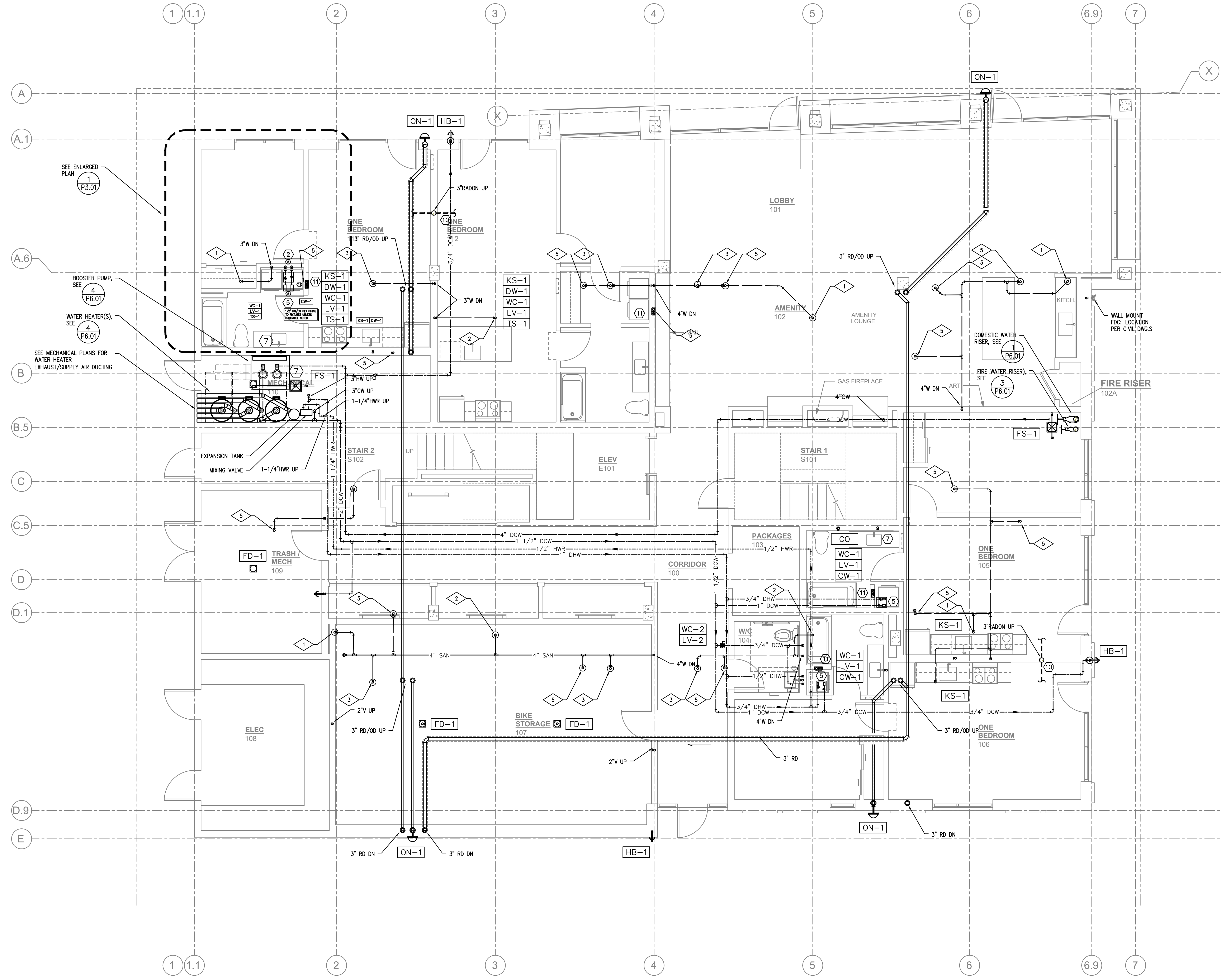

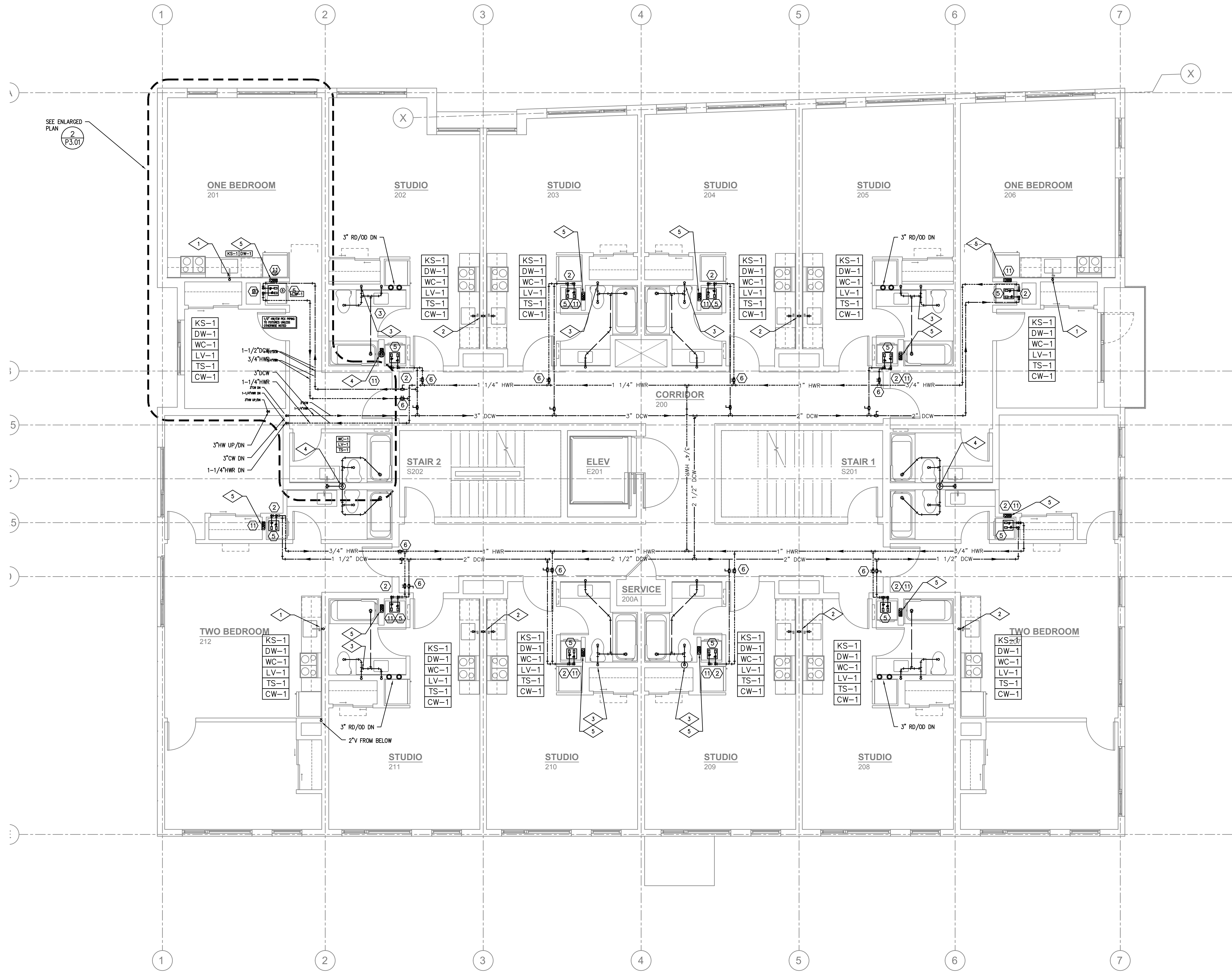
 1 PLUMBING SITE PLAN
P1.00 SCALE: 1/4" = 1'-0"




KEYED NOTES:

- ① - SEE CIVIL FOR CONTINUATION
- ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
- ③ - WET VENT BATHROOM FIXTURE GROUP.
- ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
- ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
- ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
- ⑦ - ROUTE VENT UP AND CONNECT TO 2" OR LARGER VENT RISER OR ROUTE TO ATTIC SPACE.
- ⑧ - COMBINE VENT RISERS BELOW ROOF AND VENT THROUGH ROOF.
- ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
- ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
- ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

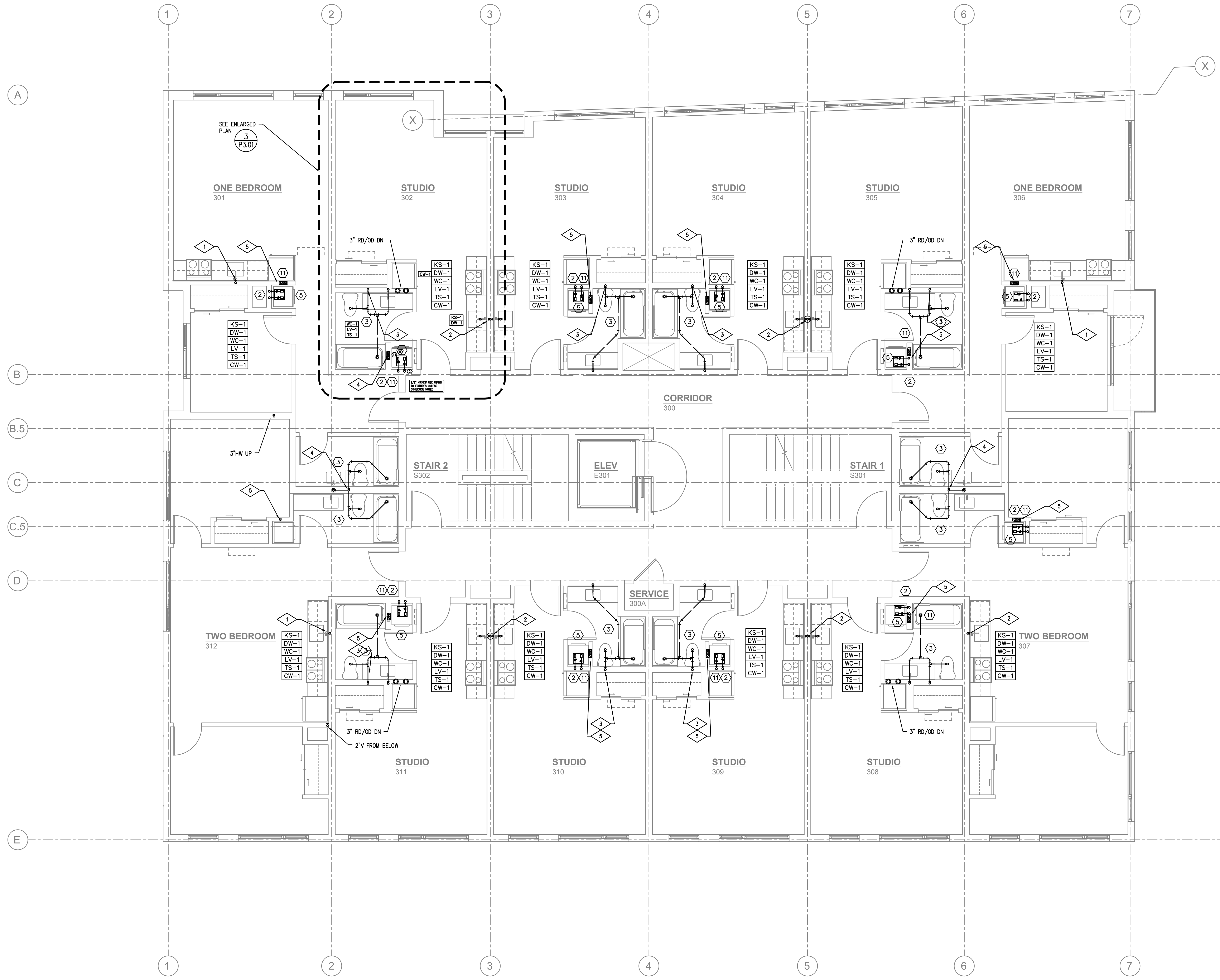
 **1** PLUMBING PLAN LEVEL 1
P2.01 SCALE: 1/4" = 1'-0"



- KEYED NOTES:**
- ① - SEE CIVIL FOR CONTINUATION
 - ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
 - ③ - WET VENT BATHROOM FIXTURE GROUP.
 - ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
 - ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
 - ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
 - ⑦ - ROUTE VENT UP AND CONNECT TO 2" OR LARGER VENT RISER OR ROUTE TO ATTIC SPACE.
 - ⑧ - COMBINE VENT RISERS BELOW ROOF AND VENT THROUGH ROOF.
 - ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
 - ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
 - ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

 **1** PLUMBING PLAN LEVEL 2
P2.02 SCALE: 1/4" = 1'-0"

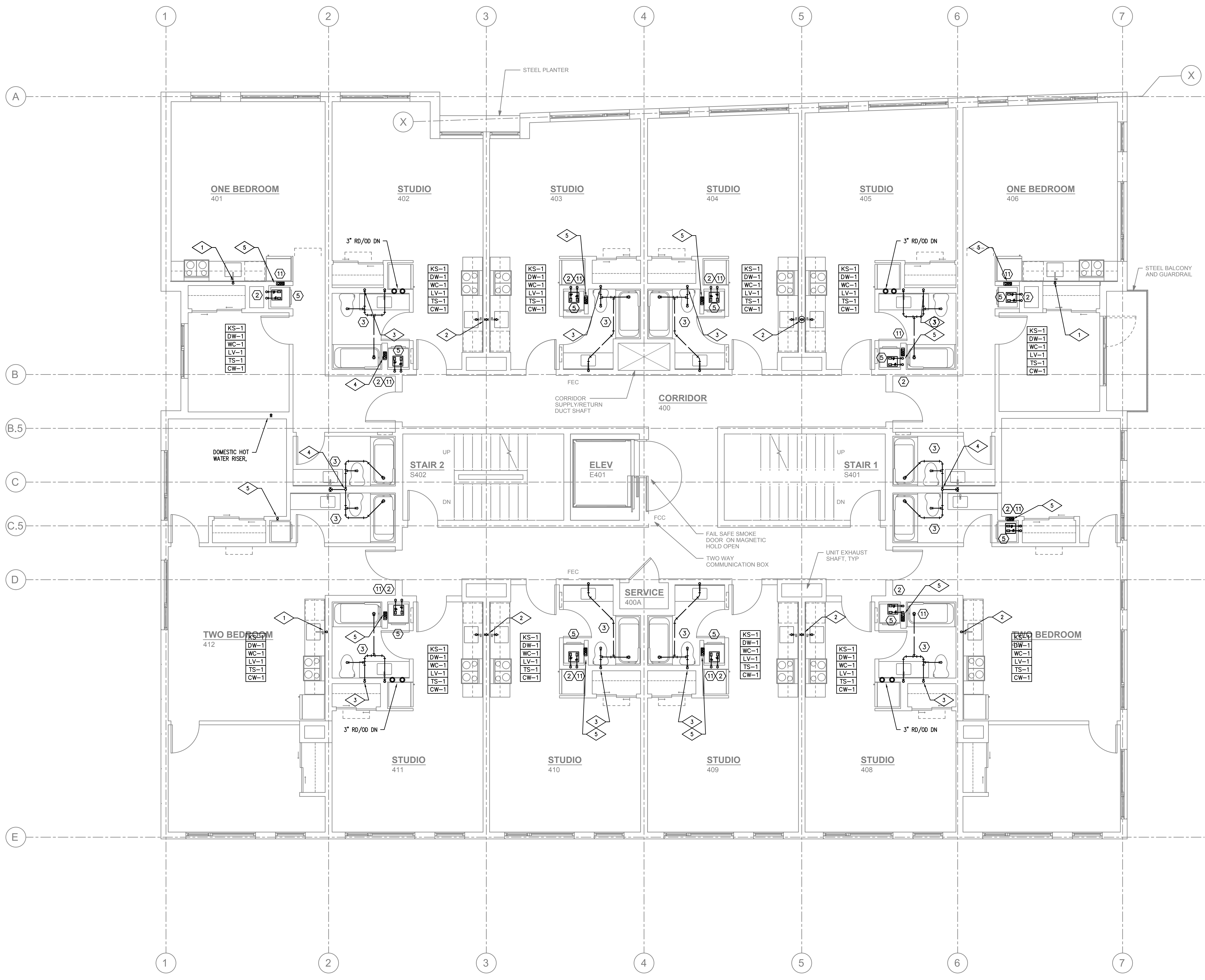
SEE ENLARGED PLAN
2
P.3.01



KEYED NOTES:

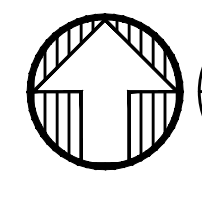
- ① - SEE CIVIL FOR CONTINUATION
- ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
- ③ - WET VENT BATHROOM FIXTURE GROUP.
- ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
- ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
- ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
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- ⑧ - COMBINE VENT RISERS BELOW ROOF AND VENT THROUGH ROOF.
- ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
- ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
- ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

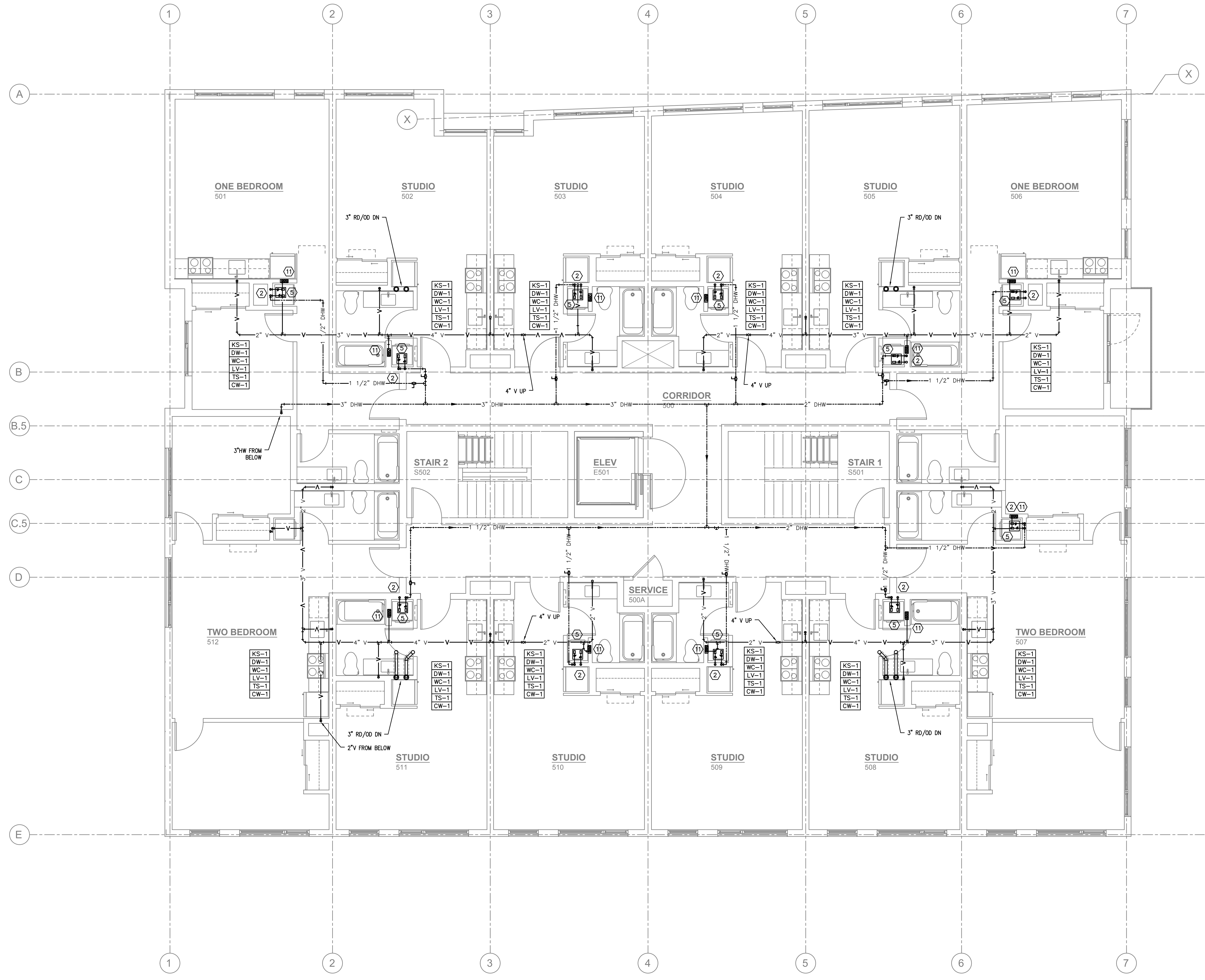
1 PLUMBING PLAN LEVEL 3
P2.03 SCALE: 1/4" = 1'-0"



KEYED NOTES:

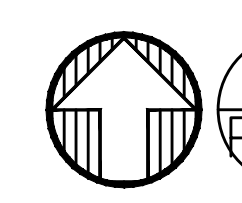
- ① - SEE CIVIL FOR CONTINUATION
- ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
- ③ - WET VENT BATHROOM FIXTURE GROUP.
- ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
- ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
- ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
- ⑦ - ROUTE VENT UP AND CONNECT TO 2" OR LARGER VENT RISER OR ROUTE TO ATTIC SPACE.
- ⑧ - COMBINE VENT RISERS BELOW ROOF AND VENT THROUGH ROOF.
- ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
- ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
- ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

 **1** PLUMBING PLAN LEVEL 4
P2.04 SCALE: 1/4" = 1'-0"



KEYED NOTES:

- ① - SEE CIVIL FOR CONTINUATION
- ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
- ③ - WET VENT BATHROOM FIXTURE GROUP.
- ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
- ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
- ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
- ⑦ - ROUTE VENT UP AND CONNECT TO 2" OR LARGER VENT RISER OR ROUTE TO ATTIC SPACE.
- ⑧ - COMBINE VENT RISERS BELOW ROOF AND VENT THROUGH ROOF.
- ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
- ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
- ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.

 **1** PLUMBING PLAN LEVEL 5
P2.05 SCALE: 1/4" = 1'-0"

CITY STAMP

PROJECT

SE 27th & Division

2636 SE DIVISION ST
PORTLAND, OR 97202

DRAWING TITLE
**PLUMBING
ROOF PLAN**

REVISIONS



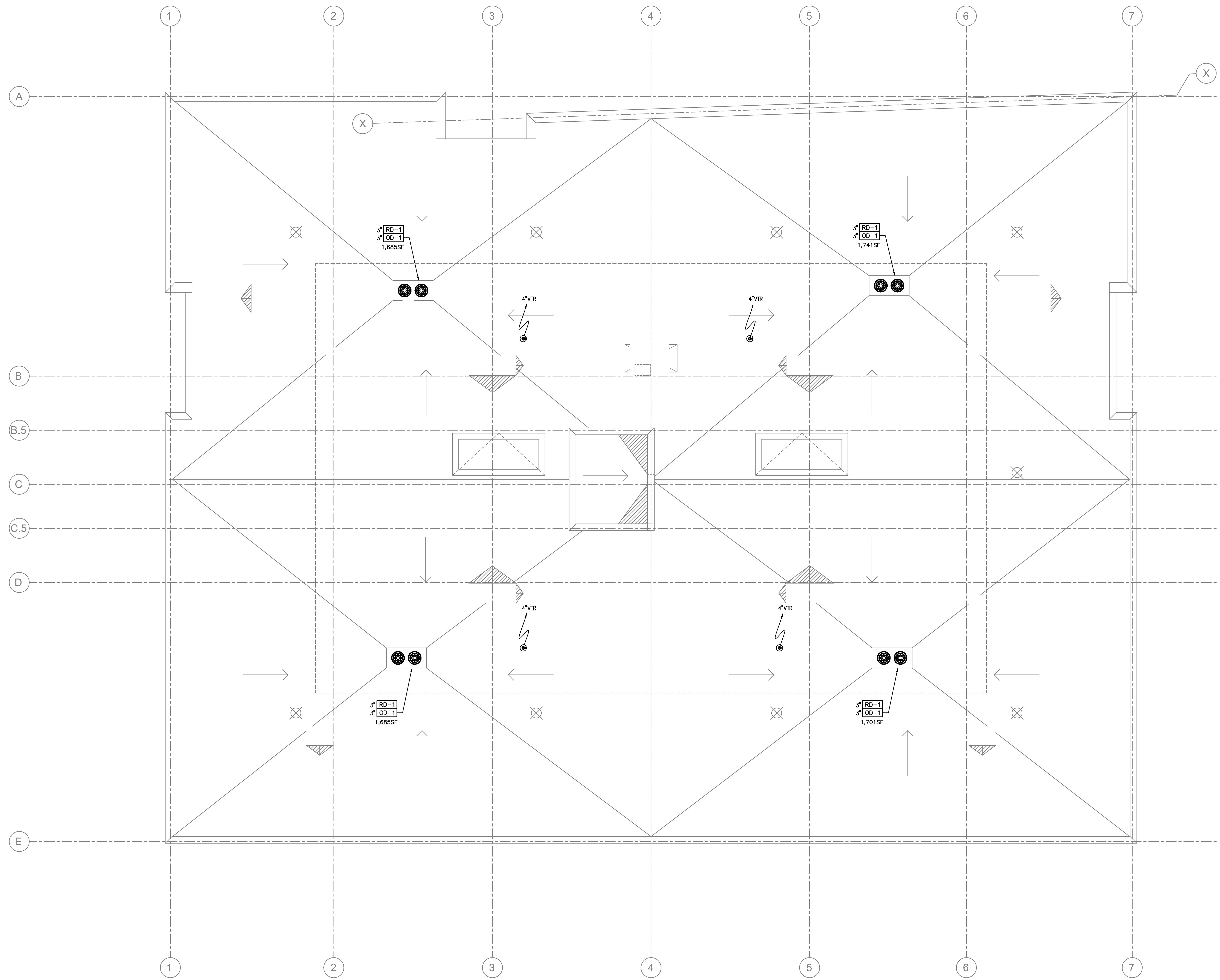
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DATE: DECEMBER 17, 2021
JOB NO.: 21.10

DRAWING NO.

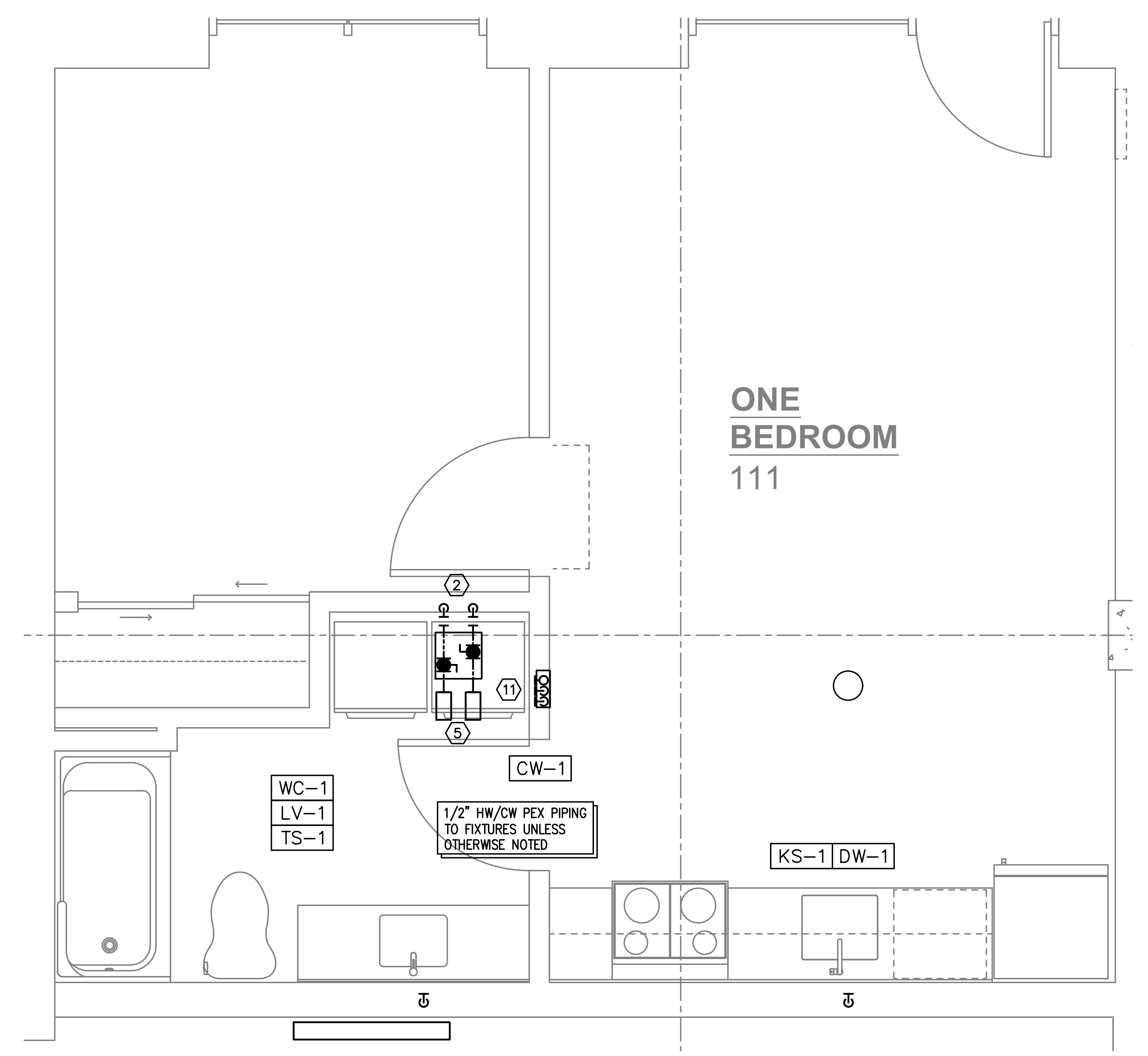
P2.06

PERMIT



GENERAL NOTES

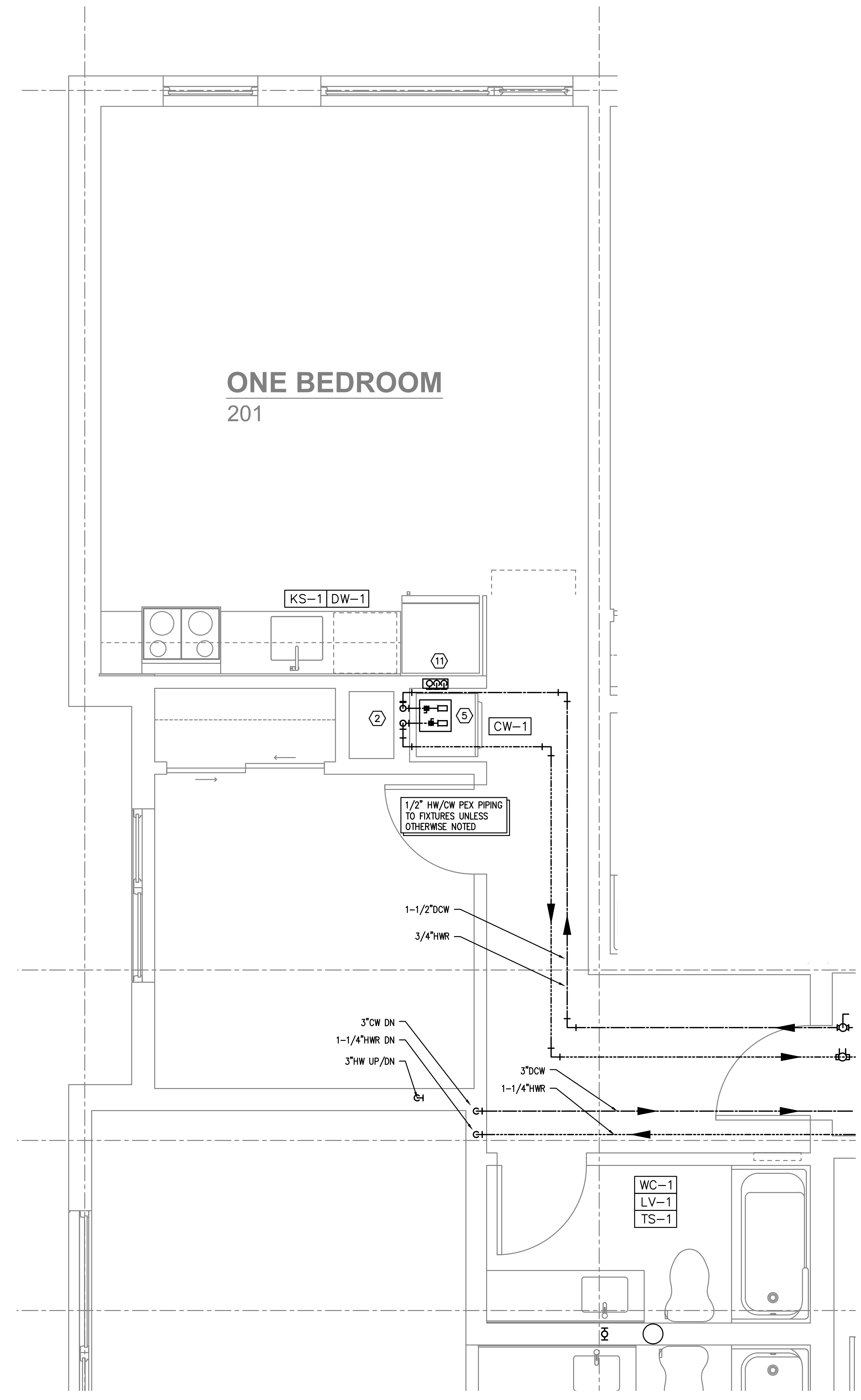
1. WORK SHALL COMPLY WITH CURRENT OREGON SPECIALTY CODE.
2. COORDINATE INSTALLATION WITH OTHER TRADES.
3. KEEP ALL ROOFTOP EQUIPMENT 10 FEET FROM EDGE OF ROOF, MINIMUM.
4. MAINTAIN 10 FEET CLEARANCE BETWEEN ALL MECHANICAL AIR INTAKES AND PLUMBING AND RADON VENTS



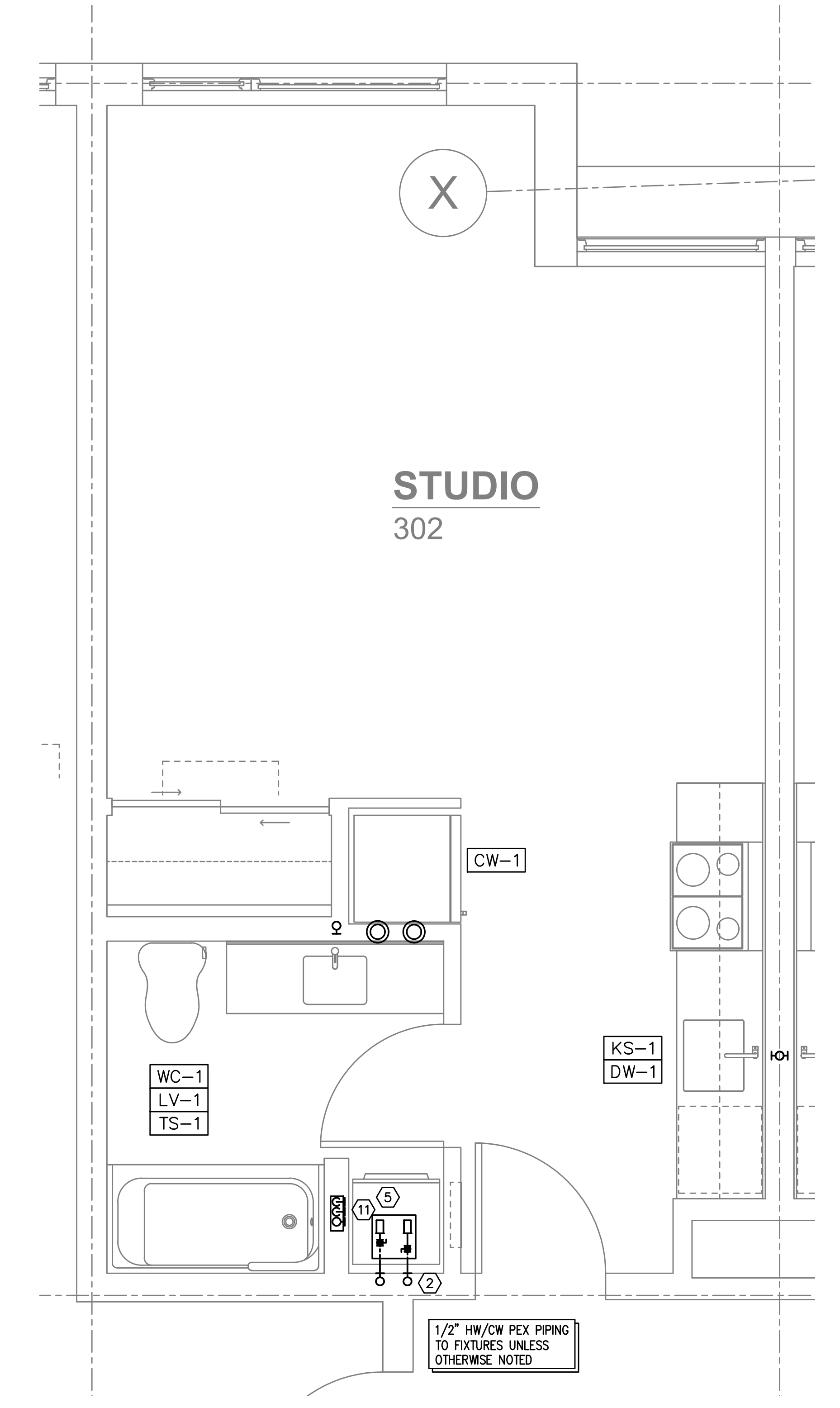
1 PLUMBING ENLARGED PLAN
P3.01 SCALE: 1/2" = 1'-0"

KEYED NOTES:

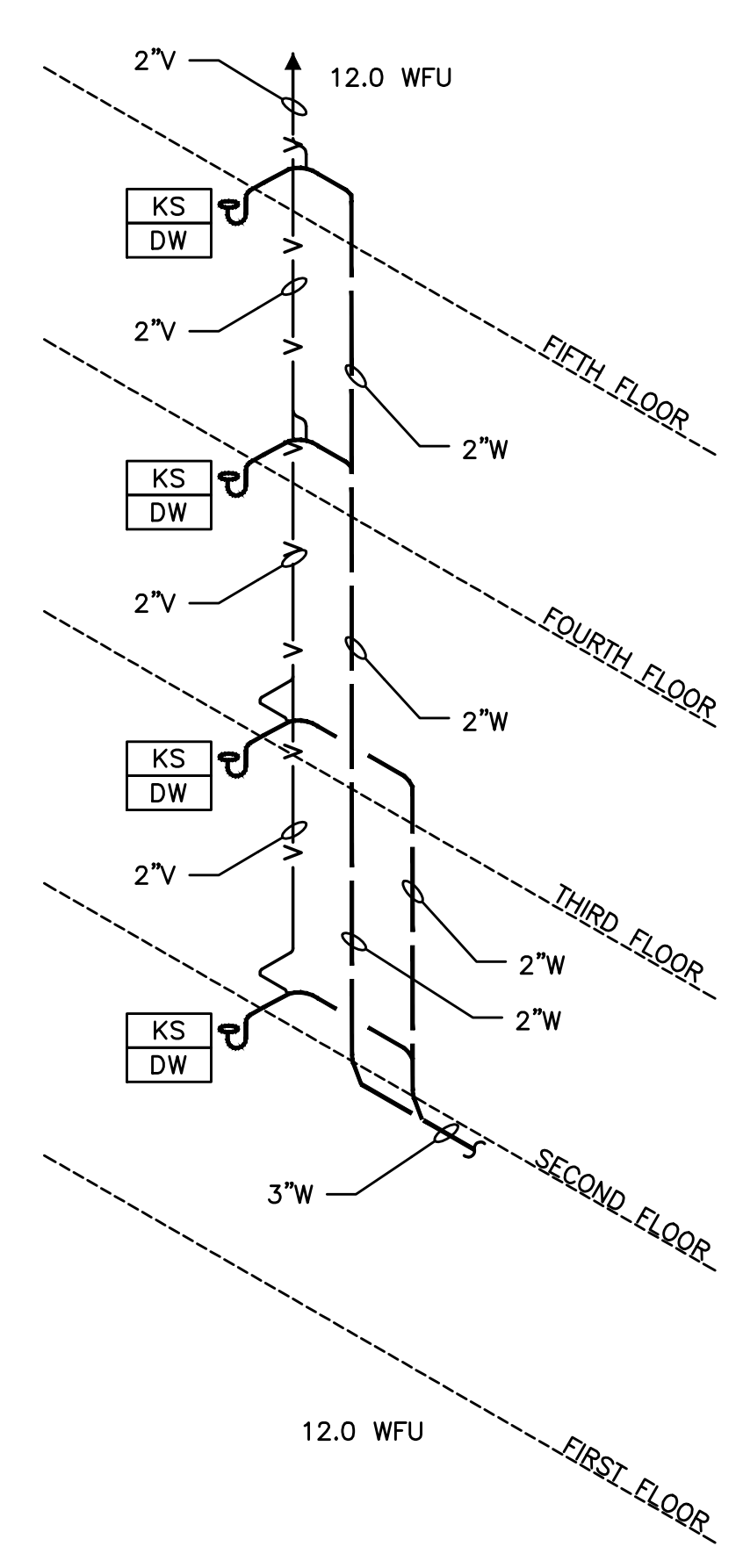
- ① - SEE CIVIL FOR CONTINUATION
- ② - SEE TYPICAL DOMESTIC SUPPLY RISER DIAGRAM 2/P6.01.
- ③ - WET VENT BATHROOM FIXTURE GROUP.
- ④ - OFFSET PIPING AS REQUIRED BELOW SLAB/IN JOIST SPACE.
- ⑤ - SEE UNIT DISTRIBUTION DETAIL 5/P6.01. PROVIDE ACCESS PANEL W/ UNIT SHUT-OFFS, TO BE LOCATED IN CLOSET OR BATHROOM CEILING.
- ⑥ - BALANCING VALVE SET TO 0.5 GPM. PROVIDE ACCESS PANEL AS REQ'D.
- ⑦ - ROUTE VENT UP AND CONNECT TO 2" OR LARGER VENT RISER OR ROUTE TO ATTIC SPACE.
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- ⑨ - SEE ISLAND SINK AND PENINSULA SINK DETAIL(S) 5/P6.02 & 6/P6.02.
- ⑩ - ROUTE RADON PIPING UP TO ABOVE ROOF. SEE RADON PIPING DETAIL 8/P6.02.
- ⑪ - ROUTE 3/4" CONDENSATE DRAINS TO WASHER BOX IN ASSOCIATED UNIT. SEE MECHANICAL PLANS FOR EQUIPMENT LOCATIONS.



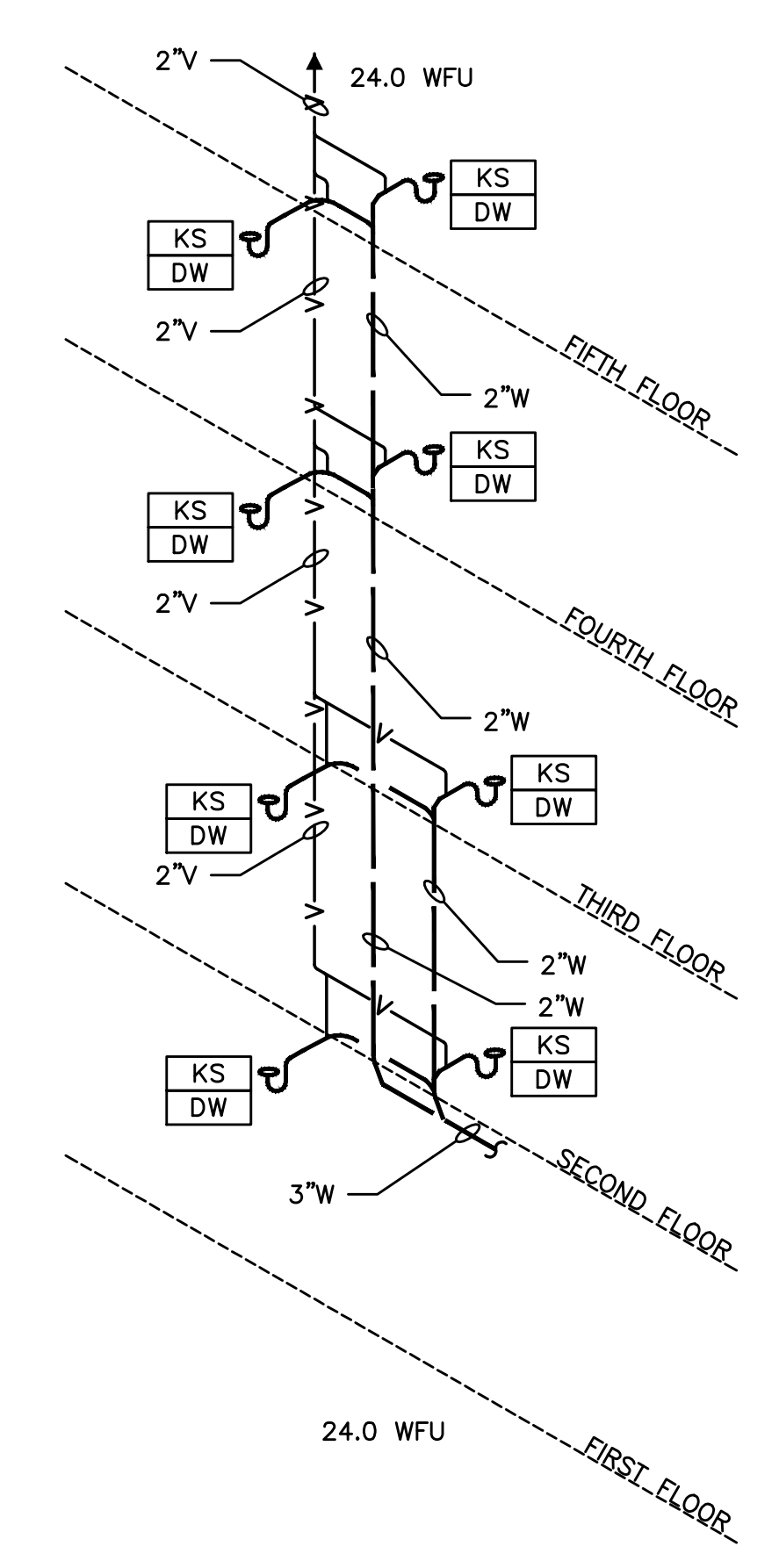
2 PLUMBING ENLARGED PLAN
P3.01 SCALE: 1/2" = 1'-0"



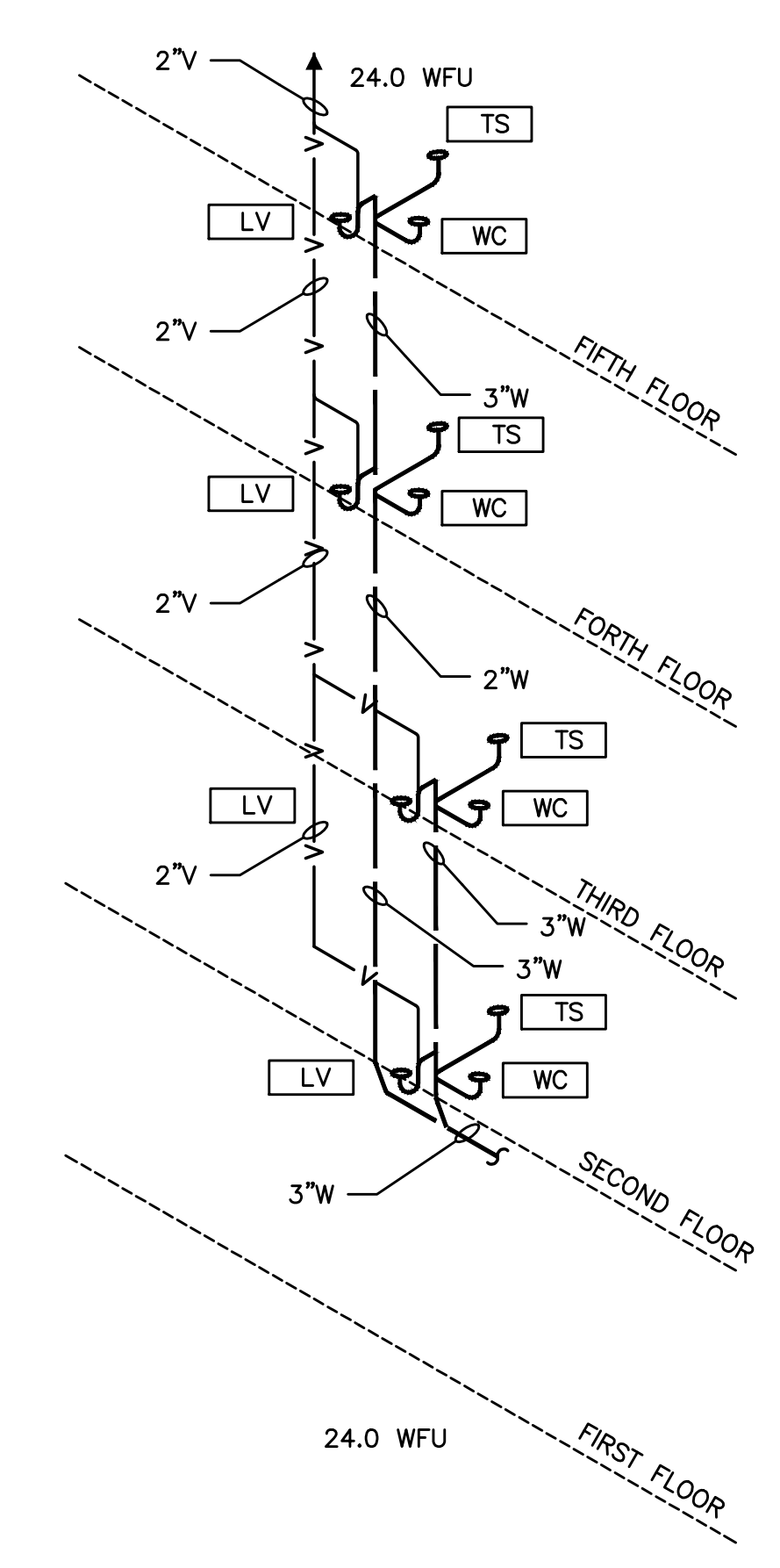
3 PLUMBING ENLARGED PLAN
P3.01 SCALE: 1/2" = 1'-0"



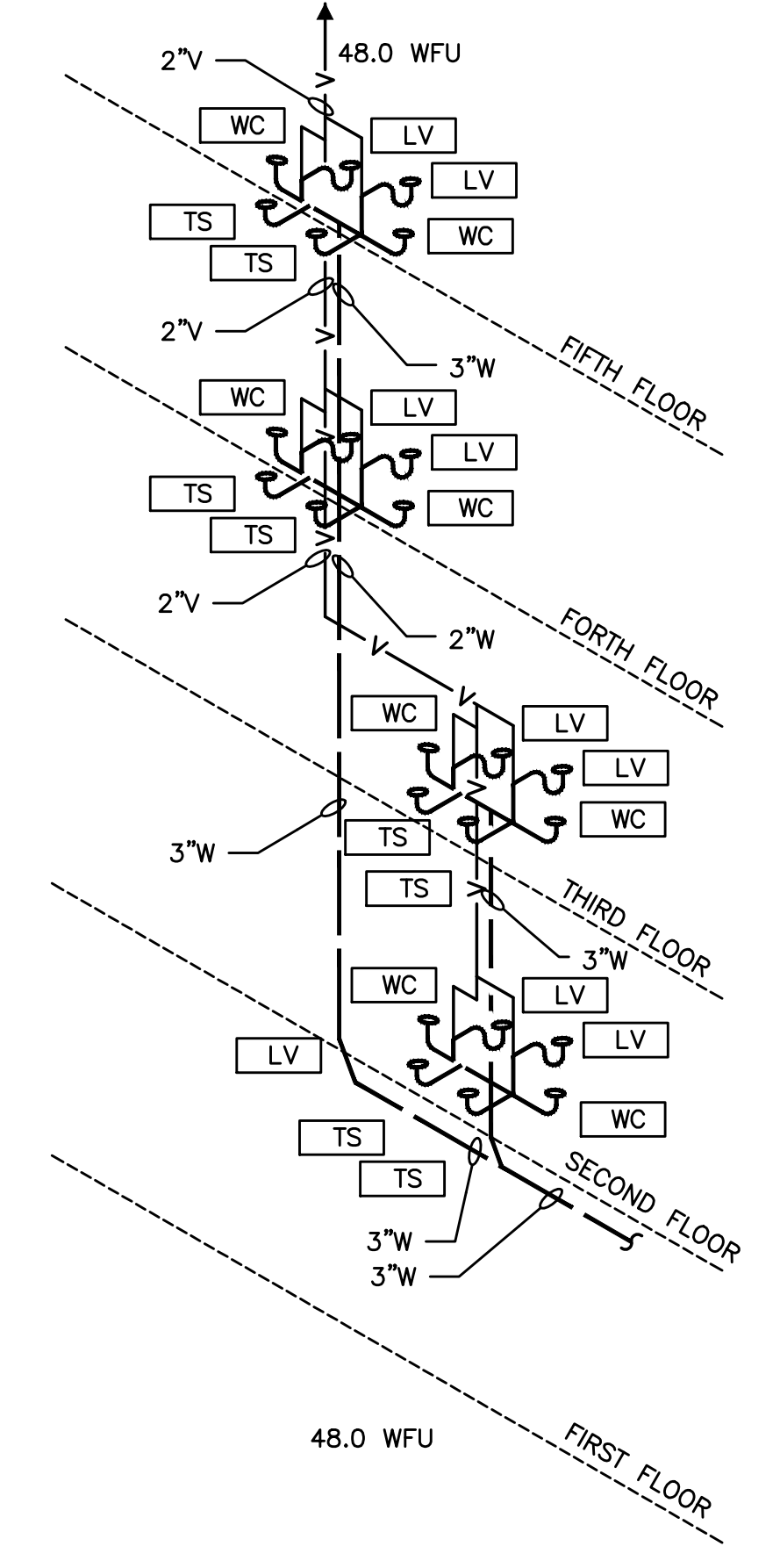
1 RISER "1" TYPICAL
P4.01 NO SCALE
KS,DW = 3.0DFU



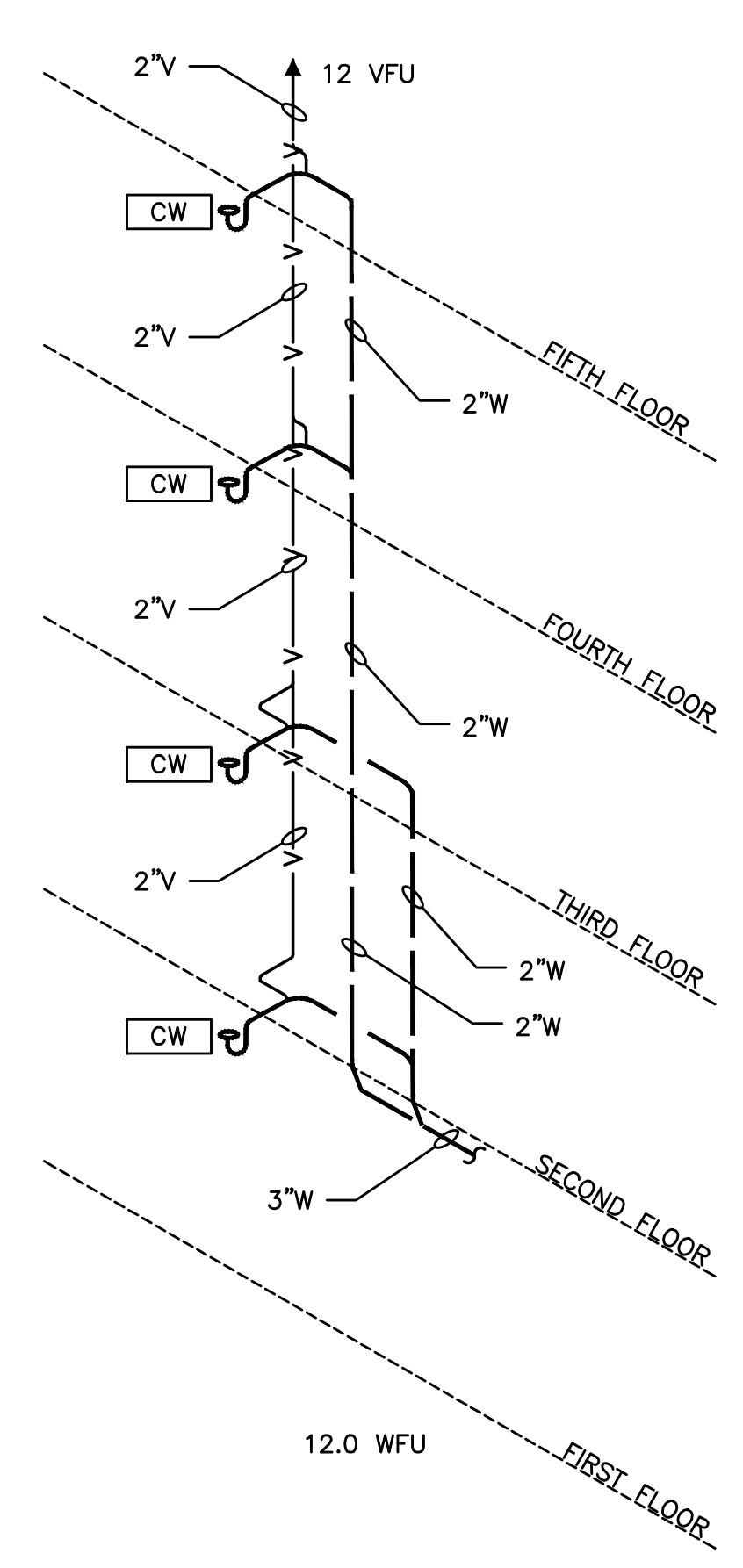
2 RISER "2" TYPICAL
P4.01 NO SCALE
KS,DW=3.0DFU



3 RISER "3" TYPICAL
P4.01 NO SCALE
WC,TS,LV=6.0DFU



4 RISER "4" TYPICAL
P4.01 NO SCALE
WC,TS,LV=6.0DFU



5 RISER "5" TYPICAL
P4.01 NO SCALE
KS,DW = 3.0DFU

GENERAL NOTES:

DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE.
EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES

HEAT TRACE (FREEZE PROTECTION) ALL PIPING SUBJECTED TO FREEZING CONDITIONS. ALL HEAT TRACED PIPE TO BE INSULATED.

HEAT TRACE WASTE TRAPS, INSULATE WASTE PIPING EXPOSED TO FREEZING CONDITIONS

- ROUTE ALL HVAC UNIT CONDENSATES DRAINS TO AN APPROVED LOCATION (OPTIONS LISTED BELOW)
- ROUTE ALL CONDENSATES DOWN IN WALLS IN COMMON DRAIN SYSTEM AND ROUTE TO HUB DRAINS OR MOP SINKS - CONTRACTOR TO SIZE DRAIN SYSTEM BASED ON NUMBER OF CONNECTED UNITS.
 - PROVIDE CONDENSATE PUMPS ON ALL UNITS THAT ARE NOT GRAVITY DRAINED.

ROUTE VENTS FROM FLOOR DRAINS/SINKS BELOW SLAB AND UP ON/IN A WALL TO VENT STACKS ABOVE. (ROUTE INDIVIDUAL VENTS UNTIL ABOVE FLOOD LINE OF FIXTURE).



Commercial Gas Water Heaters

CYCLONE® Mxi MODULATING MODULATING BURNER ADVANCES THE CYCLONE TO HIGHER LEVELS OF EFFICIENCY

The full line of A. O. Smith Cyclone Mxi condensing water heaters has been designed to provide years of dependable service and feature industry leading technology. Models are available from 120,000 to 500,000 Btu/h and all deliver thermal efficiencies of 95% and higher. The unique helical coil heat exchanger limits weld joints for optimal service life while maximizing heat transfer.

- Cyclone is the industry leader in high efficiency commercial water heating. The current Mxi modulating models adjust firing rate to the specific demand further increasing efficiency and money savings.
- Powered anodes are non-sacrificial
- Automatically adjusts output needed to properly protect the tank
- Exclusive A. O. Smith designed color touch display control system
- Provides detailed water heater status information
- Precise temperature control adjustable from 90 to 180 degrees
- Built-in diagnostics
- Run history information

- **Cyclone Mxi models manufactured March 1, 2018 to present come standard with iCOMM Wi-Fi connectivity onboard. Remotely monitor and adjust the water heater via the A. O. Smith app. No charge connectivity using Wi-Fi or Ethernet connection.
- Intelligent Demand Response (IDR) feature senses large water draws and automatically adjusts the differential setpoint. This feature increases the hot water available when it is needed the most.

- **SUBMERGED COMBUSTION CHAMBER, WITH HELICAL HEAT EXCHANGER COIL**
 - Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber
 - Direct spark ignition
 - Spiral heat exchanger keeps hot burner gases swirling, uses centrifugal force to maximize efficiency of heat transfer to water in tank
 - Spiral heat exchanger reduces lime scale from forming on water-side surfaces, which maintains energy efficiency over time

- **POWERED ANODES STANDARD ON ALL MODELS**
 - Provides long-lasting tank protection in varying water conditions



BTH-120(A) THROUGH BTH-500(A)
MODEL SHOWN:
BTH-199(A) SERIES 300/301



Commercial Gas Water Heaters

OTHER FEATURES:

- **SPACE-SAVING DESIGN FOR INSTALLATION FLEXIBILITY**
 - Easy-to-remove top cover for convenient access to serviceable parts
 - 0" installation clearances on sides and rear, 1-1/2" installation clearance on top
 - Handhole cleanout allows easy access to tank interior for cleaning
 - 0" clearance to combustibles, approved for installation on combustible floors

CODES AND STANDARDS

- CSA certified and ASME rated T&P relief valve
- Maximum hydrostatic working pressure: 160 psi
- All models are design certified by Underwriters Laboratories (UL), Inc., to ANSI Z21.10.3 - CSA 4.2 Standards
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1
- Design Certified by Underwriters Laboratories to NSF standard 5 for 180°F (82°C) water
- Complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for ultra low-NOx emissions
- ASME tank construction optional on 120-500 model sizes

VENT REQUIREMENTS FOR BTH 120(A) - 250(A)

Number of 90° Elbows Installed	3 inch Pipe		4 inch Pipe	
	Maximum Feet (Meters)	Maximum Feet (Meters)	Maximum Feet (Meters)	Maximum Feet (Meters)
One (1)	45 feet (13.7 meters)	115 feet (35 meters)	60 feet (18.3 meters)	110 feet (33.5 meters)
Two (2)	40 feet (12.2 meters)	110 feet (33.5 meters)	55 feet (16.8 meters)	105 feet (32 meters)
Three (3)	35 feet (10.7 meters)	105 feet (32 meters)	50 feet (15.2 meters)	100 feet (30.5 meters)
Four (4)	30 feet (9.1 meters)	100 feet (30.5 meters)	45 feet (13.7 meters)	95 feet (29 meters)
Five (5)	NA	95 feet (29 meters)	40 feet (12.2 meters)	90 feet (27.4 meters)
Six (6)	NA	90 feet (27.4 meters)	NA	NA

VENT REQUIREMENTS FOR BTH 300(A) - 500(A)

Number of 90° Elbows Installed	4 inch Pipe		6 inch Pipe	
	Maximum Feet (Meters)	Maximum Feet (Meters)	Maximum Feet (Meters)	Maximum Feet (Meters)
One (1)	65 feet (19.8 meters)	115 feet (35 meters)	80 feet (24.4 meters)	110 feet (33.5 meters)
Two (2)	60 feet (18.2 meters)	110 feet (33.5 meters)	75 feet (22.9 meters)	105 feet (32 meters)
Three (3)	55 feet (16.8 meters)	105 feet (32 meters)	70 feet (21.3 meters)	100 feet (30.5 meters)
Four (4)	50 feet (15.2 meters)	100 feet (30.5 meters)	65 feet (19.8 meters)	95 feet (29 meters)
Five (5)	45 feet (13.7 meters)	95 feet (29 meters)	60 feet (18.2 meters)	90 feet (27.4 meters)
Six (6)	40 feet (12.2 meters)	90 feet (27.4 meters)	55 feet (16.8 meters)	85 feet (25.9 meters)

GAS PRESSURE REQUIREMENTS

Model Number	Manifold Pressure		Minimum Supply Pressure		Maximum Supply Pressure	
	Natural Gas	Propane Gas	Natural Gas	Propane Gas	Natural Gas	Propane Gas
BTH-120(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	3.5" W.C. (1.10 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-150(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	3.5" W.C. (1.10 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-199(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	3.5" W.C. (1.10 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-250(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	3.5" W.C. (1.10 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-300(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	4.8" W.C. (1.19 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-400(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	4.8" W.C. (1.19 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)
BTH-500(A)	0" W.C. (0 kPa)	0" W.C. (0 kPa)	4.8" W.C. (1.19 kPa)	8.5" W.C. (2.12 kPa)	14" W.C. (3.49 kPa)	14" W.C. (3.49 kPa)

depending on the installed equipment length, and/or the number of appliances connected, the supply gas for site may need to be increased beyond the minimum required size.



Submittal Data Sheet S-NV-300-LF

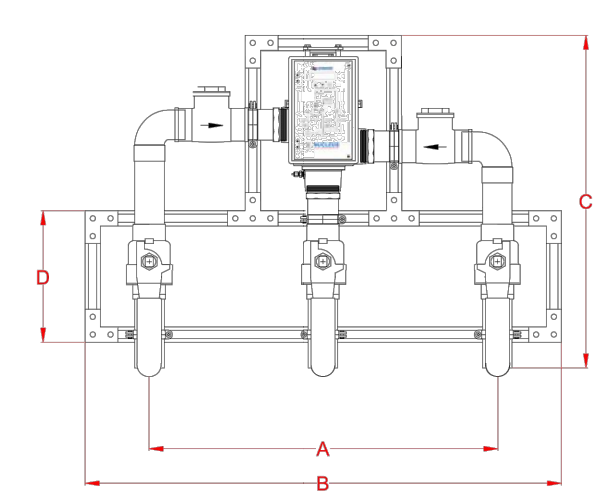
October 22, 2018

NV-300-LF

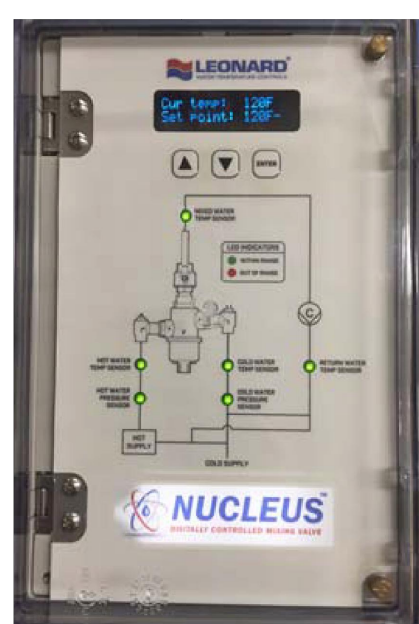
- Digital Mixing Valve with 3" inlet ball and check valves, 3" outlet with ball valve and integral RTD sensor
- 3" inlets, 3" outlet (76.2mm X 76.2mm)
- 0.25 GPM** (0.95 l/min) minimum flow capacity
- Maximum operating pressure: 200 PSIG (13.79 kPa)
- Controls water temperature to ± 2°F in accordance with ASSE 1017
- Controls water temperature to ± 2°F at the NV-300-LF during times of low no system demand
- Automatic Hot/Cold Water shutoff upon cold/hot water inlet supply failure
- User programmable for on-site configuration, high-temperature sanitization mode, and high/low temperature alarm
- User adjustable settings at the controller or remotely through a Building Automation System/Building Management System
- User programmable set point range between 65°F and 180°F
- Displays outlet temperature with options to display additional temperature points, pressure, and flow
- UL Listed 120V plug in power supply with 6' cord
- Factory assembled and tested

This product is compliant with Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

**NOTE: The valve will maintain temperature with 0.25 GPM flow from the domestic hot water loop when properly installed near the hot water source with a continuously operating recirculation pump.

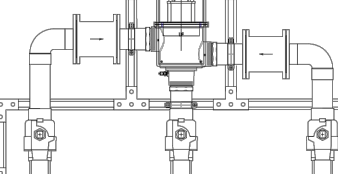


A = 3'-1 1/2" ± 1/2" B = 4'-2 1/2" ± 1/2" C = 2'-11 1/4" ± 1/2" D = 1'-2 1/4" ± 1/2"



NV-300-LF-IF-RTS

*RTS shipped loose



NV-300-LF-CUPC

SEE PAGE 3 FOR COMPLETE LIST OF

Product is non-cancelable and non-refundable from date from order with factory. Signed submittal required with purchase order.



1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: http://www.leonardvalve.com

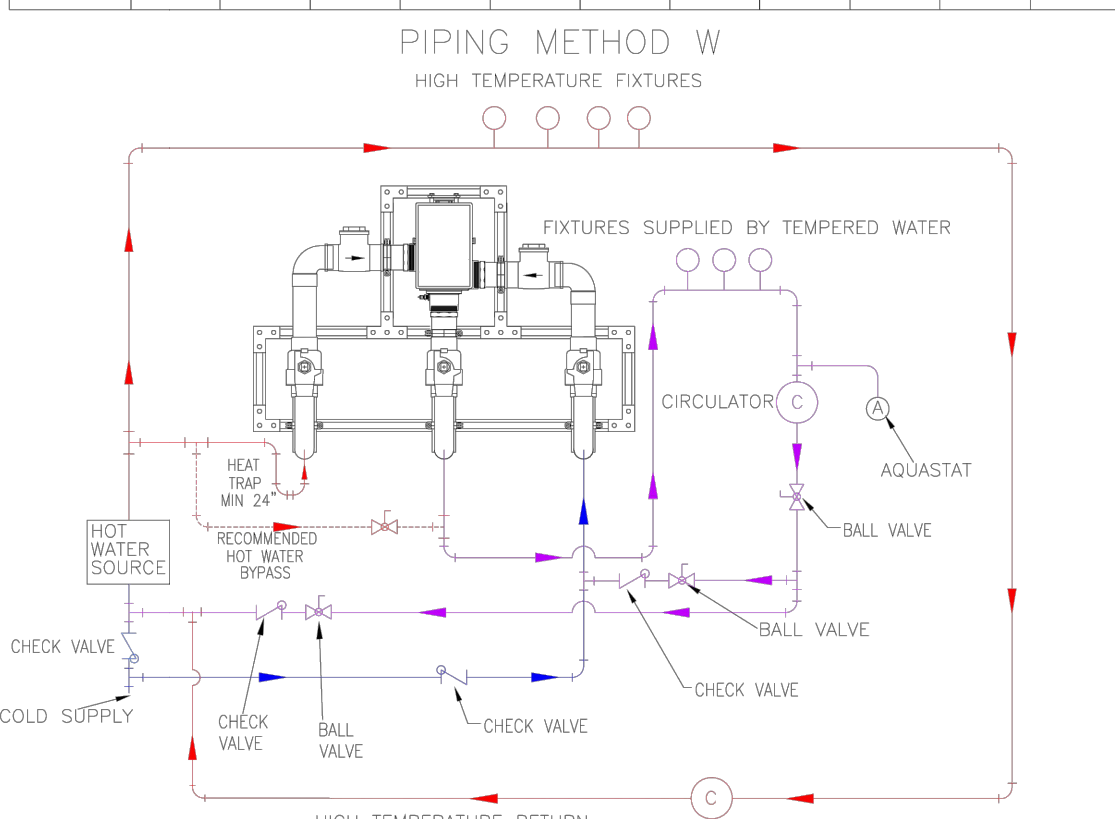
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

Valve assembly is ASSE 1017 Certified

Valve assembly is cUPC Certified with CUPC Option

Valve electronics are UL Certified

MINIMUM FLOW (GPM) (l/min)	PRESSURE DROP										
	5	10	15	20	25	30	35	40	45	50	PSI
0.25**	97	135	163	191	213	235	262	288	296	303	GPM
(0.95)**	366	510	616	722	805	888	990	1089	1119	1145	l/min



NOTE: Flow rates will vary depending on existing field conditions. Leonard Valve Company always recommends using CASPAK® sizing software for proper valve sizing and model number applications.
CAUTION: All domestic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.

Engineer's Approval: Job #, Arch/Eng, Contractor

Note: The models shown represent Leonard Products which are believed to be equivalent in type and function to items specified. Leonard Valve Company is not responsible for errors or omissions due to differences in interpretation of information provided.

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DRAWING TITLE PLUMBING DETAILS

REVISIONS



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