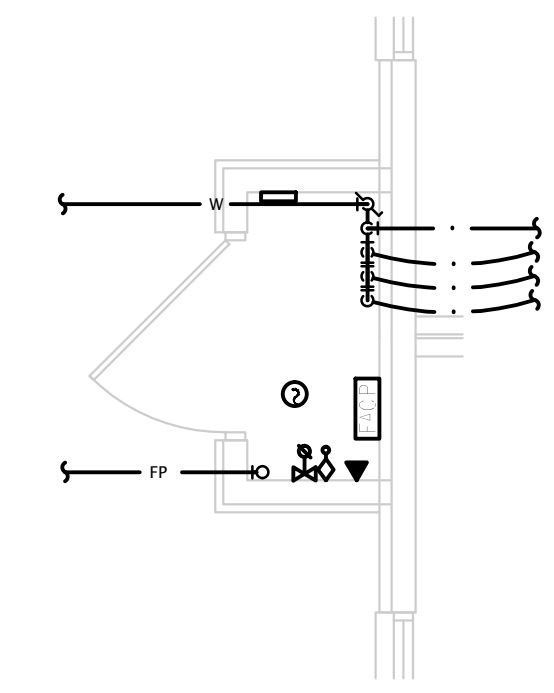


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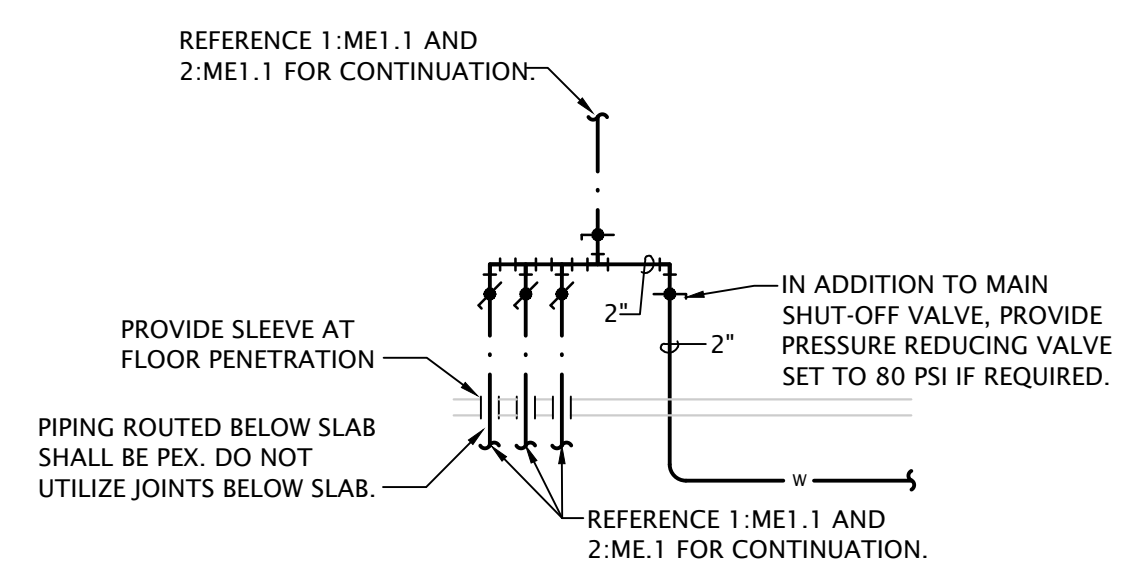
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M/E PLAN NOTES BY SYMBOL

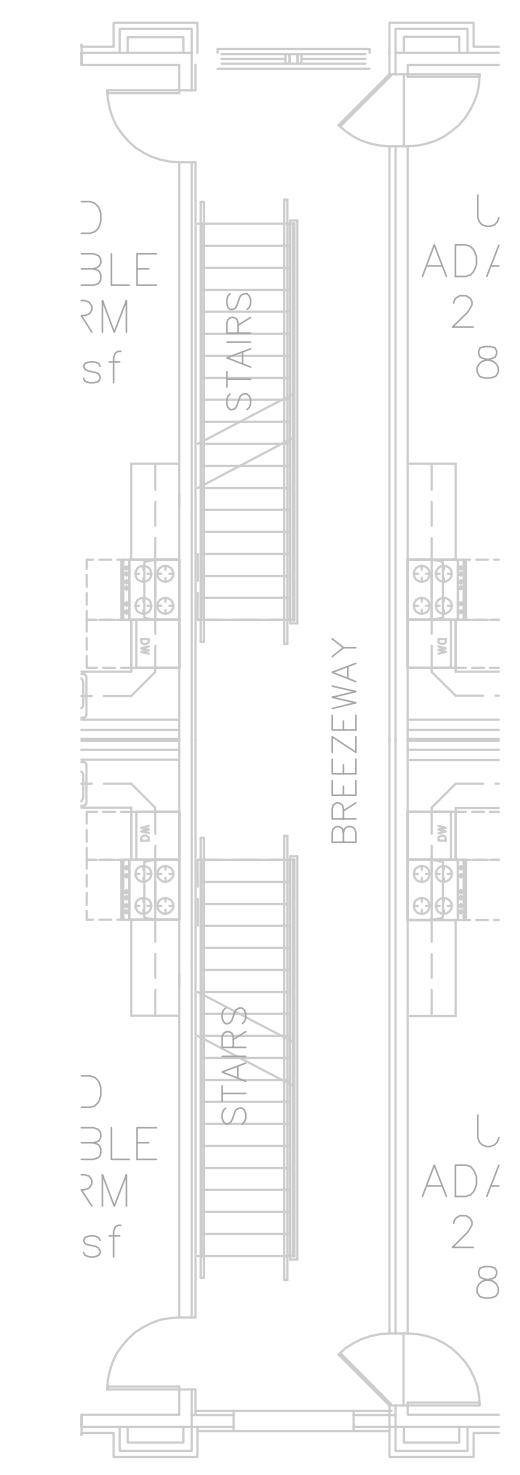
- 1. XXX
- 2. XXX
- 3. XXX



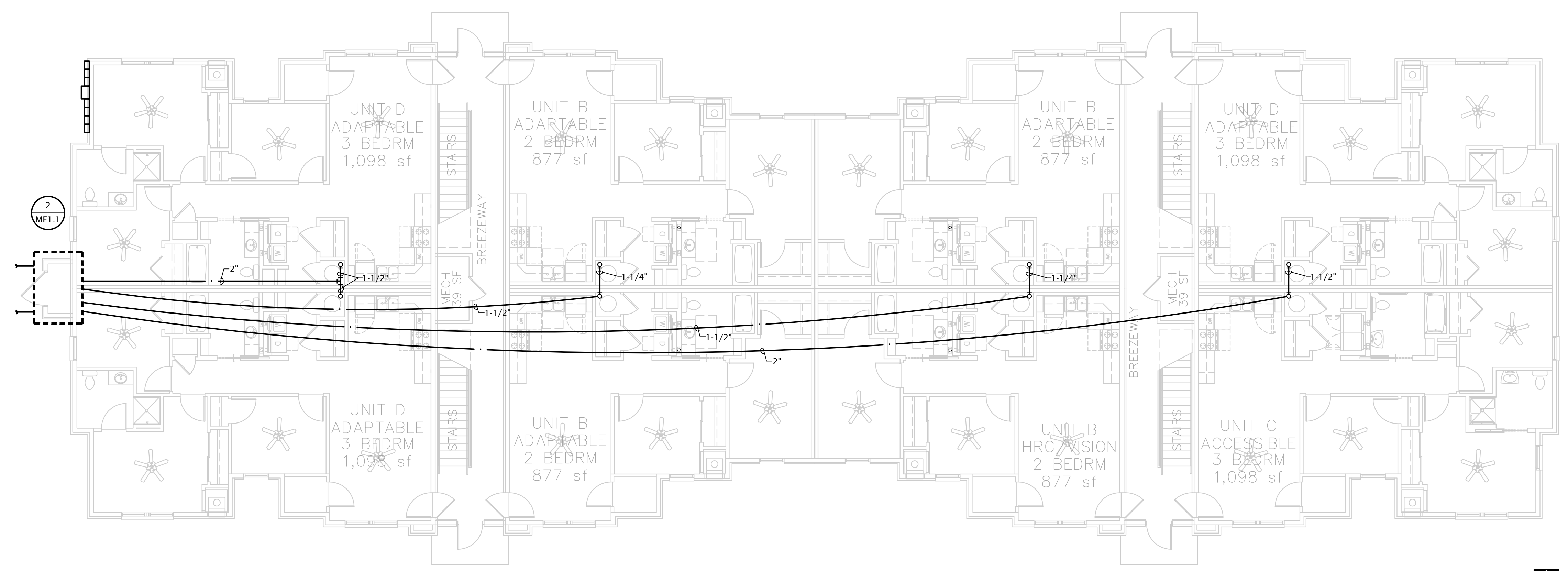
2 BUILDING - B WATER RISER CLOSET
 1/4" = 1'-0"



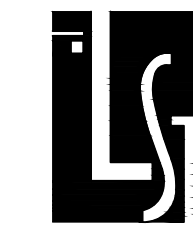
3 BUILDING - B WATER SERVICE RISER
 NO SCALE



4 UPPER FLOOR BREEZEWAY PLAN
 1/8" = 1'-0" (3RD FLOOR SIMILAR)



1 BUILDING B - M/E PLAN
 1/8" = 1'-0"



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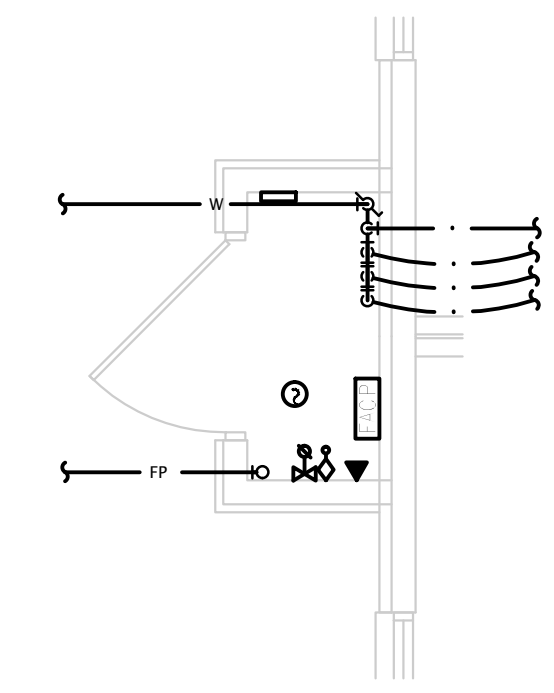
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ME1.2

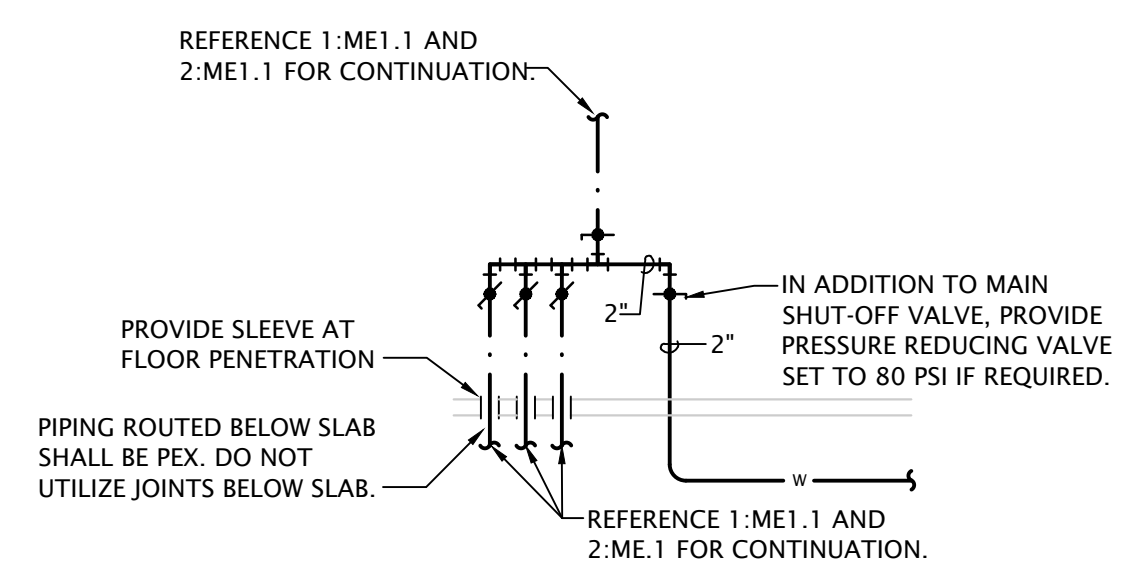
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M/E PLAN NOTES BY SYMBOL

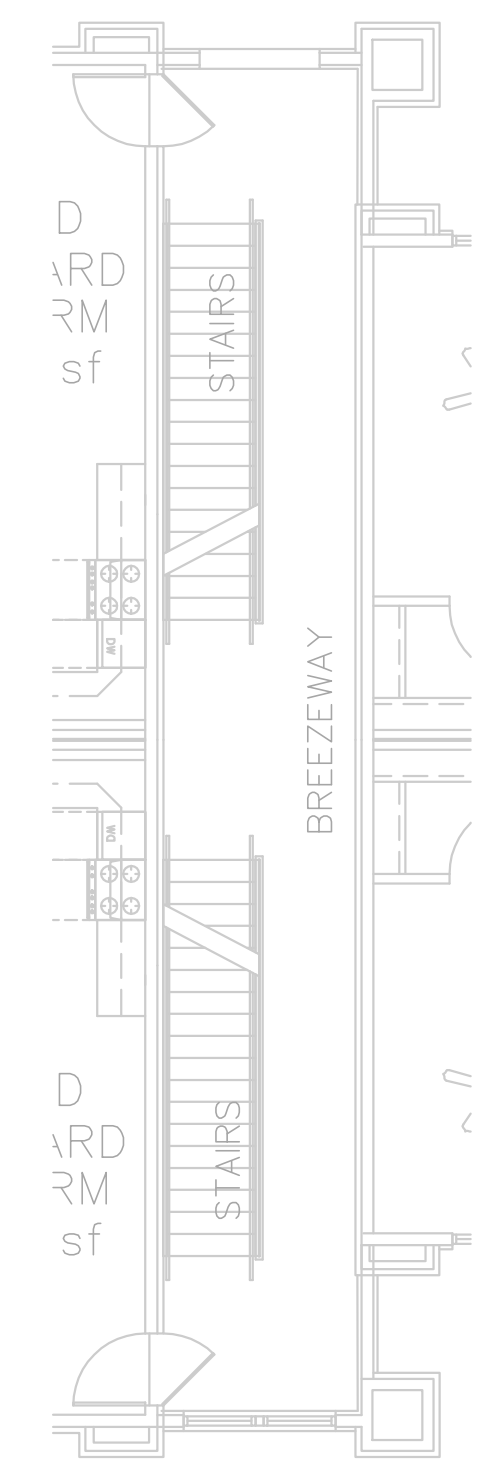
- 1. XXX
- 2. XXX
- 3. XXX



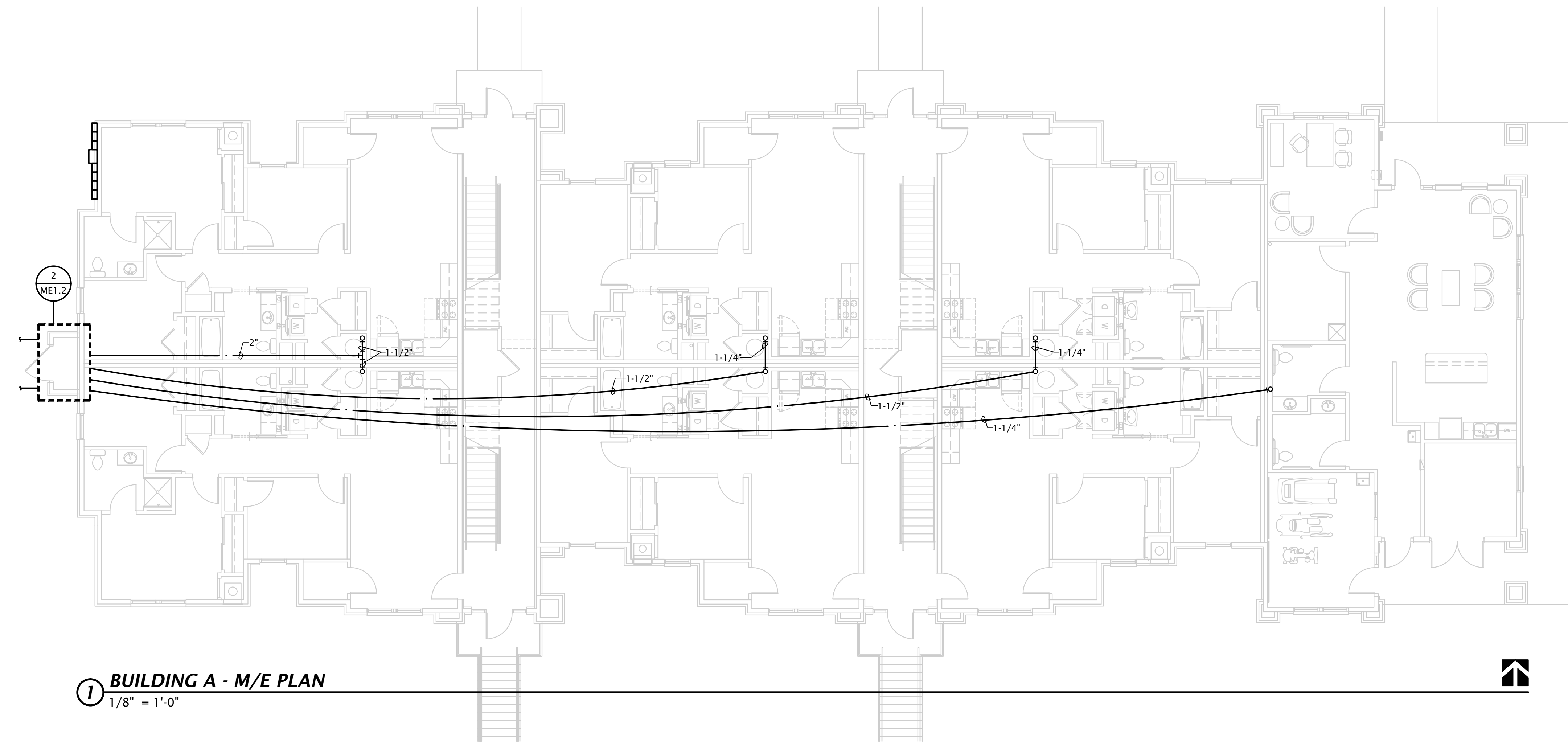
2 BUILDING - A WATER RISER CLOSET
 1/4" = 1'-0"



3 BUILDING - A WATER SERVICE RISER
 NO SCALE



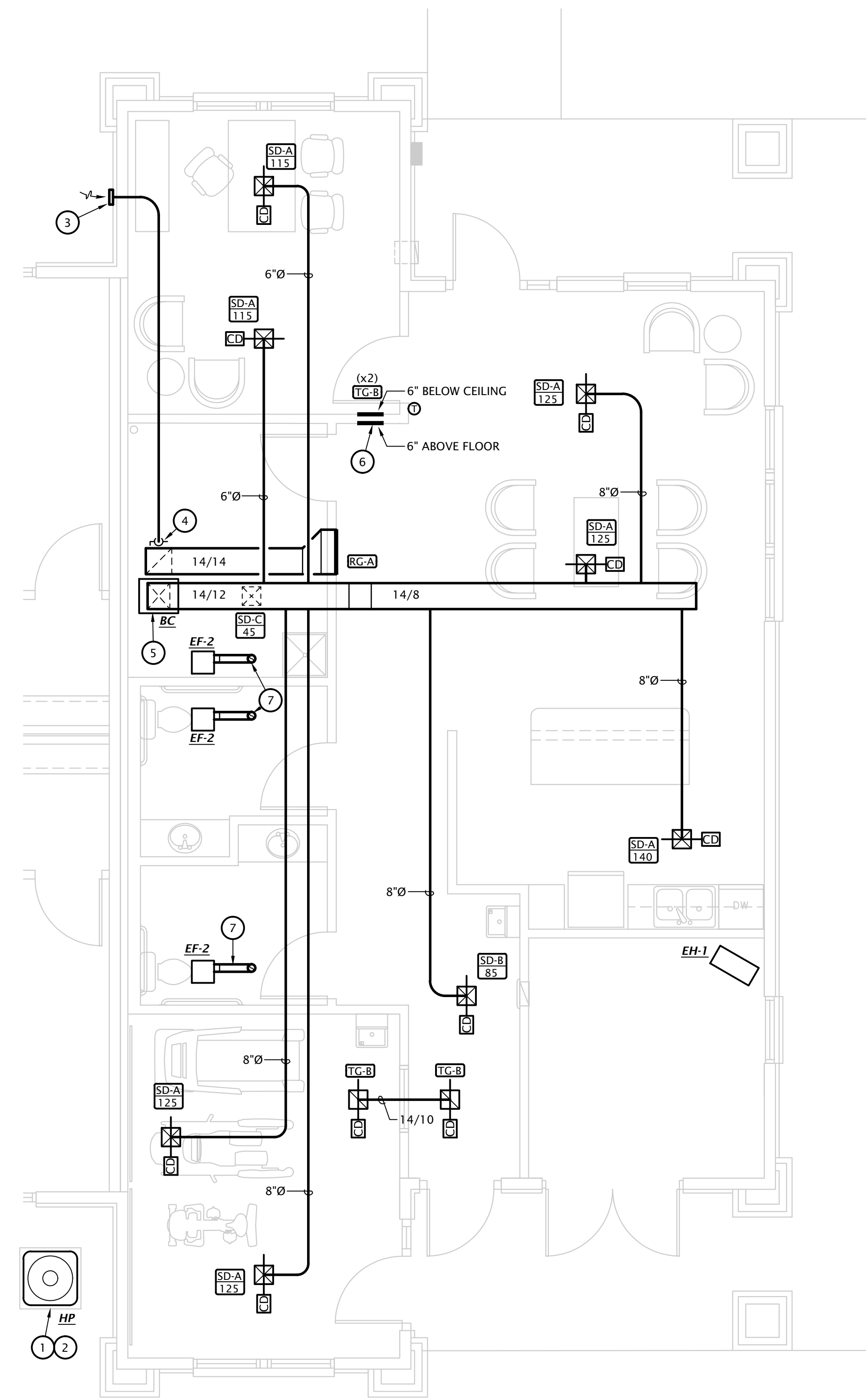
4 UPPER FLOOR BREEZEWAY PLAN
 1/8" = 1'-0" (3RD FLOOR SIMILAR)



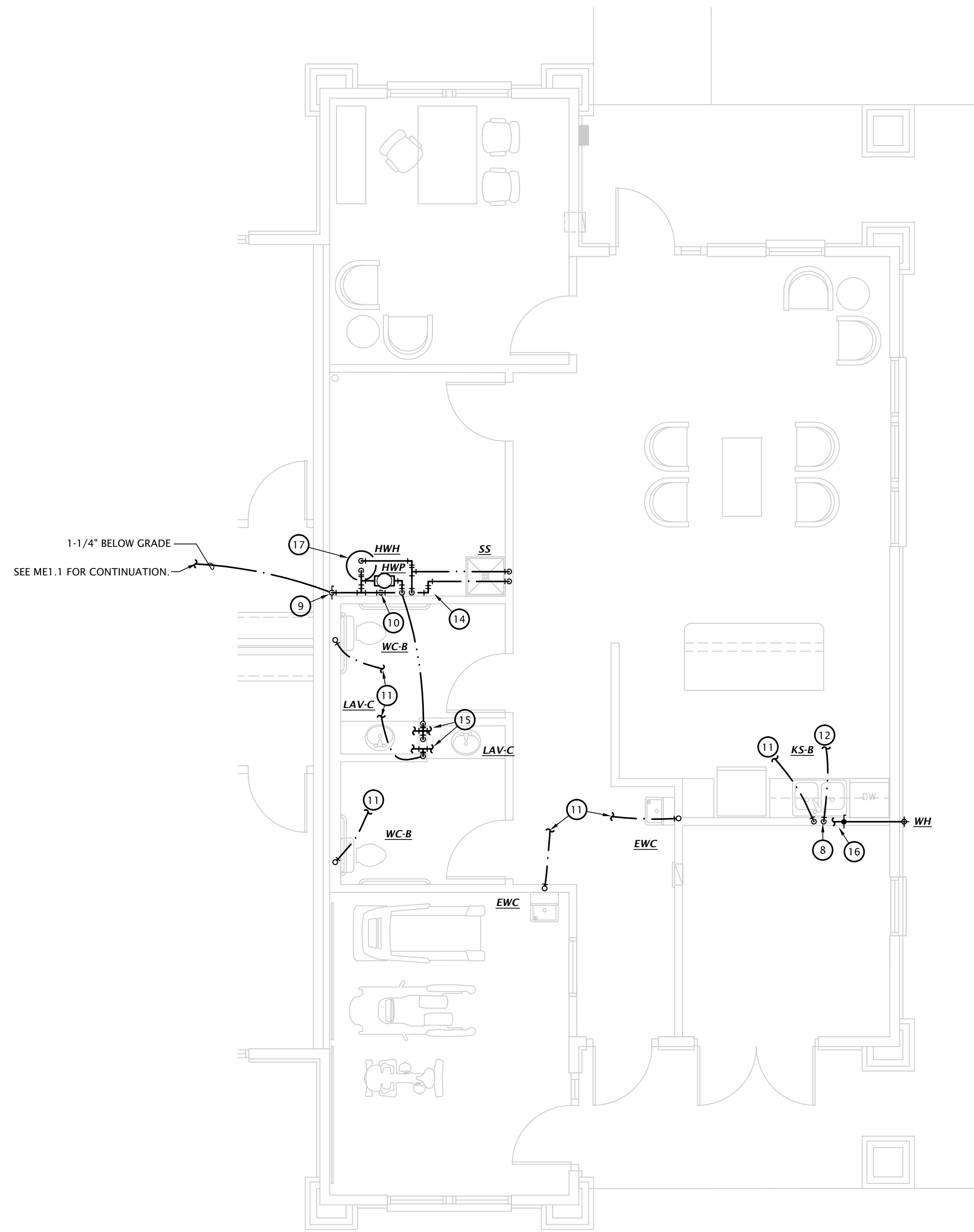
1 BUILDING A - M/E PLAN
 1/8" = 1'-0"

MECHANICAL PLAN NOTES BY SYMBOL

1. MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION WITH OWNER.
2. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING BLOWER COIL. PENETRATE WALL 18" ABOVE GRADE AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. COORDINATE LINE SIZE WITH MANUFACTURER.
3. ROUTE 8" Ø OUTDOOR AIR INTAKE DUCTWORK TO WALL CAP WITH BIRDSCREEN.
4. CONNECT OUTDOOR AIR DUCTWORK TO RETURN DUCT AND BALANCE TO 160 CFM.
5. EXTEND CONDENSATE DRAIN FROM BLOWER COIL TO FLOOR DRAIN. INSTALL DRAIN LINES WITH UNION AND P-TRAP AT UNIT. TERMINATE PIPING WITH AIR GAP BETWEEN END OF PIPE AND DRAIN RECEIVER.
6. LINE TRANSFER AIR PATH WITH SHEET METAL INSIDE STUD CAVITY.
7. ROUTE 4" EXHAUST DUCT TO MANUFACTURERS ROOF JACK WITH BACK-DRAFT DAMPER AND BIRD SCREEN.
8. PROVIDED VALVED 1/2" HOT WATER BRANCH FROM KITCHEN SINK AND CONNECT DISHWASHER.
9. PROVIDE SHUT-OFF VALVE IN RISER.
10. PROVIDE 1-1/4" COPPER COLD WATER MANIFOLD WITH BRASS BALL VALVES AT EACH BRANCH. PROVIDE PEX PIPING FROM MANIFOLD BELOW SLAB TO EACH FIXTURE AS INDICATED ON PLANS. SEE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL SIZING INFORMATION.
11. ROUTE CW BRANCH BELOW GRADE TO MANIFOLD AT MECH CLOSET. PIPING BELOW GRADE SHALL BE PEX WITH NO FITTINGS LOCATED BELOW SLAB. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PIPE SIZING UNLESS OTHERWISE NOTED.
12. ROUTE 1" HW PIPING BELOW GRADE TO MANIFOLD. PIPING BELOW GRADE SHALL BE PEX WITH NO FITTINGS LOCATED BELOW SLAB.
13. 1/2" PEX HOT WATER RECALCULATION LINE BELOW SLAB TO HWP. PROVIDE 1/2" SHUT OFF VALVE PRIOR TO CONNECTION TO HWP.
14. PROVIDE 3/4" COPPER HOT WATER MANIFOLD WITH BRASS BALL VALVES AT EACH BRANCH. PROVIDE PEX PIPING FROM MANIFOLD BELOW SLAB TO EACH FIXTURE AS INDICATED ON PLANS. SEE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL SIZING INFORMATION.
15. ROUTE 1/2" HW AND CW BRANCHES UP IN WALL AND PROVIDE FIXTURE BRANCHES BELOW COUNTER ALONG WALL TO FIXTURE. COORDINATE EXACT ROUTING WITH G.C.
16. PROVIDE VALVED 1/2" CW BRANCH FROM KITCHEN SINK ROUGH-IN AND ROUTE LOW IN WALL TO WALL HYDRANT. PROVIDE ACCESS PANEL IN CABINET TO SHUT-OFF VALVE.
17. CONNECT 1" HW AND CW TO 'HWH' SEE DETAIL 1.P6.1 FOR ADDITIONAL INFO.
- 18.



1 CLUBHOUSE HVAC PLAN
 1/4" = 1'-0"



2 CLUBHOUSE DOMESTIC WATER PLAN
 1/4" = 1'-0"

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ME1.3

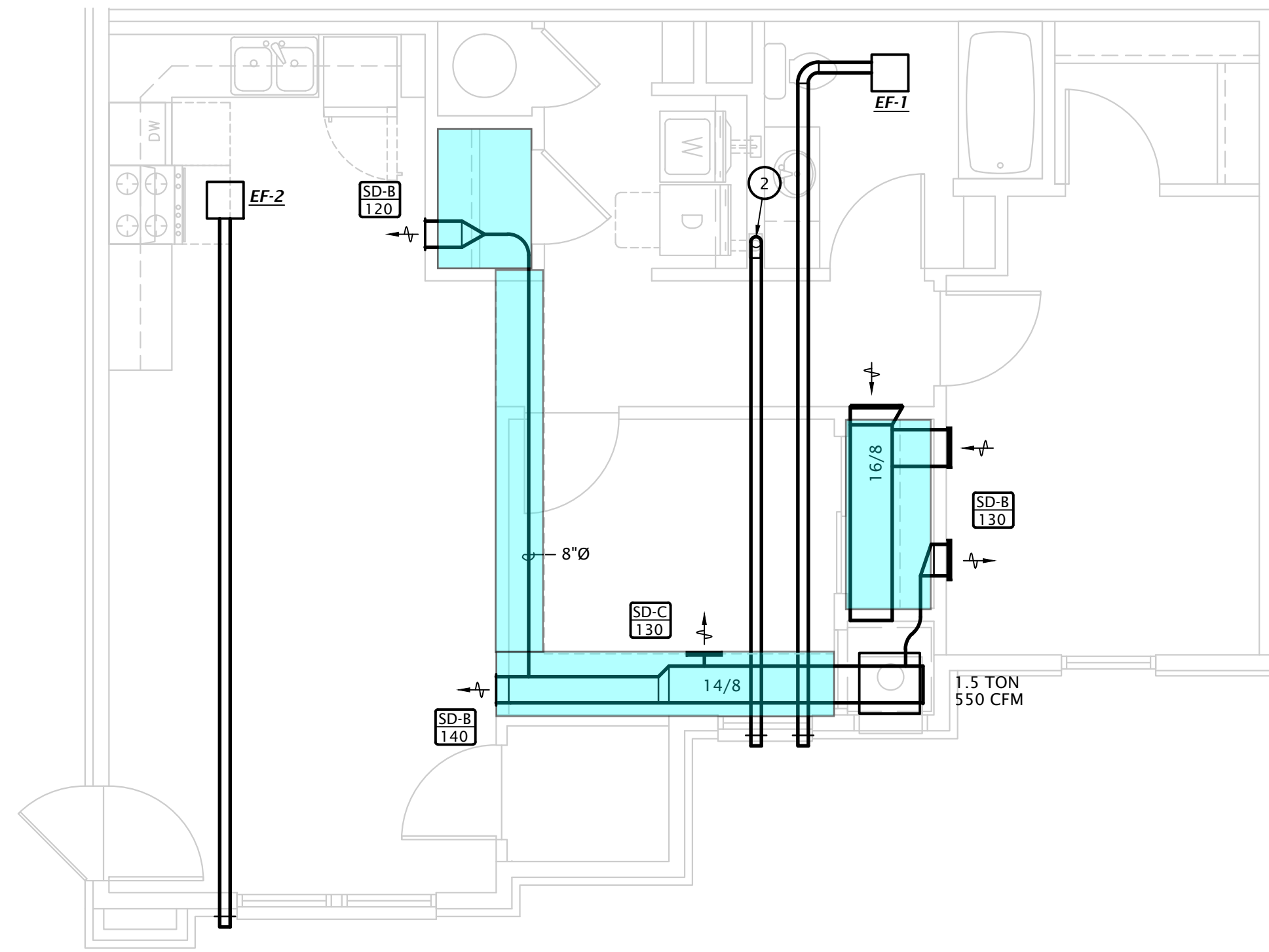
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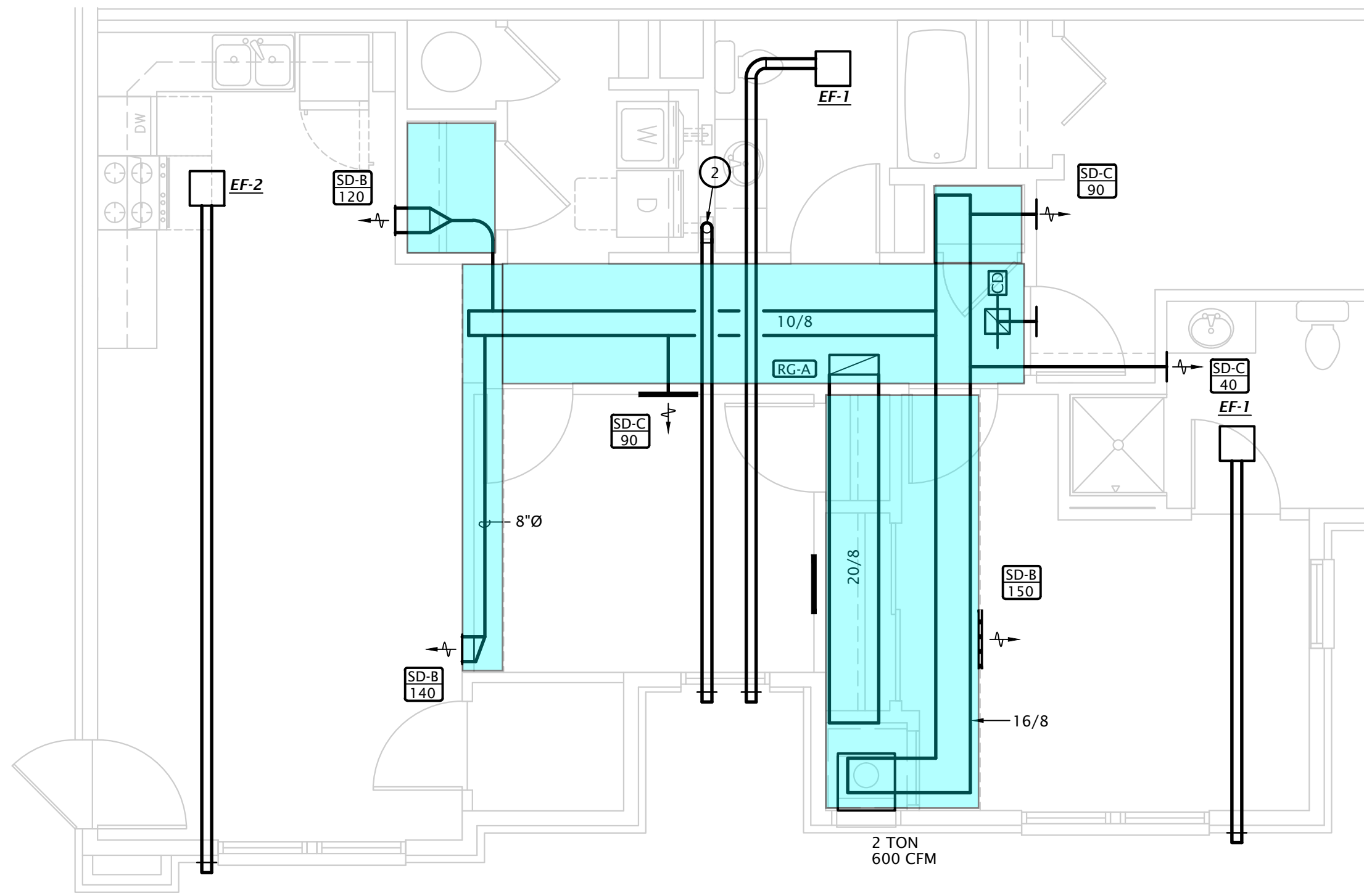
MECHANICAL NOTES BY SYMBOL

- NOTES SHOWN ARE TYPICAL FOR ALL APARTMENTS WHERE APPLICABLE.
- PROVIDE BLOWER COIL WITH CONDENSATE OVERFLOW SHUTDOWN SWITCH.
 - 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 BELOW FLOOR TO WALL CAP WITH BACKDRAFT DAMPER. MANUFACTURER'S MAXIMUM ALLOWABLE DUCT LENGTH = 45' WITH TWO 90° ELBOW. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.
 - NOTE: ANNUAL SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
 - ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS. SEE 'ME' SHEETS FOR HEAT PUMP LOCATIONS.
 - MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
 - BLOWER COIL TO BE DOWNFLOW TYPE. SEE M4.2 FOR SUPPLY DUCT ROUTING.
 - MOUNT RETURN GRILLES ON BOTH SIDES OF WALL. CENTER RETURN GRILLE BETWEEN CEILING AND TOP OF DOOR. PROVIDE TRANSFER DUCT BETWEEN GRILLES.
 - ROUTE 6" Ø EXHAUST DUCT TO WALL CAP WITH BIRD SCREEN AND BACKDRAFT DAMPER.
 - ROUTE 6" Ø OUTDOOR AIR INTAKE TO SOFFIT VENT WITH BIRD SCREEN. ENSURE OUTDOOR AIR INTAKE IS A MINIMUM OF 10'-0" FROM EXHAUST TERMINATIONS.
 - CONNECT 6" Ø SUPPLY AIR FROM 'ERV' TO RETURN AIR DUCT. PROVIDE BALANCING DAMPERS AND BALANCE AS INDICATED ON PLANS, SEE DETAIL 1:M6.1 FOR MORE INFORMATION.
 - DUCT TO FLOOR BELOW, SEE SECOND FLOOR PLANS FOR CONTINUATION.
 - MAKE TRANSITION FROM 6" Ø DUCT FROM BELOW TO 14"x2" SUPPLY GRILLE IN TOE KICK.

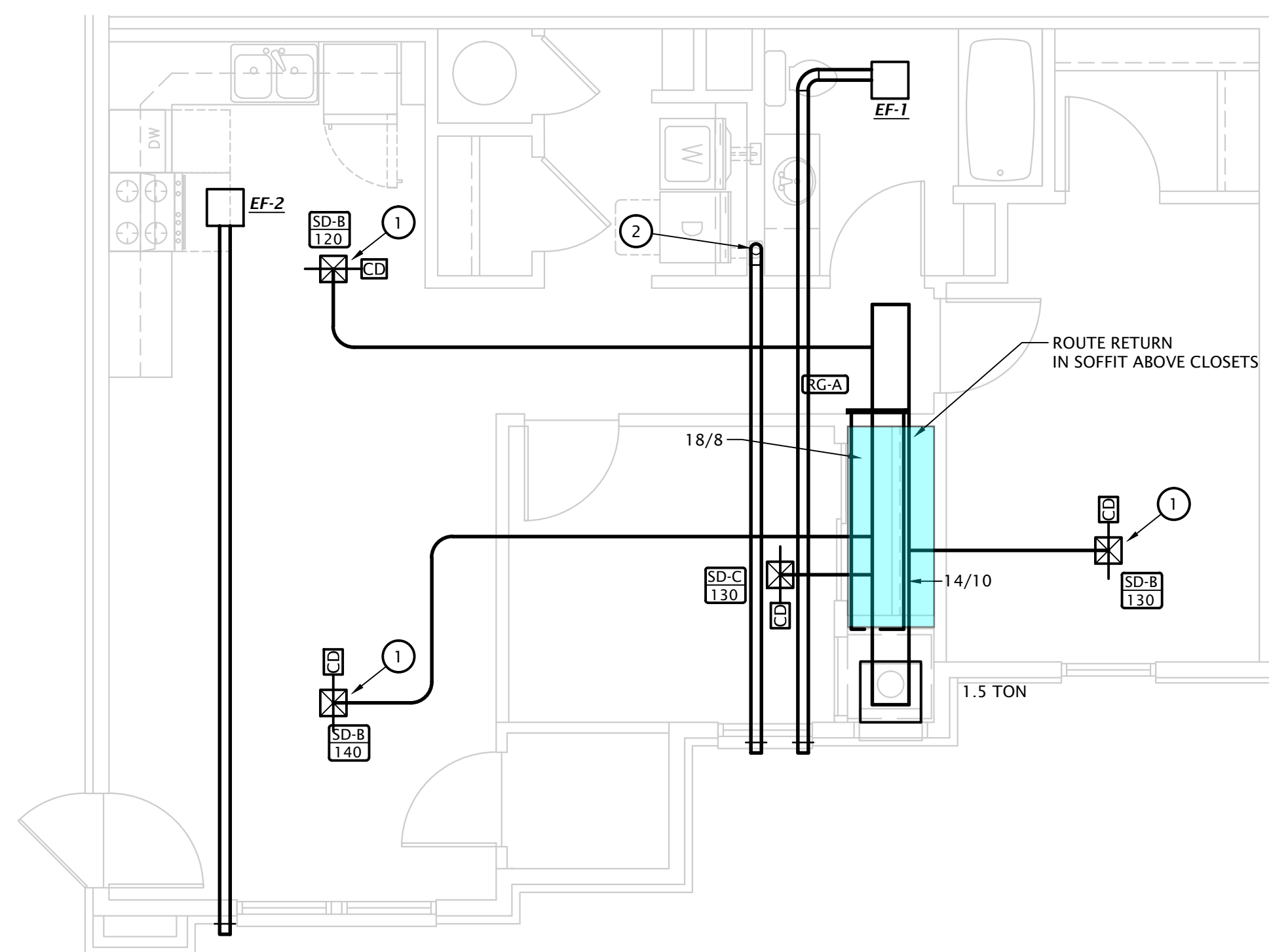
- NOTES:
- ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.
 - ALL DUCTWORK SHALL BE SEALED PER ENERGY STAR REQUIREMENTS. COORDINATE REQUIREMENTS WITH ENERGY RATER.
 - DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.



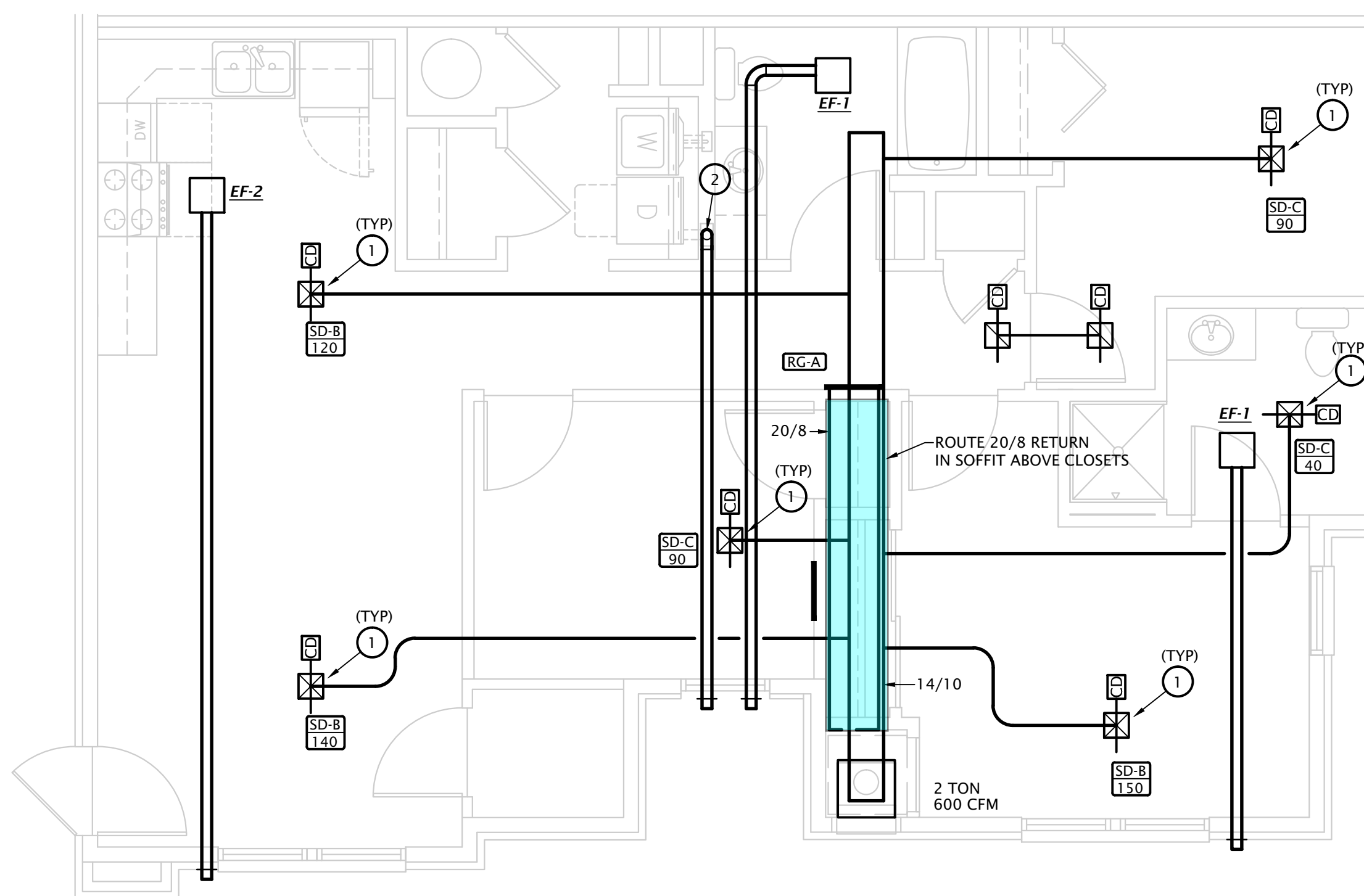
1 3RD FLOOR 2 BEDROOM ENLARGED FLOOR PLAN
 1/4" = 1'-0"



2 3RD FLOOR 3 BEDROOM ENLARGED FLOOR PLAN
 1/4" = 1'-0"



1 2 BEDROOM ENLARGED FLOOR PLAN
 1/4" = 1'-0"



2 3 BEDROOM ENLARGED FLOOR PLAN
 1/4" = 1'-0"

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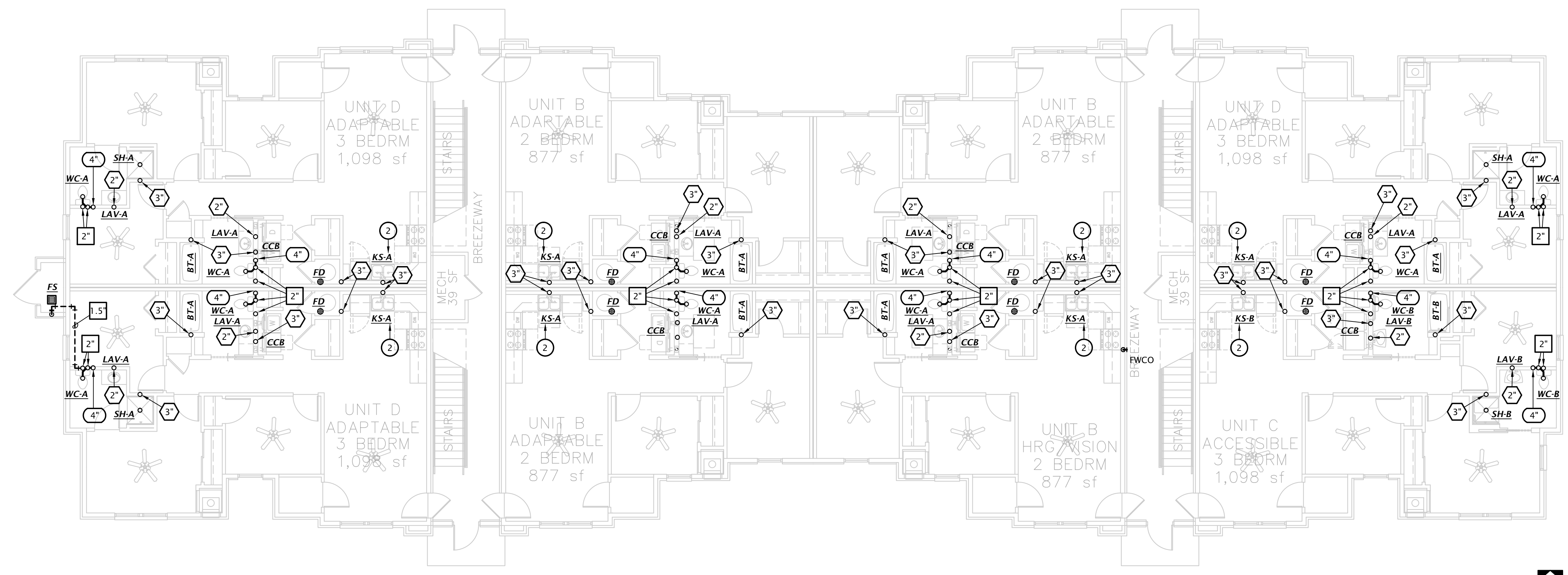
DATE: 6-14-2024
 JOB: 22-3262
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PLUMBING SIZING SYMBOLS

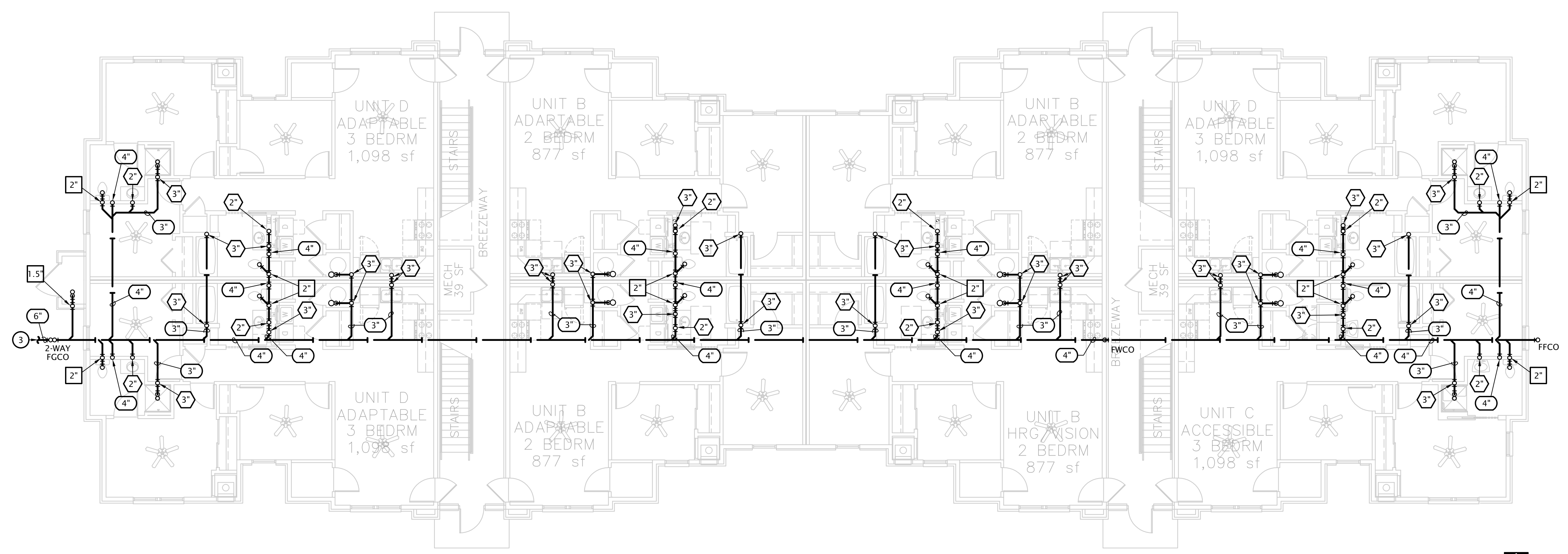
○ ^x	DRAIN (x = SIZE)
□ ^x	VENT (x = SIZE)
⬡ ^x	WASTE STACK VENT (x = SIZE)

- W&V PLAN GENERAL NOTES**
- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
 - SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO.
 - PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

- W&V PLAN NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. ROUTE DRAIN AT BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.
 - SEE CIVIL DRAWINGS FOR CONTINUATION



2 BUILDING 1 - FIRST FLOOR WASTE AND VENT PLAN
1/8" = 1'-0"



1 BUILDING 1 - UNDER FLOOR WASTE AND VENT PLAN
1/8" = 1'-0"

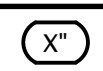


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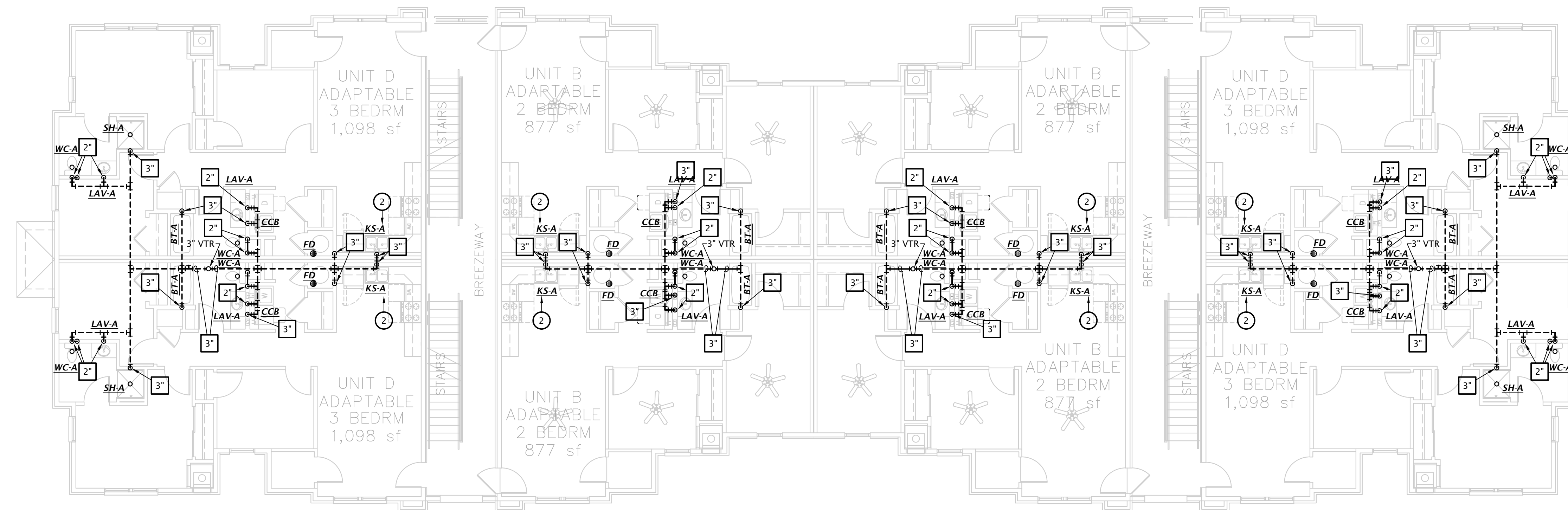
P1.2

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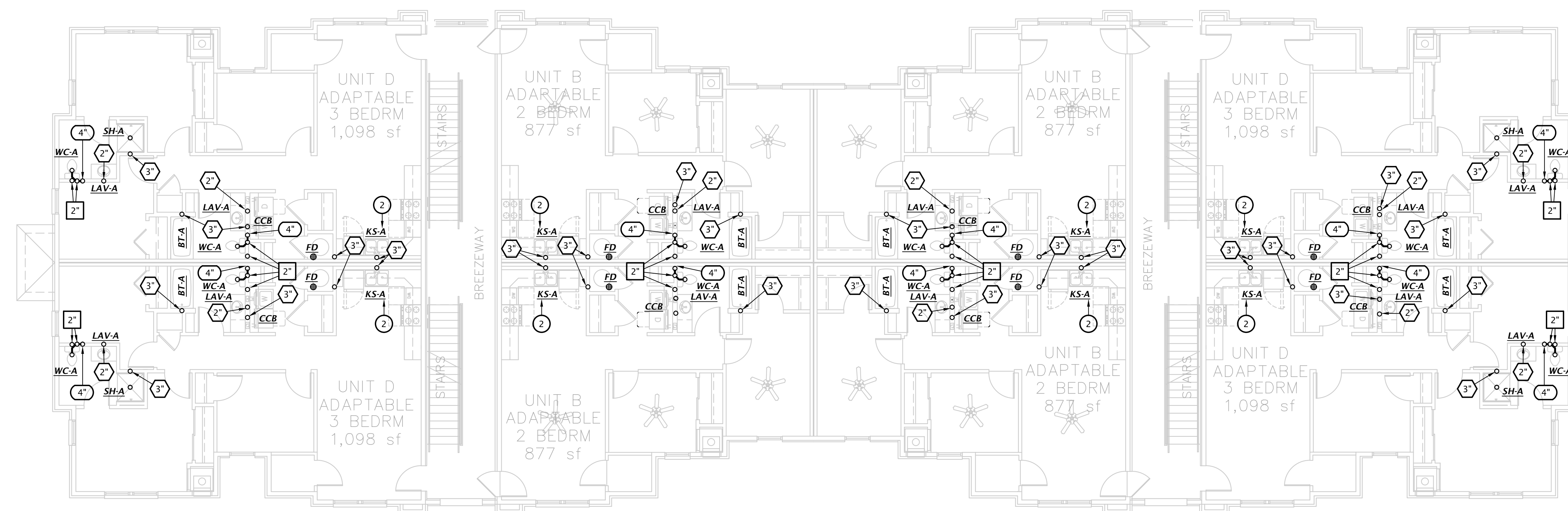
PLUMBING SIZING SYMBOLS	
	DRAIN (X = SIZE)
	VENT (X = SIZE)
	WASTE STACK VENT (X = SIZE)

- W&V PLAN GENERAL NOTES**
- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
 - SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO.
 - PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

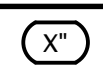


- W&V PLAN NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. ROUTE DRAIN AT BACK OF CABINETS, COORDINATE EXACT ROUTING WITH C.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.
 - SEE CIVIL DRAWINGS FOR CONTINUATION



2 BUILDING 1 - THIRD FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"

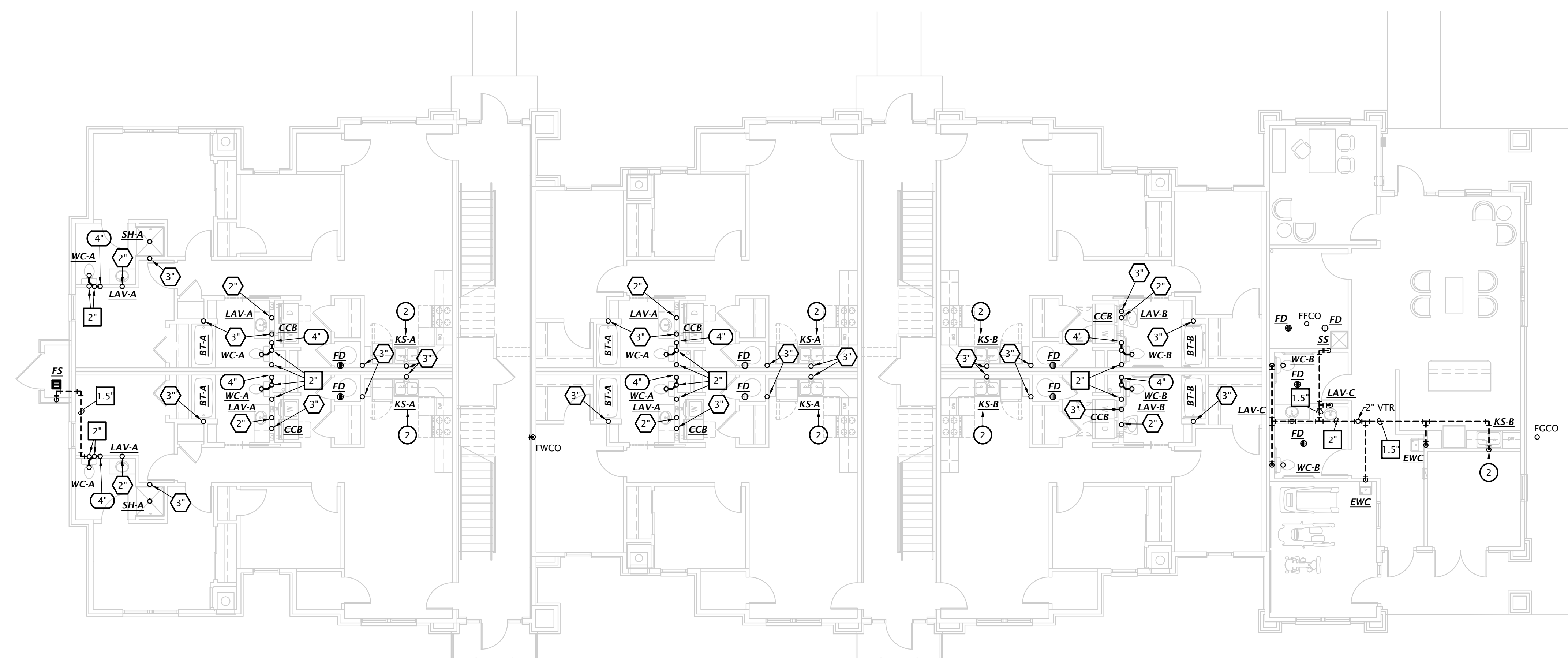


1 BUILDING 1 - SECOND FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"

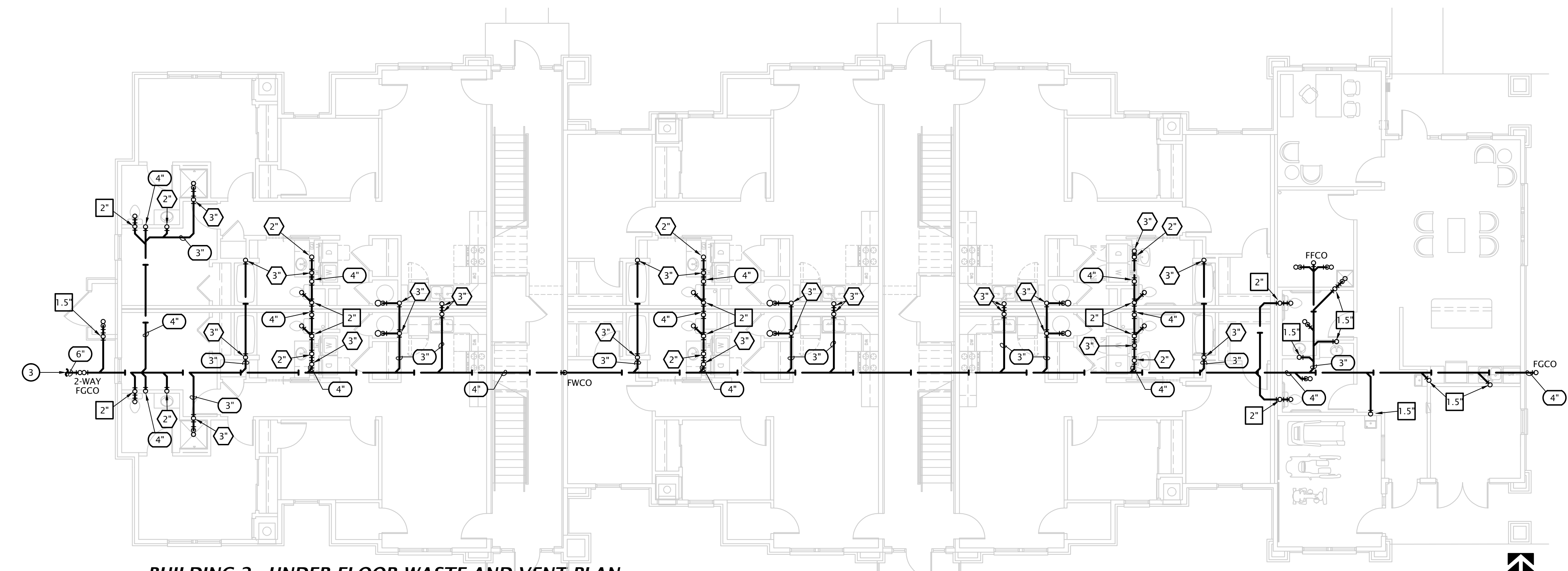
PLUMBING SIZING SYMBOLS	
	DRAIN (X = SIZE)
	VENT (X = SIZE)
	WASTE STACK VENT (X = SIZE)

- W&V PLAN GENERAL NOTES**
- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
 - SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO.
 - PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

- W&V PLAN NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. ROUTE DRAIN AT BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.
 - SEE CIVIL DRAWINGS FOR CONTINUATION



2 BUILDING 2 - FIRST FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"

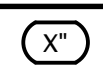




1 BUILDING 2 - UNDER FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"

THE RESERVES AT GRAND VIEW HEIGHTS
 NEW APARTMENT COMPLEX
 LARAMIE, WYOMING

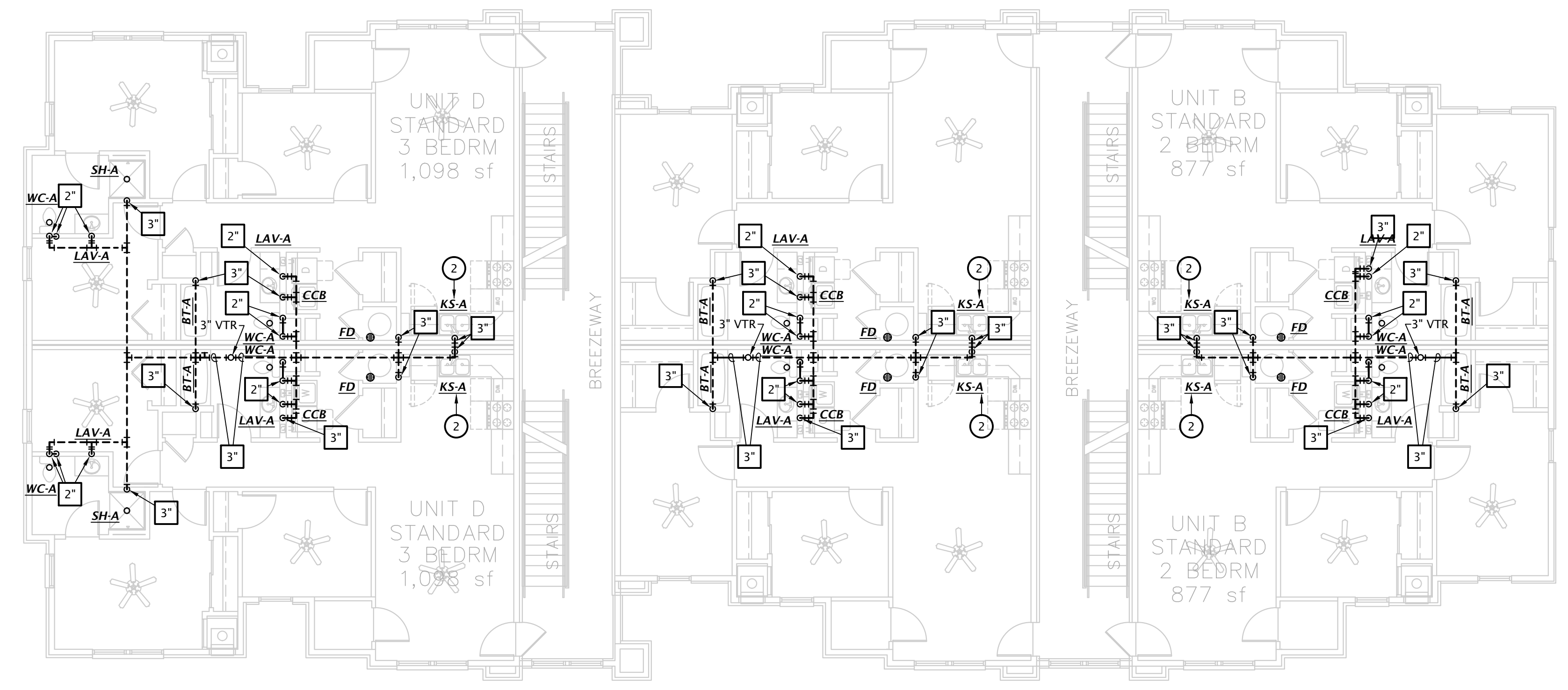
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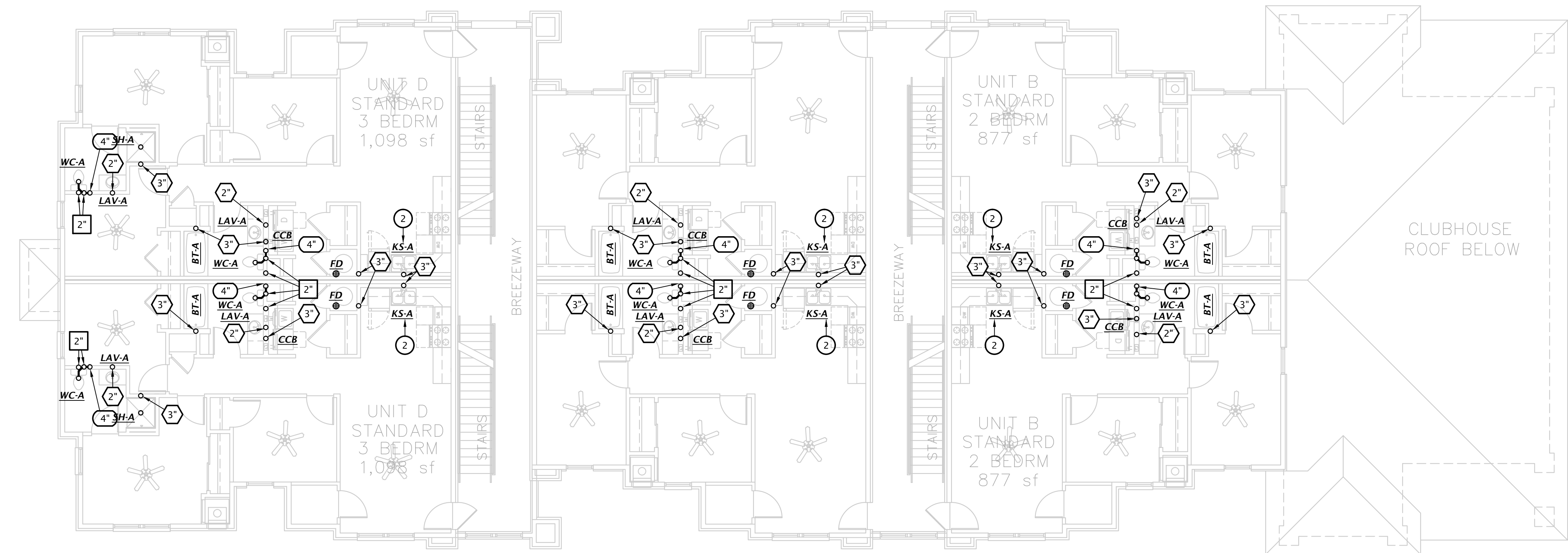
PLUMBING SIZING SYMBOLS	
	DRAIN (X = SIZE)
	VENT (X = SIZE)
	WASTE STACK VENT (X = SIZE)

- W&V PLAN GENERAL NOTES**
- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
 - SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO.
 - PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

- W&V PLAN NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. ROUTE DRAIN AT BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.
 - SEE CIVIL DRAWINGS FOR CONTINUATION



2 BUILDING 2 - THIRD FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"



1 BUILDING 2 - SECOND FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"

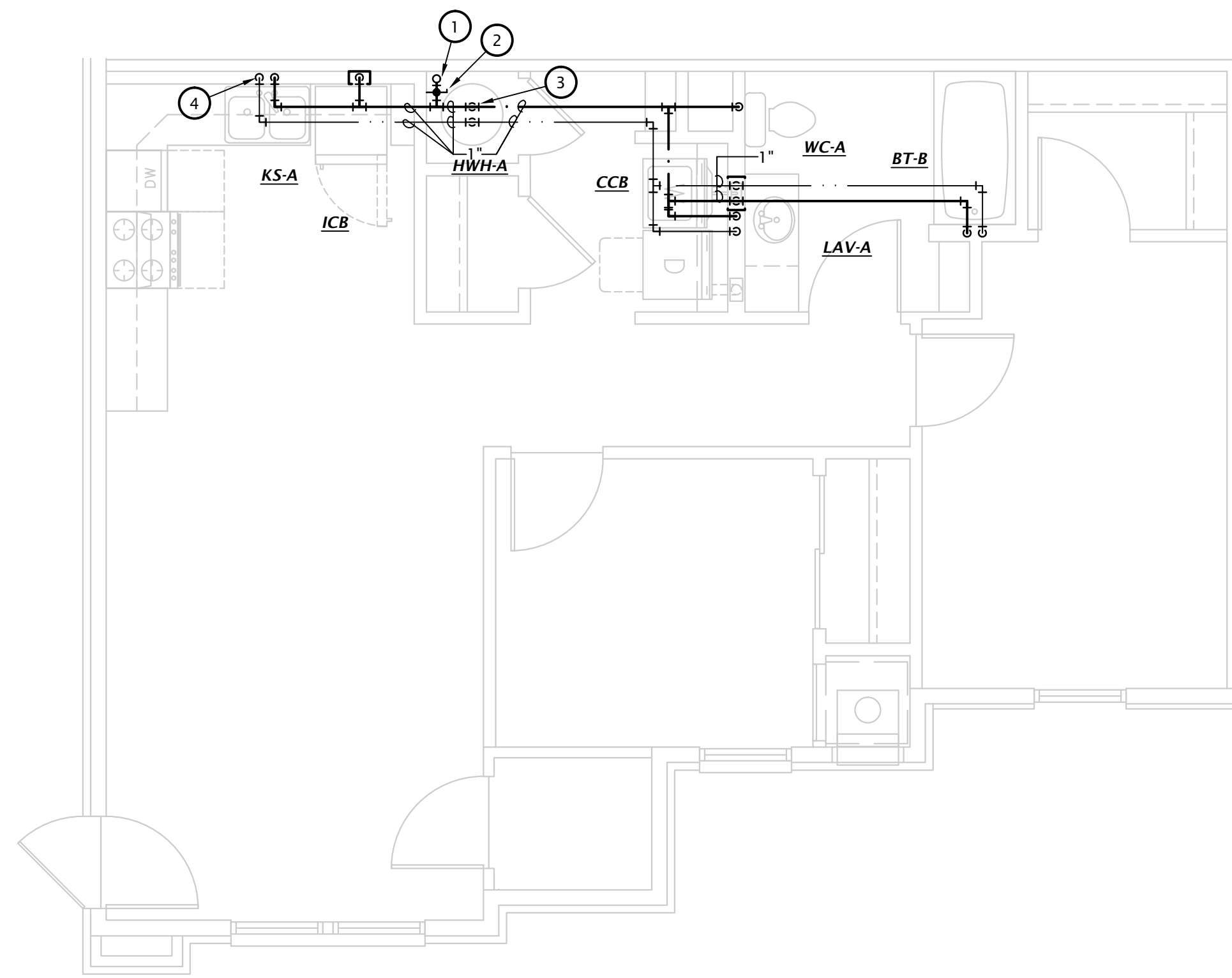
THE RESERVES AT GRAND VIEW HEIGHTS
 NEW APARTMENT COMPLEX
 LARAMIE, WYOMING

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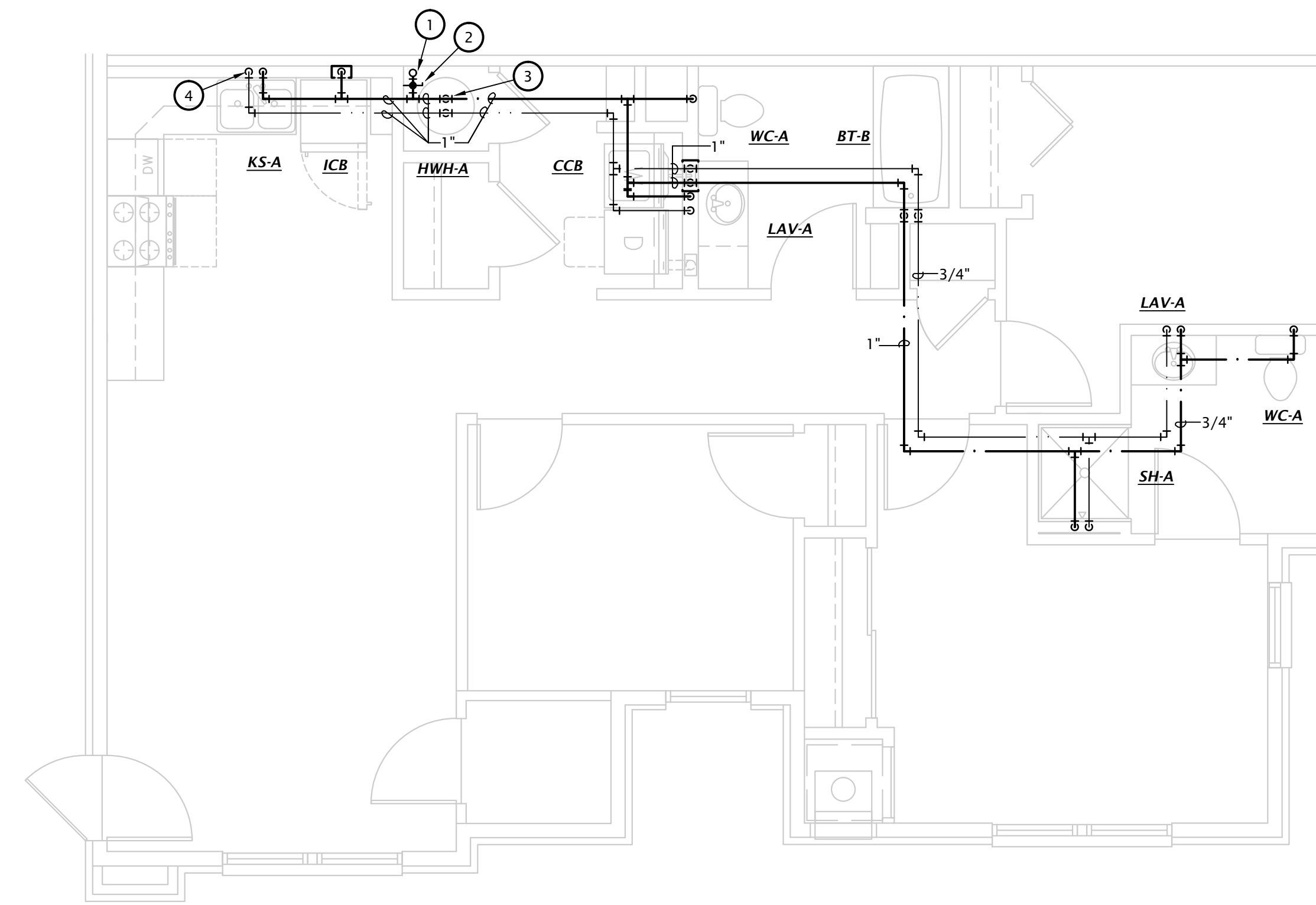
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PLUMBING PLAN NOTES BY SYMBOL

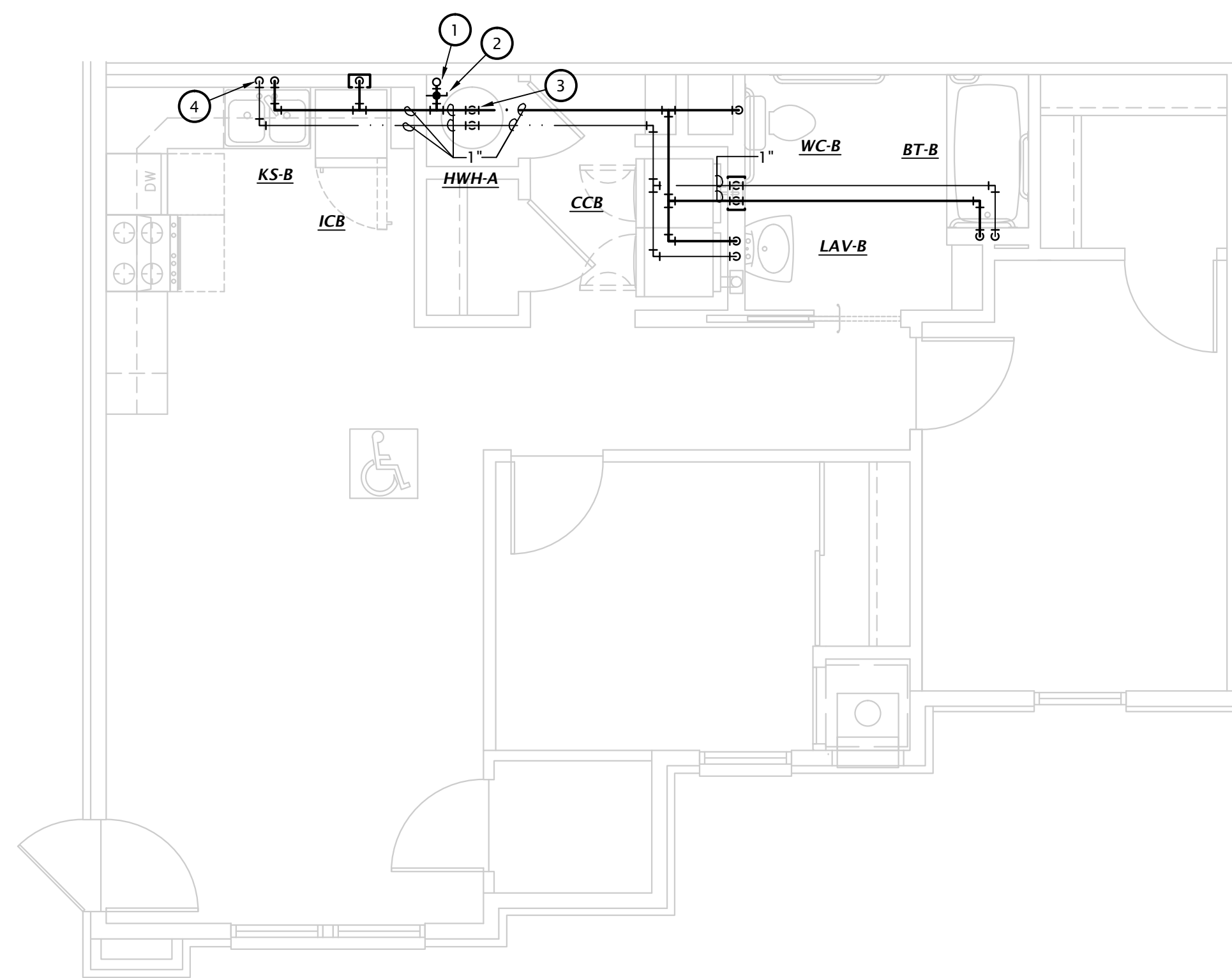
- SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
- PROVIDE 1-1/4" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE DOMESTIC RISER DIAGRAMS ON SHEET P5.2 FOR ADDITIONAL INFORMATION.
- CONNECT 1" CW AND HW TO HOT WATER HEATER 'HWH-A' SEE DETAIL X-P6.1.
- PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.



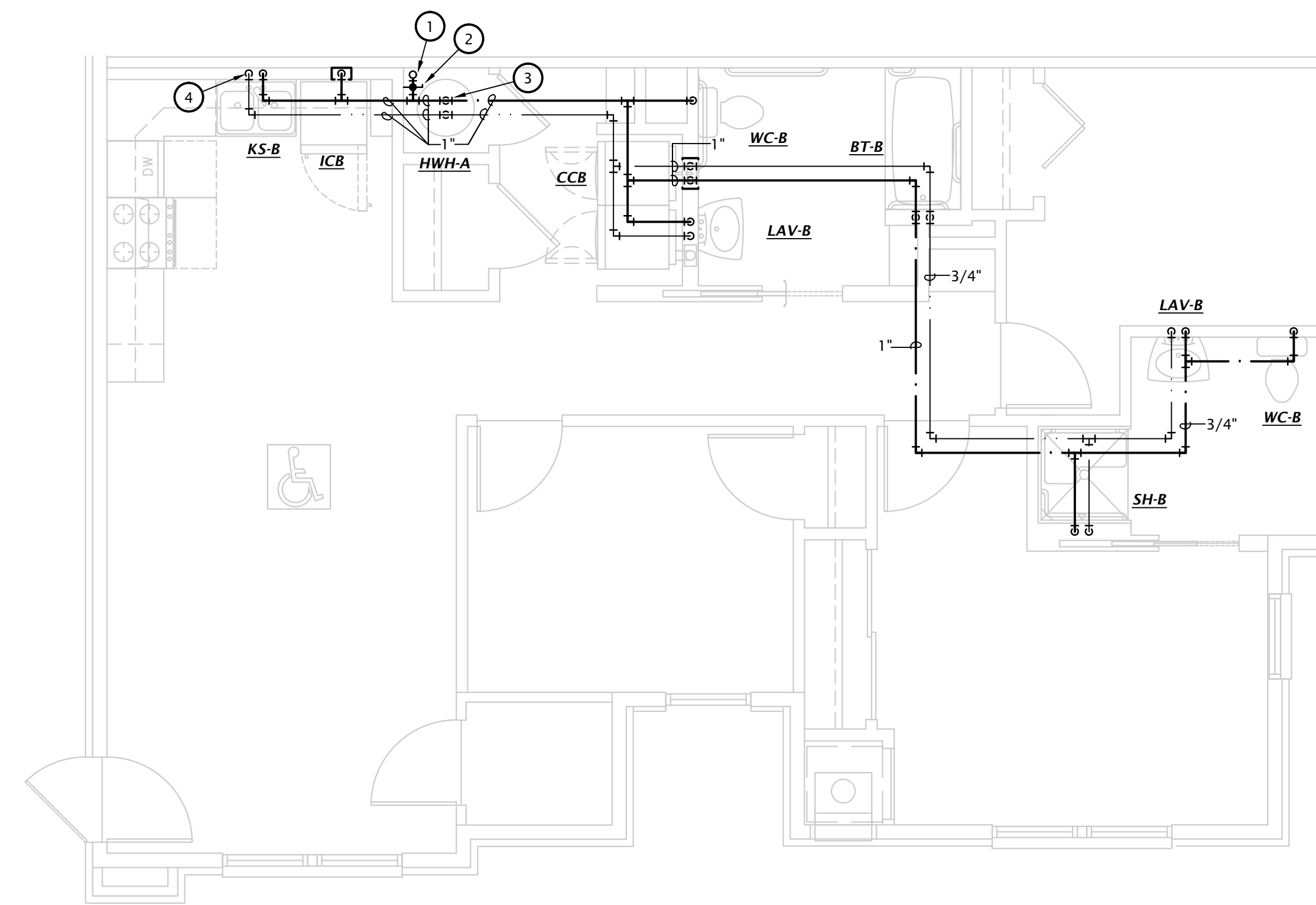
1 2 BEDROOM ENLARGED FLOOR PLAN
1/4" = 1'-0"



2 3 BEDROOM ENLARGED FLOOR PLAN
1/4" = 1'-0"



3 2 BEDROOM ACCESSIBLE ENLARGED FLOOR PLAN
1/4" = 1'-0"



4 3 BEDROOM ACCESSIBLE ENLARGED FLOOR PLAN
1/4" = 1'-0"

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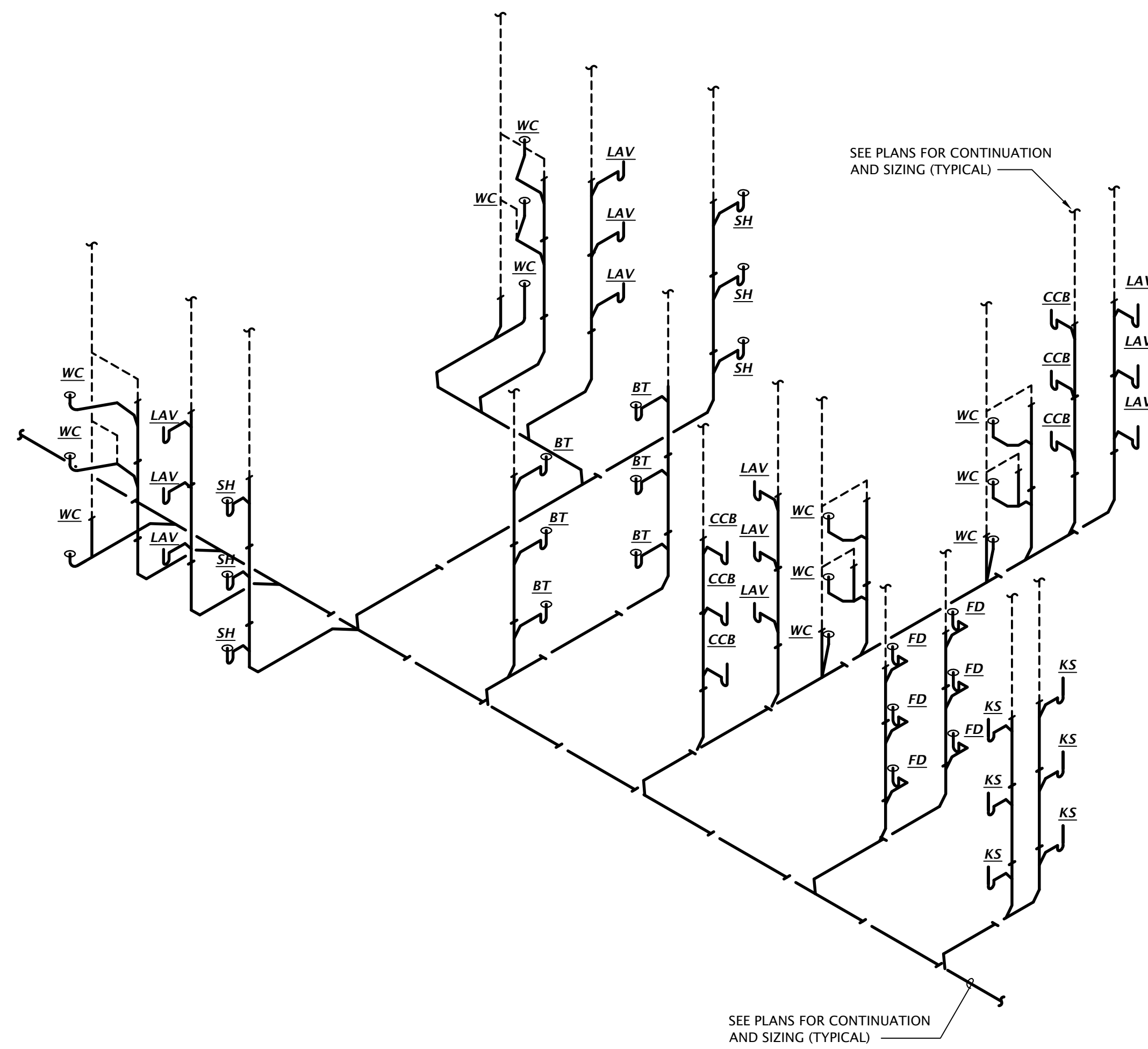
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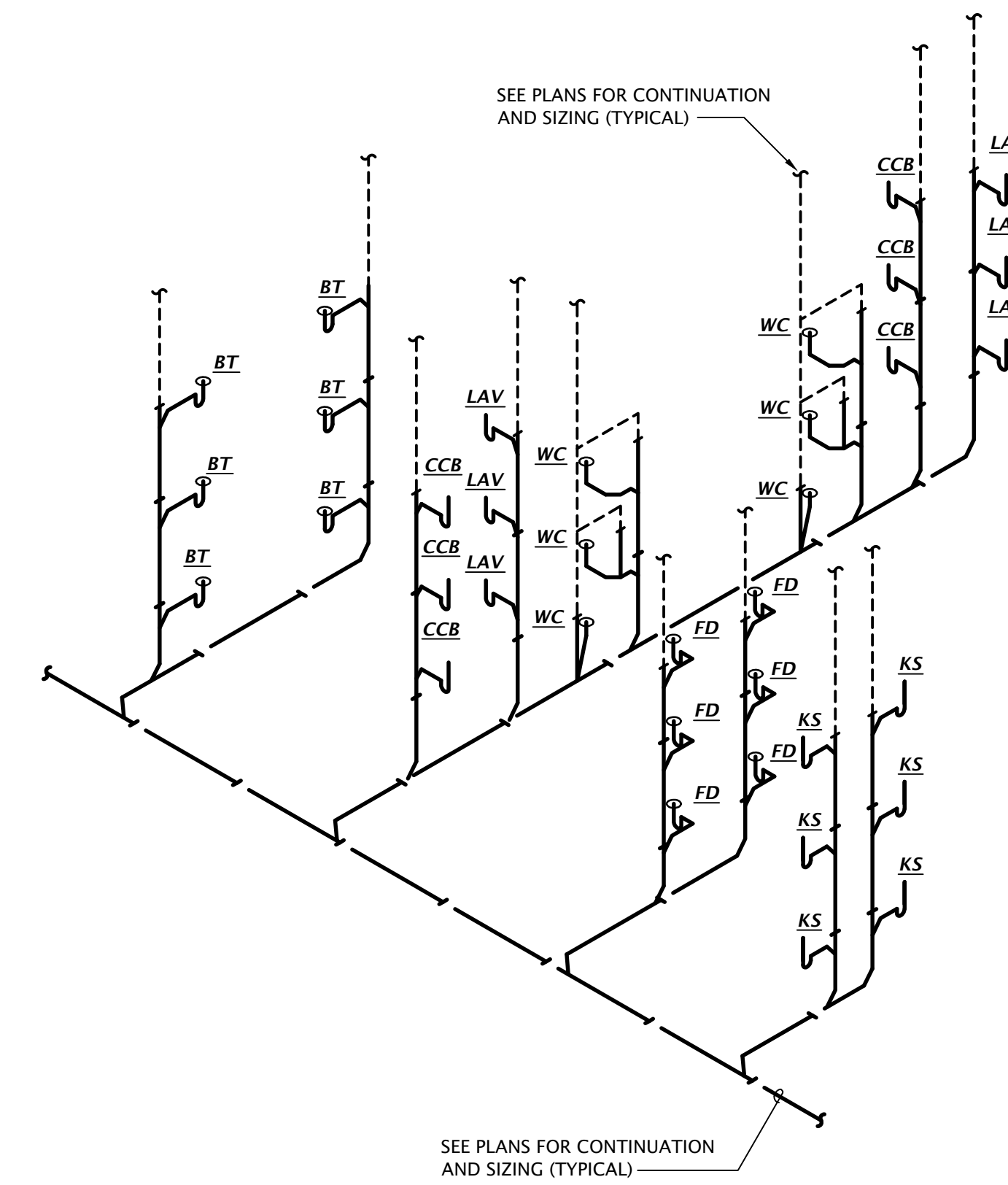
SHEET NO.:

WASTE AND VENT ISOMETRIC GENERAL NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
2. SEE WASTE AND VENT PLANS FOR ADDITIONAL ROUTING AND SIZING INFO.
3. PROVIDE CLEANOUT IN THE BASE OF EACH WASTE STACK.
4. ISOMETRICS SHOWN ARE TYPICAL AND OTHER APARTMENTS SHALL BE SIMILAR.



3 TYPICAL THREE BEDROOM WASTE AND VENT ISOMETRIC
 No Scale



3 TYPICAL TWO BEDROOM WASTE AND VENT ISOMETRIC
 No Scale

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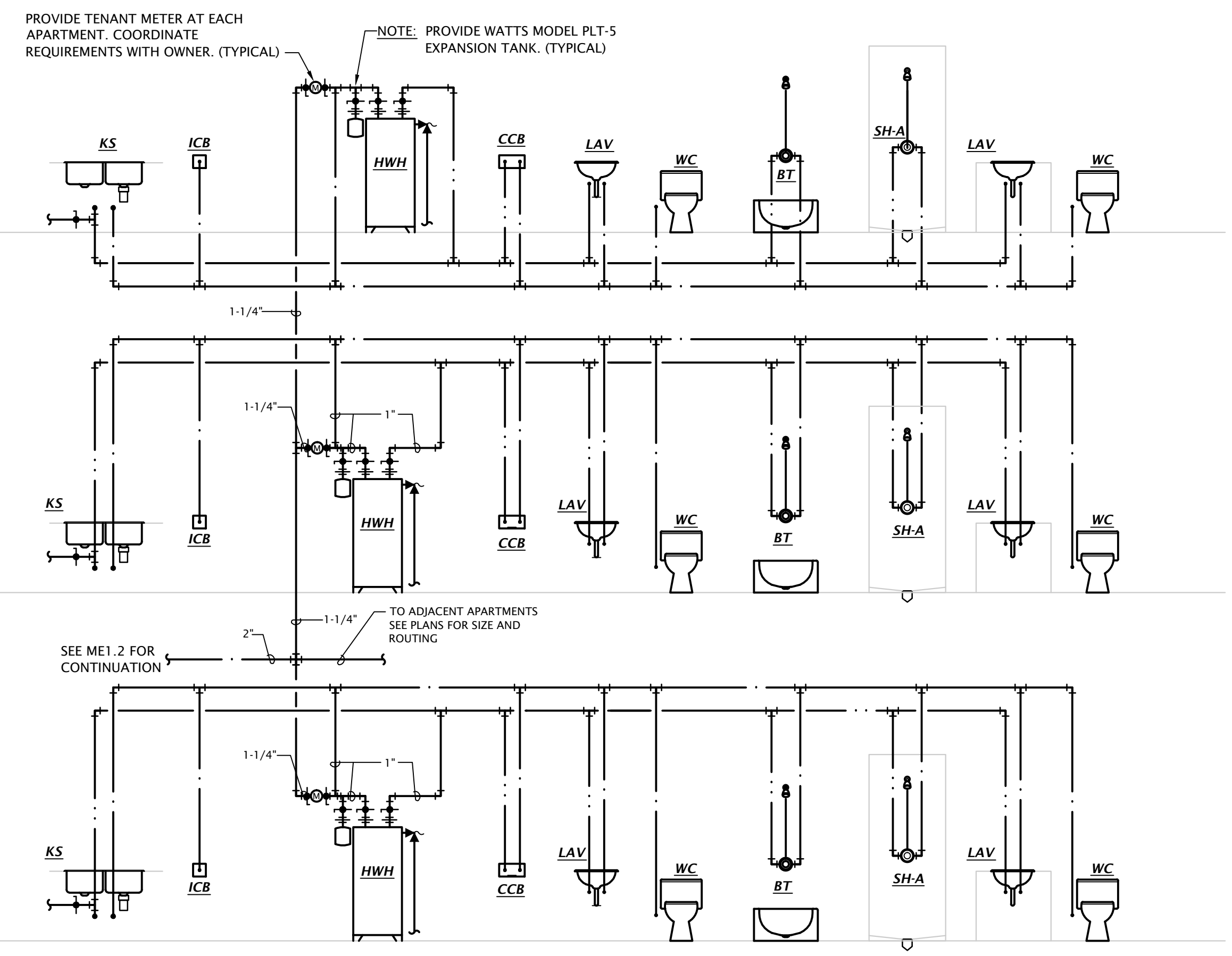
DATE: 6-14-2024

JOB: 22-3262

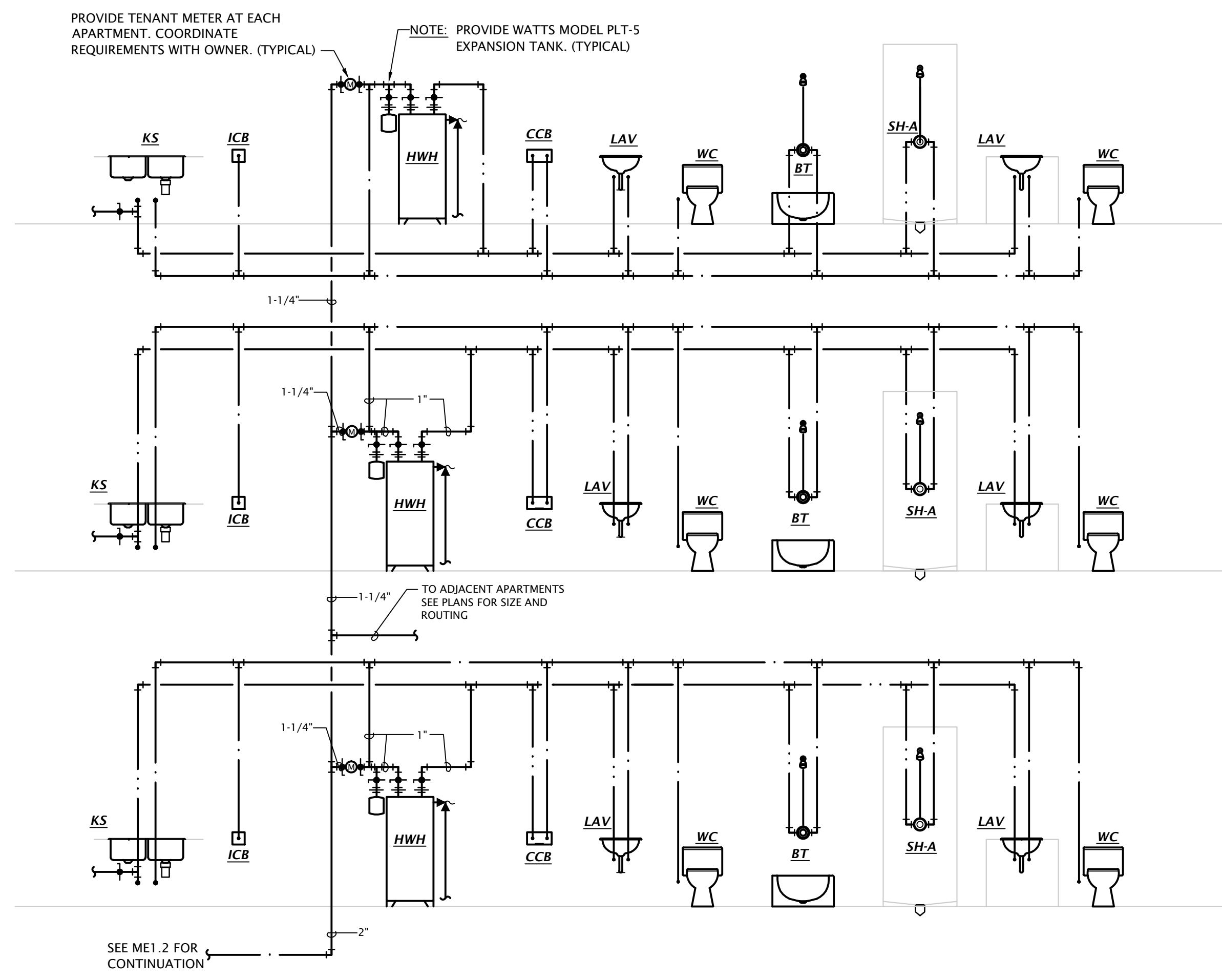
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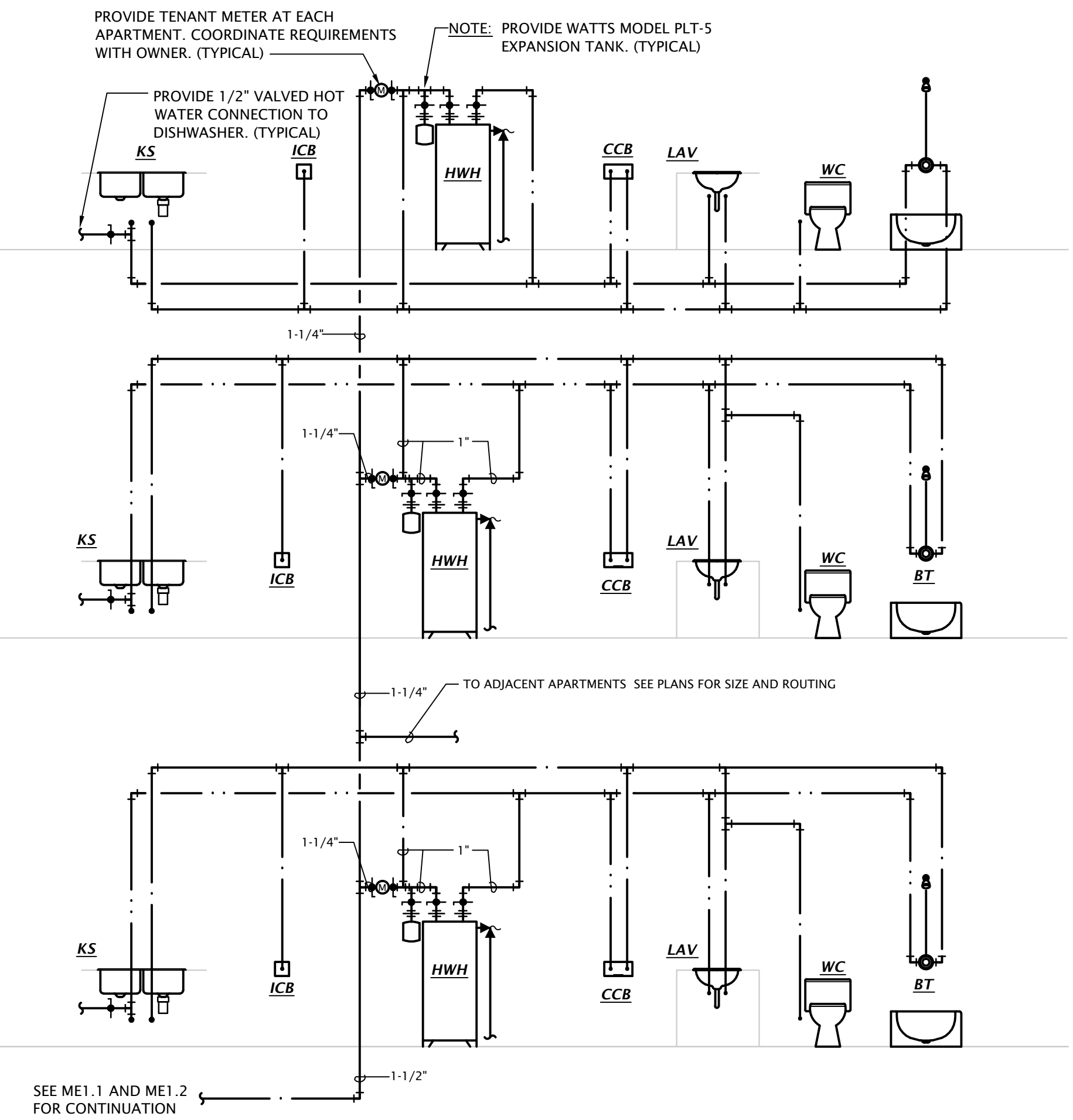
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1 3 BEDROOM DOMESTIC WATER RISER DIAGRAM
 Not to Scale



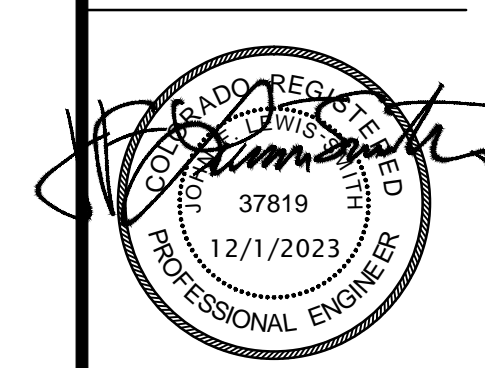
2 3 BEDROOM DOMESTIC WATER RISER DIAGRAM (BELOW GRADE)
 Not to Scale



3 2 BEDROOM DOMESTIC WATER RISER DIAGRAM
 Not to Scale

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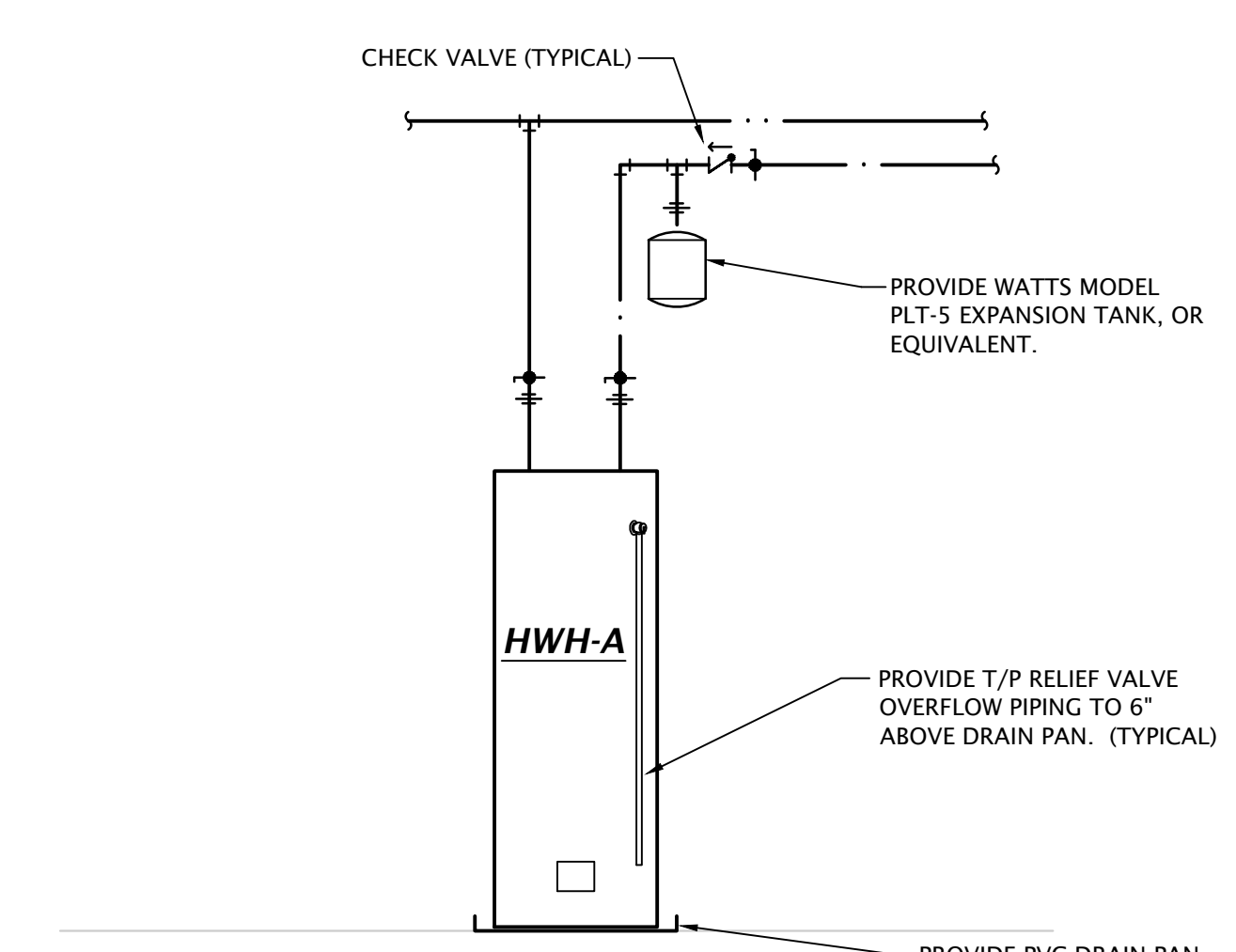
PLUMBING SYMBOLS	
↖	PIPE TURNING UP
↘	PIPE TURNING DOWN
—	COLD WATER PIPING
—	HOT WATER PIPING
—	WATER SERVICE PIPING
—	FIRE PROTECTION SERVICE PIPING
—	WASTE PIPING BELOW GRADE
—	WASTE PIPING ABOVE GRADE
—	VENT PIPING
—	NATURAL GAS PIPING
⌌	CHECK VALVE
⌌	GATE VALVE
⌌	BALL VALVE
⌌	UNION
⌌	T/P RELIEF VALVE

PLUMBING FIXTURE SCHEDULE

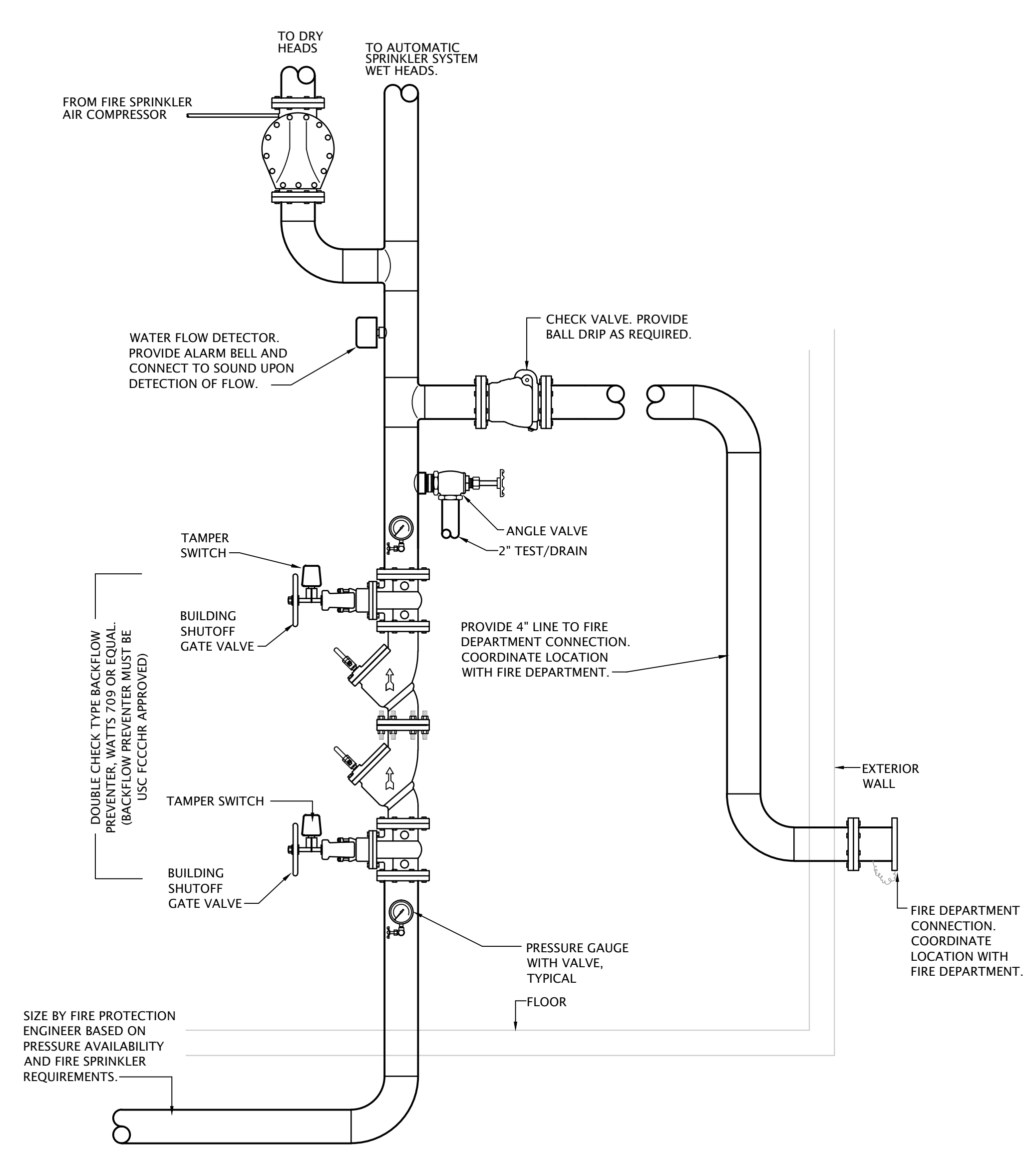
MARK	MANUFACTURER	DESCRIPTION	TRIM		ROUGH-IN SIZES				NOTES
			MANUFACTURER	DESCRIPTION	WASTE	VENT	CW	HW	
WC-A	KOHLER	Model 5296 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	K-5588 Purefresh white, elongated closed front seat and cover	4"	2"	1/2"	---	
WC-B	KOHLER	Model 5296 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	K-5588 Purefresh white, elongated closed front seat and cover	4"	2"	1/2"	---	1
LAV-A	KOHLER	Model 2196-4-0 self-rimming lavatory, white vitreous china, 20"W x 17", faucet holes on 4" centers.	KOHLER	Model 15182-4DRA, 0.5 GPM, single handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	2,4
LAV-B	KOHLER	Model 2005-0 wall hung lavatory, white vitreous china, 18-1/4"W x 17-1/4", faucet holes on 4" centers.	KOHLER	Model 15199-4DRA, 0.5 GPM, single handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2,3,4
LAV-C	KOHLER	Model 2196-4-0 self-rimming lavatory, white vitreous china, 20"W x 17", faucet holes on 4" centers.	KOHLER	Model 15182-4NDRA single handle faucet. Provide grid drain. Provide point of use tempering valve.	2"	1-1/2"	1/2"	1/2"	1,2,3,4
KS-A	JUST	Model DL-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x8"D inside, fully undercoated, faucet holes as req.	KOHLER	Model K-10412, 1.5 GPM, single handle kitchen sink faucet with hose spray attachment. Chrome finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	2,4
KS-B	JUST	Model DL-ADA-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x8"D inside, fully undercoated, faucet holes as req., and drain holes center rear.	KOHLER	Model K-10412, 1.5 GPM, single handle kitchen sink faucet with hose spray attachment. Chrome finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	1,3,2,4
BT-A	AQUARIUS	Model G 6063 TS reinforced fiberglass tub/shower, 60"W x35-3/4"D x76-1/2"H, with integral soap/toiletry shelves, 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, 1.5 GPM push-clean showerhead and pop-up drain with overflow.	2"	1-1/2"	1/2"	1/2"	2,4,5
BT-B	AQUARIUS	Model S 6000 TS OT reinforced fiberglass ADA tub/shower, 60"W x33"D x82"H, with integral soap/toiletry shelves and grab bars in accordance with ADA requirements, seat at end of tub, right or left hand rough-in as required, white finish.	DELTA	Model R10000-UNWS/T13H252 pressure balancing tub/shower valve with non-positive shut-off control and temperature control to ensure maximum 120° water with single metal lever handle, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar, metal lever handshower, diverter valve, and shower head with arm.	2"	1-1/2"	1/2"	1/2"	1,2,4,5
SH-A	AQUARIUS	Model G-3679-SH cast acrylic shower, 36"W x36"D x79"H, with integral soap/toiletry shelves, right or left hand rough-in as required, center drain, white finish.	DELTA	Model R10000-UNWS/T13H132 single handle pressure-balancing valve, 1.5 GPM push-clean showerhead.	2"	1-1/2"	1/2"	1/2"	1,5
SH-B	AQUARIUS	Model G-3682 8F cast acrylic shower, 36" square inside, 18 gauge stainless steel grab bars, fold up padded seat, molded soap shelves, brass drain w/chrome strainer, collapsible water dam, right or left hand rough-in as required.	DELTA	Model R10000-UNWS/T13220-H2OT pressure balancing shower valve with integral temperature limits, single metal lever handle, 1.5 GPM handshower with double check valves, flexible hose, and 24" stainless steel slide bar.	2"	1-1/2"	1/2"	1/2"	1,5
SS	FIAT	Model MSB-2424 one piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards.	DELTA	Model 28T9 faucet with hose thread outlet, vacuum breaker, pail hook, wall brace, metal lever handles.	3"	1-1/2"	3/4"	3/4"	4
EWC	ELKAY	Model EMABFTLDDWSLK ADA compliant dual height, self-contained water cooler with stainless steel basin, front and side push bar actuator, lead-free, 120 volts. Provide unit with EZH20 bottle filling station. Provide unit with Model 98313C Accessory Apron.			2"	1-1/2"	1/2"	---	
WH	WOODFORD	Model 25 frost proof wall hydrant with anti-siphon vacuum breaker, metal handle.			---	---	3/4"	---	
CCB	IPS CORP.	Model W4700 recessed washing machine box with 2"PVC/ABS drain coupling and knockout test cap. Two, 1/4 turn adaptor ball valves, sweat connection.			2"	2"	1/2"	1/2"	
ICB	IPS CORP.	Model FRIB12 ice maker connection box with 1/4 turn ball valve and 1/2" sweat copper connection.			---	---	1/2"	---	
FD	SIOUX CHIEF	Series 833 adjustable floor drain with nickel bronze strainer. Provide Proset Trapguard trap protection device.			2"	---	---	---	
FS	SIOUX CHIEF	Series 861 PVC floor sink with PVC strainer. Provide Proset Trapguard trap protection device.			4"	---	---	---	
HHW	A.O. SMITH	Model ENJ-40, 40 gallon electric water heater, 0.93 UEF, 4500 watts, 208 volts heating element, 21 GPH recovery @ 90°F temp rise. Supplied with temperature & pressure relief valve and brass drain valve. Water heater shall have temperature controls set to limit supply temperature to 120°F or less.							

GENERAL:
 - Provide fixtures with all trim necessary for complete installation

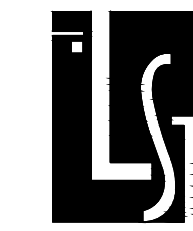
NOTES:
 1. Fixture and installation to meet accessibility requirements of the Fair Housing Act.
 2. Provide 1/4 turn angle stops with escutcheon plates, and chrome plated or braided stainless steel supplies, and 1-1/4" cast brass p-trap.
 3. Insulate water and waste piping below lavatory. Utilize insulation kit equivalent to LavGuard by Truebro.
 4. Trim shall be provided with polished chrome finish.
 5. Fixture shall be WaterSense labeled.



2 APARTMENT WATER HEATER DETAIL
 Not to Scale

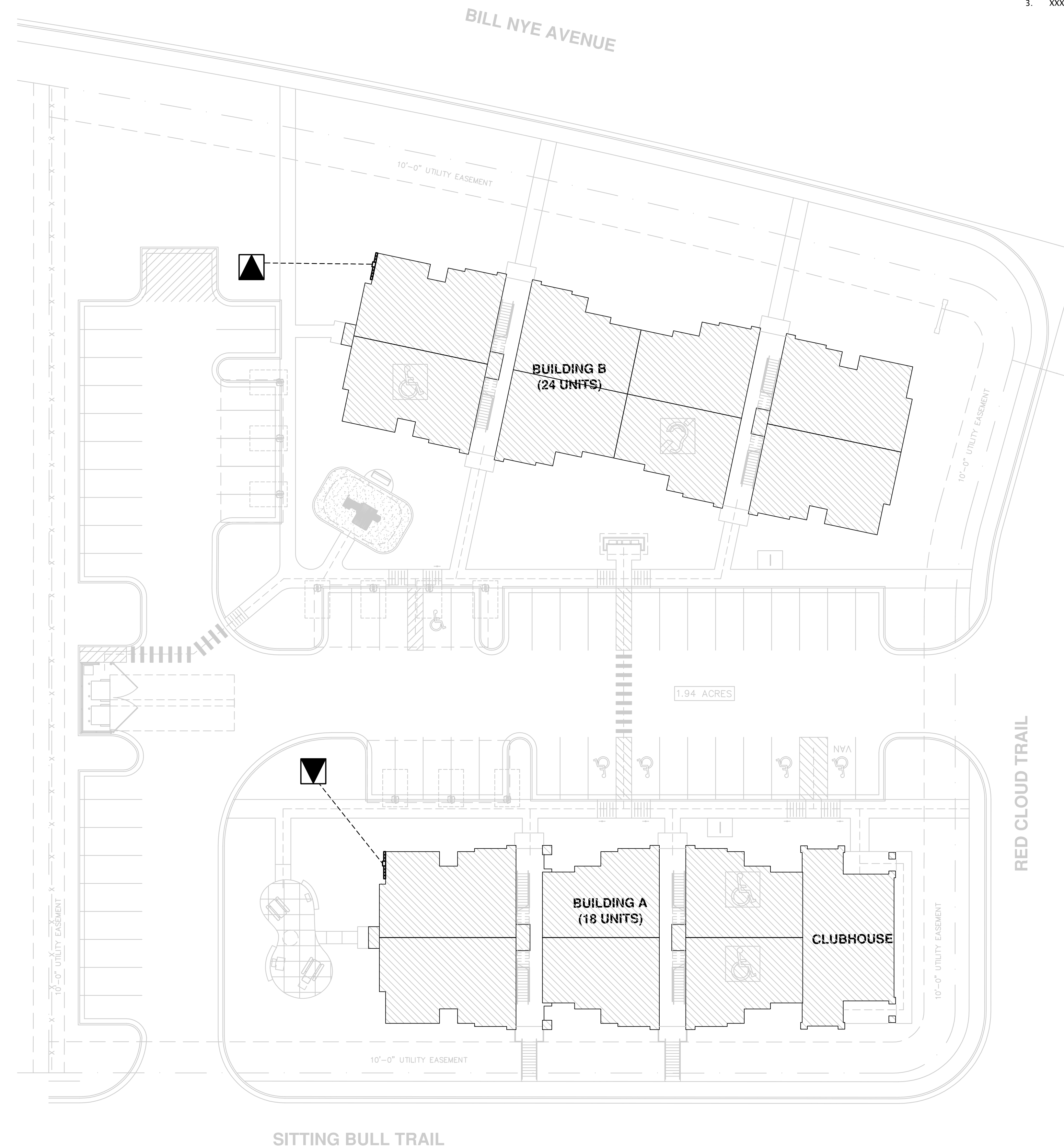


1 FIRE PROTECTION RISER DIAGRAM
 NO SCALE



M/E NOTES BY SYMBOL

1. XXX.
2. XXX.
3. XXX.



1 ELECTRICAL SITE PLAN
 1" = 20'-0"



THE RESERVES AT GRAND VIEW HEIGHTS
 NEW APARTMENT COMPLEX
 LARAMIE, WYOMING

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JOB: 22-3262

SHEET NO.:

E1.0

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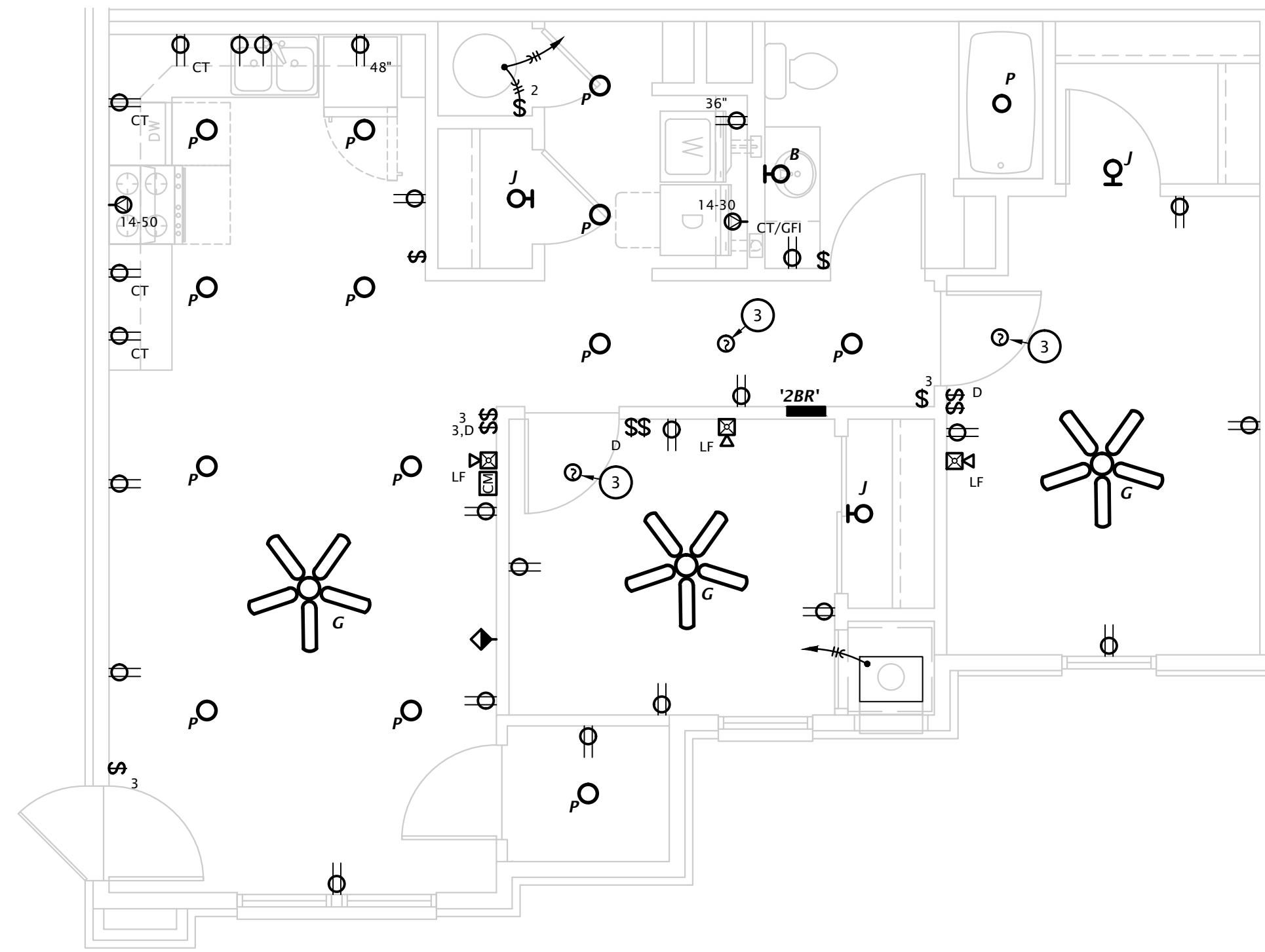


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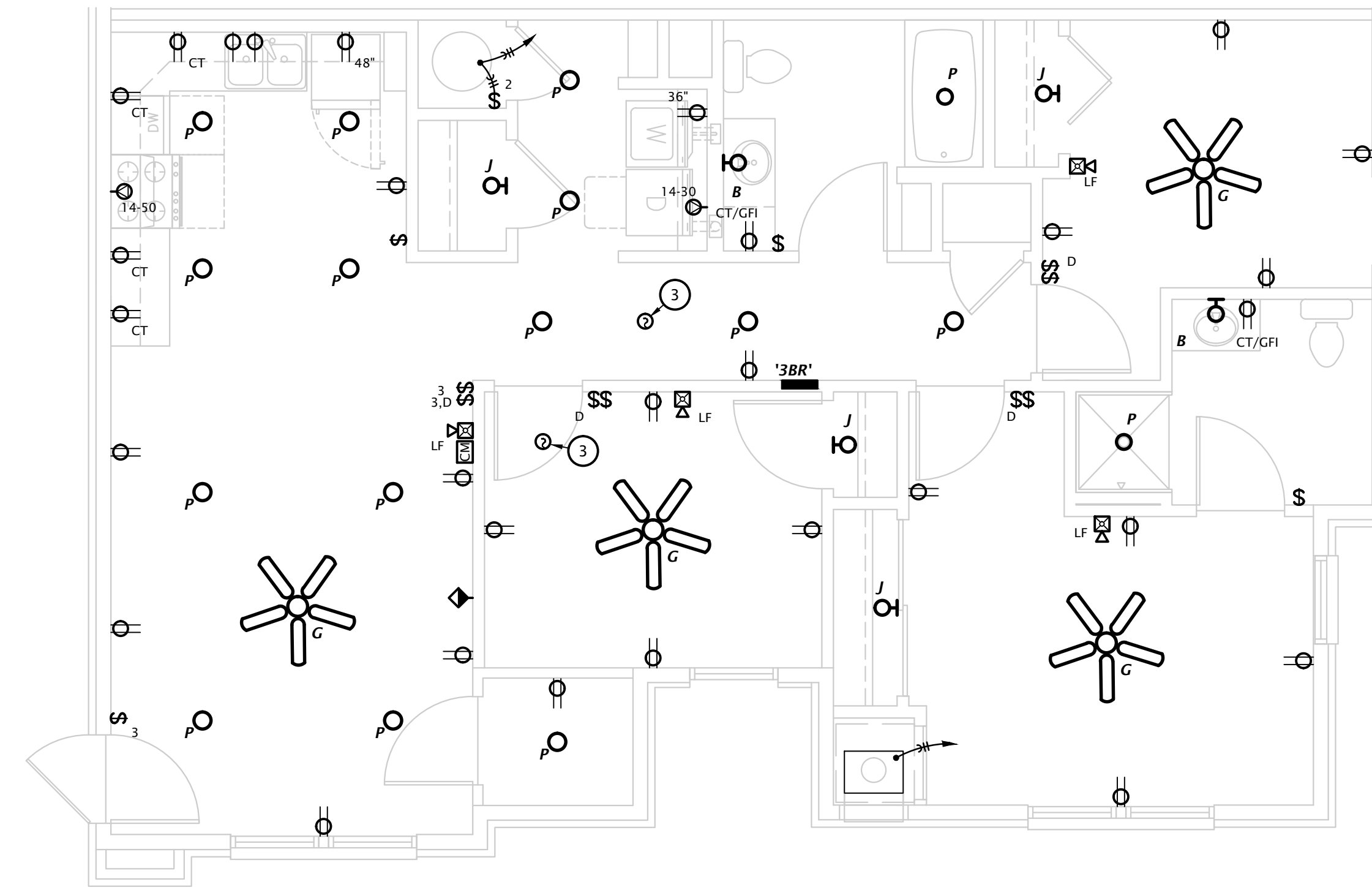
1881 Main Street, Suite 301
 Kansas City, MO 64108
 jgr@jgrarchitects.com

ELECTRICAL PLAN NOTES BY SYMBOL

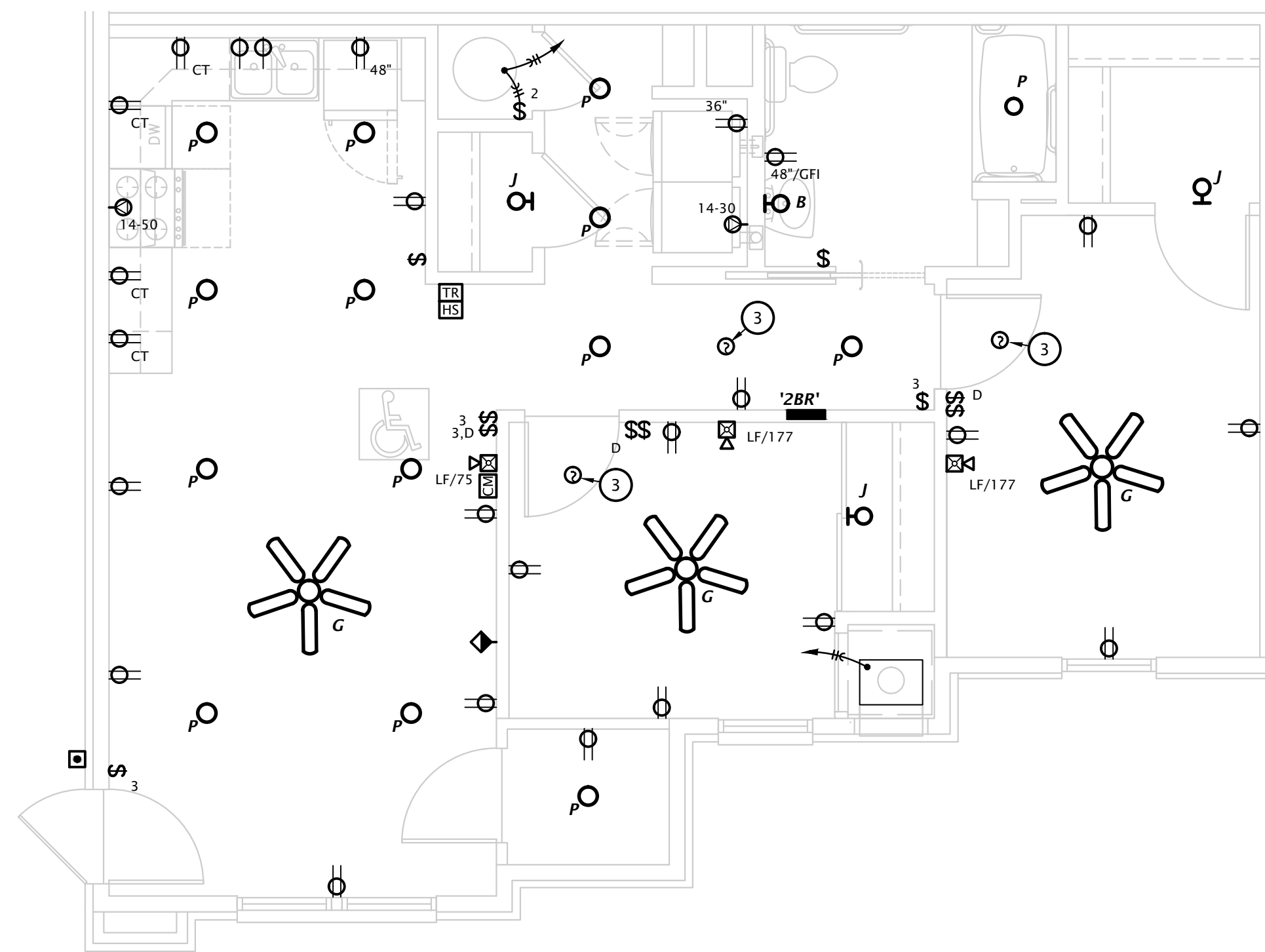
1. XXX
2. XXX
3. XXX



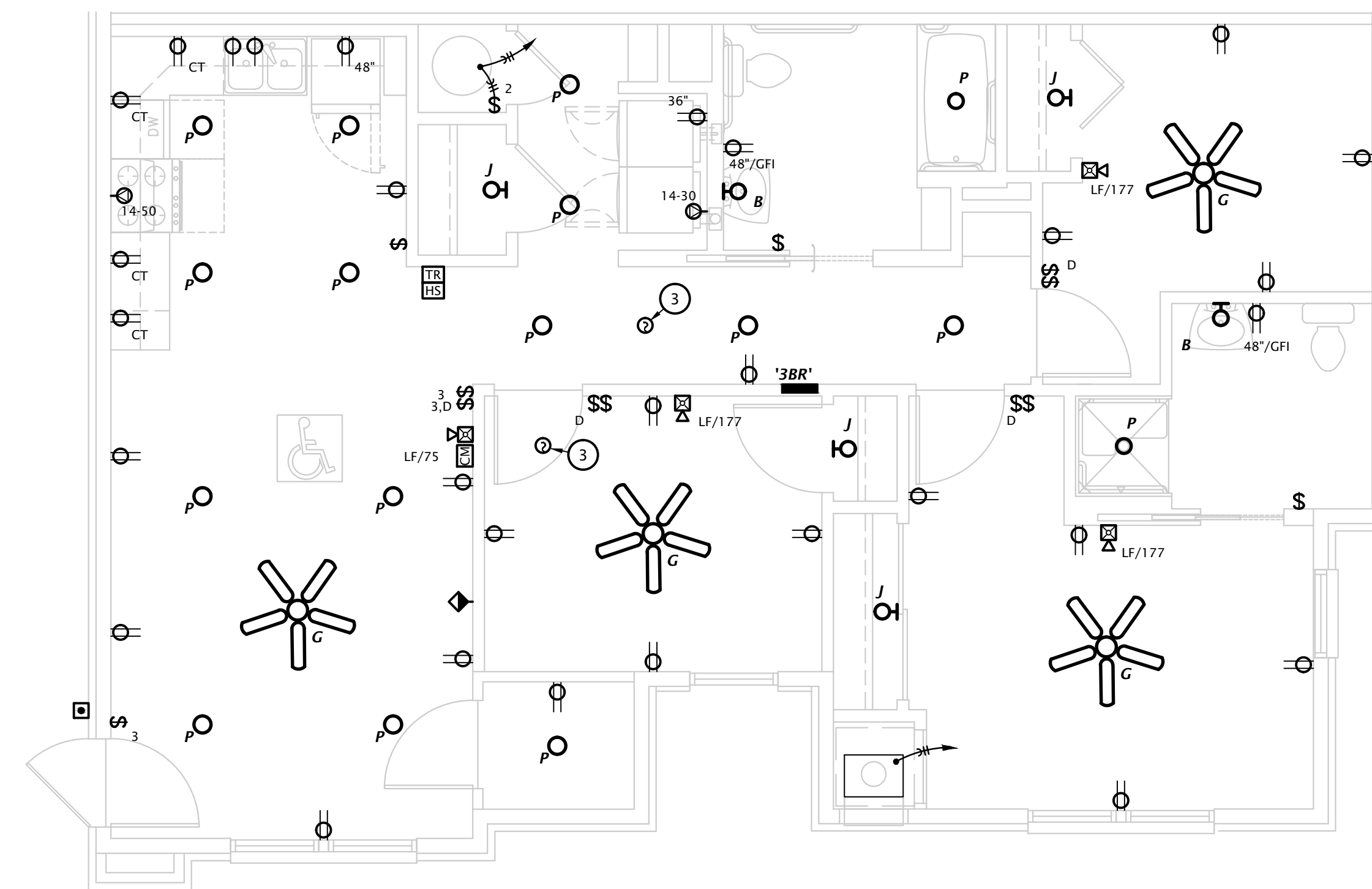
1 2 BEDROOM POWER PLAN
1/4" = 1'-0"



2 3 BEDROOM POWER PLAN
1/4" = 1'-0"



3 2 BEDROOM ACCESSIBLE POWER PLAN
1/4" = 1'-0"



4 3 BEDROOM ACCESSIBLE POWER PLAN
1/4" = 1'-0"

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REVISION:

DATE: 6-14-2024
JOB: 22-3262
SHEET NO.:

APARTMENT LIGHT FIXTURE SCHEDULE

MARK	MANUF.	MODEL NUMBER	LAMP DATA		BALLAST/LED DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
			#	TYPE					
B	SEAGULL	4423003EN3-710	3	9.5W LED	STANDARD	WALL	BURNT SIENNA	3 LAMP VANITY LIGHT	
G	SEAGULL	15030EN-829	2	10W LED	STANDARD	SURFACE	BRONZE	52" DIAMETER CEILING FAN WITH LED LIGHT KIT	
J	HALO	SMD6R-6-930-WH	---	600 LUMEN 10W LED	STANDARD	Wall	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	9
P	HALO	SMD6R-6-930-WH	---	600 LUMEN 10W LED	STANDARD	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	3

GENERAL:

- Fixture/pole assemblies shall be rated for 100mph wind loads. Provide wind dampeners when recommended by the manufacturer.
- All fixtures shall be provided with multi-volt driver capable of operating between 120V-277V
- All exterior fixtures shall be 4000K color temperature
- All interior fixtures shall be 3000K color temperature
- All apartment light fixtures and ceiling fans shall be Energy Star rated

NOTES:

1. Provide fixture/pole assembly with 22' round straight steel pole, bronze to match fixture. Fixture height shall not exceed 25'-0" AFG.
2. Provide wall or ceiling mounted as required
3. Where installed above showers and tubs fixture shall be wet location listed.
4. Fixture shall be U.L. listed for wet locations.
5. Provide fixture dusk to dawn control in accordance with Green Community requirements. See note 16 on sheet E1.1 for more information.
6. Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power.
7. Provide fixture/pole assembly with 10' round straight steel pole, bronze to match fixture. Fixture height shall not exceed 12'-0" AFG.
8. Fixture shall be U.L. listed for damp locations.
9. Ensure fixture complies with 410.16(C)(5).

Designation: HA
Location: EXTERIOR WALL
Voltage: 208/120V-1Ph-3W
Enclosure: NEMA 3R
Mounting: Surface
Manufacturer: Square D 'NQ'
Bus Amps: 100
MCB Amps: MLO
AIC Rating: 10 KAIC
Other: Integral Surge Protection

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	EXTERIOR BUILDING LIGHTS	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	FACP	2
3	WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	RECEPTACLES	4
5	PARKING LOT LIGHTING	2# 10# 10G., 3/4"	20 / 1	20 / 1	2# 10# 10G., 3/4"	FUTURE RADON FANS	6
7	ELECTRIC WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 10# 10G., 3/4"	MONUMENT SIGN LIGHTS	8
9	FIRE SPRINKLER AIR COMPRESSOR	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	EXTERIOR LIGHTING CONTROLS	10
11	WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	TELECOMM	12
13	SPACE	--	--	--	--	SPACE	14
15	SPACE	--	--	--	--	SPACE	16

Designation: HB
Location: EXTERIOR WALL
Voltage: 208/120V-1Ph-3W
Enclosure: NEMA 3R
Mounting: Surface
Manufacturer: Square D 'NQ'
Bus Amps: 100
MCB Amps: MLO
AIC Rating: 10 KAIC
Other: Integral Surge Protection

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	EXTERIOR BUILDING LIGHTS	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	FACP	2
3	WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	RECEPTACLES	4
5	PARKING LOT LIGHTING	2# 10# 10G., 3/4"	20 / 1	20 / 1	2# 10# 10G., 3/4"	FUTURE RADON FANS	6
7	WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 8# 8G., 1"	PARKING LOT LIGHTS	8
9	FIRE SPRINKLER AIR COMPRESSOR	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	EXTERIOR LIGHTING CONTROLS	10
11	WALL HEATER	2# 12# 12G., 1/2"	20 / 1	20 / 1	2# 12# 12G., 1/2"	TELECOMM	12
13	SPACE	--	--	--	--	SPACE	14
15	SPACE	--	--	--	--	SPACE	16

LIGHT FIXTURE SCHEDULE

MARK	MANUF.	MODEL NUMBER	LAMP DATA		BALLAST/LED DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
			#	TYPE					
F	HALO	SMD6R-6-930-WH	---	600 LUMEN 10W LED	STANDARD	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	
H	BEACON	LSQ1-25-4K7-UNV	---	30W LED 3,181 LUMEN	0-10V DIMMING	SURFACE	SELECTED BY ARCHITECT	SQUARE SURFACE MOUNTED ACRYLIC LENS	4,5,6
L1	LITHONIA	WPX2-LED-40K-MVOLT-DBLXD	---	5,896 LUMEN 47W LED	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK	4
L2	LITHONIA	WPX1-LED-P2-40K-MVOLT-DBLXD	---	2,912 LUMEN 24W LED	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK	4
S	LITHONIA	DSX0-LED-P3-40K-T4M-MVOLT	---	6,272 LUMEN 69W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,4

GENERAL:

- Fixture/pole assemblies shall be rated for 100mph wind loads. Provide wind dampeners when recommended by the manufacturer.
- All fixtures shall be provided with multi-volt driver capable of operating between 120V-277V
- All exterior fixtures shall be 4000K color temperature
- All interior fixtures shall be 3000K color temperature
- All apartment light fixtures shall be Energy Star rated

NOTES:

1. Provide fixture/pole assembly with mounting arm and 20' round straight steel pole, black to match fixture.
2. Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power.
3. Provide wall or ceiling mounted as required
4. Fixture shall be U.L. listed for wet locations.
5. Provide with integrally occupancy sensor.
6. Provide with emergency battery backup.

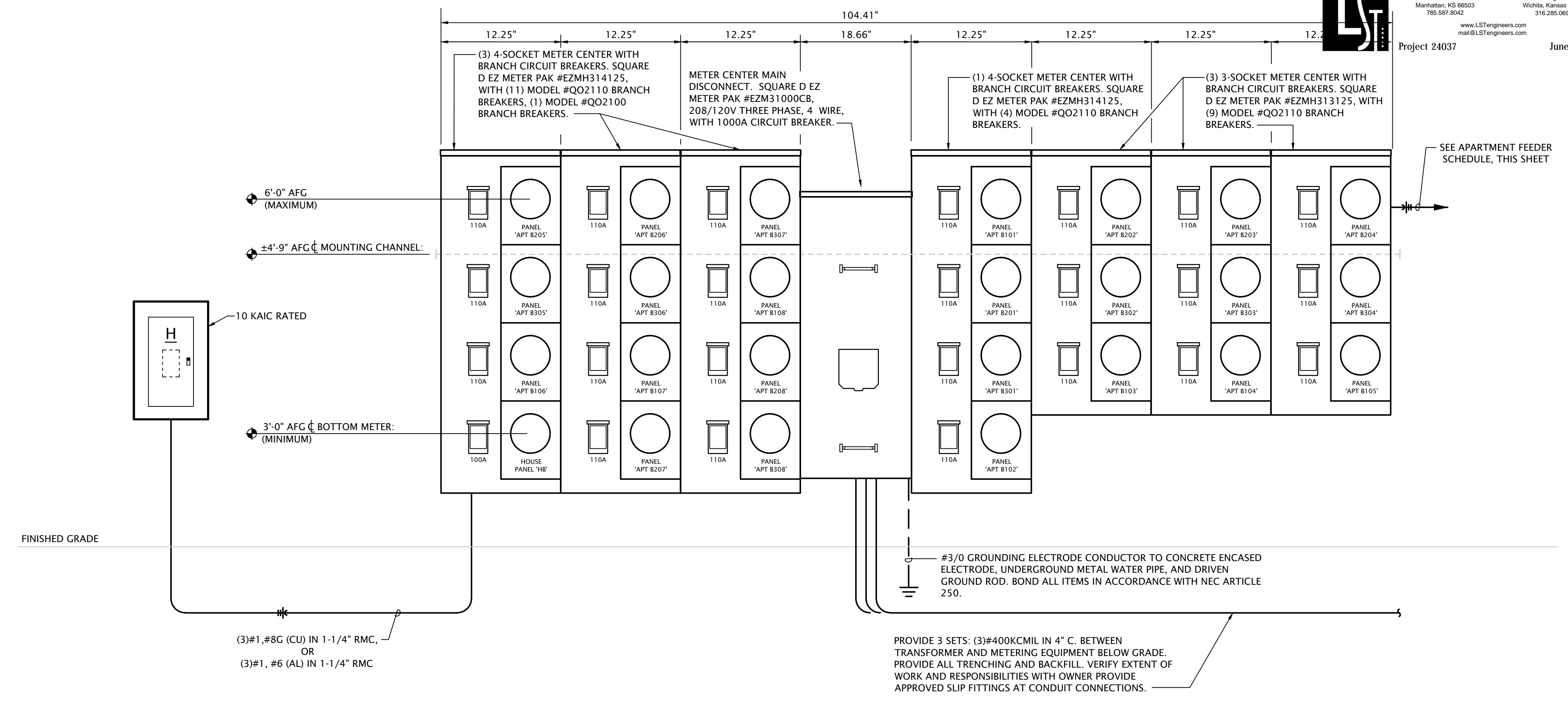
Building B Service Calculation (24 total units)

Area: 23820 SF (Dwelling Units Only)

Feeder & Service Loads per NEC 220.84 Part IV	Connected Load (VA)	Demand Load (VA)
C1 General Loads (220.84 (C)(1))		
a Lighting & Receptacles	3 VA/SF 23820 SF	71,460
C2 Required Circuits (220.84 (C)(2))		
a Laundry Circuit	1,500 VA/Circuit 24 Circuit	36,000
b Kitchen Circuits	1,500 VA/Circuit 48 Circuit	72,000
C3 Nameplate Ratings of Equipment (220.84 (C)(3))		
a1 Microwave	1,000 VA/Circuit 24 ea	24,000
a2 Dishwasher	840 VA/Circuit 24 ea	20,160
a3 Disposal	1175 VA/Circuit 24 ea	28,200
a4 Refrigerator	1200 VA/Circuit 24 ea	28,800
b Electric Range	8,000 VA/Circuit 24 ea	192,000
c Electric Clothes Dryer	5,000 VA/Circuit 24 ea	120,000
d Water Heater	4,500 VA/Circuit 24 ea	108,000
C4 Nameplate Ratings of Motors (220.84 (C)(4))		
VTAC Blower	150 VA/Circuit 24 ea	3,600
Exhaust Fan - Kitchen	20 VA/Circuit 24 ea	480
Exhaust Fan - RR	20 VA/Circuit 48 ea	960
C5 Larger of Heating and A/C load (220.84 (C)(5))		
2BR Electric Heat	6,135 VA/Circuit 12 ea	73,620
3BR Electric Heat	8,180 VA/Circuit 12 ea	98,160
	Connected Load Total	877,440
	Dwelling Unit Demand Load from Table 220.84	35% 307,104
	Building Service NEC Demand Load (VA) Sub-Total	307,104
	Total Apartment Service Demand Load (VA)	307,104
	Panel HA Service Demand Load (VA)	8,072
	Total Building Service Demand Load (Amperes) @ 208/120V-3Ph, 4W	875

Provide 1000A Meter Center

2 ELECTRICAL RISER DIAGRAM - BUILDING B
 No Scale



Building A Service Calculation (16 total units + Clubhouse)

Area: 17190 SF (Dwelling Units Only)

Feeder & Service Loads per NEC 220.84 Part IV	Connected Load (VA)	Demand Load (VA)
C1 General Loads (220.84 (C)(1))		
a Lighting & Receptacles	3 VA/SF 17190 SF	51,570
C2 Required Circuits (220.84 (C)(2))		
a Laundry Circuit	1,500 VA/Circuit 16 Circuit	24,000
b Kitchen Circuits	1,500 VA/Circuit 32 Circuit	48,000
C3 Nameplate Ratings of Equipment (220.84 (C)(3))		
a1 Microwave	1,000 VA/Circuit 16 ea	16,000
a2 Dishwasher	840 VA/Circuit 16 ea	13,440
a3 Disposal	1175 VA/Circuit 16 ea	18,800
a4 Refrigerator	1200 VA/Circuit 16 ea	19,200
b Electric Range	8,000 VA/Circuit 16 ea	128,000
c Electric Clothes Dryer	5,000 VA/Circuit 16 ea	80,000
d Water Heater	4,500 VA/Circuit 16 ea	72,000
C4 Nameplate Ratings of Motors (220.84 (C)(4))		
VTAC Blower	150 VA/Circuit 16 ea	2,400
Exhaust Fan - Kitchen	20 VA/Circuit 16 ea	320
Exhaust Fan - RR	20 VA/Circuit 32 ea	640
C5 Larger of Heating and A/C load (220.84 (C)(5))		
2BR Electric Heat	6,135 VA/Circuit 12 ea	73,620
3BR Electric Heat	8,180 VA/Circuit 4 ea	32,720
	Connected Load Total	580,710
	Dwelling Unit Demand Load from Table 220.84	38% 203,249
	Building Service NEC Demand Load (VA) Sub-Total	203,249
	Total Apartment Service Demand Load (VA)	203,249
	Clubhouse Service Demand Load (VA)	35,338
	Panel HA Service Demand Load (VA)	8,072
	Total Building Service Demand Load (Amperes) @ 208/120V-3Ph, 4W	685

Provide 1000A Meter Center

- NOTES:
- See sheets E1.0 and ME1.1, ME1.2 for meter center locations.
 - Main disconnect section shall be rated for maximum 42,000A peak let through.
 - All conductor sizes are based on copper, U.N.O. Entire installation shall comply with NEC.
 - Coordinate all responsibilities and requirements with utility company and pay associated fees. Contact Information: name? Rocky Mountain Power phone? email?
 - Coordinate final location of meter assemblies with utility company. Provide shop drawings of proposed equipment whether as specified or substituted to utility company for approval.
 - All meter center components shall be NEMA 3R.
 - All dimensions based on Square D equipment, it is the contractor's responsibility to verify the dimensions of substitute equipment and receive approval from utility for substitution.
 - For each meter, provide a permanent brass, copper or aluminum tag identifying the apartment served. Tags shall be securely fastened to the meter base and be stamped with 1/8" letters, minimum.

1 ELECTRICAL RISER DIAGRAM - BUILDING A
 No Scale

