ELECTRICAL LEGEND

RACEWAYS, BOXES, AND CONDUCTORS

- CONCEALED RACEWAY AND CONDUCTORS. NUMBER OF SLASHES INDICATES NUMBER OF CONDUCTORS IF MORE THAN TWO. SIZE OTHER THAN 12 AWG AS NOTED. (APPLIES TO ALL WIRING SYMBOLS)
- UNDERGROUND OR UNDERFLOOR RACEWAY
- HOMERUN
- OHD — OVERHEAD POWER LINE
- SPLICE
- GROUND CONNECTION
- CONDUIT UP
- CONDUIT DOWN
- JUNCTION BOX
- JUNCTION BOX FLUSH WITH FLOOR OR AT GRADE
- CONDUIT STUB
- CT — CABLE TRAY

ELECTRICAL EQUIPMENT - PLANS

- T — DISTRIBUTION TRANSFORMER
- ELECTRICAL EQUIPMENT AS NOTED ON DRAWINGS
- SURFACE-MOUNTED PANELBOARD (120/208V)
- SURFACE-MOUNTED PANELBOARD (277/480V)
- RECESSED PANELBOARD (120/208V)
- RECESSED PANELBOARD (277/480V)
- SURFACE-MOUNTED CABINET, TYPE AS NOTED
- PB — PULL BOX, SIZE AS NOTED OR AS REQUIRED
- GROUNDING BUSBAR

ONE-LINE DIAGRAM

- T — SERVICE TRANSFORMER, PAD-MOUNTED
- T — SERVICE TRANSFORMER, WITH VAULT
- T — DISTRIBUTION TRANSFORMER
- ELECTRICAL EQUIPMENT AS NOTED
- LV -1 / 208V / 225A / 3PH 4W — PANELBOARD WITH CHARACTERISTICS AS NOTED. WHERE NO CHARACTERISTICS NOTED, SEE PANEL SCHEDULES.
- PB — PULL BOX, DIMENSIONS AS NOTED OR AS REQUIRED
- G — GENERATOR
- AUTOMATIC TRANSFER SWITCH
- PHOTOVOLTAIC INVERTER
- 200A 3P — CIRCUIT BREAKER WITH CHARACTERISTICS AS NOTED
- G 200A 3P — CIRCUIT BREAKER WITH INTEGRAL GROUND FAULT PROTECTION
- 200A 3P — SWITCH WITH CHARACTERISTICS AS NOTED
- 200AS 200AF 3P — FUSED SWITCH WITH CHARACTERISTICS AS NOTED. AS = SWITCH RATING, AF = FUSE RATING.
- 200A — NON-FUSED DISCONNECT WITH CHARACTERISTICS AS NOTED.
- 200AS 200AF — FUSED DISCONNECT WITH CHARACTERISTICS AS NOTED. AS = SWITCH RATING, AF = FUSE RATING.
- MAGNETIC STARTER
- COMBINATION DISCONNECT AND MAGNETIC STARTER
- SPD — SURGE PROTECTIVE DEVICE
- M — MOTOR CONNECTION
- EQUIPMENT CONNECTION
- M — ELECTRIC METER, TYPE AS NOTED
- CURRENT TRANSFORMER
- 3000B — FEEDER TAG. SEE FEEDER SCHEDULE.
- E / 121 — FEEDER CONTINUATION CALLOUT. SEE CALLOUT ON DRAWING IDENTIFIED WITH THE SAME LETTER TAG.

WIRING DEVICES

- FUTURE EV CHARGING STATION (ROUGH-IN ONLY)
- WALL-MOUNTED EV CHARGING STATION. SINGLE-PORT, DUAL-PORT.
- PEDESTAL-MOUNTED EV CHARGING STATION. SINGLE-PORT, DUAL-PORT.
- NUMERICAL DESIGNATOR INDICATES EV CHARGING STATION TYPE.
  - 2 = FUTURE LEVEL 2 EV CHARGING STATION, LEVEL 2 EV CHARGING STATION
  - 3 = FUTURE LEVEL 3 EV CHARGING STATION, LEVEL 3 EV CHARGING STATION
- PUSH BUTTON STATION
- L6-30R — SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION AS NOTED.
- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- FB / FB1 — FLUSH FLOOR BOX. REFER TO SPECIFICATIONS AND SCHEDULES FOR DEVICE QUANTITIES AND TYPES.
- PT1 — FLUSH POKE-THROUGH FLOOR BOX. REFER TO SPECIFICATIONS AND SCHEDULES FOR DEVICE QUANTITIES AND TYPES.
- SPLIT-WIRED RECEPTACLE WITH HALF SWITCHED CONTROL VIA MANUAL CONTROL, OCCUPANCY SENSING CONTROL, OR TIME BASED CONTROL. REFER TO SPECIFICATIONS AND DRAWINGS.
- RECEPTACLE WITH FULL SWITCHED CONTROL VIA MANUAL CONTROL, OCCUPANCY SENSING CONTROL, OR TIME BASED CONTROL. REFER TO SPECIFICATIONS AND DRAWINGS.
- FB1 — FLUSH FLOOR BOX WITH SWITCHED CONTROL VIA MANUAL CONTROL, OCCUPANCY SENSING CONTROL, OR TIME BASED CONTROL. REFER TO SPECIFICATIONS AND DRAWINGS.
- RTS — FLUSH POKE-THROUGH FLOOR BOX WITH SWITCHED CONTROL VIA MANUAL CONTROL, OCCUPANCY SENSING CONTROL, OR TIME BASED CONTROL. REFER TO SPECIFICATIONS AND DRAWINGS.
- SURFACE MOUNTED RACEWAY WITH DUPLEX RECEPTACLES
- A — LETTER DESIGNATOR(S) INDICATE ADDITIONAL RECEPTACLE CHARACTERISTICS (APPLIES TO ALL RECEPTACLE AND FLOOR BOX TYPES):
  - A = INTEGRAL AFCI
  - B = INTEGRAL WITH USB OUTLET(S)
  - C = SUPPLIED POWER VIA CRITICAL BRANCH (NEC 517)
  - E = SUPPLIED POWER VIA LIFE SAFETY BRANCH (NEC 517)
  - G = INTEGRAL GFCI
  - IG = SUPPLIED POWER VIA AN ISOLATED GRD SYSTEM
  - P = INTEGRAL SURGE PROTECTIVE DEVICE
  - S = SUPPLIED POWER VIA OPTIONAL STANDBY BRANCH (NEC 702)
  - U = SUPPLIED POWER VIA A UPS
  - WP = WEATHERPROOF AND INTEGRAL GFCI
- +48" — INDICATES RECEPTACLE ROUGH-IN HEIGHT FROM AFF TO CL OF RECEPTACLE WHEN NOT AT STANDARD MOUNTING HEIGHT.
- 2P1:12 — INDICATES PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING RECEPTACLE
- 12 — INDICATES BRANCH CIRCUIT NUMBER SERVING RECEPTACLE. REFER TO SHEET NOTES AND REFERENCE NOTES FOR SOURCE.

SECURITY AND ACCESS CONTROL

- CEILING-MOUNTED SECURITY CAMERA
- CEILING-MOUNTED 360° VIEW ANGLE SECURITY CAMERA
- WALL-MOUNTED SECURITY CAMERA
- WALL-MOUNTED 360° VIEW ANGLE SECURITY CAMERA
- MULTI-DIRECTIONAL SECURITY CAMERA
- MAGNETIC DOOR POSITION SENSOR
- WP — SECURITY SYSTEM OUTDOOR SIREN WITH TAMPER WIREGUARD
- SECURITY SYSTEM OUTDOOR SIREN
- CORNER SECURITY SYSTEM MOTION SENSOR
- CEILING MOUNTED SECURITY SYSTEM MOTION
- KP — SECURITY SYSTEM KEYPAD
- REX — REQUEST TO EXIT SENSOR
- GLASS BREAKAGE SENSOR
- CR — CARD READER
- EL — ELECTRIC LOCK

TELECOMMUNICATIONS

- TELECOMMUNICATIONS OUTLET, CONDUIT AND BACKBOX ONLY REFER TO SPECIFICATIONS.
- WAP WAP — WIRELESS ACCESS POINT, CEILING MOUNTED WIRELESS ACCESS POINT
- FB / FB1 — TELECOMMUNICATIONS OUTLET WITHIN COMBINES SERVICE FLUSH FLOOR BOX. REFER TO SPECIFICATIONS AND SCHEDULES FOR DEVICE QUANTITIES AND TYPES.
- D — COAXIAL CABLE OUTLET, COMBINATION COAXIAL AND DATA OUTLET

NURSE CALL

- SINGLE BED STATION
- NURSE ASSIST BUTTON
- NURSE CALL STATION. B = BED COMMUNICATION OUTLET, CB = CODE BLUE, D = DUTY STATION, E = EMERGENCY STATION, NA = NURSE ASSIST ANNUNCIATOR, N = NURSE LOCATOR STATION, M = PATIENT MONITORING OUTLET, S = STAFF STATION, U = UTILITY STATION
- DOME LIGHT (CEILING AND WALL MOUNTED)
- ZONE DOME LIGHT (CEILING AND WALL MOUNTED)
- NCM — NURSE CALL MASTER STATION

FIRE ALARM

- MANUAL PULL STATION
- STROBE
- HORN, SPEAKER
- COMBINATION HORN/STROBE, COMBINATION SPEAKER/STROBE
- SPRINKLER BELL, CHIME
- FLOW SWITCH, TAMPER SWITCH
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT SMOKE DETECTOR
- S — FIRE/SMOKE DAMPER, SMOKE DAMPER
- MH — MAGNETIC DOOR HOLDER AND RELEASING DEVICE
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- NAC — NOTIFICATION APPLIANCE CIRCUIT EXTENDER
- FSCP — FIRE SUPPRESSION CONTROL PANEL

LIGHTING

- a / 3 — WALL SWITCH WITH CHARACTERISTICS AS NOTED. a = ZONE CONTROLLED, K = KEYED SWITCH, P = WITH INTEGRAL PILOT LIGHT, 3 = THREE-WAY, 4 = FOUR-WAY, OS = COMBINATION OCCUPANCY SENSOR AND WALL SWITCH, D = MANUAL DIMMER, T = DIGITAL TIMER SWITCH.
- DSTAT a — DIGITAL WALL SWITCH STATION. SEE WALL SWITCH SCHEDULE. a = ZONE(S) CONTROLLED.
- D,a — DIGITAL WALL SWITCH WITH CHARACTERISTICS AS NOTED. a = ZONE(S) CONTROLLED, OS = COMBINATION OCCUPANCY SENSOR AND WALL SWITCH, S = SCENE SELECTION, D = LOW VOLTAGE DIMMER (0-10V)
- PP E,a — DIGITAL POWER PACK CONCEALED IN CEILING WITH CHARACTERISTICS AS NOTED. E = EMERGENCY, D = DIMMING (0-10VDC), a = ZONE CONTROLLED.
- OS A — CEILING-MOUNTED OCCUPANCY SENSOR. A = SPECIAL TYPE (SEE OCCUPANCY SENSOR SCHEDULE).
- WS A — WALL-MOUNTED OCCUPANCY SENSOR. A = SPECIAL TYPE (SEE OCCUPANCY SENSOR SCHEDULE).
- PC A — CEILING-MOUNTED PHOTOELECTRIC CELL LIGHT LEVEL SENSOR. A = SPECIAL TYPE (SEE OCCUPANCY SENSOR SCHEDULE).
- PC A — WALL-MOUNTED PHOTOELECTRIC CELL LIGHT LEVEL SENSOR. A = SPECIAL TYPE (SEE OCCUPANCY SENSOR SCHEDULE).
- R — RELAY
- CEILING SURFACE-MOUNTED LUMINAIRE
- RECESSED LUMINAIRE
- LINEAR CEILING SURFACE-MOUNTED LUMINAIRE
- LINEAR SUSPENDED LUMINAIRE
- LINEAR WALL-MOUNTED LUMINAIRE
- LINEAR UNDER CABINET-MOUNTED LUMINAIRE
- SURFACE WALL-MOUNTED LUMINAIRE
- RECESSED WALL-MOUNTED LUMINAIRE
- ROUND SUSPENDED LUMINAIRE
- CEILING SURFACE-MOUNTED LUMINAIRE
- CEILING SURFACE-MOUNTED ASYMMETRIC LUMINAIRE
- CEILING RECESSED LUMINAIRE
- RECESSED ASYMMETRIC DOWNLIGHT
- POLE-MOUNTED LUMINAIRE
- POST TOP LUMINAIRE
- ILLUMINATED BOLLARD
- TRACK LIGHTING, NUMBER AND TYPE OF HEADS AS SHOWN
- WALL MOUNTED EXIT SIGN, SHADING INDICATES FACES
- CEILING MOUNTED EXIT SIGN, SHADING INDICATES FACES
- CEILING MOUNTED EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTS AND BATTERY PACK
- SURFACE-MOUNTED EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK
- SHADING INDICATES LUMINAIRE PROVIDES ILLUMINATION FOR EMERGENCY EGRESS. SHADING VARIES WITH EACH LUMINAIRE TYPE.
- A1 / A / 4N-CW1A / 7 / 1 — LUMINAIRE TYPE IDENTIFIER. SEE LUMINAIRE SCHEDULE.
  - CONTROL ZONE IDENTIFIER
  - INDICATES PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING LUMINAIRE.
  - INDICATES BRANCH CIRCUIT NUMBER SERVING LUMINAIRE. REFER TO SHEET NOTES OR REFERENCE NOTES FOR SOURCE PANELBOARD.

ELECTRICAL EQUIPMENT DESIGNATIONS

4 E - SWB - D1 A

VOLTAGE
- 2 - 208Y/120V (3-PHASE)
- 4 - 480Y/277V (3-PHASE)

POWER SOURCE
- N - NORMAL POWER (ELECTRIC UTILITY)
- E - EMERGENCY POWER (GENERATOR, NEC 700)
- R - REQUIRED STANDBY POWER (GENERATOR, NEC 701)
- S - OPTIONAL STANDBY POWER (GENERATOR, NEC 702)

EQUIPMENT TYPE
- BLANK - PANELBOARD
- SWB - SWITCHBOARD
- T - TRANSFORMER
- ATS - AUTOMATIC TRANSFER SWITCH
- MTS - MANUAL TRANSFER SWITCH
- GEN - GENERATOR
- DS - DISCONNECT SWITCH

LOCATION BY BUILDING AND LEVEL
- D1 - DISTRICT UTILITY PLAN, LEVEL 1
- CW1 - CORDLEY HALL WEST, LEVEL 1
- CW2 - CORDLEY HALL WEST, LEVEL 2
- CW3 - CORDLEY HALL WEST, LEVEL 3
- CW4 - CORDLEY HALL WEST, LEVEL 4
- CW5 - CORDLEY HALL WEST, LEVEL 5

SERIES INDICATOR
- A - FIRST IN A SERIES OF EQUIPMENT
- B - SECOND IN A SERIES OF EQUIPMENT
- ETC.

GENERAL

- AHU-12 — MECHANICAL EQUIPMENT DESIGNATOR, SEE SCHEDULES.
- E1A-1 — LAB EQUIPMENT DESIGNATOR, SEE SCHEDULES.
- 1 — REFERENCE NOTE MARKER
- 2 / E-121 (2 / E-501) — PLAN OR DETAIL NUMBER / SHEET NUMBER
- EXISTING WORK SHOWN LIGHT
- NEW WORK SHOWN BOLD
- EXISTING TO BE REMOVED (APPLIES TO DEMOLITION PLANS ONLY)

ABBREVIATIONS

(#)	DESIGNATES QUANTITY	LV	LOW VOLTAGE
A	AMPERE (AMP)	LSI	LSI ELECTRONIC TRIP UNIT
AC	ALTERNATING CURRENT	LSIG	LSIG ELECTRONIC TRIP UNIT
AFC	AVAILABLE FAULT CURRENT	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPACITY
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER
ARCH	ARCHITECT/ARCHITECTURAL	MDF	MAIN DISTRIBUTION FRAME
ATS	AUTOMATIC TRANSFER SWITCH	MDS	MAIN DISTRIBUTION SWITCHBOARD
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANELBOARD
BLDG	BUILDING	MECH	MECHANICAL
BOCT	BOTTOM OF CABLE TRAY	MLO	MAIN LUG ONLY
BSC	BIOLOGICAL SAFETY CABINET	MTS	MAIN TRANSFER SWITCH
C	CONDUIT	MVA	MEGAVOLT-AMPERE
CENT	CENTRIFUGE	MW	MEGAWATT
CKT	CIRCUIT	(N)	NEW
CL	CENTERLINE	(NL)	NEW LOCATION
CLG	CEILING	NA	NOT APPLICABLE
CRI	COLOR RENDERING INDEX	NIC	NOT IN CONTRACT
CU	COPPER	PA	PUBLIC ADDRESS
DC	DIRECT CURRENT	PE	PHOTOELECTRIC CELL
DF	DRINKING FOUNTAIN	PF	POWER FACTOR
DW	DISHWASHER	PNL	PANELBOARD
(E)	EXISTING	PV	PHOTOVOLTAIC
ECR	ENVIRONMENTAL CONTROL ROOM	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRICAL	PWR	POWER
EMERG	EMERGENCY	(R)	REMOVE
EMT	ELECTRICAL METALLIC TUBING	(RL)	RELOCATE
EV	ELECTRIC VEHICLE	REFL	REFLECTOR
FA	FIRE ALARM	SCCR	SHORT CIRCUIT CURRENT RATING
FH	FUME HOOD	SDP	SUB-DISTRIBUTION PANELBOARD
FLA	FULL LOAD AMPS	SWBD	SWITCHBOARD
FTL	FEED-THROUGH LUGS	TR	TAMPER RESISTANT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GFP	GROUND FAULT PROTECTION	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
HP	HORSEPOWER	UC	UNDER CABINET
IDF	INTERMEDIATE DISTRIBUTION FRAME	UG	UNDERGROUND
INC	INCUBATOR	UON	UNLESS OTHERWISE NOTED
K	KELVIN	UPS	UNINTERRUPTIBLE POWER SUPPLY
KW	KILOWATT	V	VOLTAGE
KWH	KILOWATT-HOUR	VA	VOLT-AMPERE
KV	KILOVOLT	VP	VAPOR PROOF
KVA	KILOVOLT-AMPERE	W	WATT
KVAR	KILOVOLT-AMPERE REACTIVE	WP	WEATHERPROOF
LED	LIGHT EMITTING DIODE	XFMR	TRANSFORMER
LM	LUMENS		

SHEET LIST - ELECTRICAL

SYSTEMS WEST ENGINEERS
725 A Street
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541.342.7210
systemswestengineers.com

HOMES FOR GOOD HOUSING AGENCY

REGISTERED PROFESSIONAL ENGINEER # 80,021 — DIGITALLY SIGNED OREGON — NOV 21, 2008 — MATTHEW B. REITCH — EXPIRES: 12-31-26

HEERAN CENTER HVAC SYSTEM UPGRADE

100% CONSTRUCTION DOCUMENTS

2222 Coburg Rd
Eugene, OR 97401

OWNER:
Homes for Good

LEGEND, GENERAL NOTES, & SHEET LIST

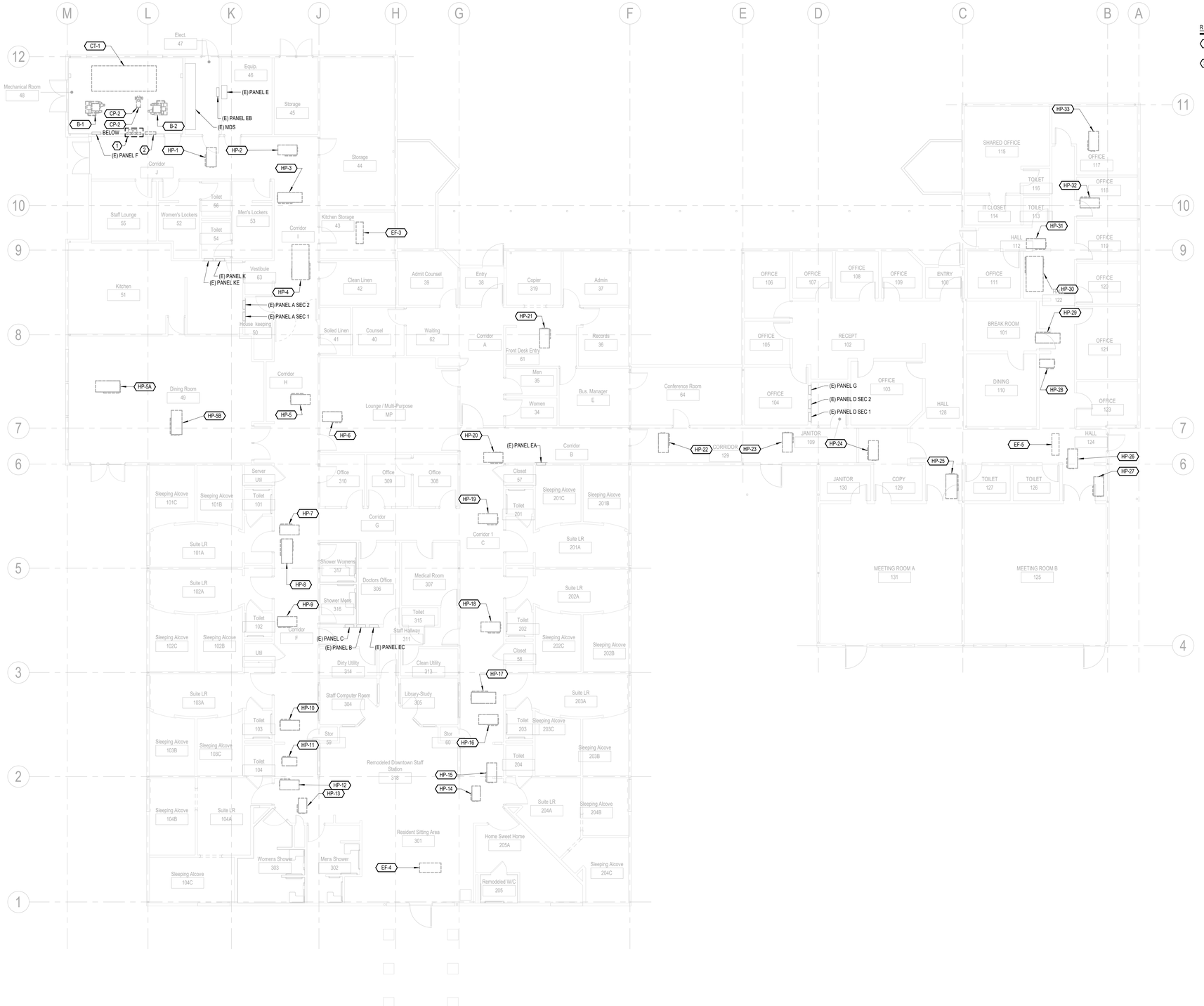
MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: PZL
CHECKED: MBR

DATE: 03.13.2025
PROJECT: 250002.01

E001

PLOTTED BY: PZL ON: 3/13/2025 4:40:01 PM



SHEET NOTES:

1. FOR EQUIPMENT NOTED AS DEMO ON THIS SHEET: DISCONNECT EQUIPMENT; RETAIN EXISTING PATHWAY AND CONDUCTORS FOR USE IN NEW WORK U.O.N.

REFERENCE NOTES:

1. DISCONNECT MOTOR CONTROLLERS AND VFDS FOR MECHANICAL EQUIPMENT BEING REMOVED. COORDINATE WITH MECHANICAL PRIOR TO COMMENCING WORK.
2. DISCONNECT AND RETAIN EXISTING CIRCUIT SERVING CONTROL PANELS FOR MECHANICAL EQUIPMENT BEING REMOVED. COORDINATE WITH MECHANICAL PRIOR TO COMMENCING WORK.

1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

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HEERAN CENTER HVAC SYSTEM UPGRADE

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OWNER:
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DEMOLITION PLAN

MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: PZL
CHECKED: MBR

DATE: 03.13.2025
PROJECT: 250002.01

E101

PLOTTED BY: PZL ON: 3/13/2025 4:40:04 PM

REFERENCE NOTES:

1 DISCONNECT EQUIPMENT AND RETAIN EXISTING CIRCUIT SERVING EXHAUST FAN FOR USE IN NEW WORK.

1 **DEMOLITION ROOF PLAN**
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
80,021
DIGITALLY SIGNED
OREGON
MAY 21, 2026
MATTHEW B. REICH
EXPIRES: 12-31-26

HEERAN CENTER HVAC SYSTEM UPGRADE

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OWNER:
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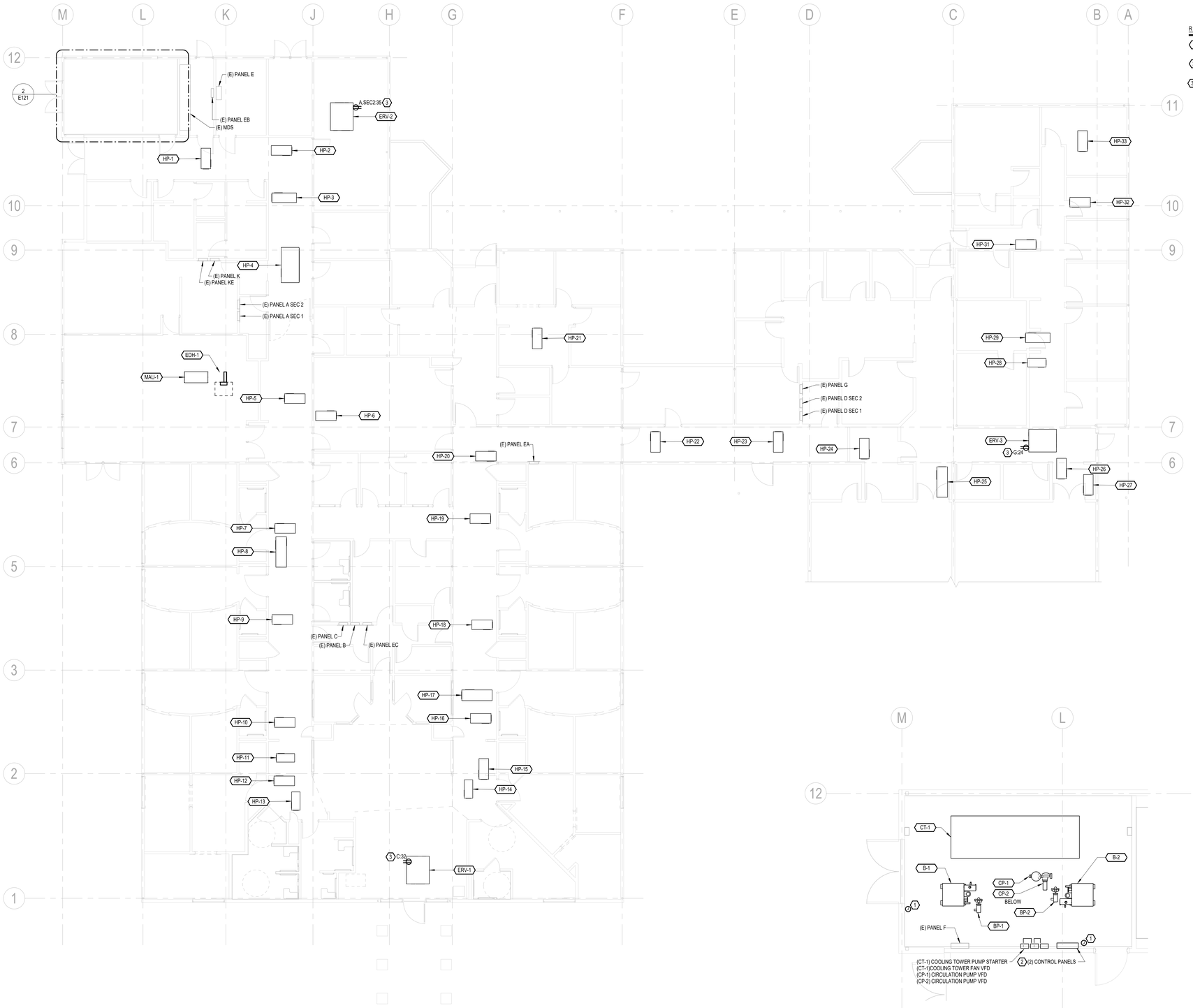
DEMOLITION ROOF PLAN

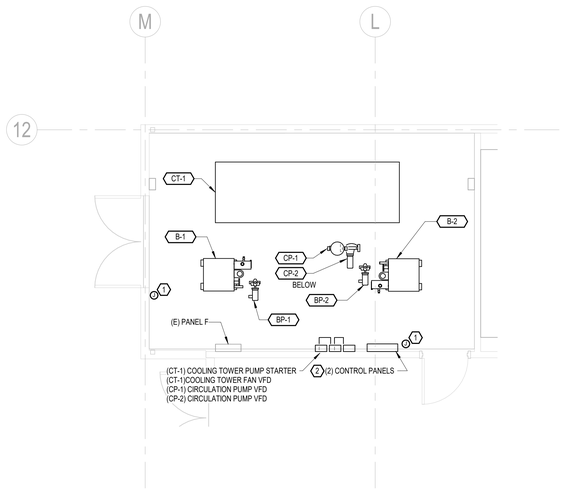
MARK	DATE	DESCRIPTION

DESIGNED:	AJV
DRAWN:	PZL
CHECKED:	MBR
DATE:	03.13.2025
PROJECT:	250002.01

E102

PLOTTED BY PZL ON: 3/13/2025 4:40:04 PM





1 POWER DISTRIBUTION FIRST FLOOR PLAN

1/8" = 1'-0"

2 POWER DISTRIBUTION MECHANICAL ROOM ENLARGED PLAN

1/4" = 1'-0"

SHEET NOTES:

1. FOR NEW MECHANICAL EQUIPMENT U.O.N:
   UTILIZE EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION TO SERVE EQUIPMENT OF THE SAME NAME. REFERENCE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON E601 FOR ADDITIONAL CONNECTION INFORMATION.

REFERENCE NOTES:

1. PROVIDE MUSHROOM STYLE PUSHBUTTON AND CONDUIT TO BOILER CONTROL PANEL FOR EMERGENCY BOILER SHUTOFF.
2. UTILIZE EXISTING 120V CIRCUIT RETAINED THROUGH DEMOLITION TO SERVE NEW BAS PANELS.
3. MOUNT RECEPTACLE IN ABOVE CEILING SPACE CLOSE TO ERV UNIT IN ACCESSIBLE LOCATION.

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FLOOR PLANS

MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: PZL
CHECKED: MBR

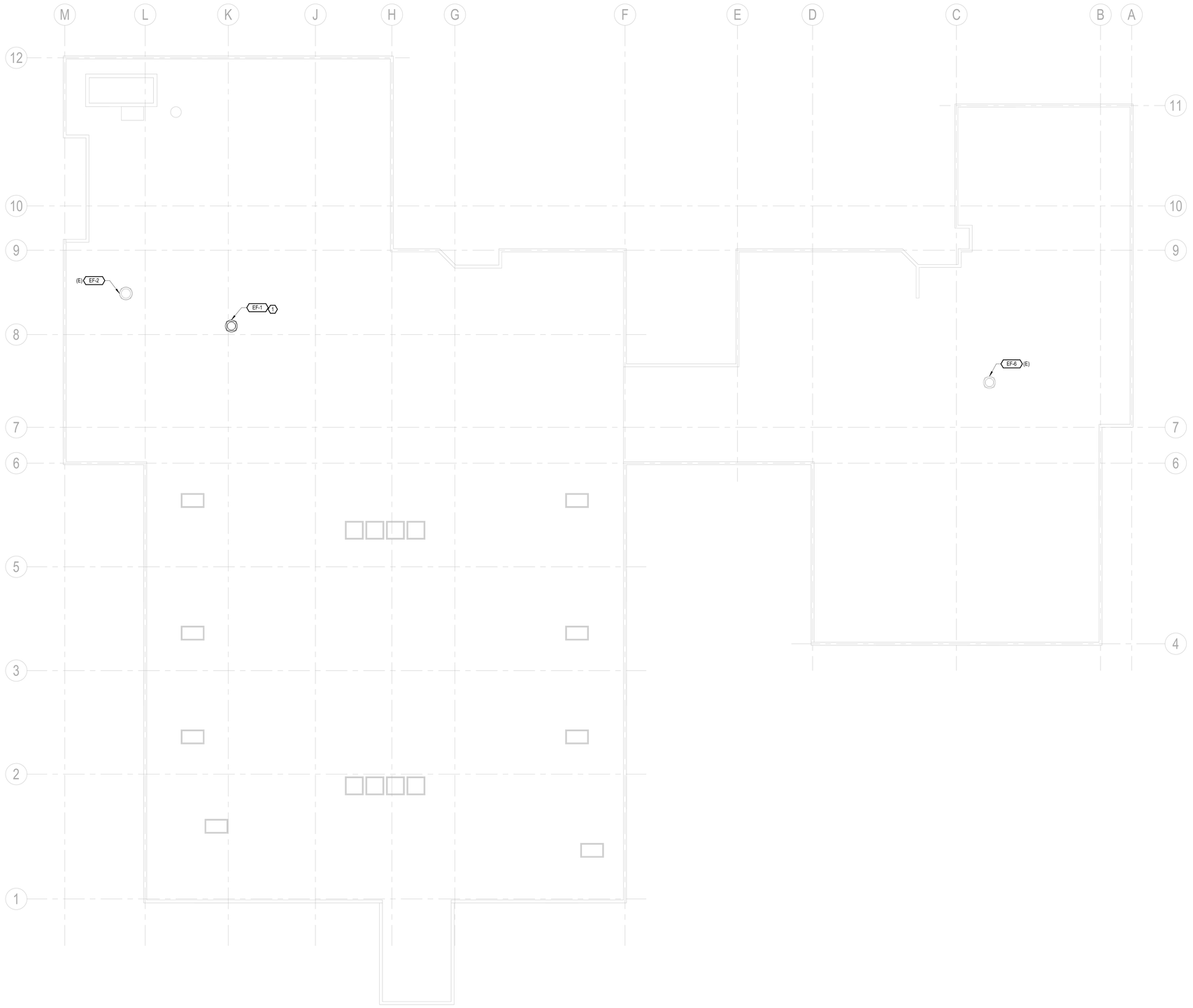
DATE: 03.13.2025
PROJECT: 250002.01

E121

PLOTTED BY PZL ON: 3/13/2025 4:40:06 PM

REFERENCE NOTES:

1. CONNECT NEW UNIT AND UTILIZE EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION TO SERVE EF-1.



1 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

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MAY 21, 2025
MATTHEW B. REICH
RENEWS: 12-31-26

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ELECTRICAL ROOF PLAN

MARK	DATE	DESCRIPTION

DESIGNED:	AJV
DRAWN:	PZL
CHECKED:	MBR
DATE:	03.13.2025
PROJECT:	250002.01

E122

PLOTTED BY PZL ON: 3/13/2025 4:40:06 PM

PANEL SCHEDULE

PANEL: A SECTION 1
VOLTS: 120/208
LOCATION: KITCHEN STORAGE 267
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 400
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
LOADS SHOWN HERE ARE EXISTING UNLESS OTHERWISE NOTED
LOADS SHOWN IN BOLD ARE NEW LOADS, REPLACE BREAKER WITH SIZE SHOWN
LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN
*HEAT PUMP 4 IS A NEW LOAD THAT UTILIZES THE EXISTING OCP

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	0	*	0
MOTOR LOADS	34157	**	36982
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	0	100%	0
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		34,157	36,982
MAXIMUM PHASE AMPS		111.1	118.9

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	1	UNKNOWN		1	A	2		RECEPTACLES	1	20
20	**2**	**HEAT PUMP 2**	1475	3	B	4	1475	**HEAT PUMP 1**	**2**	**20**
			1475	5	C	6	1475			
20	2	EXHAUST FAN		7	A	8	1983	**HEAT PUMP 3**	**3**	**25**
				9	B	10	1983			
		SPACE		11	C	12	1983			
25	**2**	**HEAT PUMP 20**	1840	13	A	14	1040	**HEAT PUMP 21**	**2**	**15**
			1840	15	B	16	1040			
40	**3**	**HEAT PUMP 4***	3766	17	C	18	1750	**HEAT PUMP 5**	**3**	**20**
			3766	19	A	20	1750			
			3766	21	B	22	1750			
20	1	UNKNOWN		23	C	24		ELECTRIC RANGE	2	40
		SPACE		25	A	26				

PHASE TOTALS	A	B	C
CONNECTED VA	10379	13329	10449
DEMAND VA	11321	14271	11391
CONNECTED AMPS	86.5	111.1	87.1
DEMAND AMPS	94.3	118.9	94.9

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

PANEL SCHEDULE

PANEL: A SECTION 2
VOLTS: 120/208
LOCATION: KITCHEN STORAGE 267
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 400
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
LOADS SHOWN HERE ARE EXISTING UNLESS OTHERWISE NOTED
LOADS SHOWN IN BOLD ARE NEW LOADS, REPLACE BREAKER WITH SIZE SHOWN
LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	180	*	180
MOTOR LOADS	0	**	0
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	5160	100%	5160
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		5,340	5,340
MAXIMUM PHASE AMPS		21.5	21.5

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	1	CORR 265, 275, 281		1	A	2		LIGHTING RM 279, 283, 202	1	20
20	1	LIGHTING RM 289, 284		3	B	4		LIGHTING RM 279, 282, 283, 202	1	20
20	1	KITCHEN STOREROOM		5	C	6		LIGHTING RM 203, 201, 204	1	20
20	1	EXHAUST FAN		7	A	8		LIGHTING RM 266	1	20
20	1	UNKNOWN		9	B	10		LIGHTING RM 266	1	20
20	1	LOBBY LIGHTS		11	C	12		UNKNOWN	1	20
20	1	PLUG CIRCUITS		13	A	14		PLUG CIRCUITS	1	20
20	1	PLUG CIRCUITS		15	B	16		PLUG CIRCUITS	1	20
20	1	PLUG CIRCUITS (KEY READERS)		17	C	18		PLUG CIRCUITS (COPY ROOM FRONT OFFICE)	1	20
20	1	REFRIGERATOR		19	A	20		PLUG CIRCUITS	1	20
20	1	COFFEE POT & MILK MACHINE RECEPT		21	B	22		PLUG CIRCUITS	1	20
20	1	TOASTER & ICE MACHINE RECEPT		23	C	24		RM 206	1	20
20	1	RM 311 COMPUTER SERVER		25	A	26		WATER COOLER	1	20
20	1	STEAM TABLE		27	B	28		SPACE		
20	1	COPY MACHINE		29	C	30		SPACE		
40	**2**	**ERV-2**	2580	31	A	32		SPACE		
			2580	33	B	34		SPACE		
20	**2**	**ERV-2 MAINT RECEPT**	180	35	C	36		SPACE		

PHASE TOTALS	A	B	C
CONNECTED VA	2580	2580	180
DEMAND VA	2580	2580	180
CONNECTED AMPS	21.5	21.5	1.5
DEMAND AMPS	21.5	21.5	1.5

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

PANEL SCHEDULE

PANEL: G
VOLTS: 120/208
LOCATION: JANITOR 109
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 400
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
LOADS SHOWN HERE ARE EXISTING UNLESS OTHERWISE NOTED
LOADS SHOWN IN BOLD ARE NEW LOADS, REPLACE BREAKER WITH SIZE SHOWN
LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	180	*	180
MOTOR LOADS	35932	**	37669
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	0	100%	0
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		36,112	37,849
MAXIMUM PHASE AMPS		103.4	108.2

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
30	**3**	**HEAT PUMP 25**	2316	1	A	2		POWER POLE NORTHWEST	1	20
			2316	3	B	4		POWER POLE RM 600	1	20
			2316	5	C	6		POWER POLE SOUTHWEST	1	20
15	**2**	**HEAT PUMP 26**	825	7	A	8	1040	**HEAT PUMP 27**	**2**	**15**
			825	9	B	10	1040			
20	**2**	**HEAT PUMP 22**	1475	11	C	12	1040	**HEAT PUMP 23**	**2**	**15**
			1475	13	A	14	1040			
25	**2**	**HEAT PUMP 24**	1840	15	B	16	820	**HEAT PUMP 28**	**2**	**15**
			1840	17	C	18	820			
30	**3**	**HEAT PUMP 29**	2126	19	A	20	825	**HEAT PUMP 33**	**2**	**15**
			2126	21	B	22	825			
			2126	23	C	24	180	**ERV-3 MAINT RECEPT**	**1**	**20**
20	2	HEAT PUMP 30		25	A	26	825	**HEAT PUMP 31**	**2**	**15**
				27	B	28	825			
15	**2**	**HEAT PUMP 32**	825	29	C	30		POWER POLE NORTHWEST + FRIDGE	1	20
			825	31	A	32		HEERAN ACCESS CONTROL + AUTODOORS	1	20
30	**2**	**ERV-3**	1788	33	B	34		BREAK ROOM + REFRIGERATOR	1	20
			1788	35	C	36		BACKDOOR, COPY RECEPT, + HALL COUNTER	1	20
20	1	POWER POLE NORTHEAST		37	A	38		POWER POLE RM 601,602, SOUTHWEST WALL	1	20
20	1	POWER POLE ROOM 600		39	B	40		POWER POLE RM 602, SOUTHEAST WALL	1	20
20	1	POWER POLE SOUTH EAST WALL		41	C	42		UNKNOWN	1	20

PHASE TOTALS	A	B	C
CONNECTED VA	11297	12405	12410
DEMAND VA	11876	12984	12989
CONNECTED AMPS	94.1	103.4	103.4
DEMAND AMPS	99.0	108.2	108.2

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

PANEL SCHEDULE

PANEL: C
VOLTS: 120/208
LOCATION: HALL 260
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 225
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
LOADS SHOWN HERE ARE EXISTING UNLESS OTHERWISE NOTED
LOADS SHOWN IN BOLD ARE NEW LOADS, REPLACE BREAKER WITH SIZE SHOWN
LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN
*HEAT PUMP 8 AND CIRCUIT 32 ARE NEW LOADS THAT UTILIZE THE EXISTING OCP

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	180	*	180
MOTOR LOADS	19998	**	22436
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	4346	100%	4346
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		24,524	26,962
MAXIMUM PHASE AMPS		78.2	85.0

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	1	LIGHTING N HALL		1	A	2		LIGHTING	1	20
20	1	LIGHTING		3	B	4		LIGHTING	1	20
20	1	LIGHTING		5	C	6		LIGHTING	1	20
20	1	LIGHTING RM 308		7	A	8			1	20
20	1	RECEPT N CORRIDOR		9	B	10		RECEPT 248, 247	1	20
20	1	RECEPT RM 308		11	C	12		RECEPT 253	1	20
20	1	RECEPT RM 251		13	A	14		DIRTY LAUNDRY	1	20
20	1	RECEPT RM 252, 255		15	B	16			1	20
20	1	UNKNOWN		17	C	18		RECEPT 259, 258	1	20
20	1	WASHER		19	A	20			1	20
40	**3**	**HEAT PUMP 8***	3250	21	B	22	2316	**HEAT PUMP 17**	**3**	**30**
			3250	23	C	24	2316			
			3250	25	A	26	2316			
20	2	EXHAUST FAN		27	B	28	825	**HEAT PUMP 13**	**2**	**15**
				29	C	30	825			
		SPACE		31	A	32	180	**ERV-1 MAINT RECEPT***	**1**	**20**
15	**2**	**HEAT PUMP 6**	825	33	B	34		SPARE	1	20
			825	35	C	36		SPARE	2	50
30	2	UNKNOWN		37	A	38				
				39	B	40	2173	**ERV-1**	**2**	**30**
		SPACE		41	C	42	2173			

PHASE TOTALS	A	B	C
CONNECTED VA	5746	9389	9389
DEMAND VA	6559	10202	10202
CONNECTED AMPS	47.9	78.2	78.2
DEMAND AMPS	54.7	85.0	85.0

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

PANEL SCHEDULE

PANEL: K
VOLTS: 120/208
LOCATION: KITCHEN
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 400
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
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LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	0	*	0
MOTOR LOADS	2700	**	3375
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	0	100%	0
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		2,700	3,375
MAXIMUM PHASE AMPS		7.5	9.4

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	1	STAFF LOUNGE		1	A	2		UNKNOWN	1	20
20	1	RECEPTACLE		3	B	4		STAFF LOUNGE - HALLWAY VENDING	1	20
20	1	VEG SINK		5	C	6		MICROWAVE	1	20
20	1	STEAM TABLE		7	A	8		DISPOSAL	3	20
20	2	DISPOSAL		9	B	10				
				11	C	12				
70	3	DW BOOSTER		13	A	14		DISHWASHER	3	60
				15	B	16				
				17	C	18				
15	**3**	**MAU-1**	900	19	A	20		HEAT PUMP 34	3	40
			900	21	B	22				
			900	23	C	24				
20	3	KF HOOD		25	A	26		DISWASHER EXHAUST FAN	1	20
				27	B	28		TOASTER	2	20
				29	C	30				
20	1			31	A	32		RANGE HOOD CONTROL	1	20
20	1			33	B	34		UNKNOWN	1	20
20	1			35	C	36		UNKNOWN	1	20
		SPACE		37	A	38		SPACE		
		SPACE		39	B	40		SPACE		
		SPACE		41	C	42		SPACE		

PHASE TOTALS	A	B	C
CONNECTED VA	900	900	900
DEMAND VA	1125	1125	1125
CONNECTED AMPS	7.5	7.5	7.5
DEMAND AMPS	9.4	9.4	9.4

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

SCHEDULE LEGEND

A1	C	F
A2		EC
G	K	

PANEL SCHEDULE

PANEL: F
VOLTS: 120/208
LOCATION: Mechanical 276
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 225
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
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LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	0	*	0
MOTOR LOADS	40112	**	44270
RESISTANCE LOADS	5000	100%	5000
SUBFEED	0	100%	0
MISC. LOADS	0	100%	0
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		45,112	49,270
MAXIMUM PHASE AMPS		135.4	146.9

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	2	LIGHTING		1	A	2		LIGHTING	1	20
				3	B	4		LIGHTING	1	20
20	1	LIGHTING		5	C	6		SPARE	1	20
20	1	RECEPTACLE		7	A	8		SPARE	1	20
20	1	WATER HEATER		9	B	10		INJECTOR PUMPS	1	20
60	**3**	**COOLING TOWER FAN**	5544	11	C	12	1272	**COOLING TOWER SPRAY PUMPS**	**3**	**30**
			5544	13	A	14	1272			
			5544	15	B	16	1272			
20	2	GENERATOR CRANKCASE HEATER		17	C	18		WALL HEATER	2	20
				19	A	20				
15	**1**	**B-1**	1000	21	B	22		SPARE	1	20
15	**1**	**B-2**	1000	23	C	24	1500	**COOLING TOWER SUMP HEATER**	**2**	**20**
		SPACE		25	A	26	1500			
15	**2**	**BP-1**	560	27	B	28	560	**BP-2**	**2**	**15**
			560	29	C	30	560			
40	**3**	**CP-1**	2904	31	A	32	2904	**CP-2**	**3**	**40**
			2904	33	B	34	2904			
			2904	35	C	36	2904			

PHASE TOTALS	A	B	C
CONNECTED VA	14124	14744	16244
DEMAND VA	15510	16130	17630
CONNECTED AMPS	117.7	122.9	135.4
DEMAND AMPS	129.3	134.4	146.9

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

PANEL SCHEDULE

PANEL: EC
VOLTS: 120/208
LOCATION: HALL 260
MOUNTING: RECESSED
TYPE: BOLT ON **AMPS:** 225
PHASE: 3 **WIRE:** 4
MAIN: MLO **AFC:**

NOTES: THIS IS AN EXISTING PANEL.
LOADS SHOWN HERE ARE EXISTING UNLESS OTHERWISE NOTED
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LOADS SHOWN WITH SHADING ARE EXISTING TO REMAIN

LOAD CLASS	CONN. VA	DEMAND FACTOR	DEMAND LOAD VA
LIGHTING	0	125%	0
RECEPTACLES	0	*	0
MOTOR LOADS	20400	**	21506
RESISTANCE LOADS	0	100%	0
SUBFEED	0	100%	0
MISC. LOADS	0	100%	0
SUBFEED BREAKER	0		0
		CONNECTED	DEMAND
TOTAL VOLT-AMPS		20,400	21,506
MAXIMUM PHASE AMPS		71.3	74.3

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	**2**	**HEAT PUMP 7**	1475	1	A	2	825	**HEAT PUMP 19**	**2**	**15**
			1475	3	B	4	825			
20	**2**	**HEAT PUMP 9**	1475	5	C	6	1475	**HEAT PUMP 18**	**2**	**20**
			1475	7	A	8	1475			
15	**2**	**HEAT PUMP 10**	825	9	B	10	825	**HEAT PUMP 16**	**2**	**15**
			825	11	C	12	825			
15	**2**	**HEAT PUMP 11**	825	13	A	14	825	**HEAT PUMP 15**	**2**	**15**
			825	15	B	16	825			
15	**2**	**HEAT PUMP 12**	825	17	C	18	825	**HEAT PUMP 14**	**2**	**15**
			825	19	A	20	825			
20	1	LIGHTING IN COMPUTER ROOM		21	B	22		TX FOR FRONT/REAR DOOR	2	20
20	1	LIGHTING IN COMPUTER ROOM		23	C	24				
20	1	WEST SHOWER FANS		25	A	26		LOBBY DUCTLESS	2	20
20	1	EAST SHOWER FANS		27	B	28				
		SPACE		29	C	30		SPACE		
		SPACE		31	A	32		SPACE		
		SPACE		33	B	34		SPACE		
		SPACE		35	C	36		SPACE		

PHASE TOTALS	A	B	C
CONNECTED VA	8550	5600	6250
DEMAND VA	8919	5969	6619
CONNECTED AMPS	71.3	46.7	52.1
DEMAND AMPS	74.3	49.7	55.2

* 10KVA AT 100%, REMAINDER AT 50%
** 100% PLUS 25% OF THE LARGEST MOTOR

SYSTEMS WEST ENGINEERS
725 A Street
Springfield, OR 97477
541.342.7210
systemswestengineers.com

HOMES FOR GOOD HOUSING AGENCY

REGISTERED PROFESSIONAL ENGINEER
80,021
DIGITALLY SIGNED
OREGON
MAY 21, 2025
MATTHEW B. REICH
EXPIRES: 12-31-26

HEERAN CENTER HVAC SYSTEM UPGRADE

100% CONSTRUCTION DOCUMENTS

2222 Coburg Rd
Eugene, OR 97401

OWNER:
Homes for Good

SCHEDULES

MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: PZL
CHECKED: MBR

DATE: 03.13.2025
PROJECT: 250002.01

E601

PLOTTED BY: PZL ON: 3/13/2025 4:40:08 PM

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	VOLTAGE	PHASE	HP	KW	FLA	FEEDER DESCRIPTION	CIRCUIT BREAKER (AMPS/POLES)	PANEL IDENTIFICATION	STARTER DIVISION	DISCONNECT DIVISION	VFD DIVISION	NOTES
MAU-1	MAKEUP AIR UNIT	208	3	2.00		7.5	(3) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/3	K:19,21,23	NA	DIV 23	DIV 23	
HP-1	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	A,SEC1:4,6	NA	DIV 23	NA	B
HP-2	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	A,SEC1:3,5	NA	DIV 23	NA	B
HP-3	WATER SOURCE HEAT PUMP	208	3		5.95	16.5	(3) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	25/3	A,SEC1:8,10,12	NA	DIV 23	NA	B
HP-4	WATER SOURCE HEAT PUMP	208	3		11.3	31.4	(3) 6 AWG CU, (1) 10 AWG GND. IN 1" C.	40/3	A,SEC1:17,19,21	NA	DIV 23	NA	A
HP-5	WATER SOURCE HEAT PUMP	208	3		5.25	14.6	(3) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/3	A,SEC1:18,20,22	NA	DIV 23	NA	B
HP-6	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	C:33,35	NA	DIV 23	NA	B
HP-7	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	EC:1,3	NA	DIV 23	NA	B
HP-8	WATER SOURCE HEAT PUMP	208	3		9.75	27.1	(3) 6 AWG CU, (1) 10 AWG GND. IN 1" C.	40/3	C:21,23,25	NA	DIV 23	NA	A
HP-9	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	EC:5,7	NA	DIV 23	NA	B
HP-10	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:9,11	NA	DIV 23	NA	B
HP-11	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:13,15	NA	DIV 23	NA	B
HP-12	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:17,19	NA	DIV 23	NA	B
HP-13	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	C:28,30	NA	DIV 23	NA	B
HP-14	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:18,20	NA	DIV 23	NA	B
HP-15	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:14,16	NA	DIV 23	NA	B
HP-16	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:10,12	NA	DIV 23	NA	B
HP-17	WATER SOURCE HEAT PUMP	208	3		6.95	19.3	(3) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	30/3	C:22,24,26	NA	DIV 23	NA	B
HP-18	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	EC:6,8	NA	DIV 23	NA	B
HP-19	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	EC:2,4	NA	DIV 23	NA	B
HP-20	WATER SOURCE HEAT PUMP	208	1		3.68	17.7	(2) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	25/2	A,SEC1:13,15	NA	DIV 23	NA	B
HP-21	WATER SOURCE HEAT PUMP	208	1		2.08	10.0	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	A,SEC1:14,16	NA	DIV 23	NA	B
HP-22	WATER SOURCE HEAT PUMP	208	1		2.95	14.2	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	G:11,13	NA	DIV 23	NA	B
HP-23	WATER SOURCE HEAT PUMP	208	1		2.08	10.0	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:12,14	NA	DIV 23	NA	B
HP-24	WATER SOURCE HEAT PUMP	208	1		3.68	17.7	(2) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	25/2	G:15,17	NA	DIV 23	NA	B
HP-25	WATER SOURCE HEAT PUMP	208	3		6.95	19.3	(3) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	30/3	G:1,3,5	NA	DIV 23	NA	B
HP-26	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:7,9	NA	DIV 23	NA	B
HP-27	WATER SOURCE HEAT PUMP	208	1		2.08	10.0	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:8,10	NA	DIV 23	NA	B
HP-28	WATER SOURCE HEAT PUMP	208	1		1.62	7.8	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:16,18	NA	DIV 23	NA	B
HP-29	WATER SOURCE HEAT PUMP	208	3		6.38	17.7	(3) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	30/3	G:19,21,23	NA	DIV 23	NA	B
HP-31	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:26,28	NA	DIV 23	NA	B
HP-32	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:29,31	NA	DIV 23	NA	B
HP-33	WATER SOURCE HEAT PUMP	208	1		1.65	7.9	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	G:20,22	NA	DIV 23	NA	B
ERV-1	EXHAUST RECOVERY VENTILATOR	208	1		4.35	20.9	(2) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	30/2	C:40,42	NA	DIV 23	NA	
ERV-2	EXHAUST RECOVERY VENTILATOR	208	1		5.16	24.8	(2) 8 AWG CU, (1) 10 AWG GND. IN 3/4" C.	40/2	A,SEC2:31,33	NA	DIV 23	NA	
ERV-3	EXHAUST RECOVERY VENTILATOR	208	1		3.6	17.3	(2) 10 AWG CU, (1) 10 AWG GND. IN 3/4" C.	30/2	G:33,35	NA	DIV 23	NA	
EDH-1	ELECTRIC DUCT HEATER	208	3		40	111.0	(3) 1/0 AWG CU, (1) 6 AWG GND. IN 2" C.	150/3	SEE ONE-LINE	NA	DIV 23	NA	
CT-1	COOLING TOWER FAN MOTOR	208	3	15.00		46.2	(3) 6 AWG CU, (1) 10 AWG GND. IN 1" C.	60/3	F:11,13,15	NA	DIV 23	DIV 23	
CT-1	COOLING TOWER SPRAY PUMPS	208	3	3.00		10.6	(3) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	30/3	F:12,14,16	DIV 23	DIV 23	NA	
CT-1	COOLING TOWER SUMP HEATER	208	1		3	14.4	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	20/2	F:24,26	NA	NA	NA	
CP-1	COOLING WATER PUMPS	208	3	7.50		24.2	(3) 6 AWG CU, (1) 10 AWG GND. IN 1" C.	40/3	F:31,33,35	NA	DIV 23	DIV 23	
CP-2	COOLING WATER PUMPS	208	3	7.50		24.2	(3) 6 AWG CU, (1) 10 AWG GND. IN 1" C.	40/3	F:32,34,36	NA	DIV 23	DIV 23	
B-1	CONDENSING BOILER	120	1		1	8.3	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/1	F:21	NA	NA	NA	
B-2	CONDENSING BOILER	120	1		1	8.3	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/1	F:23	NA	NA	NA	
BP-1	BOILER PUMPS	208	1	0.50		5.4	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	F:27,29	DIV 23	DIV 23	NA	
BP-2	BOILER PUMPS	208	1	0.50		5.4	(2) 12 AWG CU, (1) 12 AWG GND. IN 3/4" C.	15/2	F:28,30	DIV 23	DIV 23	NA	

GENERAL NOTES:
1. PROVIDE CONDUCTORS WITH TYPE XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS BETWEEN VFDS AND THEIR ASSOCIATED MOTORS.
2. WHERE INDICATED IN SCHEDULE ABOVE, DISCONNECTS SHALL BE FURNISHED AND INSTALLED BY DIVISION 26. COORDINATE DISCONNECT REQUIREMENTS WITH MECHANICAL.

NOTES:
A. UTILIZE EXISTING CONDUCTORS AND PATHWAY MADE AVAILABLE DURING DEMOLITION TO SERVE LOAD, EXISTING OVERCURRENT PROTECTION TO REMAIN.

B. PROVIDE NEW OVERCURRENT PROTECTION DEVICES SIZED AS SHOWN ON THIS SCHEDULE FOR NEW EQUIPMENT CONNECTION. UTILIZE EXISTING CONDUCTORS AND PATHWAYS TO LOCATION OF PREVIOUS UNIT.EXTEND WIRING AND CONDUIT TO NEW UNIT AS NECESSARY WITH WIRING AND CONDUIT SIZE SHOWN ON SCHEDULE.

PLOTTED BY: JSH ON: 3/13/2025 4:40:09 PM

SYSTEMS WEST
ENGINEERS
725 A Street
Springfield, OR 97477
541.342.7210
systemswestengineers.com

HOMES FOR GOOD HOUSING AGENCY

REGISTERED PROFESSIONAL ENGINEER
80,021
DIGITALLY SIGNED
OREGON
MAY 21, 2025
MATTHEW B. REICH
EXPIRES: 12-31-26

HEERAN CENTER HVAC SYSTEM UPGRADE

100% CONSTRUCTION DOCUMENTS

2222 Coburg Rd
Eugene, OR 97401

OWNER:
Homes for Good

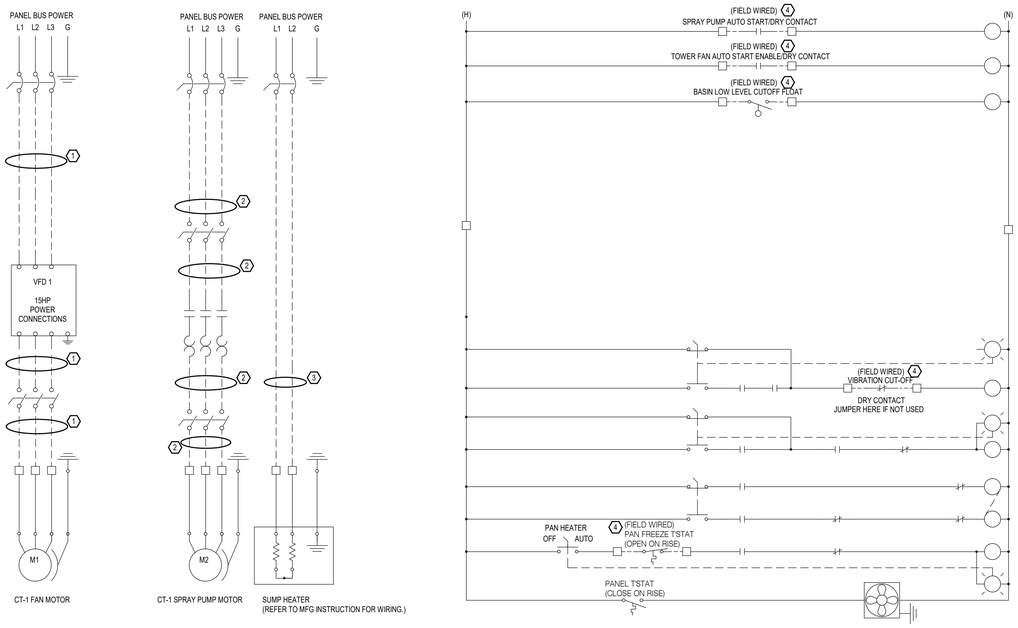
SCHEDULE

MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: JSH
CHECKED: MBR

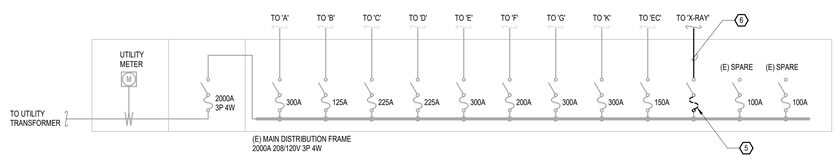
DATE: 03.13.2025
PROJECT: 250002.01

E602



1 CT-1 WIRING DIAGRAM

NOT TO SCALE



2 PARTIAL ONE-LINE

NOT TO SCALE

REFERENCE NOTES:

1. PROVIDE (3) #6 AWG AND (1) #10 AWG GND IN 1" CONDUIT.
2. PROVIDE (3) #12 AWG AND (1) #12 AWG GND IN 3/4" CONDUIT.
3. PROVIDE (2) #12 AWG AND (1) #12 AWG GND IN 3/4" CONDUIT.
4. PROVIDE CONDUIT PATHWAY FOR DRY CONTACTS, WIRING BY DIV 23.
5. REPLACE EXISTING FUSING WITHIN "X-RAY" FUSED SWITCH WITH 150A FUSING.
6. PROVIDE (3) #1/0 AWG AND (1) #6 AWG GROUND IN 2 INCH CONDUIT FROM FUSED SWITCH TO EDH-1.

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HEERAN CENTER HVAC SYSTEM UPGRADE

100% CONSTRUCTION DOCUMENTS

2222 Coburg Rd
Eugene, OR 97401

OWNER:
Homes for Good

DIAGRAMS

MARK	DATE	DESCRIPTION

DESIGNED: AJV
DRAWN: PZL
CHECKED: MBR

DATE: 03.13.2025
PROJECT: 250002.01

E611

PLOTTED BY: PZL ON: 3/13/2025 4:40:09 PM