ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
LIGHTING	
	BOLLARD LIGHT FIXTURE
	CEILING FAN
	EMERGENCY BATTERY PACK
	REMOTE HEADS
	EXIT SIGN (SOLID FILL INDICATES FACE. ARROW INDICATES DIRECTION.)
	LIGHTING FIXTURES
	NOTE: REFER TO LIGHTING FIXTURE SCHEDULE SPECIFICATION FOR MODEL NUMBERS AND OPTIONS.
	SOLID FILL INDICATES EMERGENCY OR NIGHT EGRESS.
	EXTERIOR POLE MOUNTED HEAD (HEAD QTY INDICATED)
SWITCHES	
$	SINGLE POLE SWITCH
D $	SINGLE POLE DIMMER SWITCH
3 $	3-WAY SWITCH
4 $	4-WAY SWITCH
$	SINGLE POLE SWITCH WITH PILOT LIGHT
$$ $$$ $$$$	MULTI-GANGED SWITCH (QUANTITY SHOWN)
	OCCUPANCY SENSOR (CEILING, WALL, DIMMER)
	LIGHT SENSOR
	PHOTO CELL
	TIME CLOCK

SYMBOL	DESCRIPTION
POWER	
	TV/RECEPTACLE
	CONNECTION
CLNG	JUNCTION BOX (CEILING, WALL, FLOOR)
P	POWER POLE
	MOTOR
	240V RECEPTACLE
B	DUAL USB DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (CEILING, WALL, FLOOR)
AC	DUPLEX RECEPTACLE ABOVE COUNTER
H	HORIZONTAL DUPLEX RECEPTACLE
	EMERGENCY RECEPTACLE
	SPLIT RECEPTACLE
	GFCI RECEPTACLE
NL	LIT GFCI RECEPTACLE (VANITY)
	RECEPTACLE FOURPLEX (WALL, FLOOR)
SS	SURGE SUPPRESSION RECEPTACLE
	SINGLE RECEPTACLE (CEILING, WALL, FLOOR)
	SPECIAL RECEPTACLE (CEILING, WALL, FLOOR)
	CONTROL PANEL (TYPE DENOTED ON PLAN)
	CONDUIT
	CONDUIT BELOW GRADE
COMMUNICATIONS	
	SPEAKER
	TELEVISION OUTLET (CEILING, WALL)
CLNG	VOICE/DATA (CEILING, WALL, FLOOR)
	DATA
	VOICE
	WIRELESS ACCESS POINT
	THERMOSTAT
	DATA RACK

SYMBOL	DESCRIPTION
FIRE ALARM	
	FIRE ALARM BELL W/ STROBE
	FIRE ALARM BELL
	FIRE ALARM BUZZER W/ STROBE
	FIRE ALARM BUZZER
	FIRE ALARM CHIME W/ STROBE
	FIRE ALARM CHIME
	FIRE ALARM HORN W/ STROBE (CEILING, WALL)
	FIRE ALARM HORN (CEILING, WALL)
	FIRE ALARM STROBE (CEILING, WALL)
	FIRE ALARM SYMBOL (CEILING, WALL)
	FIRE ALARM PULL STATION SYMBOL
	FIRE ALARM SPEAKER (CEILING, WALL)
	FIRE ALARM SPEAKER W/ HORN STATION SYMBOL
	FIRE ALARM SPEAKER W/ STROBE (CEILING, WALL)
	SMOKE DETECTOR
	COMBINATION SMOKE/CO DETECTOR
	PHOTOELECTRIC DETECTOR
DIT	DIALING TERMINAL
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	DOOR HOLDER
	SMOKE FIRE DAMPER
ANNOTATIONS	
	BREAK
XX-XX	KITCHEN EQUIP
	MECHANICAL EQUIP
TYPE PANEL-CIRCUIT	PANEL/CIRCUIT
	KEY NOTE
	REVISION

SYMBOL	DESCRIPTION
SYSTEMS	
	CAMERA
	PROX READER
	CARD READER
	ELECTRIC STRIKE
	MAGNETIC LOCK
	DOOR CONTACT
	PUSHBUTTON
	KEYPAD
	WALL INTERCOM
	CHIME/STROBE
NURSE CALL	
	NURSE CALL DOME LIGHT W/ LIGHT # INDICATED (CEILING, WALL)
	NURSE CALL CODE BLUE STATION
	NURSE CALL DUTY STATION
	NURSE CALL EMERGENCY STATION
	NURSE CALL HELP STATION
	NURSE CALL MASTER STATION
	NURSE CALL PATIENT STATION
	NURSE CALL STAFF STATION
	NURSE CALL WANDERGUARD STATION

NOT ALL SYMBOLS APPEAR ON DRAWINGS

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER CIRCULATING PUMP	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	SWBD	SWITCHBOARD
A	AMPERE	DEPT	DEPARTMENT	HTG	HEATING			SYM	SYMMETRICAL
AC	ABOVE COUNTER OR AIR CONDITIONER	DET	DETAIL	HTR	HEATER			SYS	SYSTEM
		DIA	DIAMETER	HV	HIGH VOLTAGE	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH	TEL	TELEPHONE
ACLG	ABOVE CEILING	DISC	DISCONNECT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING			TEL/DATA	TELEPHONE/DATA
ADO	AUTOMATIC DOOR OPENER	DIST	DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NIC	NOT IN CONTRACT	TERM	TERMINAL
AF	AMP FRAME	DN	DOWN			NL	NIGHT LIGHT (24/7)	TL	TWIST LOCK
AFF	ABOVE FINISHED FLOOR	DPR	DAMPER	IC	INTERRUPTING CAPACITY	N.O.	NORMALLY OPEN	TR	TAMPER RESISTANT
AFG	ABOVE FINISHED GRADE	DS	SAFETY DISCONNECT SWITCH	IG	ISOLATED GROUND	NPF	NORMAL POWER FACTOR	T-STAT	THERMOSTAT
AFI	ARC FAULT CIRCUIT INTERRUPTER	DT	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT	NTS	NOT TO SCALE	TTC	TELEPHONE TERMINAL CABINET
AHU	AIR HANDLING UNIT	DWG	DRAWING	INCAND	INCANDESCENT	OH	OVERHEAD	TV	TELEVISION
AL	ALUMINUM	EC	ELECTRICAL CONTRACTOR	IR	INFRARED	OL	OVERLOADS	TVTC	TELEVISION TERMINAL CABINET
ALT	ALTERNATE	ELEC	ELECTRIC, ELECTRICAL	I/W	INTERLOCK WITH	PA	PUBLIC ADDRESS	TYP	TYPICAL
AMP	AMPERE	ELEV	ELEVATOR			PB	PULL BOX OR PUSHBUTTON		
AMPL	AMPLIFIER	EM	EMERGENCY	J-BOX	JUNCTION BOX	PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
ANNUM	ANNUNCIATOR	EMS	ENERGY MANAGEMENT SYSTEM			PED	PEDESTAL	UE	UNDERGROUND ELECTRICAL
APPROX	APPROXIMATELY	EMT	ELECTRICAL METALLIC TUBING	KV	KILOVOLT	PF	POWER FACTOR	UG	UNDERGROUND
AQ-STAT	AQUASTAT	EP	ELECTRIC PNEUMATIC	KVA	KILOVOLT-AMPERE	PH	PHASE	UH	UNIT HEATER
ARCH	ARCHITECT, ARCHITECTURAL	EQUIP	EQUIPMENT	KVAR	KILOVOLT-AMPERE REACTIVE	PIV	POST INDICATING VALVE	UT	UNDERGROUND TELEPHONE
AS	AMP SWITCH	EWC	ELECTRIC WATER COOLER	KW	KILOWATT	PNL	PANEL	UTIL	UTILITY
AT	AMP TRIP	EXIST	EXISTING	KWH	KILOWATT HOUR	PP	POWER POLE	UV	UNIT VENTILATOR OR ULTRAVIOLET
ATS	AUTOMATIC TRANSFER SWITCH	EXH	EXHAUST			PR	PAIR		
		EXP	EXPLOSION PROOF	LOC	LOCATE OR LOCATION	PRI	PRIMARY		
AUTO	AUTOMATIC			LT	LIGHT	PROJ	PROJECTION	V	VOLT
AUX	AUXILIARY	FA	FIRE ALARM	LTG	LIGHTING	PRV	POWER ROOF VENTILATOR	VA	VOLT-AMPERES
AV	AUDIO VISUAL	FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	LTNG	LIGHTNING	PT	POTENTIAL TRANSFORMER	VDT	VIDEO DISPLAY TERMINAL
AWG	AMERICAN WIRE GAUGE			LV	LOW VOLTAGE	PVC	POLYVINYL CHLORIDE (CONDUIT)	VERT	VERTICAL
		FACP	FIRE ALARM CONTROL PANEL					VFD	VARIABLE FREQUENCY DRIVE
BATT	BATTERY	FCU	FAN COIL UNIT	MAX	MAXIMUM	PWR	POWER	VOL	VOLUME
BD	BOARD	FIXT	FIXTURE	MAG.S	MAGNETIC STARTER				
BLDG	BUILDING	FLR	FLOOR	MC	MOMENTARY CONTACT	QUAN	QUANTITY	W	WATT
BMS	BUILDING MANAGEMENT SYSTEM	FLUOR	FLUORESCENT	MC	MECHANICAL CONTRACTOR			W/	WITH
		FU	FUSE	MCB	MAIN CIRCUIT BREAKER	RCPT	RECEPTACLE	WG	WIRE GUARD
		FUDS	FUSED SAFETY DISCONNECT SWITCH	MCC	MOTOR CONTROL CENTER	REQD	REQUIRED	WH	WATER HEATER
C	CONDUIT			MDC	MAIN DISTRIBUTION CENTER	RM	ROOM	W/O	WITHOUT
CAB	CABINET			MDP	MAIN DISTRIBUTION PANEL	RSC	RIGID STEEL CONDUIT	WP	WEATHERPROOF
CAT	CATALOG	GA	GAUGE	MFR	MANUFACTURER	RTU	ROOF TOP UNIT		
CATV	CABLE TELEVISION	GAL	GALLON	MFS	MAIN FUSED DISCONNECT SWITCH	SC	SURFACE CONDUIT	XFMR	TRANSFORMER
CB	CIRCUIT BREAKER	GALV	GALVANIZED	MH	MANHOLE	SEC	SECONDARY	XFR	TRANSFER
CCTV	CLOSED CIRCUIT TELEVISION	GC	GENERAL CONTRACTOR	MIC	MICROPHONE	SHT	SHEET		
CKT	CIRCUIT	GEN	GENERATOR	MIN	MINIMUM	SIM	SIMILAR		
CLG	CEILING	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MISC	MISCELLANEOUS	SIN	SOLID NEUTRAL		
COMB	COMBINATION	GFP	GROUND FAULT PROTECTOR	MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION		
CMPR	COMPRESSOR	GND	GROUND	MMS	MANUAL MOTOR STARTER	SPKR	SPEAKER		
CONN	CONNECTION	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MOA	MULTIOUTLET ASSEMBLY	SP	SPARE		
CONST	CONSTRUCTION			MSP	MOTOR STARTER PANELBOARD	SR	SURFACE RACEWAY		
CONT	CONTINUATION OR CONTINUOUS	GYP BD	GYPSUM BOARD	MSBD	MAIN SWITCHBOARD	SS	STAINLESS STEEL		
				MT	MOUNT	SSW	SELECTOR SWITCH		
CONTR	CONTRACTOR			MT.C	EMPTY CONDUIT	S/S	STOP/START PUSHBUTTONS		
CONV	CONVECTOR	HOA	HANDS-OFF-AUTOMATIC SWITCH	MTS	MANUAL TRANSFER SWITCH	STA	STATION		
CP	CIRCULATING PUMP			MTR	MOTOR, MOTORIZED	STD	STANDARD		
CRT	CATHODE-RAY TUBE	HORIZ	HORIZONTAL			SURF	SURFACE MOUNTED		
CT	CURRENT TRANSFORMER	HP	HORSEPOWER	N.C.	NORMALLY CLOSED	SW	SWITCH		
CTR	CENTER	HPF	HIGH POWER FACTOR	NEC	NATIONAL ELECTRICAL CODE				
CU	COPPER								

ELECTRICAL EQUIPMENT NAMING CONVENTION

- PANEL LP01
- EMERGENCY LIFE SAFETY PANEL ELSLP01
- EMERGENCY OPTIONAL STANDBY PANEL EOSLP01
- DISTRIBUTION PANEL DP01
- KITCHEN PANEL KP01
- POOL PANEL PP01
- DISCONNECT DS01
- ELEV DISC DV01
- ELEV DISC LIFE SAFETY ELSDV01
- ELEV DISC LEGALLY REQUIRED ELRDV01
- T — STEP DOWN TRANSFORMER (NON-UTILITY) T01, ELST01, ELRT01, EOST01
- MAIN SWITCH BOARD MSB01
- METER BANK (WITH TAP BOX OR MAIN SWITCH) MB01
- AUTOMATIC TRANSFER SWITCH ATS01, ELSATS01, ELRATS01, EOSATS01
- MANUAL TRANSFER SWITCH MTS01, ELSMTS01, ELRMTS01

STANDARD IDENTIFICATION RULES

- 120/208V = LP
- 277/480V = HP
- FLOOR OR LEVEL, THEN COUNT DESIGNATION = LP01, LP11, LP12, ETC.
- BASEMENT OR LOWER LEVEL OF 9 STORY OR LESS = 01
- FIRST FLOOR OR FIRST LEVEL OF 10 PLUS STORIES = 011
- WING OR BUILDING DESIGNATION = A01, B01, ETC.
- ELS = LIFE SAFETY (NEC 700)
- ELR = LEGALLY REQUIRED (NEC 701)
- EOS = OPTIONAL STANDBY (NEC 702)

LIGHT FIXTURE SCHEDULE

IDENT	FIXTURE TYPE	MOUNTING	LAMPS	LENS, LOUVER, ETC:	MANUFACTURER'S CATALOG NUMBER	NOTES
U1	6" DISK LIGHT (HALLWAY)	RECESSED	16W LED 1235 LUMENS 2700K	WHITE	HALO - SMD6 OR APPROVED EQUAL	
U2	20" BEDROOM	SURFACE	(3) 10W LED 2700K	WESTERN BRONZE	ASHLAND - QF12025WT OR APPROVED EQUAL	
U3	CHANDELIER (DINING)	CEILING DINING	(3) 8W LED 2700K	OIL RUBBED BRONZE	MAXIM - DEVON - 20033S OR APPROVED EQUAL	
U4	24" UNIT CLOSET LIGHT	CEILING	17W 1224 LUMENS 4000K	WHITE	LITHONIA: FMMCL24 830 PIR OR APPROVED EQUAL	
U5	4" PENDANT (ISLAND)	SURFACE	(1) 8W LED 2700K	OIL RUBBED BRONZE	MAXIM - DEVON - 90030S OR APPROVED EQUAL	
U6	28" VANITY (BATHROOM)	SURFACE	(4) 8W LED 2700K	BRONZE	QCORUM - LANCASTER - 5207-4-86 OR APPROVED EQUAL	
U7	UNDERCABINET (KITCHEN)	SURFACE	1.8W PER FOOT LED, 3000K	LED TAPE LIGHT WHITE	KICHLER - 4T1100S30WH 4TD 12V DIMMABLE 40W POWER SUPPLY OR APPROVED EQUAL	
U8	NOT USED					
U9	HEAT LAMP (BATHROOM)	RECESSED	250W	WHITE	BROAN - MODEL 161 OR APPROVED EQUAL	
B1	6" DISK LIGHT (HALLWAY)	RECESSED	16W LED 1235 LUMENS 3000K	WHITE	HALO - SMD6 OR APPROVED EQUAL	
B2	SEMI FLUSH DRUM	CEILING LIVING ROOM	(6) 10W 3000K	MARCADO BLACK	QCOZZL - BRO1720MK OR APPROVED EQUAL	
B3	4" DOWNLIGHT (CORRIDOR)	RECESSED	10W LED 600 LUMENS 2700K	WHITE	HALO- SMD6 OR APPROVED EQUAL	
B4	20" DECORATIVE (CORRIDOR)	SEMI FLUSH	(5) 10W 3000K	WESTERN BRONZE	QUORZZL - SLR1720 OR APPROVED EQUAL	
B5	12" WALL SCONCE (UNIT SCONCE)	WALL	8W LED 3000K	OLDE BRONZE	KICHLER - HENDRIK 50765OZ OR APPROVED EQUAL	
B6	24" PENDANT (LOBBY)	SURFACE	50W 3000K 3685 LUMENS	TBD	LIGHTOLOGY - GRACE CHANDELIER #TLCR13004 OR APPROVED EQUAL	7
B6A	36" PENDANT (LOBBY)	SURFACE	50W 3000K 3685 LUMENS	TBD	LIGHTOLOGY - GRACE CHANDELIER #TLCR13004 OR APPROVED EQUAL	7
B6B	48" PENDANT (LOBBY)	SURFACE	50W 3000K 3685 LUMENS	TBD	LIGHTOLOGY - GRACE CHANDELIER #TLCR13004 OR APPROVED EQUAL	7
B7	6" DOWNLIGHT (LOBBY)	RECESSED	28W 3000K 2500 LUMENS	WHITE	HALO- HC6 SERIES OR APPROVED EQUAL	
B8	40" PENDANT (GAMEROOM)	SURFACE	(6) 10W 3000K	OLDE BRONZE	KICHLER - TRIAD 42548 OR APPROVED EQUAL	7
B8A	12" PENDANT (GAMEROOM)	SURFACE	(1) 10W 3000K	OLDE BRONZE	KITCHLER - TRIAD 42549OZ OR APPROVED EQUAL	7
B9	48" PENDANT CLUBROOM)	SURFACE	(12) 5W LED	GOLD ORGANZA	LIGHTOLOGY - GHOST CHANDELIER ILEX24 OR APPROVED EQUAL	7
B10	23" VANITY (BATHROOM)	WALL	(3) 8W LED 3000K	VINTAGE BRONZE	MINKA LAVERY: OVERLAND PARK-6963-284 OR APPROVED EQUAL	
EB1	12" EXTERIOR SCONCE UNIT DECK	WALL	8W LED 4000K	BROWN OIL RUBBED FINISH	MANHATTAN 2230OZ OR APPROVED EQUAL	
EB2	15" EXTERIOR SCONCE (MAIN ENTRES)	WALL	8W LED 4000K	BROWN OIL RUBBED FINISH	MANHATTAN 2234 OR APPROVED EQUAL	
EB3	19" EXTERIOR SCONCE (RETAIL)	WALL	8W LED 4000K	BROWN OIL RUBBED FINISH	MANHATTAN 2235 OR APPROVED EQUAL	
EB4	6" DOWNLIGHT (EXTERIOR)	RECESSED	16W LED 1235 LUMENS 4000K	WHITE	HALO - SMD6 OR APPROVED EQUAL	
EB5	EXTERIOR WALLPACK	SURFACE	81W 7119 LUM 4000K	BRONZE	LUMARK: XTORSB-W OR APPROVED EQUAL	
EB6	EXTERIOR BOLLARD	SURFACE	30W 1305 LUM 4000K	BRONZE	TECH :D: T893LED-4230UNI12XXBZ	9,10
EB7	FLAG POLE	KNUCKEL W/ THREADED PIPE	83W 4000 LUM 4000K	DARK BRONZE	LUMARK: NFFLD-S-C15-D-UNV-33-KNC-BZ OR APPROVED EQUAL	
C	DOWNLIGHT (MAILBOX)	RECESSED	4000 LUM	WHITE	SUPERBRIGHTLEDS: MRLF-1XW-M OR APPROVED EQUAL	
E	EXIT (SINGLE FACE)	SURFACE CEILING WALL	4000K	WHITE FINISH & RED LETTERS	EATON: APXTR OR APPROVED EQUAL	10
E1	EXIT (DOUBLE FACE)	SURFACE CEILING WALL	LED INCLUDED	WHITE FINISH & RED LETTERS	EATON: APXTR OR APPROVED EQUAL	10
EM2	EMERGENCY LIGHT (BUG EYES)	WALL	LED INCLUDED	WHITE	EATON: SEL25 OR APPROVED EQUAL	6
H	4' LED STRIP (GARAGE)	SURFACE CEILING	36W 5000 LUM 3000K	WHITE	METALUX : ST SERIES OR APPROVED EQUAL	11
J-L	NOT USED					
M	STAIR LIGHT	SURFACE WALL	54W 6000 LUM 3000K	WHITE FINISH & ACRYLIC LENS	METALUX LIGHTING: PDR102170- 6SWLED-60IR_LW UNV LS50-CIR-SVPD1-U OR APPROVED EQUAL	3
N	48" ELEVATOR PIT	SURFACE WALL	52W 4000 LUM 3000K	WHITE FINISH, RIBBED FROSTED LENS	METALUX: 4VT3-L05-4-G-UNV-LE40-CDI-U OR APPROVED EQUAL	8

GENERAL NOTES:

A. NOT ALL FIXTURES IDENTIFIED IN SCHEDULE MAY BE SHOWN ON PLAN.
B. CONFIRM FIXTURE FINISHES WITH ARCHITECT PRIOR TO SHOP DRAWING SUBMITTAL.
C. ALL ENERGY STAR LIGHTING FIXTURES SHALL BE ENERGY STAR RATED AND LABELED. DO NOT REMOVE LABELS ON FIXTURES.
D. EQUAL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH LAMP & PHOTOMETRICS TO MATCH THOSE SPECIFIED.
E. COORDINATE ALL RECESSED LIGHTING ASSEMBLIES WITH CEILING TYPE. PROVIDE FLANGE KITS AS REQUIRED.
F. ALL LED LAMP WATTS & LUMENS ARE LISTED BASED ON DESIGN REQUIREMENTS.
G. ALL LAMPS SHALL BE LED UNLESS SPECIFICALLY NOTED OTHERWISE.
H. ASSEMBLIES LISTED WITH MEDIUM BASE SOCKETS SHALL BE PROVIDED WITH A19-SERIES LED LAMPS CREE OR EQUAL.
I. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LAMPS FOR EACH LIGHTING ASSEMBLY AS SCHEDULED AND SPECIFIED.
J. CONTRACTOR SHALL PROVIDE DIMMERS FOR 0-10 VOLT DIMMING FOR LED LAMPS PROVIDED.
K. ALL LED LAMPS SHALL BE PROVIDED 0-10 VOLT DIMMING CAPABILITIES.
L. ALL LED LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH INDIVIDUAL FIELD REPLACEABLE COMPONENTS.

SPECIFIC NOTES:

1. INSTALL CENTER BASKET PERPENDICULAR TO CORRIDOR WALLS, WHEN LOCATED IN CORRIDORS.
2. CONNECT TO NON-SWITCHED EMERGENCY LIGHTING CIRCUIT.
3. PROVIDE WITH INTEGRAL OCCUPANCY SENSOR TO REDUCE LIGHT TO MINIMUM WHEN UNOCCUPIED.
4. PROVIDE CONNECTION TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING NORMAL LIGHTING AREA.
5. PROVIDE ASSEMBLY MOUNTED NO LOWER THAN 80" AFF TO BOTTOM OF ASSEMBLY. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
6. PROVIDE ASSEMBLY FOR 1.5 HOUR MINIMUM OPERATION FOR LOAD SERVED.
7. VERIFY EXACT PENDANT LENGTH WITH ARCHITECT PRIOR TO ORDERING.
8. PROVIDE ASSEMBLY WALL MOUNTED WHEN LOCATED IN ELEVATOR PIT OR CAR WASH AREA.
9. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
10. PROVIDE ANCHOR BOLT MOUNTING TO CONCRETE BASE.
11. PROVIDE ASSEMBLY MOUNTED WITH BOTTOM OF ASSEMBLY FLUSH WITH BOTTOM OF BEAM.

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ELECTRICAL DRAWINGS SCHEDULE

SHEET	DESCRIPTION
E0.0	ELECTRICAL TITLE SHEET
E0.1	ELECTRICAL SITE PLAN
E1.0A	LOWER LEVEL LIGHTING PLAN AREA A
E1.0B	LOWER LEVEL LIGHTING PLAN AREA B
E1.1A	LEVEL ONE LIGHTING PLAN AREA A
E1.1B	LEVEL ONE LIGHTING PLAN AREA B
E1.2A	LEVEL TWO LIGHTING PLAN AREA A
E1.2B	LEVEL TWO LIGHTING PLAN AREA B
E2.0A	LOWER LEVEL POWER & SYSTEMS PLAN AREA A
E2.0B	LOWER LEVEL POWER & SYSTEMS PLAN AREA B
E2.1A	LEVEL ONE POWER & SYSTEMS PLAN AREA A
E2.1B	LEVEL ONE POWER & SYSTEMS PLAN AREA B
E2.2A	LEVEL TWO POWER & SYSTEMS PLAN AREA A
E2.2B	LEVEL TWO POWER & SYSTEMS PLAN AREA B
E3.0	ELECTRICAL UNITS
E3.1	ELECTRICAL UNITS
E3.2	ELECTRICAL UNITS
E4.0	ELECTRICAL RISER
E5.0	ELECTRICAL PANEL SCHEDULES
E5.1	ELECTRICAL PANEL SCHEDULES
ME1.0	MECHANICAL EQUIPMENT SCHEDULES
ME1.1	MECHANICAL EQUIPMENT SCHEDULES

Separate electrical permit is required with Washington State Department of Labor & Industries. https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections or Licensing information: Call 1-800-647-0982

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RICHARD D. BECKER — STATE OF WASHINGTON — 22028534 — REGISTERED PROFESSIONAL ENGINEER

Signature

Richard D. Becker
Typed or Printed Name

Electrical — Discipline
04/28/23 — Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

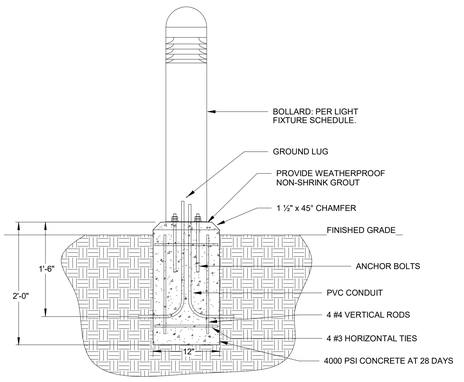
DJL — DRAWN BY
JLA — CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL TITLE SHEET

E0.0

6/22/2023 11:20:33 AM



2 BOLLARD DETAIL
NOT TO SCALE

GENERAL ELECTRICAL SITE NOTES

A. OBTAIN POWER FROM PANEL LP01, UNLESS NOTED OTHERWISE.

B. PROVIDE CONTROL OF EXTERIOR LIGHTING VIA PHOTOCELL & TIME CLOCK. REFER TO SPECIFICATIONS. VERIFY LOCATION ON SITE. PROVIDE CONTACTOR AS REQUIRED FOR ALL EXTERIOR LIGHTING CIRCUITS.

C. EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE INDICATED ON THE LIGHTING PLANS.

◇ SPECIFIC ELECTRICAL SITE NOTES

1. EXISTING UTILITY TRANSFORMER CONCRETE PAD & CONDUITS. INSTALL PER LOCAL UTILITY REQUIREMENTS. REFER TO ELECTRICAL RISER DIAGRAM. FIELD VERIFY ALL EXISTING REQUIREMENTS.
2. PROVIDE 120 VOLT, 20 AMP CONNECTION TO BATTERY CHARGER FROM PANEL EOSLP01. PROVIDE 3/4"PVC,2#10 UNDERGROUND TO GENERATOR ASSEMBLY, STUB UP THROUGH FOUNDATION, EXTEND TO CHARGER & MAKE FINAL CONNECTIONS VIA SEALTIGHT CONDUIT.
3. PROVIDE 120 VOLT, 30 AMP CONNECTION TO WATER JACKET HEATER FROM PANEL EOSLP01. PROVIDE 3/4"PVC,2#8 UNDERGROUND TO GENERATOR ASSEMBLY, STUB UP THROUGH FOUNDATION, EXTEND TO HEATER & MAKE FINAL CONNECTIONS VIA SEALTIGHT CONDUIT.
4. PROVIDE 120 VOLT, 20 AMP CONNECTION TO CONTROL PANEL FROM PANEL EOSLP01. PROVIDE 3/4"PVC,2#10 UNDERGROUND TO GENERATOR ASSEMBLY, STUB UP THROUGH FOUNDATION, EXTEND TO CONTROL PANEL & MAKE FINAL CONNECTIONS VIA SEALTIGHT CONDUIT.
5. PROVIDE SEPARATE 1" EMPTY PVC CONDUIT FROM EACH ATS TO GENERATOR CONTROL PANEL. PROVIDE ADDITIONAL 1" EMPTY PVC CONDUIT FROM EACH BUILDING REMOTE GENERATOR ANNUNCIATOR PANEL TO CONTROL PANEL FOR REMOTE ANNUNCIATOR CONNECTIONS. ROUTE UNDERGROUND TO GENERATOR ASSEMBLY, STUB UP THROUGH FOUNDATION, EXTEND TO CONTROL PANEL & MAKE FINAL CONNECTIONS VIA SEALTIGHT CONDUIT.
6. SEE FLOOR PLANS FOR EMERGENCY GENERATOR MANUAL TRANSFER SWITCH LOCATION. REFER TO THE ELECTRICAL RISER DIAGRAM.
7. PROVIDE 20A CIRCUIT FROM PANEL LP01 TO GAS FIRE PIT ELECTRONIC IGNITION, 60 MINUTE TIMER SWITCH & RED (EPO) MUSHROOM SWITCH. COORDINATE EXACT LOCATION & REQUIREMENTS WITH ARCHITECT/FIRE PIT MANUFACTURER.
8. EXISTING BROWNSTONE PHASE 1 UTILITY TRANSFORMER.
9. VERIFY LOCATION OF FLAG LIGHTS. WITH ARCHITECT/LANDSCAPE.

1 SITE PLAN
1" = 20'-0"

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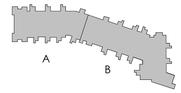

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RICHARD D. BECKER STATE OF WASHINGTON 22028534 REGISTERED PROFESSIONAL ENGINEER

Signature

Richard D. Becker
Typed or Printed Name

Electrical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

707 39TH AVENUE SE
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PRMU20230881

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WESLEY BRADLEY PARK 2
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ELECTRICAL SITE PLAN

E0.1

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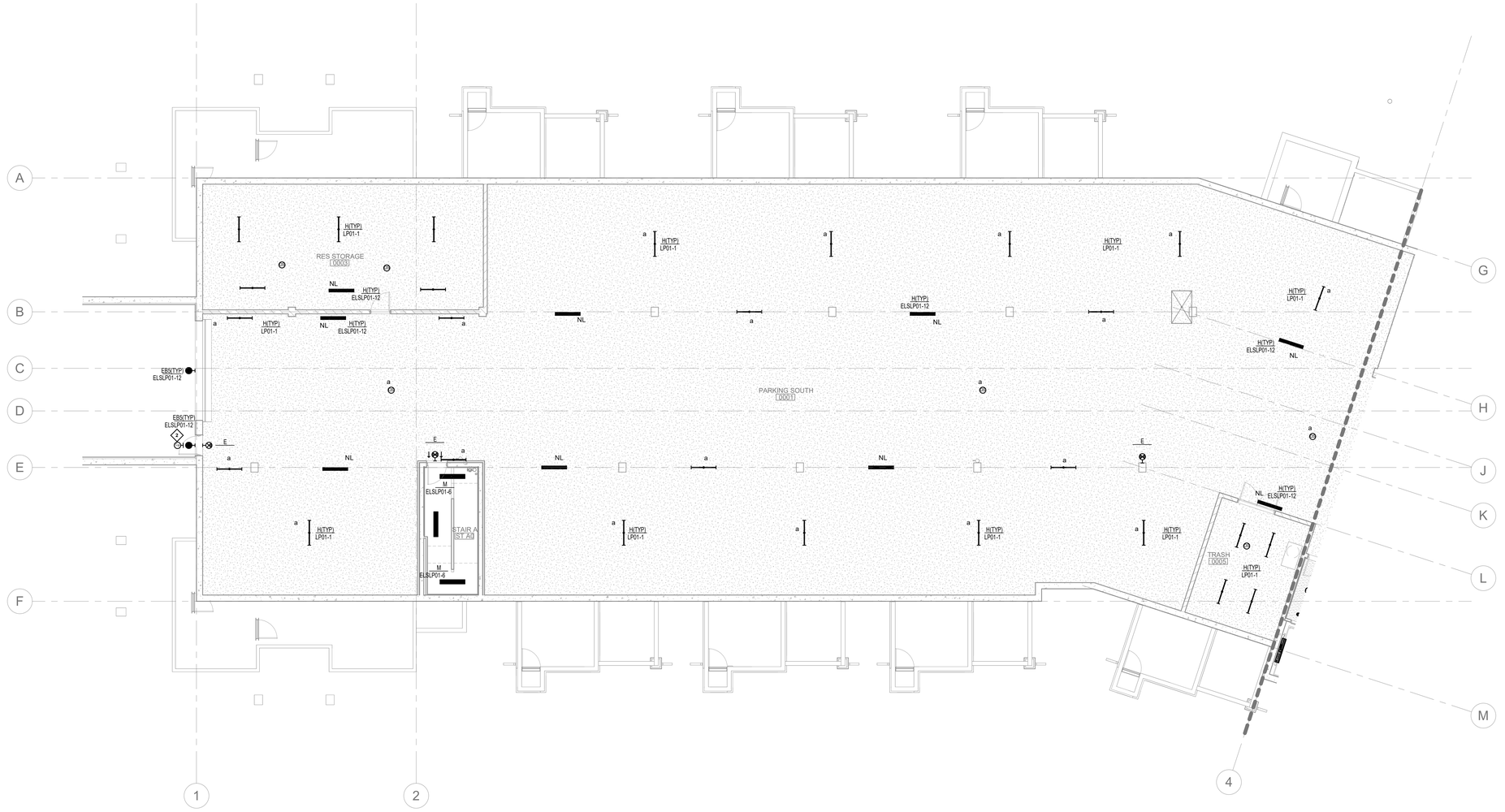
GENERAL ELECTRICAL LIGHTING NOTES
A. VERIFY LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
B. PROVIDE TIMECLOCK FOR CORRIDOR LIGHTING CONTROL. LOCATE ADJACENT TO PANEL LP11. VERIFY WITH OWNER CORRIDOR LIGHTING TIME SEQUENCE.

◇ SPECIFIC ELECTRICAL LIGHTING NOTES
1. COORDINATE ELEVATOR SWITCHED PIT LIGHTS/SWITCHES & RECEPTACLES WITH ELEVATOR SUPPLIER. COORDINATE ELEVATOR CODE CIRCUITS WITH ELEVATOR INSPECTOR & MANUFACTURER.
2. PROVIDE CONTACTOR & PHOTO-CELL FOR EXTERIOR LIGHTING CONTROL. VERIFY CIRCUITS ON PLANS.
3. PROVIDE A 6 POLE CONTACTOR FOR CORRIDOR LIGHTING.



1 LOWER LEVEL LIGHTING PLAN AREA A
1/8" = 1'-0"

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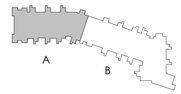

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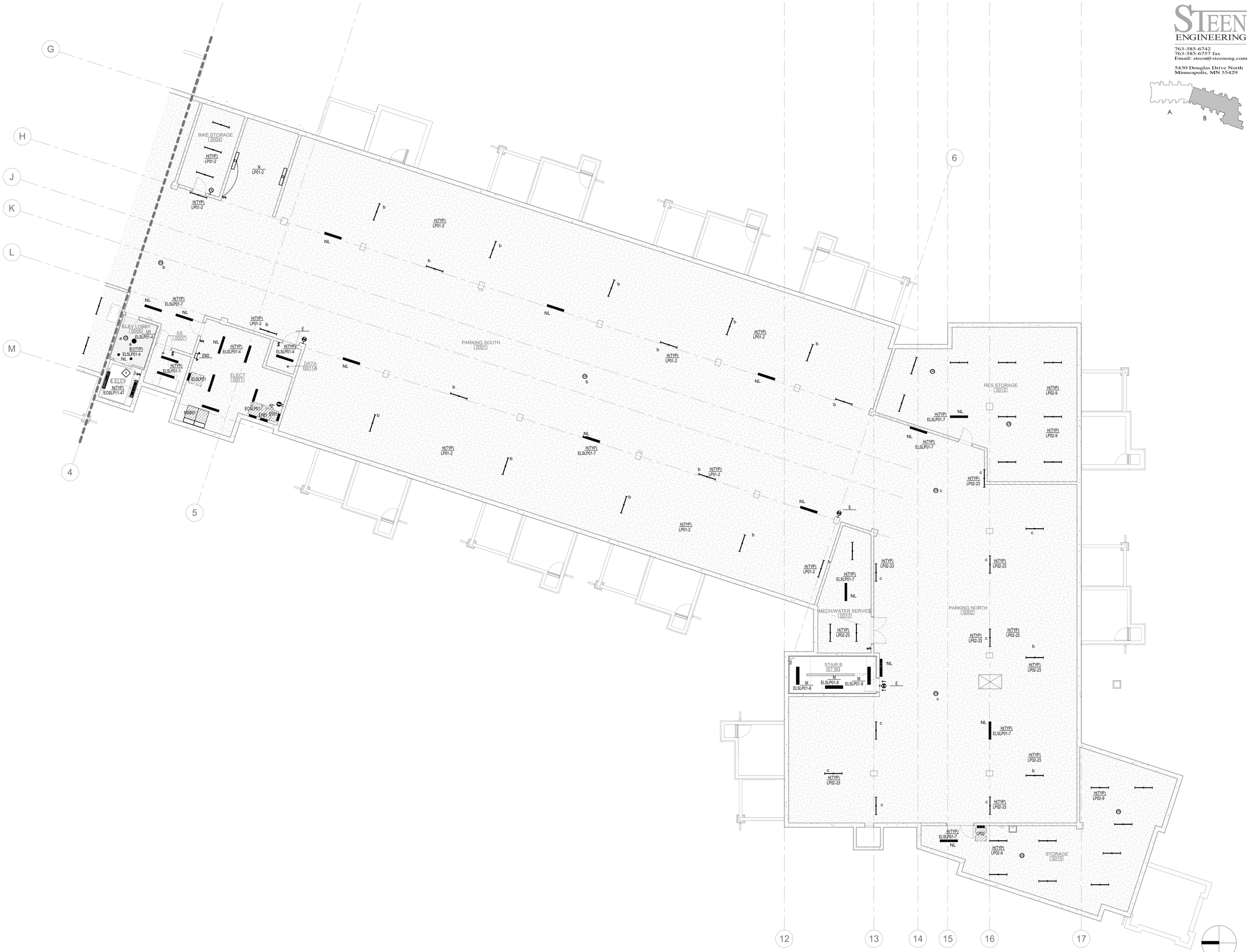
LOWER LEVEL LIGHTING
PLAN AREA A

E1.0A



1 LOWER LEVEL LIGHTING PLAN AREA B
1/8" = 1'-0"

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LOWER LEVEL LIGHTING
PLAN AREA B

E1.0B

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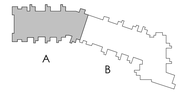

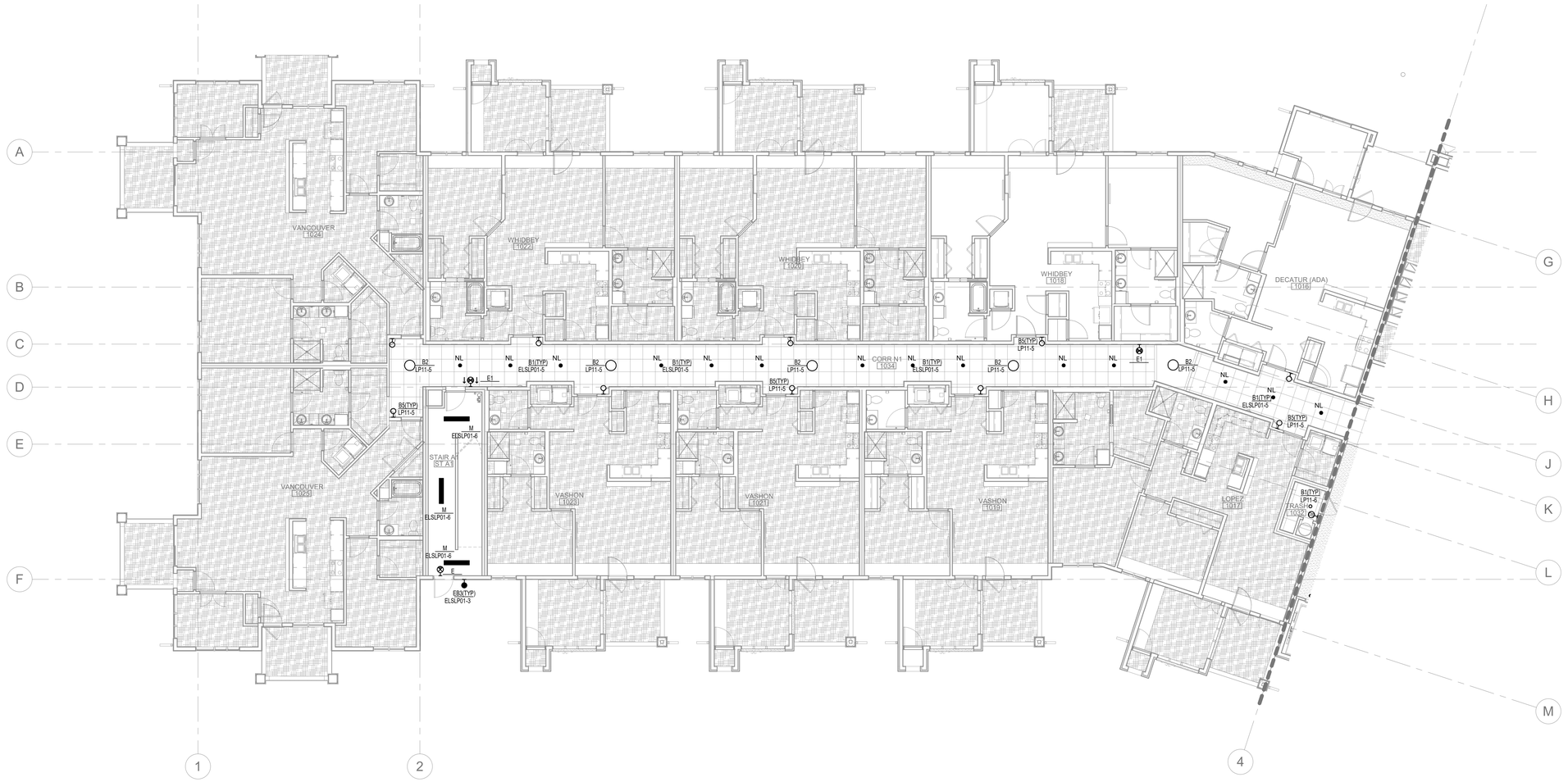

1 LEVEL 1 LIGHTING PLAN AREA A
1/8" = 1'-0"

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LEVEL ONE LIGHTING
PLAN AREA A

E1.1A

NORTH

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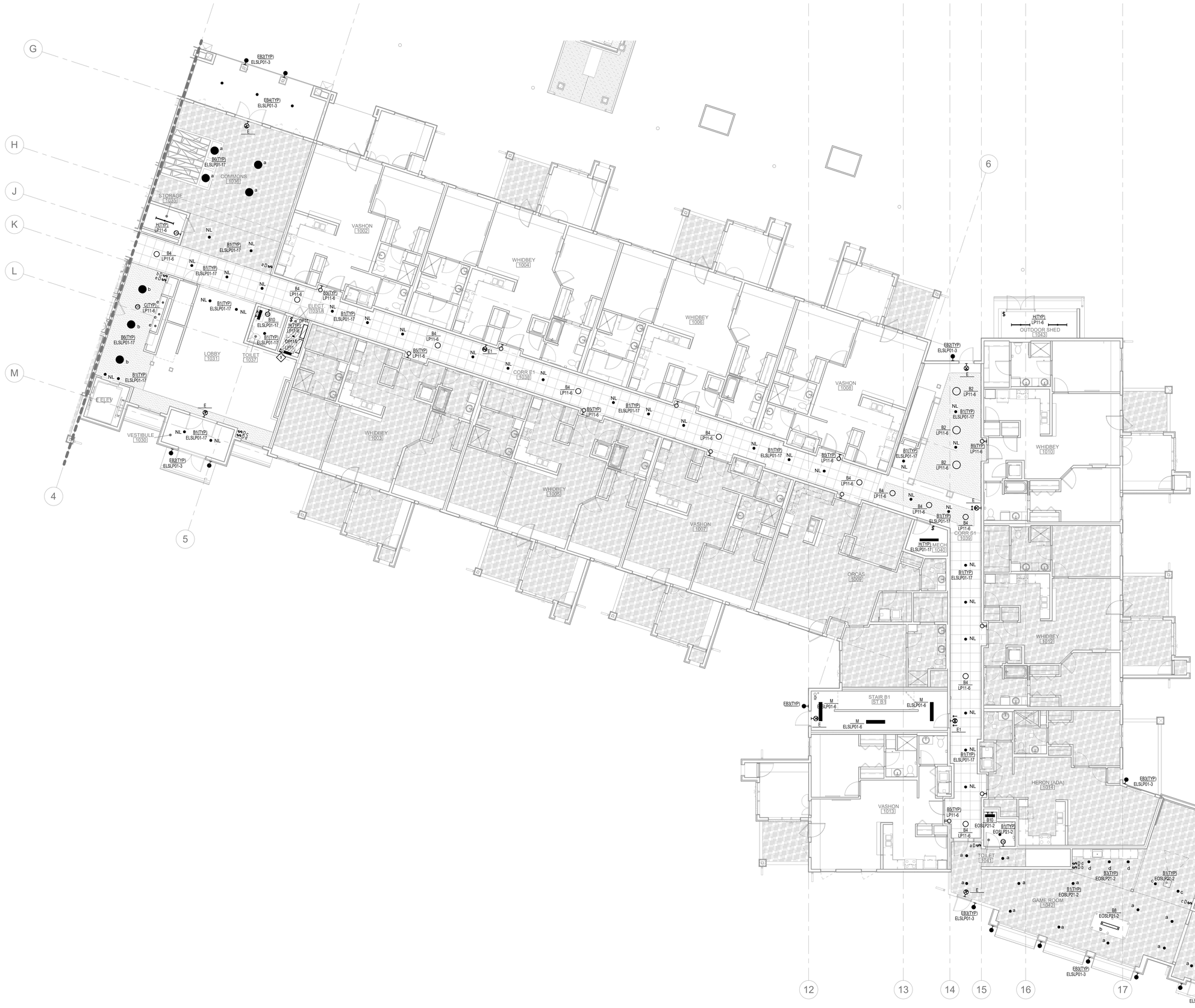

1 LEVEL 1 LIGHTING PLAN AREA B
1/8" = 1'-0"

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A B

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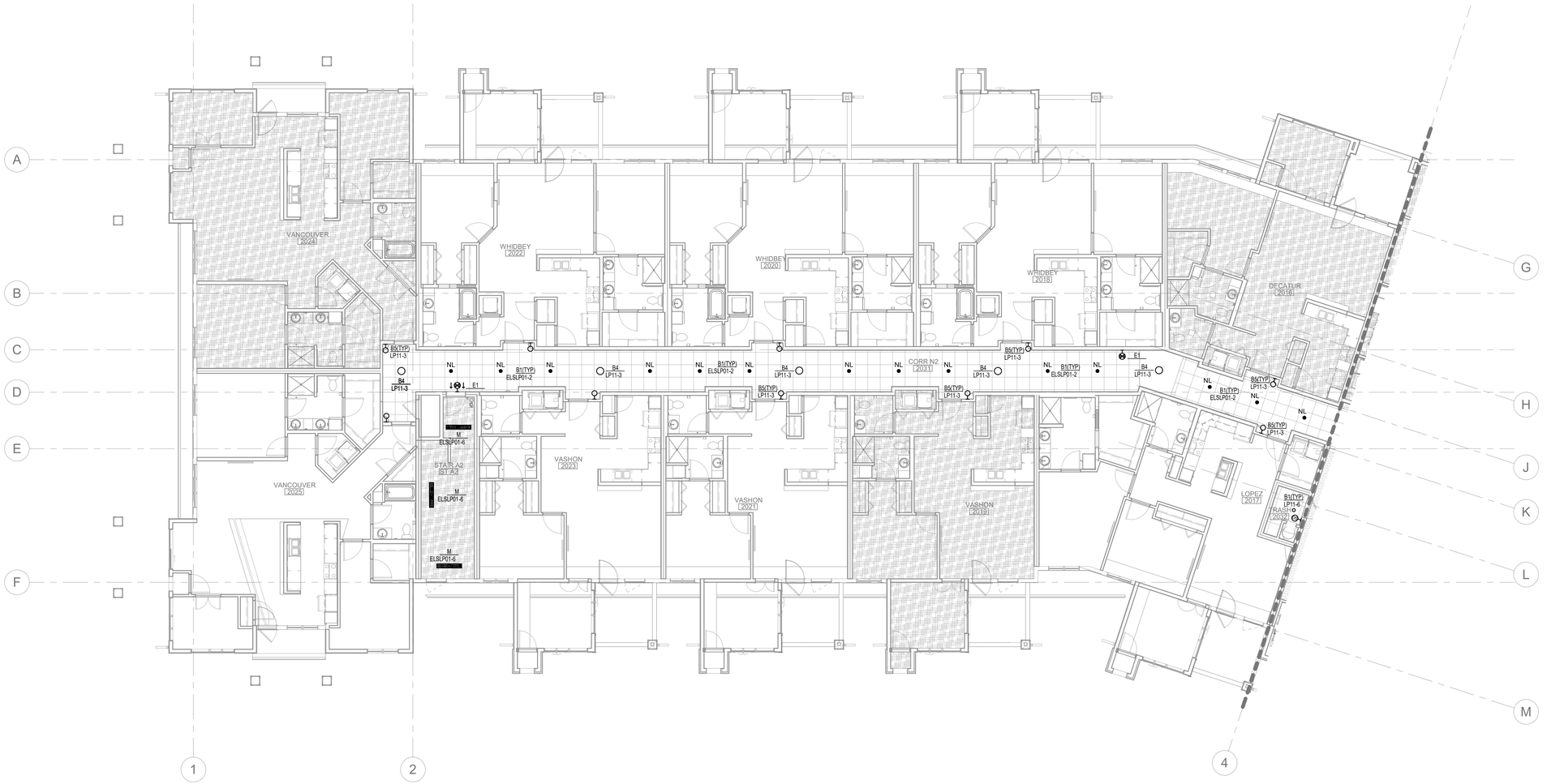
LEVEL ONE LIGHTING PLAN AREA B

E1.1B



1 LEVEL 2 LIGHTING PLAN AREA A
1/8" = 1'-0"

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LEVEL TWO LIGHTING
PLAN AREA A

E1.2A

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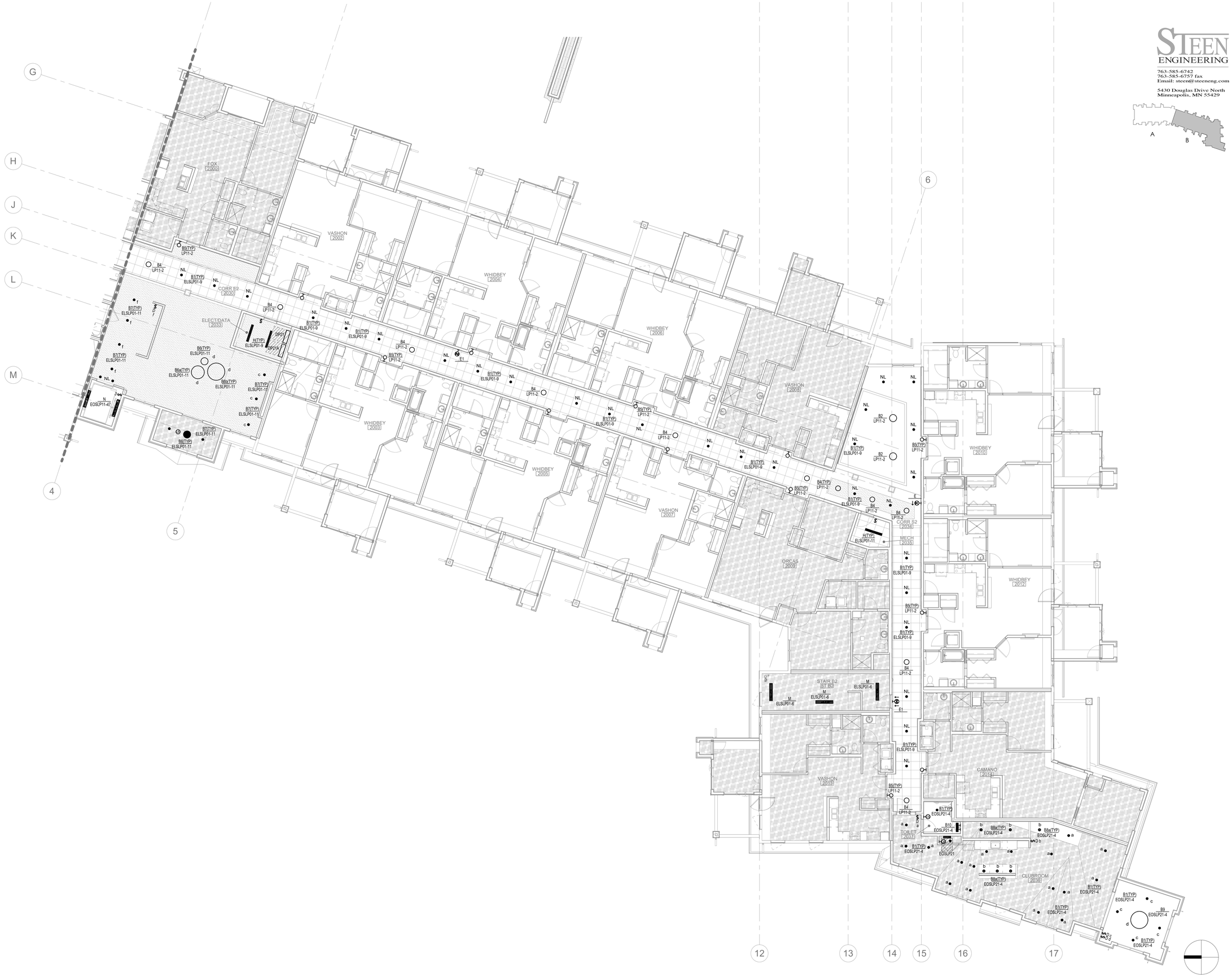

1 LEVEL 2 LIGHTING PLAN AREA B
1/8" = 1'-0"

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LEVEL TWO LIGHTING PLAN AREA B

E1.2B

GENERAL POWER & SYSTEMS NOTES

A. VERIFY LOCATION OF ALL LIGHT FIXTURES & DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

B. PER SPECIFICATIONS, CONTRACTOR SHALL PROVIDE ACOUSTICALLY RATED, FLANGED, AIRTIGHT BOXES IN ALL CORRIDOR WALLS & TOP FLOOR CEILINGS.

C. AT ALL THROUGH PENETRATIONS AT FIRE-RESISTANCE RATING, PROVIDE APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED & TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479. INSTALLATION SHALL HAVE AN F & T RATING OF NOT LESS THAN THE ASSEMBLY BEING PROTECTED.

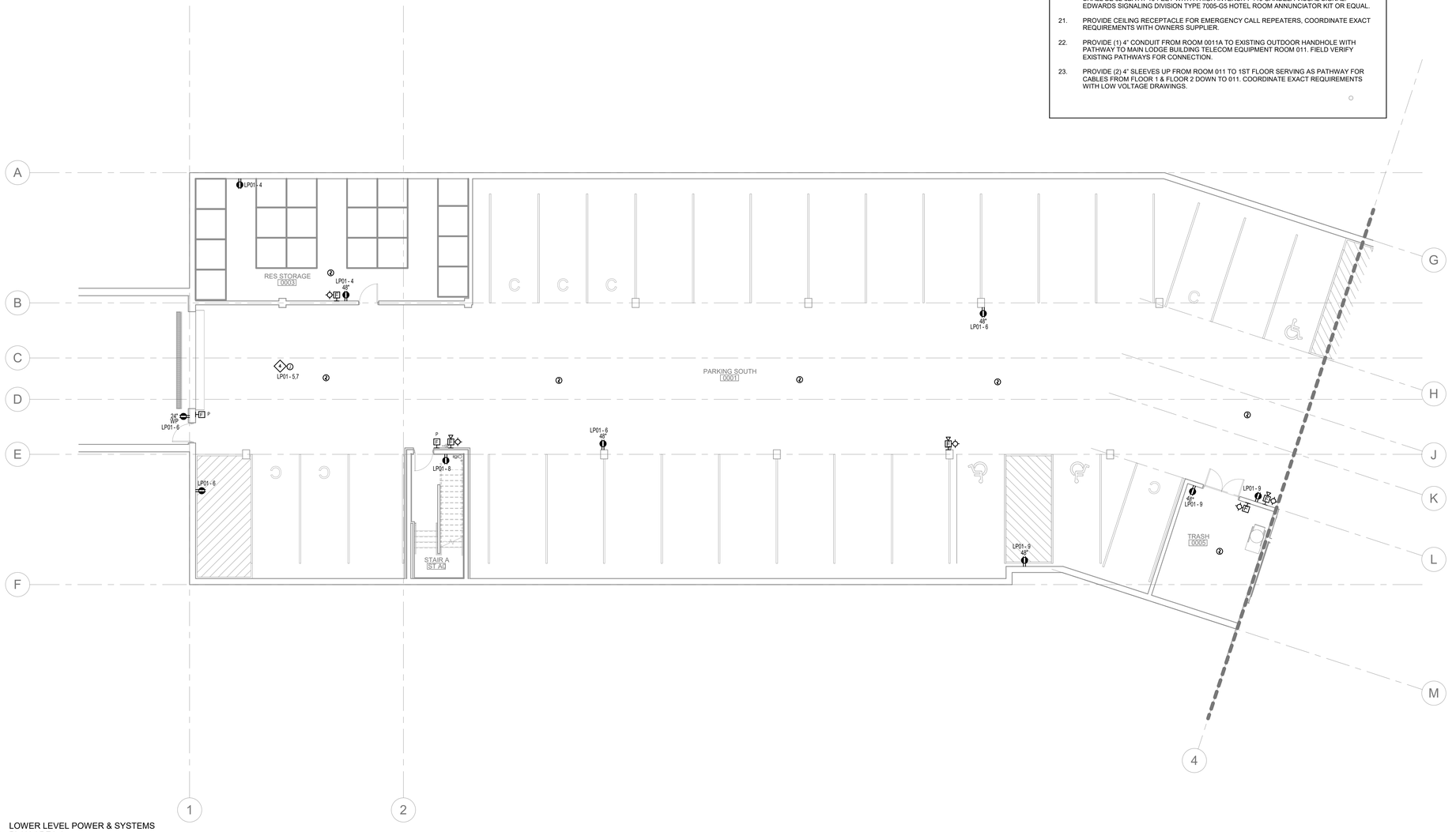
D. AT ALL MEMBRANE PENETRATIONS, ELECTRICAL BOX INSTALLATION SHALL COMPLY WITH IBC 713.3.2.

E. REFER TO UNIT PLANS FOR TYPICAL UNIT CONFIGURATIONS. CONTRACTOR SHALL COMPLETE ALL UNITS BASED ON TYPICAL UNITS.

F. PROVIDE CORRIDOR SMOKE DETECTION ABOVE & BELOW ACT CEILINGS. COORDINATE WITH FIRE MARSHALL (AHJ) EXACT REQUIREMENTS & LOCATIONS.

SPECIFIC POWER & SYSTEMS NOTES

1. DEDICATED AREA FOR INCOMING WATER SERVICE SYSTEM. REFER TO MECHANICAL PLANS & SPECIFICATIONS FOR FURTHER INFORMATION.
2. DEDICATED AREA FOR INCOMING SPRINKLER SERVICE SYSTEM. REFER TO MECHANICAL PLANS & SPECIFICATIONS FOR FURTHER INFORMATION.
3. PROVIDE DEDICATED CIRCUIT FOR SPRINKLER SYSTEM AIR COMPRESSOR FROM PANEL LP02. COORDINATE EXACT REQUIREMENTS WITH SPRINKLER CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH SPRINKLER SYSTEM INSTALLER PRIOR TO ROUGH-IN.
4. PROVIDE CONNECTIONS TO GARAGE DOOR OPERATOR ASSEMBLY & CONTROLS. COORDINATE WITH GARAGE DOOR PROVIDER.
5. PROVIDE POWER & CONTROL CONNECTIONS BETWEEN PUSHBUTTONS, KEYED SWITCH & ACCESS CONTROL SYSTEM AS REQUIRED FOR PROPER OPERATION.
6. DEDICATED FOR ELEVATOR CAB POWER & LIGHTS.
7. COORDINATE LOCATION OF ELEVATOR CONNECTION WITH ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
8. DEDICATED FOR UNDER CABINET REFRIGERATOR. VERIFY LOCATION & COORDINATE INSTALLATION WITH CABINET PROVIDER PRIOR TO ROUGH-IN.
9. PROVIDE FLOOR BOX WITH COVER & DEVICES SHOWN. WIREMOLD #WMFB SERIES OR EQUAL FOR LAMPS. COORDINATE LOCATION WITH ARCHITECT, INTERIORS & FURNITURE PROVIDER PRIOR TO ROUGH-IN.
10. DEDICATED FOR IRRIGATION SYSTEM. VERIFY ELECTRICAL REQUIREMENTS & LOCATION WITH PROVIDER PRIOR TO ROUGH-IN.
11. DEDICATED FOR ELECTRIC VEHICLE CHARGER BY OWNER. VERIFY ELECTRICAL REQUIREMENTS & LOCATION WITH EV CHARGER MANUFACTURER PRIOR TO ROUGH-IN.
12. PROVIDE CONNECTION TO FIREPLACE, COORDINATE EXACT REQUIREMENTS & PROVIDE TIMER SWITCH.
13. PROVIDE CONNECTION TO ELEVATOR 208/480V BUCK BOOST TRANSFORMER BY ELEVATOR COMPANY. COORDINATE EXACT LOCATION & REQUIREMENTS WITH ELEVATOR MANUFACTURER.
14. PROVIDE DEDICATED CIRCUIT FOR UNIT ENTRY LIGHT, REFRIGERATOR & CONVENIENCE RECEPTACLE. SEE UNIT PLAN E3.0 GENERAL NOTE 'E'.
15. PROVIDE CONNECTION TO DISHWASHER & DISPOSAL.
16. COORDINATE EXACT LOCATION & REQUIREMENTS WITH LOW VOLTAGE SUPPLIER.
17. PROVIDE CONNECTION TO FIRE PIT CONTROLLER , GAS VALVE BY OTHERS.
18. TYPICAL HEARING IMPAIRED UNIT. PROVIDE AUDIO/VISUAL SIGNALING DEVICES, SYSTEM STROBES, SYSTEM HORN/STROBES, RESIDENTIAL DETECTORS WITH STROBES & RESIDENTIAL CO DETECTOR.
19. PROVIDE ON/OFF SWITCH FOR AUDIO/VISUAL SYSTEM. PROVIDE PERMANENT LABEL.
20. PROVIDE AUDIO/VISUAL SIGNALING DEVICE WITH HORN/STROBE, LIGHTED PUSHBUTTON WITH ENGRAVED PLATE AND TRANSFORMER. MINIMUM TONE SHALL BE 82 dBA AT 10 FEET WITH A HIGH INTENSITY 110 CANDELA VISUAL SIGNAL. EDWARDS SIGNALING DIVISION TYPE 7005-G5 HOTEL ROOM ANNUNCIATOR KIT OR EQUAL.
21. PROVIDE CEILING RECEPTACLE FOR EMERGENCY CALL REPEATERS, COORDINATE EXACT REQUIREMENTS WITH OWNERS SUPPLIER.
22. PROVIDE (1) 4" CONDUIT FROM ROOM 0011A TO EXISTING OUTDOOR HANDHOLE WITH PATHWAY TO MAIN LODGE BUILDING TELECOM EQUIPMENT ROOM 011. FIELD VERIFY EXISTING PATHWAYS FOR CONNECTION.
23. PROVIDE (2) 4" SLEEVES UP FROM ROOM 011 TO 1ST FLOOR SERVING AS PATHWAY FOR CABLES FROM FLOOR 1 & FLOOR 2 DOWN TO 011. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.



1 LOWER LEVEL POWER & SYSTEMS PLAN AREA A
1/8" = 1'-0"

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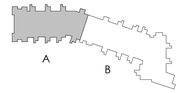

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Discipline

04/28/23
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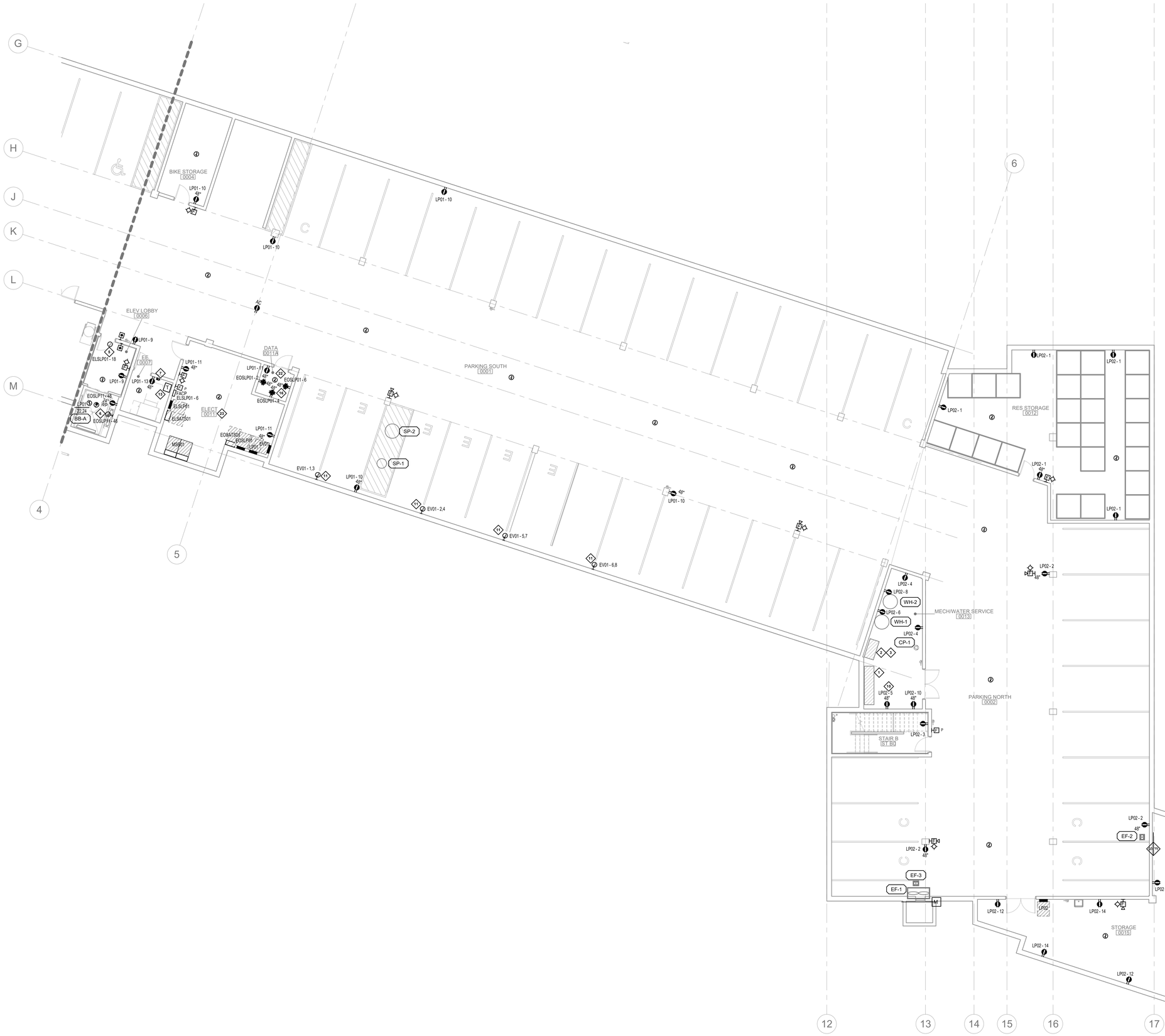
LOWER LEVEL POWER & SYSTEMS PLAN AREA A

E2.0A



1 LOWER LEVEL POWER & SYSTEMS PLAN AREA B
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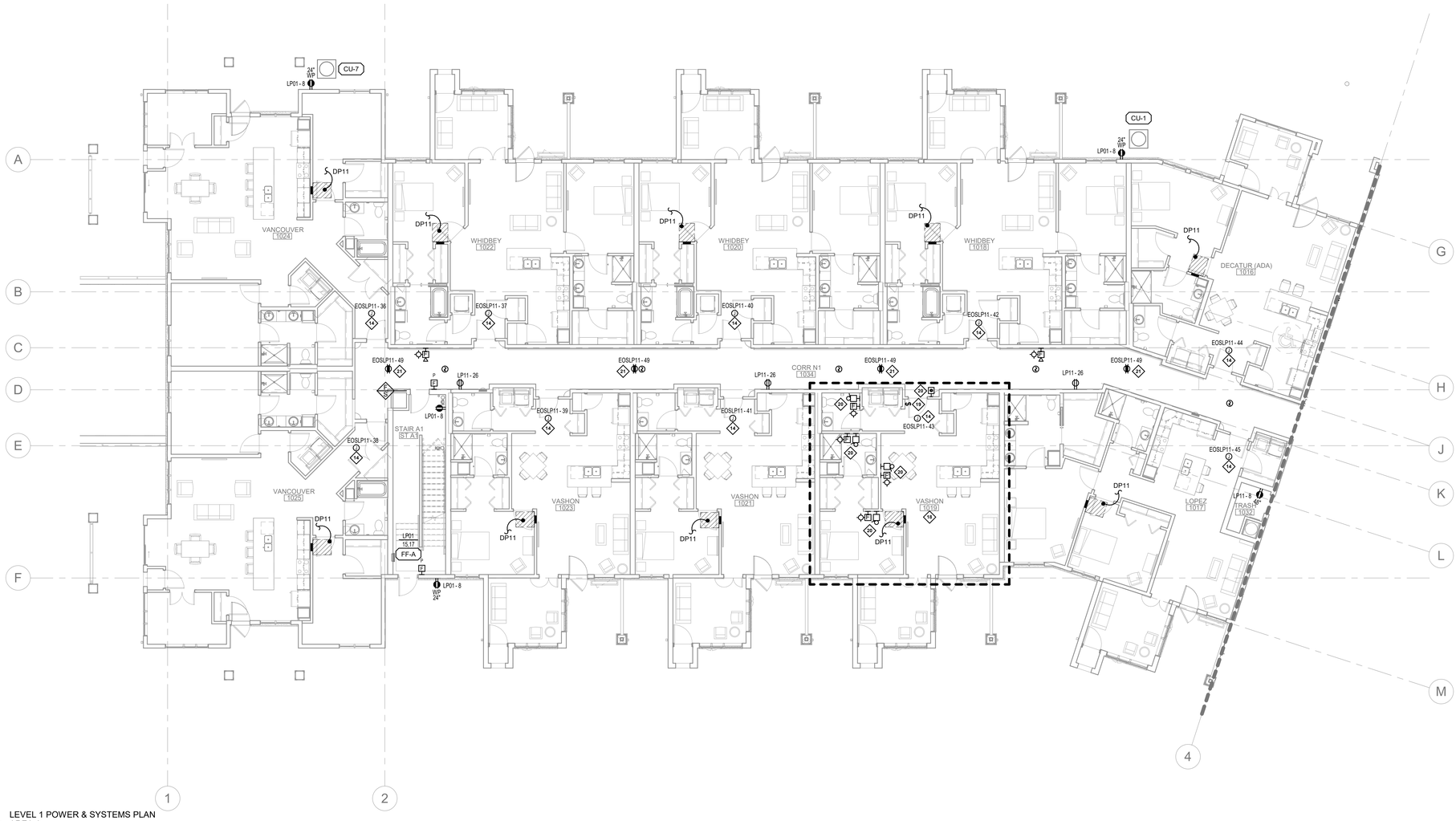
LOWER LEVEL POWER & SYSTEMS PLAN AREA B

E2.0B



1 LEVEL 1 POWER & SYSTEMS PLAN AREA A
1/8" = 1'-0"

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LEVEL ONE POWER & SYSTEMS PLAN AREA A

E2.1A

LEVEL 1 POWER & SYSTEMS PLAN
AREA B
1/8" = 1'-0"

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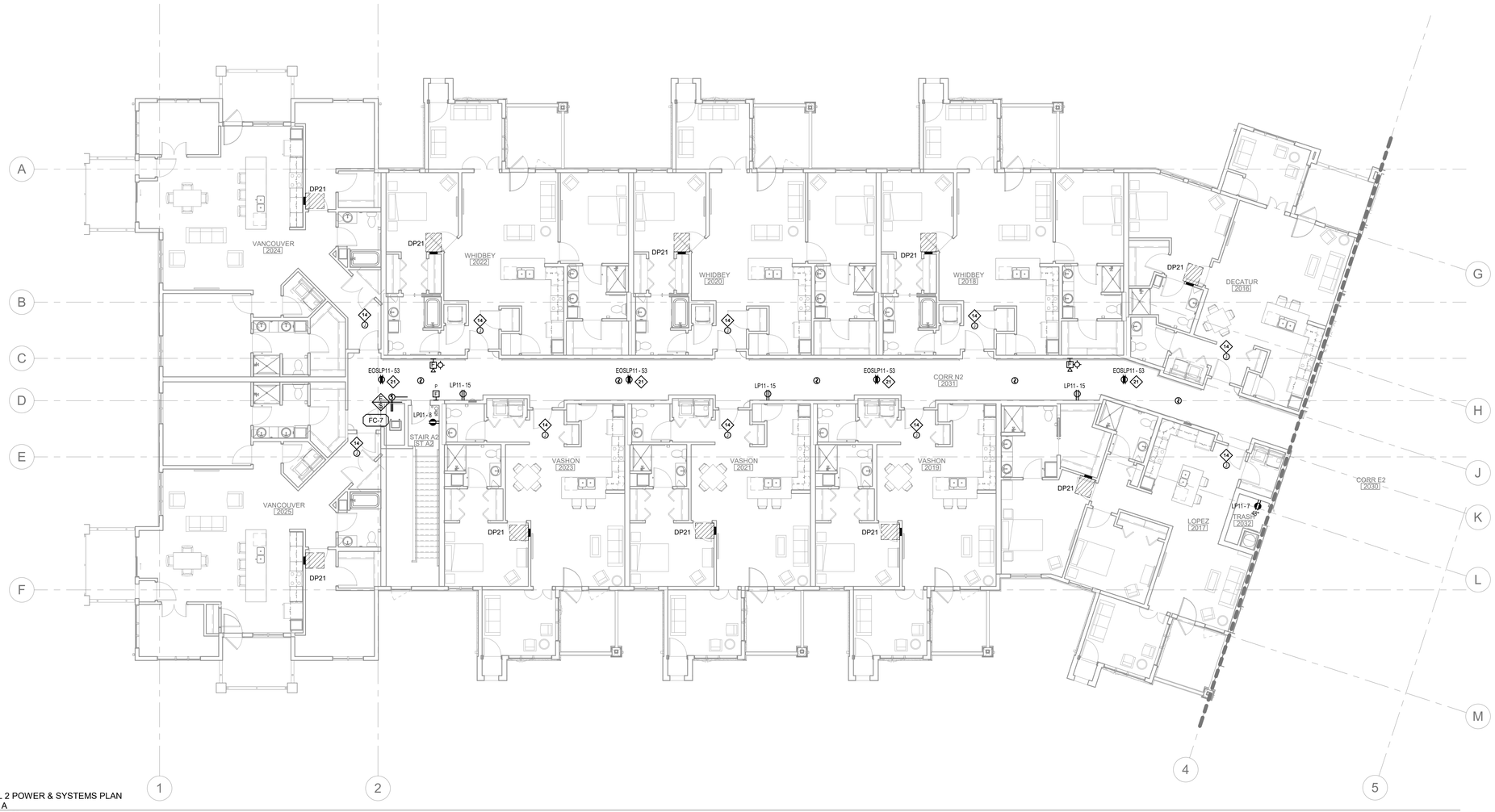
LEVEL ONE POWER & SYSTEMS PLAN AREA B

E2.1B



1 LEVEL 2 POWER & SYSTEMS PLAN AREA A
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LEVEL TWO POWER & SYSTEMS PLAN AREA A

E2.2A

LEVEL 2 POWER & SYSTEMS PLAN AREA B
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RICHARD D. BECKER STATE OF WASHINGTON 22028534 REGISTERED PROFESSIONAL ENGINEER

Signature

Richard D. Becker
Typed or Printed Name

Electrical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

DJL
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JLA
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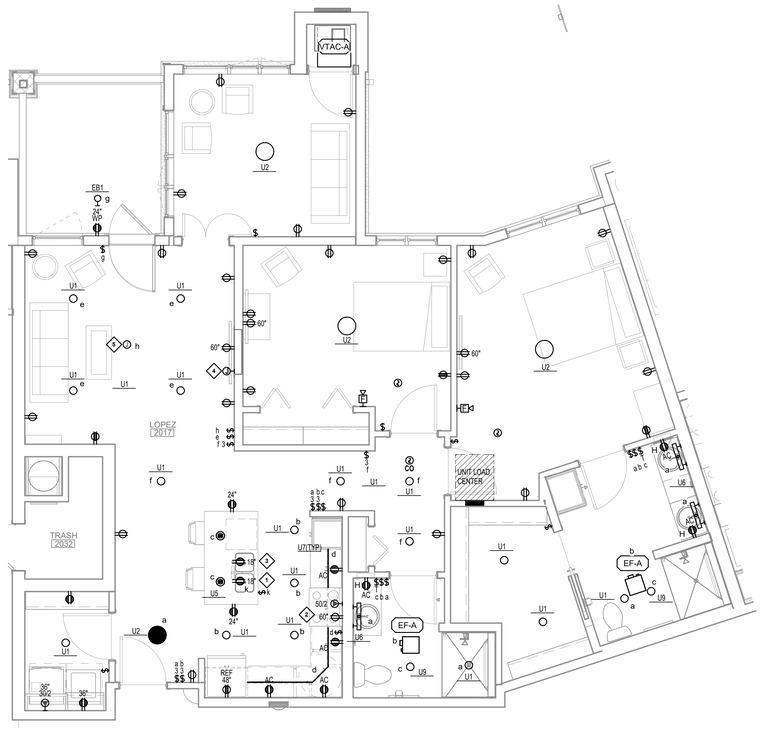
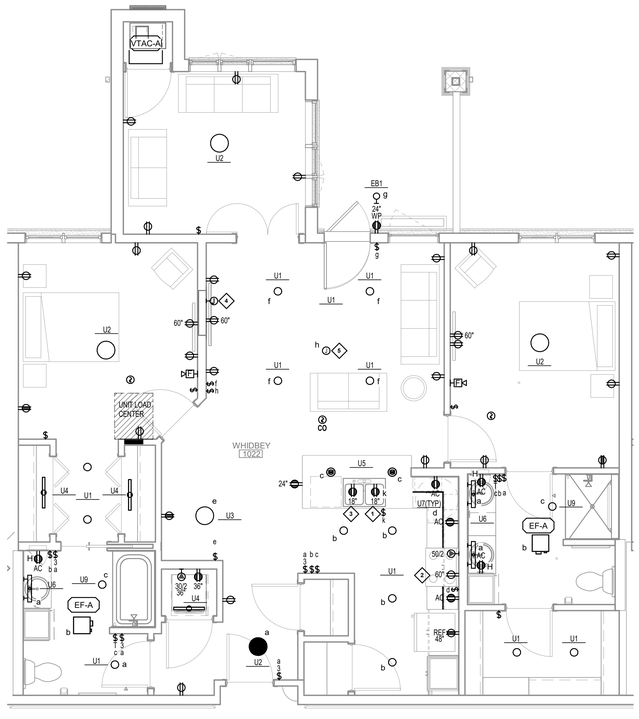
WESLEY BRADLEY PARK 2
EAST BROWNSTONE

LEVEL TWO POWER & SYSTEMS PLAN AREA B

E2.2B



2 IL UNIT - LOPEZ ELECTRICAL PLAN
1/4" = 1'-0"



1 IL UNIT - WHIDBEY ELECTRICAL PLAN
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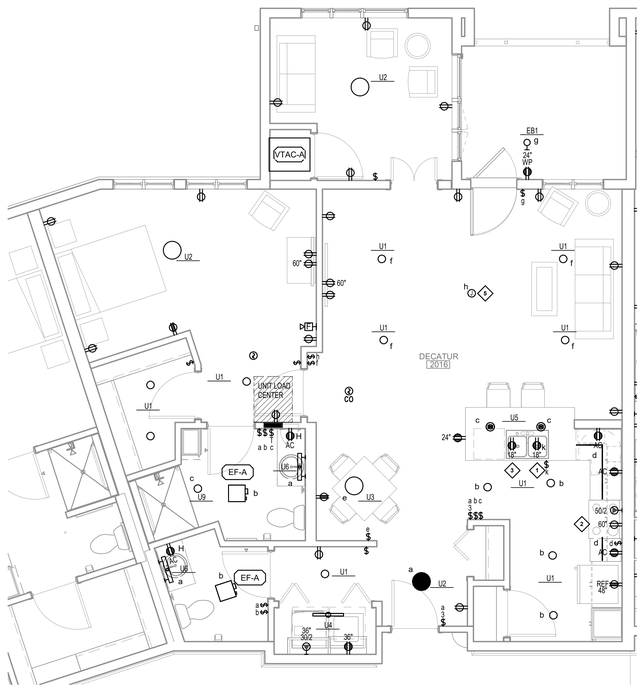
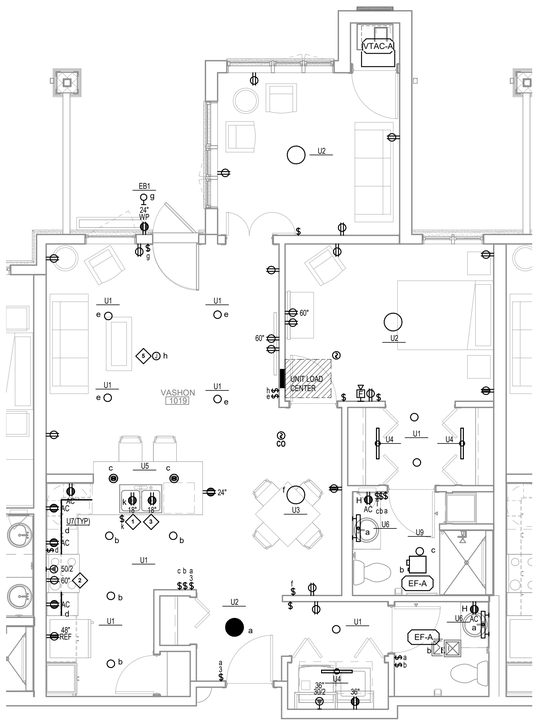
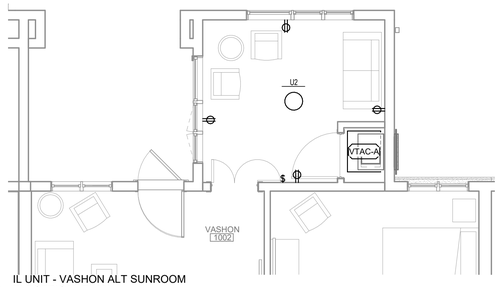


4 IL UNIT - DECATUR ELECTRICAL PLAN
1/4" = 1'-0"



3 IL UNIT - VASHON ELECTRICAL PLAN
1/4" = 1'-0"



5 IL UNIT - VASHON ALT SUNROOM ELECTRICAL PLAN
1/4" = 1'-0"

GENERAL ELECTRICAL UNIT NOTES

A. CONTRACTOR SHALL COMPLETE ALL UNITS BASED ON TYPICAL UNIT DESIGNS. COORDINATE LIGHTING LOCATIONS WITH ARCHITECT.

B. PROVIDE FAN BOXES IN ALL BEDROOMS & LIVING ROOM FIXTURES, EXCLUDING TYPE U1.

C. PROVIDE CONNECTION TO RECEPTACLE IN MEDIA PANEL (MEDIA PANEL RECEPTACLE BY OTHERS).

D. CONTRACTOR SHALL VERIFY QUANTITY & LOCATIONS OF ALL ANSI A & HEARING IMPAIRED UNITS PRIOR TO BID. REFER TO ARCHITECTURAL PLANS.

E. PROVIDE EMERGENCY CIRCUIT TO EACH UNIT, CONNECT REFRIGERATOR, ENTRY LIGHT FIXTURE & RECEPTACLES INDICATED. SEE UNIT PLANS. COORDINATE EXACT REQUIREMENTS & RECEPTACLE LOCATIONS WITH OWNER.

F. PROVIDE RESIDENTIAL SMOKE DETECTOR WITH INTEGRAL PIEZO HORN, 120 VOLT/9 VOLT DC BATTERY BACKUP & AUXILIARY FORM-A/FORM-C RELAY. GENTEX #9120F OR EQUAL.

G. PROVIDE RESIDENTIAL SMOKE DETECTOR IN ANSI A & HEARING IMPAIRED UNITS WITH INTEGRAL 177CD STROBE & PIEZO HORN, 120 VOLT/9 VOLT DC BATTERY BACKUP, AUXILIARY FORM-A/FORM-C RELAY & REMOTE STROBE CAPABILITY. GENTEX #7109CSX OR EQUAL.

H. PROVIDE RESIDENTIAL SMOKE/CARBON MONOXIDE DETECTOR WITH INTEGRAL PIEZO HORN, 120 VOLT/9 VOLT DC BATTERY BACKUP & AUXILIARY FORM-A/FORM-C RELAY. GENTEX #GN-503F OR EQUAL.

I. PROVIDE RESIDENTIAL CARBON MONOXIDE DETECTOR IN ANSI A & HEARING IMPAIRED UNITS WITH INTEGRAL PIEZO HORN, 120 VOLT/9 VOLT DC BATTERY BACKUP & AUXILIARY FORM-A/FORM-C RELAY. GENTEX #CO1209F OR EQUAL.

J. PROVIDE RESIDENTIAL REMOTE STROBE IN ANSI A & HEARING IMPAIRED UNITS, 120 VOLT. INTERCONNECT WITH SMOKE DETECTORS. GENTEX #GXS-120177 OR EQUAL. COORDINATE QUANTITY & LOCATIONS WITH ARCHITECT.

K. INTERCONNECT ALL RESIDENTIAL SMOKE DETECTORS WITHIN A UNIT IN TANDEM, SO THAT ALL DETECTORS ALARM WHENEVER ONE DETECTOR ALARMS.

L. CONTRACTOR SHALL LOCATE UNIT LIGHT FIXTURES PER THE ARCHITECTURAL REFLECTED CEILING PLANS.

M. CONTRACTOR SHALL COMPARE TYPICAL UNIT DESIGNS WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO BID. THE QUANTITY & CONDITION OF LIGHT FIXUTRES MOST FAVORABLE TO THE OWNER SHALL BE BID.

◇ SPECIFIC ELECTRICAL UNIT NOTES

1. PROVIDE FOR DISPOSAL. MOUNT UNDER SINK TO ALLOW FOR PLUG CONNECTION & SWITCH.
2. DEDICATED FOR RANGEHOOD/MICROWAVE. MOUNT IN CABINET ABOVE TO ALLOW FOR PLUG CONNECTION.
3. DEDICATED FOR DISHWASHER. MOUNT BELOW SINK TO ALLOW FOR PLUG CONNECTION.
4. DEDICATED FOR FIREPLACE. COORDINATE INSTALLATION & REQUIREMENTS WITH FIREPLACE PROVIDER.
5. PROVIDE FLUSH J-BOX WITH SUPPORT TO ALLOW FOR FUTURE REPLACEMENT OF PROVIDED FIXTURE WITH COMBINATION CEILING FAN/FIXTURE. PROVIDE 3-WIRE CONDUCTOR FROM J-BOX TO SWITCH BOX FOR FUTURE CEILING FAN/FIXTURE CONTROLS.
6. PROVIDE FLOOR BOX WITH DEVICE INDICATED.
7. ACCESSIBLE UNIT. PROVIDE SEPARATE CONTROL OF RANGEHOOD FAN & RANGEHOOD LIGHT.
8. ACCESSIBLE UNIT. PROVIDE ACCESSIBLE DEVICES & SWITCHES (SHUT-OFF) AS REQUIRED.
9. CONNECT CO DETECTOR TO SMOKE DETECTOR. CO DETECTOR ACTIVATION SHALL CAUSE SMOKE DETECTOR TO ALARM.

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WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL UNITS

E3.0

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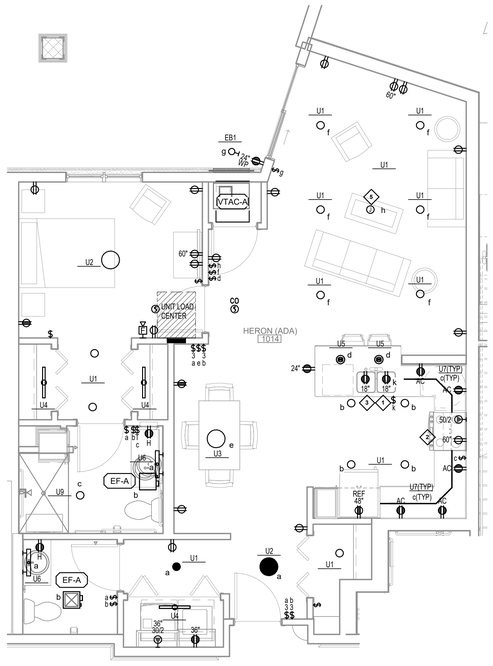
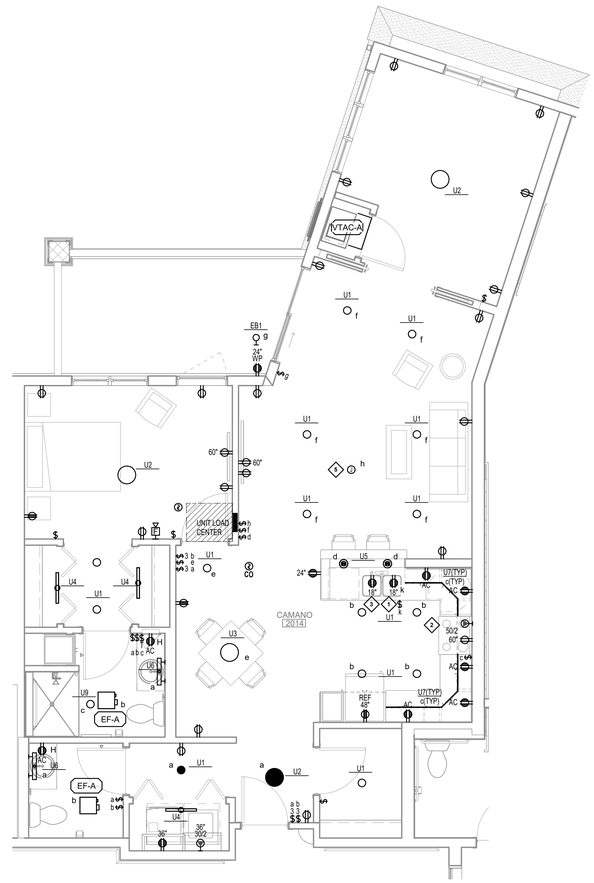


1 IL UNIT - HERON ELECTRICAL PLAN
1/4" = 1'-0"



2 IL UNIT - CAMANO ELECTRICAL PLAN
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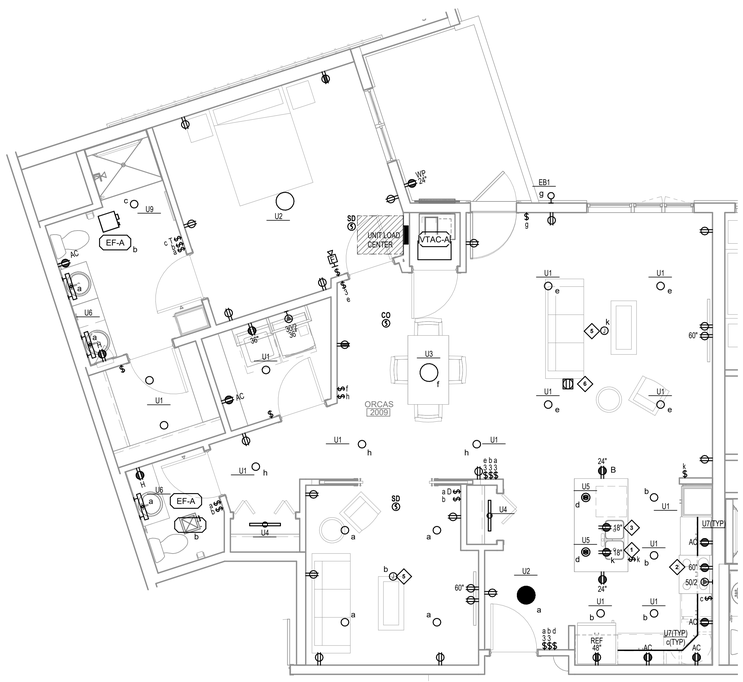
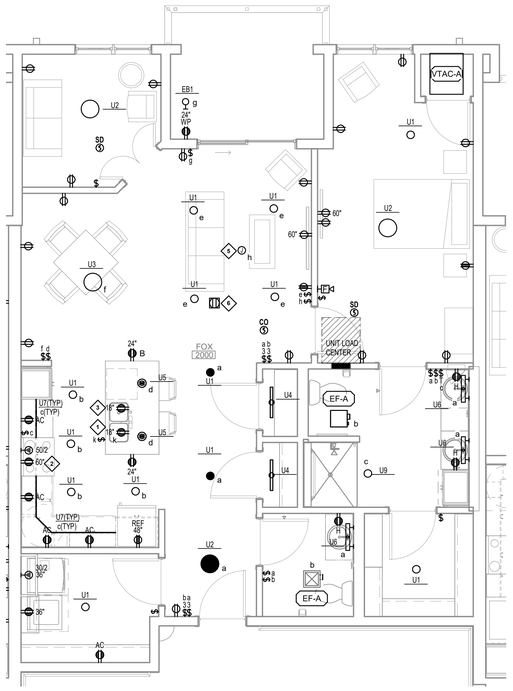


3 IL UNIT - ORCAS ELECTRICAL PLAN
1/4" = 1'-0"



4 IL UNIT - FOX ELECTRICAL PLAN
1/4" = 1'-0"

REFER TO SHEET E3.0 FOR NOTES

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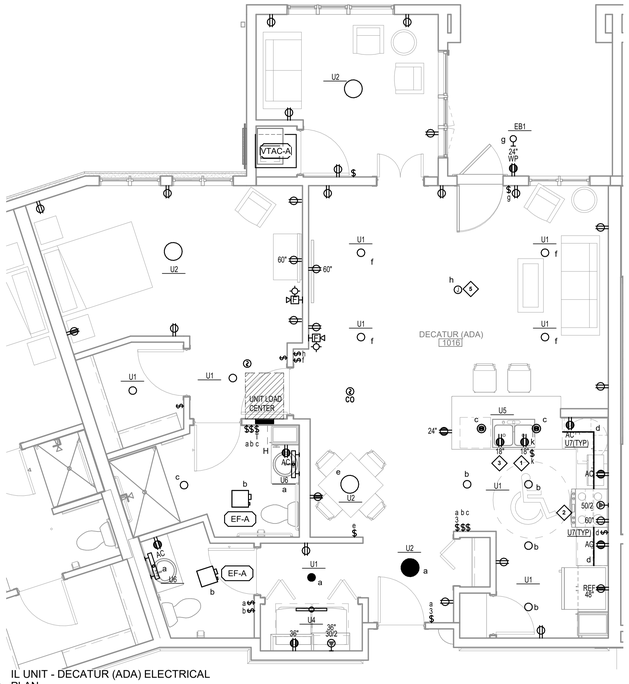
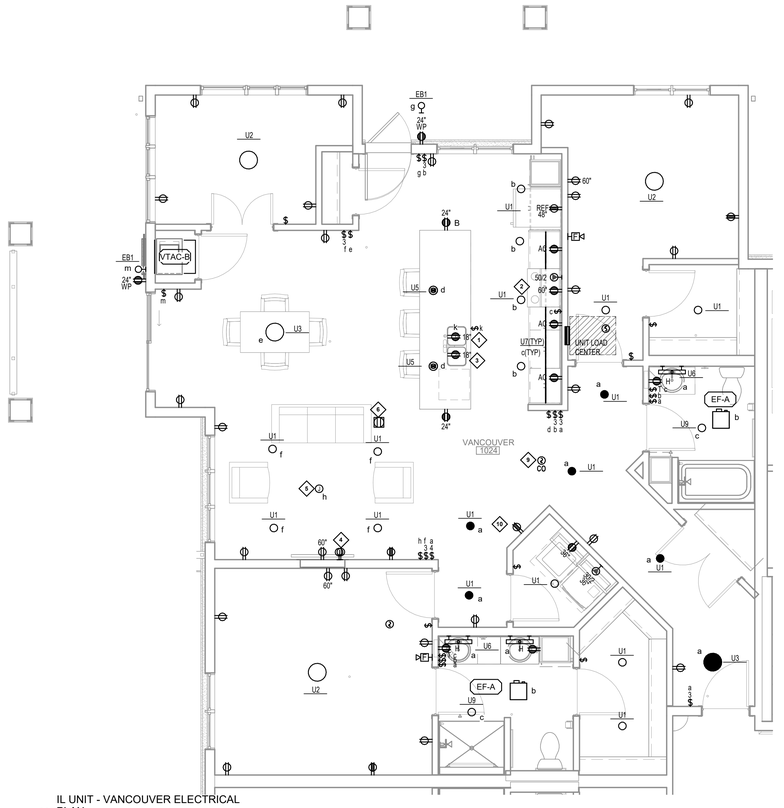
ELECTRICAL UNITS

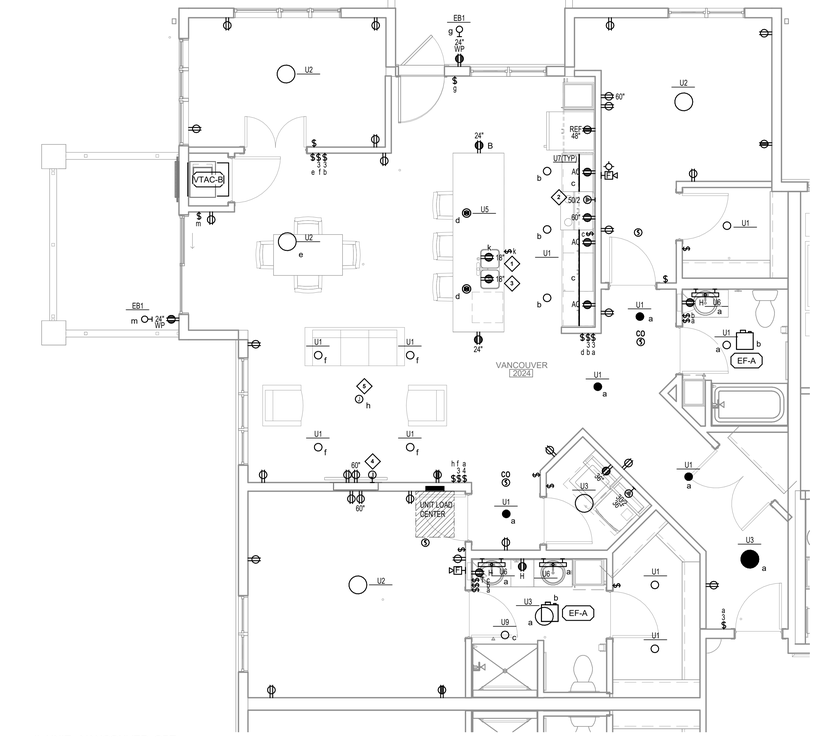
E3.1



1 IL UNIT - DECATUR (ADA) ELECTRICAL PLAN
1/4" = 1'-0"



2 IL UNIT - VANCOUVER ELECTRICAL PLAN
1/4" = 1'-0"



3 x IL UNIT - VANCOUVER_OPT ELECTRICAL PLAN
1/4" = 1'-0"

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WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL UNITS

E3.2

DISTRIBUTION EQUIPMENT SCHEDULE

PANEL NO.	VOLTAGE	MOUNTING	AIC	MAIN / RATING	BREAKERS DISC REQUIRED	FEEDER FROM	NOTES
DP11 (1ST FLR)	120/208V 3PH, 4W	SURFACE	22K	800A MLO	REFER TO PANEL SCHEDULE	(2) 3-1/2"C. 4#500 & #1/0 GRD. FROM MSB01	3
DP11A (1ST FLR)	120/208V 3PH, 4W	SURFACE	22K	800A MLO	REFER TO PANEL SCHEDULE	(2) 3-1/2"C. 4#500 & #1/0 GRD. FROM MSB01	3
DP21 (2nd FLR)	120/208V 3PH, 4W	SURFACE	10K	800A MLO	REFER TO PANEL SCHEDULE	(2) 3-1/2"C. 4#500 & #1/0 GRD. FROM DP11	
DP21A (2nd FLR)	120/208V 3PH, 4W	SURFACE	10K	800A MLO	REFER TO PANEL SCHEDULE	(2) 3-1/2"C. 4#500 & #1/0 GRD. FROM DP11A	
LP01 (ELEC RM)	120/208V 3PH, 4W	SURFACE	10K	200A MLO	REFER TO PANEL SCHEDULE	2"C. 4#3/0 & #6 GRD. FROM MSB01	1
LP02 (STORAGE)	120/208V 3PH, 4W	SURFACE	10K	100A MLO	REFER TO PANEL SCHEDULE	1-1/2"C. 4#3 & #8 GRD. FROM MSB01	1
LP11 (1ST FLR)	120/208V 3PH, 4W	SURFACE	10K	200A MLO	REFER TO PANEL SCHEDULE	2"C. 4#3/0 & #6 GRD. FROM MSB01	1,3
EV01 (EV CHARG)	120/208V 3PH, 4W	SURFACE	10K	200A MLO	REFER TO PANEL SCHEDULE	2-1/2"C. 4#3/0 & #6 GRD. FROM MSB01	

EMERGENCY DISTRIBUTION EQUIPMENT SCHEDULE

PANEL NO.	VOLTAGE	MOUNTING	AIC	MAIN / RATING	BREAKERS REQUIRED	FEEDER FROM	NOTES
ELDAS1	120/208V 3PH, 4W	GEN	-	100A CB	-	EG11	
EODAS1	120/208V 3PH, 4W	GEN	-	400A CB	-	EG11	
EODAS2	120/208V 3PH, 4W	GEN	-	400A CB	-	EG11	
ELATS01	120/208V 3PH, 4W	SURFACE	22K	100A	-	2"C. 4#3/0 & #6 GRD. FROM ELDAS1 & MSB01	
EOATS01	120/208V 3PH, 4W	SURFACE	22K	400A		(2) 3"C. 4#350 & #1 GRD. FROM EODAS1 & MSB01	
EOATS02	120/208V 3PH, 4W	SURFACE	22K	400A		3-1/2"C. 4#500 & #3 GRD. FROM EODAS2 & HP1A	
ELSLP01	120/208V 3PH, 4W	SURFACE	22K	100A MLO	REFER TO PANEL SCHEDULE	2"C. 4#3 & #8 GRD. FROM ELATS01	1,6
EOSLP01	120/208V 3PH, 4W	SURFACE	22K	400A MLO	REFER TO PANEL SCHEDULE	3-1/2"C. 4#500 & #3 GRD. FROM EOATS01	1,6
EOSLP02 (EXISTING)	120/208V 3PH, 4W	SURFACE		400A MLO		3-1/2"C. 4#500 & #3 GRD. FROM EOATS02	8
EOSLP11	120/208V 3PH, 4W	SURFACE	22K	200A MLO	REFER TO PANEL SCHEDULE	2"C. 4#3/0 & #6 GRD. FROM EOSLP01	1
EOSLP21 (2ND FLR)	120/208V 3PH, 4W	SURFACE	10K	200A MLO	REFER TO PANEL SCHEDULE	2-1/2"C. 4#250 & #4 GRD. FROM EOSLP01	1
EDSV21 (ELEV #1)	208V 3PH, 3W	SURFACE	10K	60A FU DISC.	REFER TO PANEL SCHEDULE	1"C. 3#6 & #10 GRD. FROM EOSLP01	2,4,5
ELGEN1	120/208V 3PH, 4W	SURFACE	22K	100A MLO	REFER TO PANEL SCHEDULE	2"C. 4#1/0 & #6 GRD. FROM ELATS01	
ELEV-XFMR	208/480V 3PH, 3W	SURFACE	22K		-	1-1/4"C. 3#3 & #8 GRD. FROM EOSLP01	7

NORMAL & EMERGENCY DISTRIBUTION SCHEDULE NOTES:

1. FILL REMAINDER OF PANELBOARD WITH 20/1 POLE BREAKERS.
2. MAKE CONNECTION TO ELEVATOR EQUIPMENT.
3. PROVIDE FEED-THRU LUGS.
4. PROVIDE FUSING PER ELEVATOR MANUFACTURERS RECOMMENDATIONS.
5. VERIFY WITH SPRINKLER CONTRACTOR & AHJ IF SHUNT-TRIP C.B. ARE REQUIRED.
6. PROVIDE SURGE PROTECTION (TVSS/SPD).
7. PROVIDE CONNECTION TO BUCK-BOOST XFMR (208/480V).
8. PROVIDE CONNECTION TO TRANSFER SWITCH AS REQUIRED.

MAIN SWITCHBOARD SCHEDULE

VOLTAGE : 120/208V, 3-PH, 4W IDENT: MSB01
AMPERAGE : 1600 AMP
AIC RATING : 50K AIC
FEEDER :(6) 3-1/2"C, #8600 FROM XFMR

SECTION	SWITCH/FUSE	USE	NOTES
1	1600A SW, 1600A FU	INCOMING FEEDER MAIN SWITCH UTILITY METERING	1
2	200A CB 200A CB 100A CB 200A CB 100A CB 400A CB 800A CB 800A CB 400A CB	LP01 LP11 LP02 EV01 ELATS01 EOATS01 DP11 DP11A SPACE	

SWITCHBOARD SCHEDULE NOTES
1. PROVIDE SURGE PROTECTION.

TYPICAL 1 & 2 BEDROOM UNIT LOAD CENTER
SERVICE: 120/208V, 1PH, 3W BUS: 100A
A.I.C. RATING: 10K SPACES: 24
FEEDER FROM PER SCHEDULE DP11, DP11A, DP21 & DP21A MTG: FLUSH

CCT	CB	WIRE	LOAD DESCRIPTION
1	20/1	#12	SMALL APPLIANCE
3	20/1	#12	SMALL APPLIANCE
5	20/1	#12	BATHROOM RECEPTACLE
7	XX	#8	VTAC-A OR VTAC-B
9	2	-	(REFER TO EQUIPMENT SCHEDULE)
11	15/1	#14	GENERAL LIGHTING
13	15/1	#14	GENERAL LIGHTING
15	15/1	#14	GENERAL LIGHTING
17	15/1	-	SPARE
19	-	-	SPACE
21	-	-	SPACE
23	-	-	SPACE
2	50	#8	RANGE
4	2	-	-
6	30	#10	DRYER
8	2	-	-
10	20/1	#12	WASHER
12	20/1	#12	MICROWAVE
14	20/1	#12	DISHWASHER
16	20/1	#12	DISPOSAL
18	20/1	#12	REFRIGERATOR
20	-	-	SPACE
22	-	-	SPACE
24	-	-	SPACE

CONTRACTOR SHALL WIRE ALL INDIVIDUAL UNITS PER THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. VERIFY THAT THE CONTRACTOR ROUGH-IN, LAYOUT AND UNIT PANEL CIRCUIT BREAKER COUNT MATCH. PROVIDE CIRCUIT BREAKERS IN UNIT PANELS PER CODE FOR GENERAL LIGHTING, APPLIANCE LOADS AND SPECIFIC APPLIANCES AND MECHANICAL EQUIPMENT.

PROVIDE ARC-FAULT PROTECTIVE DEVICES FOR ALL 125 VOLT, SINGLE PHASE BRANCH CIRCUITS IN ALL ROOMS, EXCEPT FOR BATHROOMS, GARAGES & UNFINISHED BASEMENTS PER LATEST ADOPTED NEC. PROVIDE GFI PROTECTIVE DEVICES OR COMBINATION ARC-FAULT/GFI PROTECTIVE DEVICES WHERE GFI PROTECTION IS NOTED OR REQUIRED BY CODE.

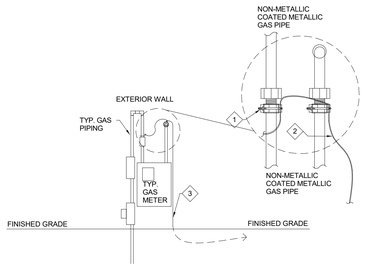
REFER TO SPECIFICATIONS FOR SER CABLE INSTALLATION RESTRICTIONS.

AVAILABLE FAULT CURRENT SCHEDULE

EQUIPMENT IDENT	SOURCE AIC (AMPS)	FEEDER LENGTH (FT)	AVAILABLE AIC (AMPS)
UTILITY TRANS.			39,700
MSB01	39,700	128	26,097
LP01	26,097	25	12,833
LP11	36,097	50	9,729
DP11	26,097	50	4,042
DP11A	26,097	50	4,042
EV01	26,097	25	12,833
ELSATS01	26,097	20	9,041
EOSATS01	26,097	20	9,041

AVAILABLE FAULT CURRENT SCHEDULE NOTES:

A. ABOVE CALCULATIONS ARE BASED UPON COPPER FEEDERS AS INDICATED IN THE POWER DISTRIBUTION EQUIPMENT, SWITCHBOARD AND MECHANICAL & ELECTRICAL EQUIPMENT SCHEDULES.
B. CALCULATIONS DO NOT INCLUDE ADJUSTMENTS FOR VOLT DROP.
C. LENGTHS OF FEEDERS ABOVE ARE BASED UPON APPROXIMATE LOCATIONS OF SCHEDULED EQUIPMENT.
D. THIS CONTRACTOR SHALL RECALCULATE AIC BASED UPON ACTUAL FIELD INSTALLATION INCLUDING INSTALLED UTILITY TRANSFORMER AVAILABLE AIC, VOLT DROP, SIZE & TYPE (COPPER OR ALUMINUM) OF CONDUCTOR.
E. RECALCULATIONS SHALL BE COMPLETE PRIOR TO SHOP DRAWING SUBMITTALS.



2 SINGLE METER GAS PIPING BONDING DETAIL
NO SCALE

SINGLE METER GAS PIPING BONDING GENERAL NOTES:

A. COMPLETE BONDING INSTALLATION SHALL CONFORM TO NFPA-70, NEC-250 AND UL467.

B. CLAMPS SHALL NOT BE INSTALLED ON NON-METALLIC COATED GAS PIPING.

C. THE #6 BONDING CONDUCTOR SHALL BE ONE CONTINUOUS PIECE WITH NO SPLICES.

◇SINGLE METER GAS PIPING BONDING SPECIFIC NOTES:

1. PROVIDE BONDING CLAMPS FOR GAS PIPE FITTING. INSTALL ON METALLIC NUT OF CONNECTOR AFTER PIPE CONNECTIONS HAVE BEEN MADE & TESTED. CLAMP SHALL BE COMPATIBLE WITH METAL NUT TO PREVENT CORROSION & SHALL ACCEPT A MINIMUM #6 COPPER BONDING CONDUCTOR. STORM COPPER COMPONENTS CO. #NAED-UPC-GVN-JRD OR EQUAL. TYPICAL.
2. PROVIDE MINIMUM #6 BARE COPPER BONDING CONDUCTOR.
3. ROUTE BONDING CONDUCTOR FROM MANIFOLD SIDE OF METER DIRECT BURIED TO BUILDING SERVICE GROUND ROD & CLAMP. FIELD VERIFY EXACT ROUTING & LOCATION OF SERVICE GROUND ROD(S).

GENERAL ELECTRICAL RISER NOTES:

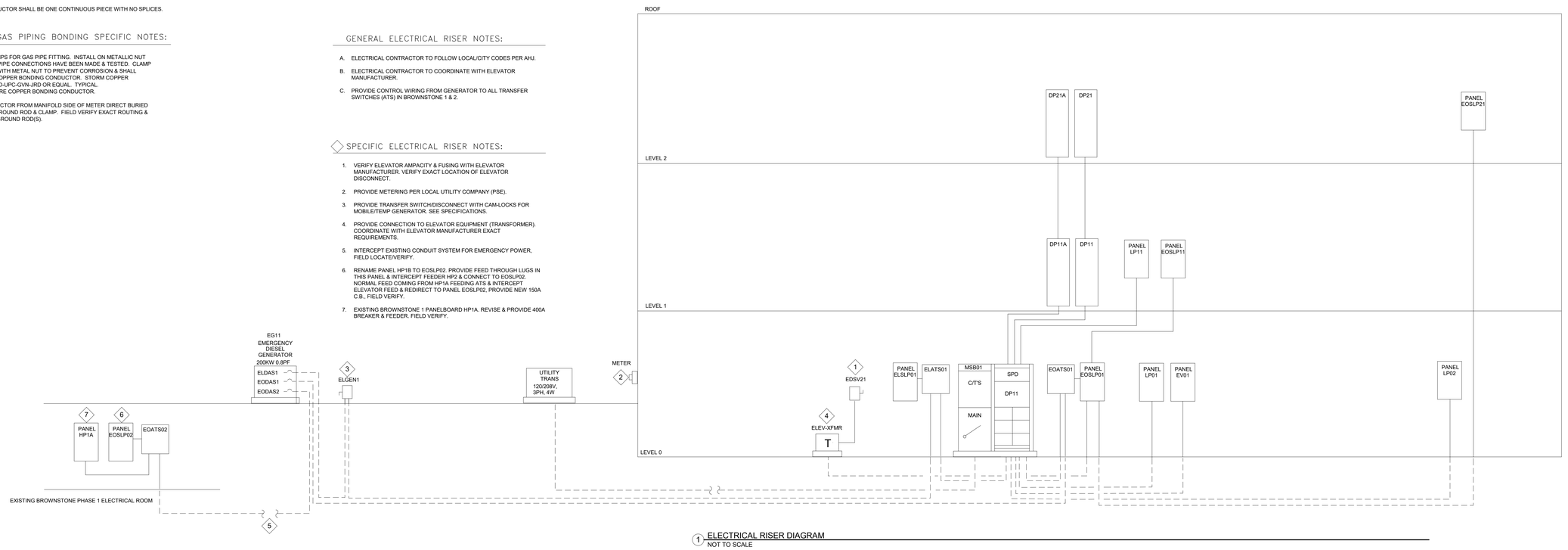
A. ELECTRICAL CONTRACTOR TO FOLLOW LOCAL/CITY CODES PER AHJ.

B. ELECTRICAL CONTRACTOR TO COORDINATE WITH ELEVATOR MANUFACTURER.

C. PROVIDE CONTROL WIRING FROM GENERATOR TO ALL TRANSFER SWITCHES (ATS) IN BROWNSTONE 1 & 2.

◇SPECIFIC ELECTRICAL RISER NOTES:

1. VERIFY ELEVATOR AMPACITY & FUSING WITH ELEVATOR MANUFACTURER. VERIFY EXACT LOCATION OF ELEVATOR DISCONNECT.
2. PROVIDE METERING PER LOCAL UTILITY COMPANY (PSE).
3. PROVIDE TRANSFER SWITCH/DISCONNECT WITH CAM-LOCKS FOR MOBILE/TEMP GENERATOR. SEE SPECIFICATIONS.
4. PROVIDE CONNECTION TO ELEVATOR EQUIPMENT (TRANSFORMER). COORDINATE WITH ELEVATOR MANUFACTURER EXACT REQUIREMENTS.
5. INTERCEPT EXISTING CONDUIT SYSTEM FOR EMERGENCY POWER, FIELD LOCATE/VERIFY.
6. RENAME PANEL HP1B TO EOSLP02. PROVIDE FEED THROUGH LUGS IN THIS PANEL & INTERCEPT FEEDER HP2 & CONNECT TO EOSLP02. NORMAL FEED COMING FROM HP1A.FEEDING ATS & INTERCEPT ELEVATOR FEED & REDIRECT TO PANEL EOSLP02, PROVIDE NEW 150A C.B., FIELD VERIFY.
7. EXISTING BROWNSTONE 1 PANELBOARD HP1A. REVISE & PROVIDE 400A BREAKER & FEEDER. FIELD VERIFY.



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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RICHARD D. BECKER — STATE OF WASHINGTON — 22028534 — REGISTERED PROFESSIONAL ENGINEER

Signature

Richard D. Becker
Typed or Printed Name

Electrical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

DJL
DRAWN BY

JLA
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL RISER

E4.0

Switchboard: MSB01

Location: ELECT 0011 **Volts:** 120/208 Wye **A.I.C. Rating:** See Fault Current Schedule
Supply From: **Phases:** 3 **Mains Type:**
Mounting: **Wires:** 4 **Mains Rating:**
Enclosure: **MCB Rating:** 1600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	DP11	3	800 A	800 A	174000 VA	
2	DP11A	3	800 A	800 A	217500 VA	
3	ELSLP01	3	100 A	200 A	8237 VA	
4	EOSLP01	3	400 A	400 A	141692 VA	
5	EV01	3	200 A	200 A	20051 VA	
6	LP01	3	200 A	200 A	14913 VA	
7	LP02	3	200 A	200 A	21679 VA	
8	LP11	3	200 A	200 A	65801 VA	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	663789 VA	
				Total Amps:	1842 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	20600 VA	75.00%	15450 VA		
HVAC	59366 VA	75.00%	44525 VA	**Total Conn. Load:**	663789 VA
Lighting	5648 VA	125.00%	7060 VA	**Total Est. Demand:**	505126 VA
Motor	1176 VA	125.00%	1470 VA	**Total Conn.:**	1842 A
Other	525557 VA	75.00%	394168 VA	**Total Est. Demand:**	1402 A
Power	8000 VA	100.00%	8000 VA		
MTR	3922 VA	117.50%	4609 VA		
RCPT	32740 VA	65.27%	21370 VA		
LITES	6780 VA	125.00%	8475 VA		

Notes:

PANELBOARD: DP11

LOCATION: ELECT. 1031A **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: Type 1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 800 A **SPECIAL:**
BUS AMPS: 800A

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
UNIT 1024	100 A	2	1	4.4 4.4			2	2	100 A	UNIT 1022
--	--	--	3		4.4 4.4		4	--	--	--
UNIT 1018	100 A	2	5			4.4 4.4	6	2	100 A	UNIT 1016
--	--	--	7	4.4 4.4			8	--	--	--
UNIT 1017	100 A	2	9		4.4 4.4		10	2	100 A	UNIT 1019
--	--	--	11			4.4 4.4	12	--	--	--
UNIT 1021	100 A	2	13	4.4 4.4			14	2	100 A	UNIT 1023
--	--	--	15		4.4 4.4		16	--	--	--
UNIT 1025	100 A	2	17			4.4 4.4	18	2	100 A	UNIT 1020
--	--	--	19	4.4 4.4			20	--	--	--
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			70 kVA	52 kVA	52 kVA				
	TOTAL AMPS:			580 A	435 A	435 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	174000 VA	75.00%	130500 VA		
				CONNECTED LOAD:	174000 VA
				ESTIMATED DEMAND:	130500 VA
				CONNECTED CURRENT:	483 A
				EST. DEMAND CURRENT:	362 A

NOTES:

PANELBOARD: DP11A

LOCATION: ELECT. 1031A **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: Type 1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 800 A **SPECIAL:**
BUS AMPS: 800 A

LOAD DESCRIPTION	BKR	POLES	CKT	PHASE A kVA	PHASE B kVA	PHASE C kVA	CKT	POLES	BKR	LOAD DESCRIPTION
UNIT 1005	100 A	2	1	4.4 4.4			2	2	100 A	UNIT 1003
--	--	--	3		4.4 4.4		4	--	--	--
UNIT 1004	100 A	2	5			4.4 4.4	6	2	100 A	UNIT 1002
--	--	--	7	4.4 4.4			8	--	--	--
UNIT 1008	100 A	2	9		4.4 4.4		10	2	100 A	UNIT 1006
--	--	--	11			4.4 4.4	12	--	--	--
UNIT 1012	100 A	2	13	4.4 4.4			14	2	100 A	UNIT 1010
--	--	--	15		4.4 4.4		16	--	--	--
UNIT 1013	100 A	2	17			4.4 4.4	18	2	100 A	UNIT 1014
--	--	--	19	4.4 4.4			20	--	--	--
UNIT 1007	100 A	2	21		4.4 4.4		22	2	100 A	UNIT 1009
--	--	--	23			4.4 4.4	24	--	--	--
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			74 kVA	74 kVA	70 kVA				
	TOTAL AMPS:			622 A	622 A	580 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	217500 VA	75.00%	163125 VA		
				CONNECTED LOAD:	217500 VA
				ESTIMATED DEMAND:	163125 VA
				CONNECTED CURRENT:	604 A
				EST. DEMAND CURRENT:	453 A

NOTES:

PANELBOARD: DP21

LOCATION: ELECT/DATA 2033 **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: Type 1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 800 A **SPECIAL:**
BUS AMPS: 800 A

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
UNIT 2017	100 A	2	1	4.4 4.4			2	2	100 A	UNIT 2019
--	--	--	3		4.4 4.4		4	--	--	--
UNIT 2021	100 A	2	5			4.4 4.4	6	2	100 A	UNIT 2023
--	--	--	7	4.4 4.4			8	--	--	--
UNIT 2025	100 A	2	9		4.4 4.4		10	2	100 A	UNIT 2024
--	--	--	11			4.4 4.4	12	--	--	--
UNIT 2022	100 A	2	13	4.4 4.4			14	2	100 A	UNIT 2020
--	--	--	15		4.4 4.4		16	--	--	--
UNIT 2018	100 A	2	17			4.4 4.4	18	2	100 A	UNIT 2016
--	--	--	19	4.4 4.4			20	--	--	--
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			35 kVA	26 kVA	26 kVA				
	TOTAL AMPS:			290 A	218 A	218 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	87000 VA	75.00%	65250 VA		
				CONNECTED LOAD:	87000 VA
				ESTIMATED DEMAND:	65250 VA
				CONNECTED CURRENT:	241 A
				EST. DEMAND CURRENT:	181 A

NOTES:
FEED THROUGH FROM DP11

PANELBOARD: DP21A

LOCATION: ELECT/DATA 2033 **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: Type 1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 800 A **SPECIAL:**
BUS AMPS: 800 A

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
UNIT 2002	100 A	2	1	4.4 4.4			2	2	100 A	UNIT 2004
--	--	--	3		4.4 4.4		4	--	--	--
UNIT 2006	100 A	2	5			4.4 4.4	6	2	100 A	UNIT 2008
--	--	--	7	4.4 4.4			8	--	--	--
UNIT 2010	100 A	2	9		4.4 4.4		10	2	100 A	UNIT 2012
--	--	--	11			4.4 4.4	12	--	--	--
UNIT 2014	100 A	2	13	4.4 4.4			14	2	100 A	UNIT 2013
--	--	--	15		4.4 4.4		16	--	--	--
UNIT 2009	100 A	2	17			4.4 4.4	18	2	100 A	UNIT 2007
--	--	--	19	4.4 4.4			20	--	--	--
UNIT 2005	100 A	2	21		4.4 4.4		22	2	100 A	UNIT 2003
--	--	--	23			4.4 4.4	24	--	--	--
UNIT 2000	100 A	2	25	4.4			26			
--	--	--	27		4.4		28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			39 kVA	39 kVA	35 kVA				
	TOTAL AMPS:			332 A	332 A	290 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	113100 VA	75.00%	84825 VA		
				CONNECTED LOAD:	113100 VA
				ESTIMATED DEMAND:	84825 VA
				CONNECTED CURRENT:	314 A
				EST. DEMAND CURRENT:	235 A

NOTES:
FEED THROUGH FROM DP-11A

PANELBOARD: ELSLP01

LOCATION: ELECT 0011 **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 100 A MLO **SPECIAL:**
BUS AMPS: 100 AMPS

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
F9 ELEVATOR ROOM...	20 A	1	1	0.1 0.2			2	1	20 A	F2 AREA A E-LIGHT
EXT. LIGHTING	20 A	1	3		0.1 0.3		4	1	20 A	F0 ELEC ROOM LIGHT
F1 AREA A E-LIGHT	20 A	1	5			0.2 0.4	6	1	20 A	STAIR LIGHTS
F0 AREA B E-LIGHT	20 A	1	7	0.7 1.7			8	1	20 A	DR OPERATORS RM 1030
F2 AREA B E-LIGHT	20 A	1	9		0.6 1.7		10	1	20 A	Other
F2 CORR B LIGHT	20 A	1	11			0.5 0.6	12	1	20 A	F0 AREA A 3-LIGHT
FACP RM 0011	20 A	1	13	0.1			14			
Lighting	20 A	1	15		0.0		16			
F1 AREA B E-LIGHT	20 A	1	17			1.0 0.0	18	1	20 A	Other
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			3 kVA	3 kVA	3 kVA				
	TOTAL AMPS:			23 A	23 A	23 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Lighting	2354 VA	125.00%	2943 VA		
Other	3487 VA	75.00%	2615 VA	**CONNECTED LOAD:**	8137 VA
LITES	2296 VA	125.00%	2870 VA	**ESTIMATED DEMAND:**	8428 VA
				CONNECTED CURRENT:	23 A
				EST. DEMAND CURRENT:	23 A

NOTES:

PANELBOARD: EOSLP01

LOCATION: ELECT 0011 **VOLTAGE:** 120/208 Wye V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** See Fault Current Schedule
MAIN DEVICE: 400 A MLO **SPECIAL:**
BUS AMPS: 400 AMPS

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
SP-1 GARAGE	20 A	1	1	1.2 0.4			2	1	20 A	RCPT - DATA RM 0011A
SP-2 GARAGE	30 A	2	3		1.4 0.4		4	1	20 A	RCPT - DATA RM 0011A
--	--	--	5			1.4 0.4	6	1	20 A	RCPT - DATA RM 0011A
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
EOSLP11	200 A	3	37	3.. 15.9			38	3	200 A	EOSLP21
--	--	--	39		30.4 16.0		40	--	--	--
--	--	--	41			27.0 16.0	42	--	--	--
	TOTAL LOAD:			49 kVA	48 kVA	45 kVA				
	TOTAL AMPS:			412 A	406 A	372 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	18636 VA	75.00%	13977 VA		
Lighting	696 VA	125.00%	870 VA	**CONNECTED LOAD:**	141692 VA
Other	91740 VA	75.00%	68805 VA	**ESTIMATED DEMAND:**	111768 VA
Power	6000 VA	100.00%	6000 VA	**CONNECTED CURRENT:**	393 A
RCPT	12820 VA	89.00%	11410 VA	**EST. DEMAND CURRENT:**	310 A
LITES	378 VA	125.00%	472 VA		
MTR	3922 VA	117.50%	4609 VA		

NOTES:

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WESLEY BRADLEY PARK 2
EAST BROWNSTONE

707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

DJL
DRAWN BY

JLA
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL PANEL SCHEDULES

E5.0

6/22/2023 11:21:34 AM

PANELBOARD: LP11

LOCATION: ELECT. 1031A
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
F2 AREA B CORR RCPT	20 A	1	1	0.2 0.8			2	1	20 A	Lighting
F2 CORR A LIGHT	20 A	1	3		0.4 0.9		4	1	20 A	RCPT
F1 CORR A LIGHT	20 A	1	5			0.5 1.2	6	1	20 A	F1 CORR B LIGHT
F2 AREA B CORR RCPT	20 A	1	7	1.4 1.4			8	1	20 A	F1 COMMON & LOBBY...
F1 B CORR & LOBBY RCPT	20 A	1	9		2.2 1.9		10	2	30 A	FC-2
RCPT	20 A	1	11			1.3 1.9	12	--	--	--
FIREPLACE	20 A	1	13	1.4 0.8			14	2	20 A	FC-8 & BB-A
F2 AREA A CORR RCPT	20 A	1	15		0.5 0.8		16	--	--	--
FF-A	20 A	2	17			1.5 1.5	18	2	20 A	FF-A
--	--	--	19	1.5 1.5			20	--	--	--
FC-3	40 A	2	21		2.8		22			
--	--	--	23			2.8 0.5	24	1	20 A	PAVILION RCPT
CU-1 EXTERIOR	20 A	2	25	1.6 0.5			26	1	20 A	F1 AREA A CORR RCPT
--	--	--	27		1.6 1.6		28	2	20 A	CU-3 EXTERIOR
			29			1.6	30	--	--	--
CU-2	20 A	2	31	1.6 3.8			32	2	50 A	FC-1
--	--	--	33		1.6 3.8		34	--	--	--
CU-7 EXTERIOR	20 A	2	35			1.6 3.8	36	2	50 A	FC-7
--	--	--	37	1.6 3.8			38	--	--	--
FC-6	50 A	2	39		3.8		40			
--	--	--	41			3.8	42			
	TOTAL LOAD:			22 kVA	22 kVA	22 kVA				
	TOTAL AMPS:			184 A	182 A	182 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	26484 VA	75.00%	19863 VA		
Lighting	2012 VA	125.00%	2515 VA	CONNECTED LOAD:	65801 VA
Other	14099 VA	75.00%	10507 VA	ESTIMATED DEMAND:	52955 VA
Power	1000 VA	100.00%	1000 VA	CONNECTED CURRENT:	183 A
RCPT	9000 VA	100.00%	9000 VA	EST. DEMAND CURRENT:	147 A
LITES	196 VA	125.00%	245 VA		

NOTES:

PANELBOARD: EV01

LOCATION: ELECT 0011
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
CAR CHARGER	40 A	2	1	2.5 2.5			2	2	40 A	CAR CHARGER
--	--	--	3		2.5 2.5		4	--	--	--
CAR CHARGER	40 A	2	5			2.5 2.5	6	2	40 A	CAR CHARGER
--	--	--	7	2.5 2.5			8	--	--	--
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			10 kVA	5 kVA	5 kVA				
	TOTAL AMPS:			84 A	42 A	42 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	20051 VA	75.00%	15038 VA		
				CONNECTED LOAD:	20051 VA
				ESTIMATED DEMAND:	15038 VA
				CONNECTED CURRENT:	56 A
				EST. DEMAND CURRENT:	42 A

NOTES:

PANELBOARD: LP01

LOCATION: ELECT 0011
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
F0 AREA A LIGHT	20 A	1	1	1.3 1.0			2	1	20 A	F0 AREA B LIGHT
EXTERIOR BOLLARDS	20 A	1	3		0.6 0.4		4	1	20 A	ROOM 0003
GARAGE DOOR	20 A	2	5			1.6 0.7	6	1	20 A	GARAGE RCPT
--	--	--	7	1.6 1.1			8	1	20 A	STAIR A RCPT
ELEV LOBBY & TRASH...	20 A	1	9		0.9 1.1		10	1	20 A	GARAGE RCPT
RCPT	20 A	1	11			0.5	12			
ELEVATOR ROOM RCPT	20 A	1	13	0.2			14			
FF-A STAIR A1	20 A	2	15		1.5		16			
--	--	--	17			1.5	18			
			19				20			
			21		0.5		22	2	15 A	BB-A, ELEVATOR PIT
			23			0.5	24	--	--	--
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			5 kVA	5 kVA	5 kVA				
	TOTAL AMPS:			43 A	41 A	40 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	3000 VA	75.00%	2250 VA		
Lighting	570 VA	125.00%	713 VA	CONNECTED LOAD:	14913 VA
Other	3320 VA	75.00%	2490 VA	ESTIMATED DEMAND:	14061 VA
Power	1000 VA	100.00%	1000 VA	CONNECTED CURRENT:	41 A
RCPT	4680 VA	100.00%	4680 VA	EST. DEMAND CURRENT:	39 A
LITES	2343 VA	125.00%	2929 VA		

NOTES:

PANELBOARD: LP02

LOCATION: STORAGE 0015
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	PHASE A kVA	PHASE B kVA	PHASE C kVA	CKT	POLES	BKR	LOAD DESCRIPTION
ROOM 0012 RCPT	20 A	1	1	0.9 0.5			2	1	20 A	RCPT
STAIR B RCPT	20 A	1	3		0.7 0.4		4	1	20 A	MECH CONVENIENCE...
ELECT & MECH RCPT	20 A	1	5			0.2 1.0	6	1	20 A	WH-1
CP-1 RM 0013	20 A	1	7	1.2 1.0			8	1	20 A	WH-2
F0 AREA B STORAGE...	20 A	1	9		0.9 0.2		10	1	20 A	UH-A, WATER ROOM
EUH-3	20 A	2	11			1.5 0.5	12	1	20 A	ROOM 0015 RCPT
--	--	--	13	1.5 0.5			14	1	20 A	ROOM 0015 RCPT
ROOM 0015	20 A	1	15		0.4		16			
EF-1	20 A	3	17			0.5	18			
--	--	--	19	0.5 1.6			20	2	20 A	CU-9 EXTERIOR
--	--	--	21		0.5 1.6		22	--	--	--
LITES	20 A	1	23			0.7 1.5	24	2	20 A	FF-A
RCPT - GOLF PRO. RM...	20 A	1	25	1.2 1.5			26	--	--	--
RCPT - GOLF SIM RM 1042	20 A	1	27		0.4		28			
RCPT - GOLF SIM RM 1042	20 A	1	29			0.4	30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	TOTAL LOAD:			10 kVA	5 kVA	6 kVA				
	TOTAL AMPS:			89 A	41 A	54 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	11246 VA	75.00%	8435 VA		
Motor	1450 VA	75.00%	1088 VA	CONNECTED LOAD:	21679 VA
Other	6240 VA	100.00%	6240 VA	ESTIMATED DEMAND:	19191 VA
RCPT	1567 VA	125.00%	1959 VA	CONNECTED CURRENT:	60 A
LITES				EST. DEMAND CURRENT:	53 A

NOTES:

PANELBOARD: EOSLP11

LOCATION: ELECT. 1031A
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
UNIT 2024	20 A	1	1	1.6 1.6			2	1	20 A	UNIT 2022
UNIT 2020	20 A	1	3		1.6 1.6		4	1	20 A	UNIT 2018
UNIT 2016	20 A	1	5			1.6 1.6	6	1	20 A	UNIT 2025
UNIT 2023	20 A	1	7	1.6 1.6			8	1	20 A	UNIT 2021
UNIT 2019	20 A	1	9		1.6 1.6		10	1	20 A	UNIT 2017
UNIT2013	20 A	1	11			1.9 1.9	12	1	20 A	UNIT2014
UNIT2012	20 A	1	13	1.9 1.9			14	1	20 A	UNIT 2009
UNIT 2010	20 A	1	15		1.9 1.9		16	1	20 A	UNIT 2008
UNIT 2007	20 A	1	17			1.9 1.9	18	1	20 A	UNIT 2006
UNIT 2005	20 A	1	19	1.9 1.9			20	1	20 A	UNIT 2004
UNIT 2003	20 A	1	21		1.9 1.9		22	1	20 A	UNIT 2002
UNIT 2000	20 A	1	23			1.9 1.9	24	1	20 A	UNIT 1002
UNIT1004	20 A	1	25	1.9 1.9			26	1	20 A	UNIT 1003
UNIT 1006	20 A	1	27		1.9 1.9		28	1	20 A	UNIT 1005
UNIT 1008	20 A	1	29			1.9 1.9	30	1	20 A	UNIT 1007
UNIT 1010	20 A	1	31	1.9 1.9			32	1	20 A	UNIT 1009
UNIT 1012	20 A	1	33		1.9 1.9		34	1	20 A	UNIT 1013
UNIT 1014	20 A	1	35			1.9 1.6	36	1	20 A	UNIT 1024
UNIT 1022	20 A	1	37	1.9 1.9			38	1	20 A	UNIT 1025
UNIT 1023	20 A	1	39		1.9 1.9		40	1	20 A	UNIT 1020
UNIT 1021	20 A	1	41			1.9 1.9	42	1	20 A	UNIT 1018
UNIT 1019	20 A	1	43	1.9 1.9			44	1	20 A	UNIT 1016
UNIT 1017	20 A	1	45		1.9 1.8		46	1	20 A	ELEVATOR PIT JBOX
ELEVATOR PIT LIGHT	20 A	1	47			0.1 0.2	48	1	20 A	ELEVATOR PIT RCPT
RCPT - LV1 NURSE RPTRS	20 A	1	49	0.9			50			
RCPT - LV1 NURSE RPTRS	20 A	1	51		1.3		52			
RCPT - LV2 NURSE RPTRS	20 A	1	53			0.9	54			
RCPT - LV2 NURSE RPTRS	20 A	1	55	1.3			56			
			57				58			
			59				60			
			61				62			
			63				64			
			65				66			
			67				68			
			69				70			
			71				72			
			73				74			
			75				76			
			77				78			
			79				80			
			81				82			
			83				84			
	TOTAL LOAD:			31 kVA	30 kVA	27 kVA				
	TOTAL AMPS:			266 A	258 A	225 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	84240 VA	75.00%	63180 VA		
RCPT	4500 VA	100.00%	4500 VA	CONNECTED LOAD:	88822 VA
LITES	82 VA	125.00%	102 VA	ESTIMATED DEMAND:	67782 VA
				CONNECTED CURRENT:	247 A
				EST. DEMAND CURRENT:	188 A

NOTES:

PANELBOARD: EOSLP21

LOCATION: CLUB ELECT. 2036A
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MAIN CB
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V. 3 ø 4 W.
A.I.C. RATING: See Fault Current Schedule
SPECIAL:

LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT	POLES	BKR	LOAD DESCRIPTION
ROOM 2036 FRIDGE RCPT	20 A	1	1	0.2 0.4			2	1	20 A	GAMEROOM LIGHTS
2036...	20 A	1	3		0.4 0.6		4	1	20 A	F2 CLUBROOM LIGHT
RCPT	20 A	1	5			0.4 0.9	6	1	20 A	ROOM 1042 GEN RCPT
ROOM 2036 GEN RCPT	20 A	1	7	1.1 1.1			8	1	20 A	ROOM 1042 GEN RCPT
ROOM 1042 GEN RCPT	20 A	1	9		1.3 0.3		10	2	15 A	FC-4 RM 1039
ROOM 2036 GEN RCPT	20 A	1	11			0.9 0.3	12	--	--	--
CU-10 EXTERIOR	20 A	2	13	1.6 0.4			14	1	20 A	ROOM 1042 COUNTER...
--	--	--	15		1.6 2.0		16	2	25 A	CU-4 EXTERIOR
CU-5 EXTERIOR	20 A	2	17			1.6 2.0	18	--	--	--
--	--	--	19	1.6 0.5			20	2	15 A	BB-A, GAME ROOM 1042
ROOM 2036 COUNTER...	20 A	1	21		0.4 0.5		22	--	--	--
ROOM 2036 ISLAND RCPT	20 A	1	23			0.4 0.5	24	2	15 A	BB-A, GAME ROOM1042
			25	0.5			26	--	--	--
BB-A, GAME ROOM 1042	15 A	2	27		0.5 0.5		28	2	15 A	BB-A, CLUB ROOM 2036
--	--	--	29			0.5 0.5	30	--	--	--
BB-A, CLUB RM, 2036	15 A	2	31	0.5 3.8			32	2	50 A	FC-10, CLUB ROOM
--	--	--	33		0.5 3.8		34	--	--	--
BB-A, CLUB ROOM 2036	15 A	2	35			0.5 3.8	36	2	50 A	FC-9
--	--	--	37	0.5 3.8			38	--	--	--
FC-5 RM 1042	50 A	2	39		3.8		40			
--	--	--	41			3.8	42			
			43				44			
			45				46			
			47				48			
			49				50			
			51				52			
			53				54			
			55				56			
			57				58			
			59				60			
	TOTAL LOAD:			16 kVA	16 kVA	16 kVA				
	TOTAL AMPS:			133 A	133 A	133 A				

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	18636 VA	75.00%	13977 VA		
Lighting	696 VA	125.00%	870 VA	CONNECTED LOAD:	47868 VA
Other	7500 VA	75.00%	5625 VA	ESTIMATED DEMAND:	39707 VA
Power	6000 VA	100.00%	6000 VA	CONNECTED CURRENT:	133 A
RCPT	7240 VA	100.00%	7240 VA	EST. DEMAND CURRENT:	110 A
LITES	296 VA	125.00%	370 VA		

NOTES:

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RICHARD D. BECKER STATE OF WASHINGTON 22028534 REGISTERED PROFESSIONAL ENGINEER

Richard D. Becker
Signature

Richard D. Becker
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Electrical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

DJL
DRAWN BY

JLA
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

ELECTRICAL PANEL SCHEDULES

E5.1

6/22/2023 11:21:36 AM

Mechanical plans

MECHANICAL SYMBOL SCHEDULE

MISCELLANEOUS

SYMBOL	DESCRIPTION
	CONNECT TO EXISTING
	FLOOR ELEVATION POINT
1	KEY NOTE
P2A	PLUMBING FIXTURE ID
R-XX	DOM. WATER RISER SYMBOL
W-XX	WASTE RISER SYMBOL
H-XX	HYDRONIC RISER SYMBOL
XXX	MECHANICAL EQUIPMENT
XX	EQUIPMENT BY OTHERS
	IN-LINE PUMP
X	REVISION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BCW	BOOSTED COLD WATER
BHW	BOOSTED HOT WATER
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
BOFA	BOTTOM OF FLOOR ABOVE
CA	COMBUSTION AIR
CONT	CONTINUATION
CO	CLEAN OUT
CS	COUNTER SINK
CW	COLD WATER
CWB	CONDENSATE WALL BOX
DN	DOWN
DIA	DIAMETER
DSN	DOWN SPOUT NOZZLE
DTL	DETAIL
EA	EXHAUST AIR
ECM	ELECTRONICALLY COMMUTATED MOTOR
FSEC	FOOD SERVICE EQUIP. CONTR.
FFE	FINISHED FLOOR ELEVATION
FCW	FILTERED COLD WATER
FU	FIXTURE UNITS
GC	GENERAL CONTRACTOR
HW	HOT WATER
HCW	HARD COLD WATER
KS	KITCHEN SINK
LAV	LAVATORY
INV	INVERT ELEVATION
MS	MOP SINK
NIC	NOT IN CONTRACT
NP	NON-POTABLE
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SD	STORM DRAINAGE SYSTEM
SF	SQUARE FEET
SHR	SHOWER
SS	SANITARY SEWER SYSTEM
SV	STACK VENT
TTFD	TELL-TALE FLOOR DRAIN
UNO	UNLESS NOTED OTHERWISE
V	VENT
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WS	SANITARY WASTE STACK

VALVES AND PIPE FITTINGS

SYMBOL	DESCRIPTION
	SHUT-OFF VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE OR RPZ
	FLOW FITTING
RHW	DOMESTIC RECIRCULATING HOT WATER BALANCING ASSEMBLY
	CHECK VALVE
	BALANCING FULL PORT BALL VALVE
	VALVE IN VERTICAL
	BALL/BALANCING VALVE
	HOSE BIB OR WALL HYDRANT
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	PIPE CAP
	UNION
	STRAINER
	PIPE ANCHOR
	EXPANSION JOINT
	PIPE GUIDE
CO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
	GAS PRESSURE REGULATOR
	WATER PRESSURE REGULATOR
	FLOW DIRECTION
	CONTROL VALVE
	3 WAY CONTROL VALVE
S	SOLENOID VALVE
3" 4"	INCREASER OR REDUCER
M	WATER OR GAS METER

PLUMBING AND PIPE LABELS

SYMBOL	DESCRIPTION
(C)RD	ROOF DRAIN (CONTROL FLOW)
OFD	OVERFLOW DRAIN
	DOWNSPOUT DISCHARGE
	FLOOR DRAIN
FS	FLOOR SINK
BWV	BACK WATER CHECK VALVE
	SHOCK ARRESTOR
	PIPE BREAK
SS	SAN SEWER-ABOVE GRADE
SS	SAN SEWER-BELOW GRADE
GW	GREASE WASTE
FW	FLAMMABLE WASTE
FV	FLAMMABLE WASTE VENT
V	SANITARY VENT
CW	DOMESTIC COLD WATER
HCW	HARD COLD WATER
HW	DOMESTIC HOT WATER
RHW	DOMESTIC RECIRCULATING HOT WATER
180	DOMESTIC HOT WATER 180°F
O_2	OXYGEN
VAC	MEDICAL VAC
IG	NATURAL INTERRUPTABLE GAS
G	NATURAL FIRM GAS
HG	NATURAL GAS - HOUSE METER
PG	PROPANE GAS
DT	BUILDING DRAIN TILE
SD	STORM DRAIN - ABOVE GRADE
SD	STORM DRAIN - BELOW GRADE
OSD	OVERFLOW STORM DRAIN -ABOVE GRADE
RV	RADON VENT

HEATING

SYMBOL	DESCRIPTION
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWRR	HOT WATER REVERSE RETURN
GWS	GLYCOL WATER SUPPLY
GWR	GLYCOL WATER RETURN

AIR CONDITIONING

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CD	CONDENSATE DRAIN PIPE

TEMPERATURE CONTROL AND SENSORS

SYMBOL	DESCRIPTION
T	THERMOSTAT
H	HUMIDISTAT
S	SPACE TEMPERATURE SENSOR
CO	CARBON MONOXIDE SENSOR
CO NO2	CARBON MONOXIDE & NITROGEN DIOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
PS	PRESSURE SENSOR
	THERMOMETER

SHEET METAL

SYMBOL	DESCRIPTION
	AIR SUPPLY
	RETURN OR EXHAUST AIR
24/12	DUCT, WIDTH/DEPTH
12"ø	DUCT, DIAMETER
	DUCT, FLEXIBLE TO RIGID
	DUCT AIR SUPPLY, UP
	DUCT AIR RETURN OR EXHAUST, UP
	DUCT AIR SUPPLY, DOWN
	DUCT AIR RETURN OR EXHAUST, DOWN
	DUCT BREAK
	CEILING DIFFUSER
	LINEAR DIFFUSER
	WALL/SOFFIT REGISTER
	RETURN/EXHAUST AIR GRILLE
F S	FIRE/SMOKE DAMPER
S D	SMOKE DAMPER
F D	FIRE DAMPER
R D	CEILING RADIATION DAMPER
B	GRAVITY BACKDRAFT DAMPER
M	MOTORIZED DAMPER
	BALANCING DAMPER
	CAPPED DUCT
	FLEXIBLE CONNECTION
A 24/12 250	REGISTER/DIFFUSER A (TYPE) 24/12 (SIZE) 250 (CFM)
H 10 400	DIFFUSER H (TYPE) 10"(NECK DIA.) 400 (CFM)
C 24/24	RETURN AIR GRILLE C (TYPE) 24/24 (SIZE)
C1-2-10 250	LINEAR DIFFUSER C1 (TYPE) 2 (# SLOTS) 10" (NECK DIA.), 250 (CFM)

NOTE: NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.

F:\LIB\SCHEDULESECHSYMSCH.DWG 3/8/19

GENERAL PLUMBING NOTES

A. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS. NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER.

B. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.

C. PLACEMENT OF EQUIPMENT AND DEVICES SHALL NOT INTERFERE WITH LOCATION NOR CLEARANCES OF OTHER TRADE'S MATERIALS OR EQUIPMENT.

D. CONTRACTOR SHALL PROVIDE PIPE OFFSETS AND TRANSITIONS AS REQUIRED TO ACCOMMODATE STRUCTURE AND ARCHITECTURE.

E. COORDINATE LOCATION AND ELEVATION OF ALL EXTERIOR WALL AND ROOF PENETRATIONS WITH ARCHITECT.

F. PRIOR TO INSTALLING PLUMBING VENTS THRU ROOF, COORDINATE WITH ARCHITECT TO MEET APPEARANCE REQUIREMENTS.

G. ALL BRANCH TAKE-OFFS SHALL HAVE ISOLATION SHUT-OFF VALVES.

H. RESIDENTIAL UNDERCOUNTER DISHWASHER DISCHARGE LINE SHALL HAVE AIR-GAP DEVICE. INSTALL ON COUNTER-TOP. LOCATE TO THE REAR OF THE COUNTER-TOP AND COORDINATE WITH GENERAL CONTR. REFER TO SPEC SEC 22 10 00.

I. PROVIDE A PLASTIC FLOOR DRAIN IN AREAS WHERE CONDENSATE DISCHARGES FROM HIGH EFFICIENCY EQUIPMENT, SUCH AS SEALED COMBUSTION WATER HEATERS.

J. THIS CONTRACTOR TO PROVIDE COMBINATION HOT AND COLD FAUCETS THAT HAVE THREADED OUTLETS WITH INTERNAL CHECK VALVES OR IN-LINE CHECK VALVES INSTALLED UPSTREAM IN THE BRANCH LINES SERVING THIS TYPE OF FAUCET. THIS INCLUDES THE COMBINATION FAUCETS SUPPLIED BY FOOD SERVICE EQUIPMENT SUPPLIERS.

K. ALL FLOOR DRAINS AND PLUMBING FIXTURES LOCATED BELOW STREET CURB ELEVATION AT SANITARY SEWER EXIT LOCATION SHALL HAVE BACKWATER CHECK VALVES.

L. ALL DOMESTIC HOT AND COLD WATER PEX PIPING SHALL MAINTAIN A 2" SPACING AND HAVE INDIVIDUAL FLOOR AND WALL PENETRATIONS.

M. FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE PROVIDED WITH A 4" HIGH CONCRETE PAD BY THIS CONTRACTOR. EXTEND A MINIMUM OF 2" BEYOND THE EDGE OF THE EQUIPMENT.

N. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES AS WELL AS ALL LINE VOLTAGE AND LOW VOLTAGE WIRING NECESSARY TO INSTALL AND MAKE FULLY OPERATIONAL SPECIFIED CONTROL SYSTEMS, UNLESS NOTED OTHERWISE.

GENERAL HVAC NOTES

A. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL PLANS AND SPECIFICATIONS. PLACEMENT OF EQUIPMENT AND DEVICES SHALL NOT INTERFERE WITH LOCATIONS OR CLEARANCES OF OTHER TRADE'S MATERIALS OR EQUIPMENT.

B. ALL SYSTEMS, MATERIAL AND INSTALLATION SHALL MEET STATE AND LOCAL CODES.

C. CONTRACTOR SHALL PROVIDE PIPE AND DUCT OFFSETS AND TRANSITIONS AS REQUIRED TO ACCOMMODATE STRUCTURE AND ARCHITECTURE.

D. RETURN GRILLES SHALL BE PROVIDED WITH LINED BOOT AND ELBOW FITTINGS.

E. FLOOR MOUNTED HVAC EQUIPMENT SHALL BE PROVIDED WITH A 4" HIGH CONCRETE PAD THAT EXTENDS A MINIMUM 2" BEYOND EDGE OF EQUIPMENT. PADS SHALL BE PROVIDED BY THIS CONTRACTOR.

F. DUCT SIZES SHOWN ARE FREE AREA. INCREASE DUCT SIZE AS REQUIRED TO ACCOMMODATE INTERNAL INSULATION.

G. KITCHEN HOODS ARE FURNISHED BY OTHERS AND INSTALLED BY MECHANICAL CONTRACTOR. VERIFY EXACT NECK SIZES AND MAKE ALL NECESSARY CONNECTIONS TO HOOD(S) AS SHOWN.

H. PROVIDE 3/4" CONDENSATE RUNOUT FOR EACH FAN COIL SHOWN. PITCH PIPING 1/8" PER FOOT. SEE HVAC PLANS AND RISERS FOR ROUTING AND ADDITIONAL SIZING.

I. COORDINATE SPACE SENSOR/THERMOSTAT LOCATIONS WITH OTHER TRADES AND ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.

J. TAKE-OFFS TO ALL SUPPLY DIFFUSERS AND GRILLES SHALL HAVE MANUAL BALANCING DAMPERS.

K. DUCT RUNOUTS ARE EQUAL TO GRILLE AND DIFFUSER NECK SIZES SHOWN UNLESS INDICATED OTHERWISE.

L. PROVIDE ISOLATION VALVES AT EACH PIECE OF EQUIPMENT AND AT EACH BRANCH TAKE OFF FROM PIPING MAINS.

M. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES AS WELL AS ALL LINE VOLTAGE AND LOW VOLTAGE WIRING NECESSARY TO INSTALL AND MAKE FULLY OPERATIONAL SPECIFIED CONTROL SYSTEMS, UNLESS NOTED OTHERWISE.

MECHANICAL SHEET INDEX

SHEET	DESCRIPTION
M0.0	MECHANICAL TITLE SHEET
M1.0AA	LOWER LEVEL WASTE & VENT PLAN AREA A
M1.0AB	LOWER LEVEL WASTE & VENT PLAN AREA B
M1.0BA	LOWER LEVEL DOMESTIC WATER & GAS PLAN AREA A
M1.0BB	LOWER LEVEL DOMESTIC WATER & GAS PLAN AREA B
M1.1A	LEVEL ONE PLUMBING PLAN AREA A
M1.1B	LEVEL ONE PLUMBING PLAN AREA B
M1.2A	LEVEL TWO PLUMBING PLAN AREA A
M1.2B	LEVEL TWO PLUMBING PLAN AREA B
M2.0A	LOWER LEVEL HVAC PLAN AREA A
M2.0B	LOWER LEVEL HVAC PLAN AREA B
M2.1A	LEVEL ONE HVAC PLAN AREA A
M2.1B	LEVEL ONE HVAC PLAN AREA B
M2.2A	LEVEL TWO HVAC PLAN AREA A
M2.2B	LEVEL TWO HVAC PLAN AREA B
M3.0	HVAC UNITS
M3.1	HVAC UNITS
M3.2	HVAC UNITS
M4.0	PLUMBING RISERS
M4.1	PLUMBING RISERS
M5.0	MECHANICAL DETAILS
M5.1	MECHANICAL DETAILS
ME1.0	MECHANICAL EQUIPMENT SCHEDULES
ME1.1	MECHANICAL EQUIPMENT SCHEDULES

GENERAL MECHANICAL SITE NOTES

A. MECHANICAL CONTRACTOR SHALL PROVIDE WATER, FIRE SPRINKLER AND SANITARY SEWER SERVICES 5'-0" OUT FROM THE BUILDING FOOTPRINT. COORDINATE EXACT LOCATION OF NEW SERVICES WITH OTHER UTILITY SERVICES AND CIVIL ENGINEER. CONTRACTOR SHALL EXCAVATE, INSTALL, BACKFILL, COMPACT AND PATCH TO MATCH EXISTING. REFER TO CIVIL ENGINEER'S PLAN FOR CONTINUATION OF SERVICES ON SITE AND REFER TO BUILDING INSTALL AND CONNECT PER CITY REQUIREMENTS. SEE CIVIL ENGINEER'S PLAN FOR SERVICE INTO BUILDING.

B. REFER TO MECHANICAL PLANS FOR LOCATION OF OUTSIDE AIR COOLED CONDENSERS LOCATED AT VARIOUS LOCATIONS AROUND THE BUILDING(S)

C. MECHANICAL CONTRACTOR TO PROVIDE WATER AND SANITARY SERVICE FROM THE CITY MAINS TO THIS BUILDING. COORDINATE EXACT LOCATION OF NEW SERVICE WITH OTHER UTILITY SERVICES. INSTALL AND COMPACT PER CITY REQUIREMENTS. CONTRACTOR SHALL EXCAVATE, INSTALL, BACKFILL, COMPACT AND PATCH AS REQUIRED BY THE CITY.

All mechanical and plumbing to be included in this submittal. Provide kitchen hood in calculations and installation in plans. No portion can be deferred.
Page M0.0

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Mark R. Brengman
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Mechanical — Discipline
04/28/23 — Date

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EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

MJW/DCA — DRAWN BY
RDB — CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

MECHANICAL TITLE SHEET

M0.0

6/22/2023 11:21:37 AM

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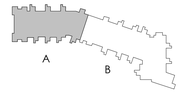

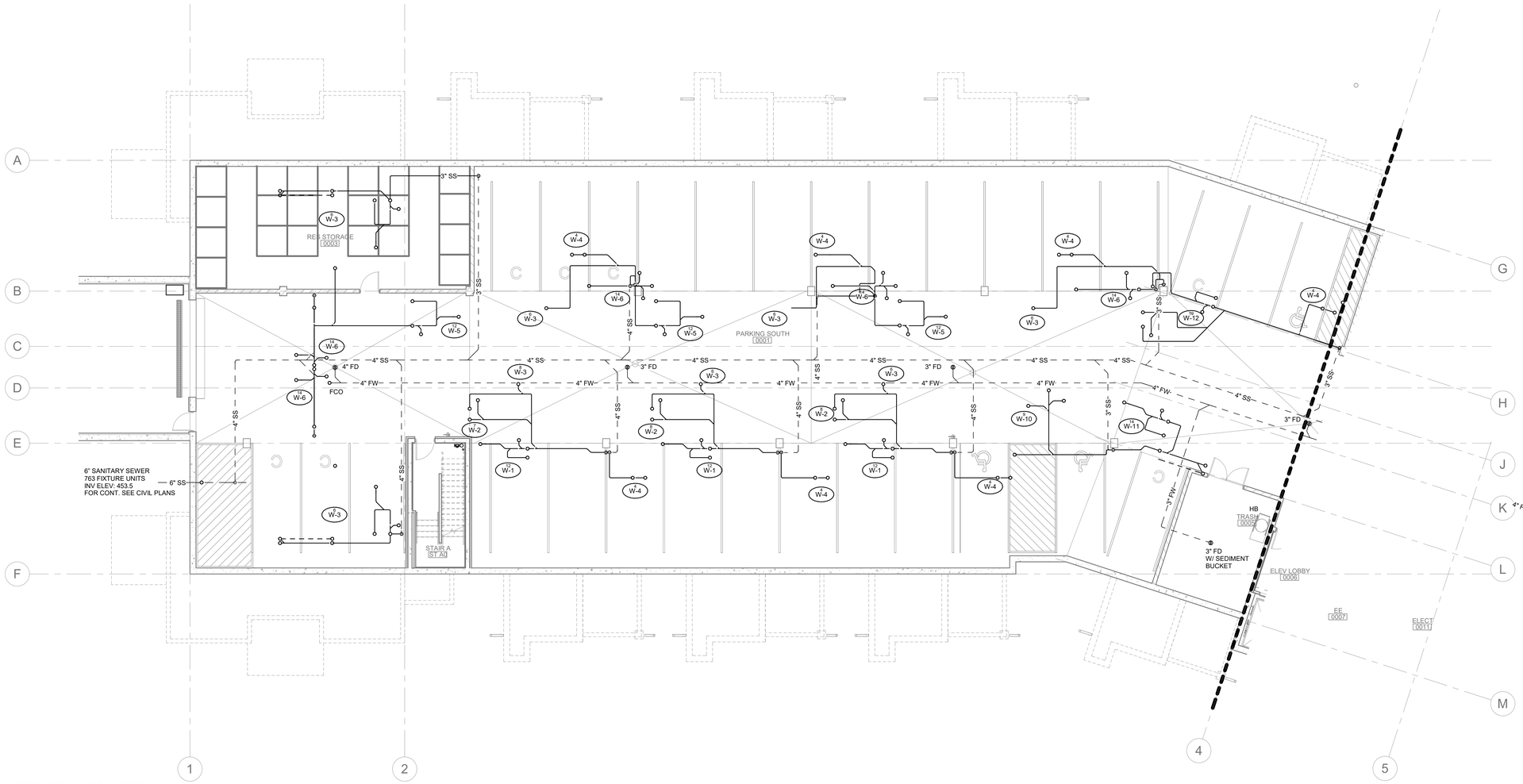

1 LOWER LEVEL WASTE & VENT PLAN
AREA A
1/8" = 1'-0"

PROVIDE REFERENCE TO W 1-12 FOR EASY REFERENCE ON ALL SHEETS AS NOT LOCATED ON SHEET M0.0
PAGE M1.0AA

Sheets M1.0AA through M1.2B will be reviewed by engineering after receiving an updated plumbing fixture worksheet. [Brownstone MEP Permit Set v_2(2) Sheet M1.0AA]

NORTH

REFER TO SHEET M0.0 FOR NOTES

6/22/2023 11:21:41 AM

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45586
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Signature
Mark R. Brengman
Typed or Printed Name
Mechanical
Discipline
04/28/23
Date

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EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

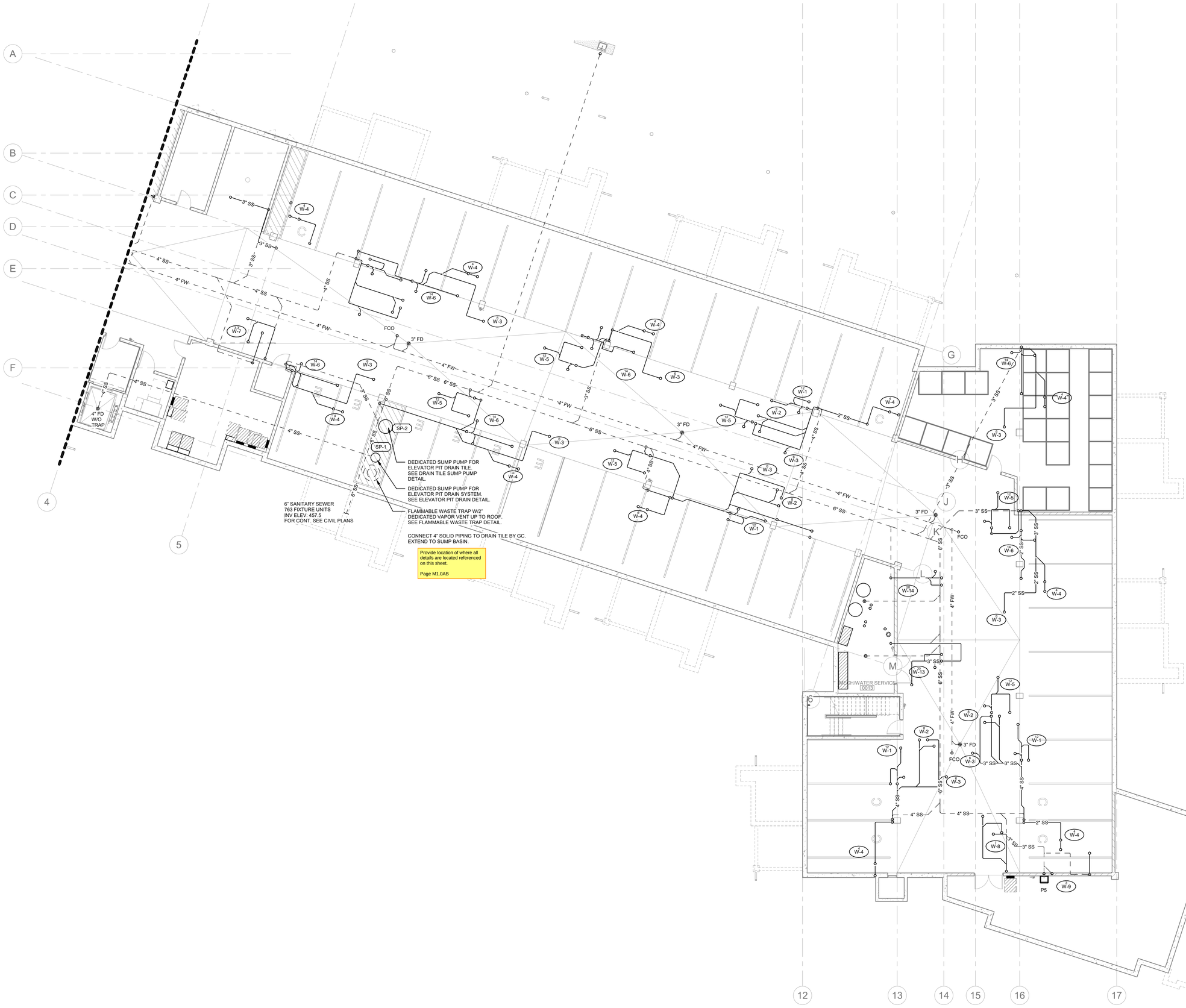
ISA202201
PROJECT NUMBER

MJW
DRAWN BY
RDB
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

LOWER LEVEL WASTE & VENT PLAN AREA A

M1.0AA



1 LOWER LEVEL WASTE & VENT PLAN AREA B
1/8" = 1'-0"

REFER TO SHEET M0.0 FOR NOTES

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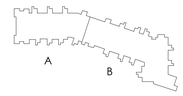

MARK R. BRENGMAN
STATE OF WASHINGTON
45586
REGISTERED PROFESSIONAL ENGINEER

Signature

Mark R. Brengman
Typed or Printed Name

Mechanical — Discipline
04/28/23 — Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
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PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

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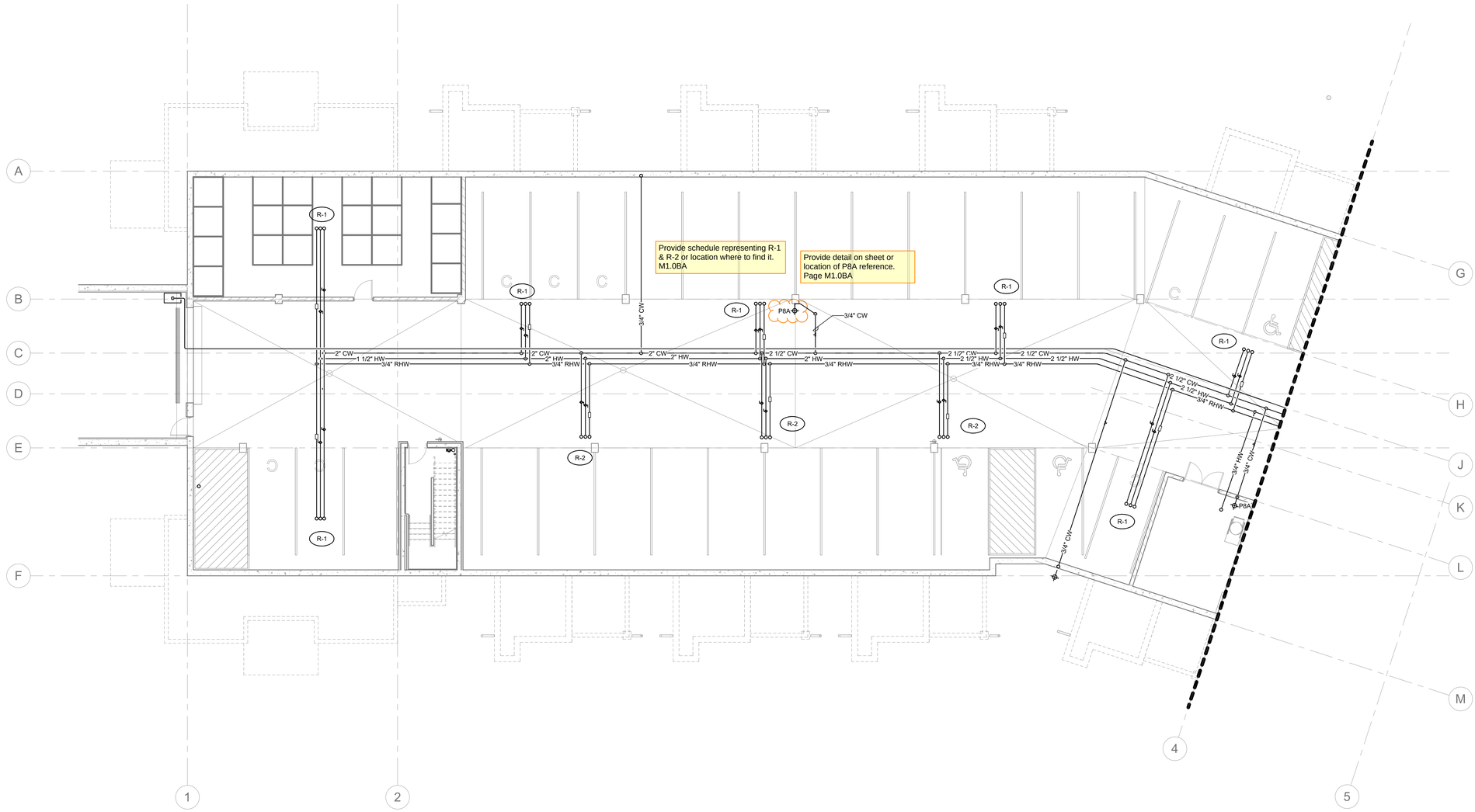
WESLEY BRADLEY PARK 2
EAST BROWNSTONE

LOWER LEVEL WASTE & VENT PLAN AREA B

M1.0AB



1 LOWER LEVEL WATER & GAS PLAN AREA A
1/8" = 1'-0"

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Mechanical
Discipline

04/28/23
Date

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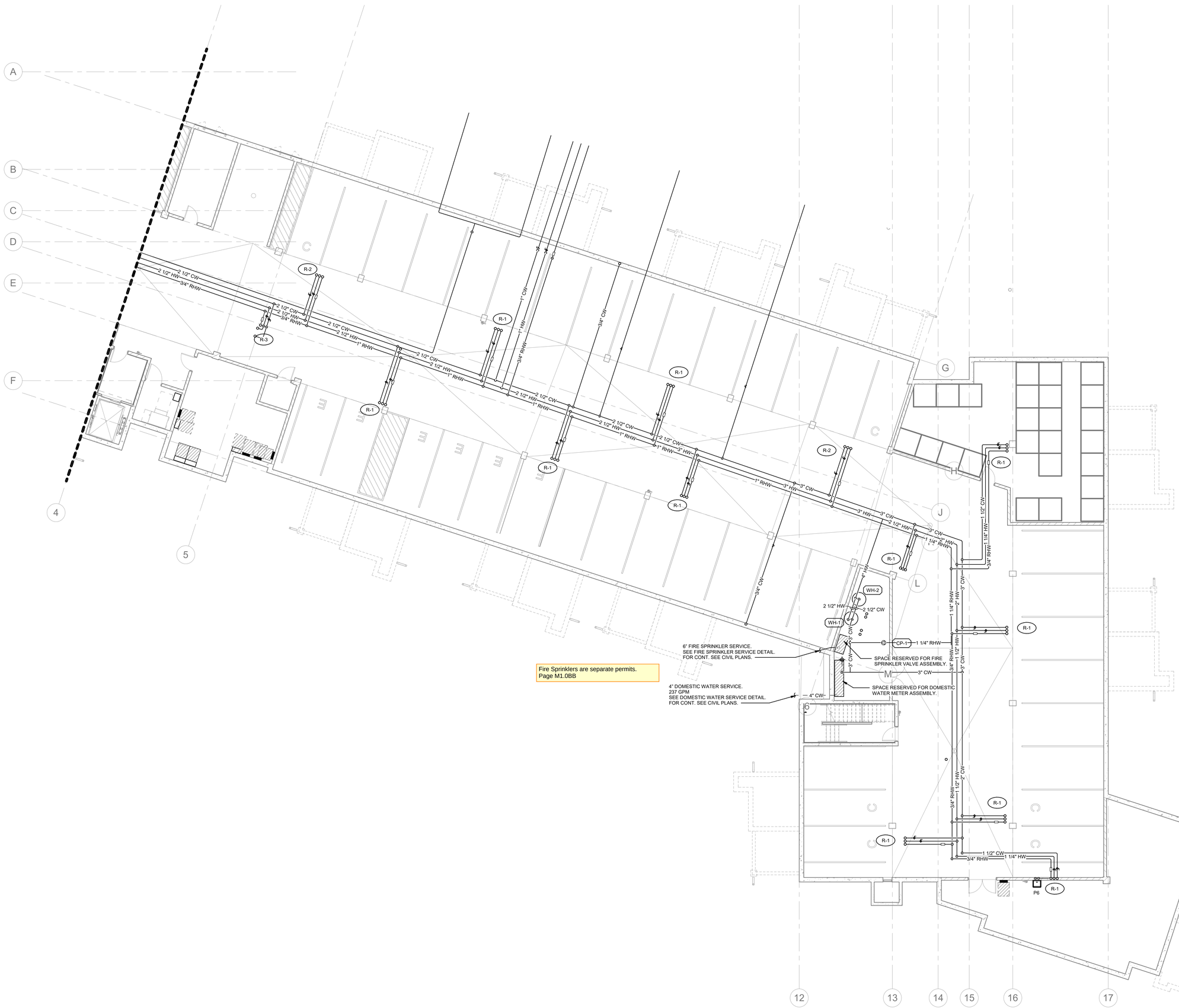
LOWER LEVEL DOMESTIC WATER & GAS PLAN AREA A

M1.0BA



LOWER LEVEL WATER & GAS PLAN

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LOWER LEVEL DOMESTIC WATER & GAS PLAN AREA B

M1.0BB

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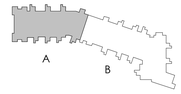

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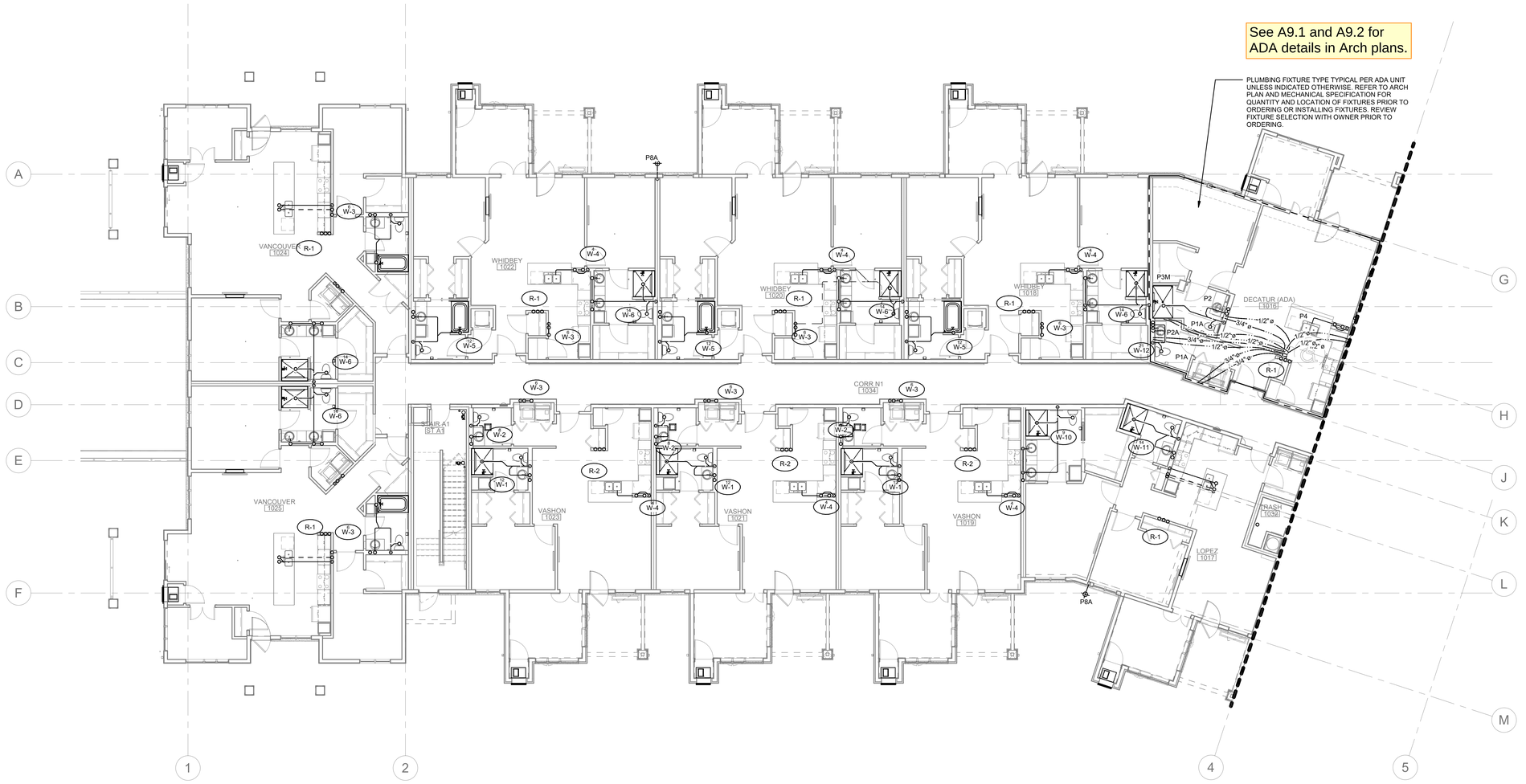
See A9.1 and A9.2 for ADA details in Arch plans.



1 LEVEL 1 PLUMBING PLAN AREA A
1/8" = 1'-0"

NORTH

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LEVEL ONE PLUMBING
PLAN AREA A

M1.1A

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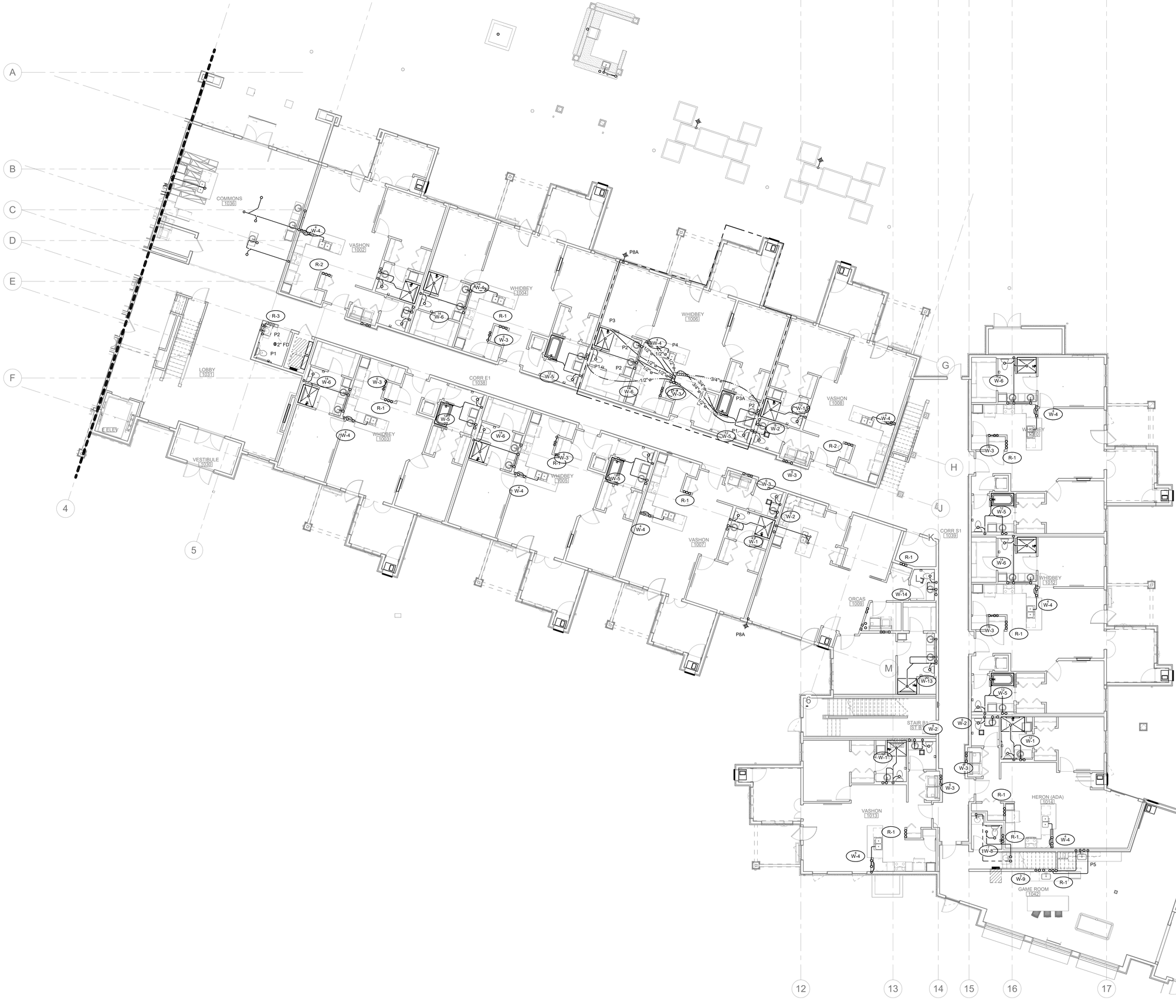

1 LEVEL 1 PLUMBING PLAN AREA B
1/8" = 1'-0"

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Mechanical
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LEVEL ONE PLUMBING
PLAN AREA B

M1.1B

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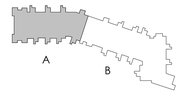

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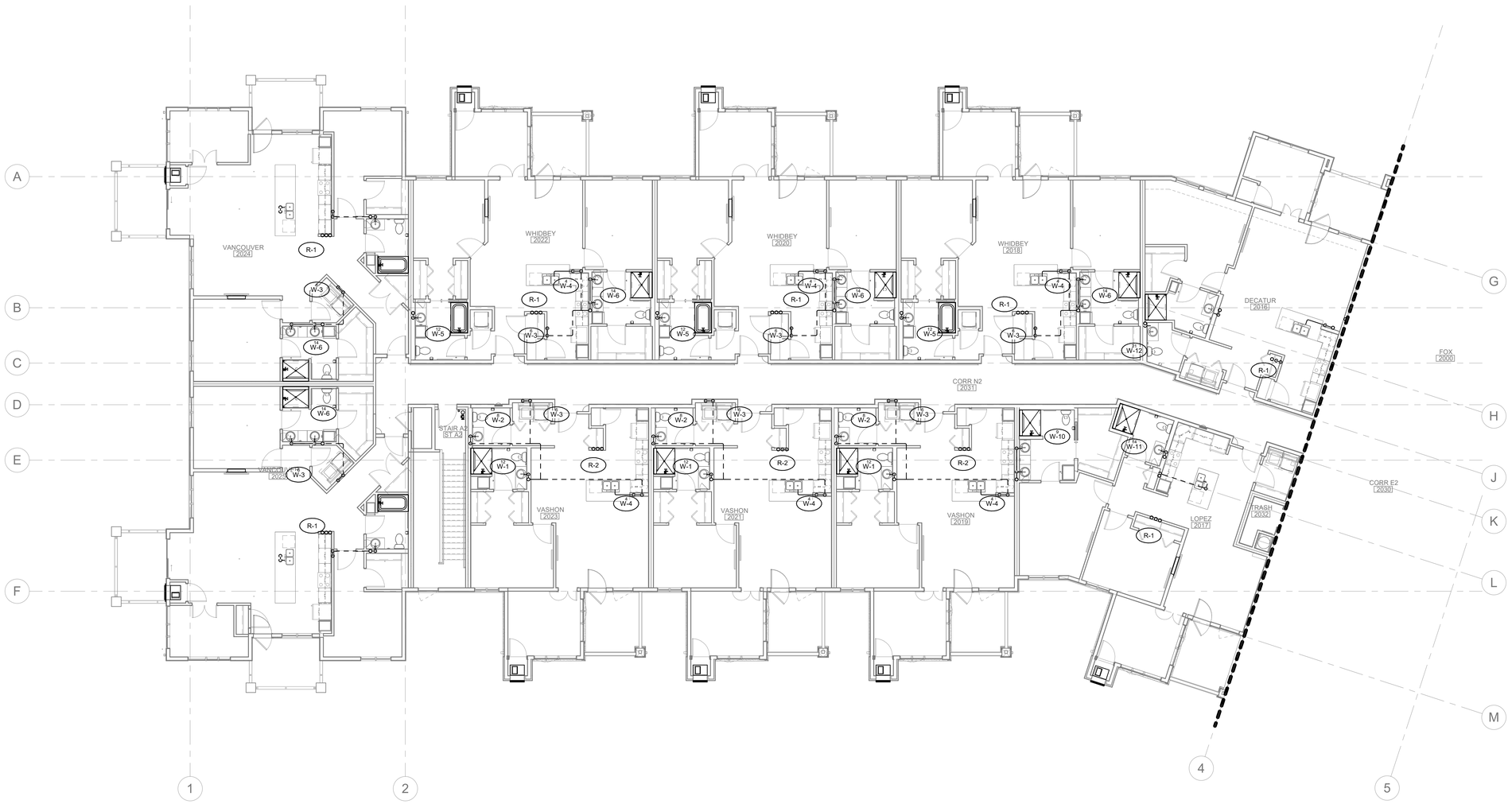

1 LEVEL 2 PLUMBING PLAN AREA A
1/8" = 1'-0"

NORTH

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LEVEL TWO PLUMBING
PLAN AREA A

M1.2A

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NORTH

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1 LEVEL 2 PLUMBING PLAN AREA B
1/8" = 1'-0"

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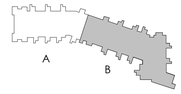

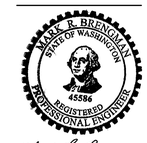

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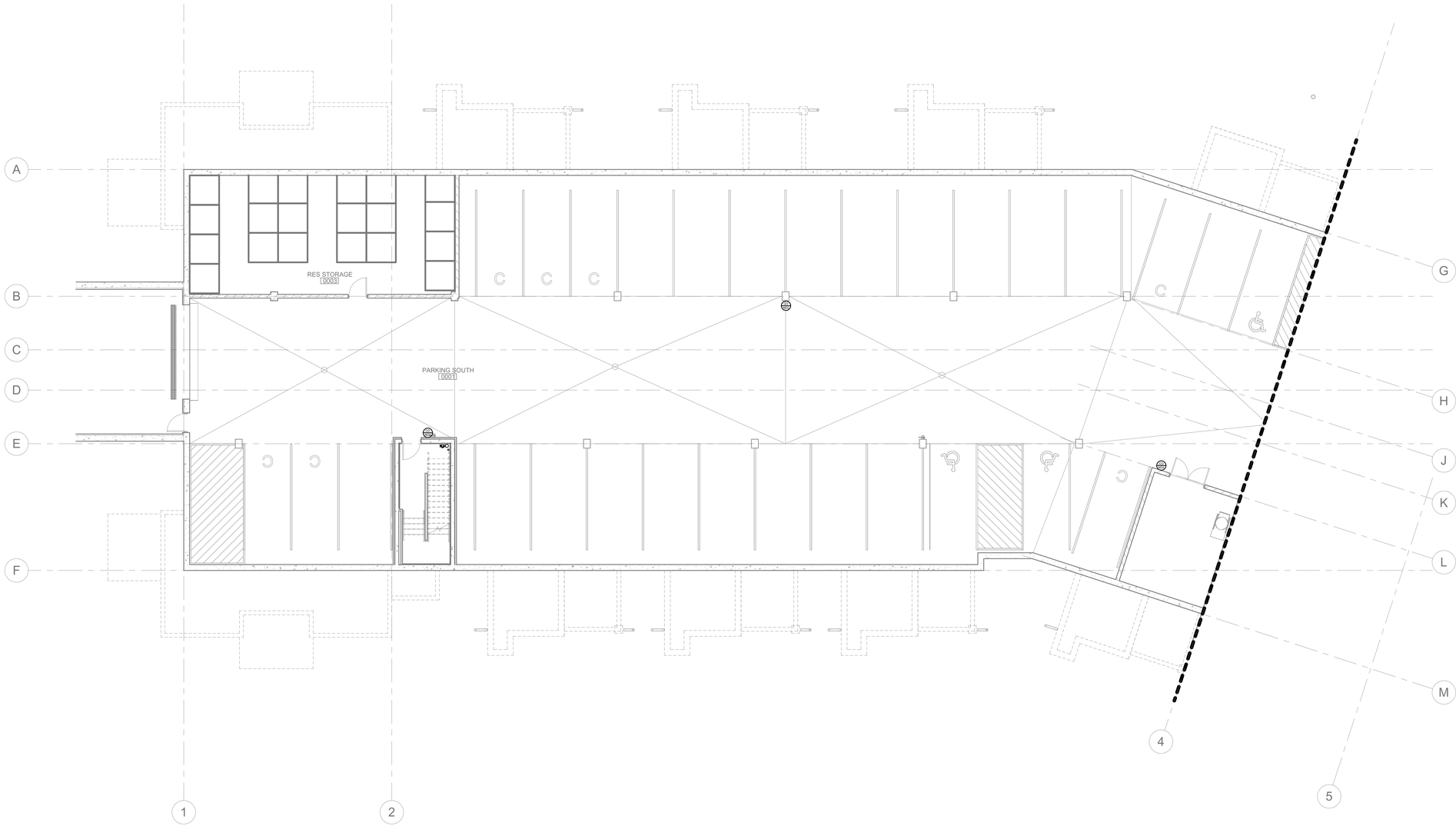
LEVEL TWO PLUMBING
PLAN AREA B

M1.2B



1 LOWER LEVEL HVAC PLAN AREA A
1/8" = 1'-0"

REFER TO SHEET M0.0 FOR NOTES

NORTH

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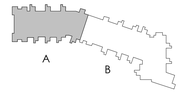

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Discipline

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LOWER LEVEL HVAC PLAN
AREA A

M2.0A

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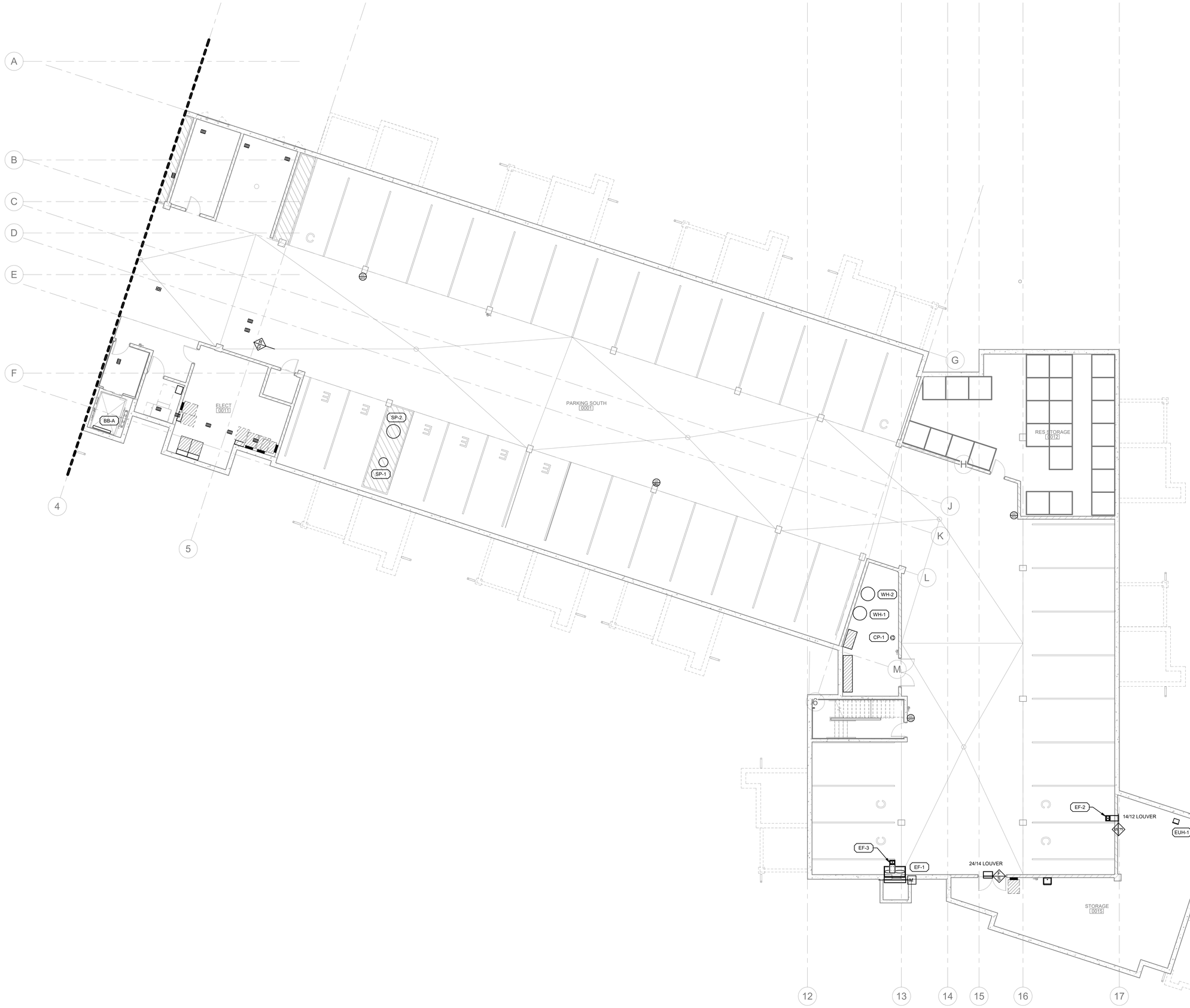

1 LOWER LEVEL HVAC PLAN AREA B
1/8" = 1'-0"

NORTH

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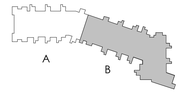

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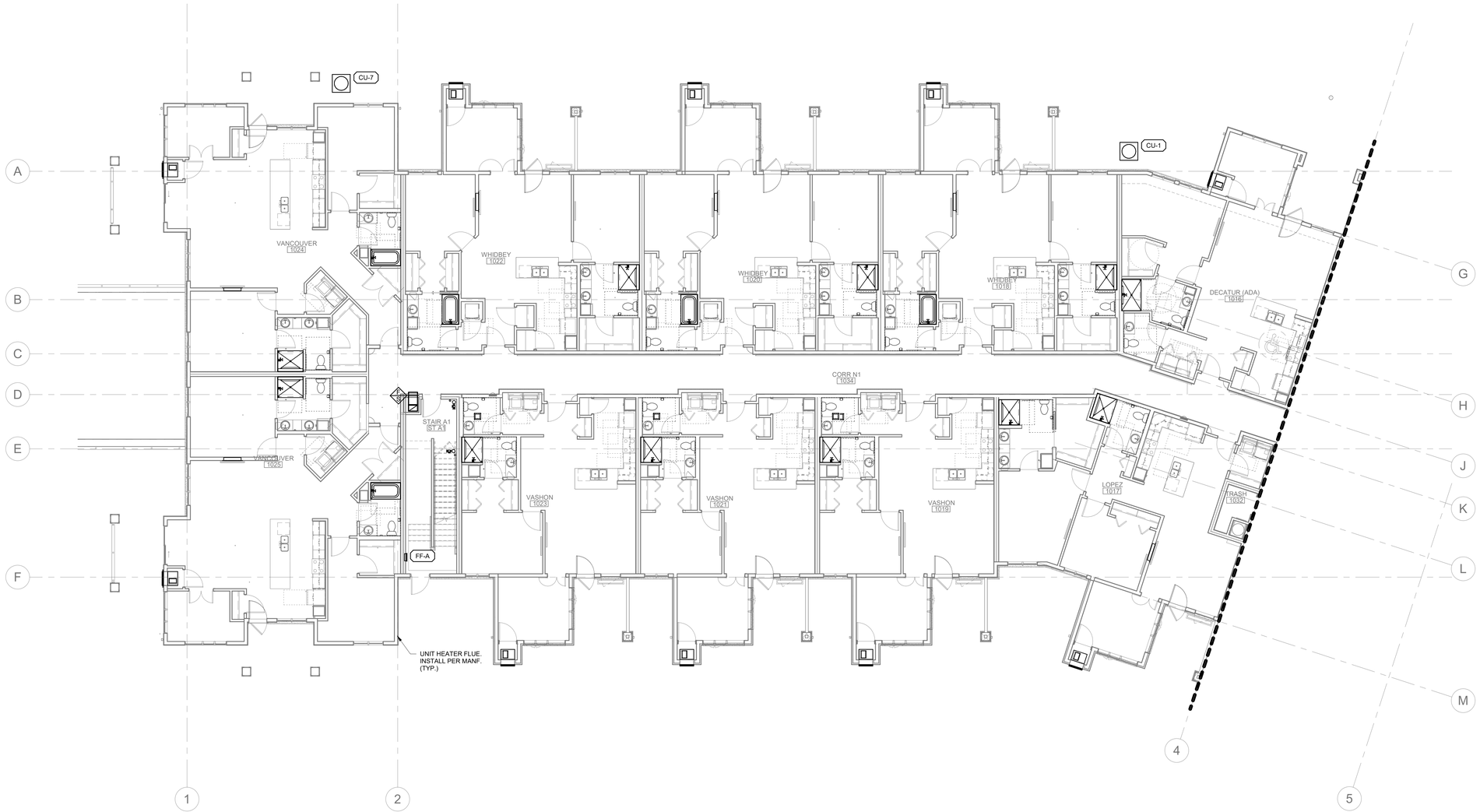
WESLEY BRADLEY PARK 2
EAST BROWNSTONE

LOWER LEVEL HVAC PLAN
AREA B

M2.0B



1 LEVEL 1 HVAC PLAN AREA A
1/8" = 1'-0"

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A B

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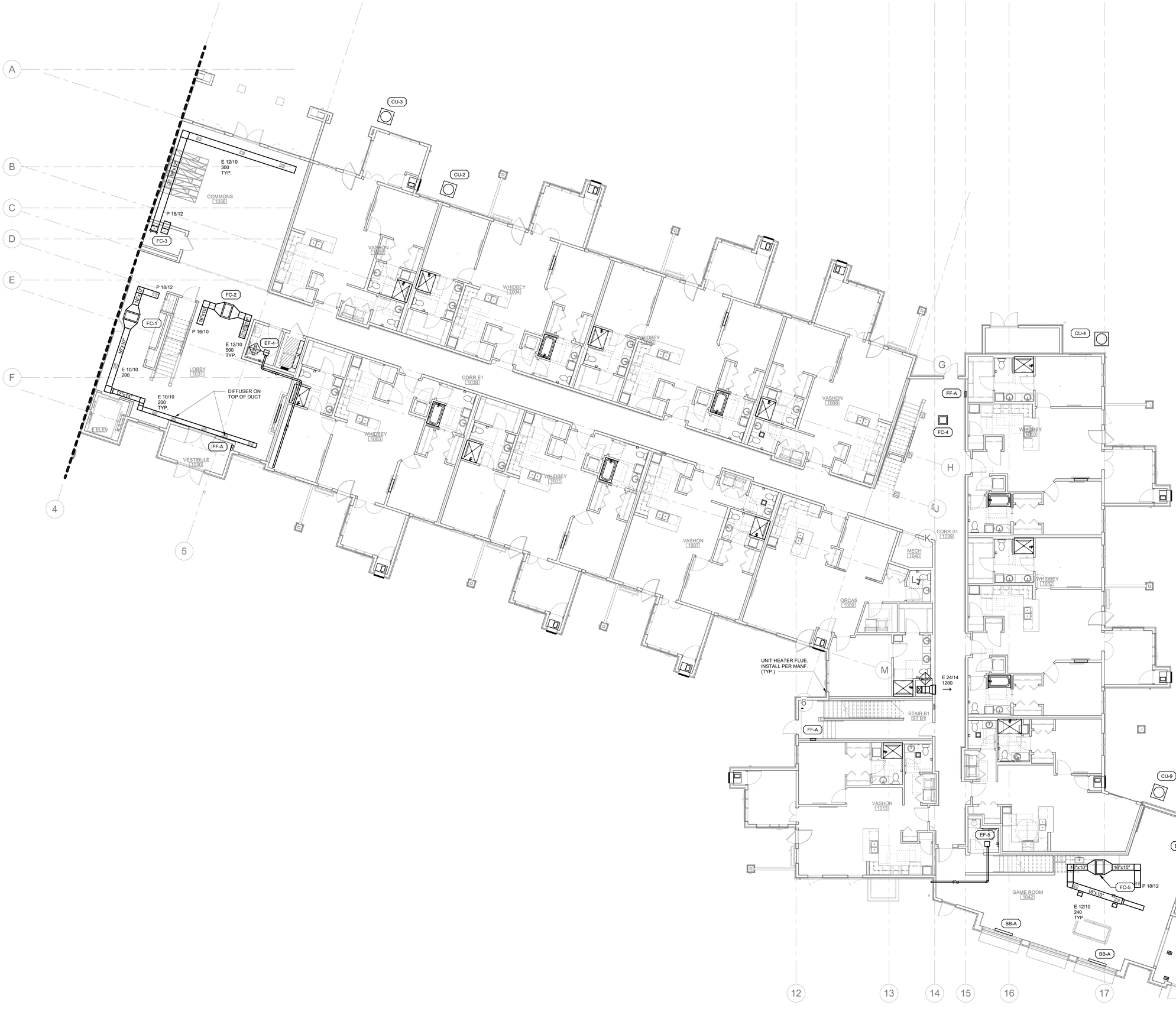
WESLEY BRADLEY PARK 2
EAST BROWNSTONE

LEVEL ONE HVAC PLAN
AREA A

M2.1A



1 LEVEL 1 HVAC PLAN AREA B
1/8" = 1'-0"

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WESLEY BRADLEY PARK 2
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LEVEL ONE HVAC PLAN
AREA B

M2.1B

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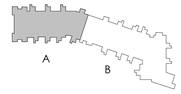

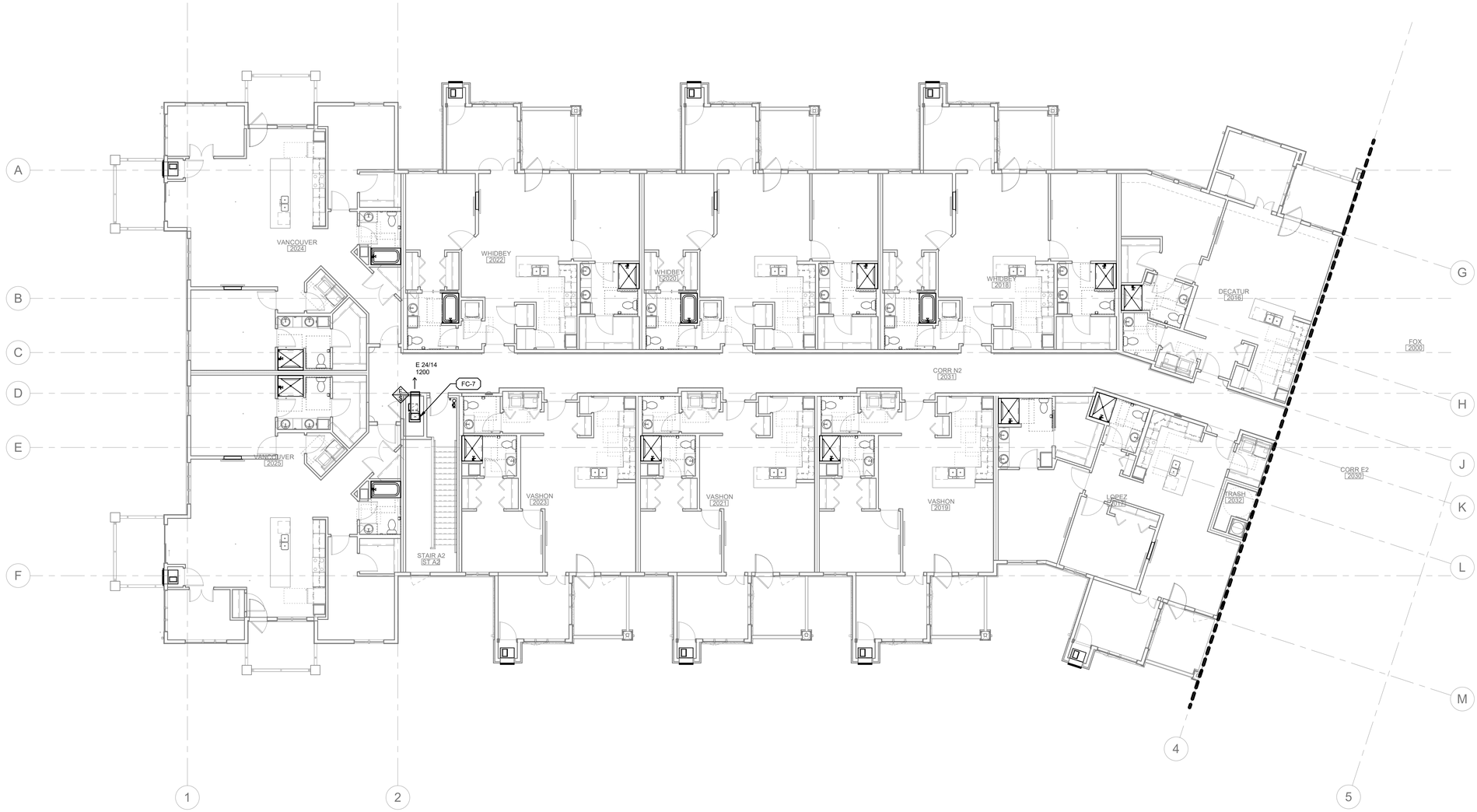

1 LEVEL 2 HVAC PLAN AREA A
1/8" = 1'-0"

NORTH

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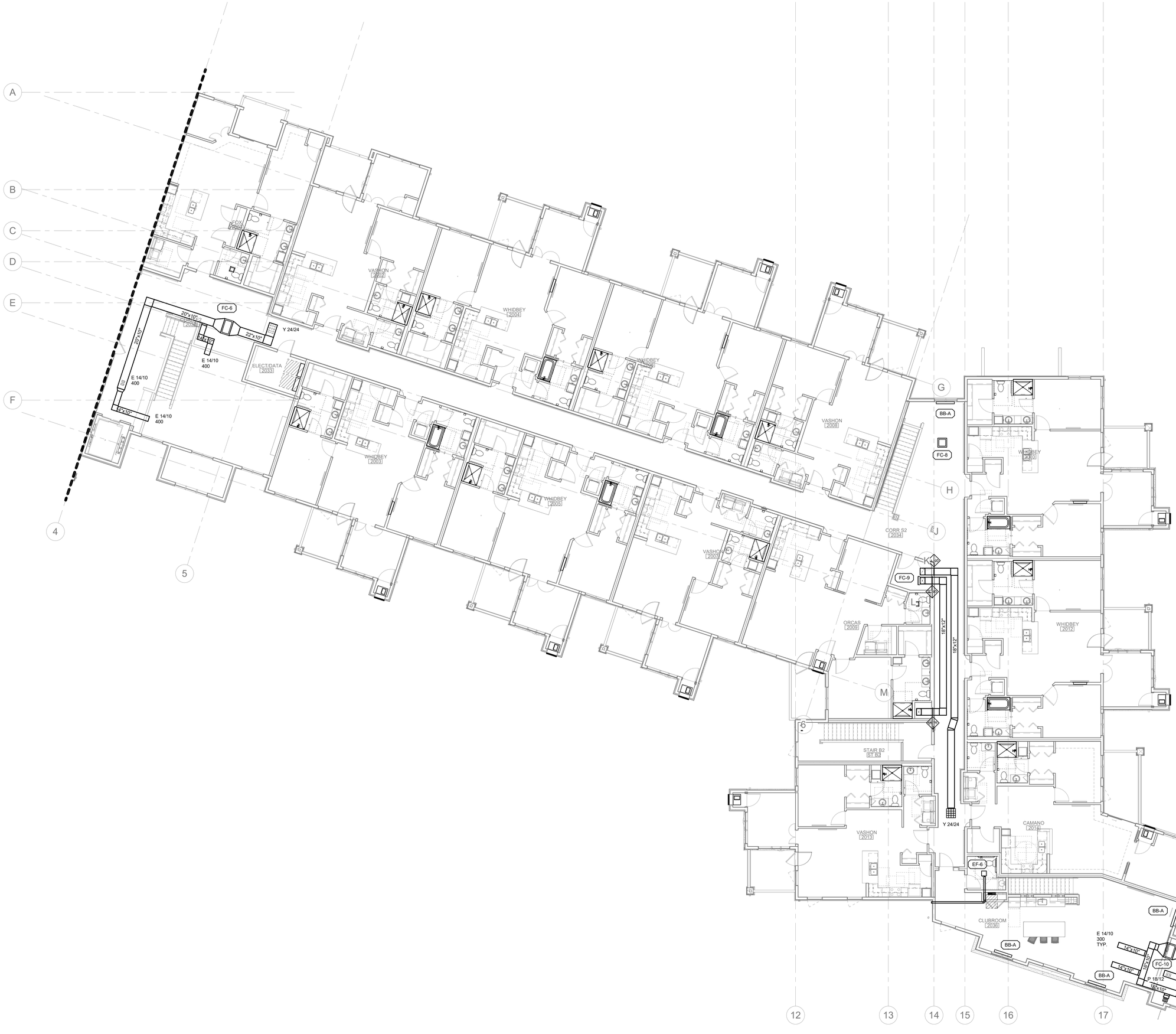
LEVEL TWO HVAC PLAN
AREA A

M2.2A



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2 LEVEL 2 HVAC PLAN AREA B
1/8" = 1'-0"

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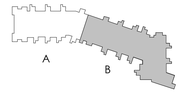

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WESLEY BRADLEY PARK 2
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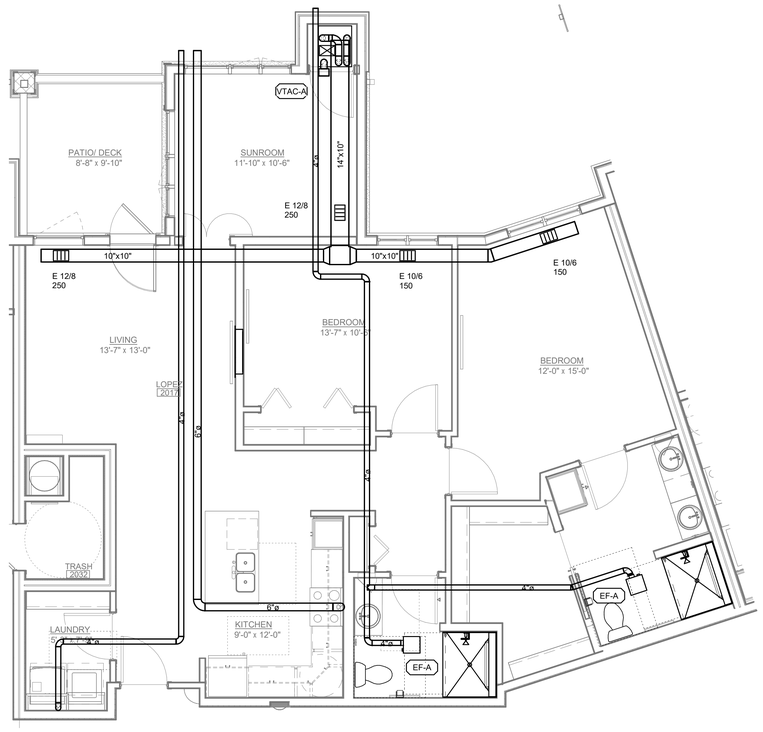
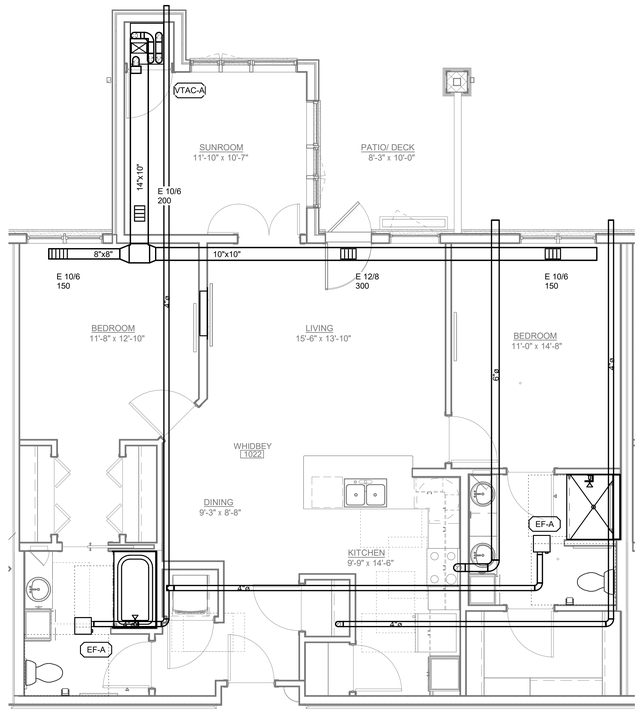
LEVEL TWO HVAC PLAN
AREA B

M2.2B



1 IL UNIT - LOPEZ MECHANICAL PLAN
1/4" = 1'-0"



2 IL UNIT - WHIDBEY MECHANICAL PLAN
1/4" = 1'-0"

Provide Booster fan manufactures specification to assure installed correctly.
M3.0

GENERAL HVAC UNIT NOTES

A. COORDINATE DUCT AND SOFFIT LOCATIONS AND HEIGHTS WITH GENERAL CONTRACTOR.

B. PROVIDE OUTSIDE/FRESH AIR LOUVER AND 4"Ø CONNECTION WITH MANUAL BALANCING DAMPER TO RETURN AIR DUCT. PROVIDE CODE REQUIRED MINIMUM CLEARANCE BETWEEN FRESH AIR AND EXHAUST/VENT PENETRATIONS AND OPERABLE WINDOWS.

C. PROVIDE BOOSTER FANS FOR ALL THE DRYER VENTS THAT EXCEEDS THE MANUFACTURER'S RECOMMENDED LENGTH.

D. GENERAL CONTRACTOR SHALL PROVIDE METAL STUDS MECHANICAL CLOSETS AND WALL CAVITIES USED AS A RETURN PLENUM. COMBUSTIBLE CONSTRUCTION MATERIALS CANNOT BE EXPOSED WITHIN A PLENUM RETURN.

E. PROVIDE 4" ROUND DRYER EXHAUST DUCT AND TOILET EXHAUST SIDEWALL TO WALL CAP ON 1ST AND 2ND FLOORS.

F. PROVIDE WALL THERMOSTAT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER AND ARCHITECT.

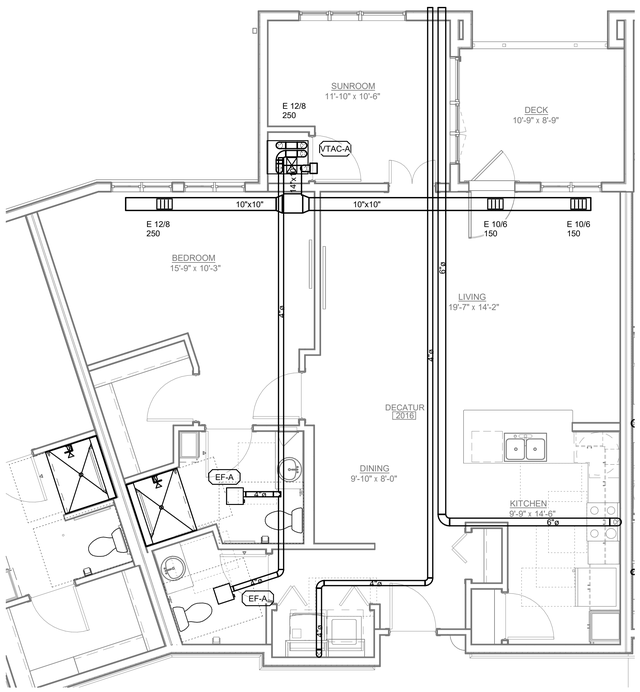
G. DOORS SHALL BE UNDERCUT TO ALLOW RETURN AIR BACK TO COMFORT-PAK/MAGIC-PAK UNIT CLOSETS.

H. SUPPLY REGISTER SCHEDULE: (TYPE E)

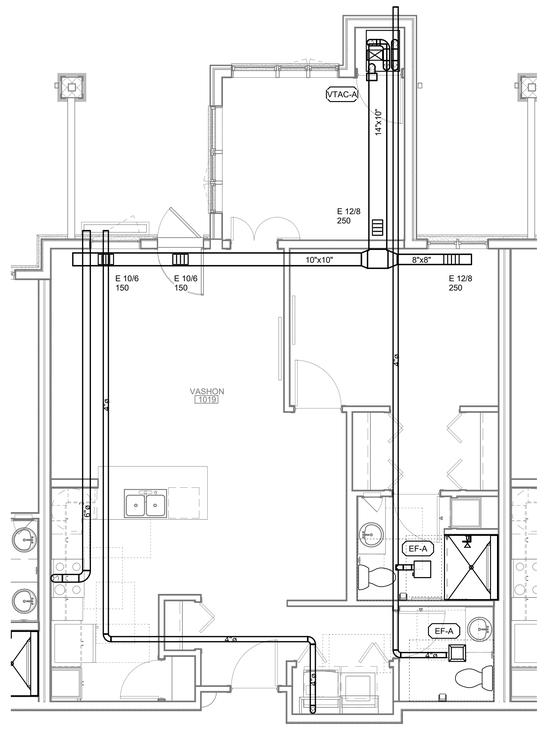
0-150 CFM	8/6
151-200 CFM	10/6
201-250 CFM	12/8
251-300 CFM	16/8

I. RETURN GRILLE SCHEDULE: (TYPE U)

400 CFM	16/16
600 CFM	20/16
800 CFM	24/20
1000 CFM	24/24



3 IL UNIT - DECATUR MECHANICAL PLAN
1/4" = 1'-0"



4 IL UNIT - VASHON MECHANICAL PLAN
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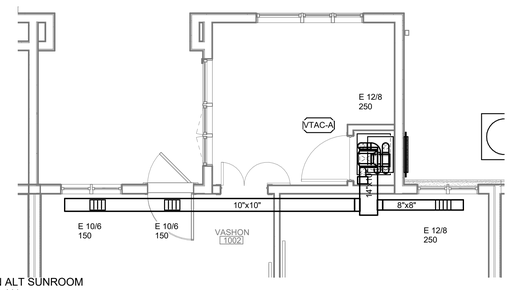

5 IL UNIT - VASHON ALT SUNROOM MECHCANICAL PLAN
1/4" = 1'-0"

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MARK R. BRENGMAN STATE OF WASHINGTON 45586 REGISTERED PROFESSIONAL ENGINEER

Signature

Mark R. Brengman
Typed or Printed Name

Mechanical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

DCA
DRAWN BY

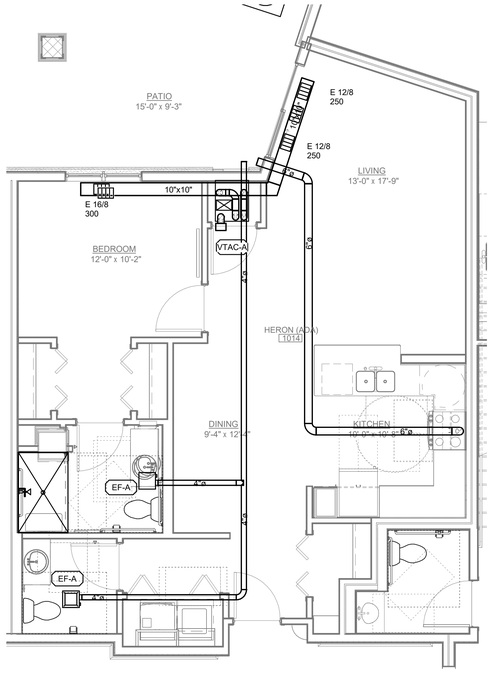
MRB
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

HVAC UNITS

M3.0

6/22/2023 11:22:27 AM



1 IL UNIT - HERON MECHANICAL PLAN
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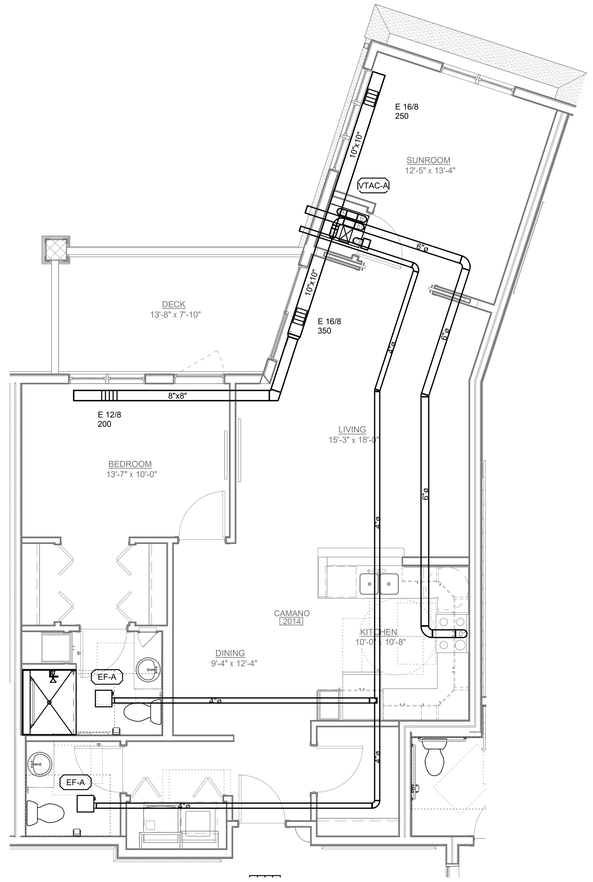

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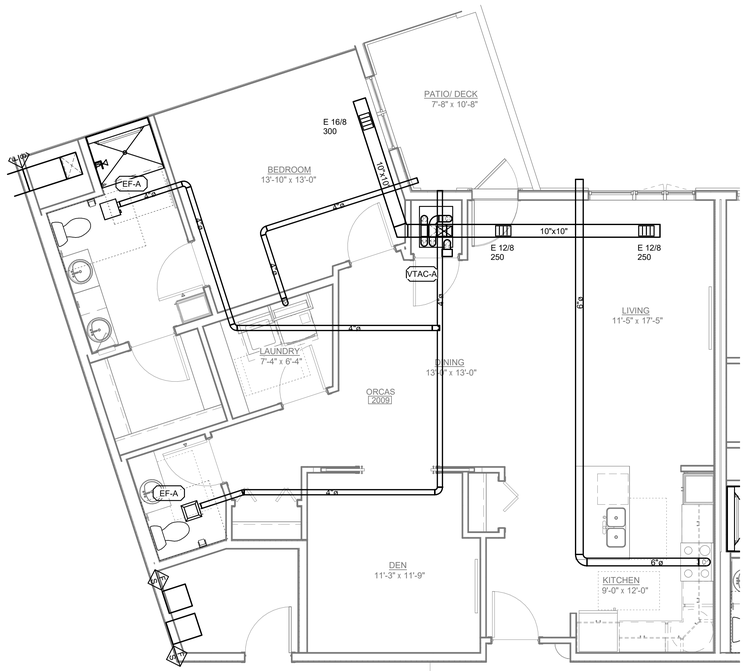

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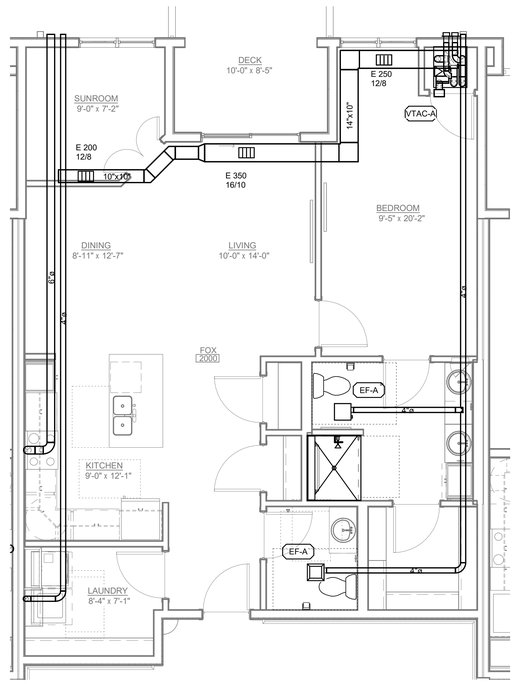

4 IL UNIT - FOX MECHANICAL PLAN
1/4" = 1'-0"

REFER TO SHEET M3.0 FOR NOTES

6/22/2023 11:22:29 AM

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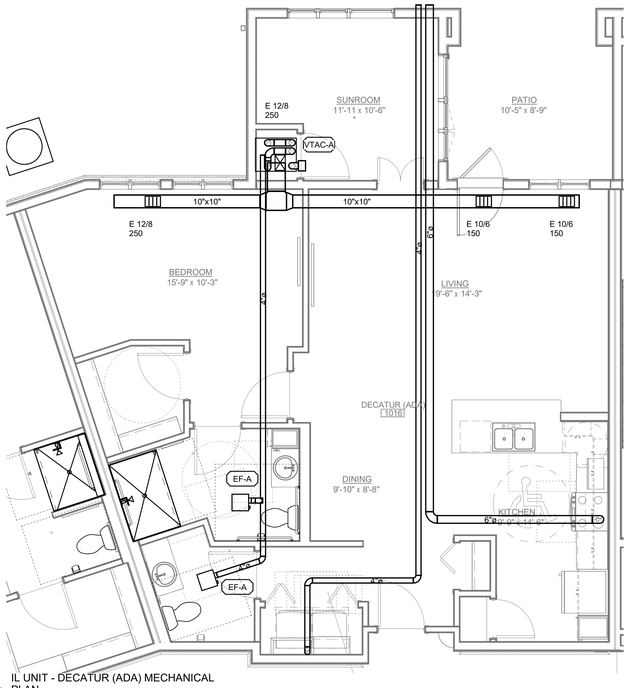
WESLEY BRADLEY PARK 2
EAST BROWNSTONE

HVAC UNITS

M3.1



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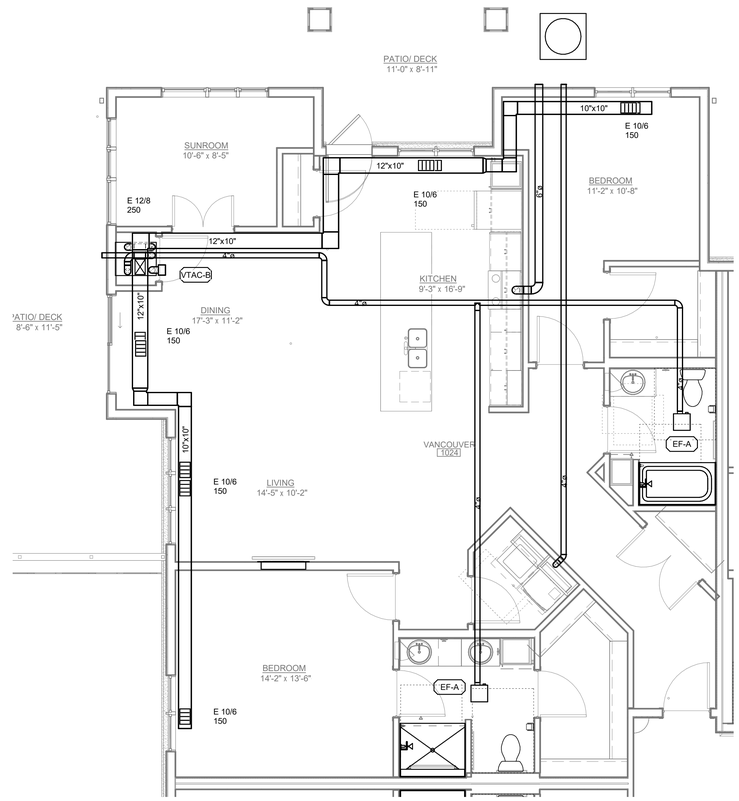

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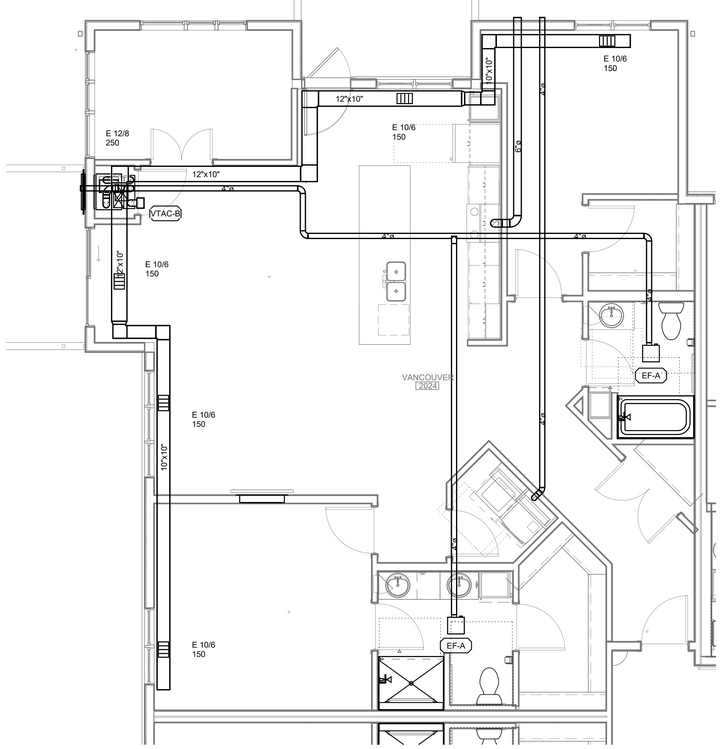

3 x IL UNIT - VANCOUVER_OPT MECHANICAL PLAN
1/4" = 1'-0"

REFER TO SHEET M3.0 FOR NOTES

6/22/2023 11:22:31 AM

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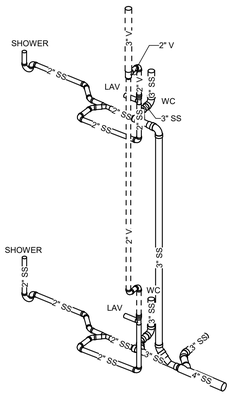
EAST BROWNSTONE

HVAC UNITS

M3.2



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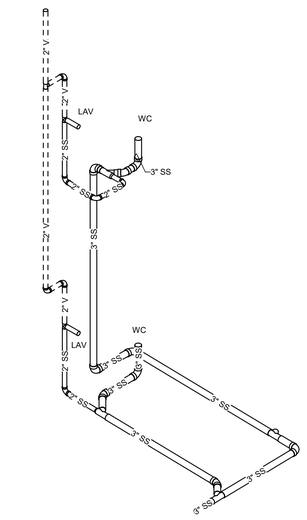

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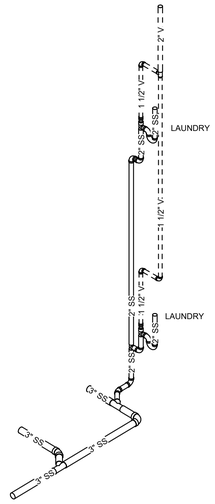

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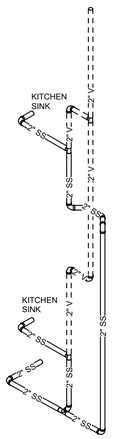

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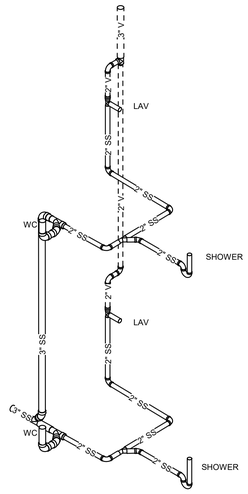

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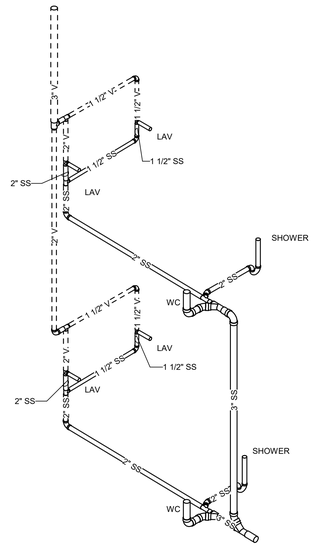

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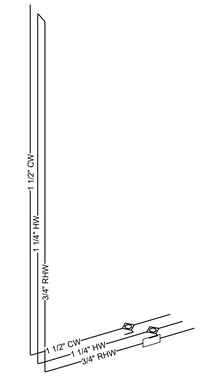

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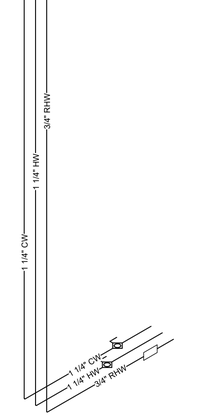

8 R-2
NOT TO SCALE

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MJW
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RDB
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WESLEY BRADLEY PARK 2
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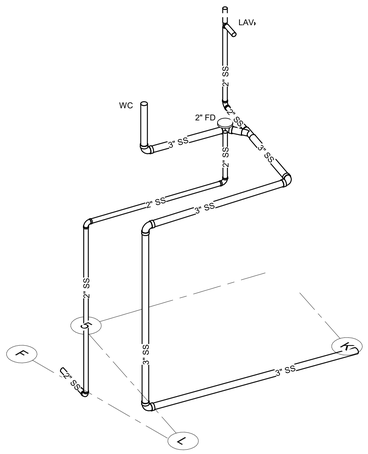
PLUMBING RISERS

M4.0

6/22/2023 11:22:33 AM



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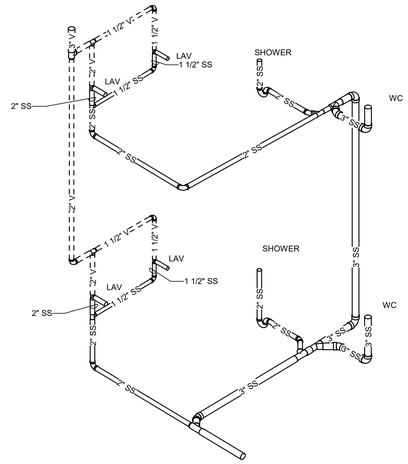

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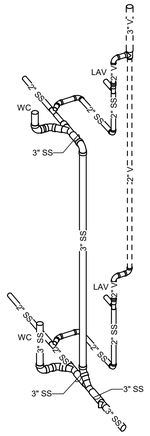

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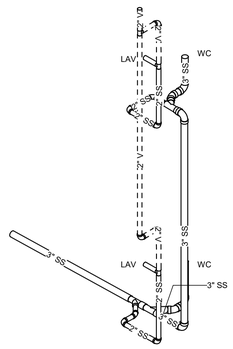
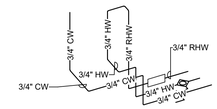


8 W-14



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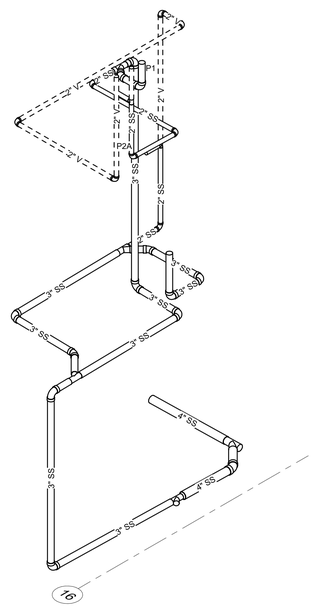

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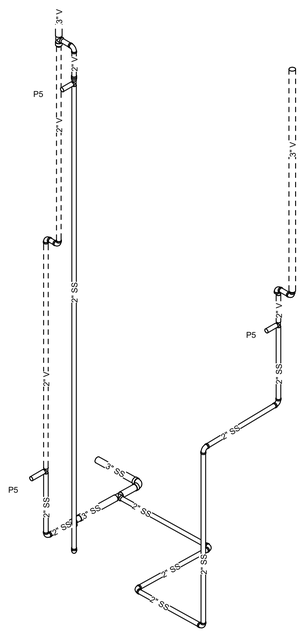

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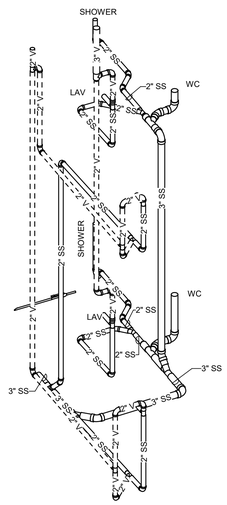

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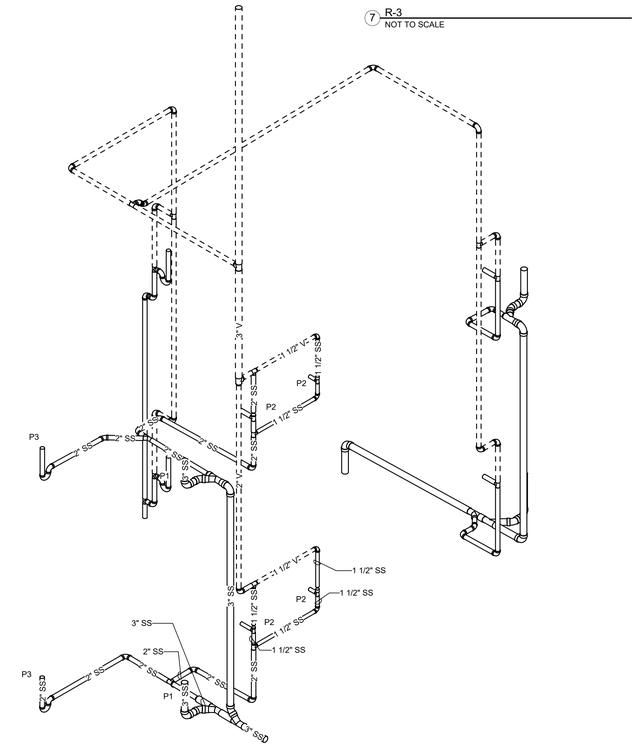

9 W-13

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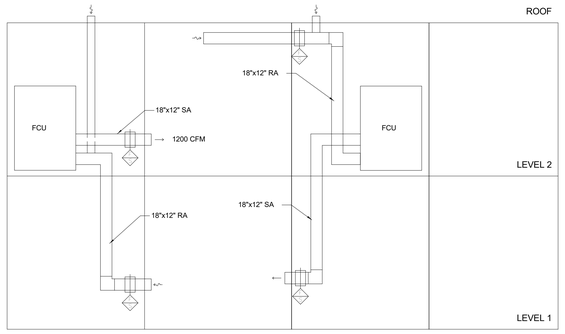
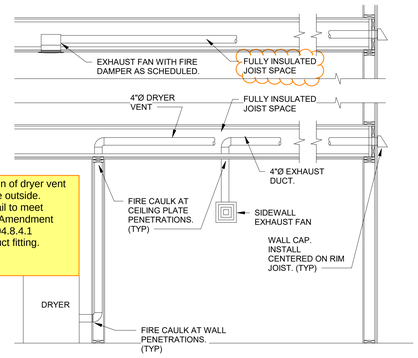
PLUMBING RISERS

M4.1

6/22/2023 11:22:37 AM



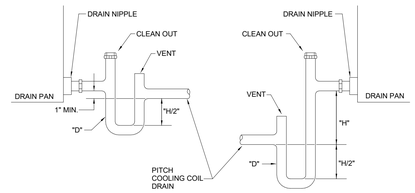
1 CORRIDOR VENTILATION RISER
NOT TO SCALE



Provide longest run of dryer vent to discharge to the outside. Provide dryer detail to meet 504.10 WA State Amendment including Table 504.8.4.1 reduction using duct fitting.

Page M5.0

2 DRYER AND BATHROOM EXHAUST DETAIL
NOT TO SCALE

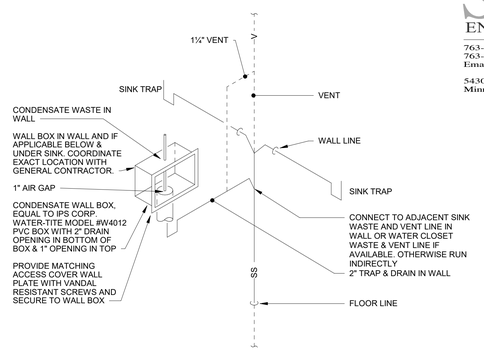


BLOW-THRU AIR HANDLER

DRAW-THRU AIR HANDLER

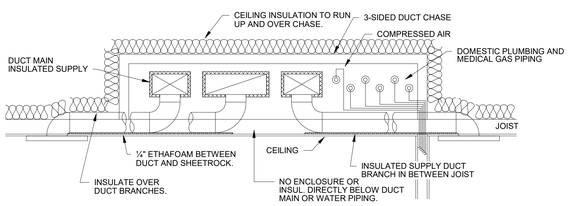
UNIT TOTAL PRESSURE (in W.G.)	H	H/2	D∅
2	3"	1½"	8"
3	4"	2"	9"
4	5"	2½"	1¼"
6	7"	3½"	1⅝"

11 AHU DRAIN TRAP DETAIL
NOT TO SCALE

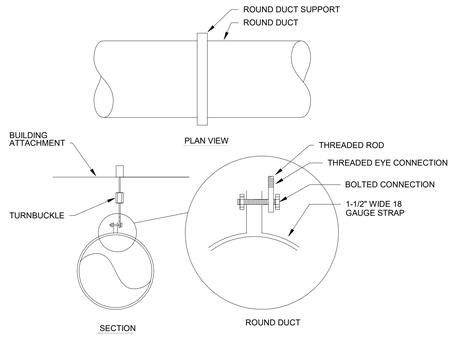


4 CONDENSATE WALL BOX
NOT TO SCALE

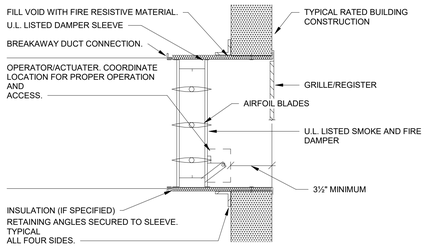
SPECIAL INSPECTION ARE REQURIED PER CHAPTER 13 OF 2018 UPC FOR MEDICAL GAS INSTALLATION. (Sec 1304) SEE CERTIFICATION TESTS REQUIRED PER SECTION 1319.0. SUBMIT REPORTS TO CITY OF PUYALLUP.



5 ATTIC SPACE DUCT ENCLOSURE DETAIL
NOT TO SCALE

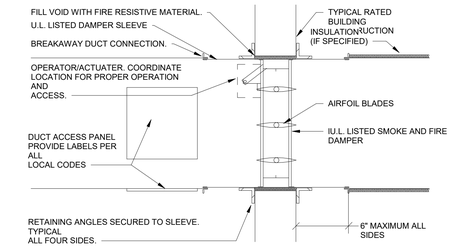


6 ROUND DUCT SUPPORT DETAIL
NOT TO SCALE



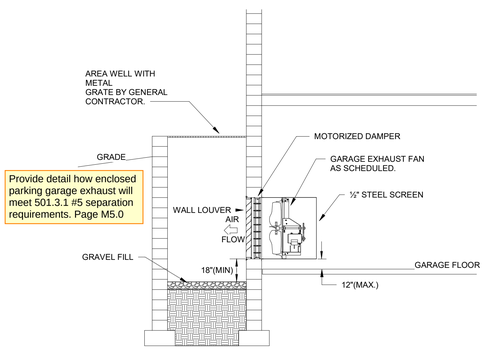
GENERAL NOTES:
1. THIS DETAIL IS PROVIDED FOR REFERENCE ONLY TO INDICATE MINIMUM REQUIREMENTS.
2. DAMPER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS AND LOCAL FIRE AUTHORITY.
3. VERTICAL DUCT WITH HORIZONTAL DAMPER IF ALLOWED BY AUTHORITIES HAVING JURISDICTION IS SIMILAR.

7 GRILLE SMOKE/FIRE DAMPER DETAIL
NOT TO SCALE



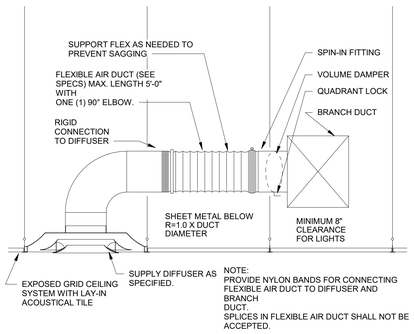
GENERAL NOTES:
1. THIS DETAIL IS PROVIDED FOR REFERENCE ONLY TO INDICATE MINIMUM REQUIREMENTS.
2. DAMPER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS AND LOCAL FIRE AUTHORITY.
3. VERTICAL DUCT WITH HORIZONTAL DAMPER IF ALLOWED BY AUTHORITIES HAVING JURISDICTION IS SIMILAR.

8 INLINE SMOKE/FIRE DAMPER DETAIL
NOT TO SCALE



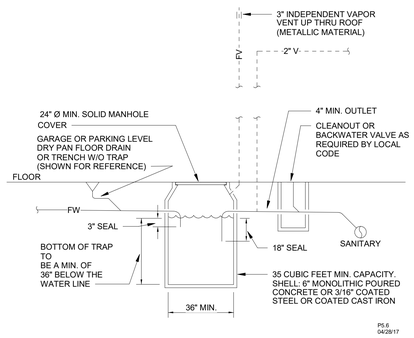
Provide detail how enclosed parking garage exhaust will meet 501.3.1 #5 separation requirements. Page M5.0

9 GARAGE EXHAUST FAN DETAIL
NOT TO SCALE



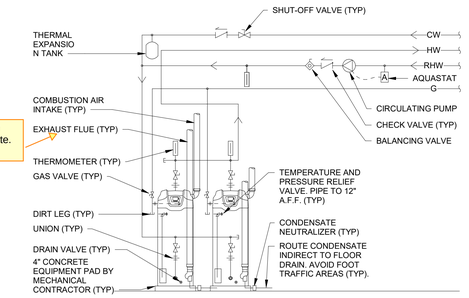
NOTE:
PROVIDE NYLON BANDS FOR CONNECTING FLEXIBLE AIR DUCT TO DIFFUSER AND BRANCH DUCT.
SPLICES IN FLEXIBLE AIR DUCT SHALL NOT BE ACCEPTED.

10 LAY-IN DIFFUSER DETAIL
NOT TO SCALE



3 FLAMMABLE WASTE TRAP DETAIL
NOT TO SCALE

Provide where water heaters vent terminate. Page M5.0



NOTES
A. ALL MANIFOLDING MUST BE EQUAL LENGTH AND HEATERS BE IDENTICAL
B. PROVIDE 8 FEET OF GAS PIPING BETWEEN PRESSURE REGULATOR VALVE AND GAS BURNER VALVE
C. PROVIDE EACH INDIVIDUAL HEATER WITH A CORRECTLY SIZED PRESSURE REGULATOR TO MATCH THE GAS BURNER SIZE. REGULATOR MUST BE RATED/CERTIFIED TO SUPPLY (AT MINIMUM) MAXIMUM BTUH/HR INPUT OF HEATER WHEN PIPED AS AN INDIVIDUAL APPLIANCE.
D. PROVIDE DEDICATED ELECTRICAL CIRCUIT TO EACH INDIVIDUAL WATER HEATER. SEE ELECTRICAL SPECIFICATIONS.
E. PROVIDE CONDENSATE NEUTRALIZATION KIT. SEE SPECIFICATION SECTION 22 30 00.

(2) CONDENSING DOMESTIC HOT WATER HEATERS DETAIL
NOT TO SCALE

Provide calculations to meet Section 401.2.1 for R occupancies and 404 for enclosed garages with WAC 51-52-001 and the 2018 IMC.
Page M5.0

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MARK R. BRENGMAN STATE OF WASHINGTON 45586 REGISTERED PROFESSIONAL ENGINEER

Signature

Mark R. Brengman
Typed or Printed Name

Mechanical
Discipline

04/28/23
Date

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

MJW/DCA
DRAWN BY

RDB
CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

MECHANICAL DETAILS

M5.0

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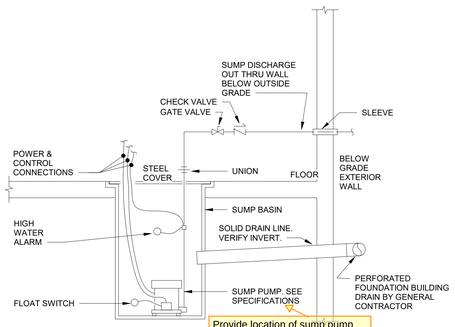
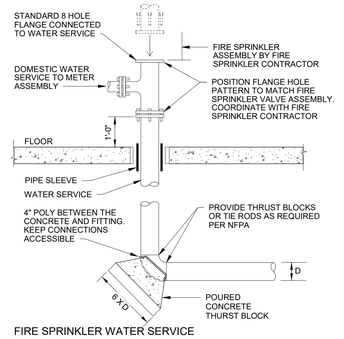
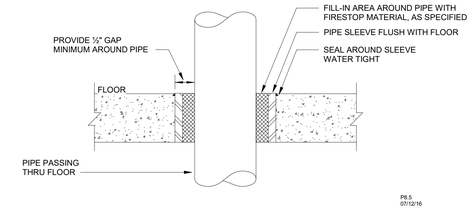


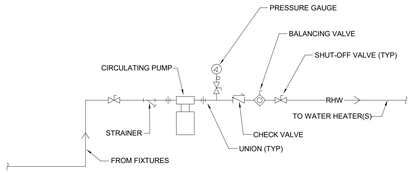
11 DRAINTILE SUMP PUMP TO GRADE DETAIL
NOT TO SCALE



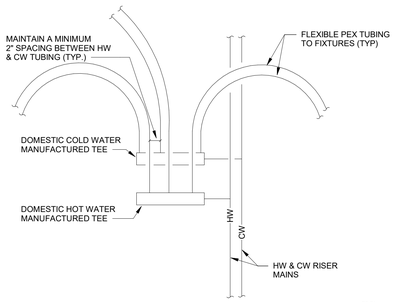
2 FIRE SPRINKLER WATER SERVICE DETAIL
NOT TO SCALE



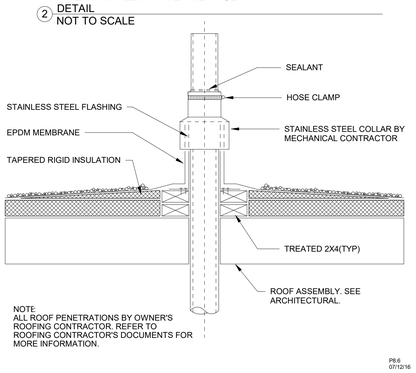
3 THRU FLOOR PIPE SLEEVE DETAIL
NOT TO SCALE



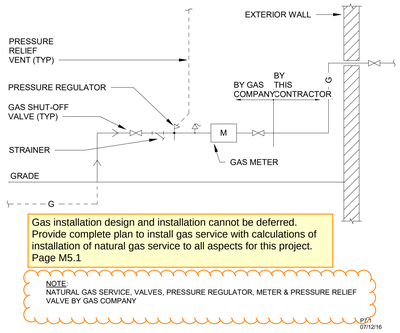
6 DOMESTIC RETURN HOT WATER PUMP DETAIL
NOT TO SCALE



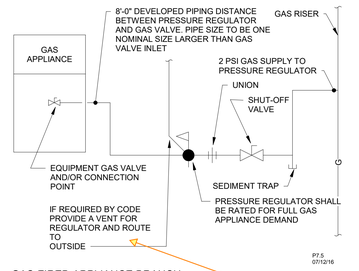
5 DOMESTIC WATER PEX MANIFOLD PIPING DETAIL
NOT TO SCALE



7 VENT THRU ROOF DETAIL
NOT TO SCALE

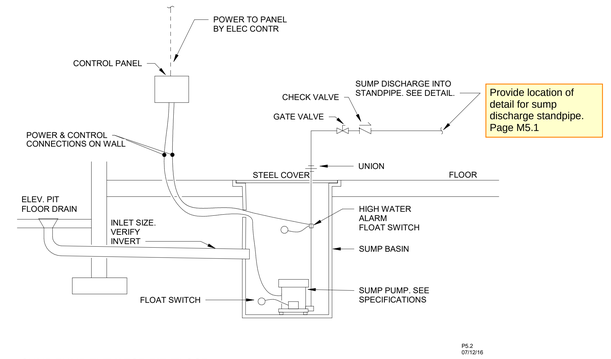


1 GAS SERVICE DIAGRAM
NOT TO SCALE



4 GAS-FIRED APPLIANCE BRANCH ASSEMBLY DETAIL
NOT TO SCALE

Provide vent on detail for regulator and where it will vent to per Section 410.3 of the IFGC or provide manufacturers specification that reference it is not required.
Page M5.1



Provide location of detail for sump discharge standpipe.
Page M5.1

8 SUMP PUMP ELEVATOR PIT (FLOOR DRAIN)
NOT TO SCALE

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MECHANICAL DETAILS

M5.1

6/22/2023 11:22:40 AM

Provide calculations for garage exhaust per Table 403.3.1.1 of the 2018 IBC. Total provided is 16,150 CFM Per table with min 0.75 per square foot does not meet minimum exhaust requirement.
Page ME1.0

EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVES	FAN DATA				VIBR. ISOLATION		MOTOR DATA				PANEL					NOTES	
				CFM	ESP (IN.WC)	FAN RPM	DRIVE TYPE	SPEC	DEFL (IN.)	HP	RPM	V	PH	PANEL	CIRCUIT	CONDUIT	WIRE SIZE	BREAKER	MECH	ELEC
EF-1	GREENHECK SBE-1H48	PARKING	PARKING	15750	0.125	379	-	-		1	-	208 V	3	LP02	17,19,21	1/2"	#12	15/3	1	3
EF-2	GREENHECK CSP-190	PARKING	STORAGE	200	0.1	1400	-	-		FRAC	-	120 V	1	LP01	10	1/2"	#12	20/1	2	2
EF-3	GREENHECK CSP-190	PARKING	PARKING	200	0.1	1400	-	-		FRAC	-	120 V	1	LP01	10	1/2"	#12	20/1	-	4
EF-4	PANASONIC FV-05-11VKS1	RESTROOM	RESTROOM	75	0.125	878	DIRECT			FRAC		120 V	1			1/2"	#12	20/1	3	1
EF-5	PANASONIC FV-05-11VKS1	RESTROOM	RESTROOM	75	0.125	878	DIRECT			FRAC		120 V	1			1/2"	#12	20/1	3	1
EF-6	PANASONIC FV-05-11VKS1	RESTROOM	RESTROOM	75	0.125	878	DIRECT			FRAC		120 V	1			1/2"	#12	20/1	3	1
EF-A	PANASONIC FV-05-11VKS1	UNIT BATHROOMS	UNIT BATHROOMS	75	0.125	878	DIRECT			FRAC		120 V	1			1/2"	#12	20/1	3,4	5

MECHANICAL NOTES:

1. CONTROLLED BY CO/NO2 DETECTION SYSTEM. REFER TO SPECIFICATIONS.
2. FURNISH LINE VOLTAGE ACTING THERMOSTAT FOR INSTALLATION BY ELECTRICAL.
3. PROVIDE MANUFACTURER'S INTEGRAL CEILING RADIATION DAMPER.
4. COORDINATE FAN LOCATION WITH ARCHITECT.

ELECTRICAL NOTES

1. OBTAIN POWER FROM ROOM SWITCHED LIGHTING CIRCUIT.
2. INSTALL THERMOSTAT FURNISHED BY MECHANICAL. REFER TO MECHANICAL PLANS FOR LOCATION.
3. CONNECT TO VFD MAIN DISCONNECT. CONNECT VFD OUTPUT TO EACH MOTOR. ALL FEEDERS TO/FROM VFD SHALL BE COPPER; ALUMINUM IS NOT APPROVED FOR SUBSTITUTION.
4. RUNS CONTINUOUSLY.
5. PROVIDE 120 VOLT TIME DELAY OFF AND PERIODIC VENTILATION SWITCH SETTABLE FROM 0-60 MINUTES BY ADJUSTMENT SCREWS BEHIND COVERPLATE. CONNECT FIXTURE TO INSTANTANEOUS CONTACTS AND FAN TO TIME DELAY/PERIODIC VENTILATION CONTACTS. SET TIME DELAY TO 20 MINUTES. SEE UNIT PLANS FOR VENTILATION MINUTES/HR TIMER SETTING. AIRCYCLER SMARTEXHAUST #SE1-X OR EQUAL. VERIFY COLOR WITH ARCHITECT PRIOR TO SUBMITTING SHOP DRAWINGS.

MECHANICAL AND ELECTRICAL EQUIPMENT SCHEDULE GENERAL NOTES

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SCHEDULED.

B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING AND MAKE FINAL CONNECTION TO EACH PIECE OF EQUIPMENT SCHEDULED.

C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL STARTERS AND DISCONNECTS.

D. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES AS WELL AS ALL LINE VOLTAGE AND LOW VOLTAGE WIRING NECESSARY TO INSTALL AND MAKE FULLY OPERATIONAL SPECIFIED CONTROL SYSTEMS, UNLESS NOTED OTHERWISE.

E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SINGLE PHASE LINE VOLTAGE CONTROL DEVICES, SUCH AS 120/208/240 VOLT THERMOSTATS, SWITCHES AND TIME CLOCKS DIRECTLY CONTROLLING EXHAUST FANS, UNIT HEATERS, ETC., INCLUDING ALL ELECTRICAL MATERIALS AND FINAL CONNECTIONS.

F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V JUNCTION BOX OR RECEPTACLES ADJACENT TO WATER HEATERS, SUMP PUMPS AND WATER SOFTENERS.

G. MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AFFIXED WITH A VISIBLE NAMEPLATE MARKED WITH THE SHORT CIRCUIT CURRENT RATING (SCCR) TO COMPLY WITH SECTION 440.4(B) OF THE LATEST ADOPTED NEC. MINIMUM EQUIPMENT SCCR SHALL BE 5,000 AIC, UNLESS NOTED OTHERWISE.

ECO FRESH-PAK SCHEDULE

UNIT NO.	MANFACTURER & MODEL NO.	LOCATION	SERVES	FAN DATA			COOLING DATA				HEATING DATA				MOTOR DATA				PANEL					NOTES	
											REV CYCLE		SUPPLEMENTAL												
				CFM	MIN. O.A.	ESP (IN.WC)	TONS	TOTAL MBH	SENS MBH	EER	MBH	COP	MBH	kW	MCA	HP	V	PH	PANEL	CIRCUIT	CONDUIT	WIRE SIZE	BREAKER	MECH	ELEC
VTAC-A	FIRST CO EPE24-8-HP	UNITS	UNITS	800 CFM	50	0.2	2	24.6	18.4	11.5	23.6	3.4		4.5	31	FRAC	208 V	1			3/4" C.	#8	40/2	1	-
VTAC-B	FIRST CO EPE30-8-HP	UNITS	UNITS	1000 CFM	55	0.2	2.5	27	20.2	11.5	25	3.3		6	42	FRAC	208 V	1			3/4" C.	#8	45/2	1	-

MECHANICAL NOTES:

1. PROVIDE APRILAIRE 8400 SERIES THERMOSTAT.

FAN COIL UNIT SCHEDULE (ELEC HEAT/DX COOL)

UNIT NO.	MANUFACTURER & MODEL NO.	SERVES	FAN DATA			COOLING DATA		HEATING DATA		VIBR. ISOLATION		MOTOR DATA					PANEL						NOTES	
			CFM	OA CFM	ESP (IN. WC)	TOTAL (MBH)	SENS (MBH)	KW @208V	MBH	SPEC	DEFL	HP	MCA	RPM	V	PH	PANEL	CIRCUIT	CONDUIT	WIRE SIZE	BREAKER	MECH	ELEC
FC-1	CARRIER FMC4X3600AL	LOBBY	1200	0 CFM	0.2	36	-	7.5	24.7	-	-	1/3	46	-	208 V	1	LP11	32,34	3/4" C.	#8	50/2	-	1
FC-2	CARRIER FMC4X3000AL	LOBBY	1000	0 CFM	0.2	30	-	3.75	12.8	-	-	1/3	24.9	-	208 V	1	LP11	10,12	3/4" C.	#10	30/2	-	1
FC-3	CARRIER FX4DNB037	COMMONS	1200	0 CFM	0.3	36	-	5.6	19.3			-	36.1		208 V	1	LP11	21,23	3/4" C.	#8	40/2	-	1
FC-4	DAIKIN FFQ18Q2VJU	CORRIDOR	375	0 CFM	0.2	18	-			-	-	-	4	-	208 V	1	EOSLP21	10,12	1/2"	#12	15/2	1	1
FC-5	CARRIER FMC4X3600AL	GAME ROOM	1200	0 CFM	0.2	36	-	7.5	24.7	-	-	1/3	46	-	208 V	1	EOSLP21	39,41	3/4" C.	#8	50/2	-	1
FC-6	CARRIER FMC4X3600AL	GAME ROOM	1200	0 CFM	0.2	36	-	7.5	24.7	-	-	1/3	46	-	208 V	1	LP11	39,41	3/4" C.	#8	50/2	-	1
FC-7	CARRIER FX4DNB037	CORRIDOR	1200	0 CFM	0.5	36	-	7.5	24.7			-	46		208 V	1	LP11	36,38	3/4" C.	#8	50/2	-	1
FC-8	DAIKIN FFQ18Q2VJU	CORRIDOR	375	0 CFM	0.2	18	-			-	-	-	4	-	208 V	1	LP11	14,16	1/2"	#12	15/2	1	1
FC-9	CARRIER FX4DNB037	CORRIDOR	1200	0 CFM	0.5	36	-	7.5	24.7			-	46		208 V	1	EOSLP21	36,38	3/4" C.	#8	50/2	-	1
FC-10	CARRIER FMC4X3600AL	GAME ROOM	1200	0 CFM	0.2	36	-	7.5	24.7	-	-	1/3	46	-	208 V	1	EOSLP21	32,34	3/4" C.	#8	50/2	-	1

MECHANICAL NOTES:

1. PROVIDE INTEGRAL CONDENSATE PUMP.

ELECTRICAL NOTES

1. PROVIDE DEDICATED CIRCUIT.

CONDENSING UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVES	COOLING DATA				VIBR. ISOLATION		MOTOR DATA				PANEL						NOTES	
				TONS	MBH	EER	SEER	SPEC	DEFL. (IN.)	MCA	HP	V	PH	PANEL	CIRCUIT	CONDUIT	WIRE SIZE	BREAKER	MECH	ELEC
CU-1	CARRIER 25HCE437	GRADE	FC-1	3	36		14	-	-	19.5		208 V	1	LP11	25,27	1/2"	#12	20/2	-	-
CU-2	CARRIER 25HCE437	GRADE	FC-2	3	36		14	-	-	19.5		208 V	1	LP11	31,33	1/2"	#12	20/2	-	-
CU-3	CARRIER 25HCE437	GRADE	FC-3	3	36		14	-	-	19.5		208 V	1	LP11	28,30	1/2"	#12	20/2	-	-
CU-4	DAIKIN 4MXS36RMVJUA	GRADE	FC-4&8	3	36	9.2	17.7	-	-	23.9		208 V	1	EOSLP21	16,18	1/2"	#12	25/2	-	-
CU-5	CARRIER 25HCE437	GRADE	FC-5	3	36		14	-	-	19.5		208 V	1	EOSLP21	17,19	1/2"	#12	20/2	-	-
CU-7	CARRIER 25HCE437	GRADE	FC-7	3	36		14	-	-	19.5		208 V	1	LP11	35,37	1/2"	#12	20/2	-	-
CU-9	CARRIER 25HCE437	GRADE	FC-9	3	36		14	-	-	19.5		208 V	1	LP02	20,22	1/2"	#12	20/2	-	-
CU-10	CARRIER 25HCE437	GRADE	FC-10	3	36		14	-	-	19.5		208 V	1	EOSLP21	13,15	1/2"	#12	20/2	-	-

ELECTRIC HEATER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	DESCRIP.	AREA SERVED	HEATING COIL DATA					PANEL						NOTES	
				LENGTH (FT.)	TOTAL WATTS	TOTAL (BTUH)	V	PH	PANEL	CIRCUIT	CONDUIT	WIRE SIZE	BREAKER		MECH	ELEC
BB-A	BERKO CSLAS-4-250	ELECTRIC HEATER		4	1000	3412	208 V	1	<varies>	<varies>	1/2"	#12	20/1		1,2	1,2
EUH-1	BERKO HUHAA-520	ELECTRIC HEATER			3000	17065	208 V	1	LP02	11,13	1/2"	#10	30/2		1,4	1,3
FF-A	BERKO FRC-4024	ELECTRIC HEATER			3000	10239	208 V	1	<varies>	<varies>	1/2"	#10	30/2		1,2,3	1,2

MECHANICAL NOTES

1. EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.
3. PROVIDE TAMPER PROOF FRONT COVER.
4. FURNISH REMOTE THERMOSTAT. BERKO #M602W OR EQUAL.

ELECTRICAL NOTES

1. EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO PLAN FOR CIRCUITING.
3. INSTALL THERMOSTAT FURNISHED BY MECHANICAL. REFER TO MECHANICAL PLANS FOR LOCATION.

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MARK R. BRENGMAN — STATE OF WASHINGTON — 45586 — REGISTERED PROFESSIONAL ENGINEER

Mark R. Brengman
Signature

Mark R. Brengman
Typed or Printed Name

Mechanical — Discipline — 04/28/23 — Date

RICHARD D. BECKER — STATE OF WASHINGTON — 22028334 — REGISTERED PROFESSIONAL ENGINEER

Richard D. Becker
Signature

Richard D. Becker
Typed or Printed Name

ELECTRICAL — Discipline — 04/28/23 — Date

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WESLEY BRADLEY PARK 2
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MECHANICAL EQUIPMENT SCHEDULES

ME1.0

6/22/2023 11:22:43 AM

DOMESTIC CIRCULATION PUMP SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	GPM	HEAD (FT. WC)	MOTOR HP	MOTOR RPM	MOTOR V	MOTOR PH	PANEL	PANEL CIRCUIT	PANEL CONDUIT	PANEL WIRE SIZE	PANEL BREAKER	NOTES MECH	NOTES ELEC
CP-1	ECOCIRC XL 40-275	GARAGE	-	10	31	.5	3535	120 V	1	LP02	7	1/2"	#12	20/1	1	1

MECHANICAL NOTES

1. CONTROLLED BY AQUASTAT.

ELECTRICAL NOTES

1. ECM MOTOR. PROVIDE NEUTRAL CONDUCTOR WITH PHASE CONDUCTORS IF REQUIRED BY MANUFACTURER.

SUMP PUMP SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	GPM	HEAD (FT. WC)	BASIN DIA. (IN)	BASIN DEPTH (IN)	MOTOR DATA MCA	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA V	MOTOR DATA PH	PANEL	PANEL CIRCUIT	PANEL CONDUIT	PANEL WIRE SIZE	PANEL BREAKER	NOTES MECH	NOTES ELEC
SP-1	WEIL 1432	GARAGE	ELEVATOR	50	22	48	132	6.8	.5	3450	120 V	1	EOSLP01	1	1/2"	#12	20/1	-	-
SP-2	WEIL 1603	GARAGE	AREA DRAIN TILE	(2)224	17	36	84	12.1	2	1150	208 V	1	EOSLP01	3,5	1/2"	#12	30/2	1,2	1,2

MECHANICAL NOTES

1. DUPLEX UNIT, DATA LISTED IS PER PUMP.
2. PUMPS MAY OPERATE SIMULTANEOUSLY.

ELECTRICAL NOTES

1. DUPLEX UNIT, MOTOR DATA LISTED IS PER PUMP.
2. PUMPS MAY OPERATE SIMULTANEOUSLY.

GAS-FIRED DOMESTIC WATER HEATER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL	LOCATION	SERVES	MAX TEMP RISE (DEG. F)	STORAGE (GAL)	RECOVERY (GPH)	MBH INPUT	THERMAL EFF (%)	MOTOR DATA KVA	MOTOR DATA V	MOTOR DATA PH	PANEL	PANEL CIRCUIT	PANEL CONDUIT	PANEL WIRE SIZE	PANEL BREAKER	NOTES MECH	NOTES ELEC
WH-1	BTH-400	LOWER LEVEL AREA B	BUILDING	90	167	1022	399	95	1	120 V	1	LP02	6	1/2"	#12	20/1	1	1
WH-2	BTH-400	LOWER LEVEL AREA B	BUILDING	90	167	1022	399	95	1	120 V	1	LP02	8	1/2"	#12	20/1	1	1

MECHANICAL NOTES:

1. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS.

ELECTRICAL NOTES

1. PROVIDE DEDICATED CIRCUIT AND DEDICATED NEUTRAL.

MECHANICAL AND ELECTRICAL EQUIPMENT SCHEDULE GENERAL NOTES

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SCHEDULED.

B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING AND MAKE FINAL CONNECTION TO EACH PIECE OF EQUIPMENT SCHEDULED.

C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL STARTERS AND DISCONNECTS.

D. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES AS WELL AS ALL LINE VOLTAGE AND LOW VOLTAGE WIRING NECESSARY TO INSTALL AND MAKE FULLY OPERATIONAL SPECIFIED CONTROL SYSTEMS, UNLESS NOTED OTHERWISE.

E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SINGLE PHASE LINE VOLTAGE CONTROL DEVICES, SUCH AS 120/208/240 VOLT THERMOSTATS, SWITCHES AND TIME CLOCKS DIRECTLY CONTROLLING EXHAUST FANS, UNIT HEATERS, ETC., INCLUDING ALL ELECTRICAL MATERIALS AND FINAL CONNECTIONS.

F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V JUNCTION BOX OR RECEPTACLES ADJACENT TO WATER HEATERS, SUMP PUMPS AND WATER SOFTENERS.

G. MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AFFIXED WITH A VISIBLE NAMEPLATE MARKED WITH THE SHORT CIRCUIT CURRENT RATING (SCCR) TO COMPLY WITH SECTION 440.4(B) OF THE LATEST ADOPTED NEC. MINIMUM EQUIPMENT SCCR SHALL BE 5,000 AIC, UNLESS NOTED OTHERWISE.

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Mark R. Brengman
Typed or Printed Name

Mechanical — 04/28/23
Discipline — Date

RICHARD D. BECKER STATE OF WASHINGTON 22028534 REGISTERED PROFESSIONAL ENGINEER

Signature

Richard D. Becker
Typed or Printed Name

ELECTRICAL — 04/28/23
Discipline — Date

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612-252-4820

WESLEY BRADLEY PARK 2
EAST BROWNSTONE
707 39TH AVENUE SE
PUYALLUP, WA 98374

PRMU20230881

PERMIT SET
June 2, 2023

REVISIONS

No.	Description	Date

ISA202201
PROJECT NUMBER

MJW/DCA — DRAWN BY
RDB — CHECKED BY

WESLEY BRADLEY PARK 2
EAST BROWNSTONE

MECHANICAL EQUIPMENT SCHEDULES

ME1.1

6/22/2023 11:22:45 AM