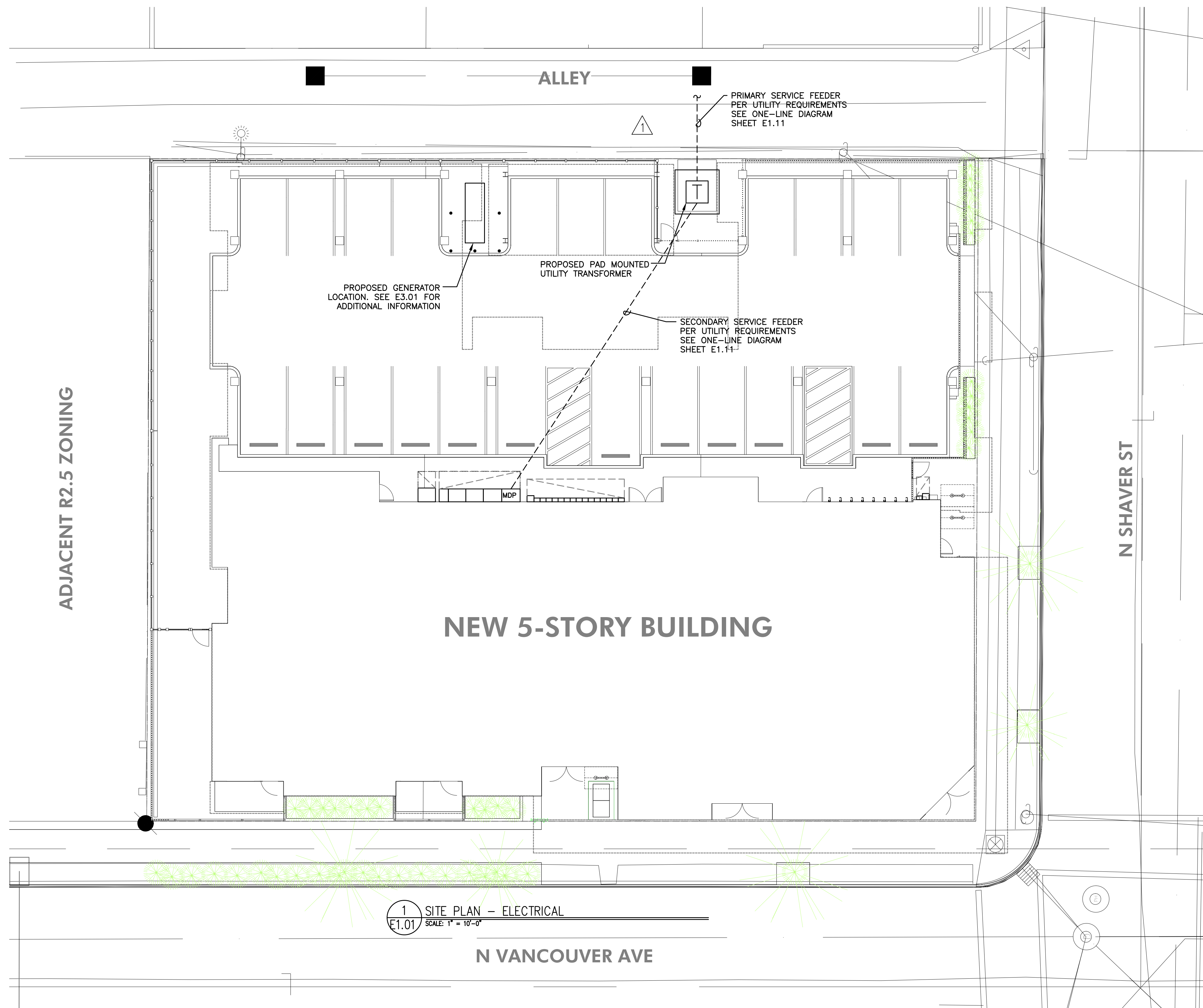
REVISIONS

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E1.01

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 UTILITY PLANS FOR EXACT LOCATION OF TRANSFORMER AND VAULT.
- C. U.G. PRIMARY FEEDER SHALL HAVE MINIMUM 48" BURY
- D. U.G. SECONDARY FEEDER SHALL HAVE MINIMUM 36" BURY.
- E. REFER TO ONE LINE DIAGRAM SHEET E1.11 FOR FEEDER SCHEDULE.
- F. SECONDARY CONDUIT SWEEPS SHALL BE MIN. 60" RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- G. LOCATION AND INSTALLATION OF PRIMARY AND SECONDARY CONDUITS, TRANSFORMER AND TRANSFORMER VAULT SHALL BE PROVIDED PER PGE RULES AND REQUIREMENTS.



1 SITE PLAN - ELECTRICAL
E1.01 SCALE: 1" = 10'-0"

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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS

04.18.17	COORDINATION
06.30.17	COORDINATION
07.14.17	COORDINATION
08.30.19	COORDINATION

VANCOUVER AVE PHASE II MIXED USE BUILDING
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E1.11

Shaver Street Apartments
LOAD SUMMARY - MAIN PANEL 'MDP' 4/10/2017

LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	MISC	LARGEST MOTOR
PANEL H1/H2	4,105	14,040	8,000	0	4,200	0	0	
PANEL M1/M2	0	1,620	28,336	0	0	20,872	0	19836
PANEL E1/E2	0	0	0	0	0	0	38,000	
MC1 (Tenant Meters)	0	0	0	0	0	0	505,000	
SUBTOTAL	4,105	15,660	36,336	0	4,200	20,872	543,000	19,836
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	5,131	12,830	36,336	0	4,200	20,872	543,000	4,959

CONN LOAD: 624 KVA

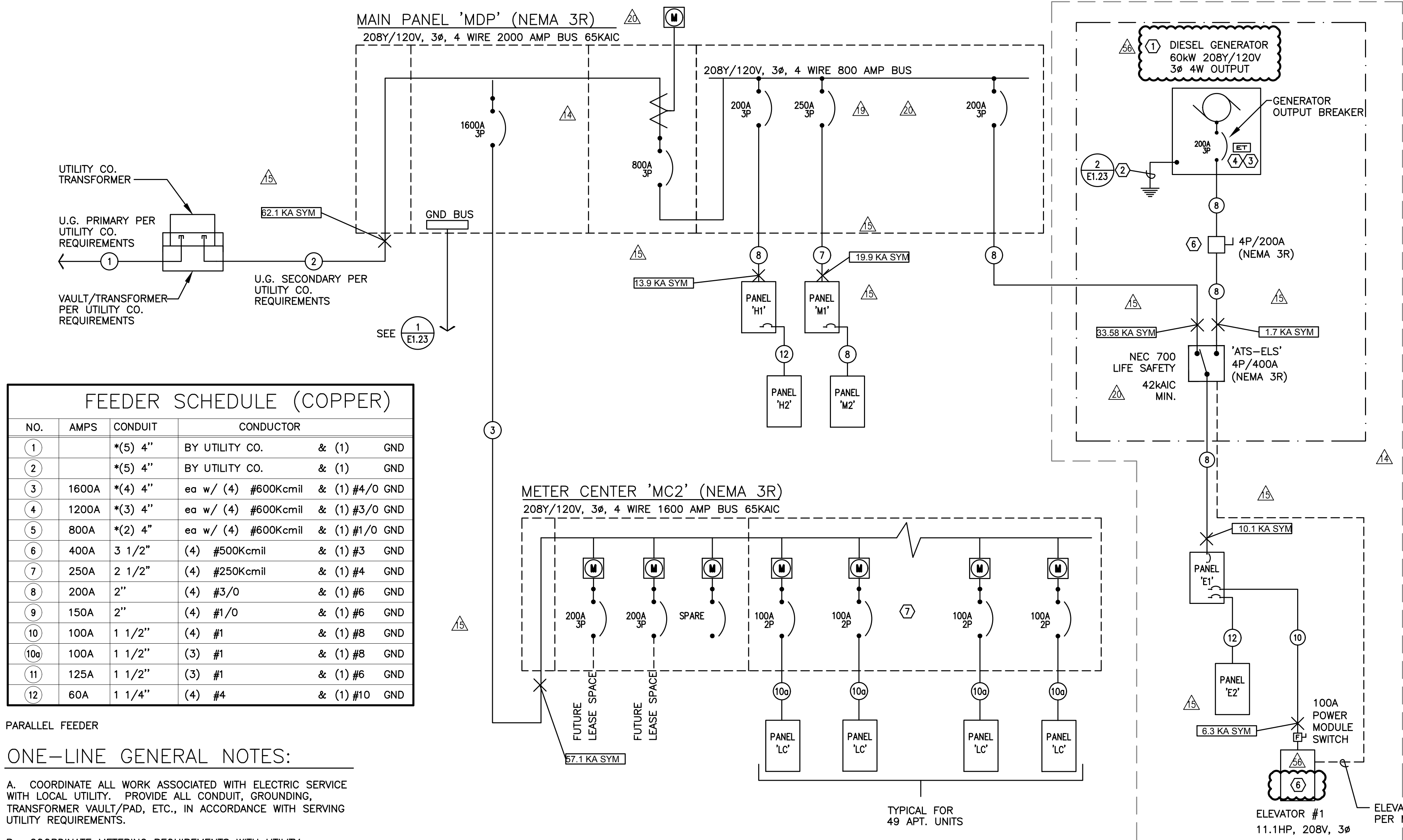
VOLTS: 208 3ph
TOTAL CALC: 627 KVA
CALC AMPS: 1741 AMPS

Shaver Street Apartments
'EDP' LOAD SUMMARY - EMERGENCY GENERATOR LOAD 8/6/2019

LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	ELEVATOR	LARGEST MOTOR
Panel E1/E2	6,511	360	0	0	10,120	7,596	0	
Elevator # 1							17,388	17,388
SUBTOTAL	6,511	360	0	0	10,120	7,596	17,388	17,388
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	8,139	360	0	0	10,120	7,596	17,388	4,347

CONN LOAD: 42 KVA

VOLTS: 208 3ph
TOTAL CALC: 48 KVA
CALC AMPS: 133 AMPS



FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*(5) 4"	BY UTILITY CO. & (1) GND
2		*(5) 4"	BY UTILITY CO. & (1) GND
3	1600A	*(4) 4"	ea w/ (4) #600Kcmil & (1) #4/0 GND
4	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
5	800A	*(2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 GND
6	400A	3 1/2"	(4) #500Kcmil & (1) #3 GND
7	250A	2 1/2"	(4) #250Kcmil & (1) #4 GND
8	200A	2"	(4) #3/0 & (1) #6 GND
9	150A	2"	(4) #1/0 & (1) #6 GND
10	100A	1 1/2"	(4) #1 & (1) #8 GND
10a	100A	1 1/2"	(3) #1 & (1) #8 GND
11	125A	1 1/2"	(3) #1 & (1) #6 GND
12	60A	1 1/4"	(4) #4 & (1) #10 GND

- * PARALLEL FEEDER
- ONE-LINE GENERAL NOTES:**
- COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
 - COORDINATE METERING REQUIREMENTS WITH UTILITY.
 - FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
 - 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.

- ONE-LINE NOTES:**
- GENERATOR SIZED BASED ON CONNECTED LIFE SAFETY PANEL LOADS AND (1) ELEVATOR WITH A MOTOR STARTING RATE OF 53 AMPS. PER THE GENERATOR PROVIDER, THE AUTOMATIC TRANSFER SWITCH SHALL FUNCTION IN TWO STEPS TO REDUCE STARTING INRUSH. CONSULT GENERATOR VENDOR FOR ADDITIONAL INFORMATION.
 - PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
 - PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.
 - COORDINATE INSTALLATION OF OUTPUT BREAKER WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
 - 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
 - ELEVATOR TO BE PROVIDED WITH 30 SECOND DELAYED START WHEN TRANSFERRED TO THE EMERGENCY POWER SYSTEM IN THE EVENT OF NORMAL POWER FAILURE. CONSULT MANUFACTURER'S REPRESENTATIVE FOR ADDITIONAL INFORMATION.
 - ALL TWO BEDROOM APARTMENTS UNITS TO BE PROVIDED WITH A 125A LOAD CENTER, TYPICAL.

1 ELECTRICAL ONE-LINE DIAGRAM
E1.11 208/120v, 3ph, 4w



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PROJECT # 2014-75
DATE: 10-08-2015

- REVISIONS
- △ 02.05.16 PLAN REVIEW
 - △ 12.16.16 COORDINATION
 - △ 04.14.17 COORDINATION
 - △ 05.17.19 COORDINATION

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

Shaver Street Apartments LOAD SUMMARY - EMERGENCY GENERATOR LOAD								7/19/2019
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	ELEVATOR	LARGEST MOTOR
Panel E1/E2	6,511	360	0	0	10,120	7,596	0	
Elevator # 1							17,388	17,388
SUBTOTAL	6,511	360	0	0	10,120	7,596	17,388	17,388
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	8,139	360	0	0	10,120	7,596	17,388	4,347

CONN LOAD: 42 KVA

VOLTS: 208 3ph
TOTAL CALC: 48 KVA
CALC AMPS: 133 AMPS

The Shaver Street Apartments RESIDENTIAL LOAD SUMMARY															4/10/2017			
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)
	1	2	3	4	5													
Type A (ADA) - 1 Bed/1 Bath	1					1	655	1965	3000	1500	8000	1000	744	5400	0	864	0	4500
Type B - 2 Bed/1 Bath	1					1	832	2496	3000	1500	8000	1000	744	5400	0	864	0	5200
Type C - 2 Bed/2 Bath		2	2	1		5	898	2694	3000	1500	8000	1000	744	5400	0	864	0	5200
Type D - 1 Bed/1 Bath		2	2	2	2	8	660	1980	3000	1500	8000	1000	744	5400	0	864	0	4500
Type E - Studio		4	4	1		9	531	1593	3000	1500	8000	1000	744	5400	0	864	0	3500
Type F - 1 Bed/1 Bath		4	4	1		9	661	1983	3000	1500	8000	1000	744	5400	0	864	0	4500
Type G - 2 Bed/2 Bath		1	1			2	1011	3033	3000	1500	8000	1000	744	5400	0	864	0	5200
Type H - 2 Bed/2 Bath		1	1			2	883	2649	3000	1500	8000	1000	744	5400	0	864	0	5500
Type I - 1 Bed/1 Bath		1	1			2	546	1638	3000	1500	8000	1000	744	5400	0	864	0	4500
Type J - 2 Bed/2 Bath				1	1	2	915	2745	3000	1500	8000	1000	744	5400	0	864	0	5200
Type K - 2 Bed/2 Bath				1	1	2	1071	3213	3000	1500	8000	1000	744	5400	0	864	0	5200
Type L - 2 Bed/2 Bath				1	1	2	886	2658	3000	1500	8000	1000	744	5400	0	864	0	5200
Type M - 2 Bed/2 Bath				1	1	2	1012	3036	3000	1500	8000	1000	744	5400	0	864	0	5200
Type N - 1 Bed/1 Bath				1	1	2	533	1599	3000	1500	8000	1000	744	5400	0	864	0	4500
TOTALS:	2	15	15	10	7	49		107097	147000	73500	392000	49000	36456	264600	0	42336	0	224700

VOLTS: 208 3ph
TOTAL CONNECTED: 1337 KVA
DEMAND FACTOR: 0.26 Based on Total Number of Residential Units = 49 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 348 KVA
CALCULATED AMPS: 966 AMPS



MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	80.2W	120	1		1/2"	#12	#12	SEE PLANS
EF-2	EXHAUST FAN NO.2	57W	120	1		1/2"	#12	#12	SEE PLANS
EF-3	EXHAUST FAN NO.3	1/4 HP	120	1		1/2"	#12	#12	M1-1
EF-4	EXHAUST FAN NO.4	1/2 HP	120	1		1/2"	#12	#12	E2-7
EF-5	EXHAUST FAN NO.5	1/2 HP	120	1		1/2"	#12	#12	E2-9
EF-6	EXHAUST FAN NO.6	1/4 HP	120	1		1/2"	#12	#12	E2-11
EF-7	EXHAUST FAN NO.7	1/2 HP	120	1		1/2"	#12	#12	E2-13
EF-8	EXHAUST FAN NO.8	80.2W	120	1		1/2"	#12	#12	SEE PLANS
EF-9	EXHAUST FAN NO.9	1/4 HP	120	1		1/2"	#12	#12	E2-12
EF-10	EXHAUST FAN NO.10	1/4 HP	120	1		1/2"	#12	#12	E2-14
EH-1	ELECTRIC WALL HEATER #1	1.5 KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2a	ELECTRIC WALL HEATER NO.2a	1.5 KW	120	1		1/2"	#12	#12	M1-2
EH-2b	ELECTRIC WALL HEATER NO.2a	1.5 KW	120	1		1/2"	#12	#12	M1-3
EH-3a	ELECTRIC WALL HEATER NO.3a	4.0 KW	208	1		1/2"	#12	#12	H1-25,27
EH-3b	ELECTRIC WALL HEATER NO.3b	4.0 KW	208	1		1/2"	#12	#12	H1-26,28
EH-4	ELECTRIC WALL HEATER NO.4	500W	120	1		1/2"	#12	#12	M1-4
EH-5a	ELECTRIC WALL HEATER NO.5a	2.5KW	208	1		1/2"	#12	#12	M1-5,7
EH-5b	ELECTRIC WALL HEATER NO.5b	2.5KW	208	1		1/2"	#12	#12	M1-6,8
IAC-1	SPLIT SYSTEM UNIT NO.1		208	1	13.0 MCA	1/2"	#12	#12	M1-23,25 (PC)
OAC-1	SPLIT SYSTEM UNIT NO.1					1/2"	#12	#12	M1-23,25 (PC)
IHP-1	MINI SPLIT HEAT PUMP NO.1		208	1	17.0 MCA	1/2"	#12	#12	SEE UNIT PLANS
OHP-1	MINI SPLIT HEAT PUMP NO.1					1"	#4	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT HEAT PUMP NO.2A/B		208	1	17.0 MCA	1/2"	#12	#12	SEE UNIT PLANS
OHP-2	MINI SPLIT HEAT PUMP NO.2					1/2"	#12	#12	SEE UNIT PLANS
IHP-3	MINI SPLIT HEAT PUMP NO.3		208	1	17.0 MCA	1/2"	#12	#12	SEE UNIT PLANS
OHP-3	MINI SPLIT HEAT PUMP NO.3					1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1		208	3	55.1 MCA	1"	#4	#10	M1-15,17,19
HP-1	HEAT PUMP NO.1		208	3	14.1 MCA	1/2"	#12	#12	M2-2,4,6
RTU-1	AIR HANDLING UNIT NO.1		208	3	36.0 MCA	3/4"	#6	#10	M2-1,3,5
P-1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	H1-35,37,39
PTHP-1	THRU-WALL HEAT PUMP NO.1	3.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
PTHP-2	THRU-WALL HEAT PUMP NO.2	3.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-20
RP-1	RECIRC. PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-31
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-29(PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-29 (PC)

GENERAL EQUIPMENT NOTES:

- A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

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SHEET:

E1.12



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2014-75 DATE: 10-08-2015

REVISIONS

Table with 2 columns: Revision Number and Description. Includes entries like 09.21.18 COORDINATION, 10.26.18 COORDINATION, 11.30.18 COORDINATION, 05.17.19 COORDINATION.

VANCOUVER AVE PHASE II MIXED USE BUILDING

NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

MEDIA Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0877 www.MEDIA-ENG.COM CONTACT: DENISE TAYLOR

MEDIA PANEL SCHEDULE table for panel E1, 1st floor, connected load amps 106. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel E1, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel M1, 1st floor, connected load amps 217. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel M1, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel H1, 1st floor, connected load amps 140. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel H1, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel E2, 3rd floor, connected load amps 36. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel E2, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel M2, 3rd floor, connected load amps 61. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel M2, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel H2, 3rd floor, connected load amps 27. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel H2, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.

MEDIA PANEL SCHEDULE table for panel E1, 1st floor, connected load amps 109. Includes load center name, voltage, phase, and service details.

MEDIA CIRCUIT DIRECTORY table for panel E1, listing load center name, location, and service details.

- NOTES: 1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. PROVIDE 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) PROVIDE GFCI RATED BREAKER.



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PROJECT # 2014-75 DATE: 10-08-2015

REVISIONS table with 2 entries: 02.05.16 PLAN REVIEW, 12.16.16 COORDINATION

VANCOUVER AVE PHASE II MIXED USE BUILDING NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET: E1.14

MFI Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0877 WWW.MFI-ENG.COM CONTACT: DENISE TAYLOR

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: E 1Bed/1Bath Area: 531 square feet. Includes load breakdown and total load of 12,957 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: D 1Bed/1Bath Area: 660 square feet. Includes load breakdown and total load of 13,762 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: C 2Bed/2Bath Area: 989 square feet. Includes load breakdown and total load of 15,457 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: B 2Bed/1Bath Area: 832 square feet. Includes load breakdown and total load of 14,619 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: A-ADA 1BED/1BATH Area: 655 square feet. Includes load breakdown and total load of 13,756 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: J 2Bed/2Bath Area: 915 square feet. Includes load breakdown and total load of 15,368 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: I 1Bed/1Bath Area: 546 square feet. Includes load breakdown and total load of 13,625 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: H 2Bed/2Bath Area: 883 square feet. Includes load breakdown and total load of 15,330 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: G 2Bed/2Bath Area: 1,011 square feet. Includes load breakdown and total load of 15,483 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: F 1Bed/1Bath Area: 661 square feet. Includes load breakdown and total load of 13,763 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: N 1Bed/1Bath Area: 533 square feet. Includes load breakdown and total load of 13,610 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: M 2Bed/2Bath Area: 1,012 square feet. Includes load breakdown and total load of 15,485 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: L 2Bed/2Bath Area: 886 square feet. Includes load breakdown and total load of 15,333 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: K 2Bed/2Bath Area: 1,071 square feet. Includes load breakdown and total load of 15,555 VA.

DWELLING UNIT LOAD CALCULATION Project: Shaver Street Apartments Unit Type: L 2Bed/2Bath Area: 886 square feet. Includes load breakdown and total load of 15,333 VA.



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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS

07.14.17	COORDINATION
02.02.18	COORDINATION
03.30.18	COORDINATION
07.20.18	COORDINATION

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'A'	(2) F25T8 54 W	TEXAS FLUORESCENTS	C SERIES	TYPE :4" GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :NA VOLTAGE :120V BALLAST :ELECTRONIC	RETAIL SPACE
'A1' 'A1E'	LED 3500K 2000 LM/80CRI 24W	LITHONIA (OR APPROVED EQUAL)	ZL2N SERIES	TYPE :4" GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM
'A2'	LED 3500K 1800 LM/80CRI 24W	LITHONIA (OR APPROVED EQUAL)	XMMLED SERIES	TYPE :4" ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	ELEVATOR PIT
'B1' ②	LED 3500K 2152 LM 18.7W	LITHONIA (OR APPROVED EQUAL)	WL4 20LP835 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	STAIRWELLS, EQUIP RMS
LF01 ⑤	LED 3500K 775LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3321 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED (TRIMLESS) HOUSING :STEEL LENS/REFL :ACRYLIC (90° REFLECTOR) VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING RESTROOMS, CORRIDORS, LOBBY
LF03 ⑤	LED 3500K 300LM 5W	JUNO LIGHTING (OR APPROVED EQUAL)	MG1162RD03LM35K SERIES	TYPE :3" DIA. ADJ. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :GIMBLE VOLTAGE :MVOLT BALLAST :LED DRIVER	NARROW FLOOD DISTRIBUTION. FINISH PER ARCHITECT FIXTURE SHALL BE IC RATED WHERE REQUIRED. FIELD AIMED LOBBY, CORRIDORS
LF05 ⑤	LED 3500K 625LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3021 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :DEEP REGRESS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING CORRIDORS, LOBBY
LF06 ⑥	LED 2700K 845LM/80CRI 11W	ZANEEN LIGHTING (OR APPROVED EQUAL)	BO-LA D9-2209 SERIES	TYPE :DIRECTIONAL SPOT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT FIELD AIM PER DECORATOR CORRIDORS, LOBBY
LF07 ③ ⑥	LED 2700K 845LM/80CRI 11W	ZANEEN LIGHTING (OR APPROVED EQUAL)	BO-LA D9-6040 SERIES	TYPE :ADJ. TRACK HEAD MOUNTING :TRACK HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT FIELD AIM PER DECORATOR CORRIDORS, LOBBY
LF08 ③	LED 3500K 340LM/FT 2W/FT	VOLT LIGHTING GROUP CORE LIGHTING GROUP (OR APPROVED EQUAL)	MX35K-24V SERIES APL-90 CHANNEL	TYPE :LED TAPE LIGHT MOUNTING :SELF-ADHESIVE HOUSING :ALUMINUM CHANNEL LENS/REFL :CLEAR LENS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	CORRIDORS, LOBBY
LF12 ③	LED 3500K 555LM/FT 4W/FT	CORE LIGHTING (OR APPROVED EQUAL)	CSL-320 L1 SERIES	TYPE :LINEAR DIRECT/INDIRECT MOUNTING :SUSPENDED (CABLE HUNG) HOUSING :ALUMINUM LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT BIKE STORAGE
LF13 ① ③	LED 3500K 340LM/FT 2W/FT	VOLT LIGHTING GROUP CORE LIGHTING GROUP (OR APPROVED EQUAL)	MX35K-24V SERIES APL-90 CHANNEL	TYPE :LED TAPE LIGHT MOUNTING :SELF-ADHESIVE HOUSING :ALUMINUM CHANNEL LENS/REFL :CLEAR LENS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	CONSULT ARCHITECT FOR EXACT INSTALLATION LOCATIONS CORRIDORS, LOBBY
LF15 ③	LED 3500K 350LM/FT 4.5W/FT	PRUDENTIAL LIGHTING (OR APPROVED EQUAL)	BIO2 LED35L0MWGD1G SERIES	TYPE :LINEAR WALL GRAZER MOUNTING :SURFACE (WALL) HOUSING :ALUMINUM LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT ROOF TERRACE RESTRM
LF19 ③	LED 3500K 775LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3321 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :TRIMLESS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING TERRACE RESTROOM

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'X1' 'X2'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APPROVED EQUAL)	LE EL N SERIES DLED500EM-G	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	TYPE 'X2' SIMILAR TO 'X1' EXCEPT WITH DUAL FACE AND/OR DIRCTIONAL ARROWS
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED EQUAL)	WLTE EL SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'SA'	LED 3000K 1488LM 31W	BEGA (OR APPROVED EQUAL)	6057LED SERIES	TYPE :7.5" DIA. CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :PARTIALLY FROSTED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR, CANOPY
'SA1'	LED 3000K 750LM 12W	CORE LIGHTING (OR APPROVED EQUAL)	RLD-420C SERIES	TYPE :4" SQ. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :PLASTIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION COVERED TERRACE
'SB'	LED 4000K 4245 LUMENS 56 W	LSI LIGHTING (OR APPROVED EQUAL)	CROSSOVER (XPG3) SERIES	TYPE :GARAGE LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	PARKING GARAGE
'SD'	LED 2000K 2739 LUMEN 50 W	BEGA LIGHTING LSI INDUSTRIES (OR APPROVED EQUAL)	2260L SERIES SWS SERIES	TYPE :WALL SCNCE MOUNTING :SURFACE (+8"-0" AFF MIN) HOUSING :STEEL LENS/REFL :TEMEPERED MATT GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT 1ST FLOOR COURTYARD

GENERAL 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 3500 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.
- NOT USED.
- CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.

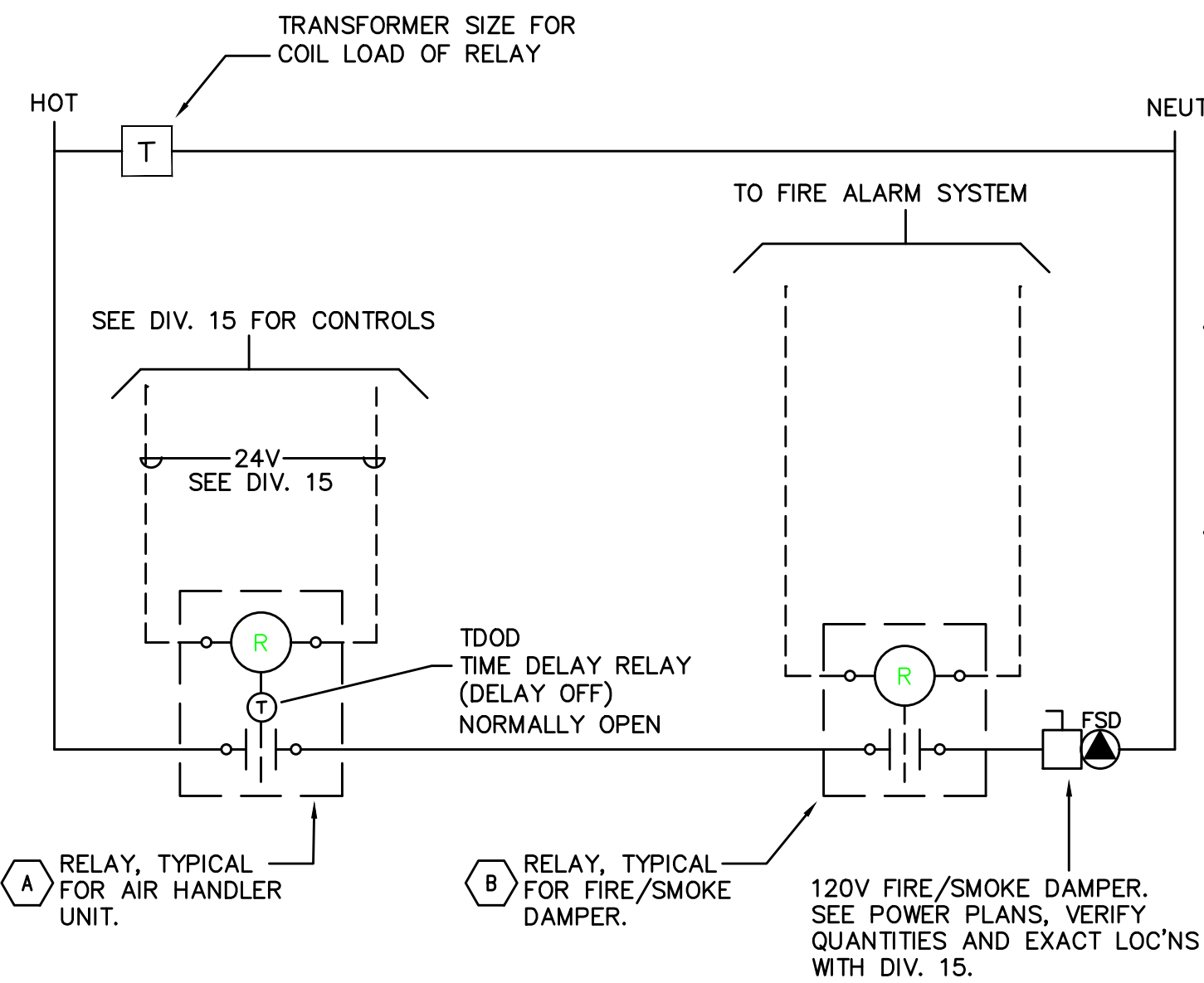
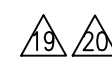
KEYED LIGHTING NOTES:

- 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.
FIXTURE TO BE FIELD AIMED SUCH THAT THE LIGHT OUTPUT IS DIRECTED TOWARD THE CENTER OF THE CORRIDOR.
FIXTURE(S) SHALL BE PROVIDED WITH DIMMING CAPABILITY.
- STAIRWELL AND CORRIDOR FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED OCCUPANCY SENSORS FOR LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE INSTALL PER INTERIOR DECORATOR'S DIRECTION.
- PROVIDE ALTERNATE PRICING FOR SIMILAR TYPE FIXTURE WITH LED LAMPING. FIXTURE SHALL BE 3500K, 2400 LUMEN (MINIMUM) AND 100 WATTS (MAX.).
- IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.
- CONSULT PRODUCT VENDOR AND PROVIDE WITH 3500K LAMPS IF AVAILABLE.

LIGHTING FIXTURE LIST – TYPICAL LIVING UNITS					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'UA' ② ③	LED 786 LUMEN 3500K (10W)	HALO (OR APPROVED OTHER)	SMD4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL, CLOSET, LIVING
'UB'	LED 750 LUMEN 3500K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT DINING, BEDROOM
'UC'	LED 1000 LUMEN 3000K 15W	DMF LIGHTING (OR APPROVED EQUAL)	DCC2-LARGE SERIES	TYPE :4.5" DIA. PENDANT MOUNTING :SURFACE (STEM HUNG) HOUSING :ALUMINUM LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY MOUNTING HEIGHT WITH INTERIOR DESIGNER. LOFT UNIT ONLY
'UD'	LED 3000K 3200 LUMENS 50W	LEDALITE (OR APPROVED EQUAL)	2AR5LCE SERIES	TYPE :4" LINEAR LED LIGHT MOUNTING :SUSPENDED (CABLE HUNG) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY MOUNTING HEIGHT WITH INTERIOR DESIGNER. LOFT UNIT ONLY
'UF' ④	LED 3000K (5W)	MAJESTIC MIRROR & FRAME (OR APPROVED EQUAL)	ARGYLE SMALL-V SERIES	TYPE :23.5"x37.5" BACK-LIT MIRROR MOUNTING :SURFACE HOUSING :PER MFR LENS/REFL :PER MFR VOLTAGE :120V BALLAST :LED DRIVER	MOUNTING HEIGHT AND FINISH PER ARCHITECT. VERIFY WIRING METHOD PRIOR TO ROUGH IN. UNIT BATHROOM
'UH' ①	N/A 500 W	KING (OR APPROVED EQUAL)	WHFC1210	TYPE :CEILING HEATER MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :NA VOLTAGE :120V BALLAST :NA	 UNIT BATHROOM

KEYED LIGHTING NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE BATHROOM HEATERS AND COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. EACH HEATER SHALL BE CONTROLLED VIA WALL MOUNTED THERMOSTAT, KING ELECTRICAL MODEL K101 OR APPROVED OTHER, MOUNTED PER ADA REACH REQUIREMENTS (48" AFF). REFER TO TYPICAL ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
- TYPE 'UA' FIXTURES LOCATED IN UNIT BATHROOMS SHALL BE 3000K COLOR TEMPERATURE. ALL OTHER 'UA' FIXTURES SHALL BE AS INDICATED.
- BACK-LIT MIRROR FIXTURE TYPE 'UF' IS A CUSTOM FIXTURE AND SIZE WILL VARY PER EACH UNIT BATHROOM INSTALLATION. CONTRACTOR SHALL CONSULT WITH ARCHITECTURAL INTERIOR ELEVATIONS FOR THE FIXTURE REQUIREMENTS IN EACH UNIT TYPE, INCLUDING MOUNTING HEIGHT AND LOCATION.

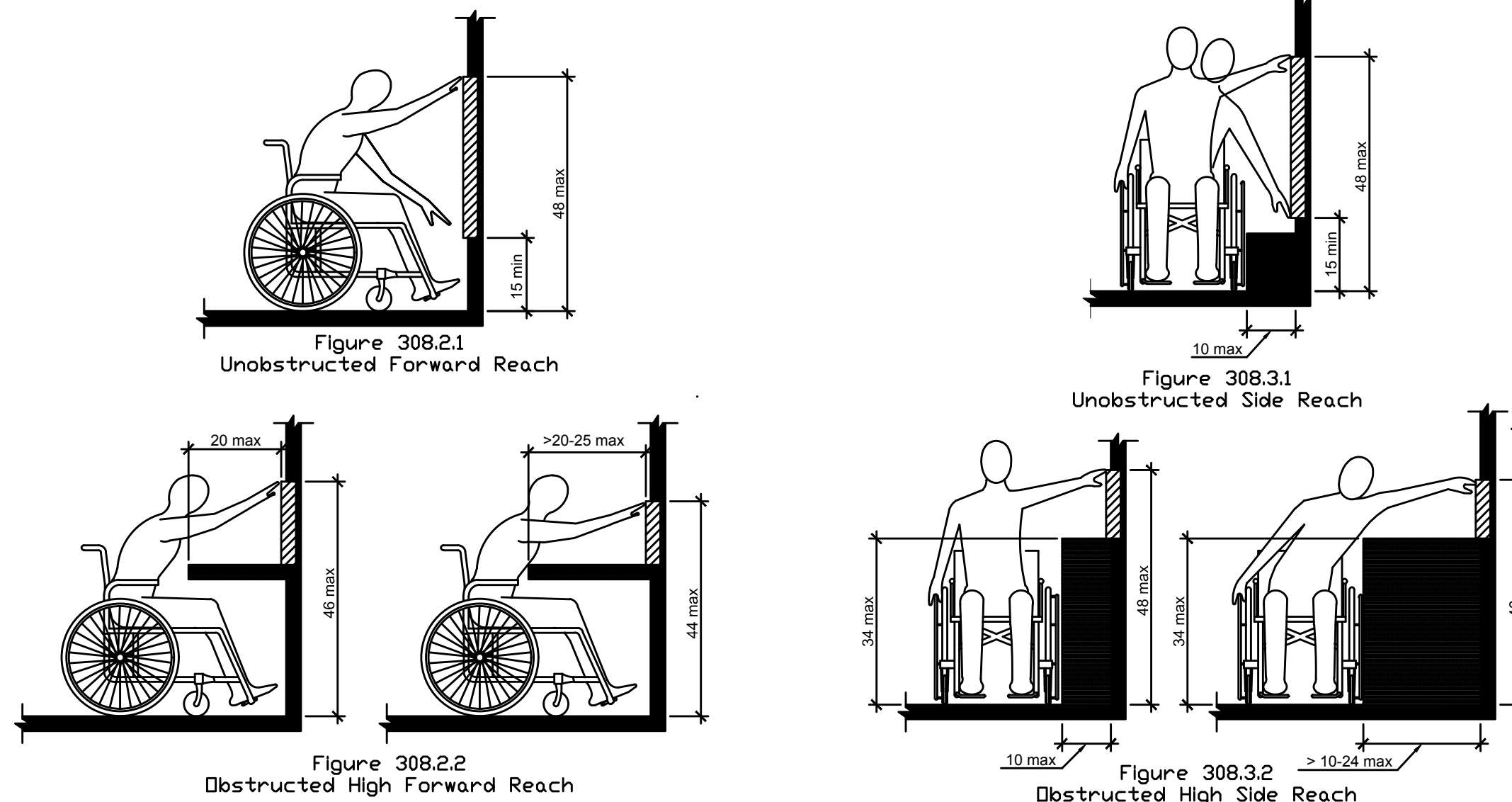


ADDRESSABLE DETECTOR CONTROL

- A RELAY TO BE 'NORMALLY OPEN'. TDOD (TIME DELAY ON DE-ENERGY) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); DAMPERS TO CLOSE ON DE-ENERGIZE AFTER 15 SEC. TIME-OUT. 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.

1 SMOKE/FIRE DAMPER CONTROL DIAGRAM

E1.22



2 ADA REACH REQUIREMENTS

E1.22 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 Forward 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 Side 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.



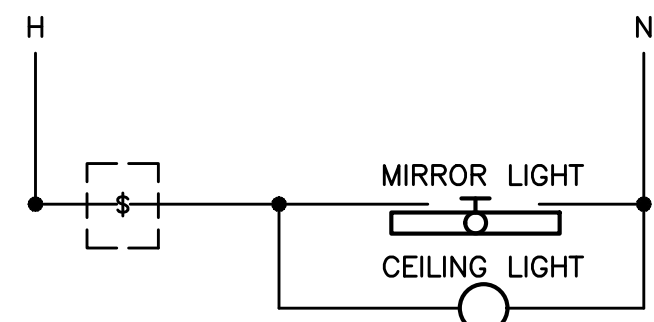
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PROJECT # 2014-75
DATE: 10-08-2015

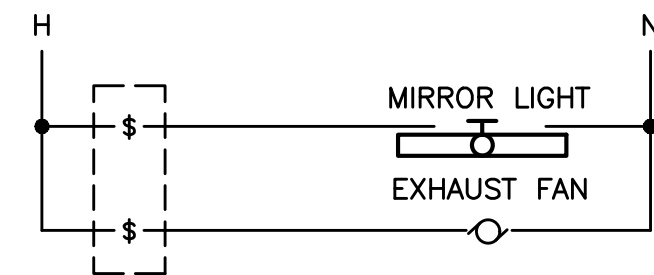
REVISIONS	
④	05.27.16 PLAN REVIEW
③	06.30.17 COORDINATION
②	07.14.17 COORDINATION

VANCOUVER AVE PHASE II
MIXED USE BUILDING
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

M
E
I
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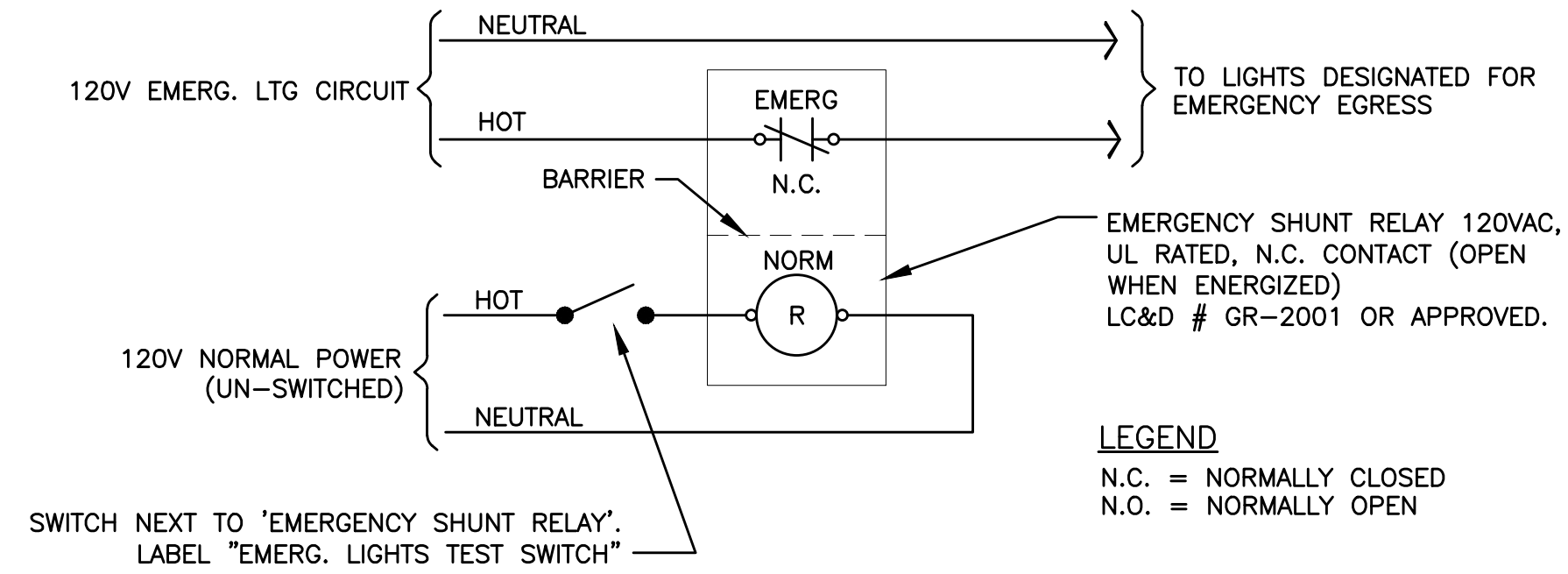


BATHROOM WITH CEILING LIGHT

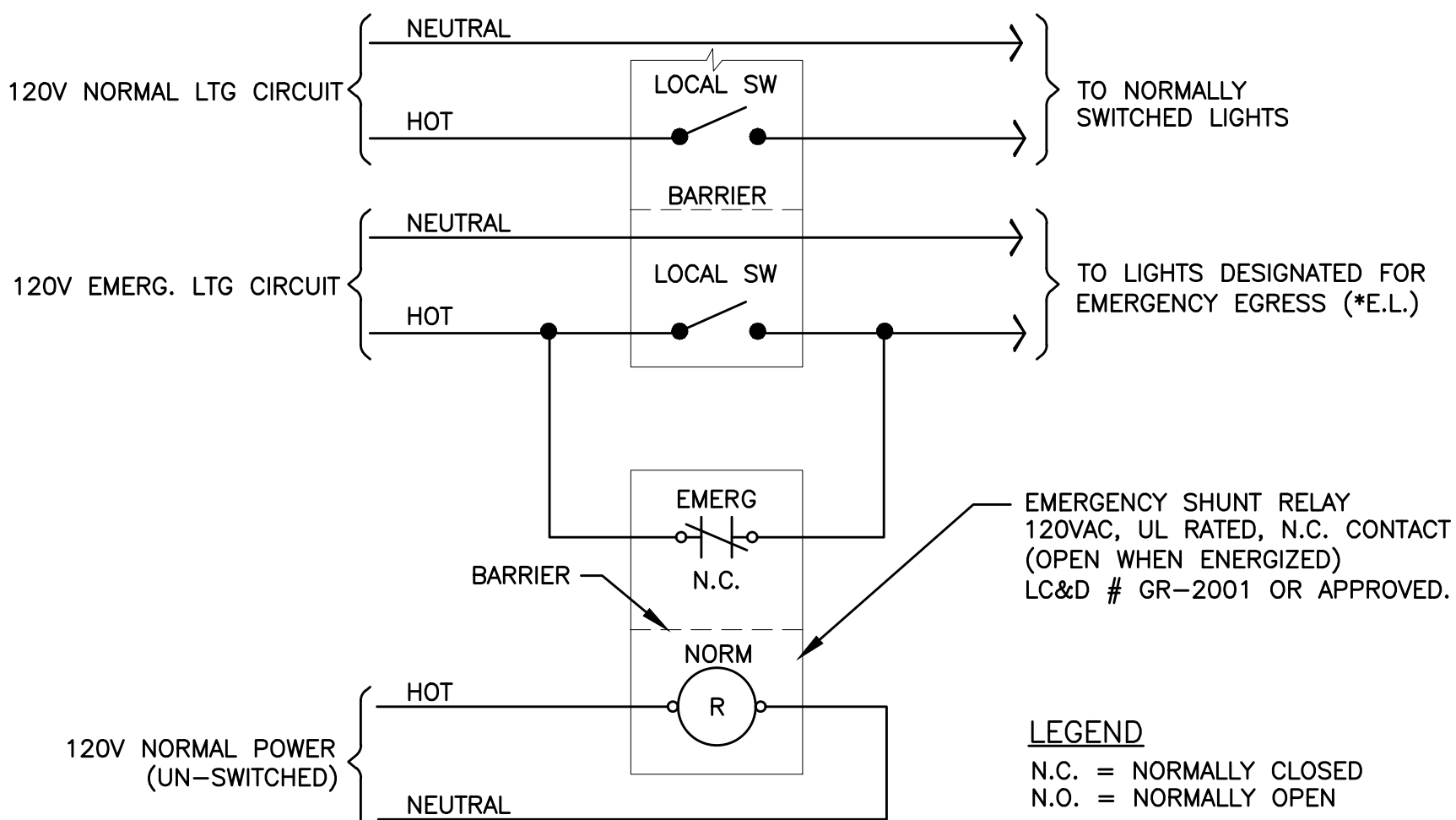


BATHROOM WITH EXHAUST FAN

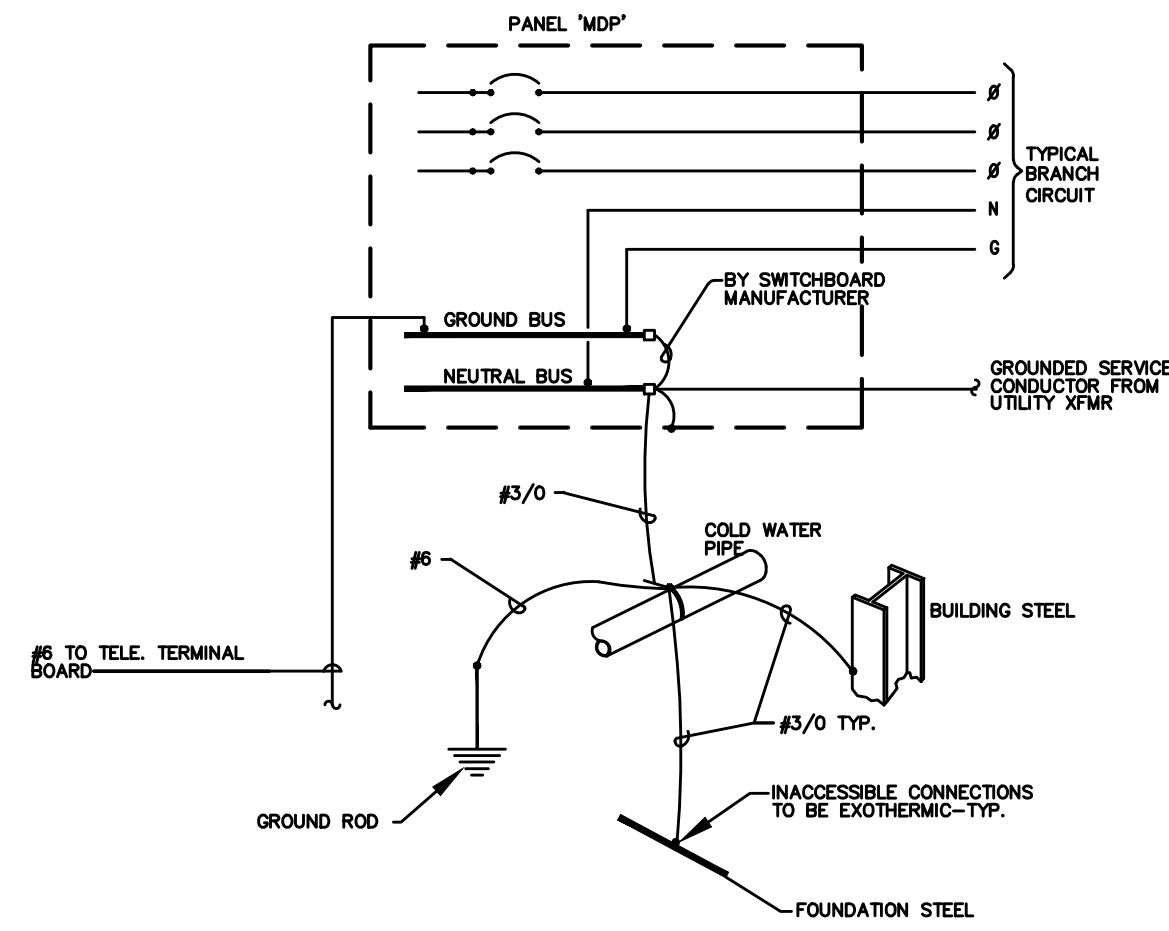
1 BATHROOM SWITCHING DIAGRAM - TYPICAL
E1.23 NO SCALE



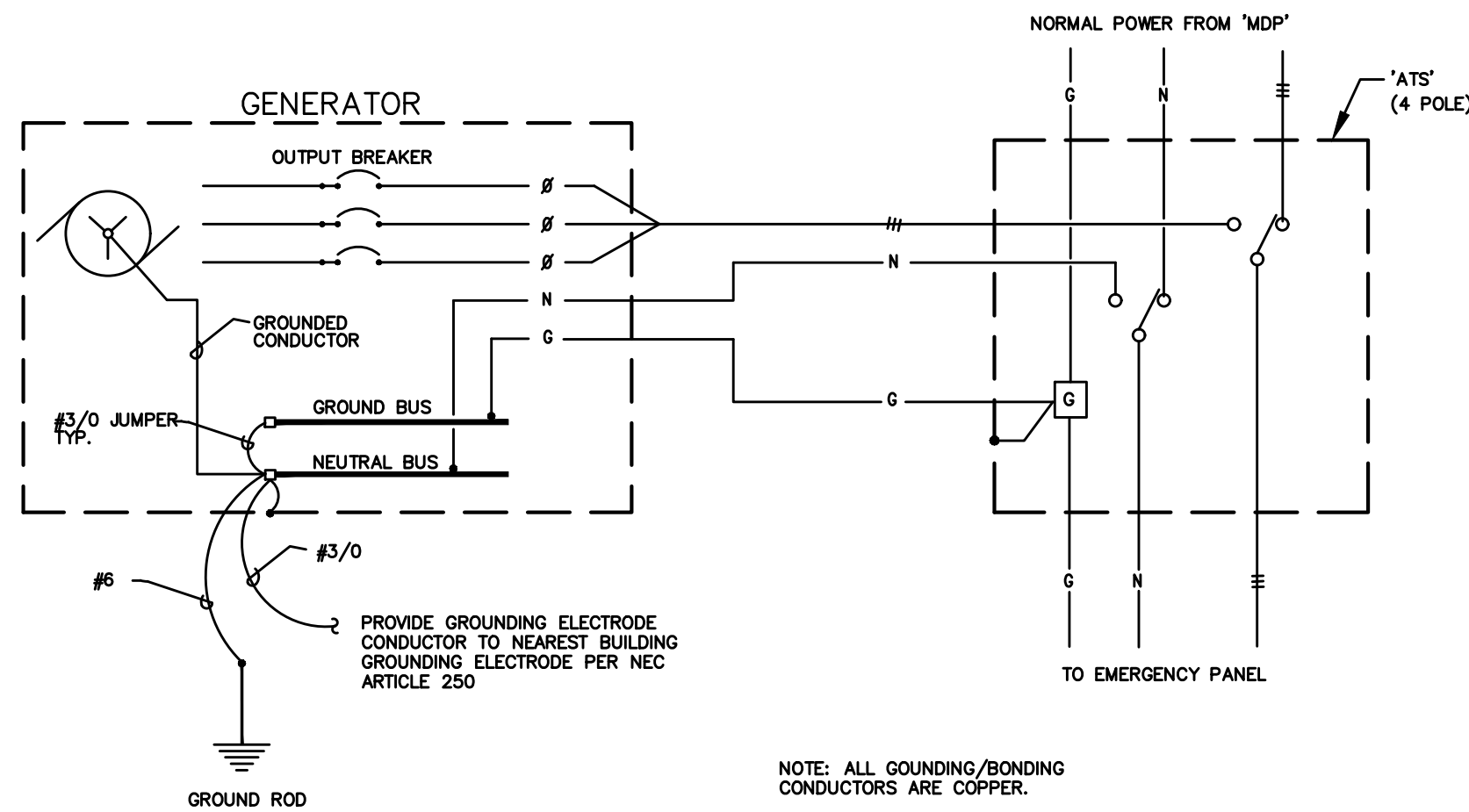
2 EMERGENCY EGRESS LIGHTING - UNSWITCHED
E1.23 NO SCALE



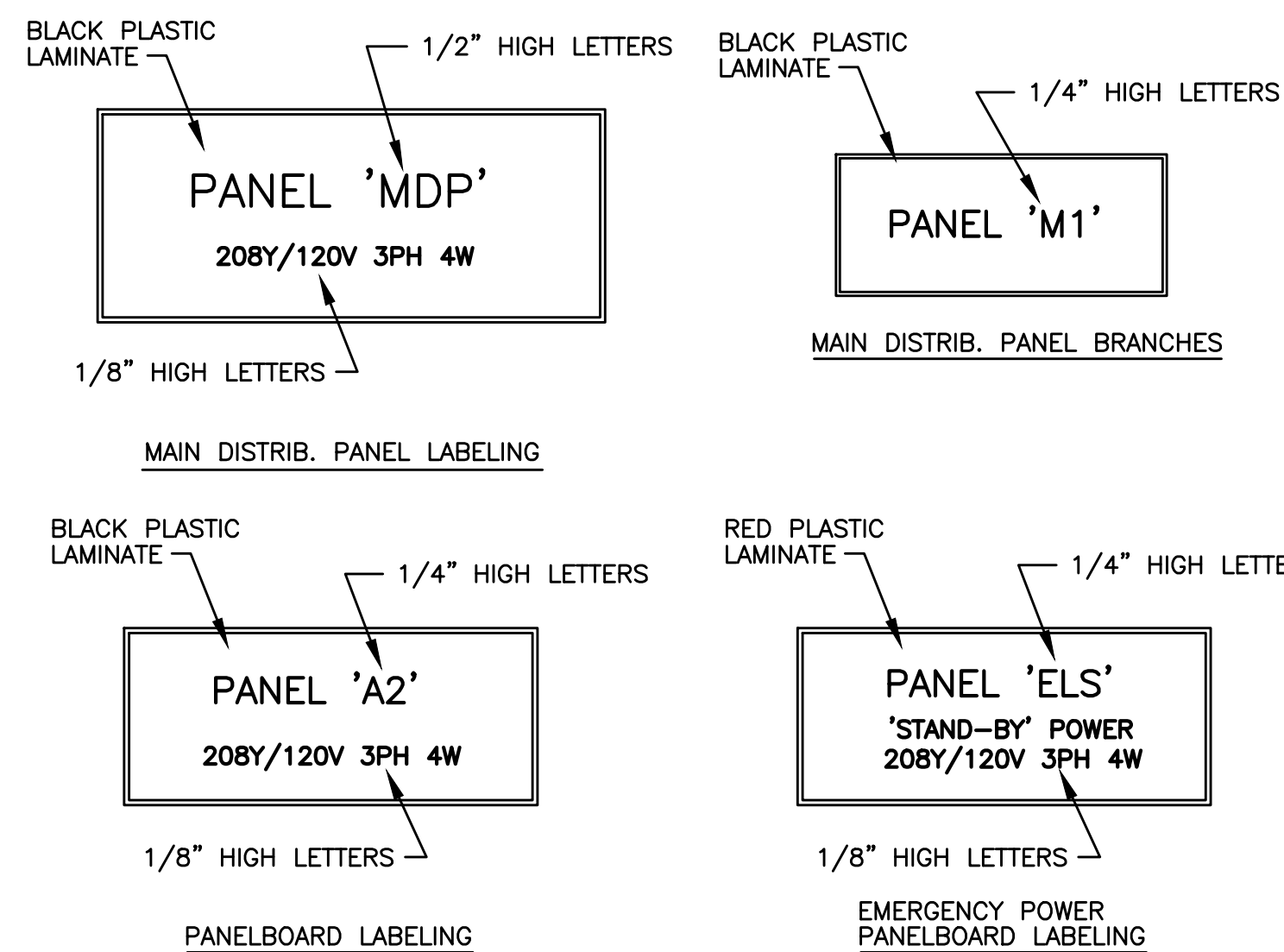
3 EMERGENCY EGRESS LIGHTING - SWITCHED
E1.23 NO SCALE



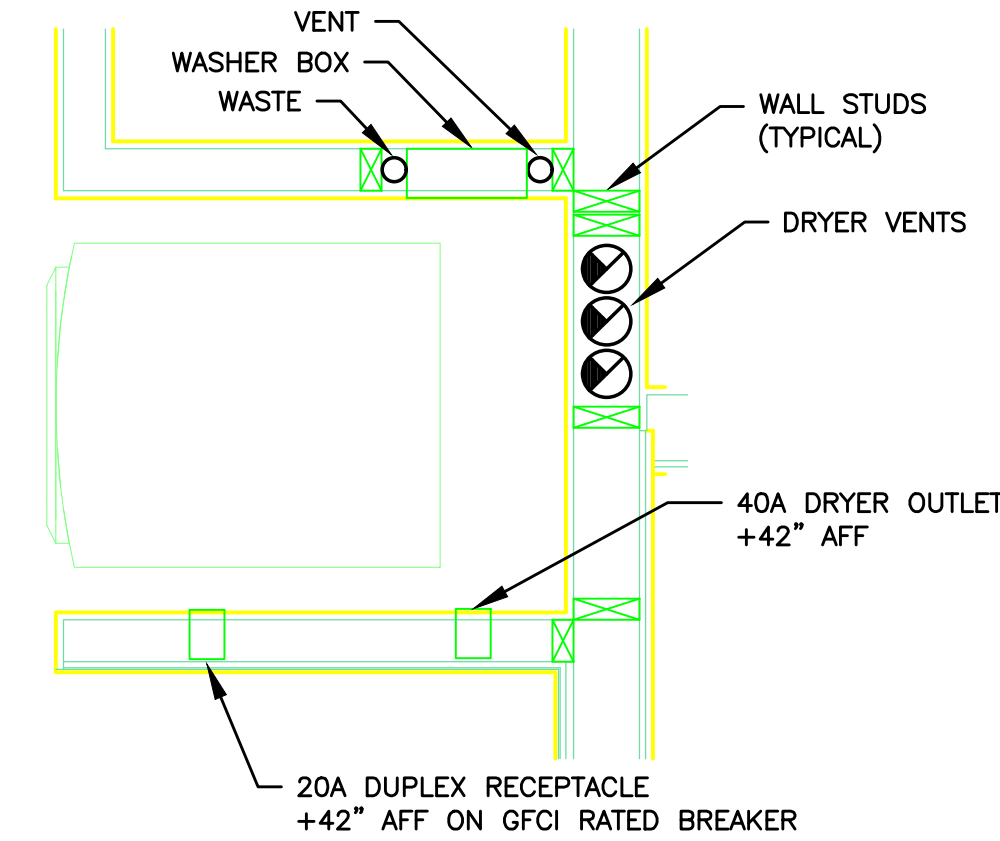
4 GROUNDING/BONDING DIAGRAM
E1.23 208Y/120V, 3Ø, 4 WIRE



5 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL
E1.23 NO SCALE

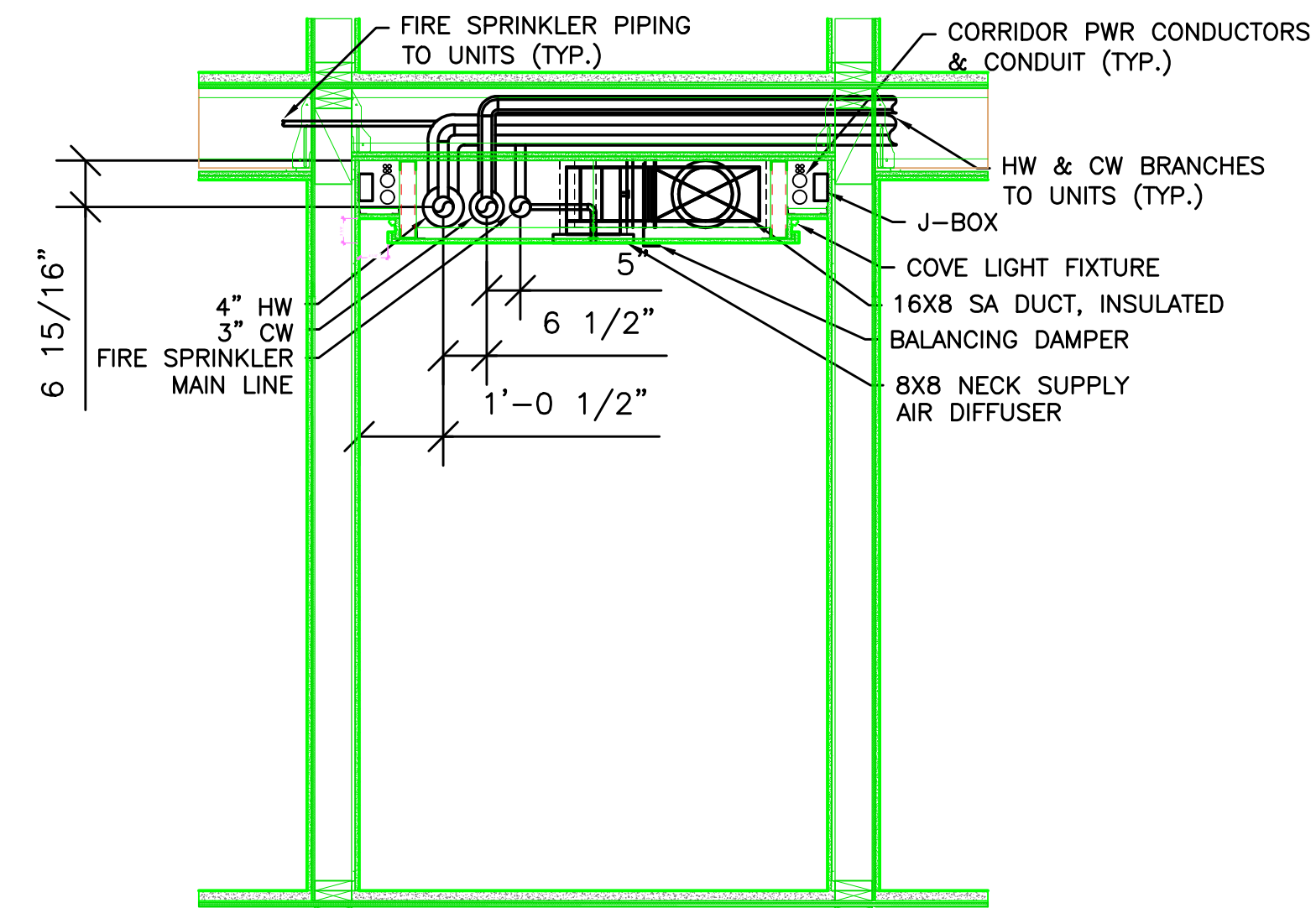


6 SWITCHBOARD/PANEL LABELING DETAIL
E1.23 NO SCALE



7 TYPICAL WASHER/DRYER ALCOVE
E1.23 NO SCALE

NOTE:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.
2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.



NOTES:
1. UNIT ELECTRICAL PANEL FEEDERS ARE NOT TO BE RUN IN CORRIDOR.
2. DIFFUSERS AND SPRINKLER HEADS TO BE CENTERED IN CORRIDOR CEILING.
3. HW AND CW SUPPLY PIPING LOCATED IN 2ND FLOOR CEILING.
4. HWR PIPING LOCATED IN 4TH FLOOR CEILING.
5. TELECOM CABLES TO BE LOCATED ABOVE RESIDENTIAL UNITS.
6. COORDINATE JOIST PENETRATIONS WITH STRUCTURAL.
7. FIRE SPRINKLER PIPING SHALL NOT OBSTRUCT HVAC DUCT ROUTING.

8 CORRIDOR SECTION
E1.23 NO SCALE



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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
05.27.16	PLAN REVIEW
06.30.17	COORDINATION

**VANCOUVER AVE PHASE II
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NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E1.23



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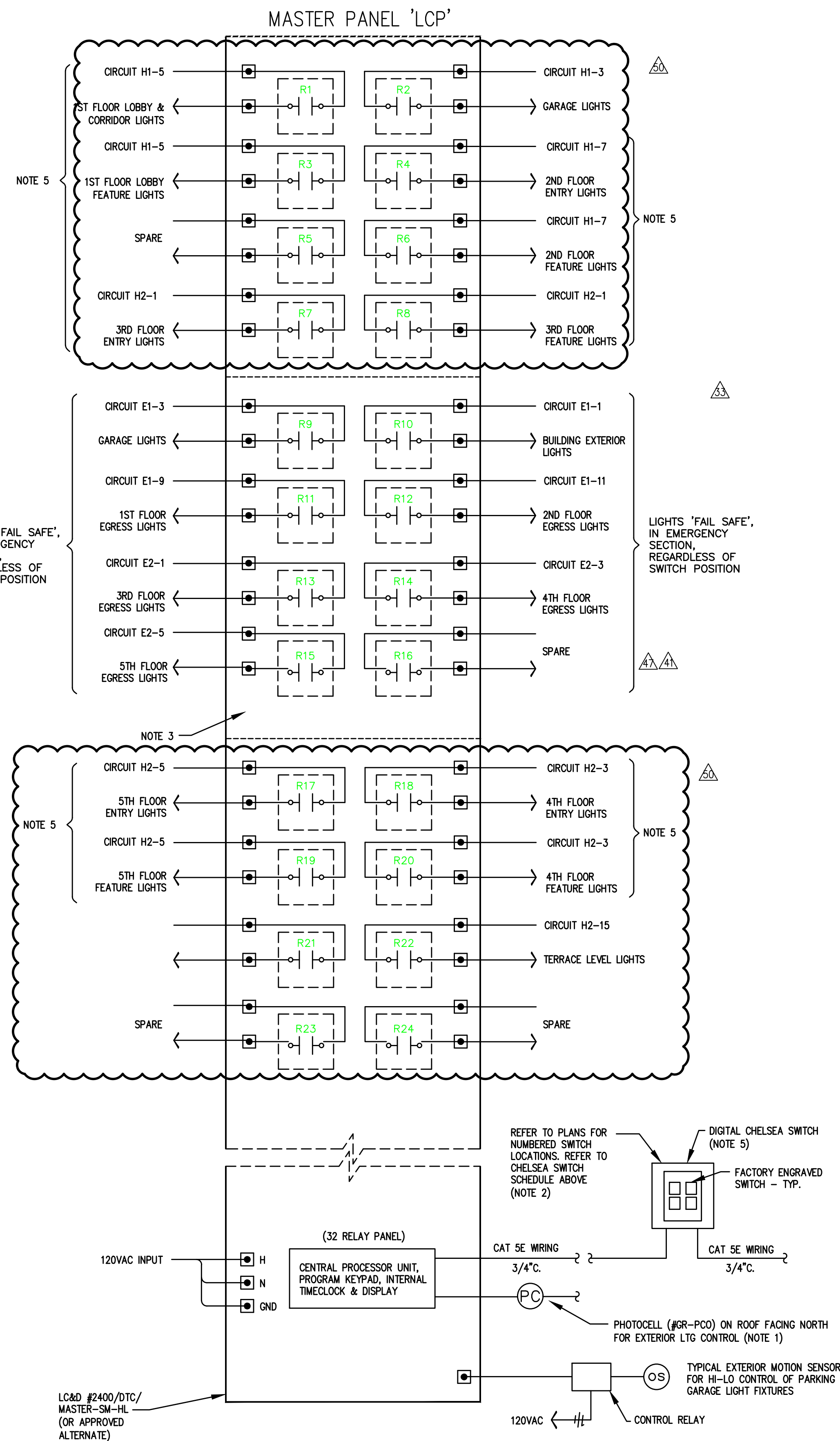
PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
10.26.18	COORDINATION
11.30.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E1.24

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- GENERAL NOTES:**
- A. DESIGN IS BASED ON 'LCD' COMPANY EQUIPMENT. THE LIGHTING CONTROL SYSTEM WILL BE INSTALLED COMPLETE WITH ALL FUNCTIONS MEETING THE DESIGN INTENT.
 - B. ADEQUATE TRAINING SHALL BE PROVIDED TO THE OWNER (& REPRESENTATIVES) TO FULLY UNDERSTAND LIGHTING CONTROL SYSTEM FUNCTIONS, PROGRAMMING, MAINTENANCE, RE-PROGRAMMING RELAYS, ETC.
 - C. REFER TO SHEET E1.25 FOR CHELSEA SWITCH INFORMATION.
 - D. CONTRACTOR SHALL CONSULT ACUTY'S PROJECT DESIGN FOR ADDITIONAL INFORMATION REGARDING ALL DEVICES AND EQUIPMENT LOCATION AND COORDINATE ALL WORK.

- 'LCP' - DETAIL NOTES:**
- 1. RELAYS R1, R2, R12, R17, R18 & R24 ARE PHOTOCELL/TIMECLOCK CONTROLLED. VERIFY WITH OWNER FOR TIMECLOCK SETTINGS. DESIGN INTENT IS FOR DUSK-TIL-DAWN OPERATION.
 - 2. RELAYS R3 - R11 ARE TIMECLOCK CONTROLLED AS WELL AS MANUALLY SWITCHED BY CHELSEA SWITCH. COORDINATE WITH OWNER FOR SET TIMES.
 - 3. UL924 BARRIERED SECTION FOR EMERGENCY CIRCUITS.
 - 4. RELAYS R19 - R23 INTENDED TO BE CONSTANT "ON".
 - 5. CHELSEA SWITCHES FOR CORRIDOR LIGHTS ON FLOORS 2, 3, 4 & 5 TO HAVE LOCKING COVER.

1 LIGHTING CONTROL SYSTEM DIAGRAM
E1.24 NO SCALE



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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS

10.26.18	COORDINATION
11.30.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE II
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SHEET:
E1.25

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CHELSEA SWITCH SCHEDULE – 1ST FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS1a	LOBBY	6	1	R1	ZONE 1 ON/OFF	ON/OFF	LOBBY, MAIL ROOM & CORRIDOR DOWNLIGHTS
			2	R1	ZONE 1 RAISE	RAISE	LOBBY, MAIL ROOM & CORRIDOR DOWNLIGHTS
			3	R1	ZONE 1 LOWER	LOWER	LOBBY, MAIL ROOM & CORRIDOR DOWNLIGHTS
			4	R3	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R3	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R3	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE – 2ND FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS2a	ELEVATOR LOBBY	6	1	R4	ZONE 1 ON/OFF	ON/OFF	ENTRY DOWNLIGHTS
			2	R4	ZONE 1 RAISE	RAISE	ENTRY DOWNLIGHTS
			3	R4	ZONE 1 LOWER	LOWER	ENTRY DOWNLIGHTS
			4	R6	ZONE 2 ON/OFF	ON/OFF	CORRIDOR FEATURE LIGHTS
			5	R6	ZONE 2 RAISE	RAISE	CORRIDOR FEATURE LIGHTS
			6	R6	ZONE 2 LOWER	LOWER	CORRIDOR FEATURE LIGHTS

CHELSEA SWITCH SCHEDULE – 3RD FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS3a	ELEVATOR LOBBY	6	1	R7	ZONE 1 ON/OFF	ON/OFF	ENTRY DOWNLIGHTS
			2	R7	ZONE 1 RAISE	RAISE	ENTRY DOWNLIGHTS
			3	R7	ZONE 1 LOWER	LOWER	ENTRY DOWNLIGHTS
			4	R8	ZONE 2 ON/OFF	ON/OFF	CORRIDOR FEATURE LIGHTS
			5	R8	ZONE 2 RAISE	RAISE	CORRIDOR FEATURE LIGHTS
			6	R8	ZONE 2 LOWER	LOWER	CORRIDOR FEATURE LIGHTS

CHELSEA SWITCH SCHEDULE – 4TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS4a	ELEVATOR LOBBY	6	1	R18	ZONE 1 ON/OFF	ON/OFF	ENTRY DOWNLIGHTS
			2	R18	ZONE 1 RAISE	RAISE	ENTRY DOWNLIGHTS
			3	R18	ZONE 1 LOWER	LOWER	ENTRY DOWNLIGHTS
			4	R20	ZONE 2 ON/OFF	ON/OFF	CORRIDOR FEATURE LIGHTS
			5	R20	ZONE 2 RAISE	RAISE	CORRIDOR FEATURE LIGHTS
			6	R20	ZONE 2 LOWER	LOWER	CORRIDOR FEATURE LIGHTS

CHELSEA SWITCH SCHEDULE – 5TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS5a	ELEVATOR LOBBY	6	1	R5	ZONE 1 ON/OFF	ON/OFF	ENTRY DOWNLIGHTS
			2	R5	ZONE 1 RAISE	RAISE	ENTRY DOWNLIGHTS
			3	R5	ZONE 1 LOWER	LOWER	ENTRY DOWNLIGHTS
			4	R5	ZONE 2 ON/OFF	ON/OFF	CORRIDOR FEATURE LIGHTS
			5	R5	ZONE 2 RAISE	RAISE	CORRIDOR FEATURE LIGHTS
			6	R5	ZONE 2 LOWER	LOWER	CORRIDOR FEATURE LIGHTS

CHELSEA SWITCH SCHEDULE – 1ST FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS1b	LOBBY	3	1	R11	EGRESS	ON/OFF	LOBBY EGRESS
			2	R11	EGRESS	RAISE	LOBBY EGRESS
			3	R11	EGRESS	LOWER	LOBBY EGRESS

CHELSEA SWITCH SCHEDULE – 2ND FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS2b	ELEVATOR LOBBY	3	1	R12	EGRESS	ON/OFF	CORRIDOR COVE LIGHTS (EP)
			2	R12	EGRESS	RAISE	CORRIDOR COVE LIGHTS (EP)
			3	R12	EGRESS	LOWER	CORRIDOR COVE LIGHTS (EP)

CHELSEA SWITCH SCHEDULE – 3RD FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS3b	ELEVATOR LOBBY	3	1	R13	EGRESS	ON/OFF	CORRIDOR COVE LIGHTS (EP)
			2	R13	EGRESS	RAISE	CORRIDOR COVE LIGHTS (EP)
			3	R13	EGRESS	LOWER	CORRIDOR COVE LIGHTS (EP)

CHELSEA SWITCH SCHEDULE – 4TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS4b	ELEVATOR LOBBY	3	1	R14	EGRESS	ON/OFF	CORRIDOR COVE LIGHTS (EP)
			2	R14	EGRESS	RAISE	CORRIDOR COVE LIGHTS (EP)
			3	R14	EGRESS	LOWER	CORRIDOR COVE LIGHTS (EP)

CHELSEA SWITCH SCHEDULE – 5TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS5b	ELEVATOR LOBBY	3	1	R15	EGRESS	ON/OFF	CORRIDOR COVE LIGHTS (EP)
			2	R15	EGRESS	RAISE	CORRIDOR COVE LIGHTS (EP)
			3	R15	EGRESS	LOWER	CORRIDOR COVE LIGHTS (EP)

CHELSEA SWITCH NOTES:

- A. REGARDLESS OF SETTING, EGRESS LIGHTING SHALL REMAIN "ON" AT ALL TIMES. MANUAL SWITCHING IS ONLY PROVIDED FOR MAINTENANCE PURPOSES.
- B. EGRESS LIGHTING SHALL MEET CODE MINIMUM REQUIREMENT OF (1) FOOTCANDLE AVERAGE, MEASURED AT THE FLOOR AT ALL TIMES. CONSULT VENDOR FOR PROCEDURE TO SET DIMMING LIMITS FOR THE RESIDENT FLOOR COVE LIGHTS.
- C. CONTRACTOR TO PROVIDE LOCKING COVERS AT ALL SWITCH LOCATIONS TO PREVENT TAMPERING ONCE LIGHT LEVELS ARE SET BY THE OWNER.



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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
10.26.18	COORDINATION
11.30.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE II
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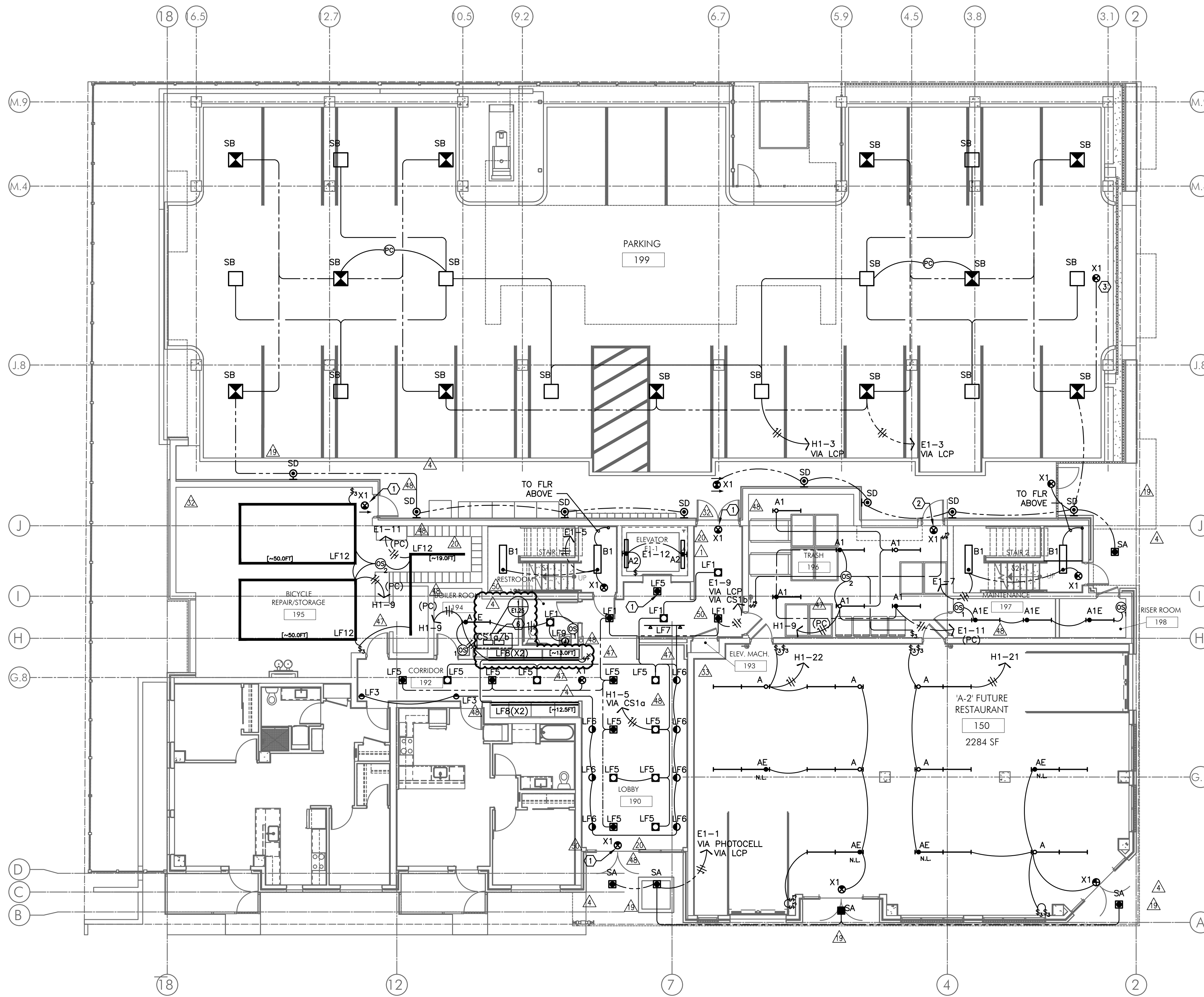
SHEET:
E2.01

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. NOT USED.
- E. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- F. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
- G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK.
- H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- I. PROVIDE LOCKING SWITCH COVER FOR DEVICES LOCATED IN PUBLIC AREAS.

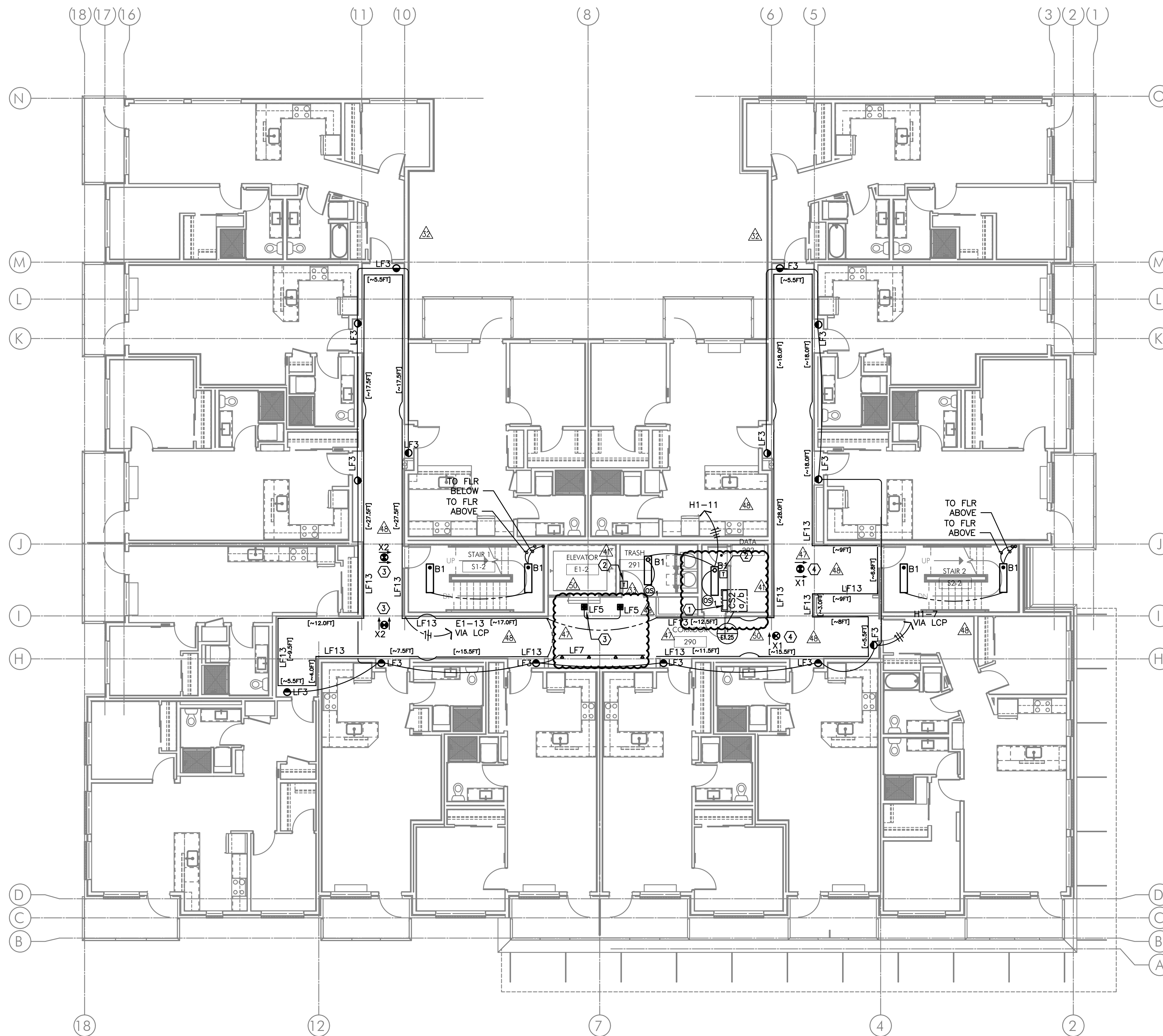
KEYED NOTES:

- 1. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 2. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.
- 3. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. CIRCUIT AHEAD OF ANY OTHER DEVICES AS NEEDED.



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

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1 SECOND FLOOR LIGHTING PLAN
 E2.02 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. NOT USED.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND INTERIORS DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- E. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
- F. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. POWER SUPPLIES SHALL BE INSTALLED IN THE TRASH ROOM AND DATA CLOSETS AT EACH FLOOR, WITH EACH LOCATION SERVING ONE HALF OF THE CORRIDOR COVE LIGHTS. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- 3. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 4. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.

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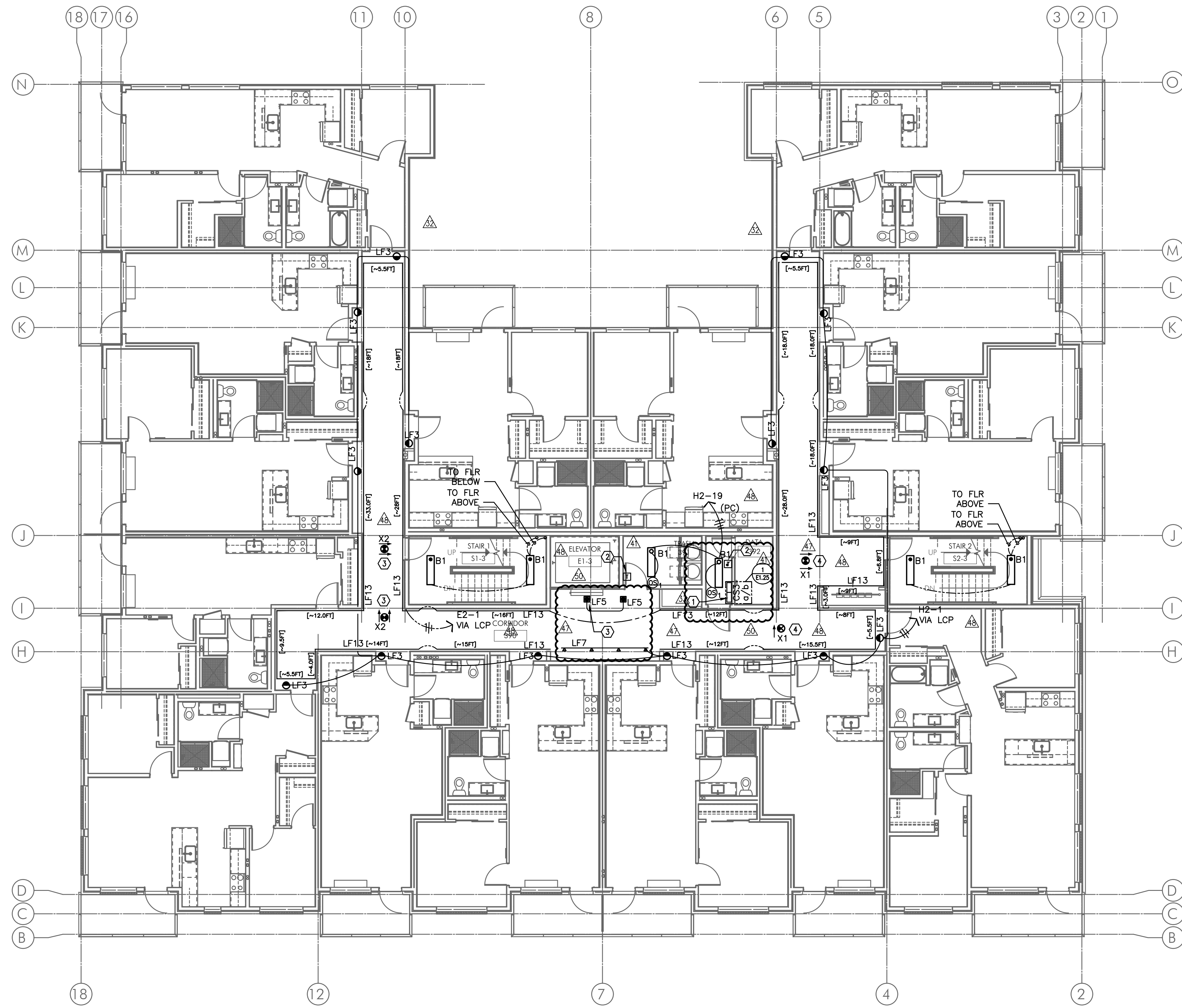
PROJECT # 2014-75
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REVISIONS	
10.26.18	COORDINATION
11.30.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE II
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SHEET:
E2.02



1 THIRD FLOOR LIGHTING PLAN
 E2.03 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. NOT USED.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND INTERIORS DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- E. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
- F. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. POWER SUPPLIES SHALL BE INSTALLED IN THE TRASH ROOM AND DATA CLOSETS AT EACH FLOOR, WITH EACH LOCATION SERVING ONE HALF OF THE CORRIDOR COVE LIGHTS. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- 3. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 4. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.



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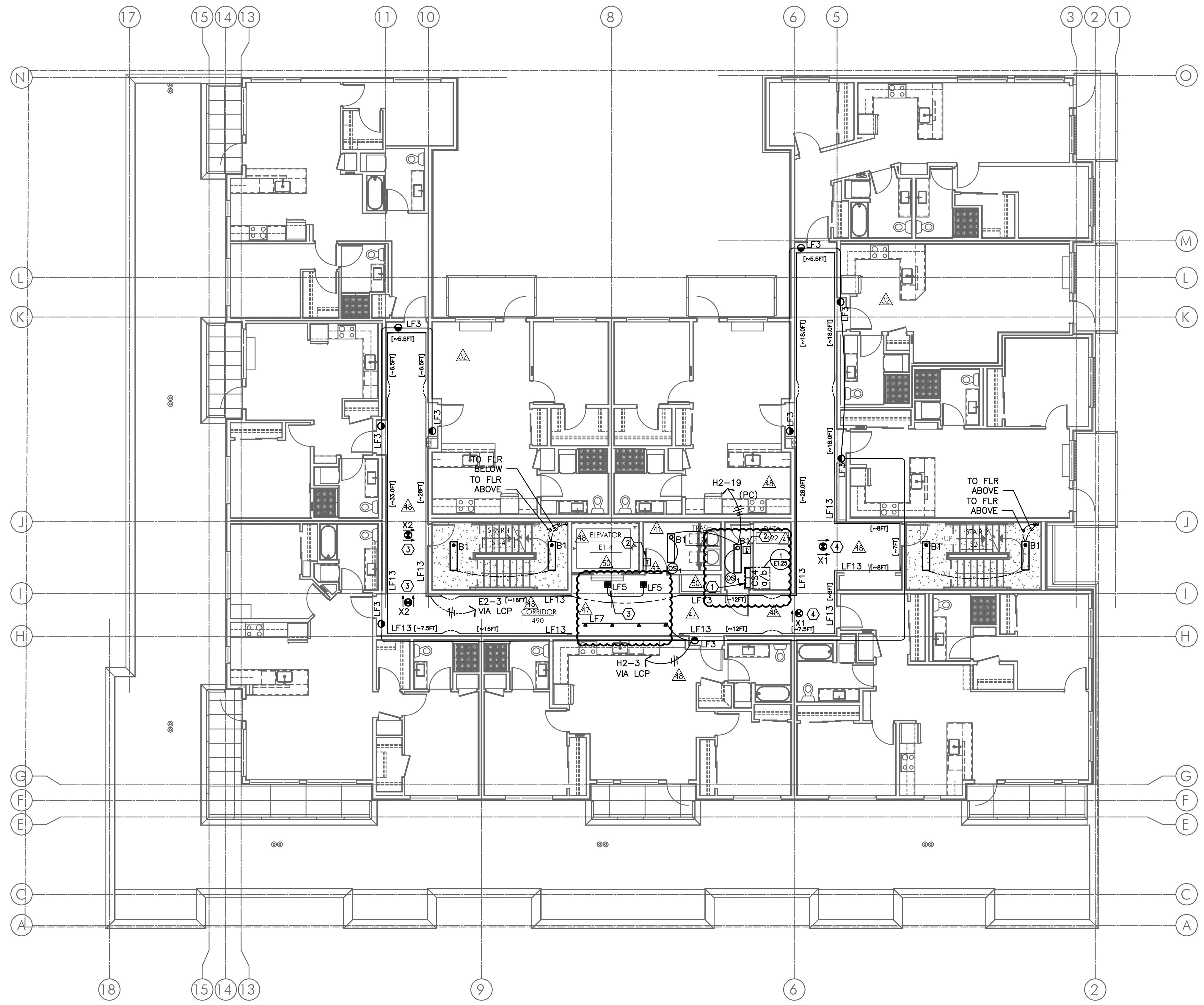
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SHEET:
E2.03



1 FOURTH FLOOR LIGHTING PLAN
 E2.04 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. NOT USED.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND INTERIORS DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- E. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
- F. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. POWER SUPPLIES SHALL BE INSTALLED IN THE TRASH ROOM AND DATA CLOSETS AT EACH FLOOR, WITH EACH LOCATION SERVING ONE HALF OF THE CORRIDOR COVE LIGHTS. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- 3. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 4. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2014-75
 DATE: 10-08-2015

REVISIONS	
10.26.18	COORDINATION
11.30.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE II
 MIXED USE BUILDING**
 NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E2.04

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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
△	10.26.18 COORDINATION
△	11.30.18 COORDINATION
△	01.25.19 COORDINATION

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
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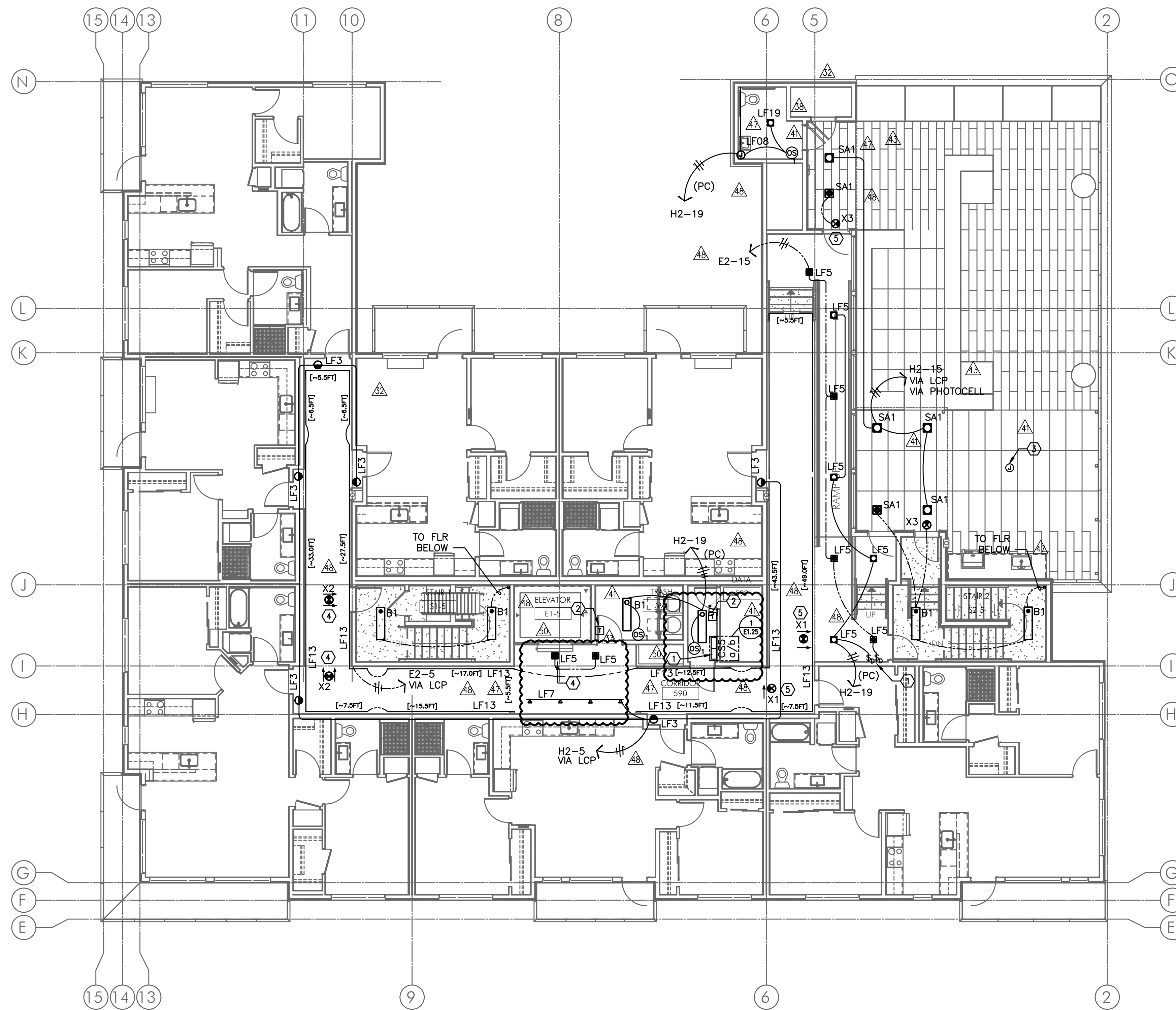
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E2.05

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. NOT USED.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND INTERIORS DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- E. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
- F. TERRACE LIGHT FIXTURES TO BE CIRCUITED VIA A ROOF MOUNTED PHOTOCELL FOR DUSK-TO-DAWN OPERATION.
- △ G. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. POWER SUPPLIES SHALL BE INSTALLED IN THE TRASH ROOM AND DATA CLOSETS AT EACH FLOOR, WITH EACH LOCATION SERVING ONE HALF OF THE CORRIDOR COVE LIGHTS. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- △ 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- 3. PROVIDE CEILING MOUNTED POWER CONNECTION TIED INTO THE TERRACE LIGHTING CIRCUIT FOR OWNER PROVIDED EXTERIOR PENDANT LIGHT FIXTURE. CONSULT ARCHITECT AND/OR INTERIOR DECORATOR FOR EXACT LOCATION, POWER REQUIREMENTS, MOUNTING HEIGHT AND LIGHTING CONTROL METHOD.
- △ 4. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 5. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.



1 FIFTH FLOOR LIGHTING PLAN
E2.05 SCALE: 1/8" = 1'-0"

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EXPIRES 12-31-2017

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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
03.30.18	COORDINATION
09.21.18	COORDINATION
10.26.18	COORDINATION
05.17.19	COORDINATION

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

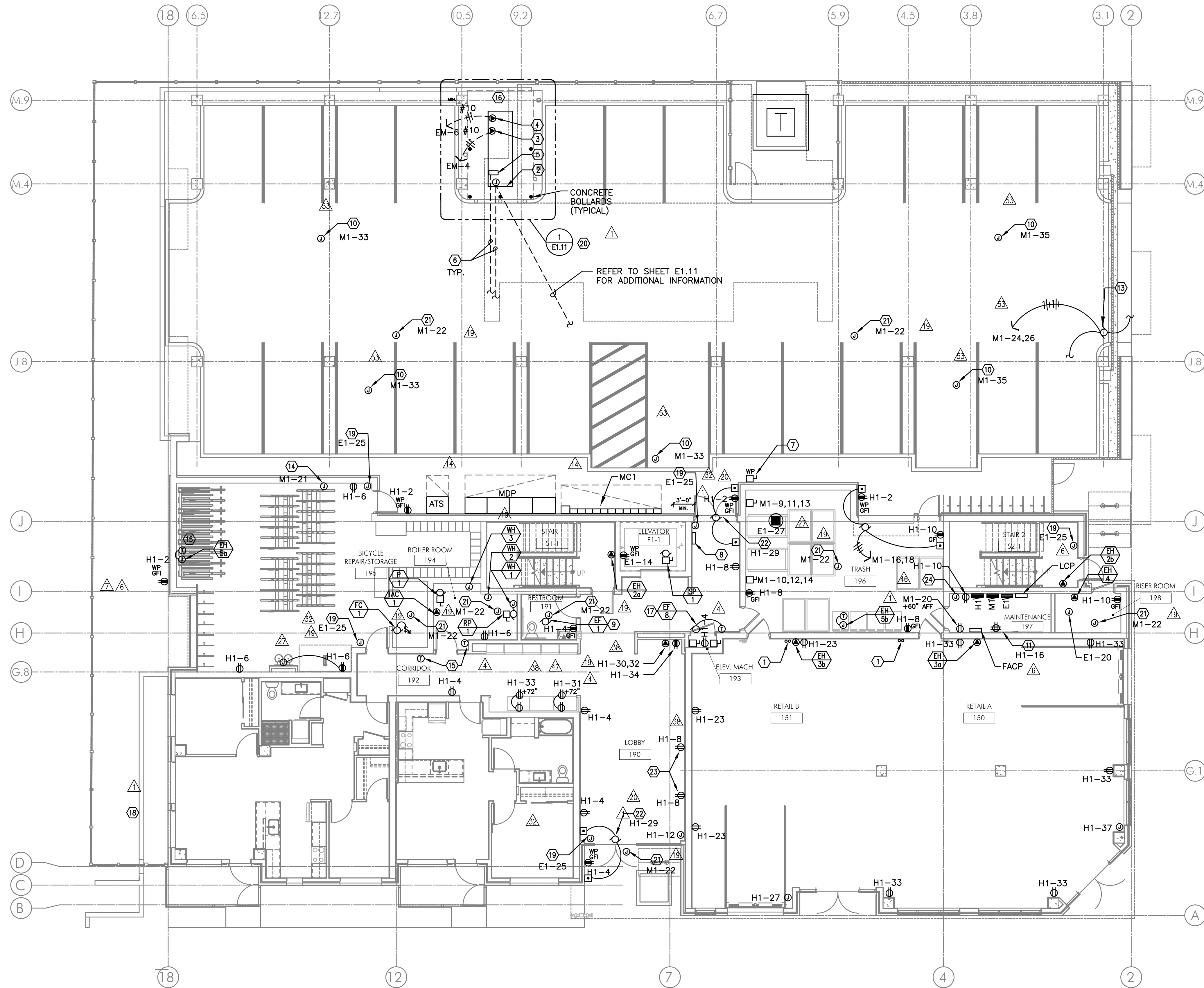
SHEET:
E3.01

GENERAL NOTES:

- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- 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".
- ELECTRICAL CONTRACTOR TO PROVIDE EMPTY CONDUIT FOR FUTURE CONNECTION OF MECHANICAL EQUIPMENT INSTALLED FOR EACH RETAIL SPACE. CONSULT MECHANICAL DRAWINGS AND COORDINATE WITH THE MECHANICAL INSTALLER FOR THE APPROPRIATE CONDUIT SIZE AND ROUTING PRIOR TO ROUGH IN.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- PER IFC 5704.2.3.2, TANKS MORE THAN 100 GALLONS (379 L) IN CAPACITY, WHICH ARE PERMANENTLY INSTALLED OR MOUNTED AND USED FOR THE STORAGE OF CLASS I, II OR III LIQUIDS, SHALL BEAR A LABEL AND PLACARD IDENTIFYING THE MATERIAL THEREIN. PLACARDS SHALL BE IN ACCORDANCE WITH NFPA 704.

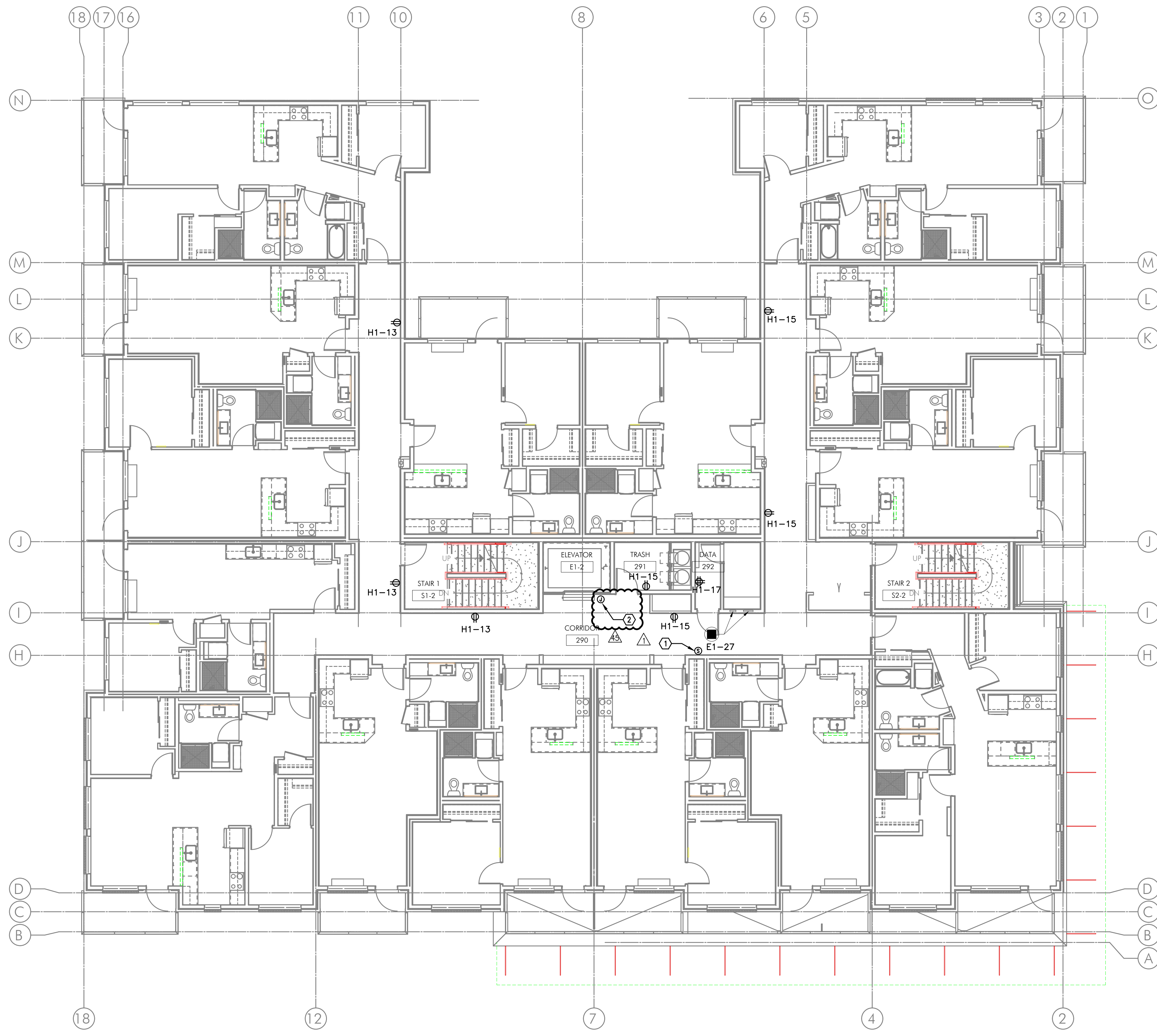
KEYED NOTES:

- ROUTE (2) EMPTY 3 1/2" CONDUIT FROM MC2 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
- DIESEL GENERATOR TO BE PROVIDED WITH DOUBLE-WALL FUEL TANK AND SPILL CONTAINMENT PER CITY OF PORTLAND REQUIREMENTS.
- 120V GENERATOR BLOCK HEATER. PANEL E1.
- 120V GENERATOR BATTERY CHARGER. PANEL E1.
- GENERATOR OUTPUT BREAKER AND CONTROL SECTION. PANEL E1.
- POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- GENERATOR REMOTE ANNUNCIATOR. PANEL E1.
- EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA. REFER TO DETAIL 3/E1.23 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- PROVIDE 20A, 120V, 1P POWER CONNECTION FOR HEAT TRACE. CIRCUIT AS NOTED.
- CONSULT TELEPHONE SERVICE PROVIDER TO COORDINATE EXACT LOCATION OF TELEPHONE BACKBOARD PRIOR TO ROUGH IN.
- COORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF SMOKE DAMPERS PRIOR TO ROUGH IN.
- MOTORIZED GATE AND CONTROLS. VERIFY EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN AND COORDINATE ALL WORK WITH GATE INSTALLER.
- PROVIDE 20A, 120V, 1P POWER CONNECTION FOR LOUVER DAMPER. CIRCUIT AS NOTED.
- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- CONSULT WITH MECHANICAL DRAWINGS FOR EXHAUST ROUTING.
- EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA. FAN TO BE CONTROLLED BY THERMOSTAT. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- ROUTE ONE 2" PVC CONDUIT SLEEVE W/ PULL STRING THROUGH STRUCTURE, FROM SWALE AREA TO LANDSCAPE PLANTERS. CONSULT LANDSCAPE CONTRACTOR FOR EXACT REQUIREMENTS AND ROUTING PRIOR TO ROUGH IN. REFER TO SHEET L-1 AND COORDINATE INSTALLATION WITH ARCHITECT.
- PROVIDE 20A, 120V, 1P POWER CONNECTION AT CEILING FOR FUTURE ACCESS CONTROL. CIRCUIT AS NOTED.
- DIESEL GENERATOR TANK SHALL BE DOUBLE WALLED AND EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.
- PROVIDE 20A, 120V, 1P POWER CONNECTION FOR TRAP PRIMER. CIRCUIT AS NOTED.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS.
- PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 18" AFF AS INDICATED. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER PLANS FOR EXACT LOCATION AND PRODUCT TYPE PRIOR TO ROUGH IN.
- PROVIDE ROUGH IN FOR SYMETRIX SYSTEM CONTROL. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.



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

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1 SECOND FLOOR POWER PLAN
 E3.02 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. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.

KEYED NOTES:

1. PROVIDE WIRE CONNECTION FOR SENSOR/THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E1" FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.



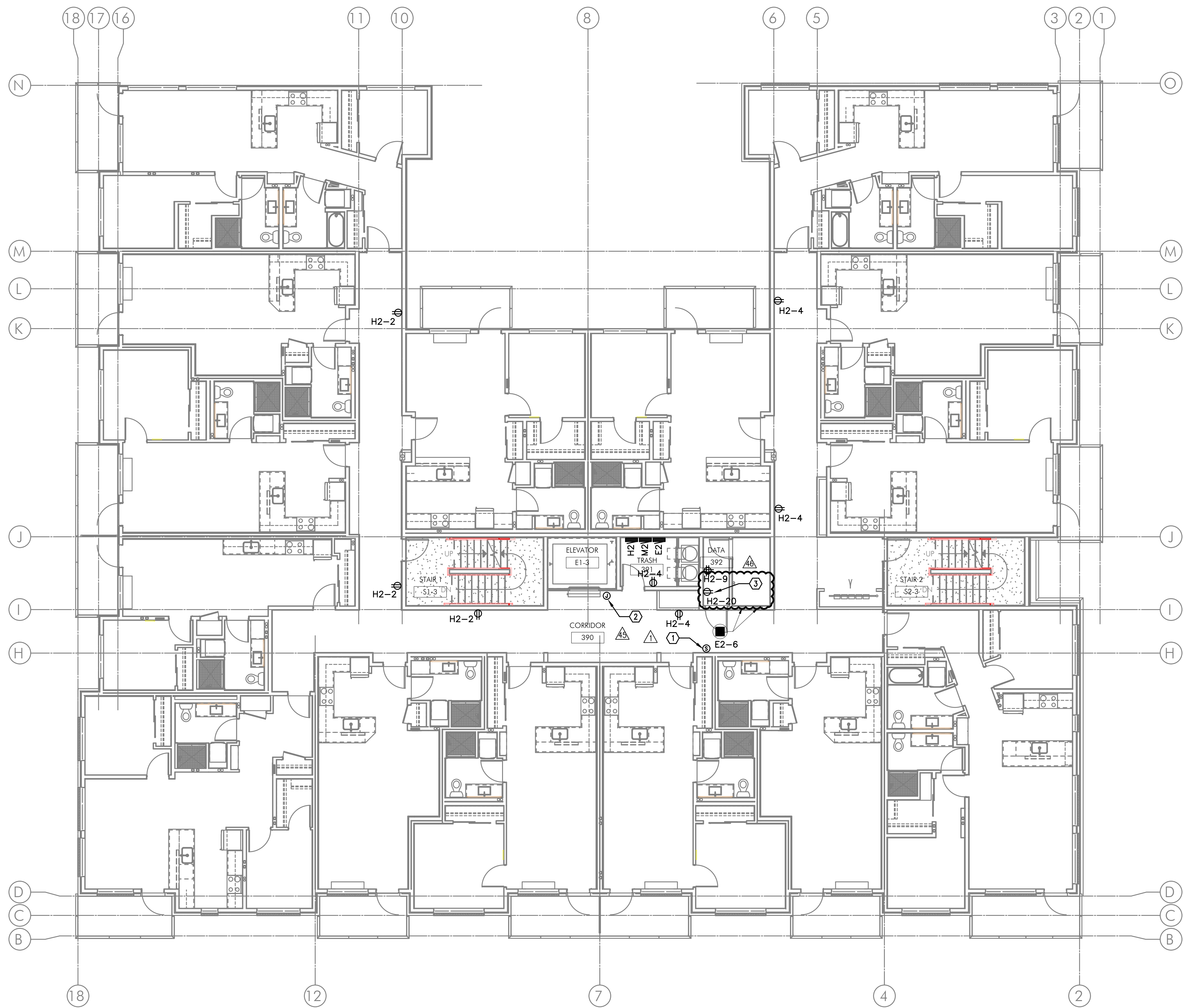
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PROJECT # 2014-75
 DATE: 10-08-2015

REVISIONS	
02.05.16	PLAN REVIEW
08.31.18	COORDINATION

**VANCOUVER AVE PHASE II
 MIXED USE BUILDING**
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GENERAL NOTES:

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- B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.

KEYED NOTES:

- 1. PROVIDE WIRE CONNECTION FOR SENSOR/THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E1" FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
- 3. PROVIDE ONE DEDICATED 20A CIRCUIT WITH #6 GROUND AND FIRE RATED BACKBOARD. CONSULT INTERIORS GROUP FOR EXACT ELECTRICAL REQUIREMENTS, LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH IN. CIRCUIT AS INDICATED.

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



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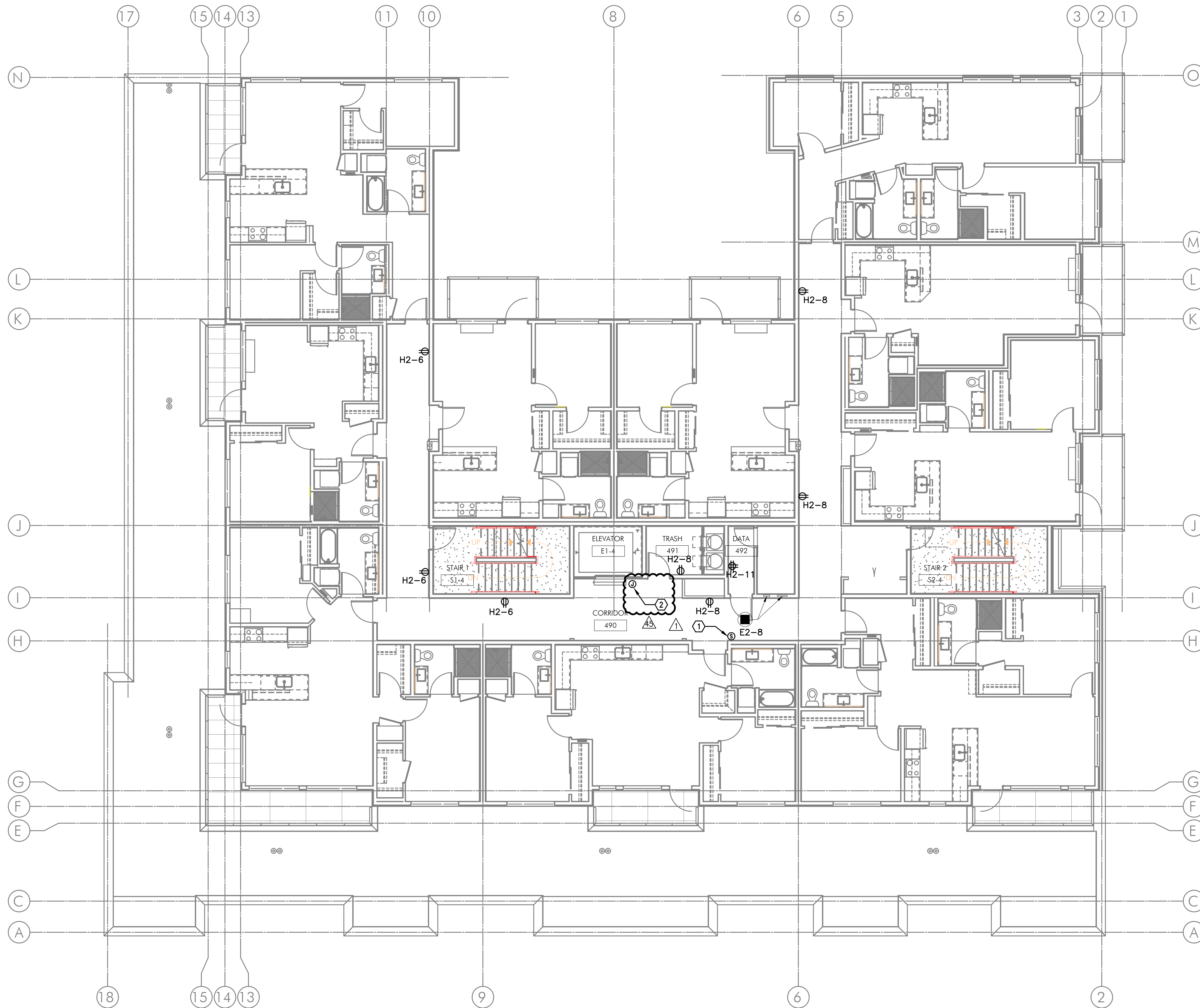
PROJECT # 2014-75
 DATE: 10-08-2015

REVISIONS	
△ 02.05.16	PLAN REVIEW
△ 08.31.18	COORDINATION
△ 09.21.18	COORDINATION

**VANCOUVER AVE PHASE II
 MIXED USE BUILDING**
 NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

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SHEET:
E3.03



1 FOURTH FLOOR POWER PLAN
 E3.04 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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- B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.

KEYED NOTES:

- 1. PROVIDE WIRE CONNECTION FOR SENSOR/THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E1" FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.



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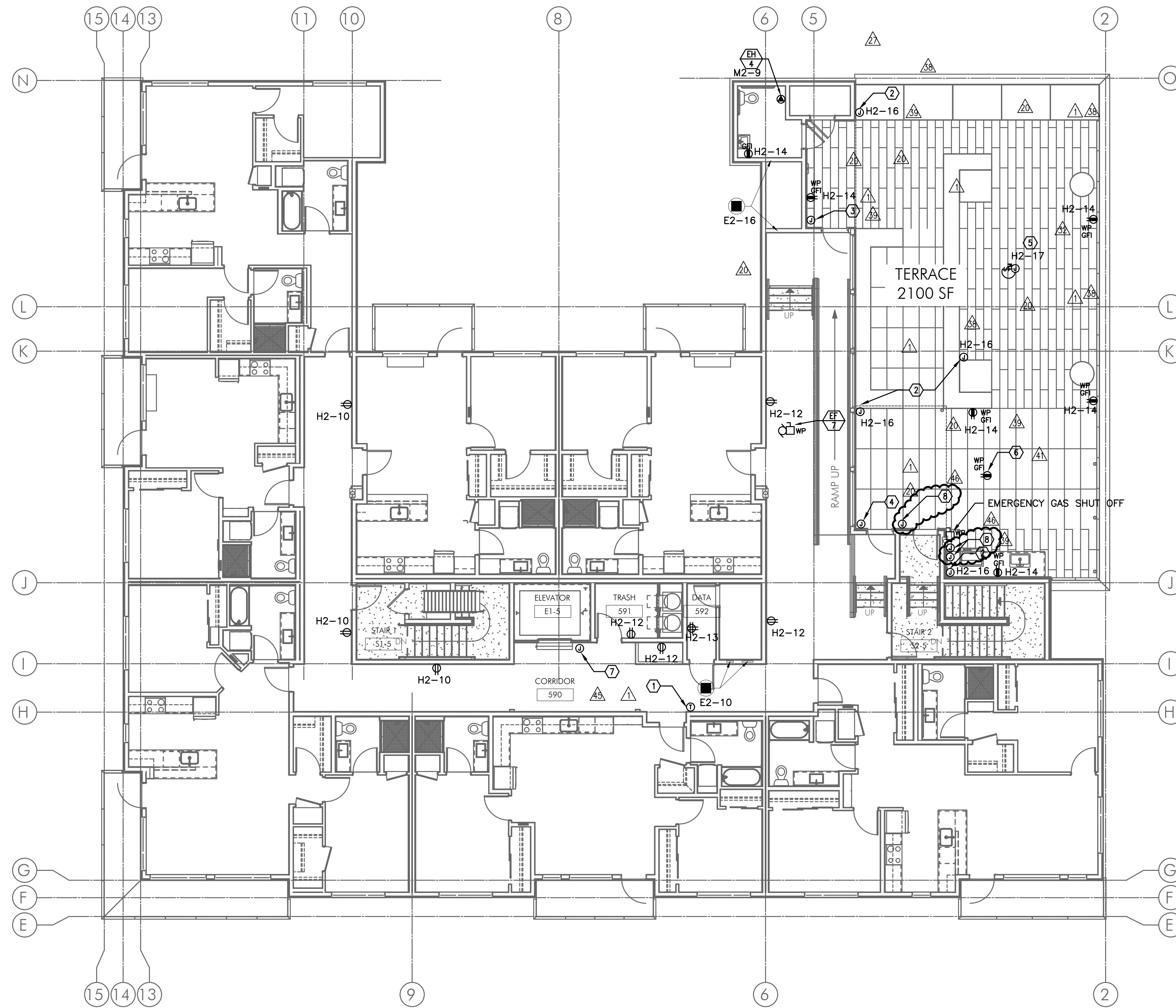
REVISIONS	
02.05.16	PLAN REVIEW
08.31.18	COORDINATION

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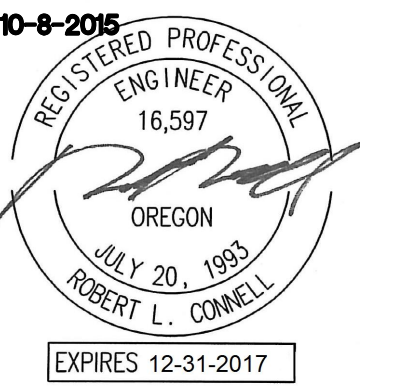


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- B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- D. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.

KEYED NOTES:

- 1. PROVIDE WIRE CONNECTION FOR SENSOR/THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2. POWER CONNECTION(S) PROVIDED AT ROOF TOP TERRACE FOR LOW VOLTAGE LANDSCAPE LIGHTING BY OTHERS. COORDINATE WITH LANDSCAPE CONTRACTOR FOR ADDITIONAL REQUIREMENTS PRIOR TO ROUGH IN.
- 3. PROVIDE WEATHER PROOF J-BOX FOR ADDITIONAL/FUTURE LIGHTING TIED INTO LIGHTING CIRCUIT H2-15.
- 4. PROVIDE WEATHER PROOF J-BOX FOR FUTURE DEVICES AND CIRCUIT TO H2-18.
- 5. CONSULT FIRE PIT MANUFACTURER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN AND COORDINATE WORK WITH ALL TRADES FOR COMPLETE INSTALL.
- 6. PROVIDE ONE COUNTER HEIGHT 20A, WEATHERPROOF GFCI DUPLEX RECEPTACLE AT ISLAND COUNTER. TIE INTO NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT. CONSULT ARCHITECT AND/OR INTERIOR DECORATOR FOR EXACT LOCATION AND FINISH REQUIREMENTS.
- 7. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E1" FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
- 8. PROVIDE ROUGH IN FOR A/V SYSTEM AS REQUIRED. CONSULT INTERIORS GROUP FOR EXACT LOCATIONS. COORDINATE WITH SYSTEM INSTALLER FOR EXACT ELECTRICAL REQUIREMENTS.



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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
3A	04.20.18 COORDINATION
4A	06.22.18 COORDINATION
4B	08.31.18 COORDINATION
4C	09.21.18 COORDINATION

**VANCOUVER AVE PHASE II
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1 FIFTH FLOOR POWER PLAN
E3.05 SCALE: 1/8" = 1'-0"

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SHEET:
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PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
6	12.16.16 COORDINATION
7	12.30.16 COORDINATION
8	06.30.17 COORDINATION
9	12.15.17 COORDINATION

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. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR THE EXACT POWER REQUIREMENTS AND LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN.
- C. ELECTRICAL CONTRACTOR TO PROVIDE EMPTY CONDUIT FOR FUTURE CONNECTION OF MECHANICAL EQUIPMENT INSTALLED FOR EACH RETAIL SPACE. CONSULT MECHANICAL DRAWINGS AND COORDINATE WITH THE MECHANICAL INSTALLED FOR THE APPROPRIATE CONDUIT SIZE AND ROUTING PRIOR TO ROUGH IN.
- D. ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF ONE 20A, 120V, 1P RECEPTACLE CIRCUIT FROM PANEL M2 FOR WEATHER PROOF GFIC RATED RECEPTACLES AS REQUIRED BY CODE.

E. ELECTRICAL CONTRACTOR SHALL CONSULT MECHANICAL PLANS FOR THE PURPOSE OF COORDINATING APARTMENT DESIGNATION(S) OF ROOF MOUNTED HEAT PUMP UNITS.

KEYED NOTES:

- 1. ROUTE EMPTY 1 1/4" CONDUIT WITH PULL STRING FROM LEASE SPACE FOR TENANT SUPPLIED HVAC EQUIPMENT AND CAP OFF.



1 ROOF LEVEL POWER PLAN
E3.06 SCALE: 1/8" = 1'-0"

**VANCOUVER AVE PHASE II
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SHEET:
E3.06



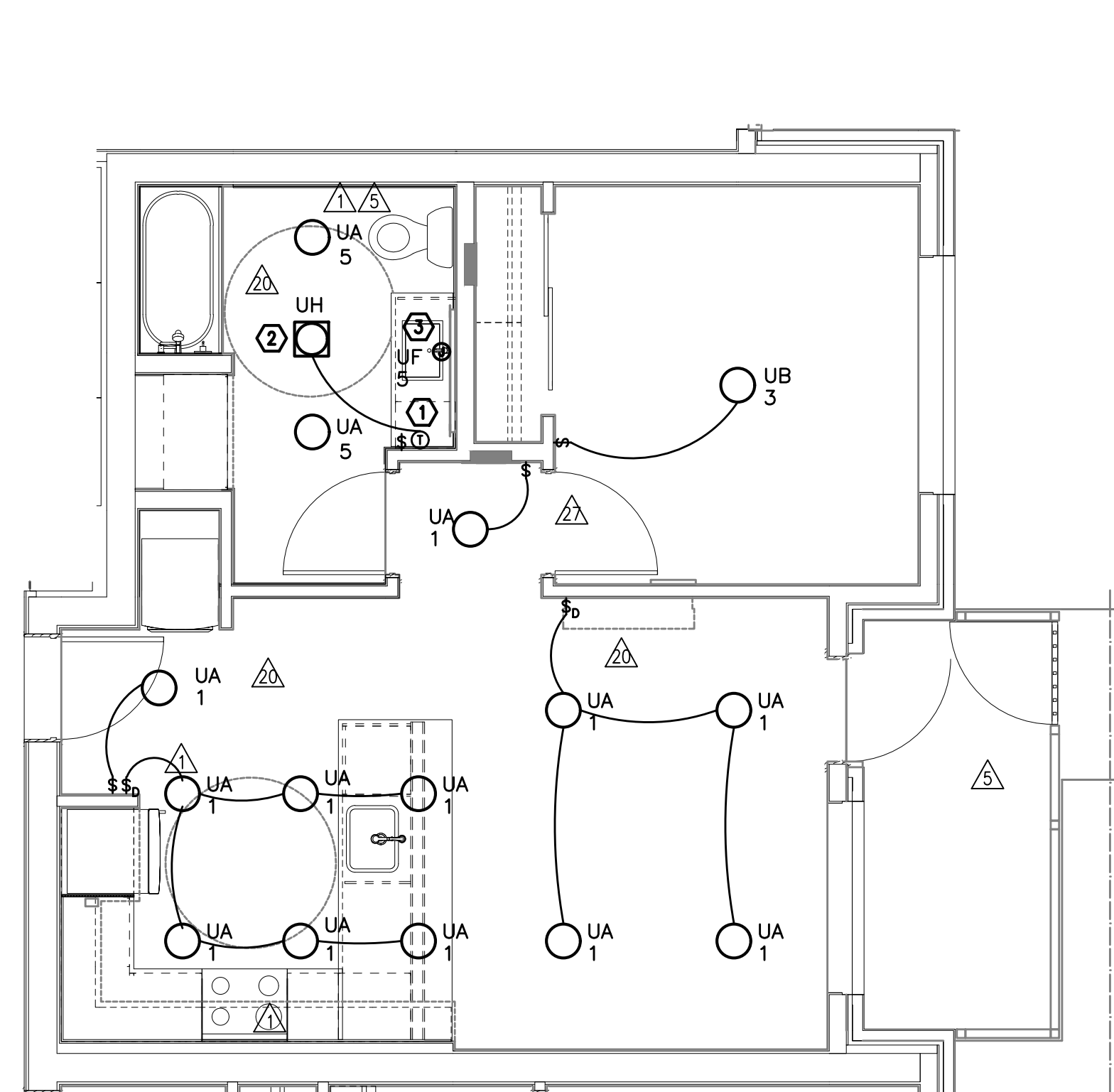
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PROJECT # 2014-75
DATE: 10-08-2015

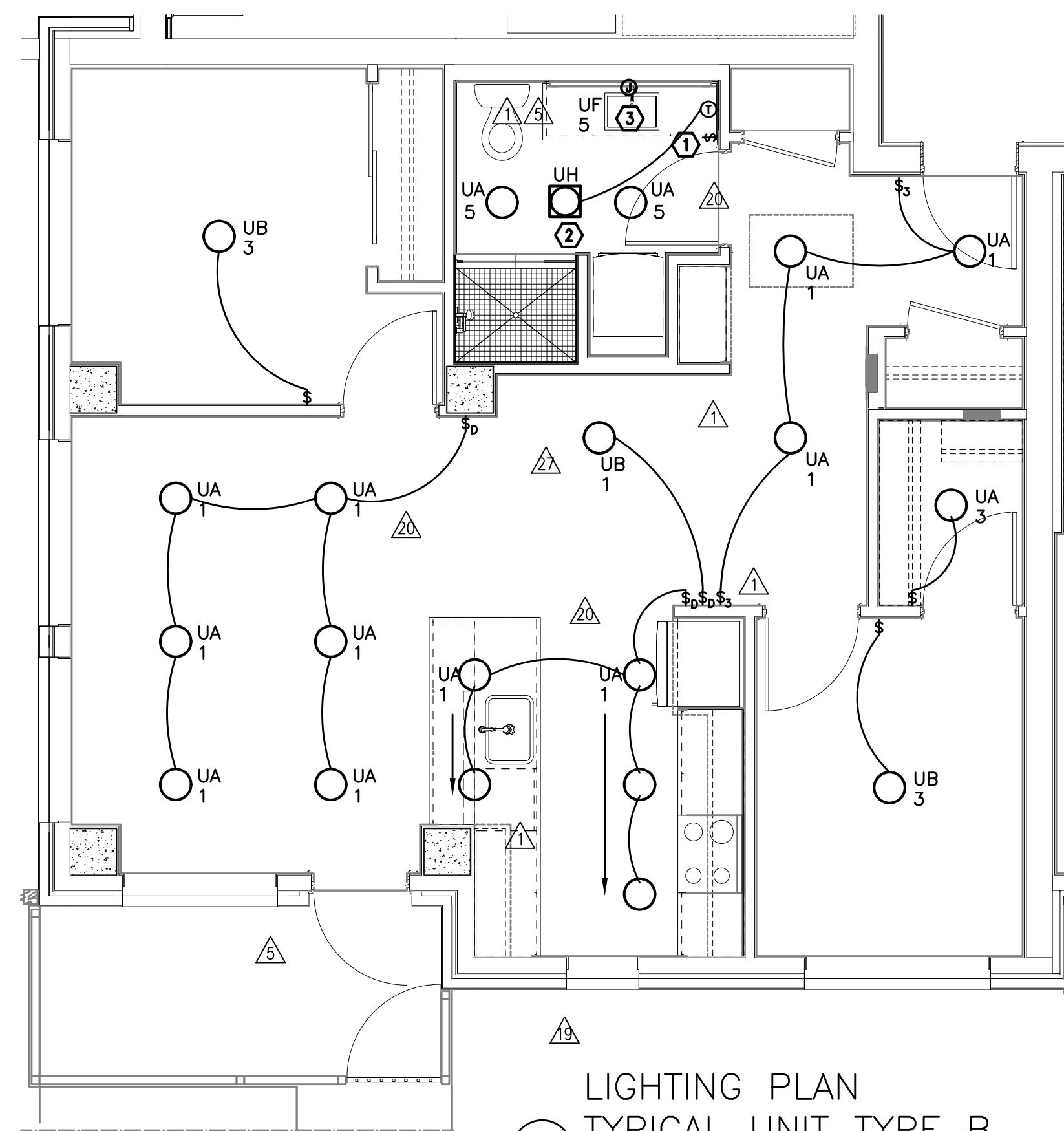
REVISIONS	
1	06.30.17 COORDINATION
2	07.14.17 COORDINATION
3	12.15.17 COORDINATION
4	06.22.18 COORDINATION

**VANCOUVER AVE PHASE II
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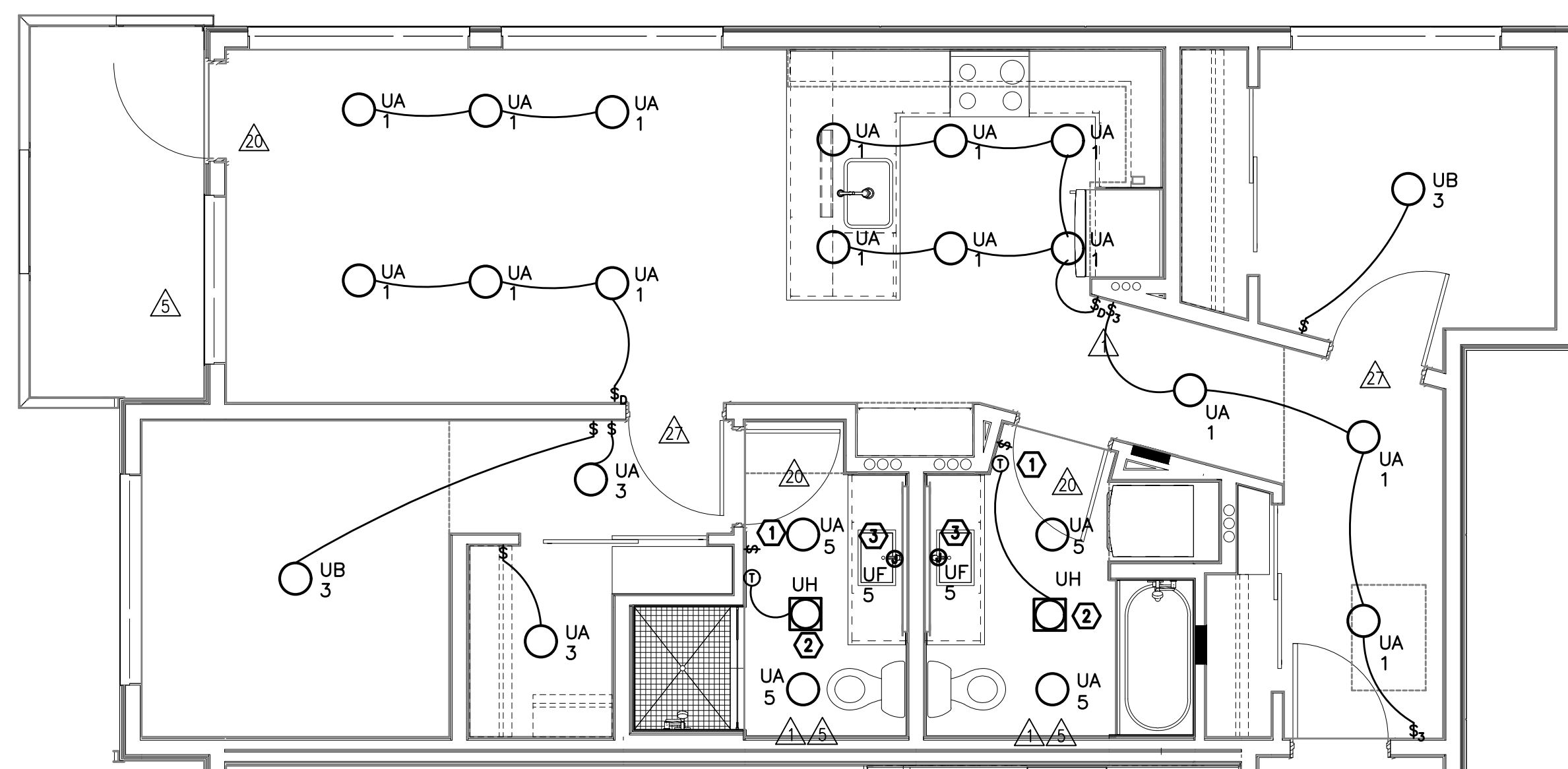
SHEET:
E4.01



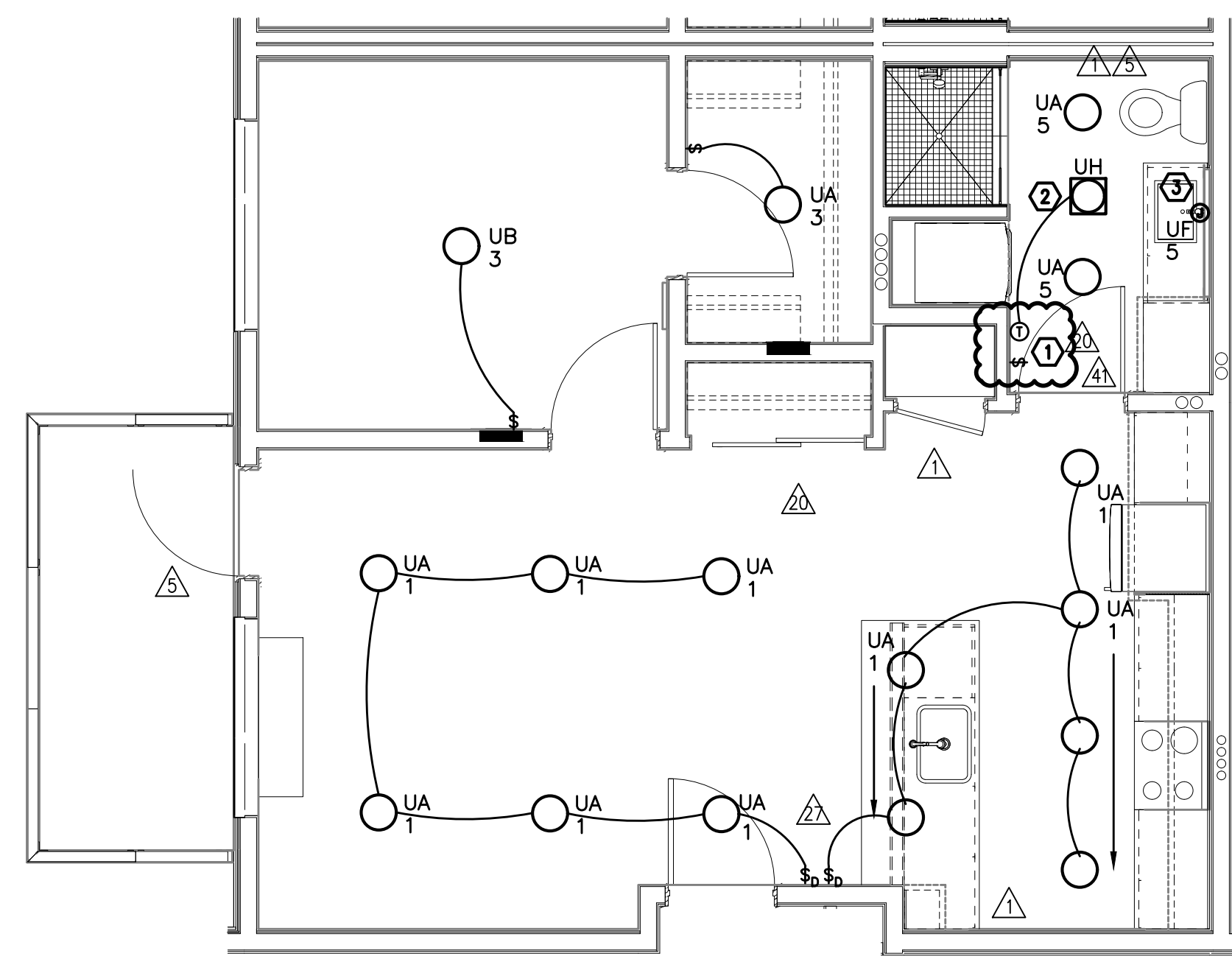
LIGHTING PLAN
TYPICAL UNIT TYPE A-ADA
1 E401 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE B
2 E401 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE C
3 E401 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE D
4 E401 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. CONSULT INTERIOR DESIGNER FOR MOUNTING HEIGHTS NOT SPECIFIED.

KEYED NOTES (APARTMENT UNITS):

- 1 REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- 2 PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM HEATER FROM TENANT LOAD CENTER. PROVIDE THERMOSTAT AS INDICATED.
- 3 PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

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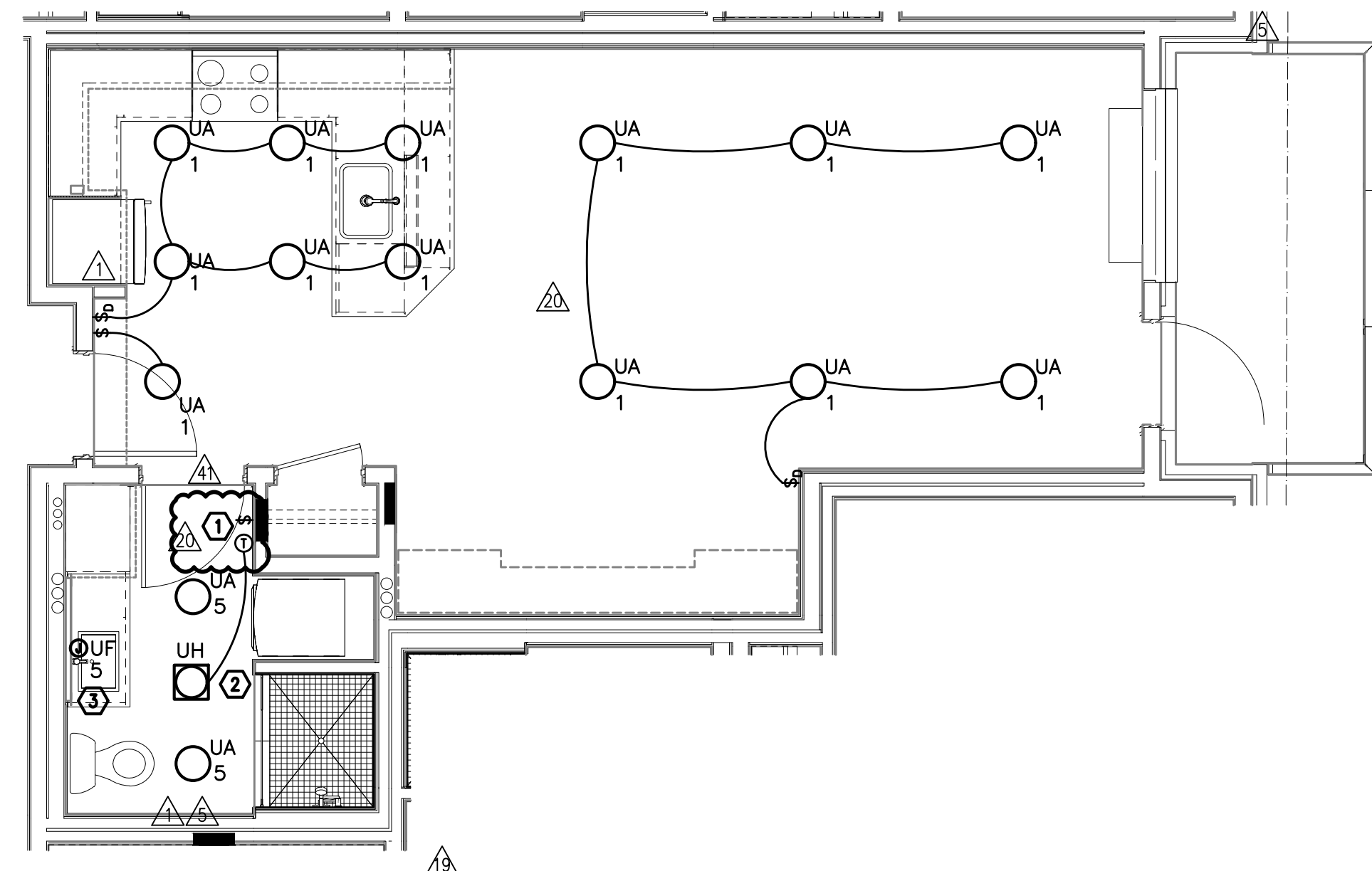


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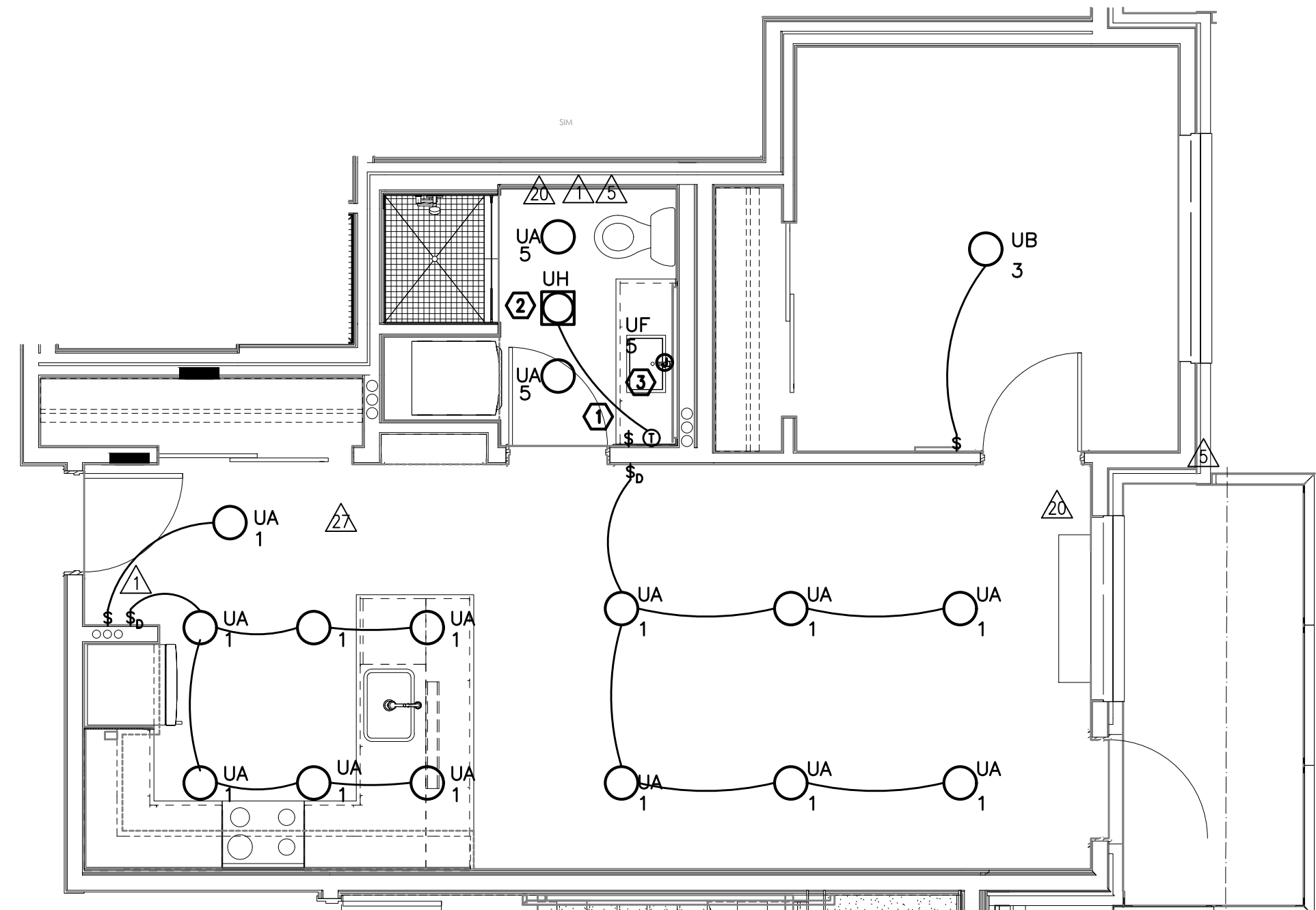
PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS

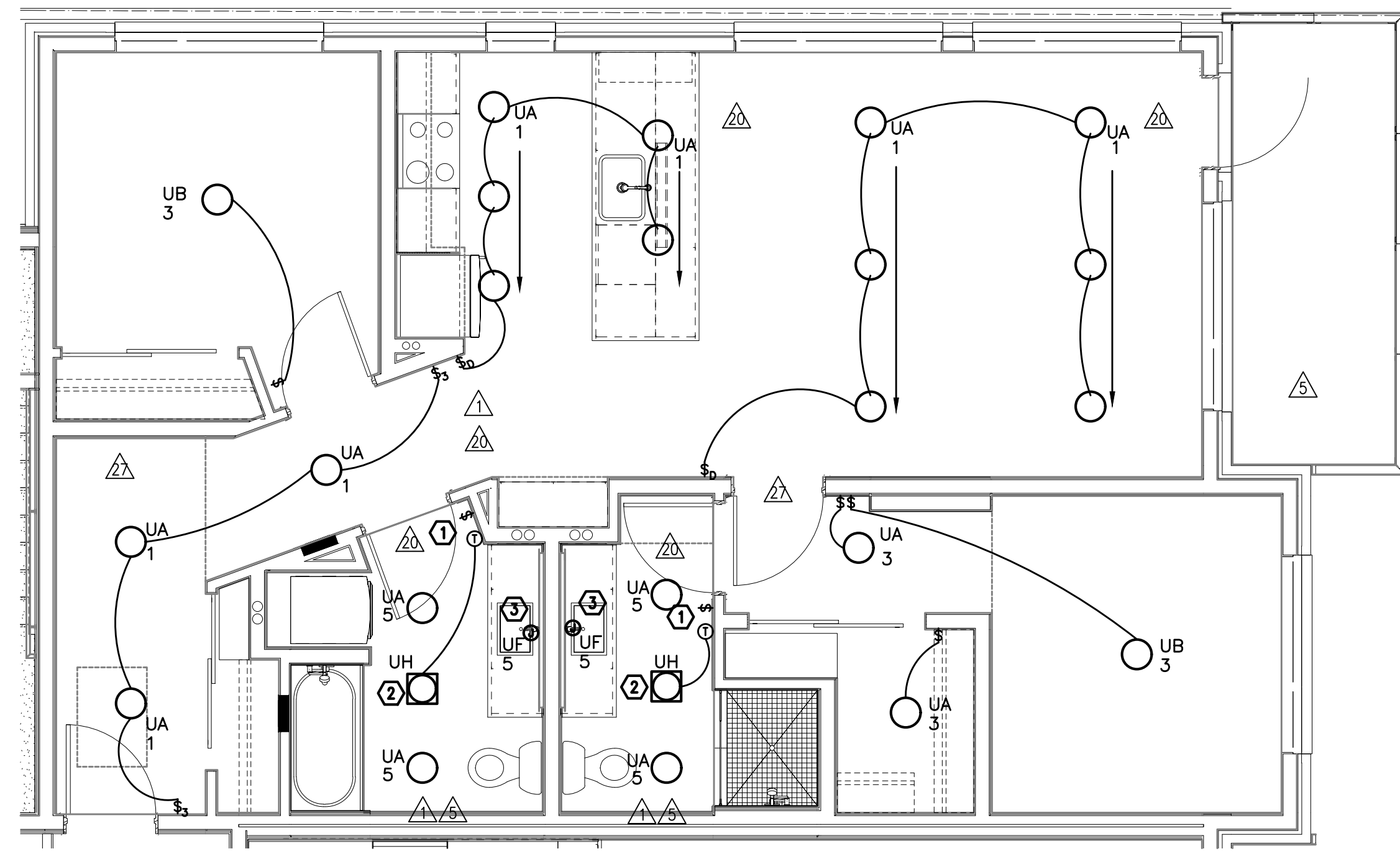
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2	07.14.17	COORDINATION
3	12.15.17	COORDINATION
4	06.22.18	COORDINATION



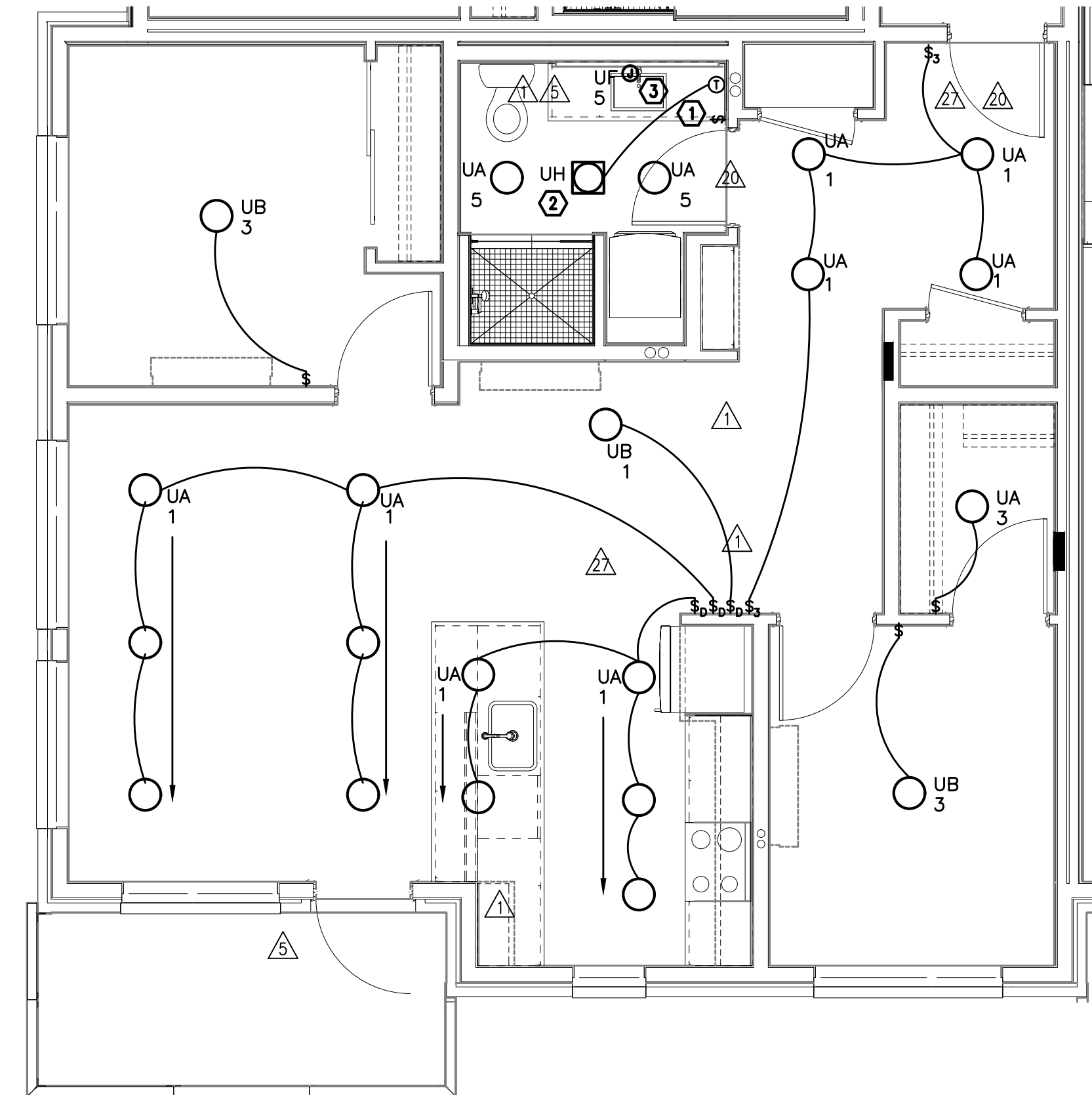
LIGHTING PLAN
TYPICAL UNIT TYPE E
1
E402 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE F
2
E402 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE G
3
E402 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE H
4
E402 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. CONSULT INTERIOR DESIGNER FOR MOUNTING HEIGHTS NOT SPECIFIED.

KEYED NOTES (APARTMENT UNITS):

- 1 REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- 2 PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM HEATER FROM TENANT LOAD CENTER. PROVIDE THERMOSTAT AS INDICATED.
- 3 PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

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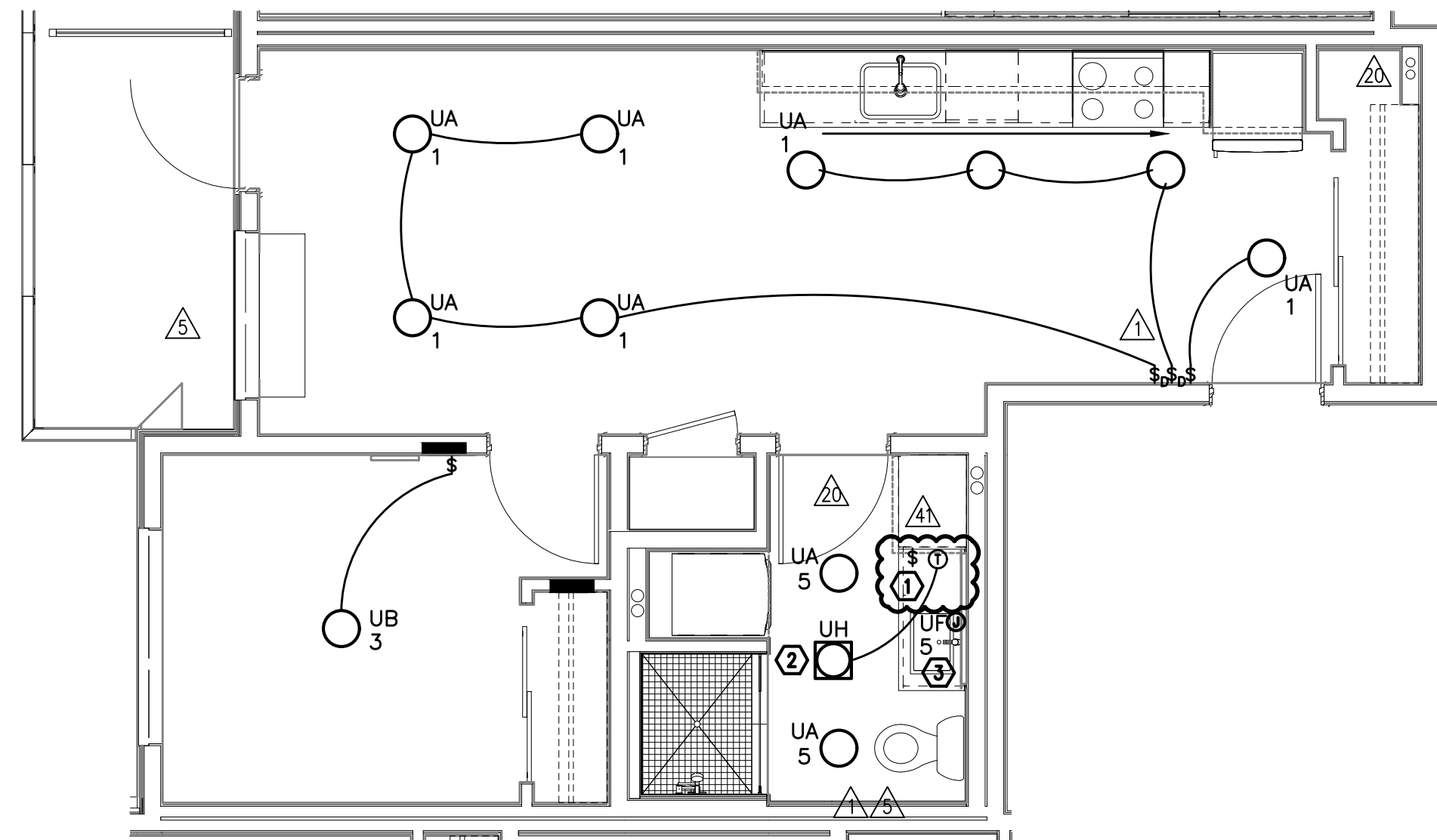
SHEET:
E4.02



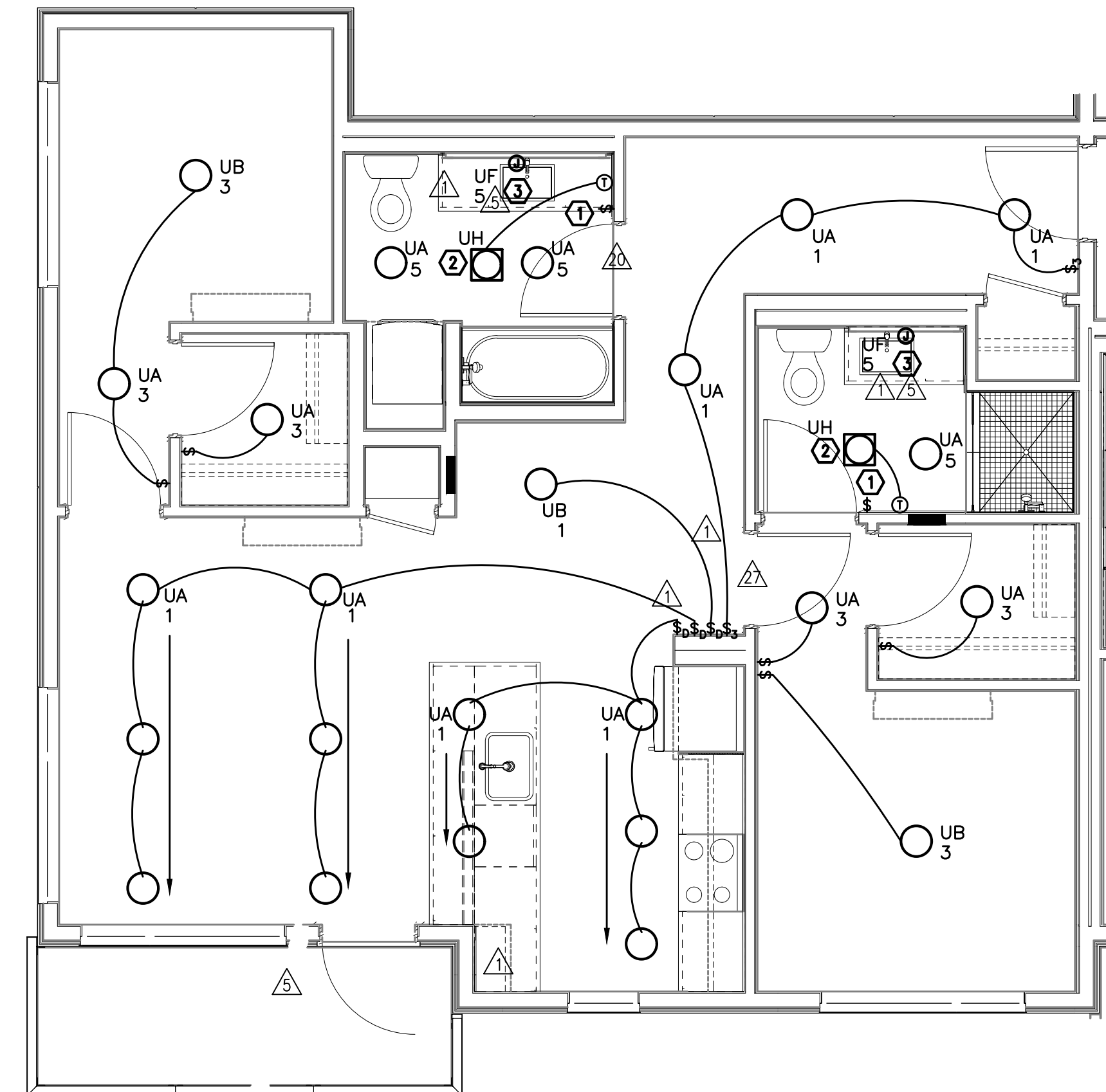
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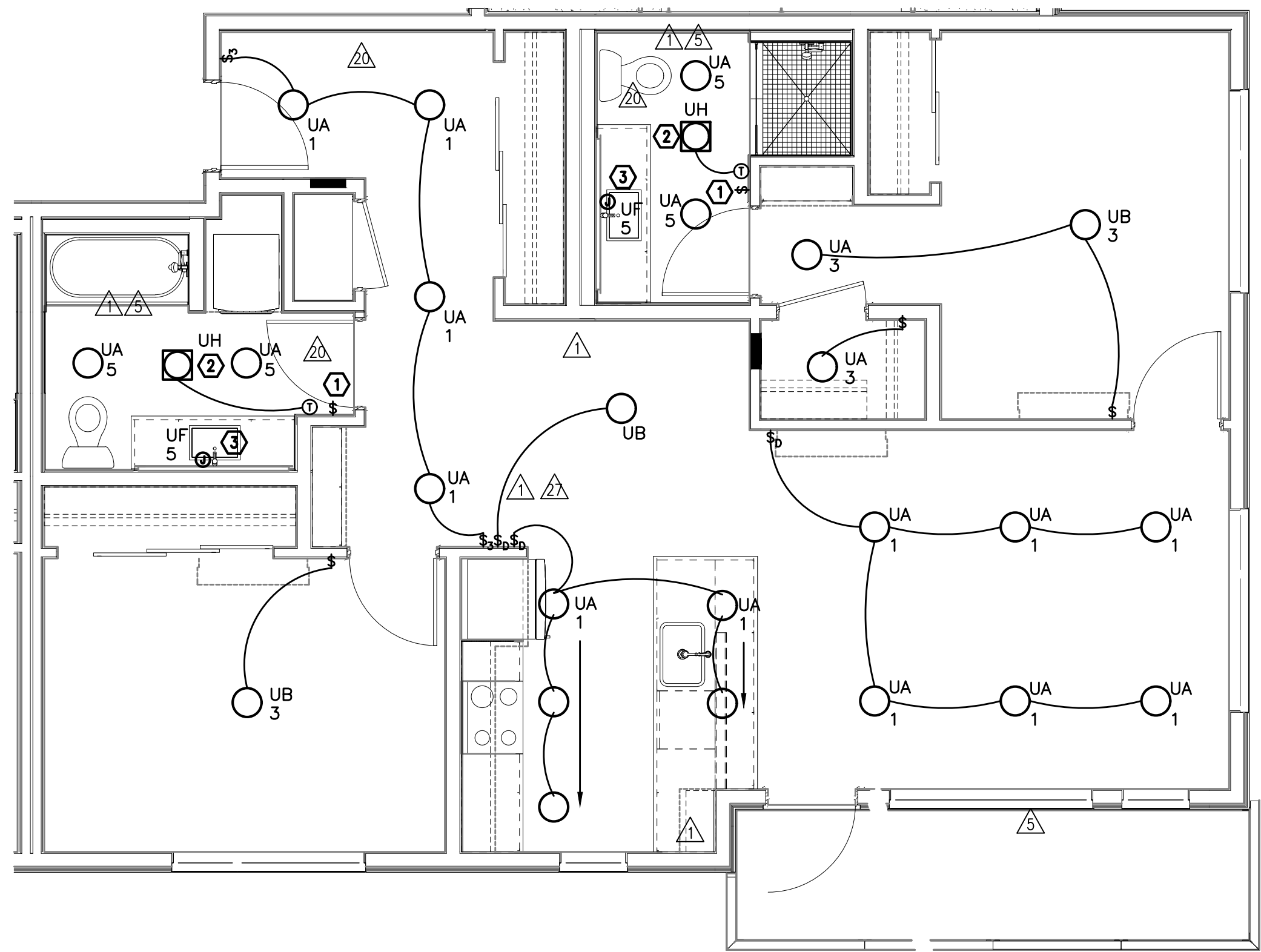
REVISIONS	
19	06.30.17 COORDINATION
20	07.14.17 COORDINATION
21	12.15.17 COORDINATION
22	06.22.18 COORDINATION



19 LIGHTING PLAN
TYPICAL UNIT TYPE I
E403 SCALE: 1/4" = 1'-0"



20 LIGHTING PLAN
TYPICAL UNIT TYPE J
E403 SCALE: 1/4" = 1'-0"



21 LIGHTING PLAN
TYPICAL UNIT TYPE K
E403 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. CONSULT INTERIOR DESIGNER FOR MOUNTING HEIGHTS NOT SPECIFIED.

KEYED NOTES (APARTMENT UNITS):

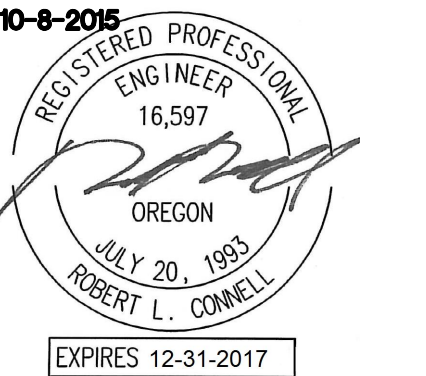
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- 3 PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

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SHEET:

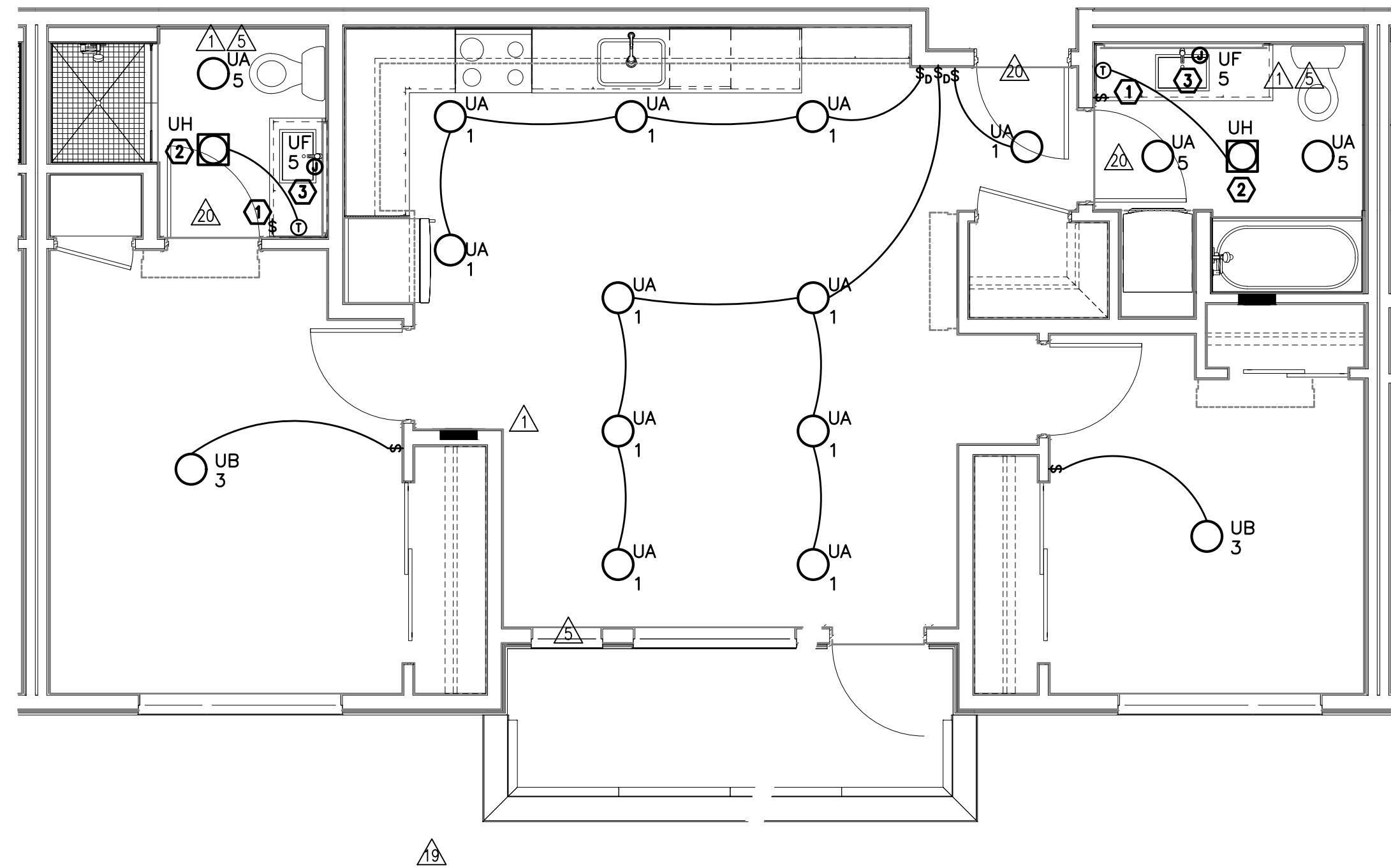
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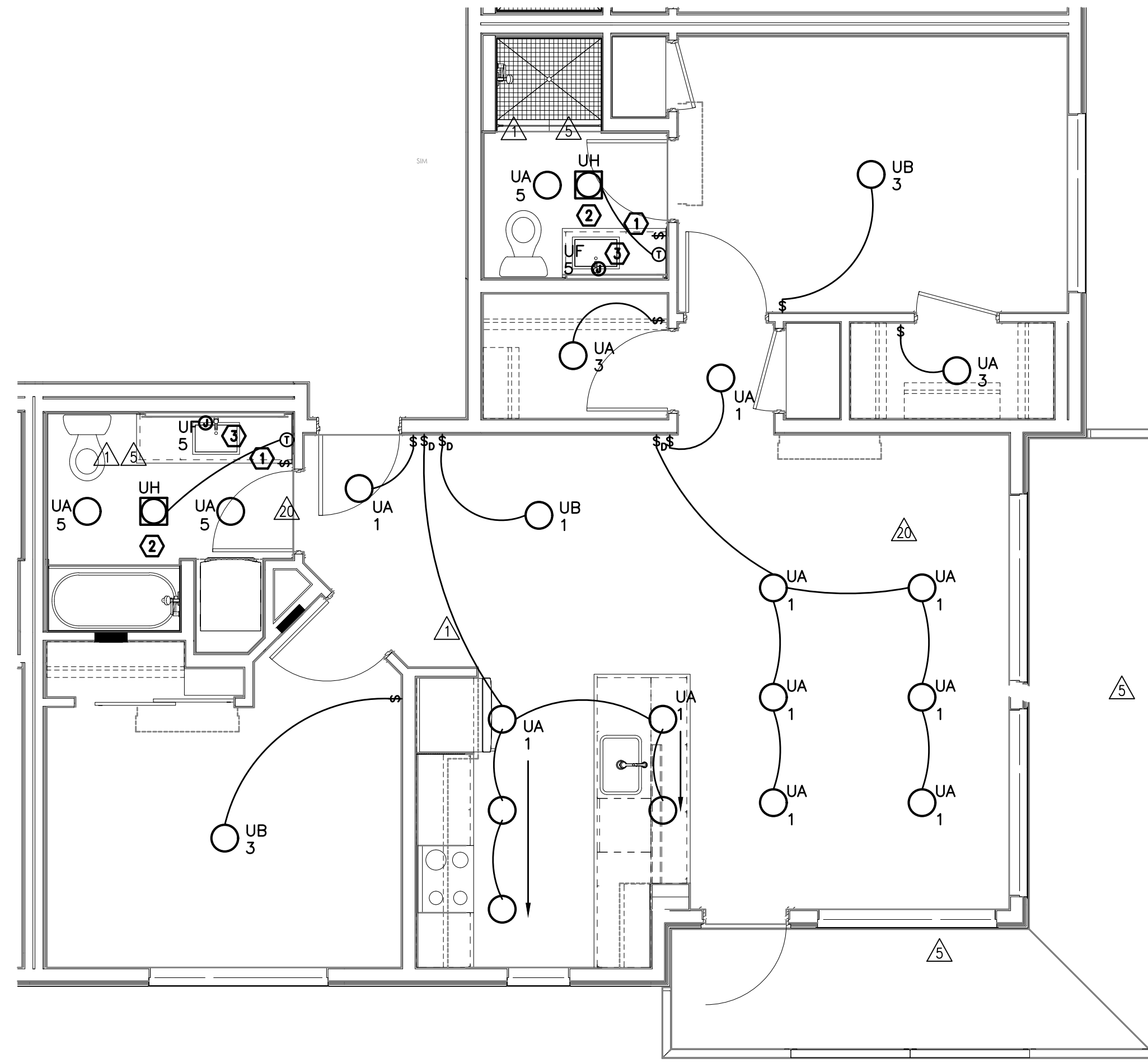
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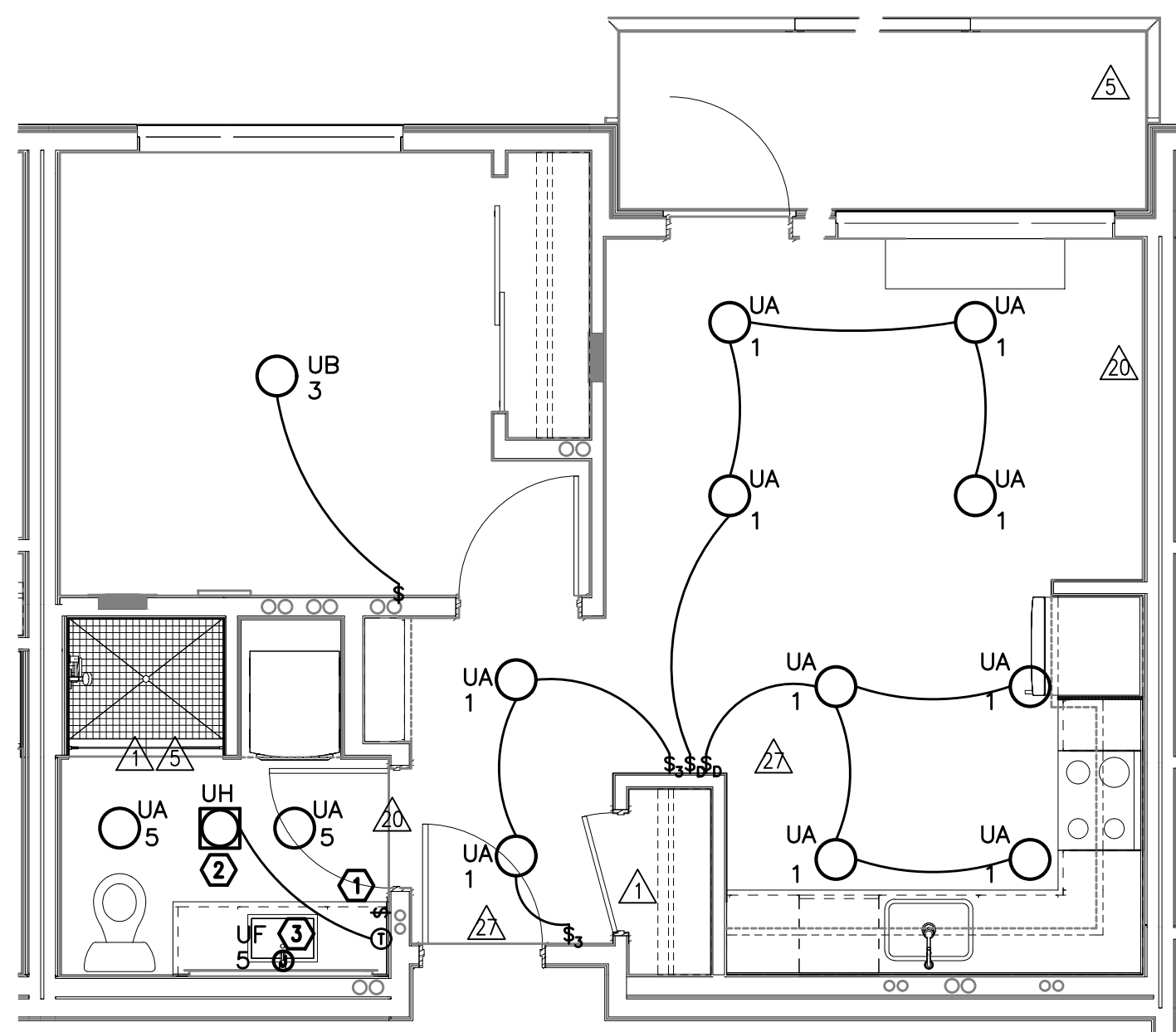
REVISIONS	
10.21.16	COORDINATION
06.30.17	COORDINATION
07.14.17	COORDINATION
12.15.17	COORDINATION



LIGHTING PLAN
TYPICAL UNIT TYPE L
1
E404 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE M
2
E404 SCALE: 1/4" = 1'-0"



LIGHTING PLAN
TYPICAL UNIT TYPE N
3
E404 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. CONSULT INTERIOR DESIGNER FOR MOUNTING HEIGHTS NOT SPECIFIED.

KEYED NOTES (APARTMENT UNITS):

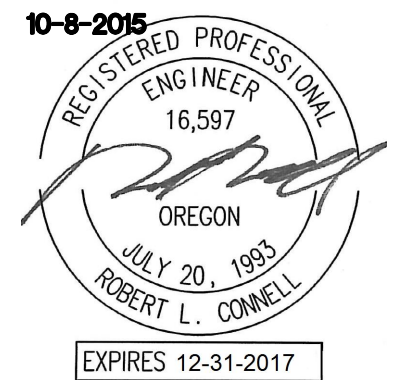
- 1 REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
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SHEET:

E4.04



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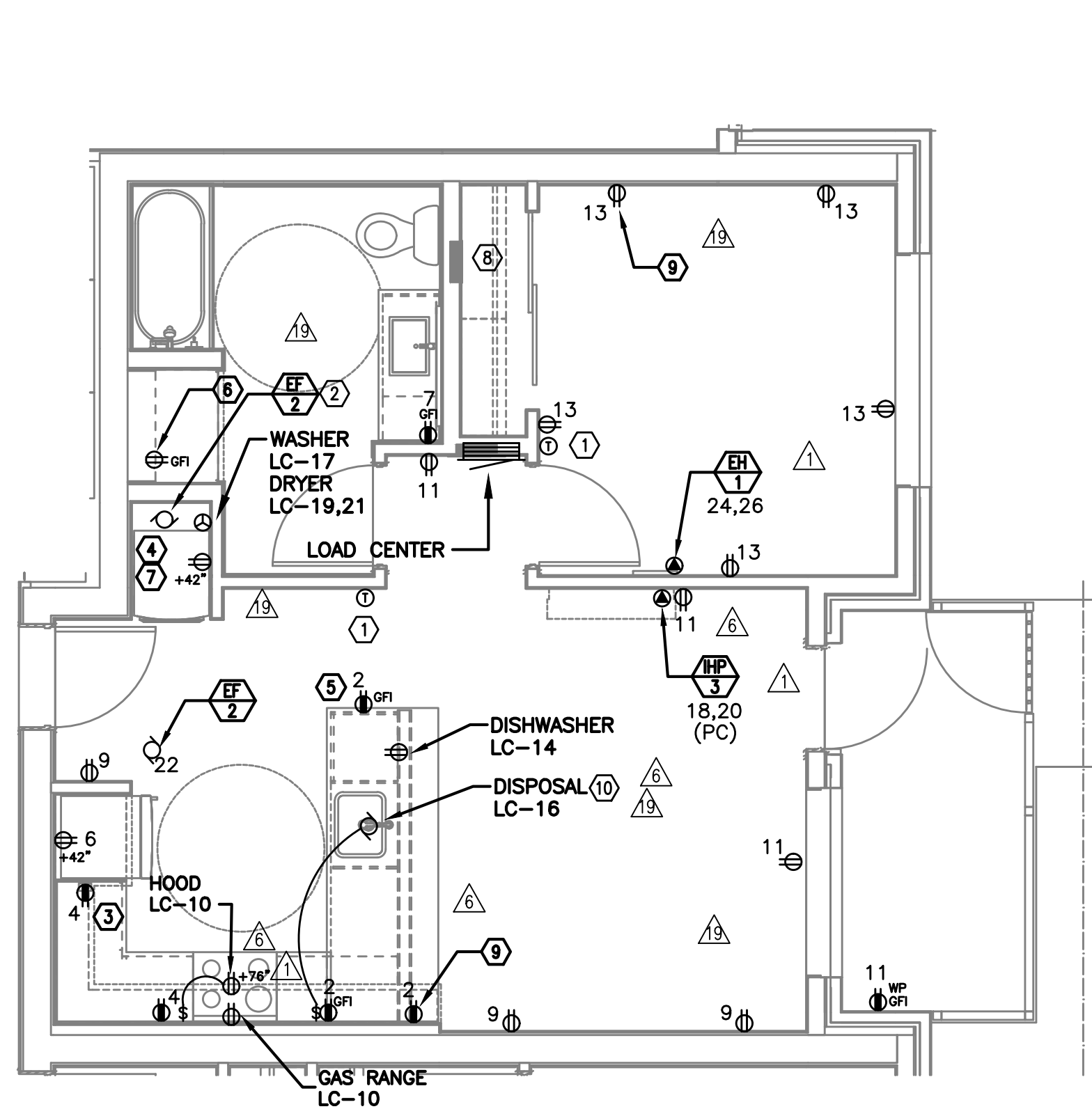
PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS	
1	02.05.16 PLAN REVIEW
2	16.16.16 COORDINATION
3	06.30.17 COORDINATION
4	07.14.17 COORDINATION

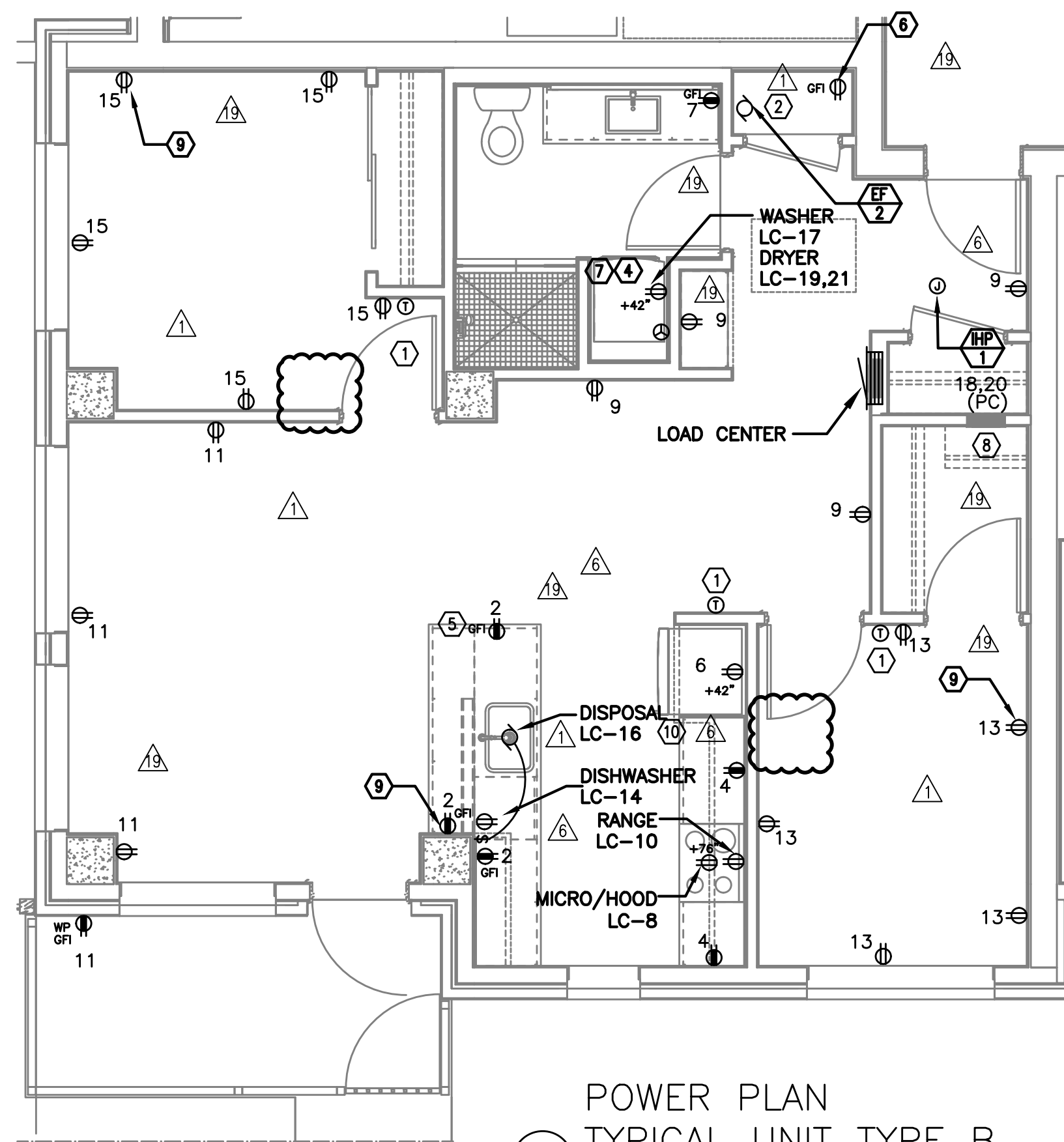
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SHEET:
E4.11

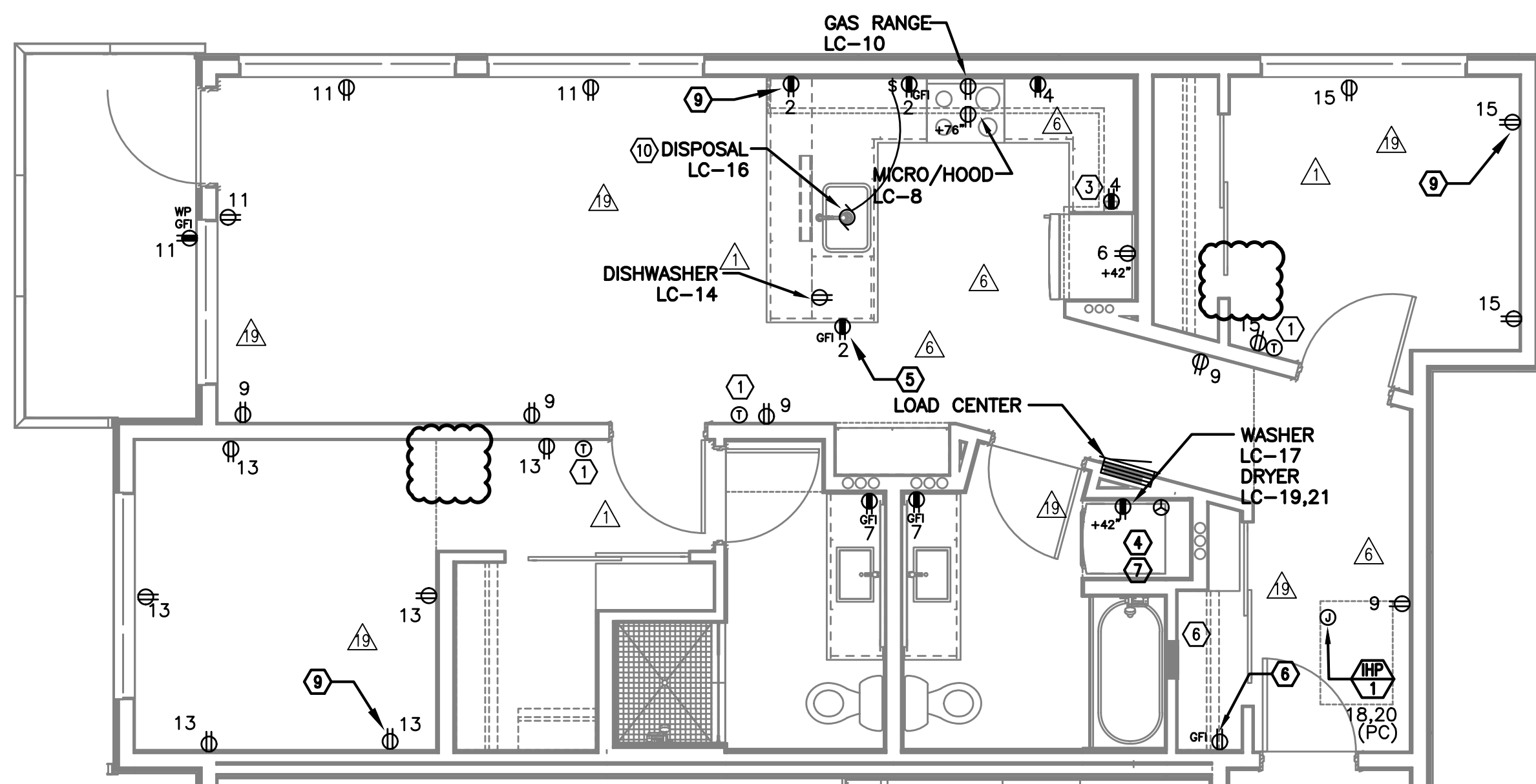
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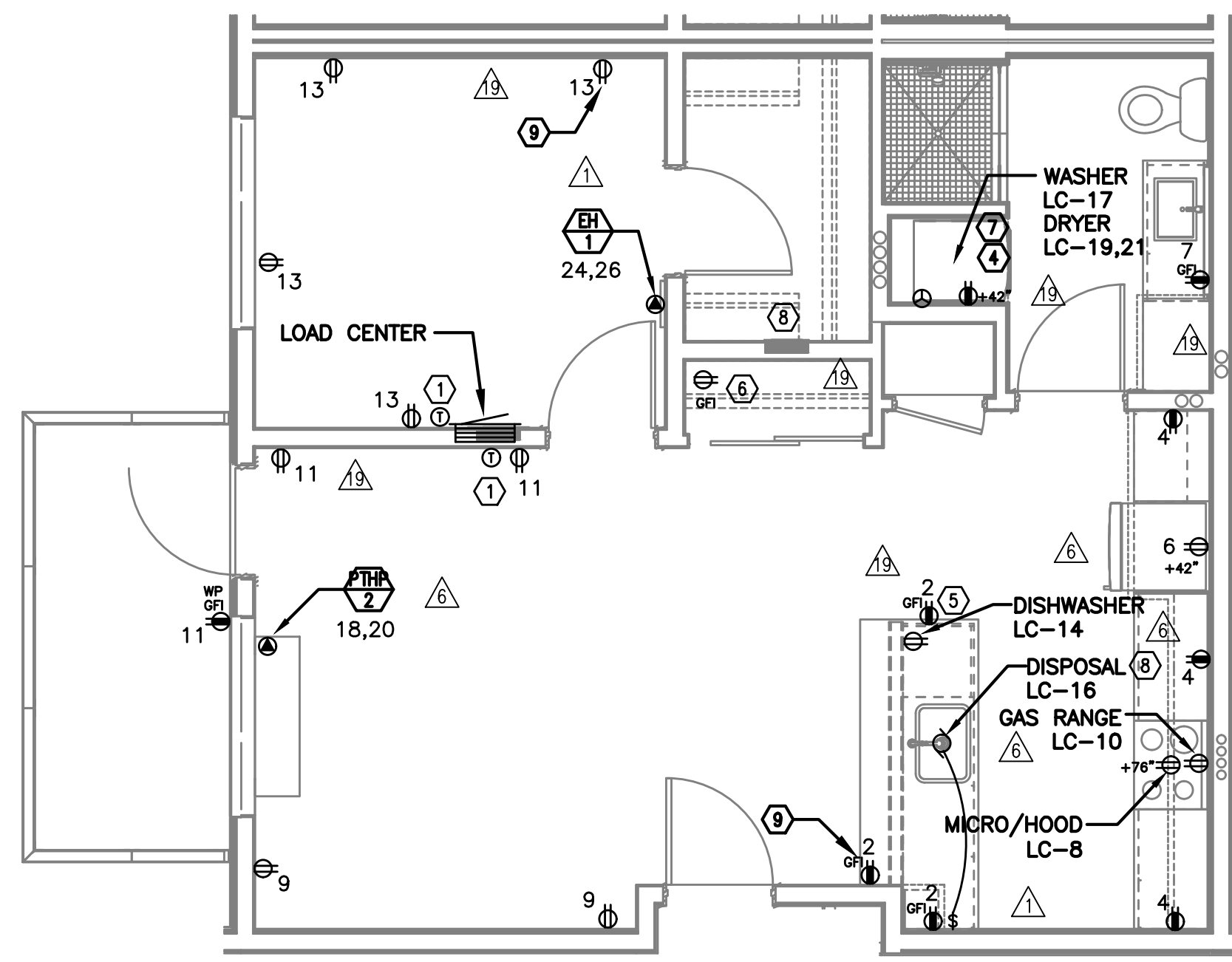
POWER PLAN
TYPICAL UNIT TYPE A-ADA
1 E411 SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE B
2 E411 SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE C
3 E411 SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE D
4 E411 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- B. REFER TO DETAILS ON SHEET E1.23 AND G2.01 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. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

KEYED NOTES (APARTMENT UNITS):

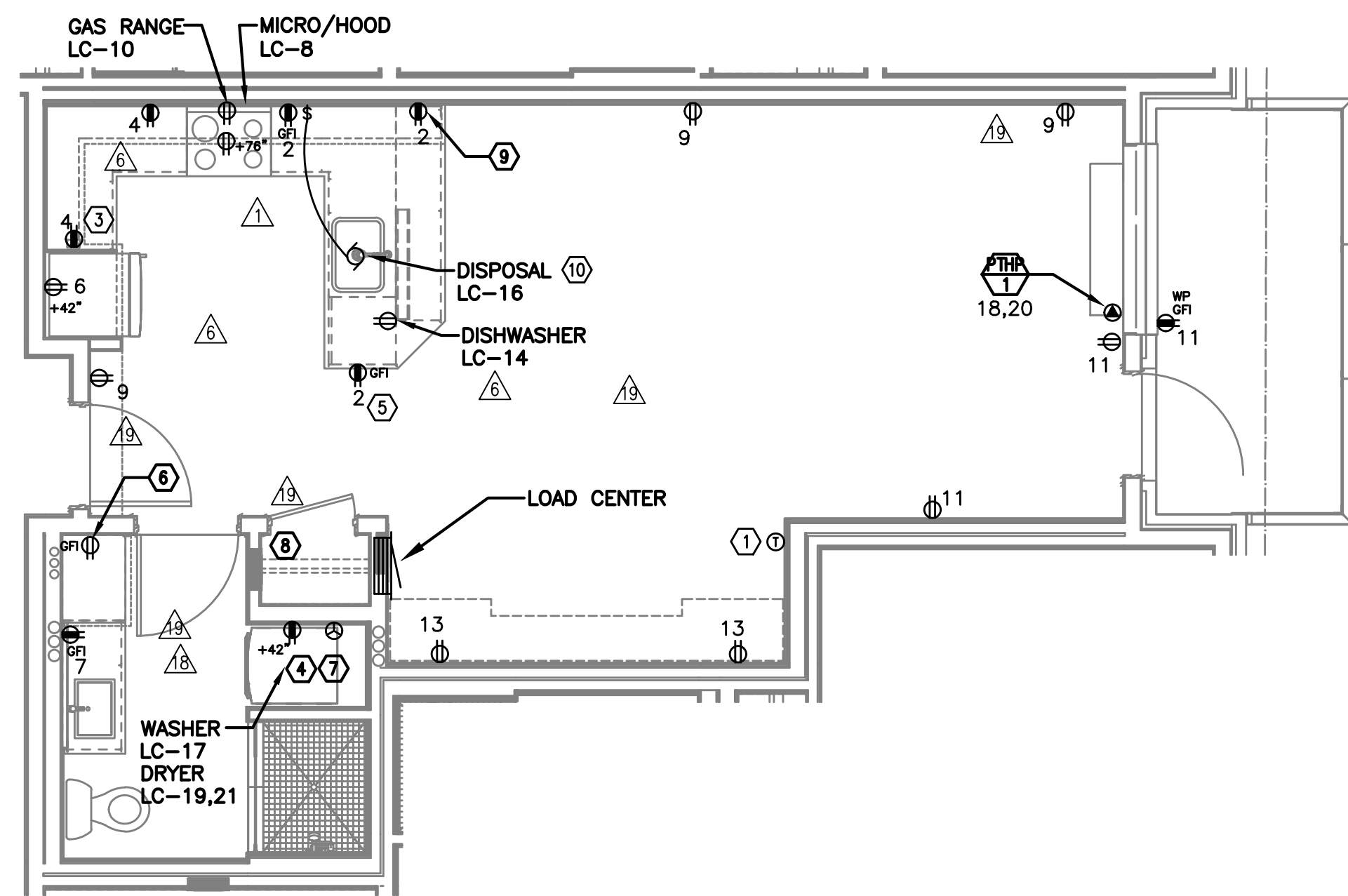
- 1 PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2 FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3 RECESSED 20A, 1P GFCI RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4 REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5 MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6 PROVIDE ONE DEDICATED GFCI RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- 8 PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- 9 PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F. AT KITCHEN ISLAND/PENINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- 10 PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.



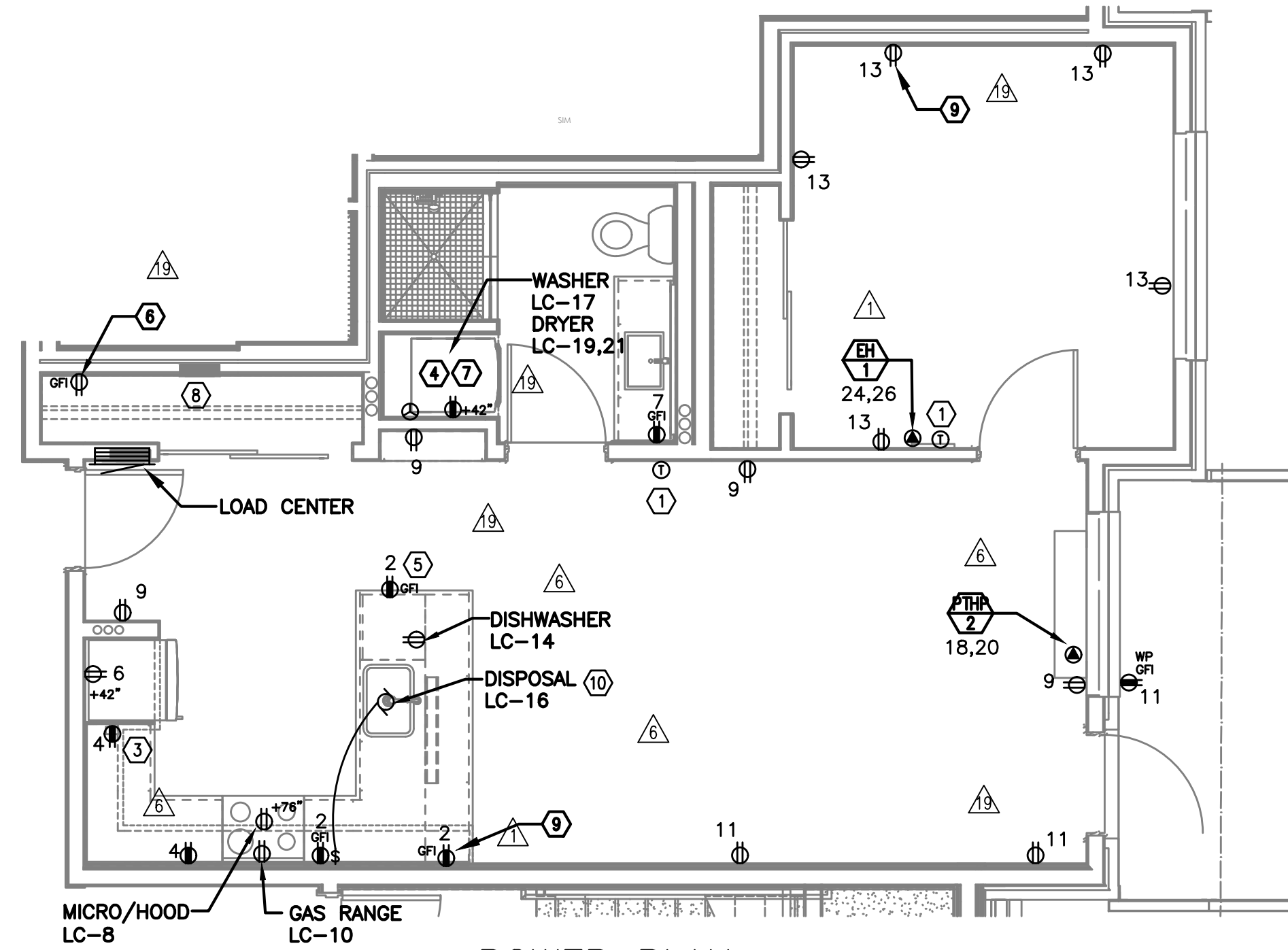
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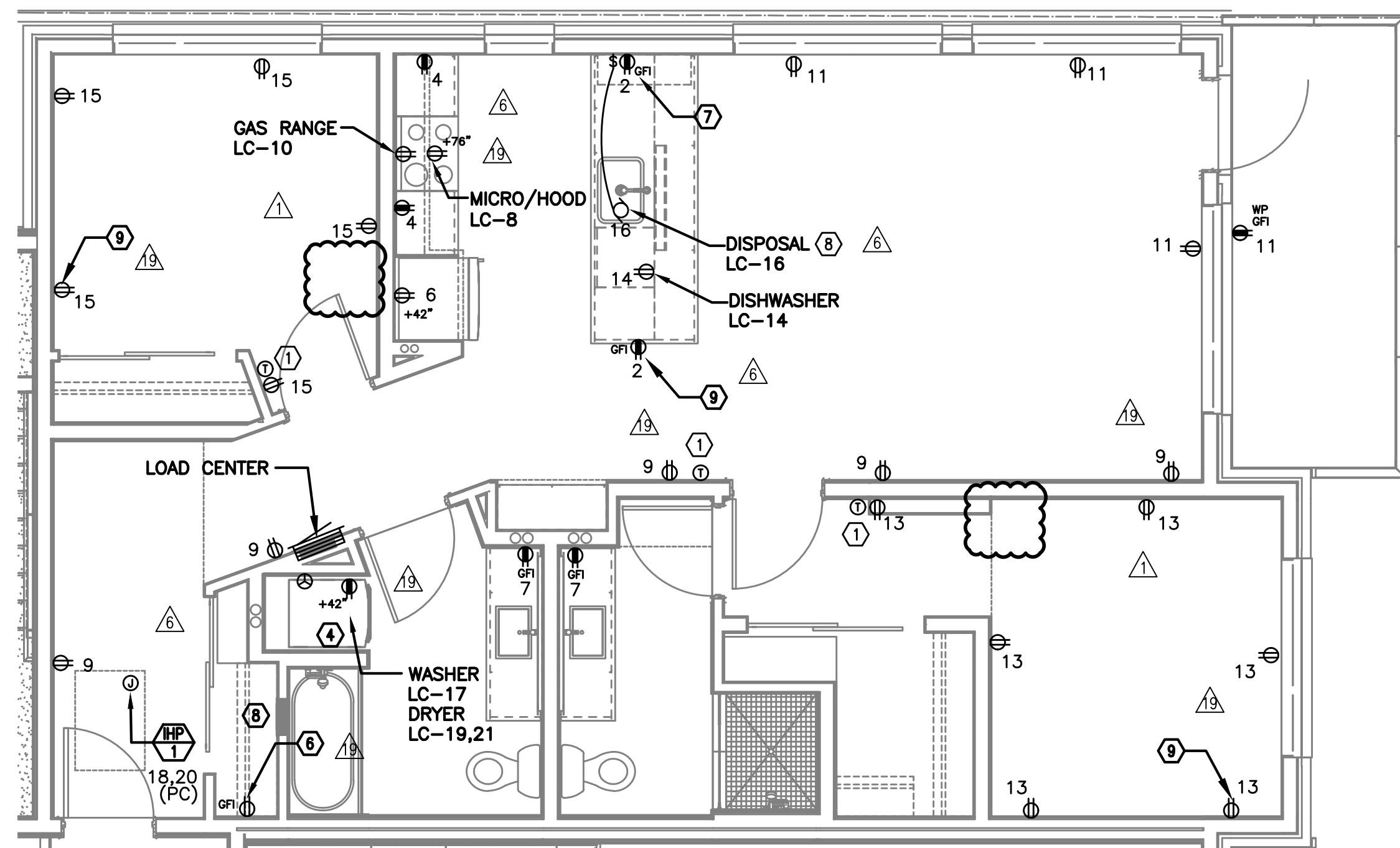
REVISIONS	
1	02.05.16 PLAN REVIEW
2	16.16.16 COORDINATION
3	06.30.17 COORDINATION
4	07.14.17 COORDINATION



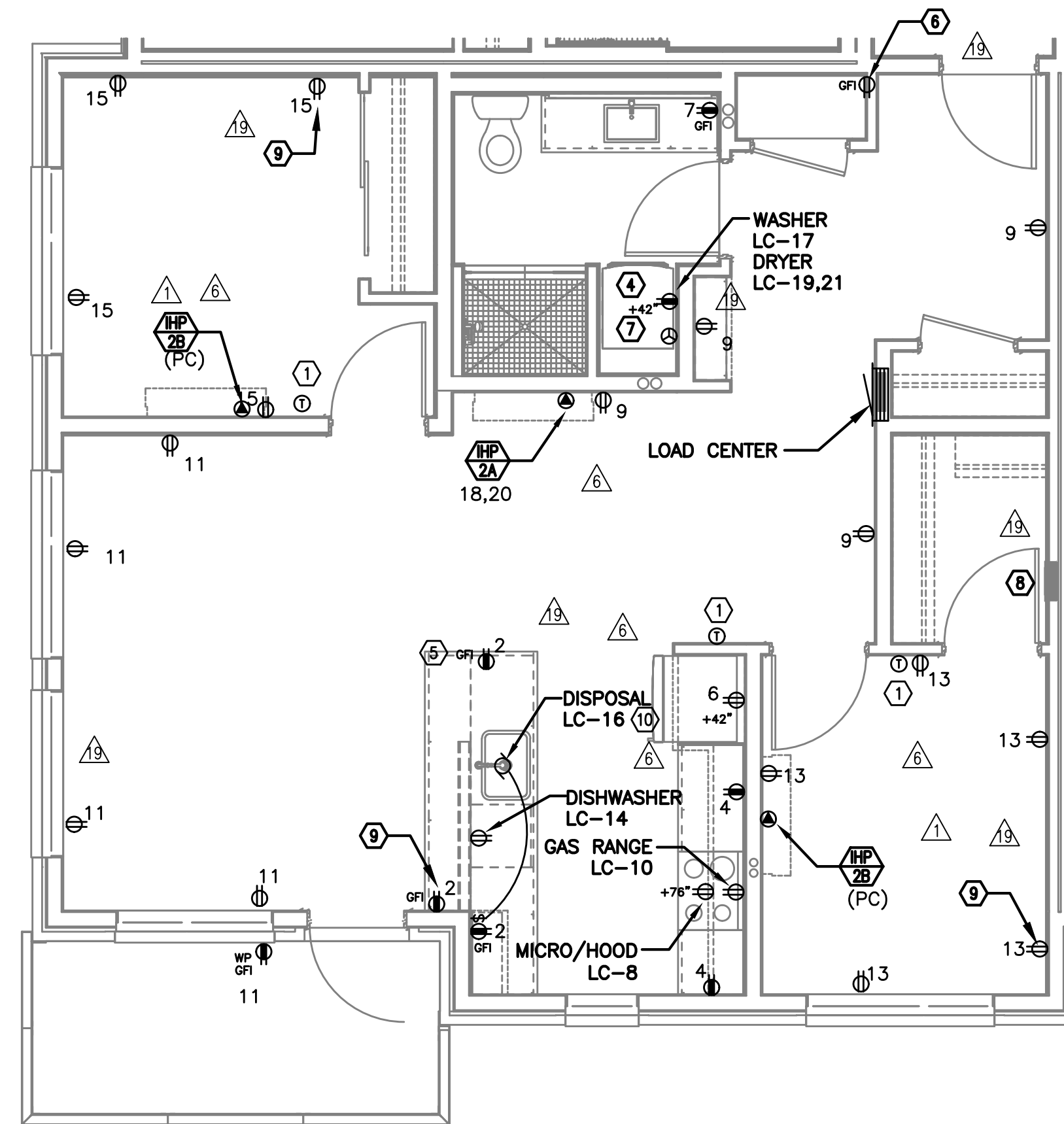
POWER PLAN
TYPICAL UNIT TYPE E
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE F
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE G
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE H
SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- 1. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- 2. REFER TO DETAILS ON SHEET E1.23 AND G2.01 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
- 3. 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.
- 4. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- 5. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

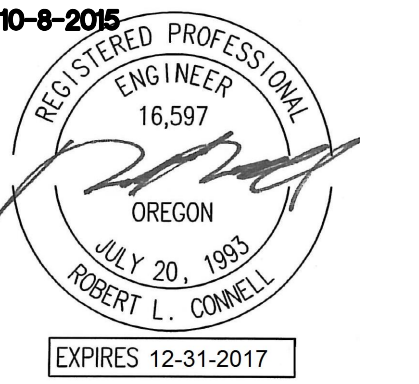
KEYED NOTES (APARTMENT UNITS):

- 1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2. FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3. RECESSED 20A, 1P GFIC RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4. REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5. MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6. PROVIDE ONE DEDICATED GFIC RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7. PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- 8. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- 9. PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F AT KITCHEN ISLAND/PENNINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- 10. PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.

**VANCOUVER AVE PHASE II
MIXED USE BUILDING**
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:
E4.12

M Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PH: (503) 234-0548
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INC. WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR



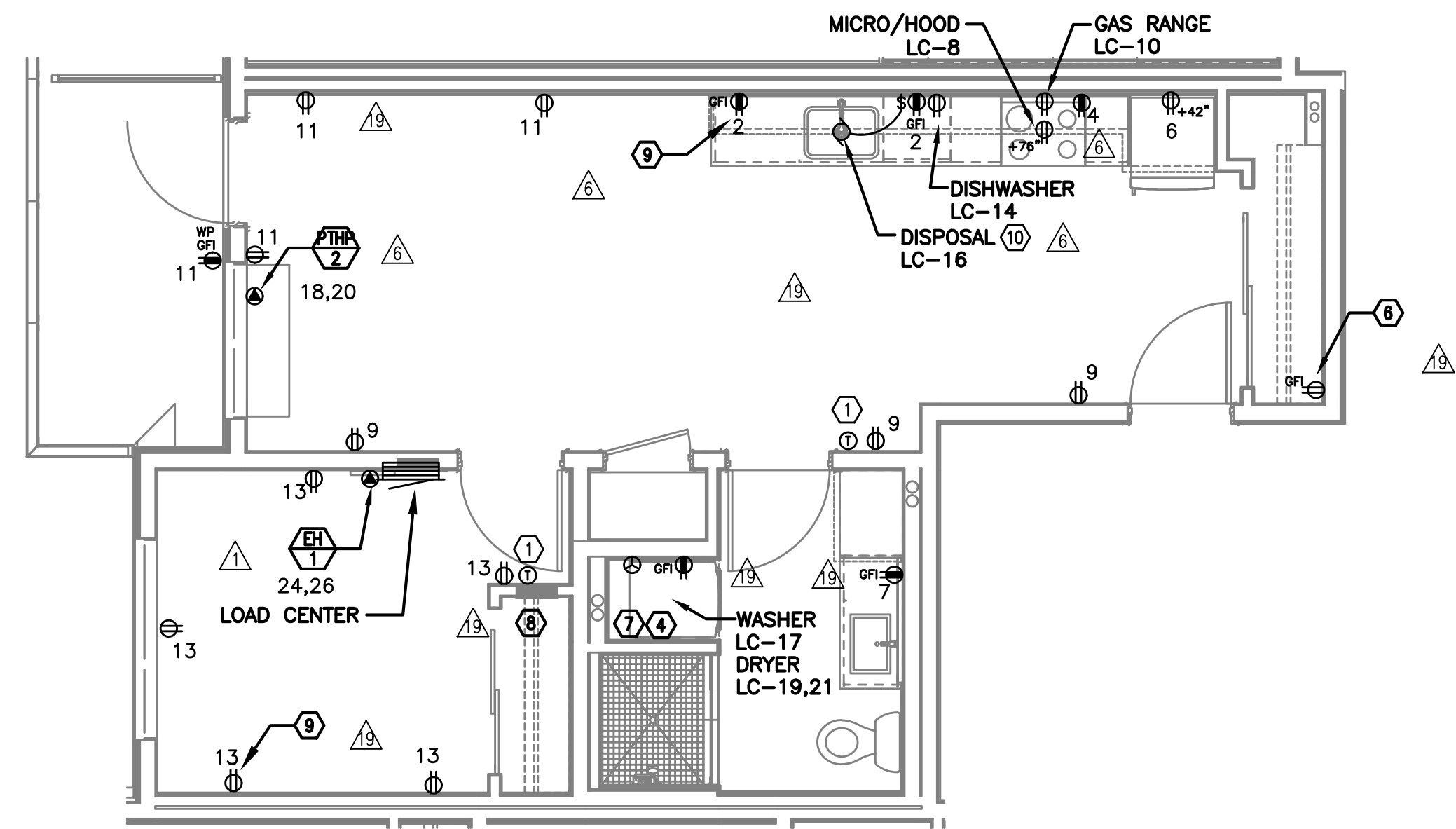
IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2014-75
DATE: 10-08-2015

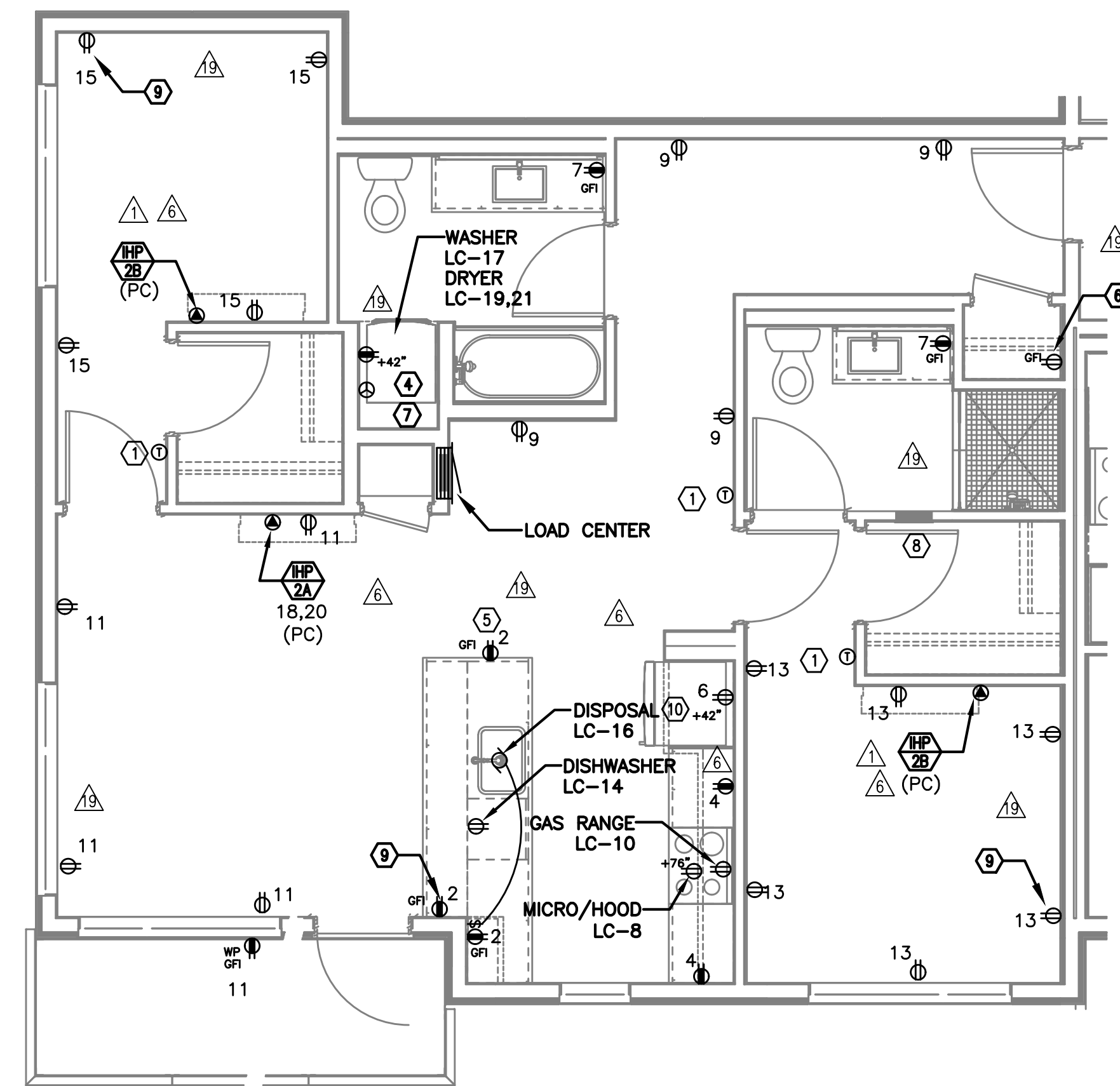
REVISIONS	
1	02.05.16 PLAN REVIEW
2	16.16.16 COORDINATION
3	06.30.17 COORDINATION
4	07.14.17 COORDINATION

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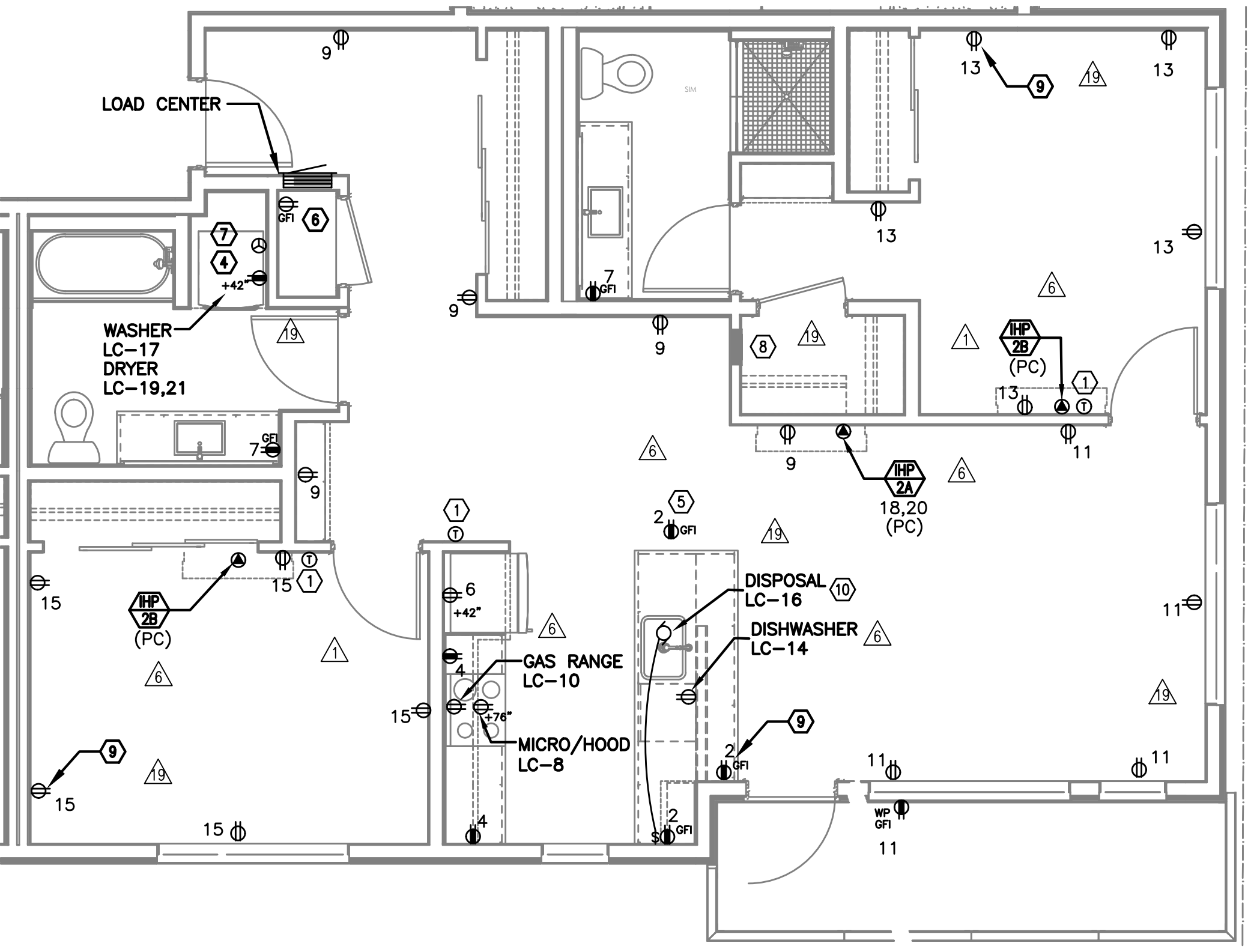
SHEET:
E4.13



POWER PLAN
TYPICAL UNIT TYPE I
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE J
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE K
SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- B. REFER TO DETAILS ON SHEET E1.23 AND G2.01 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. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

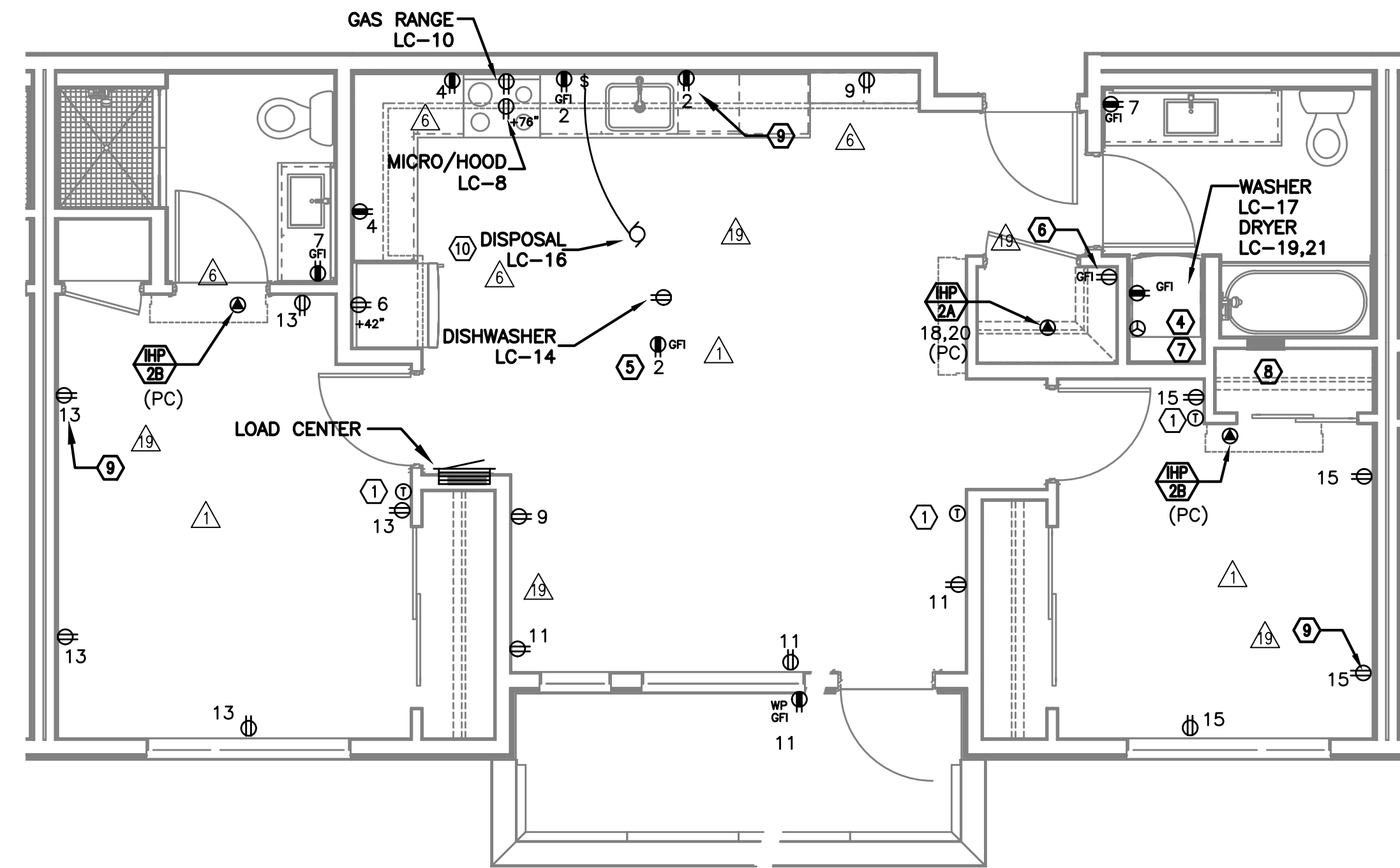
KEYED NOTES (APARTMENT UNITS):

- 1 PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2 FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3 RECESSED 20A, 1P GFCI RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4 REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5 MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6 PROVIDE ONE DEDICATED GFCI RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
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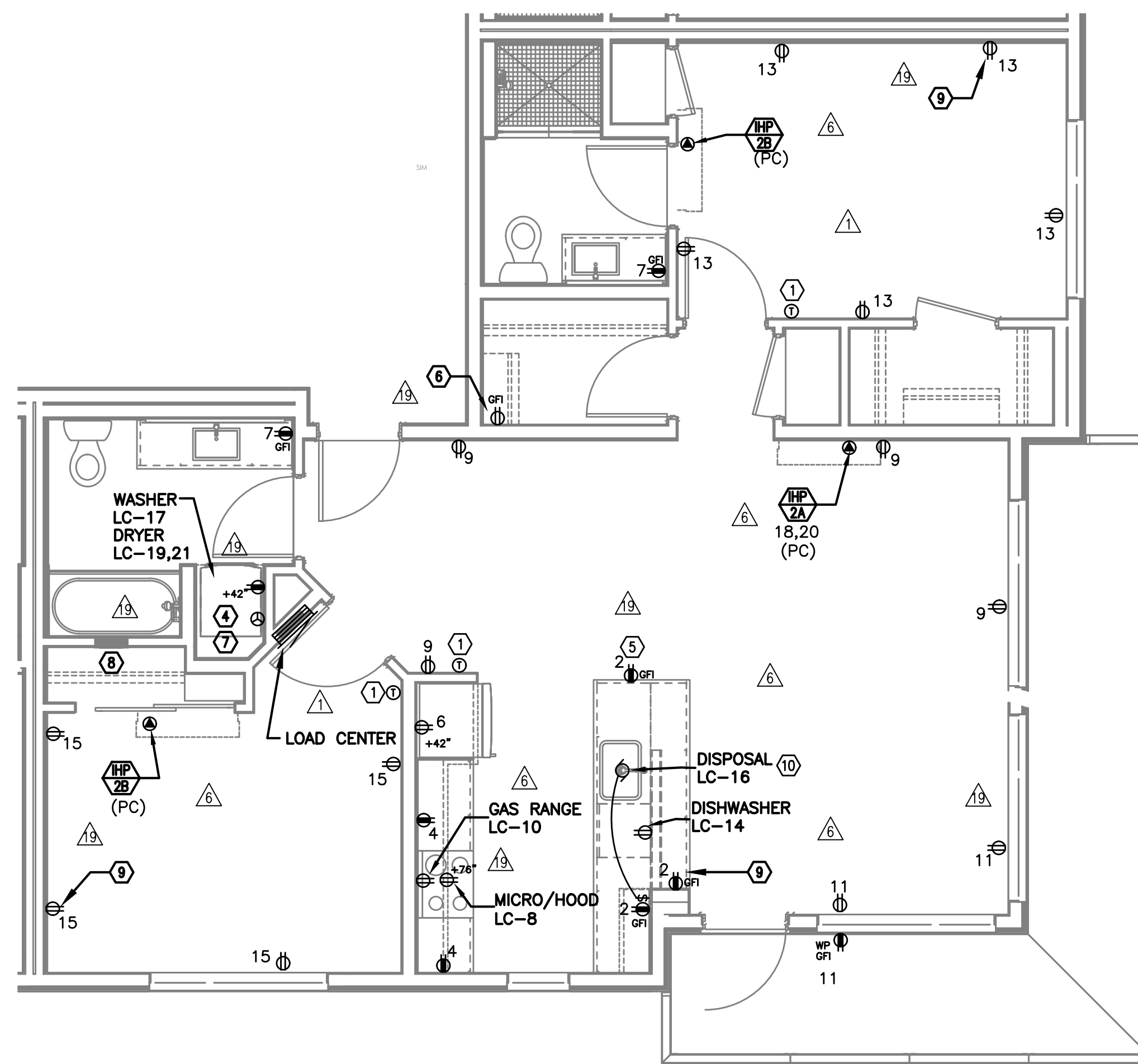
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REVISIONS

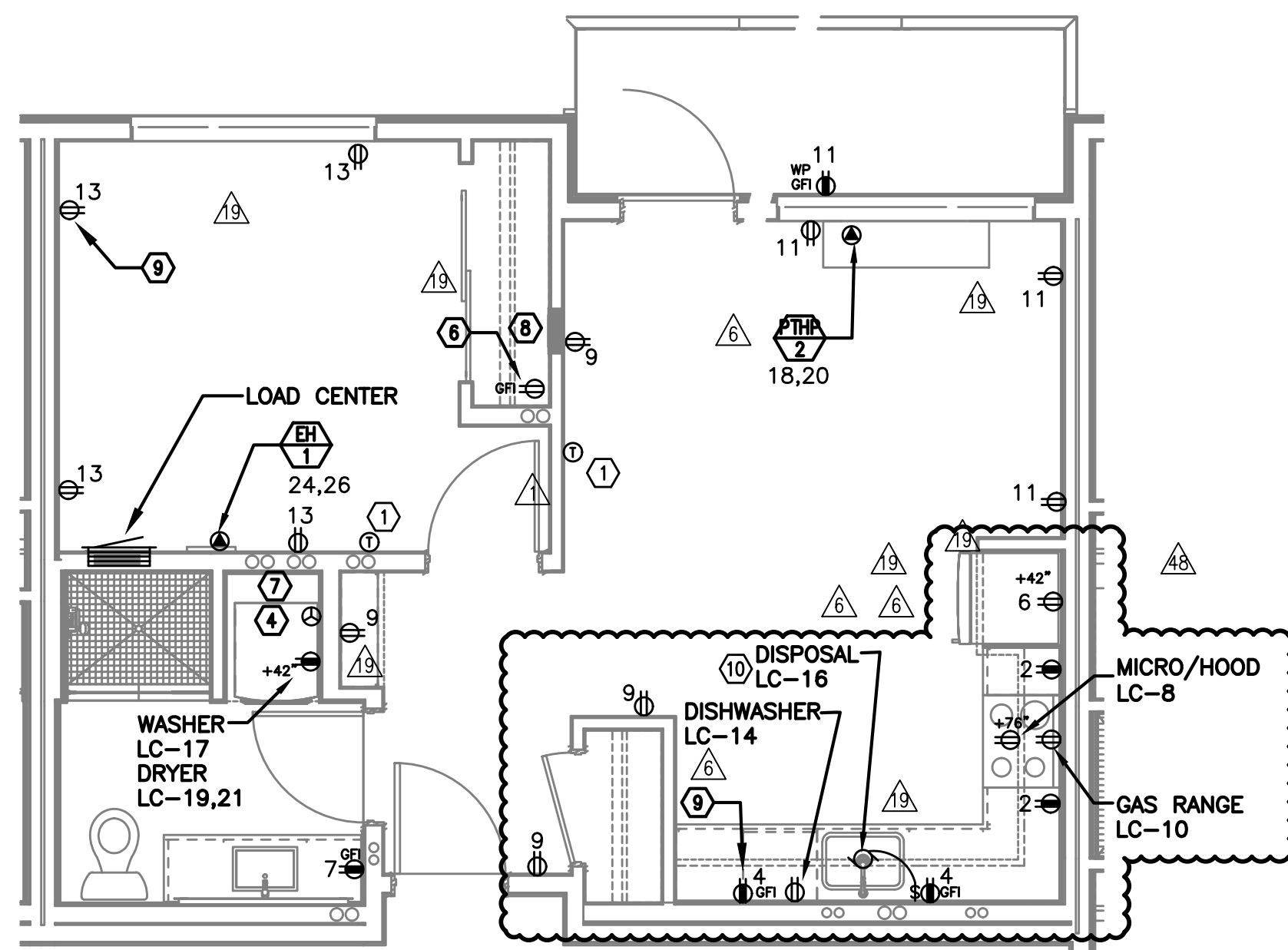
16.16.16	COORDINATION
06.30.17	COORDINATION
07.14.17	COORDINATION
11.30.18	COORDINATION



POWER PLAN
TYPICAL UNIT TYPE L
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE M
SCALE: 1/4" = 1'-0"



POWER PLAN
TYPICAL UNIT TYPE N
SCALE: 1/4" = 1'-0"

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