Electrical Abbreviations

1P	1 Pole (2P, 3P, 4P, ETC.)	MCB	Main Circuit Breaker
A, Amp	Ampere	MCC	Motor Control Center
AC	Above Counter	MDC	Main Distribution Center
ACLG	Above Ceiling	MDP	Main Distribution Panel
ADO	Automatic Door Opener	MFR	Manufacturer
AF	Amp Frame	MFS	Main Fused Disconnect Switch
AFF	Above Finished Floor	MH	Manhole
AFG	Above Finished Grade	MIC	Microphone
AFI	Arc Fault Circuit Interrupter	MIN	Minimum
		MISC	Miscellaneous
AHU	Air Handling Unit	MLO	Main Lugs Only
AL	Aluminum	MMS	Manual Motor Starter
ALT	Alternate	MOA	Multioutlet Assembly
AMP	Ampere	MSP	Motor Starter Panelboard
AMPL	Amplifier	MSBD	Main Switchboard
ANNUN	Annunciator	MSS	Motor Starter Switch
APPROX	Approximately	MT	Mount
AQ-STAT	Aquastat	MT.C	Empty Conduit
ARCH	Architect, Architectural	MTS	Manual Transfer Switch
AS	Amp Switch	MTR	Motor, Motorized
AT	Amp Trip	N.C.	Normally Closed
ATS	Automatic Transfer Switch	NEC	National Electrical Code
AUTO	Automatic	NEMA	National Electrical Manufacturer's Association
AUX	Auxiliary		
AV	Audio Visual	NFDS	Non-Fused Safety Disconnect Switch
AWG	American Wire Gauge		
BATT	Battery	NIC	Not In Contract
BD	Board	NL	Night Light
BLDG	Building	N.O.	Normally Open
BMS	Building Management System	NPF	Normal Power Factor
C	Conduit	NTS	Not To Scale
CAB	Cabinet	OC	On Center
CAT	Catalog	OH	Overhead
CATV	Cable Television	OL	Overloads
CB	Circuit Breaker	PA	Public Address
CCTV	Closed Circuit Television	PB	Pull Box Or Pushbutton
CKT	Circuit	PE	Pneumatic Electric
CLG	Ceiling	PED	Pedestal
COMB	Combination	PF	Power Factor
CMPR	Compressor	PH	Phase
CONN	Connection	PIV	Post Indicating Valve
CONST	Construction	PNL	Panel
CONT	Continuation Or Continuous	PP	Power Pole
CONTR	Contractor	PR	Pair
CONV	Convector	PRI	Primary
CP	Circulating Pump	PROJ	Projection
CRT	Cathode-Ray Tube	PRV	Power Roof Ventilator
CT	Current Transformer	PT	Potential Transformer
CTR	Center	PVC	Polyvinyl Chloride (Conduit)
CU	Copper	PWR	Power
DCP	Domestic Water Circulating Pump	QUAN	Quantity
DEPT	Department	RCPT	Receptacle
DET	Detail	REQD	Required
DIA	Diameter	RM	Room
DISC	Disconnect	RSC	Rigid Steel Conduit
DIST	Distribution	RTU	Roof Top Unit
DN	Down	SC	Surface Conduit
DPR	Damper	SEC	Secondary
DS	Safety Disconnect Switch	SHT	Sheet
DT	Double Throw	SIM	Similar
DWG	Drawing	SLD	Single-Line Diagram
EC	Electrical Contractor	S/N	Solid Neutral
ELEC	Electric, Electrical	SPEC	Specification
ELEV	Elevator	SPKR	Speaker
ELU	Emergency Lighting Unit	SP	Spare
EM	Emergency	SPP	Single-Point Power
EMS	Energy Management System	SR	Surface Raceway
EMT	Electrical Metallic Tubing	SS	Stainless Steel
EP	Electric Pneumatic	SSW	Selector Switch
EQUIP	Equipment	S/S	Stop/Start Pushbuttons
EWC	Electric Water Cooler	STA	Station
EXIST	Existing	STD	Standard
EXH	Exhaust	SURF	Surface Mounted
EXP	Explosion Proof	SW	Switch
FA	Fire Alarm	SWBD	Switchboard
FABP	Fire Alarm Booster Power Supply Panel	SYM	Symmetrical
		SYS	System
FACP	Fire Alarm Control Panel	TEL	Telephone
FCU	Fan Coil Unit	TERM	Terminal
FIXT	Fixture	TL	Twist Lock
FLR	Floor	TR	Tamper Resistant
FLUOR	Fluorescent	T-STAT	Thermostat
FU	Fuse	TTC	Telephone Terminal Cabinet
FUDS	Fused Safety Disconnect Switch	TV	Television
GA	Gauge	TVTC	Television Terminal Cabinet
GAL	Gallon	TYP	Typical
GALV	Galvanized	UC	Under Counter
GC	General Contractor	UE	Underground Electrical
GEN	Generator	UG	Underground
GFI	Ground Fault Circuit Interrupter	UH	Unit Heater
GFP	Ground Fault Protector	UT	Underground Telephone
GND	Ground	UTIL	Utility
GRS	Galvanized Rigid Steel (Conduit)	UV	Ultraviolet
GYP BD	Gypsum Board	V	Volt
HOA	Hands-Off-Automatic Switch	VA	Volt-Amperes
HORIZ	Horizontal	VDT	Video Display Terminal
HP	Horsepower	VERT	Vertical
HPF	High Power Factor	VFD	Variable Frequency Drive
HT	Height	VOL	Volume
HTG	Heating	W	Watt
HTR	Heater	W/	With
HV	High Voltage	WG	Wire Guard
HVAC	Heating, Ventilating And Air Conditioning	WH	Water Heater
		W/O	Without
IC	Interrupting Capacity	WP	Weatherproof
IG	Isolated Ground	XFMR	Transformer
IMC	Intermediate Metal Conduit	XFR	Transfer
INCAND	Incandescent		
IR	Infrared		
I/W	Interlock With		
J-BOX	Junction Box	∠	Angle
KV	Kilovolt	@	At
KVA	Kilovolt-Ampere	▲	Delta
KVAR	Kilovolt-Ampere Reactive	'	Feet
KW	Kilowatt	"	Inches
KWH	Kilowatt Hour	#	Number
LOC	Locate Or Location	Ø	Phase
LT	Light	C	Center Line
LTG	Lighting	P	Plate
LTNG	Lightning		
LV	Low Voltage		
MAX	Maximum		
MAG.S	Magnetic Starter		
M/C	Momentary Contact		
MC	Mechanical Contractor		

Electrical Symbol Legend

Lighting Symbols

- Lighting Fixtures, Typical, Rectangular (Various Symbols)
- Lighting Fixtures, Typical, Round (Various Symbols) Center dot indicates pendant. Chevron indicates wall wash.
- Wall-mounted fixtures, Typical (Various Symbols)
- Strip Fixture
- Directional Light, Track Light, Flood Light
- Linear Light, Tape Light
- Emergency Lighting Unit, Ceiling-Mounted, Integral Battery
- Emergency Lighting Unit, Ceiling-Mounted, Remote Battery
- Emergency Lighting Unit, Wall-Mounted, Integral Battery
- Emergency Lighting Unit, Wall-Mounted, Remote Battery
- Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons.
- Exit Light, Wall-Mounted. Shading and arrows indicate faces and directional chevrons.
- Exit/ELU Combo
- Pole/Area Lights
- Post-Top Area Light
- Bollard Light
- Hatch indicates light on an emergency or life safety circuit.
- $ Single-Pole Switch
- $ Two-Pole Switch
- $ Three-Pole Switch

Switch Modifiers:

3: 3-Way	OS: Occupancy Sensor
4: 4-Way	VS: Vacancy Sensor
K: Keyed	CT: Above-Counter
D: Dimming	LV: Low-Voltage
T: Timer	M: Motor-Rated

- Lighting Contactor
- LC Lighting Control Panel
- OS Occupancy Sensor
- DL Daylight Harvesting Sensor
- P Photocell

Lighting Tags

- Top Value: Fixture Type ID (Underlined)
- A
- Bottom Value, Lowercase Letter: Switch ID
- Bottom Value, Number(s): Circuit Number
- Bottom Value, Uppercase Letter(s): Panel

Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.

- $a Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.

Miscellaneous

- Area Not in Contract
- # Note by Symbol
- Callout: Top Value: Detail Number on Sheet Bottom Value: Sheet Number of Detail
- Room 1 Room Name and Number

Power Symbols

- Wall Ceiling Floor
- Simplex Receptacle
- Duplex Receptacle
- Quadruplex Receptacle
- 7' 30" Special Receptacle, Type as Indicated

Receptacle Modifiers:

- ##": Height AFF(to center)
- CT: Device Mounted Above Counter Top
- IG: Isolated Ground
- H: Device Mounted Horizontally
- WP: Weatherproof In-Use Cover

- Half shading indicates split (typically switched)
- Outside shading indicates tamperproof device
- Center shading indicates GFI type
- Full shading indicates tamperproof GFI type
- Multioutlet Assembly. Filled squares indicate 120V outlet. Open squares indicate with USB
- Cord Reel, Device Varies
- Drop Cord, Device Varies
- J Junction Box
- F1 Floor Box, see schedule for type
- Emergency Power Off
- DO Door Opener Push Plate
- M Power Meter
- Safety Switch, Fused
- Safety Switch, Unfused
- Motor Starter
- Combination Starter/Disconnect
- Contactor

Power Device and Equipment Tags

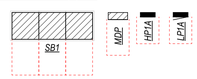
LP1A:1 — Electrical DeviceTags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

XX-1 — Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.

Wiring

- Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installtion, junction boxes, etc. shall be field-determined by the contractor.
- Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power.
- Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Homeruns are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment



Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel.

Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A:1" indicates the device is circuited to panel designated "A," circuit number 1.

- T1 Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.

Telecom Symbols

- Wall Ceiling Floor
- Data Outlet
- Telephone Outlet
- Data/Telephone Outlet

Outlet Modifiers:

- ##": Height AFF (to center)
- CT: Mounted Above Counter Top

- Wireless Access Point
- TV TV Outlet

GENERAL ELECTRICAL NOTES

A. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE.
B. VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.
C. ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
D. DEFINITION OF TERMS
   - "SHALL": ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
   - "FURNISH": CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.
   - "INSTALL": CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.
   - "PROVIDE": CONTRACTOR SHALL FURNISH AND INSTALL.

MOUNTING HEIGHT REQUIREMENTS:

UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:

• RECEPTACLES	16" TO BOTTOM
• TELECOMMUNICATIONS OUTLETS	16" TO BOTTOM
• LIGHT SWITCHES	48" TO TOP
• THERMOSTATS	48" TO TOP

GENERAL LIGHTING NOTES

A. THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
C. DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
D. IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR/POWER PACK SHALL SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.
E. CONTROL WIRING FOR 0-10 V-dc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1, ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF (2) #16 SOLID CU THHN OR TFN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (- V-dc). WHERE MC-CABLE IS USED FOR FINAL 6' POWER CONNECTION WHIP TO LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.

GENERAL POWER NOTES

A. THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT STUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING ROUGH-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.
C. WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO_2 SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING IN RACEWAY. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.

GENERAL TELECOMMUNICATIONS NOTES

A. PROVIDE THE FOLLOWING RACEWAY ROUGH-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED:
   - WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
   - PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 1-GANG DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
   - TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 2-GANG DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING.
B. PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLING FROM DAMAGE.
C. CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS, STUB CONDUIT INTO STRUCTURAL JOIST SPACE.
D. PROVIDE BLANK, STAINLESS STEEL COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.
E. PROVIDE SUITABLE PULL STRING IN ALL CONDUITS.
F. ALL TELECOMMUNICATIONS AND A/V CABLING, JACKS, CONNECTORS, TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.

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Project 25035 **08/12/2025**

Electrical Sheet List

E0.1	ELECTRICAL TITLE SHEET
E4.1	UNIT POWER PLANS-CITYSIDE-2B
E4.2	UNIT POWER PLANS-CITYSIDE-3A
E4.3	UNIT POWER PLANS-PARKSIDE-2A
E4.4	UNIT POWER PLANS-PARKSIDE-3A
E6.1	ELECTRICAL SCHEDULES - DWELLINGS
E6.2	ELECTRICAL SCHEDULES - HOUSE
EC1.1	ELECTRICAL PLANS CLUBHOUSE

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LENEXA CITY CENTER_NORTH VILLAGE TOWNHOMES

NEW TOWNHOMES COMPLEX

LENEXA, KANSAS

RYAN PATRICK LYNCH LICENSED KANSAS 24155 PROFESSIONAL ENGINEER
08-12-2025

REVISIONS:

DATE: 08/12/2025
JOB: 25-3489
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E0.1

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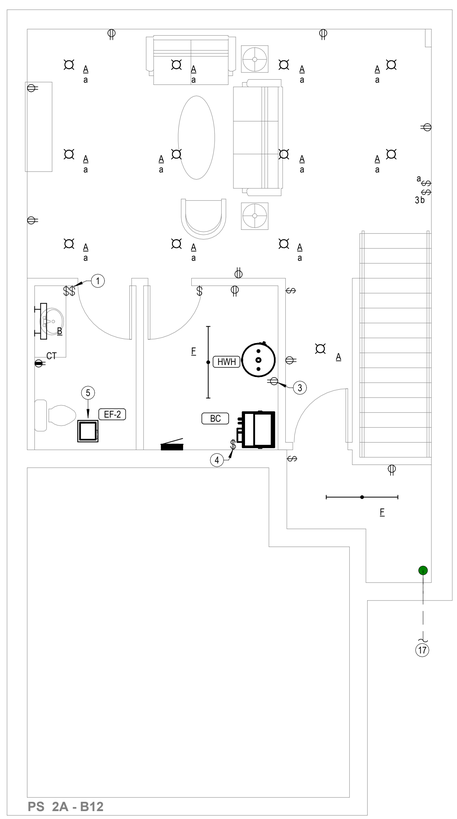
Project 25035 **08/12/2025**

NOTE:
VERIFY ALL RECEPTACLE AND SWITCH LOCATIONS WITH OWNER AND G.C.

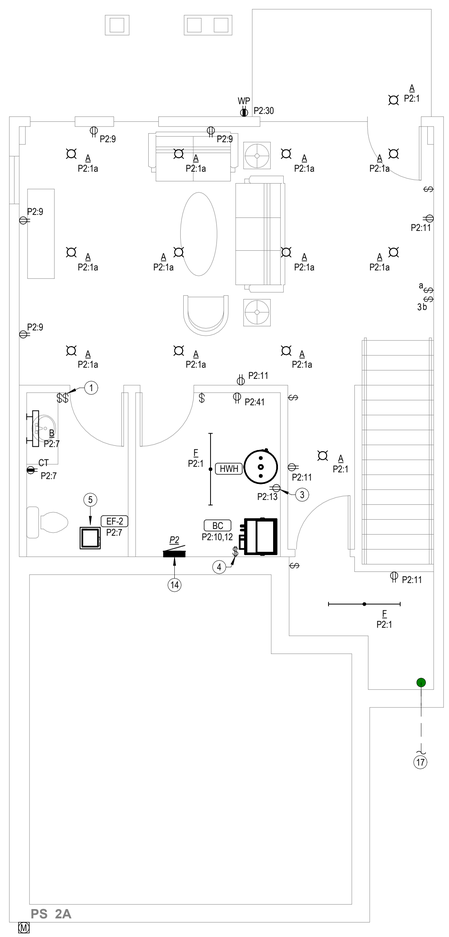
NOTES BY SYMBOL

1. SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
2. PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN FOR 45 MINUTES PER HOUR.
3. 120V DUPLEX RECEPTACLE FOR PLUG & CORD CONNECTION OF WATER HEATER 'HWH'.
4. PROVIDE 60A/2P SNAP SWITCH AND MAKE CONNECTION TO BLOWER COIL 'BC'.
5. CONNECT EXHAUST FAN/LIGHT PROVIDE BY MECHANICAL CONTRACTOR.
6. PROVIDE 120V DUPLEX RECEPTACLE FOR PLUG AND CORD CONNECTION OF GAS RANGE. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDED.
7. PROVIDE DUPLEX RECEPTACLE OR JUNCTION BOX IN CABINET ABOVE RANGE FOR CONNECTION TO MICROWAVE/RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED.
8. PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND PLUG AS REQUIRED.
9. PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF GARBAGE DISPOSAL. PROVIDE CORD AND PLUG AS REQUIRED. DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
10. CONDENSING UNIT ON ROOF. SEE ME1.1 - ME1.3 ROOF PLANS FOR EXACT UNIT TYPE AND LOCATION.
11. 60A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MOUNT SWITCH TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. MAKE FINAL CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY.
12. MOUNT RECEPTACLE TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS.
13. PROVIDE CEILING RECEPTACLE FOR GARAGE DOOR OPENER AND COORDINATE EXACT LOCATION WITH G.C.
14. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM PANEL TO ACCESSIBLE LOCATION IN ATTIC.
15. PROVIDE ROUGH-IN FOR DOORBELL, COORDINATE EXACT REQUIREMENTS WITH OWNER AND G.C.
16. ELECTRIC SERVICE METER, SEE RISER DIAGRAM ON E6.1 FOR MORE INFORMATION.
17. PROVIDE 1-1/2" CONDUIT WITH PULL STRING FOR TELECOMMUNICATIONS SERVICE. COORDINATE EXACT ROUTING AND REQUIREMENTS WITH UTLITY PROVIDER.

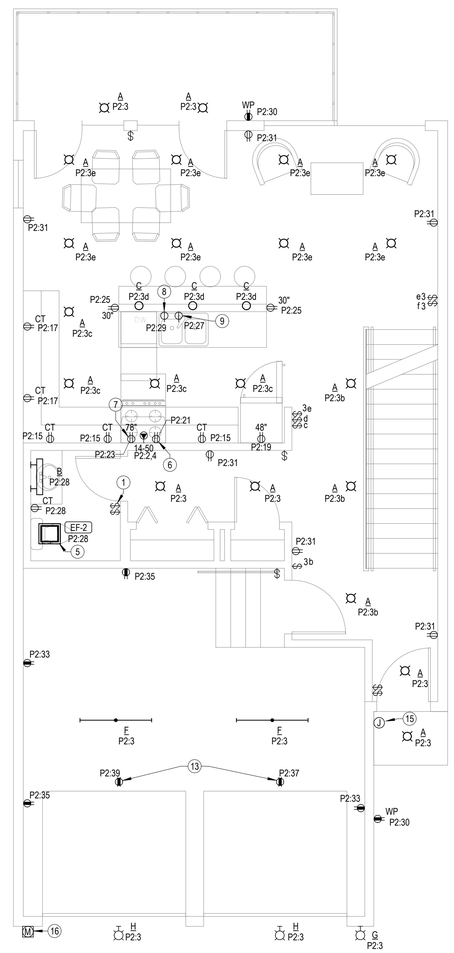
CIRCUITING SIMILAR TO 1:E4.3.



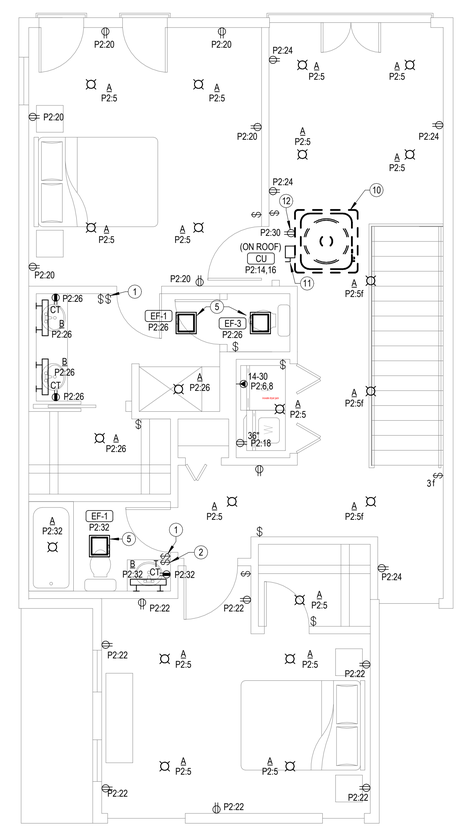
4 POWER PLAN-BASEMENT-PARKSIDE-B12
1/4" = 1'-0"



1 POWER PLAN-BASEMENT-PARKSIDE-2A
1/4" = 1'-0"



2 POWER PLAN-SECOND FLOOR-PARKSIDE-2A
1/4" = 1'-0"



3 POWER PLAN-THIRD FLOOR-PARKSIDE-2A
1/4" = 1'-0"

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Project 25035 **08/12/2025**

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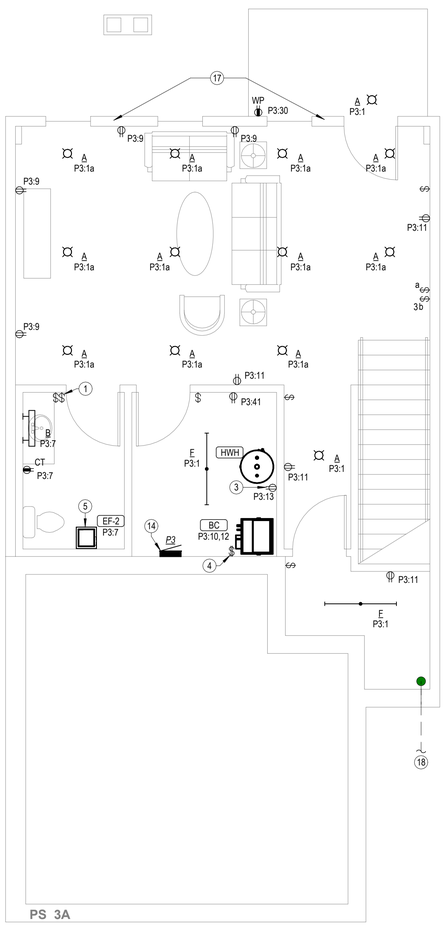
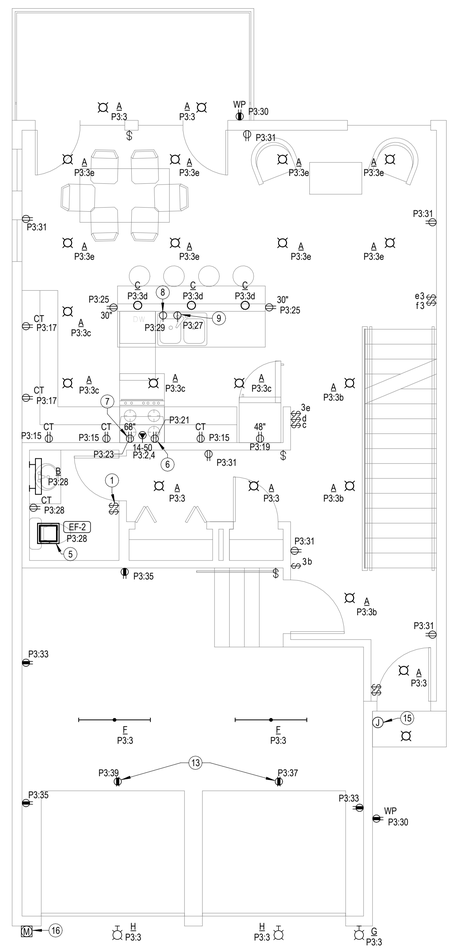
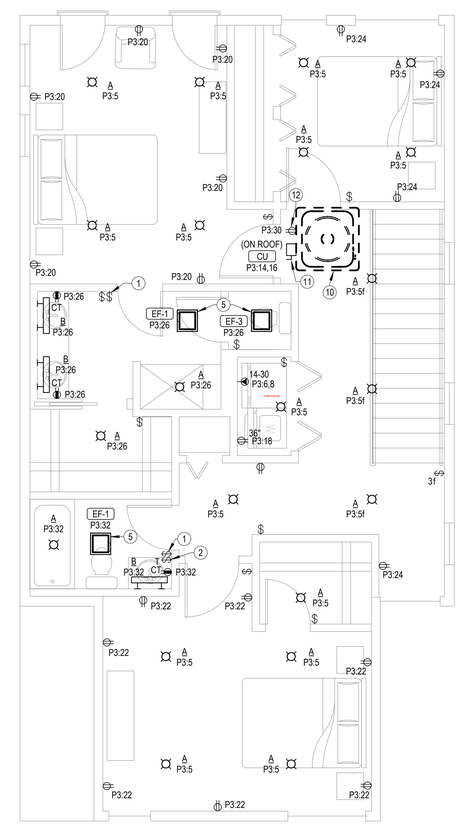
15. PROVIDE ROUGH-IN FOR DOORBELL, COORDINATE EXACT REQUIREMENTS WITH OWNER AND G.C.
16. ELECTRIC SERVICE METER, SEE RISER DIAGRAM ON E6.1 FOR MORE INFORMATION.
17. AT BUILDING 12 BASEMENT PLAN VARIES, SEE PLAN 4:E4.3 FOR LAYOUT.
18. PROVIDE 1-1/2" CONDUIT WITH PULL STRING FOR TELECOMMUNICATIONS SERVICE. COORDINATE EXACT ROUTING AND REQUIREMENTS WITH UTLITY PROVIDER.



1 POWER PLAN-BASEMENT-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)



2 POWER PLAN-SECOND FLOOR-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)



3 POWER PLAN-THIRD FLOOR-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)

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NEW TOWNHOMES COMPLEX

LENEXA, KANSAS

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KANSAS
PROFESSIONAL ENGINEER
08-12-2025

REVISIONS:

DATE: 08/12/2025
JOB: 25-3489
SHEET NO.:

E4.4

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Project 25035 **08/12/2025**

Designation: P2

Installed Location: Mechanical Room
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Flush
Enclosure: NEMA 1
Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A			B			FN	Trip (A)	Circuitry	Description	Ckt
P2:1	BASEMENT LIGHTS	1/2"C,1#12,#12N,#12G	20	A	1.8 A	35....					G	50	3/4"C,2#6,#10G	RANGE	P2:2
P2:3	2ND FLOOR LIVING/KITCHEN/HALL LIGHTS	1/2"C,1#12,#12N,#12G	20	A				2.8 A	35....						P2:4
P2:5	3RD FLOOR LIGHTS	1/2"C,1#12,#12N,#12G	20	A	1.7 A	35....					G	50	3/4"C,2#6,#10G	CLOTHES DRYER	P2:6
P2:7	BASEMENT BATHROOM	1/2"C,1#12,#12N,#12G	20					1.9 A	35....						P2:8
P2:9	BASEMENT LIVING RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	6.0 A	6.0 A						20	1/2"C,2#12,#12G	BLOWER COIL	P2:10
P2:11	BASEMENT HALL/STORAGE/MECH RECEPTS	1/2"C,1#12,#12N,#12G	20	A				6.0 A	6.0 A						P2:12
P2:13	HOT WATER HEATER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	19....						30	1/2"C,2#10,#10G	CONDENSING UNIT	P2:14
P2:15	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				4.5 A	19....						P2:16
P2:17	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	1.5 A					AG	20	1/2"C,1#12,#12N,#12G	CLOTHES WASHER RECEPTACLE	P2:18
P2:19	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	9.0 A		A	20	1/2"C,1#12,#12N,#12G	MASTER BEDROOM	P2:20
P2:21	RANGE	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	10....					A	20	1/2"C,1#12,#12N,#12G	BEDROOM 2 RECEPTACLES	P2:22
P2:23	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	7.5 A		A	20	1/2"C,1#12,#12N,#12G	LOFT/HALL RECEPTACLES	P2:24
P2:25	ISLAND RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	3.9 A						20	1/2"C,1#12,#12N,#12G	MASTER BATHROOM	P2:26
P2:27	GARBAGE DISPOSER	1/2"C,1#12,#12N,#12G	20	AG				4.2 A	1.9 A			20	1/2"C,1#12,#12N,#12G	2ND FLOOR HALF BATH	P2:28
P2:29	DISHWASHER	1/2"C,1#12,#12N,#12G	20	AG	4.2 A	6.0 A					G	20	1/2"C,1#12,#12N,#12G	EXTERIOR RECEPTACLES	P2:30
P2:31	2ND FLOOR LIVING/HALL RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A				9.0 A	2.0 A		A	20	1/2"C,1#12,#12N,#12G	3RD FLOOR HALL BATHROOM	P2:32
P2:33	GARAGE RECEPTACLES	1/2"C,1#12,#12N,#12G	20		3.0 A	--					--	--	--	Space	P2:34
P2:35	GARAGE RECEPTACLES	1/2"C,1#12,#12N,#12G	20					3.0 A	--		--	--	--	Space	P2:36
P2:37	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	--					--	--	--	Space	P2:38
P2:39	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	--		--	--	--	Space	P2:40
P2:41	MECHANICAL ROOM RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	--					--	--	--	Space	P2:42

Designation: C2

Installed Location: Mechanical Room
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Flush
Enclosure: NEMA 1
Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A			B			FN	Trip (A)	Circuitry	Description	Ckt
C2:1	BASEMENT LIGHTING	1/2"C,1#12,#12N,#12G	20	A	2.0 A	35....					G	50	3/4"C,2#6,#10G	RANGE	C2:2
C2:3	2ND FLOOR LIGHTING	1/2"C,1#12,#12N,#12G	20	A				2.3 A	35....						C2:4
C2:5	3RD FLOOR LIGHTING	1/2"C,1#12,#12N,#12G	20	A	1.8 A	0.8 A					G	20	1/2"C,2#12,#12G	CLOTHES DRYER	C2:6
C2:7	BASEMENT BATHROOM	1/2"C,1#12,#12N,#12G	20					1.9 A	0.8 A						C2:8
C2:9	BASEMENT LIVING RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	9.0 A	6.0 A						20	1/2"C,2#12,#12G	BLOWER COIL	C2:10
C2:11	HOT WATER HEATER RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	6.0 A						C2:12
C2:13	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	19....						30	1/2"C,2#10,#10G	CONDENSING UNIT	C2:14
C2:15	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				3.0 A	19....						C2:16
C2:17	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	1.9 A						20	1/2"C,1#12,#12N,#12G	2ND FLOOR HALF BATH	C2:18
C2:19	RANGE	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	6.0 A	AG		20	1/2"C,1#12,#12N,#12G	2ND FLOOR DINING RECEPTACLES	C2:20
C2:21	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	6.0 A					G	20	1/2"C,1#12,#12N,#12G	EXTERIOR RECEPTACLES	C2:22
C2:23	ISLAND RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				3.0 A	3.0 A			20	1/2"C,1#12,#12N,#12G	GARAGE RECEPTACLES	C2:24
C2:25	GARBAGE DISPOSER	1/2"C,1#12,#12N,#12G	20	AG	4.2 A	3.0 A						20	1/2"C,1#12,#12N,#12G	GARAGE RECEPTACLES	C2:26
C2:27	DISHWASHER	1/2"C,1#12,#12N,#12G	20	AG				4.2 A	1.5 A	AG		20	1/2"C,1#12,#12N,#12G	CLOTHES WASHER RECEPTACLE	C2:28
C2:29	2ND FLOOR LIVING RM RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	6.0 A	7.5 A					A	20	1/2"C,1#12,#12N,#12G	MASTER BEDROOM RECEPTACLES	C2:30
C2:31	2ND FLOOR LIVING RM CASEWORK RECEPT	1/2"C,1#12,#12N,#12G	20	A				6.0 A	9.0 A	A	A	20	1/2"C,1#12,#12N,#12G	BEDROOM 2 RECEPTACLES	C2:32
C2:33	2ND FLOOR LIVING - FIREPLACE RECEPT	1/2"C,1#12,#12N,#12G	20	A	1.5 A	6.0 A					A	20	1/2"C,1#12,#12N,#12G	BEDROOM 3 RECEPTACLES	C2:34
C2:35	Space	--	--					--	3.8 A			20	1/2"C,1#12,#12N,#12G	MASTER BATHROOM	C2:36
C2:37	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	2.0 A						20	1/2"C,1#12,#12N,#12G	3RD FLOOR HALL BATHROOM	C2:38
C2:39	MECHANICAL ROOM RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	--		--	--	--	Space	C2:40
C2:41	Space	--	--		--	--					--	--	--	Space	C2:42

Breaker Function Schedule

A	Arc-Fault Interrupter (AFCI) Protection
AG	Combination Arc-Fault Interrupter (AFCI) Protection and Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)

Designation: P3

Installed Location: Mechanical Room
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Flush
Enclosure: NEMA 1
Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A			B			FN	Trip (A)	Circuitry	Description	Ckt
P3:1	BASEMENT LIGHTS	1/2"C,1#12,#12N,#12G	20	A	1.8 A	35....					G	50	3/4"C,2#6,#10G	RANGE	P3:2
P3:3	2ND FLOOR LIVING/KITCHEN/HALL LIGHTS	1/2"C,1#12,#12N,#12G	20	A				2.8 A	35....						P3:4
P3:5	3RD FLOOR LIGHTS	1/2"C,1#12,#12N,#12G	20	A	1.7 A	35....					G	50	3/4"C,2#6,#10G	CLOTHES DRYER	P3:6
P3:7	BASEMENT BATHROOM	1/2"C,1#12,#12N,#12G	20					1.9 A	35....						P3:8
P3:9	BASEMENT LIVING RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	6.0 A	6.0 A						20	1/2"C,2#12,#12G	BLOWER COIL	P3:10
P3:11	BASEMENT HALL/STORAGE/MECH RECEPTS	1/2"C,1#12,#12N,#12G	20	A				6.0 A	6.0 A						P3:12
P3:13	HOT WATER HEATER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	19....						30	1/2"C,2#10,#10G	CONDENSING UNIT	P3:14
P3:15	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				4.5 A	19....						P3:16
P3:17	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	1.5 A					AG	20	1/2"C,1#12,#12N,#12G	CLOTHES WASHER RECEPTACLE	P3:18
P3:19	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	9.0 A		A	20	1/2"C,1#12,#12N,#12G	MASTER BEDROOM	P3:20
P3:21	RANGE	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	10....					A	20	1/2"C,1#12,#12N,#12G	BEDROOM 2 RECEPTACLES	P3:22
P3:23	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	7.5 A		A	20	1/2"C,1#12,#12N,#12G	LOFT/HALL RECEPTACLES	P3:24
P3:25	ISLAND RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	3.9 A						20	1/2"C,1#12,#12N,#12G	MASTER BATHROOM	P3:26
P3:27	GARBAGE DISPOSER	1/2"C,1#12,#12N,#12G	20	AG				4.2 A	1.9 A			20	1/2"C,1#12,#12N,#12G	2ND FLOOR HALF BATH	P3:28
P3:29	DISHWASHER	1/2"C,1#12,#12N,#12G	20	AG	4.2 A	6.0 A					G	20	1/2"C,1#12,#12N,#12G	EXTERIOR RECEPTACLES	P3:30
P3:31	2ND FLOOR LIVING/HALL RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A				9.0 A	2.0 A			20	1/2"C,1#12,#12N,#12G	3RD FLOOR HALL BATHROOM	P3:32
P3:33	GARAGE RECEPTACLES	1/2"C,1#12,#12N,#12G	20		3.0 A	--					--	--	--	Space	P3:34
P3:35	GARAGE RECEPTACLES	1/2"C,1#12,#12N,#12G	20					3.0 A	--		--	--	--	Space	P3:36
P3:37	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	--					--	--	--	Space	P3:38
P3:39	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	--		--	--	--	Space	P3:40
P3:41	MECHANICAL ROOM RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	--					--	--	--	Space	P3:42

Designation: C3

Installed Location: Mechanical Room
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Flush
Enclosure: NEMA 1
Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A			B			FN	Trip (A)	Circuitry	Description	Ckt
C3:1	BASEMENT LIGHTING	1/2"C,1#12,#12N,#12G	20	A	2.0 A	35....					G	50	3/4"C,2#6,#10G	RANGE	C3:2
C3:3	2ND FLOOR LIGHTING	1/2"C,1#12,#12N,#12G	20	A				2.3 A	35....						C3:4
C3:5	3RD FLOOR LIGHTING	1/2"C,1#12,#12N,#12G	20	A	1.8 A	0.8 A					G	20	1/2"C,2#12,#12G	CLOTHES DRYER	C3:6
C3:7	BASEMENT BATHROOM	1/2"C,1#12,#12N,#12G	20					1.9 A	0.8 A						C3:8
C3:9	BASEMENT LIVING RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	9.0 A	6.0 A						20	1/2"C,2#12,#12G	BLOWER COIL	C3:10
C3:11	HOT WATER HEATER RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	6.0 A						C3:12
C3:13	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG	3.0 A	19....						30	1/2"C,2#10,#10G	CONDENSING UNIT	C3:14
C3:15	COUNTERTOP RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				3.0 A	19....						C3:16
C3:17	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	1.9 A						20	1/2"C,1#12,#12N,#12G	2ND FLOOR HALF BATH	C3:18
C3:19	RANGE	1/2"C,1#12,#12N,#12G	20	AG				1.5 A	6.0 A	AG		20	1/2"C,1#12,#12N,#12G	2ND FLOOR DINING RECEPTACLES	C3:20
C3:21	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	AG	1.5 A	6.0 A					G	20	1/2"C,1#12,#12N,#12G	EXTERIOR RECEPTACLES	C3:22
C3:23	ISLAND RECEPTACLES	1/2"C,1#12,#12N,#12G	20	AG				3.0 A	3.0 A			20	1/2"C,1#12,#12N,#12G	GARAGE RECEPTACLES	C3:24
C3:25	GARBAGE DISPOSER	1/2"C,1#12,#12N,#12G	20	AG	4.2 A	3.0 A						20	1/2"C,1#12,#12N,#12G	GARAGE RECEPTACLES	C3:26
C3:27	DISHWASHER	1/2"C,1#12,#12N,#12G	20	AG				4.2 A	1.5 A	AG		20	1/2"C,1#12,#12N,#12G	CLOTHES WASHER RECEPTACLE	C3:28
C3:29	2ND FLOOR LIVING RM RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	7.5 A	7.5 A					A	20	1/2"C,1#12,#12N,#12G	MASTER BEDROOM RECEPTACLES	C3:30
C3:31	2ND FLOOR LIVING RM CASEWORK RECEPT	1/2"C,1#12,#12N,#12G	20	A				6.0 A	9.0 A	A	A	20	1/2"C,1#12,#12N,#12G	BEDROOM 2 RECEPTACLES	C3:32
C3:33	2ND FLOOR LIVING - FIREPLACE RECEPT	1/2"C,1#12,#12N,#12G	20	A	1.5 A	7.5 A					A	20	1/2"C,1#12,#12N,#12G	BEDROOM 3 RECEPTACLES	C3:34
C3:35	Space	--	--					--	3.8 A			20	1/2"C,1#12,#12N,#12G	MASTER BATHROOM	C3:36
C3:37	GARAGE DOOR OPENER RECEPTACLE	1/2"C,1#12,#12N,#12G	20		1.5 A	2.0 A						20	1/2"C,1#12,#12N,#12G	3RD FLOOR HALL BATHROOM	C3:38
C3:39	MECHANICAL ROOM RECEPTACLE	1/2"C,1#12,#12N,#12G	20					1.5 A	--		--	--	--	Space	C3:40
C3:41	Space	--	--		--	--					--	--	--	Space	C3:42

LIGHT FIXTURE SCHEDULE - DWELLING UNITS

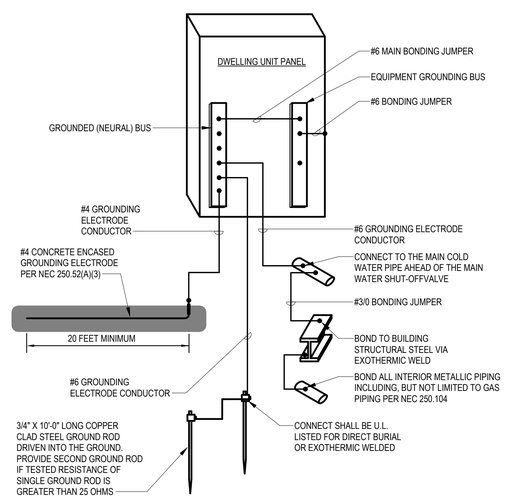
NOTES:
1. WHERE FIXTURE IS LOCATED ABOVE SHOWER/BATHTUB, ON EXTERIOR, OR IN CLOSET ENSURE FIXTURE IS RATED APPROPIATELY.
2. COORDINATE FIXTURE FINISH WITH OWNER AND ARCHITECT.
3. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER AND ARCHITECT.
4. PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.

MARK	DESCRIPTION	WATTAGE	LUMEN OUTPUT	MOUNTING	NOTES
A	6" DIA ROUND LED SURFACE MOUNT DOWNLIGHT	10 W	800 lm	CEILING SURFACE	1,2
B	LED BATHROOM VANITY LIGHT			SURFACE WALL	2,3
C	LED ISLAND PENDANT LIGHT	10 W	650 lm	CEILING SURFACE	2,3
E	TWO HEAD EMERGENCY LIGHT			SURFACE WALL	4
F	4' LED STRIP LIGHT	30 W	4000 lm	CEILING SURFACE	2
G	EXTERIOR ARCHITECTURAL WALL SCONCE LIGHT			SURFACE WALL	2,3
H	EXTERIOR SCONCE CYLINDER LIGHT			SURFACE WALL	2,3

LIGHT FIXTURE SCHEDULE - SITE

NOTES:
1. U.L. LISTED FOR 'WET LOCATION'.
2. PROVIDE FIXTURE/POLE ASSEMBLY WITH 15' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
3. FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPERS PER MANUFACTURER'S RECOMMENDATIONS.

MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
R1	LUMINIS	EC800-L1L40-LD3-40K-120-SD30-LV3-PM-BLC-BKT	38 W	3742 lm	STANDARD	POLE	BLACK	LED POST TOP AREA LIGHT, IES TYPE III DISTRIBUTION WITH BACKLIGHT CONTROL	1,2,3



2 **GROUNDING ELECTRODE SYSTEM DIAGRAM - DWELLING**
NO SCALE

NOTES:
- See E4.1, E4.2, E4.3, E4.4, and Civil drawings for meter locations.
- Entire installation shall comply with NEC requirements.
- Coordinate all responsibilities and requirements with utility company and pay all fees

Contact Information:
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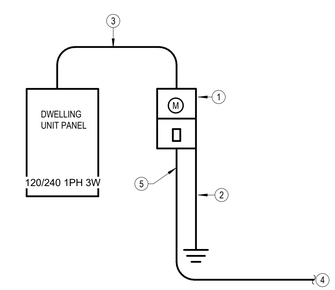
Roger.Ricondo@evergy.com
816-652-1664

NOTES BY SYMBOL

1	PROVIDE AND INSTALL EVERGY APPROVED, COMBINATION METER SOCKET WITH INTEGRAL 150A MAIN CIRCUIT BREAKER. COORDINATE RESPONSIBILITIES AND PAY ALL FEES. CENTERLINE OF SOCKET SHALL BE 60"-66" AFG. REFERENCE EVERGY APPROVED EQUIPMENT LIST. PROVIDE #6 BARE COPPER WIRE AND CONNECT TO GROUND ROD.
2	GROUNDING ELECTRODE CONDUCTOR, SEE DETAIL, THIS SHEET.
3	(3)#1/0, #6G., 1-1/2"C. OR SER
4	PROVIDE ALL TRENCHING PER EVERGY REQUIREMENTS AND INSTALL 3" CONDUIT WITH PULL STRING FROM TRANSFORMER TO METER. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
5	PROVIDE EVERGY APPROVED SLIP JOINT.



1 **ELECTRIC SERVICE RISER DIAGRAM - DWELLING**
NO SCALE

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LENEXA CITY CENTER_NORTH VILLAGE TOWNHOMES
NEW TOWNHOMES COMPLEX
LENEXA, KANSAS

RYAN PATRICK LIPP LICENSED 24155 KANSAS PROFESSIONAL ENGINEER
08-12-2025

REVISIONS:

DATE: 08/12/2025
JOB: 25-3489
SHEET NO.:
E6.1

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Designation: H9

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 100
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H9:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 189...			30	3/4"C,2#8,#8N,#8G	Panel 'H7'	H9:2
H9:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 168...					H9:4
H9:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... 189...			30	3/4"C,2#10,#10N,#10G	Panel 'H11'	H9:6
H9:7	Electric Wall Heater - EWH	1/2"C,2#12,#12G	20			150... 168...					H9:8
H9:9					150... --			--	--	Space	H9:10
H9:11	Space	--	--			-- --		--	--	Space	H9:12
					Connected Load:	5680 VA	5040 VA				
					Connected Amps:	47.3 A	42.0 A				

Designation: H11

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H11:1	Electric Wall Heater - EWH	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H11:2
H11:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H11:4
H11:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360...						
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

Designation: H12

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H12:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H12:2
H12:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H12:4
H12:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H12:6
H12:7	Space	--	--			-- --		--	--	Space	H12:8
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

Designation: H10

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 100
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H10:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 189...			30	3/4"C,2#6,#6N,#6G	Panel 'H8'	H10:2
H10:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 168...					H10:4
H10:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... 189...			30	1/2"C,2#10,#10N,#10G	Panel 'H12'	H10:6
H10:7	Electric Wall Heater - EWH	1/2"C,2#12,#12G	20			150... 168...					H10:8
H10:9					150... --			--	--	Space	H10:10
H10:11	Space	--	--			-- --		--	--	Space	H10:12
					Connected Load:	5680 VA	5040 VA				
					Connected Amps:	47.3 A	42.0 A				

Designation: H8

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H8:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H8:2
H8:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H8:4
H8:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H8:6
H8:7	Space	--	--			-- --		--	--	Space	H8:8
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

Designation: H6

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H6:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H6:2
H6:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H6:4
H6:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H6:6
H6:7	Space	--	--			-- --		--	--	Space	H6:8
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

Designation: H4

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 100
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H4:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 189...			30	1/2"C,2#10,#10N,#10G	Panel 'H6'	H4:2
H4:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 168...					H4:4
H4:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H4:6
H4:7	Electric Wall Heater - EWH	1/2"C,2#12,#12G	20			150... --		--	--	Space	H4:8
H4:9					150... --			--	--	Space	H4:10
H4:11	Space	--	--			-- --		--	--	Space	H4:12
					Connected Load:	3787 VA	3360 VA				
					Connected Amps:	31.6 A	28.0 A				

Designation: HS

Installed Location:
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 3R
Bus Amps: 100
MCB Amps: 100
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
HS:1	Street Lights	1/2"C,1#12,#12N,#12G	20		253... 0 VA			20	1/2"C,1#12,#12N,#12G	Site Lighting Controls	HS:2
HS:3	Street Lights	1/2"C,1#10,#10N,#10G	20			253... 0 VA		20	--	Spare	HS:4
HS:5	Monument Sign	1/2"C,1#12,#12N,#12G	20		360... 0 VA			20	--	Spare	HS:6
HS:7	Monument Sign	3/4"C,1#6,#6N,#6G	20			360... --		--	--	Space	HS:8
HS:9	Irrigation Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	HS:10
HS:11	Irrigation Controls	1/2"C,1#6,#6N,#8G	20			360... --		--	--	Space	HS:12
					Connected Load:	973 VA	973 VA				
					Connected Amps:	8.1 A	8.1 A				

Designation: H3

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 100
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H3:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 189...			30	3/4"C,2#10,#10N,#10G	Panel 'H5'	H3:2
H3:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 168...					H3:4
H3:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H3:6
H3:7	Electric Wall Heater - EWH	1/2"C,2#12,#12G	20			150... --		--	--	Space	H3:8
H3:9					150... --			--	--	Space	H3:10
H3:11	Space	--	--			-- --		--	--	Space	H3:12
					Connected Load:	3787 VA	3360 VA				
					Connected Amps:	31.6 A	28.0 A				

Designation: H5

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H5:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H5:2
H5:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H5:4
H5:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H5:6
H5:7	Space	--	--			-- --		--	--	Space	H5:8
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

Designation: H7

Installed Location: Fire Riser Closet
Voltage: 120/240 1PH 3W-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 100
MCB Amps: 30
Features & Modifications: Provide integral surge protection.
SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
H7:1	Closet Light	1/2"C,1#12,#12N,#12G	20		33... 150...			20	1/2"C,2#12,#12G	Electric Wall Heater - EWH	H7:2
H7:3	Closet Receptacle	1/2"C,1#12,#12N,#12G	20			180... 150...					H7:4
H7:5	Fire Service Controls	1/2"C,1#12,#12N,#12G	20		360... --			--	--	Space	H7:6
H7:7	Space	--	--			-- --		--	--	Space	H7:8
					Connected Load:	1893 VA	1680 VA				
					Connected Amps:	15.8 A	14.0 A				

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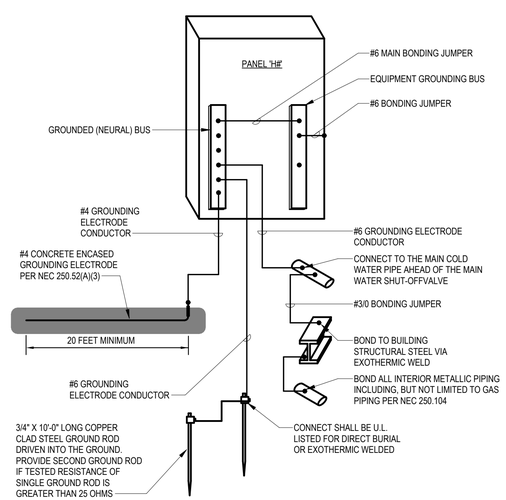
Project 25035 **08/12/2025**

Breaker Function Schedule

A	Arc-Fault Interrupter (AFCI) Protection
AG	Combination Arc-Fault Interrupter (AFCI) Protection and Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)



2 **GROUNDING ELECTRODE SYSTEM DIAGRAM - HOUSE**
NO SCALE
DETAIL TYPICAL FOR PANELS 'H4', 'H10', 'H3', 'H9', AND 'HS'

NOTES:
- See ME1.4, ME1.5, ME1.6, and Civil drawings for meter locations.
- Entire installation shall comply with NEC requirements.
- Coordinate all responsibilities and requirements with utility company and pay all fees

Contact Information:
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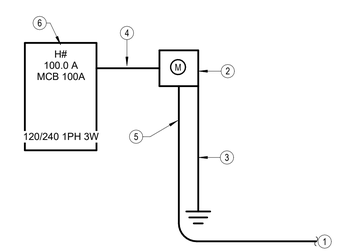
NOTES BY SYMBOL

1. PROVIDE ALL TRENCHING PER EVERGY REQUIREMENTS AND INSTALL 3" CONDUIT WITH PULL STRING FROM TRANSFORMER TO METER. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
2. PROVIDE AND INSTALL EVERGY APPROVED METER SOCKET. COORDINATE RESPONSIBILITIES AND PAY ALL FEES. CENTERLINE OF SOCKET SHALL BE 60"-66" AFG. REFERENCE EVERGY APPROVED EQUIPMENT LIST. PROVIDE #6 BARE COPPER WIRE AND CONNECT TO GROUND ROD.
3. GROUNDING ELECTRODE CONDUCTOR, SEE DETAIL, THIS SHEET.
4. (3)#1, #8G., 1-1/4"C.
5. PROVIDE EVERGY APPROVED SLIP JOINT.
6. HOUSE PANEL DESIGNATION. '#' INDICATES BUILDING NUMBER OR 'S' FOR SITE.



1 **ELECTRIC SERVICE RISER DIAGRAM - HOUSE**
NO SCALE
DETAIL TYPICAL FOR PANELS 'H4', 'H10', 'H3', 'H9', AND 'HS'

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Project 25035 **08/12/2025**

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC Symbols

- 24"/12" — Sq. Duct Size (Width/Height)
- 24"x12"FO — Oval Duct Size (Width x Height)
- 18"Ø — Round Duct Size (Diameter)
- (E) — Existing Duct To Remain
- Duct To Be Demolished
- S/A — Supply Air
- V/A — Ventilation Air
- O/A — Outdoor Air
- R/A — Return Air
- T/A — Transfer Air
- E/A — General Exhaust Air
- KED — Kitchen Exhaust Duct
- FLUE — Flue Gas Vent
- C/A — Combustion Air
- Rect. Supply Duct Rise / Drop
- Round Supply Duct Rise / Drop
- Rect. Return Duct Rise / Drop
- Round Return Duct Rise / Drop
- Rect. Exhaust Duct Rise / Drop
- Round Exhaust Duct Rise / Drop

Grille, Register, Diffusers

Square Ceiling Diffuser — CD- 500 / 10"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

Round Ceiling Diffuser — CD11 100 / 6"Ø / TYP. X 4 — Type (See Schedule), Airflow, Neck Size, Type Count for Space

Sidewall Supply Grille — SG5 300 / 18"/6" / AFF 0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

Linear Diffuser — SD- 200 / 8"Ø/2s/4'-0"L — Type (See Schedule), Airflow, Neck Size/ Slot(s)/ Active Length

Sidewall Return Grille — RG 200 / 12"/6" / AFF 0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

Ceiling Return — CR2 200 / 8"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

Mechanical Equipment

- RTU-1 — Unit Identity
- E)AHU-2 — Existing to Remain Equipment
- R)AHU-3 — Existing Relocated Equipment
- Equipment By Others (Refer To Other Disciplines)

Mechanical Control Devices

- T — Thermostat
- H — Humidistat
- TS — Temperature Sensor
- HS — Humidity Sensor
- CO2 — Carbon Dioxide Detector
- HZG — Hazardous Gas Detector

Damper Types

- B — Manual Damper
- M — Motorized Damper
- C — Backdraft Damper
- Z — Smoke Damper
- Fire Damper
- Z — Comb. Fire/ Smoke Damper

HVAC SHEET INDEX

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M4.1	UNIT HVAC PLANS-CITYSIDE-2B
M4.2	UNIT HVAC PLANS-CITYSIDE-3A
M4.3	UNIT HVAC PLANS-PARKSIDE-2A
M4.4	UNIT HVAC PLANS-PARKSIDE-3A
M6.1	HVAC SCHEDULES
M9.1	UNIT HVAC RISERS
MC1.1	UNIT HVAC PLANS CLUBHOUSE
ME1.0	M/E SITE PLAN
ME1.1	ROOF PLANS 3-5
ME1.2	ROOF PLANS 6-8
ME1.3	ROOF PLANS 9-12
ME1.4	M/E PLANS BUILDINGS 3-5
ME1.5	M/E PLANS BUILDINGS 6-8
ME1.6	M/E PLANS BUILDINGS 9-12

GENERAL HVAC NOTES

A. CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES.
B. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER. WHERE INSTALLED ABOVE CEILINGS, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
C. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
D. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING.
E. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
F. HVAC EQUIPMENT SHALL NOT BE UTILIZED UNTIL ALL DUCT PRODUCING CONSTRUCTION ACTIVITY HAS BEEN COMPLETED. CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM OWNER PRIOR TO EQUIPMENT STARTUP, AND TO REPLACE FILTERS ON HVAC EQUIPMENT UPON FINAL COMPLETION.
G. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
H. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
I. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
J. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOFS WITHOUT A 42" HIGH PARAPET OR GUARD RAIL. WHERE PROVIDING 10'-0" SEPARATION FROM ROOF EDGE IS NOT POSSIBLE, PROVIDE PERMANENT FALL ARREST ANCHORS COMPLIANT WITH ANSIASSP Z359.1. COORDINATE WITH GENERAL CONTRACTOR.
K. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
L. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
M. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
N. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
O. TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
P. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
Q. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
R. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
S. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
T. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
U. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

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Project 25035 **08/12/2025**

NOTES BY SYMBOL

1. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CONDENSING UNIT ON ROOF CONCEALED IN WALLS.
2. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL, AND ROUTE PIPE OVERFLOW DRAIN TO FLOOR DRAIN
3. ROUTE 4"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN. COORDINATE FINAL LOCATION WITH ARCHITECT.
4. ROUTE 6"Ø EXHAUST DUCT UP TO ROOF. TERMINATE WITH MANUFACTURER'S ROOF JACK. COORDINATE FINAL LOCATION WITH ARCHITECT.
5. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO ROOF CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

   NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
6. ROUTE 4"Ø DRYER EXHAUST DUCT UP TO ROOF, TERMINATE WITH MANUFACTURE'S ROOF JACK. COORDINATE FINAL LOCATION WITH ARCHITECT.
7. INSULATE ALL DUCTWORK ABOVE GARAGE PER SPEC. COORDINATE EXACT ROUTING WITH OTHER TRADES.
8. LINED TRANSFER DUCTWORK ROUTED IN ATTIC AND INSULATED PER SPECIFICATIONS.
9. 6"Ø MICROWAVE HOOD EXHAUST DUCT CONNECTION. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
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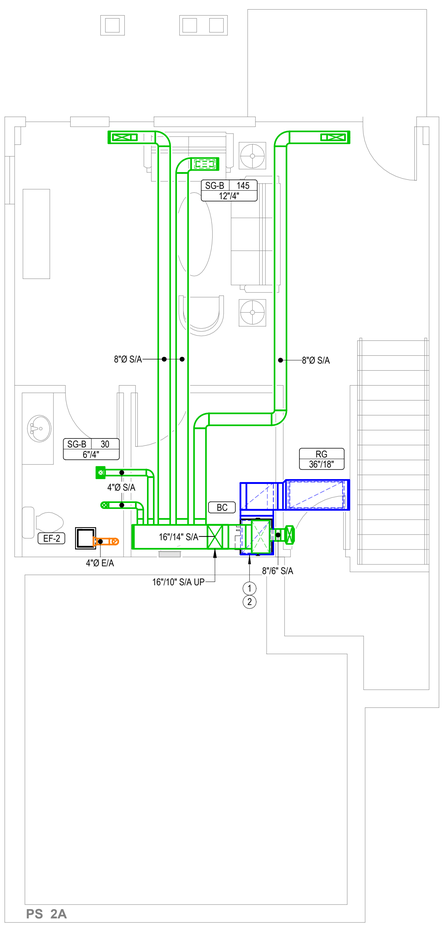
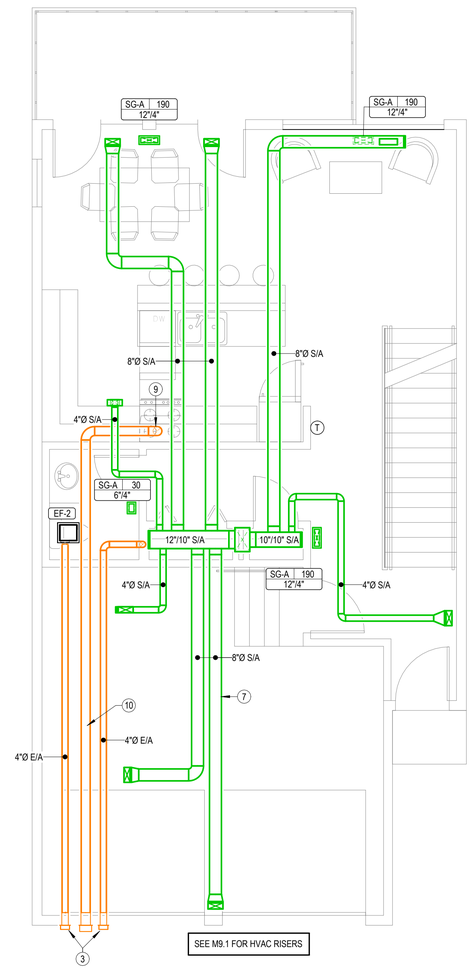


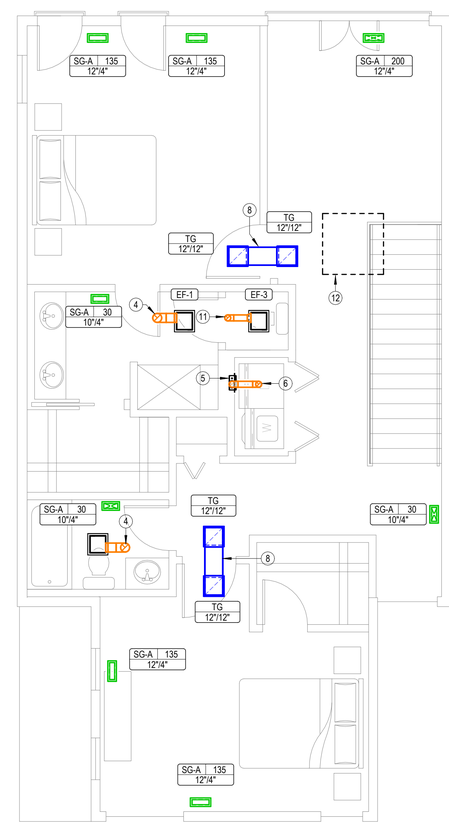
SEE M9.1 FOR HVAC RISERS

1 HVAC PLAN-BASEMENT-PARKSIDE-2A
1/4" = 1'-0"



SEE M9.1 FOR HVAC RISERS

2 HVAC PLAN-SECOND FLOOR-PARKSIDE-2A
1/4" = 1'-0"



SEE M9.1 FOR HVAC RISERS

3 HVAC PLAN-THIRD FLOOR-PARKSIDE-2A
1/4" = 1'-0"

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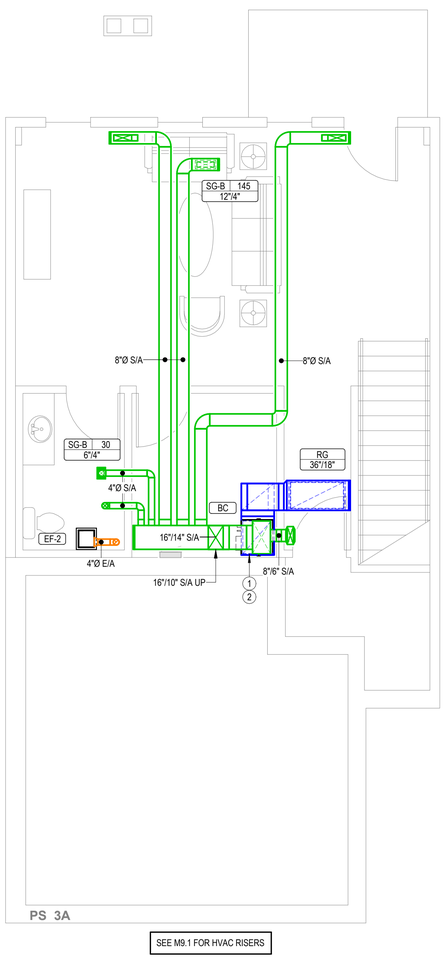
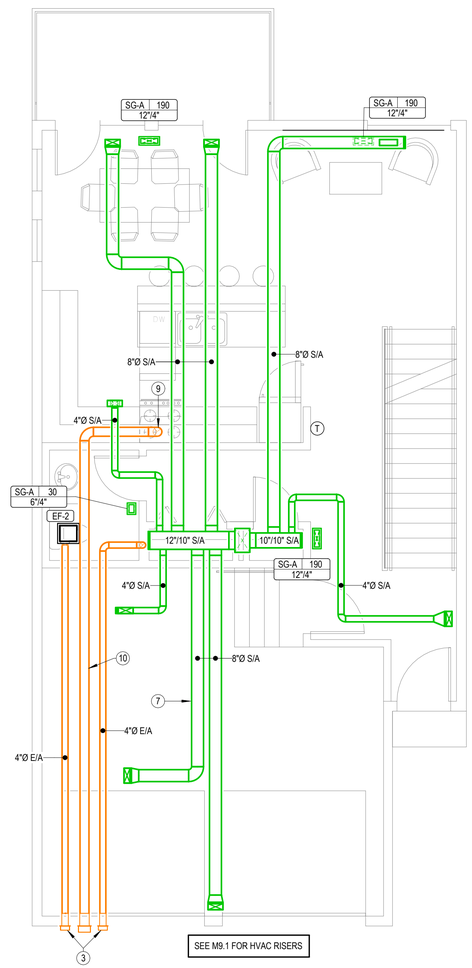


1 HVAC PLAN-BASEMENT-PARKSIDE-3A

1/4" = 1'-0"

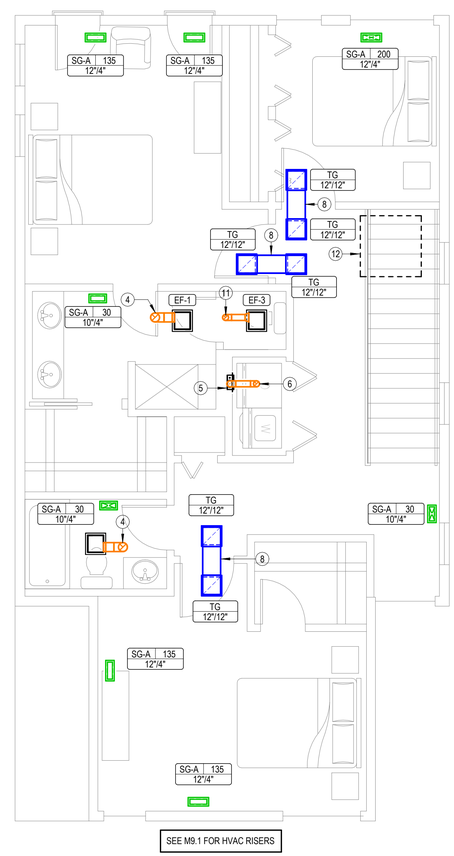
PARKSIDE - 3B (SIMILAR)



2 HVAC PLAN-SECOND FLOOR-PARKSIDE-3A

1/4" = 1'-0"

PARKSIDE - 3B (SIMILAR)



3 HVAC PLAN-THIRD FLOOR-PARKSIDE-3A

1/4" = 1'-0"

PARKSIDE - 3B (SIMILAR)

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REVISIONS:

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Project 25035 **08/12/2025**

CONDENSING UNIT SCHEDULE

NOTES:
1. REFRIGERANT LINES SHALL BE FIELD FABRICATED. COORDINATE LINE SIZING REQUIREMENTS WITH EQUIPMENT MANUFACTURER FOR LENGTH.

MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY	COOLING						ELECTRICAL			
				EDB	EDB	EWB	NET SENSIBLE	NET TOTAL	SEER2	PHASE	MCA	MOCP	VOLTAGE
CU-1	TRANE	5TTR3042	3.5 ton	105 °F	78 °F	63 °F	34,000 Btu/h	37,500 Btu/h	13.4	1	22.0 A	35.0 A	240 V
CU-2	TRANE	5TTR3060	5.0 ton	105 °F	78 °F	63 °F	43,300 Btu/h	49,800 Btu/h	13.4	1	30.0 A	50.0 A	240 V

BLOWER COIL SCHEDULE

NOTES:
1. SINGLE POINT CONNECTION REQUIRED, COORDINATE THE EXACT ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED WIH E.C.
2. ELECTRICAL HEATER SHALL NOT OPERATE SIMULTANEOUSLY WITH HEAT PUMP. ELECTRIC HEATER SHALL BE USED AS BACK-UP HEAT ONLY.
3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT COMPATIBLE WITH REQUIREMENTS OF 2021 IECC.
4. PROVIDE 2 SETS OF MERV-7 FILTERS.

MARK	MANUFACTURER	MODEL	FAN			ELECTRIC HEAT	ELECTRICAL			
			AIRFLOW	ESP	SPEED		VOLTAGE	PHASE	MCA	MOCP
BC	TRANE	5TEM6D07	1,600 CFM	0.50 in-wg	HIGH	9.6 kW	240 V	1	58.0 A	60.0 A

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

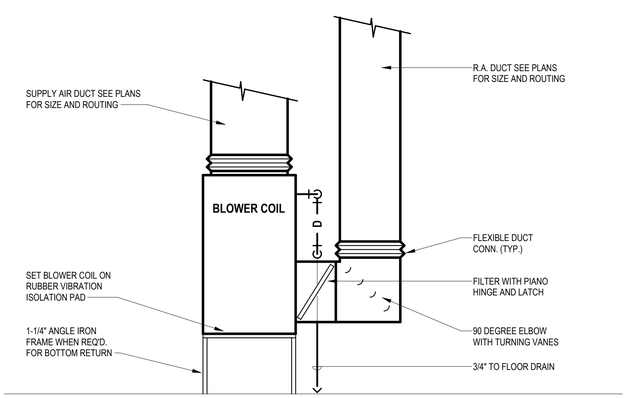
GENERAL NOTES:
1. PROVIDE MOUNTING FRAME AS REQUIRED FOR CEILING TYPE.
2. MAXIMUM NC SHALL BE 30.
3. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS NECK, U.N.O.
4. CEILING DEVICES SHALL HAVE ADJUSTABLE BLOW PATTERN, 4-WAY U.N.O
5. COORDINAT LOCATIONS OF ALL WALL DEVICES WITH ARCHITECT.

MARK	MANUFACTURER	MODEL	APPLICATION				MOUNTING	DAMPER	DESCRIPTION	NOTES
			SUPPLY	RETURN	EXAUST	TRANSFER				
RG	TITUS	350FL		■			SURFACE MOUNT	No	STEEL LOUVERED RETURN GRILLE.	
SG-A	TITUS	300R	■				SURFACE MOUNT	Yes	FLOOR MOUNTED STEEL, DOUBLE DEFLECTION SUPPLY GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION.	
SG-B	TITUS	300R	■				SURFACE MOUNT	Yes	CEILING MOUNTED STEEL, DOUBLE DEFLECTION SUPPLY GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION.	
TG	TITUS	350FL				■	SURFACE MOUNT	No	STEEL LOUVERED TRANSFER GRILLE.	

EXHAUST FAN SCHEDULE

NOTES:
1. FIXTURE SHALL BE ENERGY STAR LISTED.
2. FIXTURE SHALL OPERATE AT < 1 SONE.
3. PROVIDE WITH EC MOTOR WITH INTEGRAL DISCONNECT.
4. PROVIDE MANUFACTURER'S WALL CAP OR ROOF JACK, SEE PLANS.
5. PROVIDE INTEGRAL BACKDRAFT DAMPER.
6. PROVIDE WITH MANUFACTURER'S CEILING RADIATION DAMPER. OMIT RADIATION DAMPERS WHERE RATED CEILINGS ARE...
7. PROVIDE WITH MANUFACTURER'S LIGHT KIT.

Mark	Manufacturer	Model	CFM	ESP	Power	Electrical		Notes
						Voltage	Phase	
EF-1	PANASONIC	FV-0511VQ1	80 CFM	0.25 in-wg	11 W	120 V	1	1,2,3,4,5,6
EF-2	PANASONIC	FV-0511VQ1	50 CFM	0.25 in-wg	11 W	120 V	1	1,2,3,4,5,6
EF-3	PANASONIC	FV-0511VQL1	50 CFM	0.25 in-wg	11 W	120 V	1	1,2,3,4,5,6,7



1 **BLOWER COIL DETAIL**
NO SCALE

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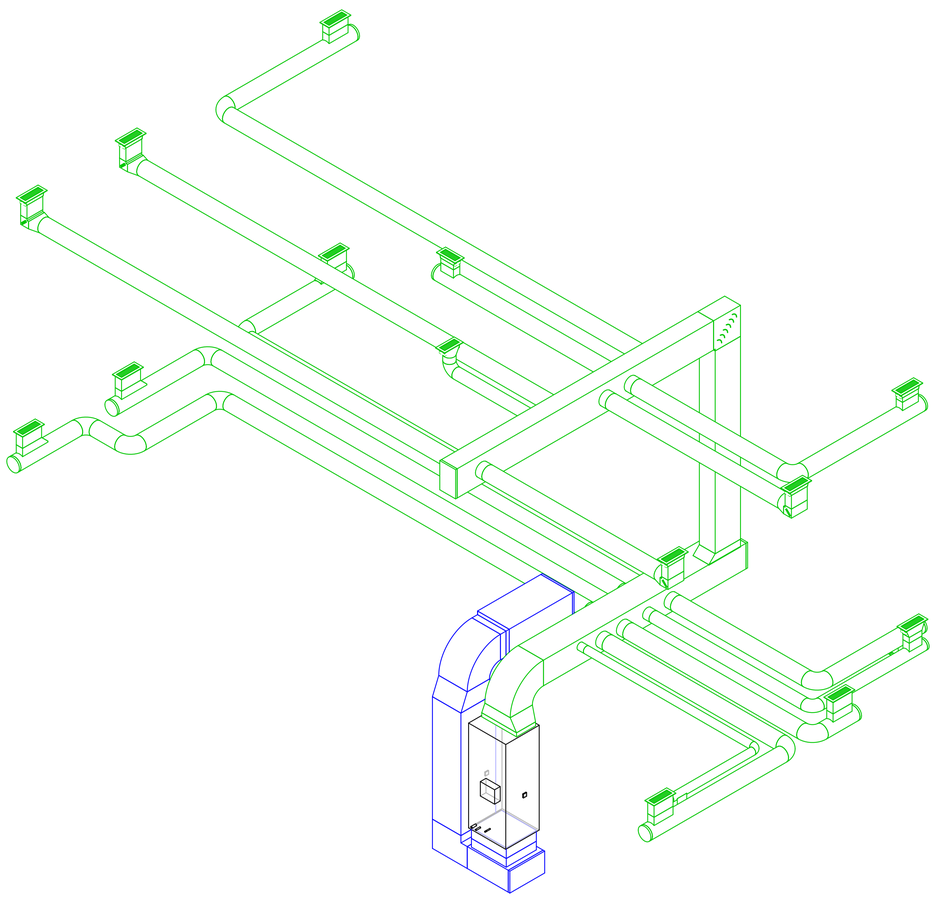
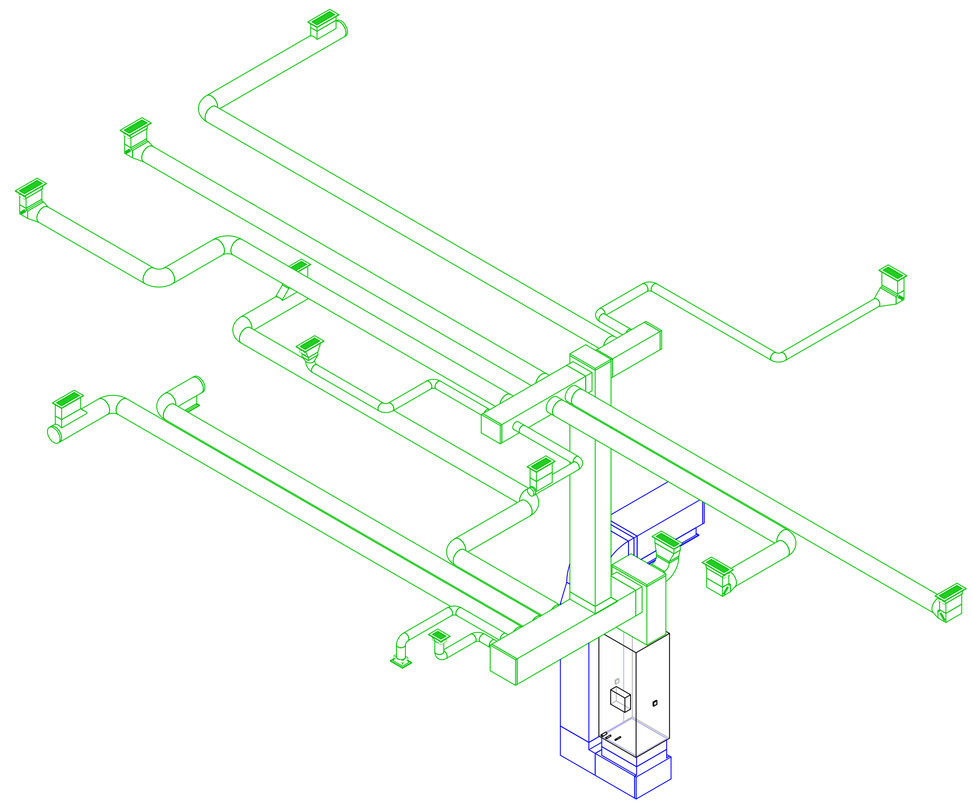


1 **HVAC DUCT RISER-CITYSIDE**



2 **HVAC DUCT RISER-PARKSIDE**

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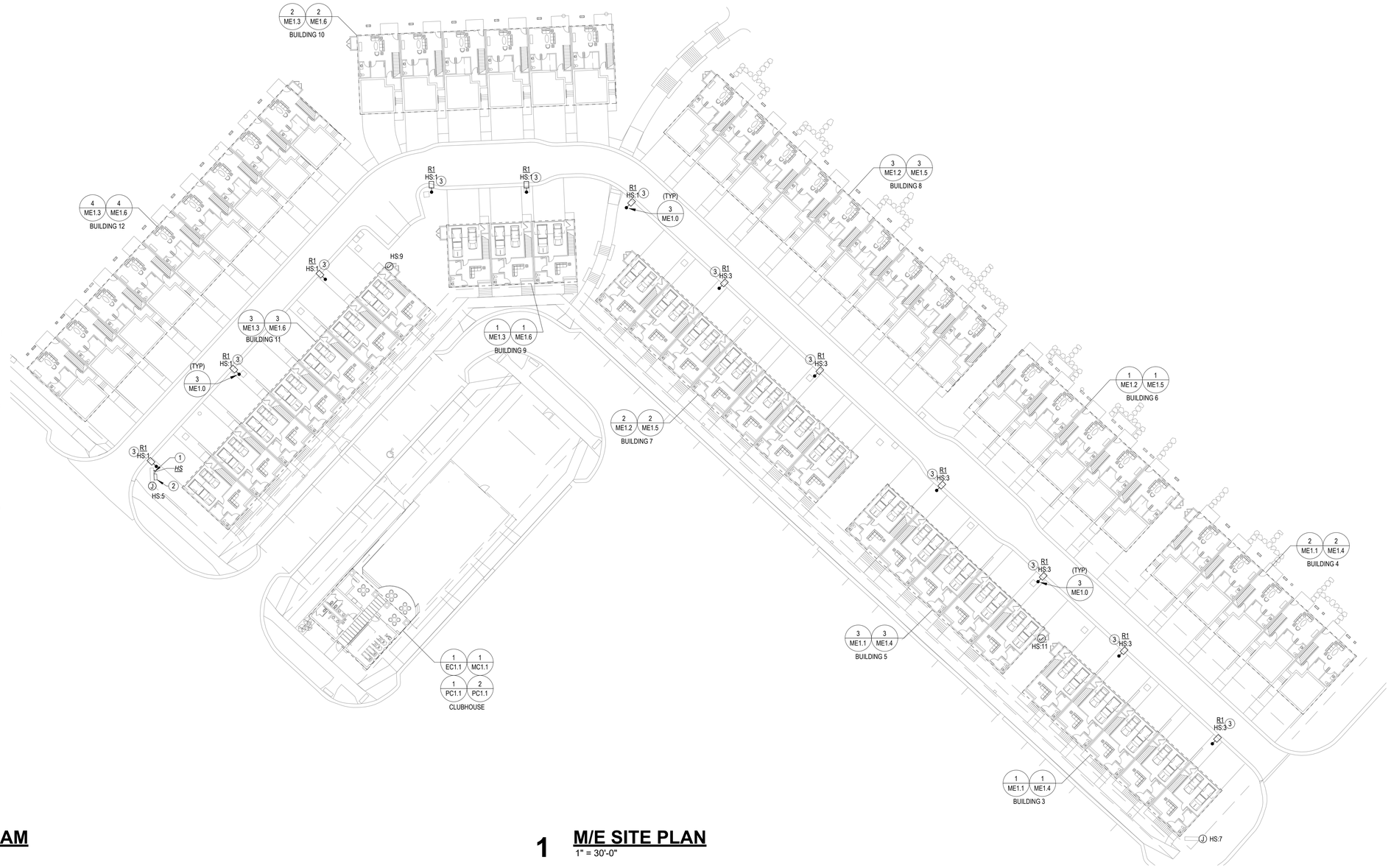
Project 25035 **08/12/2025**

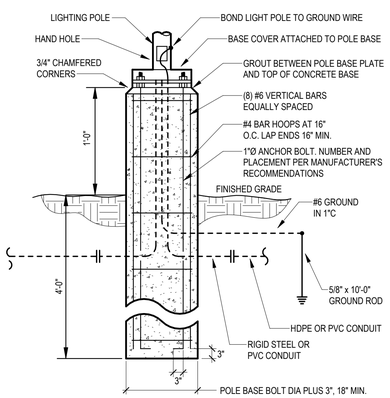
NOTE:
REFERENCE ENLARGED UNIT PLANS FOR WORK IN INDIVIDUAL UNITS:
- MECHANICAL (M4 SHEETS)
- PLUMBING (P4 SHEETS)
- ELECTRICAL (E4 SHEETS)

NOTES BY SYMBOL

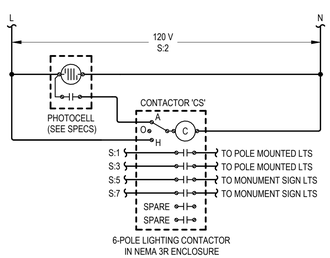
1. HOUSE ELECTRIC SERVICE EQUIPMENT. SEE RISER DIAGRAM ON SHEET E6.2.
2. STREET LIGHTING CONTROLS MOUNTED NEXT TO PANEL 'HS'. SEE DETAIL 2 THIS SHEET FOR MORE INFORMATION.
3. INSTALL LIGHT FIXTURES IN ACCORDANCE WITH CITY OF LENEXA REQUIREMENTS.



1 M/E SITE PLAN
1" = 30'-0"



3 LIGHT POLE BASE DETAIL
NO SCALE



2 LIGHTING CONTROL DIAGRAM
NO SCALE

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KANSAS
PROFESSIONAL ENGINEER
08-12-2025

REVISIONS:

DATE: 08/12/2025
JOB: 25-3489
SHEET NO.:

ME1.0

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NOTE:
REFERENCE ENLARGED UNIT PLANS FOR WORK IN INDIVIDUAL UNITS:
- MECHANICAL (M4 SHEETS)
- PLUMBING (P4 SHEETS)
- ELECTRICAL (E4 SHEETS)

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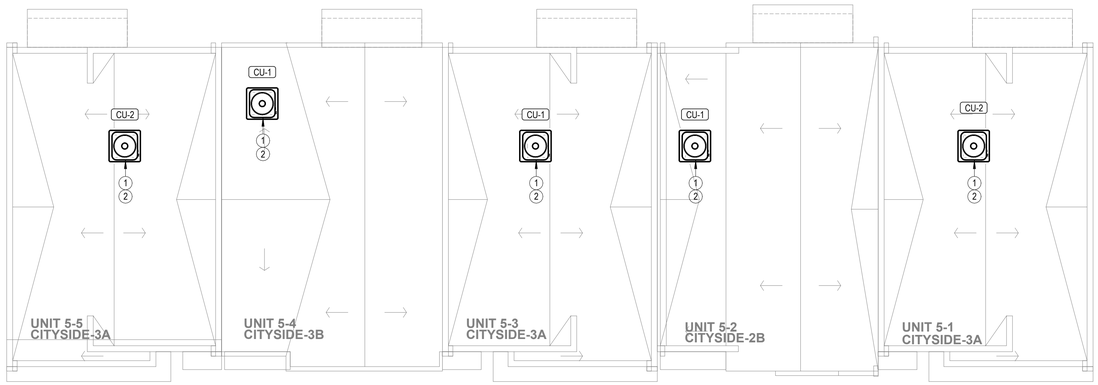
Project 25035

08/12/2025

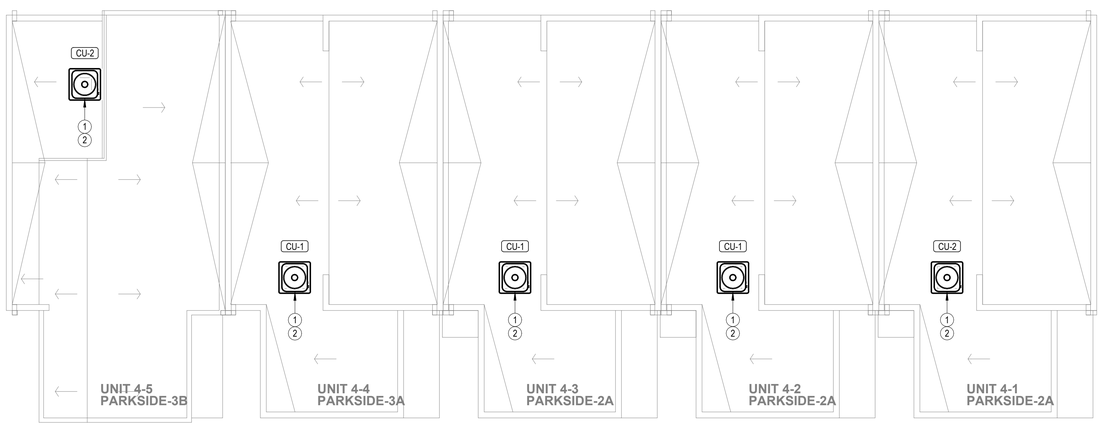
NOTES BY SYMBOL

1. MOUNT CONDENSING UNIT TO UNISTRUT FRAME SUPPORTED ON NVENT CADDY PYRAMID ROOF SUPPORTS. PROVIDE VIBRATION ISOLATORS BETWEEN ROOF SUPPORTS AND UNISTRUT FRAME. COORDINATE FINAL LOCATION WITH G.C.
2. ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO BLOWER COIL CONCEALED IN WALLS AND ABOVE CEILINGS. COORDINATE ROOF PENETRATION WITH G.C. AND SEAL WEATHERTIGHT. SEE M4 SHEETS FOR LOCATIONS OF BLOWER COILS.



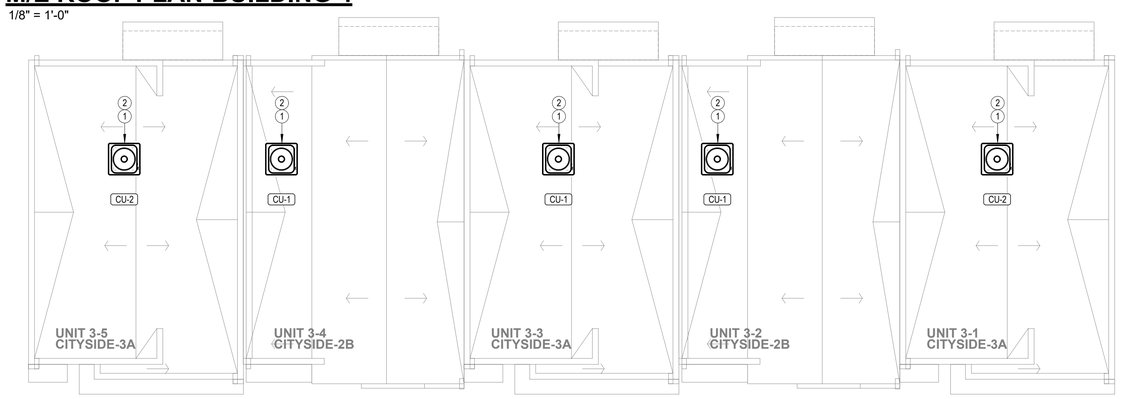
3 M/E ROOF PLAN-BUILDING 5

1/8" = 1'-0"



2 M/E ROOF PLAN-BUILDING 4

1/8" = 1'-0"



1 M/E ROOF PLAN-BUILDING 3

1/8" = 1'-0"

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LENEXA CITY CENTER_NORTH VILLAGE TOWNHOMES

NEW TOWNHOMES COMPLEX

LENEXA, KANSAS

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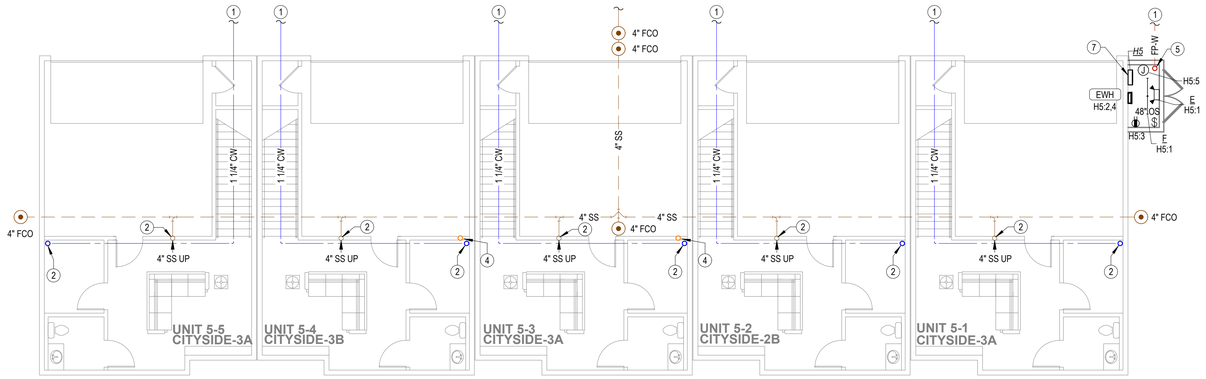
NOTES BY SYMBOL

1. SEE CIVIL PLANS FOR CONTINUATION.
2. SEE ENLARGED UNIT PLANS P4.1, AND P4.2 FOR CONTINUATION.
3. SEE ENLARGED UNIT PLANS P4.3 AND P4.4 FOR CONTINUATION.
4. INSTALL RADON PIPE. REFERENCE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
5. FIRE PROTECTION RISER, SIZE TO BE DETERMINED BY FIRE PROTECTION ENGINEER. INSTALL MAIN CONTROL VALVE IN ACCORDANCE WITH LOCALLY AMMENDED IFC SECTIONS 903.3.5.3 AND 903.3.5.3.1.
6. ELECTRIC SERVICE METER, SEE RISER DIAGRAM ON E6.2 FOR MORE INFORMATION.
7. ELECTRICAL PANEL FED FROM ADJACENT BUILDING. PROVIDE GROUND ROD AND #8 G.E.C. IN ACCORDANCE WITH NEC SECTION 250.32.



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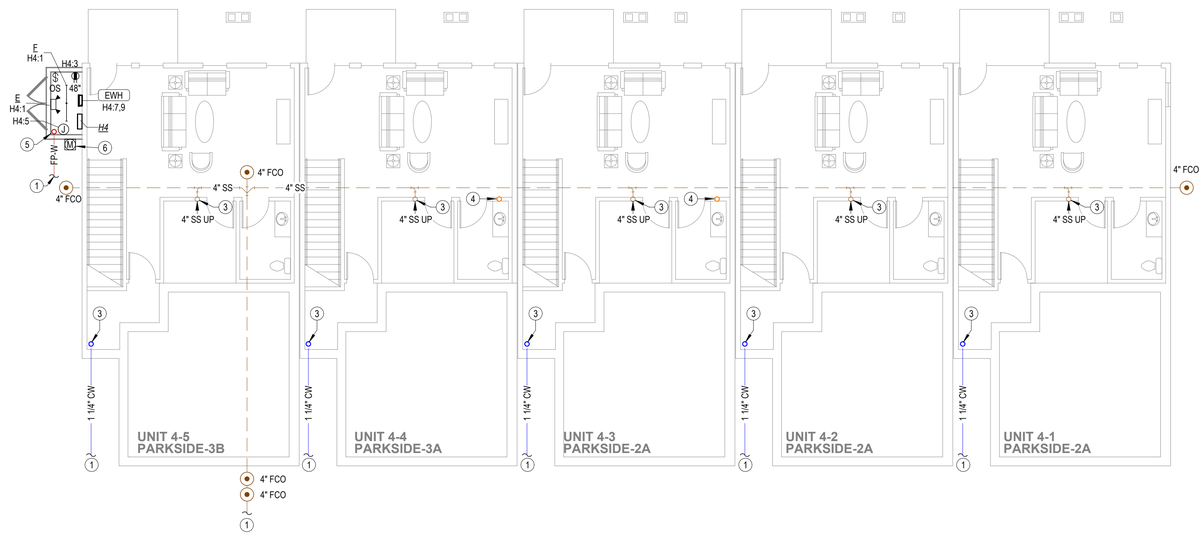

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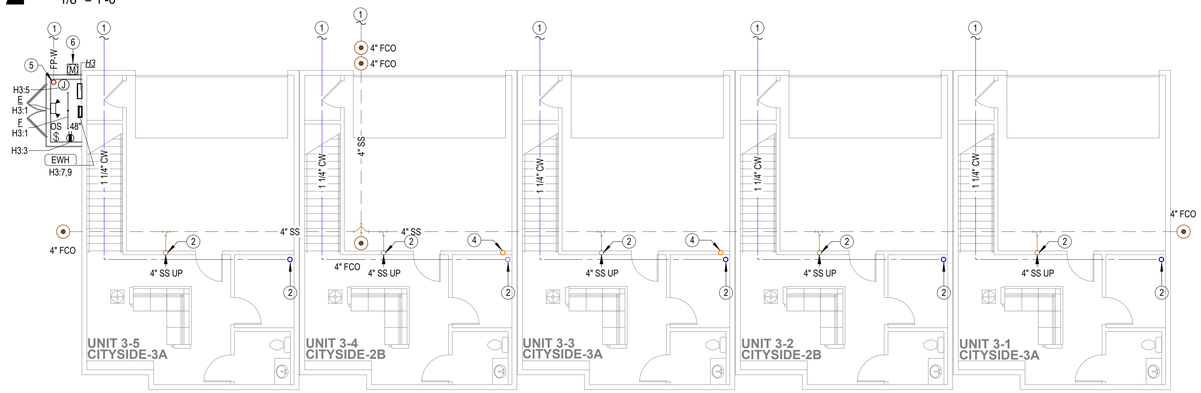

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Project 25035 **08/12/2025**

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet
- Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number (Room 1)
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	U/G	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols

2"	Nominal Pipe Size
	Above Ground Piping
	Below Ground Piping
1/8" / 12" SLOPE	Pipe Slope (When Applicable)
(E)	Existing Pipe To Remain
	Pipe To Be Demolished
CW	Domestic Cold-Water
NPW	Non-Potable Water
S-CW	Soft Cold-Water
F-CW	Filtered Cold-Water
RO	Reverse Osmosis Water
HW	Domestic Hot-Water
HW 140°	Domestic Hot-Water 140°
HW-R	Hot-Water Recirculation
HW-R 140°	Hot-Water Recirculation 140°
SS	Sanitary Drain
V	Sanitary Vent
WV	Sanitary Wet Vent
CWV	Combination DWV
CD	Condensate Drain
RD	Radon Mitigation
IR	Irrigation
ID	Indirect Drain
GW	Grease Waste
GV	Grease Vent
PD	Pump Discharge
SD	Storm Drain
OSD	Storm Overflow
CA	Compressed Air
G	Natural Gas
LP	Liquid Propane
	Pipe Rise / Drop

Pipe Accessory Notes

4" FCO	Cleanout
2" CHECK	Check Valve
2" BALANCE	Balancing Valve
2" CIRC	Circuit Setter
2" GATE	Gate Valve
2" S/O	Ball Valve
2" STRAIN	Fluid Strainer
S 1" GAS-CNTRL	Emergency Gas Shutoff
1" PLUG	Plug Valve
1" GAS COCK	Gas Shutoff Cock
1" REG	Gas Regulator
T/P 1" T/V	Thermostatic Valve
T/P TMV-XT/P	Mixing Valve
EM TMVEM	Emergency Mixer
2" PRV	Pressure Reducing Valve
W 2" METER	Water Meter
	Double Check Valve
	Reduced Pressure Zone

Plumbing Fixture Notes

Floor Drain	Design Size
0" FD	Identity Type
2 DFU	Drainage Fixture Units
2" FD	Floor Drain w/ Deep Seal Trap
2" FDP	Floor Drain w/ Trap Primer "P" Indicates Primer Connection
2" FD	Floor Drain w/ Integral Cleanout
6" AD-1	Area Drain (No Trap)
6" DD-1	Deck Drain
6" HD-1	Hub Drain (Funnel Type)
3" FS	Floor Sink
6" SD-1	Roof Drain
6" SD-1	Combination Drain
2000 SF	Rainfall Surface Area

Plumbing Sheet Index

P0.1	PLUMBING TITLE SHEET
P4.1	UNIT PLUMBING PLANS-CITYSIDE-2B
P4.2	UNIT PLUMBING PLANS-CITYSIDE-3A
P4.3	UNIT PLUMBING PLANS-PARKSIDE-2A
P4.4	UNIT PLUMBING PLANS-PARKSIDE-3A
P6.1	PLUMBING SCHEDULES
P9.1	CITYSIDE RISERS
P9.2	PARKSIDE RISERS

GENERAL PLUMBING NOTES

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
B. PITCH UNDERFLOOR SANITARY WASTE PIPING OVER 2" AT 1/8" PER FOOT, 2" AND SMALLER AT 1/4" PER FOOT.
C. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
D. ROUTE DOMESTIC WATER, AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
E. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
F. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
G. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL (OR UNIFORM, DEPENDING ON JURISDICTION) PLUMBING CODE AND INTERNATIONAL MECHANICAL CODE.
H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
I. LOCATE PIPING AND EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
J. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
K. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
L. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
M. TRANSITION FROM PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT.
N. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
O. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
P. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
Q. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT AND MATERIALS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
R. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
S. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

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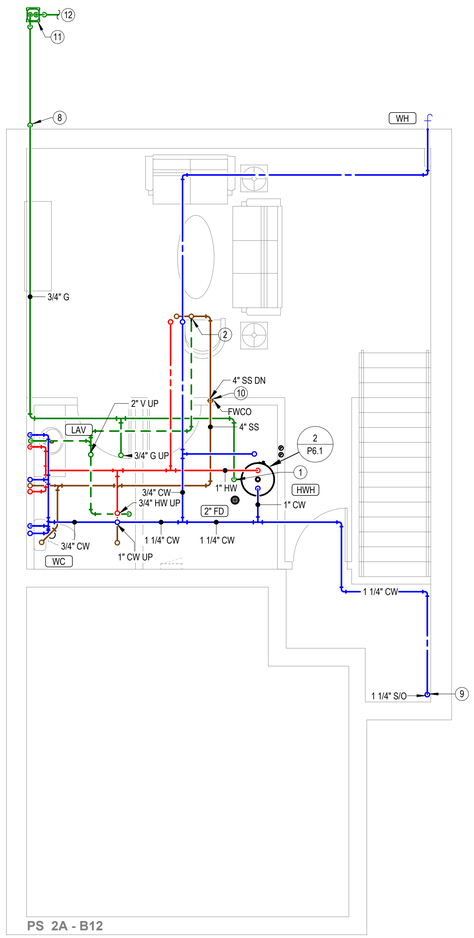
Project 25035 **08/12/2025**

GENERAL NOTE – FIRE SUPPRESSION SYSTEM REQUIREMENTS
A residential fire suppression system shall be designed and installed in accordance with NFPA 13D and all applicable local codes and ordinances. The system design shall be prepared and sealed by a licensed Fire Protection Engineer. Complete design documents, including hydraulic calculations, equipment specifications, and installation details, shall be submitted to the Authority Having Jurisdiction (AHJ) for review and approval prior to installation. Installation shall not commence until written approval is received from the AHJ.

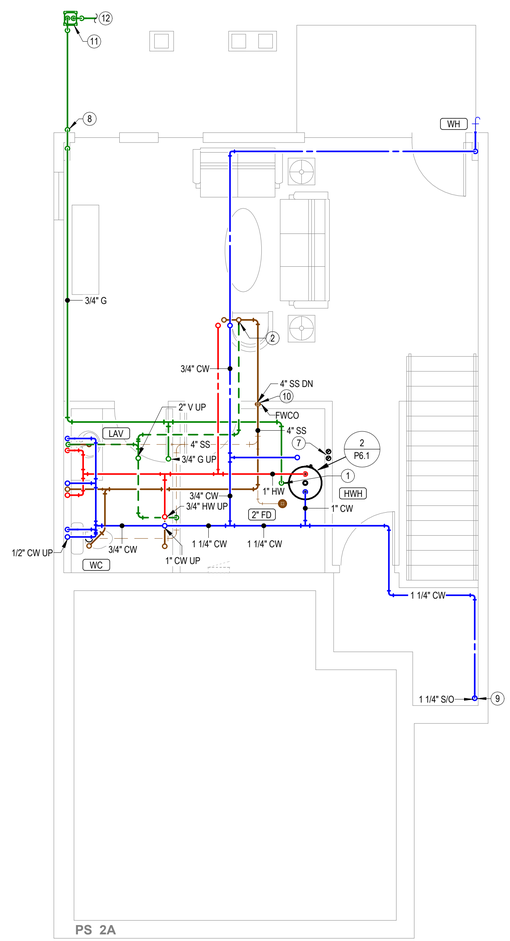
NOTES BY SYMBOL

1. ROUTE 3/4" GAS PIPE DOWN TO 'HWH'. PROVIDE SHUT OFF VALVE, UNION, AND MINIMUM 6" DIRT LEG.
2. 2" FOOT VENT LINE OFF CIRCUIT VENT.
3. CIRCUIT VENT IN PLUMBING WALL BEHIND SINK.
4. PROVIDE 3/4" GAS LINE WITH SHUT OFF VALVE, FOR CONNECTION TO RANGE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDER.
5. INSTALL PIPING ON CONDITIONED SIDE OF INSULATION ONTOP OF CEILING BELOW, AND INSULATE PER SPECIFICATIONS.
6. ROUTE WATER HEATER EXHAUST AND INTAKE PIPING UP TO ROOF, TERMINATE WITH CONCENTRIC VENT KIT. SEE 3:P6.1 FOR MORE INFORMATION
7. ROUTE 3" PVC EXHAUST AND INTAKE PIPE UP IN WALL.
8. ROUTE GAS PIPING BELOW GRADE FROM GAS METER AND PENETRATE EXTERIOR WALL 18" ABOVE FINISHED GRADE AND SEAL PENETRATION WEATHERTIGHT. COORDINATE WITH G.C.
9. SEE PLUMBING BUILDING PLANS P1.1 - P1.3 FOR CONTINUATION OF WATER SERVICE PIPING.
10. SEE PLUMBING BUILDING PLANS P1.1 - P1.3 FOR CONTINUATION OF SEWER PIPING AND COMMON SEWER MAIN ROUTING.
11. PROVIDE GAS METER, COORDINATE EXACT LOCATION WITH UTILITY AND CIVIL ENGINEER. TOTAL CONNECTED LOAD = 130 CFH @ 7" W.C. COORDINATE REQUIREMENTS WITH UTILITY AND PAY ALL FEES.
12. SEE CIVIL PLANS FOR CONTINUATION.



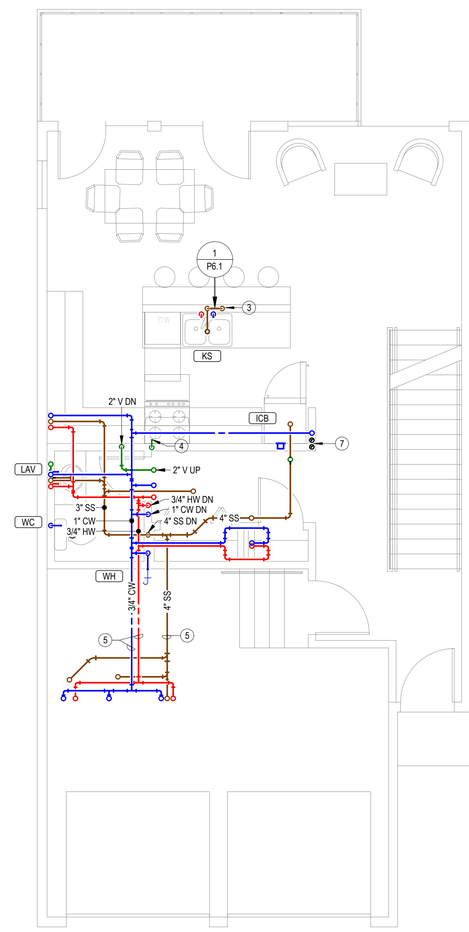
SEE P9.2 FOR PLUMBING RISERS

4 PLUMBING PLAN-BASEMENT-PARKSIDE-B12
1/4" = 1'-0"



SEE P9.2 FOR PLUMBING RISERS

1 PLUMBING PLAN-BASEMENT-PARKSIDE-2A
1/4" = 1'-0"



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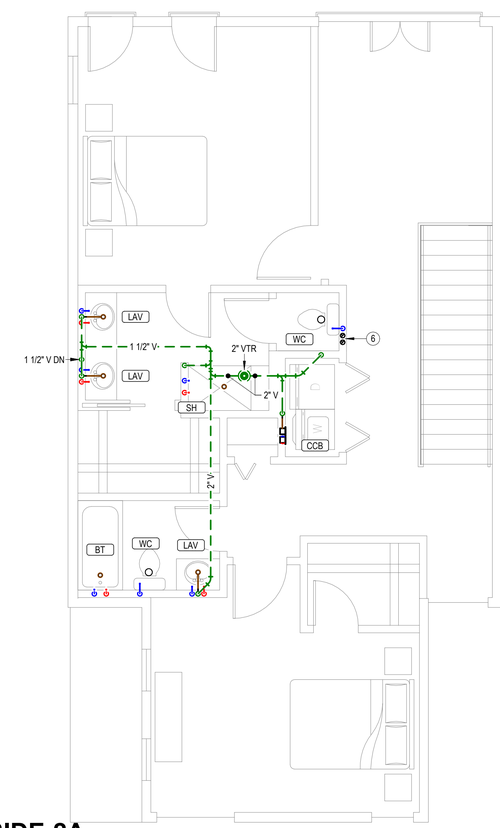
2 PLUMBING PLAN-SECOND FLOOR-PARKSIDE-2A
1/4" = 1'-0"



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3 PLUMBING PLAN-THIRD FLOOR-PARKSIDE-2A
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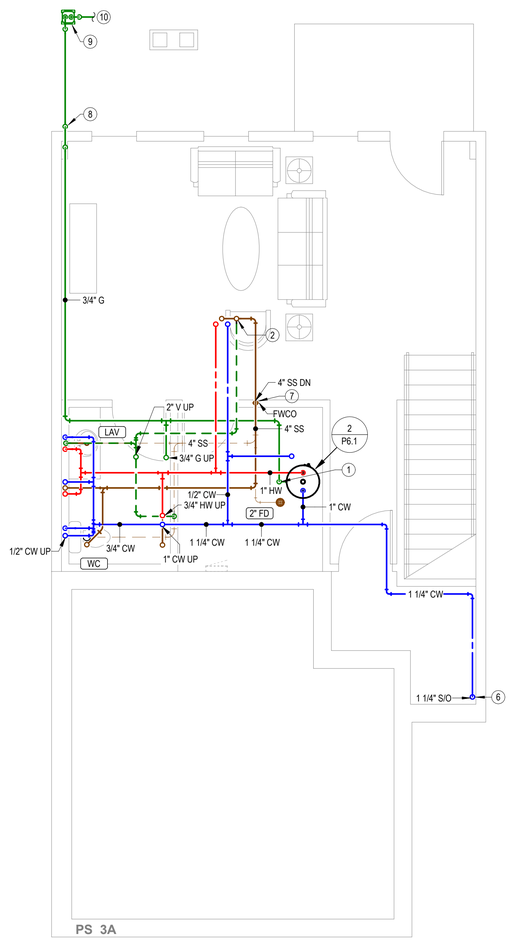
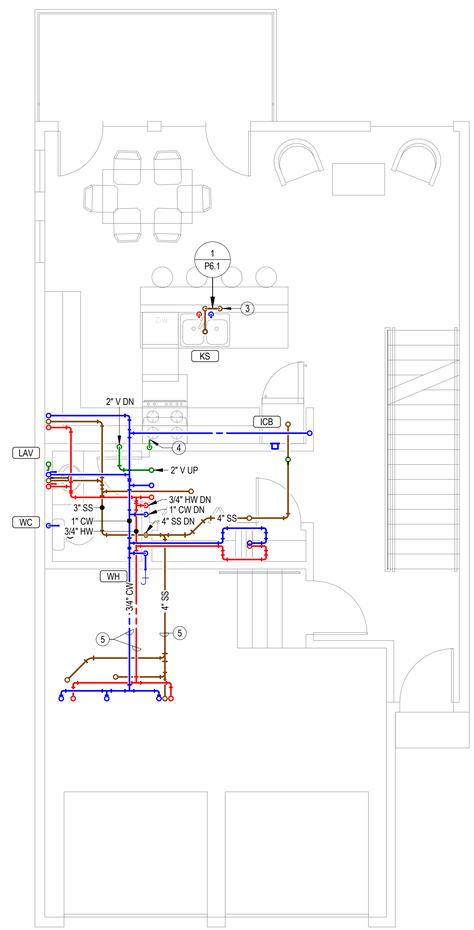
9. PROVIDE GAS METER, COORDINATE EXACT LOCATION WITH UTILITY AND CIVIL ENGINEER. TOTAL CONNECTED LOAD = 130 CFH @ 7" W.C. COORDINATE REQUIREMENTS WITH UTILITY AND PAY ALL FEES.
10. SEE CIVIL PLANS FOR CONTINUATION.



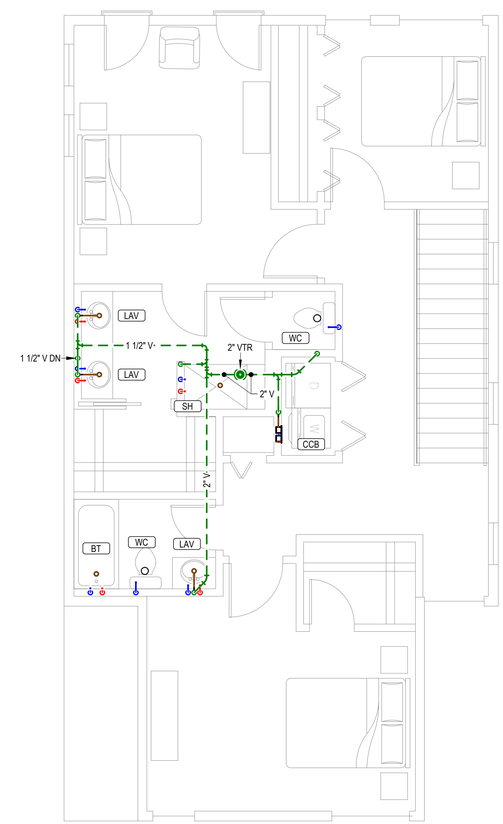
SEE P9.2 FOR PLUMBING RISERS

1 PLUMBING PLAN-BASEMENT-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)



SEE P9.2 FOR PLUMBING RISERS

2 PLUMBING PLAN-SECOND FLOOR-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)



SEE P9.2 FOR PLUMBING RISERS

3 PLUMBING PLAN-THIRD FLOOR-PARKSIDE-3A
1/4" = 1'-0"
PARKSIDE - 3B (SIMILAR)

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NEW TOWNHOMES COMPLEX
LENEXA, KANSAS

RYAN PATRICK LITTS LICENSED 24155 KANSAS PROFESSIONAL ENGINEER
08-12-2025

REVISIONS:

DATE: 08/12/2025
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Project 25035 08/12/2025

PLUMBING FIXTURE SCHEDULE

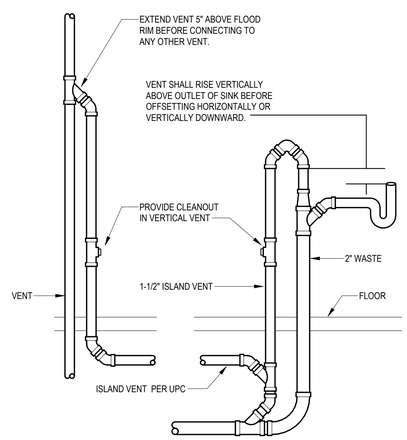
GENERAL:
- PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.
- VENT SISES ARE APPLICABLE ONLY FOR INDIVIDUAL FIXTURE VENTS WHERE ALTERNATE VENTING METHOD HAS NOT BEEN INDICATED ON PLANS.
- PROVIDE 1/4 TURN STOP VALVES ON ALL HOT AND COLD WATER SUPPLY LINE CONNECTIONS FOR FIXTURES. SHOWER VALVES SHALL HAVE INTEGRAL STOP VALVES.
- PROVIDE FLOOR DRAINS AND FLOOR SINKS WITH TRAP PRIMER OR TRAP PRIMER ALTERNATIVE EQUIVALENT TO PROVENT TRAP GUARD. PROVIDE AUTOMATIC TRAP PRIMER DEVICE WITH SINGLE OR MULTIPLE OUTLET PIPES AND ROUTE DRAINS TO PRIMER PORTS.

MARK	MODEL	PRODUCT DESCRIPTION	TRIM	ROUGH-IN SIZES			COLD	HOT	NOTES
				DRAIN	VENT	WATER			
BT	SELECTED BY OWNER	CAST ACRYLIC TUB/SHOWER, 60"W X34-3/8"D X75-7/8"H, WITH INTEGRAL SOAP/TOILETRY SHELVES AND GRAB BAR, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED, WHITE FINISH.	DELTA MODEL R10000-UNWS/T13H232 SINGLE HANDLE PRESSURE-BALANCING VALVE WITH METAL TUB FILLER WITH PULL DIVERTER, PUSH-CLEAN SHOWERHEAD AND POP-UP DRAIN WITH OVERFLOW.	2"	1 1/2"	1/2"	Yes	Yes	
CCB	SELECTED BY OWNER	RECESSED WASHING MACHINE BOX WITH 2"PVC/ABS DRAIN COUPLING AND KNOCKOUT TEST CAP. TWO 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS.		2"	1 1/2"	1/2"	Yes	Yes	
FD	SELECTED BY OWNER	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER.	TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAPGUARD	2"	2"				
ICB	SELECTED BY OWNER	FIRE RATED, ICE MAKER CONNECTION BOX WITH 1/4 TURN BALL VALVE AND INTEGRAL HAMMER ARRESTOR.		0"	0"	1/2"	Yes	No	
KS	SELECTED BY OWNER	TWO COMPARTMENT 18 GA STAINLESS STEEL SINK, SELF RIMMING, (2) 12"X12"X6-3/8"D BOWLS, FULLY UNDERCOATED, FAUCET HOLES AS REQ.	DELTA MODEL 400-HDF SINGLE HANDLE KITCHEN SINK FAUCET WITH HOSE SPRAY ATTACHMENT. CHROME FINISH. PROVIDE BASKET STRAINER.	2"	1 1/2"	1/2"	Yes	Yes	
LAV	SELECTED BY OWNER	SELF-RIMMING LAVATORY, WHITE VITREOUS CHINA, 20"W X 17", FAUCET HOLES ON 4" CENTERS.	DELTA MODEL 22C151 SINGLE HANDLE FAUCET. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.	2"	1 1/2"	1/2"	Yes	Yes	
SH	SELECTED BY OWNER	TRIM ONLY	DELTA MODEL R10000-UNWS/T13H232 SINGLE HANDLE PRESSURE-BALANCING VALVE WITH METAL TUB FILLER WITH PULL DIVERTER, PUSH-CLEAN SHOWERHEAD AND POP-UP DRAIN WITH OVERFLOW.	2"	1 1/2"	1/2"	Yes	Yes	
WC	SELECTED BY OWNER	FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 15" HIGH BOWL.	WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT	4"	2"	1/2"	Yes	No	
WH	SELECTED BY OWNER	AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH ASSE 1011 VACUUM BREAKER, METAL HANDLE.				3/4"	Yes	No	

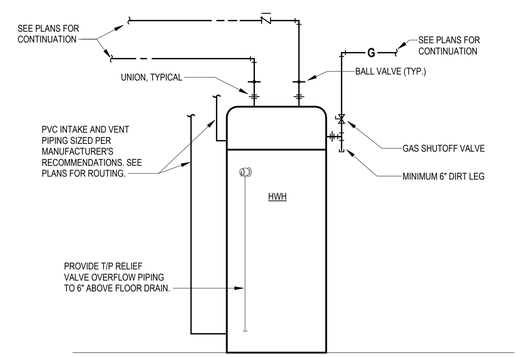
DOMESTIC WATER EQUIPMENT SCHEDULE

GENERAL:
- PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.

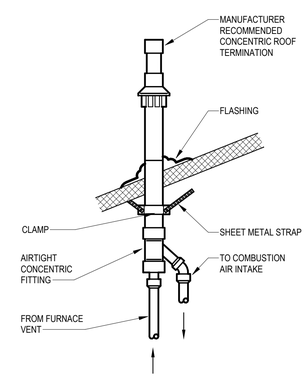
MARK	MANUFACTURER	MODEL	DESCRIPTION	NOTES
HWH	BRADFORD WHITE	RG2PDV50H6N	50 GALLON, 0.68 UEF, POWER DIRECT VENT, 60,000 BTUH INPUT, 65 GPH RECOVERY @90°F TEMP RISE. SUPPLIED WITH TEMPERATURE & PRESSURE RELIEF VALVE AND BRASS DRAIN VALVE. PROVIDE WITH MANUFACTURER'S CONCENTRIC VENT KIT.	



1 **ISLAND VENT DETAIL**
NO SCALE



2 **WATER HEATER PIPING DIAGRAM**
NO SCALE



3 **PVC ROOF VENT DETAIL**
NO SCALE

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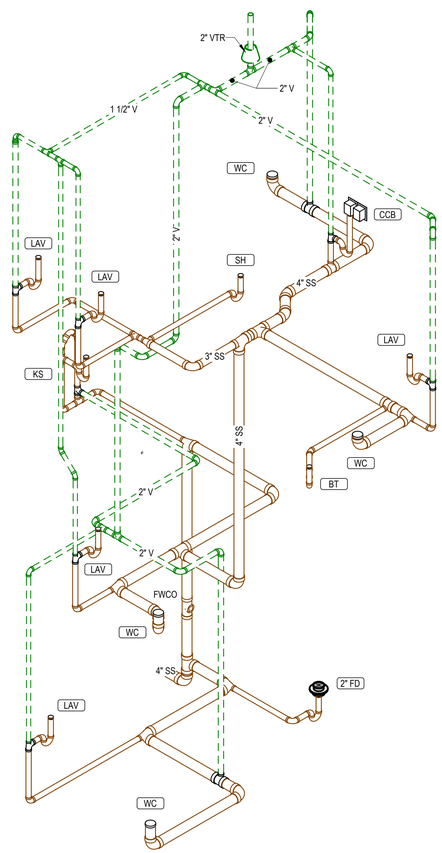
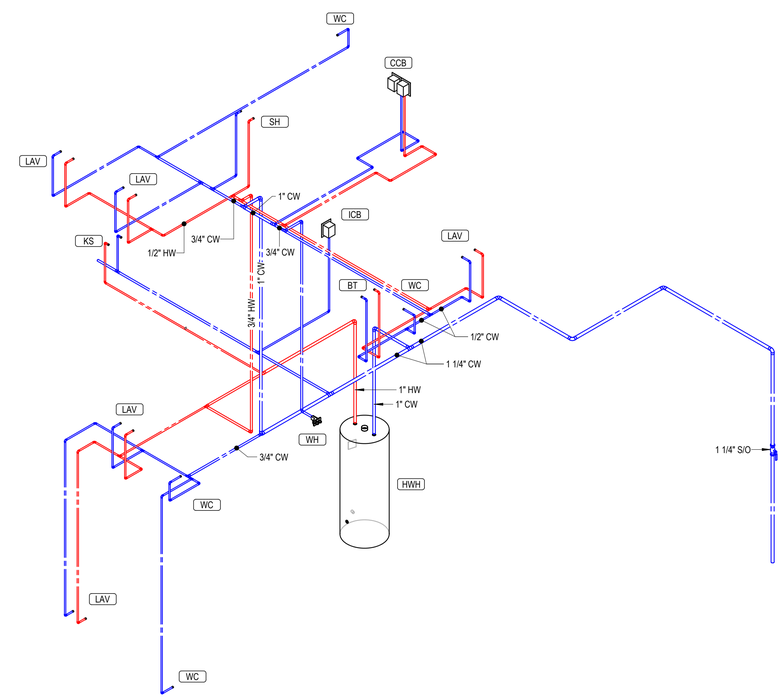


1 **WASTE AND VENT RISER-PARKSIDE**



2 **DOMESTIC WATER RISER-PARKSIDE**

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