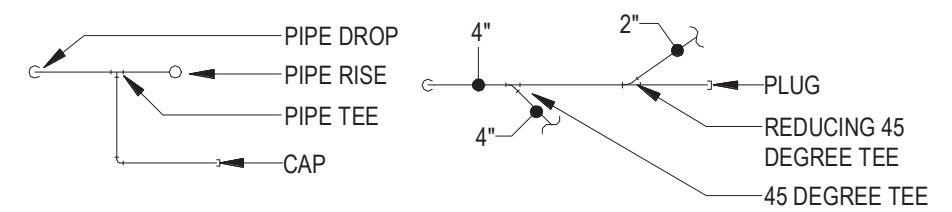


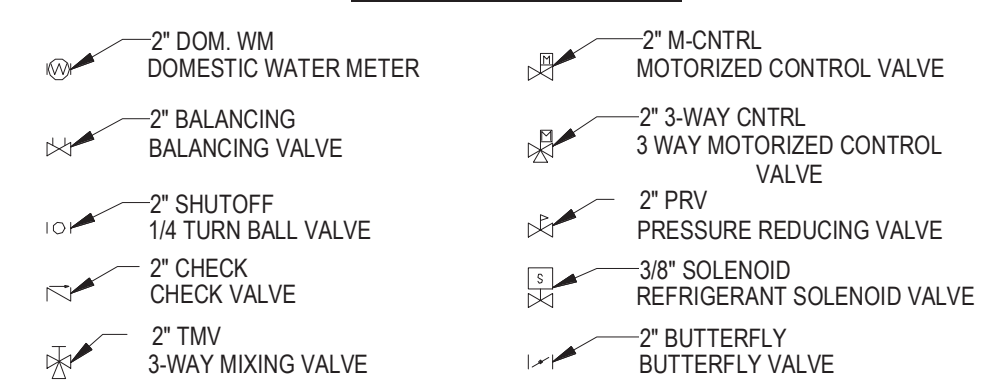
PLUMBING ABBREVIATIONS

Table of plumbing abbreviations including symbols for round, above, air conditioning, area drain, addendum, above finished floor, annual fuel utilization efficiency, alternate, access panel, architect/architectural, below finished floor, below, british thermal units, british thermal units per hour, capacity, catch basin, cubic feet per minute, ceiling, clean out, cold water, degree, dry bulb, diameter, down, distilled water, each, entering air temperature, electrical equipment, electric water cooler, entering water temperature, exhaust air, exist, degrees Fahrenheit, floor clean out, floor drain, fire damper, fire department valve, floor, fuel oil, fuel oil vent, fuel oil return, fuel oil supply, feet per minute, floor sink, foot/feet, fin tube radiation, gallon, general contractor, gallons per minute, grease waste, hose bib, horse power, heating, heater, hot water, hydrant, indirect, inch, invert, lb/hr, pounds per hour, leaving air temperature, low pressure, liquefied petroleum gas, louver, leaving water temperature, mixed air, maximum, one thousand btu per hour, one thousand cubic feet, motorized damper, mechanical, manufacturer, minimum, miscellaneous, motor, make-up air, noise criteria, normally closed, not in contract, number, normally open, not to scale, oxygen, outside air, overslow roof drain, pressure drop, post indicator valve, plumbing pressure, pressure reducing valve, pounds per square inch, pounds per square inch gauge, power, duct riser, return air, radant ceiling panel, roof drain, recessed, reducer, relative humidity, relief air, room, revolutions per minute, rain water, square foot, supply air, sanitary, square foot, smoke damper, surface mount, standpipe, static pressure, steam, thermostat, temperature drop, trench drain, temperature, typical, underground, vacuum, vent, variable air volume, ventilation, vent through roof, waste, wet bulb, wall clean out, wall hydrant.

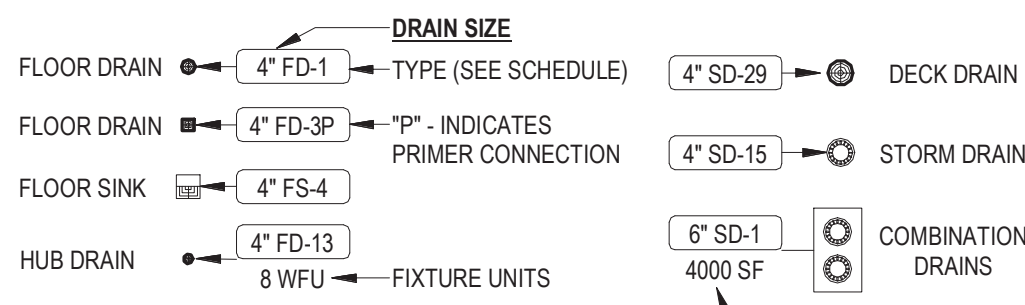
PIPE TAGS



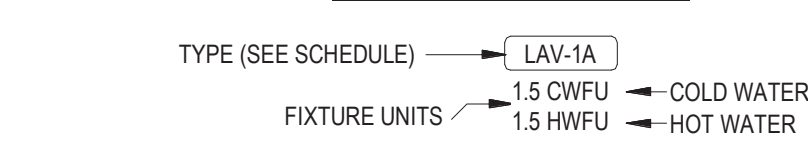
PIPE ACCESSORY TAGS



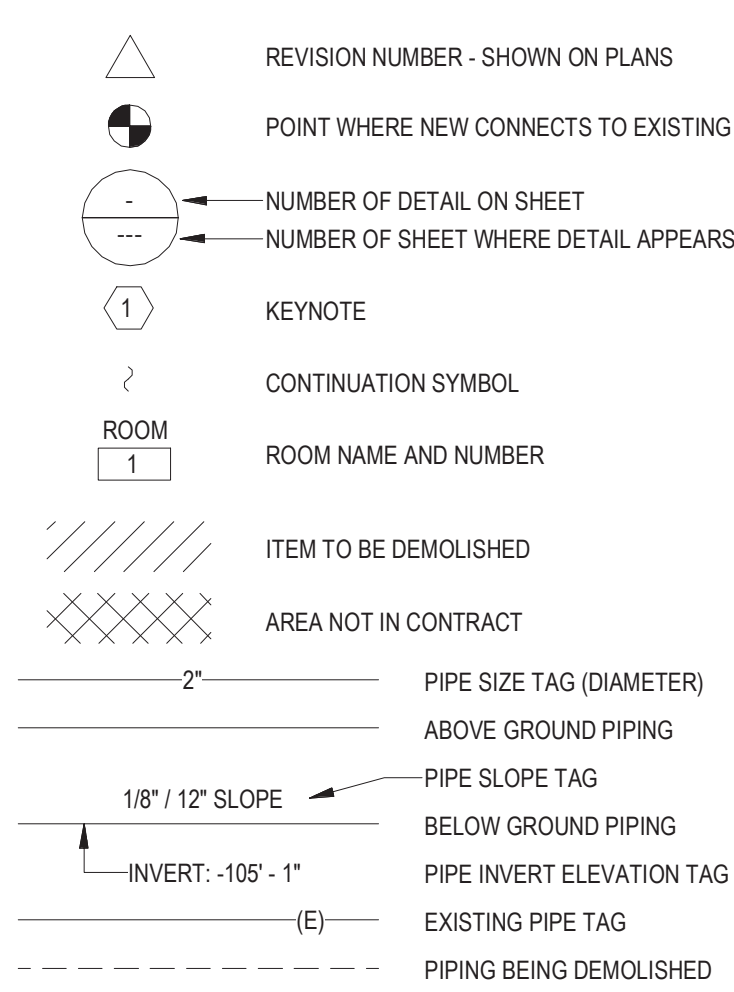
DRAIN TAGS



PLUMBING FIXTURE TAGS



GENERAL SYMBOLS

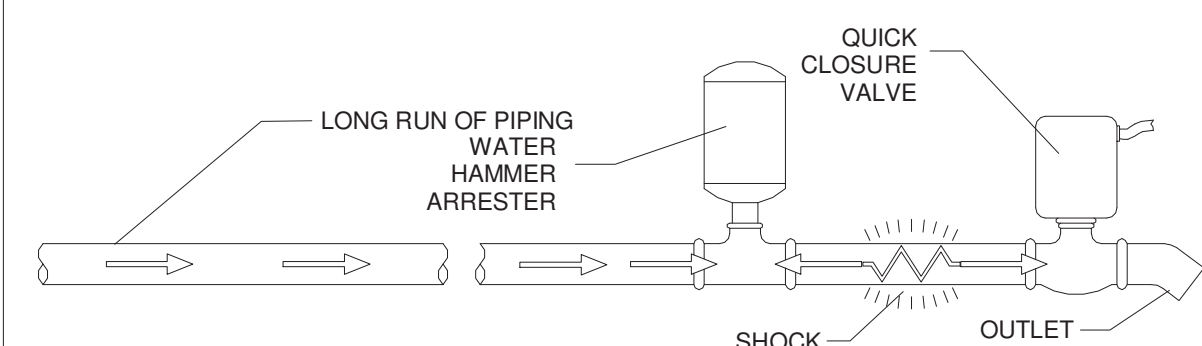


General Notes

- 1. ALL WORK SHALL CONFORM TO NEW YORK STATE ENERGY CODE, NATIONAL STANDARDS PLUMBING CODE AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
3. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.
5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, AND INSPECTIONS PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.

Sizing and Placement of Water Hammer Arrester (WHA)

TABLE 3 INDICATES THE SIZE OF THE WATER ARRESTER REQUIRED FOR LONG RUNS OF PIPING WHICH FEED A SINGLE REMOTE FIXTURE OR APPLIANCE. THE WATER ARRESTER UNIT SHOULD BE SIZED BY USING TABLE 3 AND LOCATED AS CLOSE TO THE POINT OF QUICK CLOSURE AS POSSIBLE.



WATER HAMMER ARRESTER SELECTION CHART

Table with columns for Length of Pipe (25', 50', 75', 100', 125', 150') and Nominal Pipe Size (1/2\", 3/4\", 1\", 1 1/4\", 1 1/2\", 2\").

NOTE: TABLE 3 SHOWS LENGTHS OF RUN OF BRANCH PIPING. THE LENGTH OF RUN USED SHOULD BE THE LENGTH OF PIPE FROM POINT OF VALVE CLOSURE TO A POINT OF RELIEF, SUCH AS LARGE PIPE RISER TWICE THE SIZE OF THE BRANCH LINE, MAIN LINE OR WATER TANK. ALL SIZING RECOMMENDATIONS SHOWN IN TABLE 3 ARE BASED ON AN OPERATING WATER PRESSURE OF 65 PSI OR UNDER AN AVERAGE VELOCITY BETWEEN 5 AND 10 FEET PER SECOND. IN OPERATING PRESSURES ARE OVER 65 PSI USE THE NEXT LARGER WATER HAMMER ARRESTER UNIT. WHEN PRESSURES ARE ANTICIPATED ABOVE 65 PSI A PRESSURE REDUCING VALVE IS RECOMMENDED.

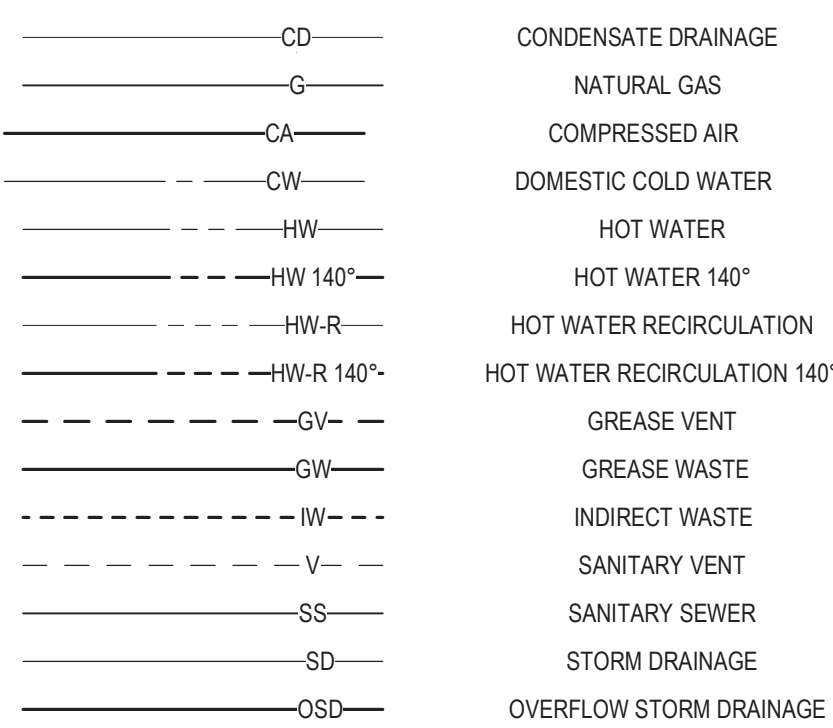
Plumbing General Notes

- 1. PLUMBING CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ALL LEGAL FEES.
2. INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK.
3. PIPE INSTALLATION AS FOLLOWS:
3.A. RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS.
3.B. ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES, SOIL, STORM, AND WASTE TO BE SLOPED @ 1/8\"/>

EQUIPMENT ABBREVIATIONS

Table of equipment abbreviations including AC, AHU, AS, B, CH, CT, CUH, CHW, DBP, DC, DDP, EF, EDC, ET, EWH, FCU, FP, GI, GRV, HWP, HRU, CHWP, RE, RTU, DDP, SP, UH, WH.

PIPE LEGEND



Plumbing System Materials

Table of plumbing system materials including Waste (Above/Below Ground), Vent (Above/Below Ground), Storm (Above/Below Ground), Domestic Water (Cold/Hot/Hot Return), Condensate (All), Additional Information (PVC Pipe and Fittings), Solvent Cement, Gas (Natural Gas), Insulation, and Accessible Pipe Insulation.

WHEN THE DISCREPANCY OCCURS BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED FOR THE PROJECT.

PLUMBING DRAWING LIST

Table with columns for Sheet Number and Sheet Name, listing plumbing notes, symbols & abbreviations, and various piping diagrams for levels 1-4 and roof/garage areas.

ARCHITECT HCM Design, Inc. 700 E. Pratt St., Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311
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MEPP ENGINEER LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400

HCM/LCS



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BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS

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Table with columns for no., date, revision.

Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS
Project Number 4.1308.01
Date 4/30/2021
Scale 1/8\"/>

P0.01

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1 ROOF SANITARY SEWER PIPING PLAN - WEST  
 P2.07 1/8" = 1'-0"

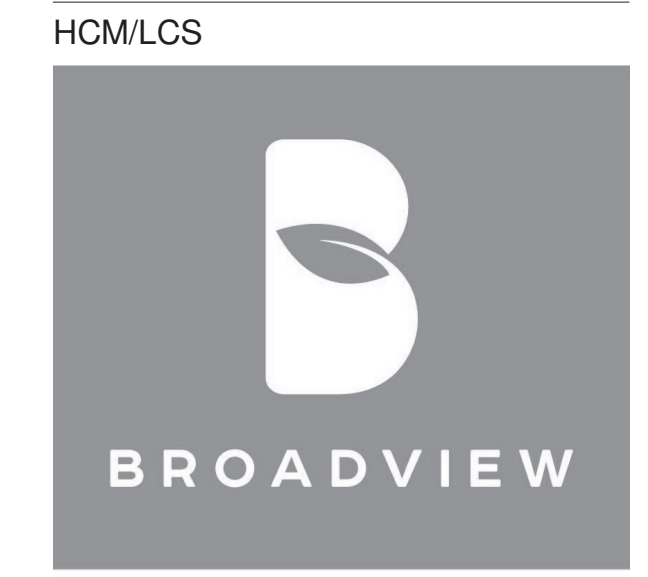
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 Project Number  
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 Date  
 4/30/2021

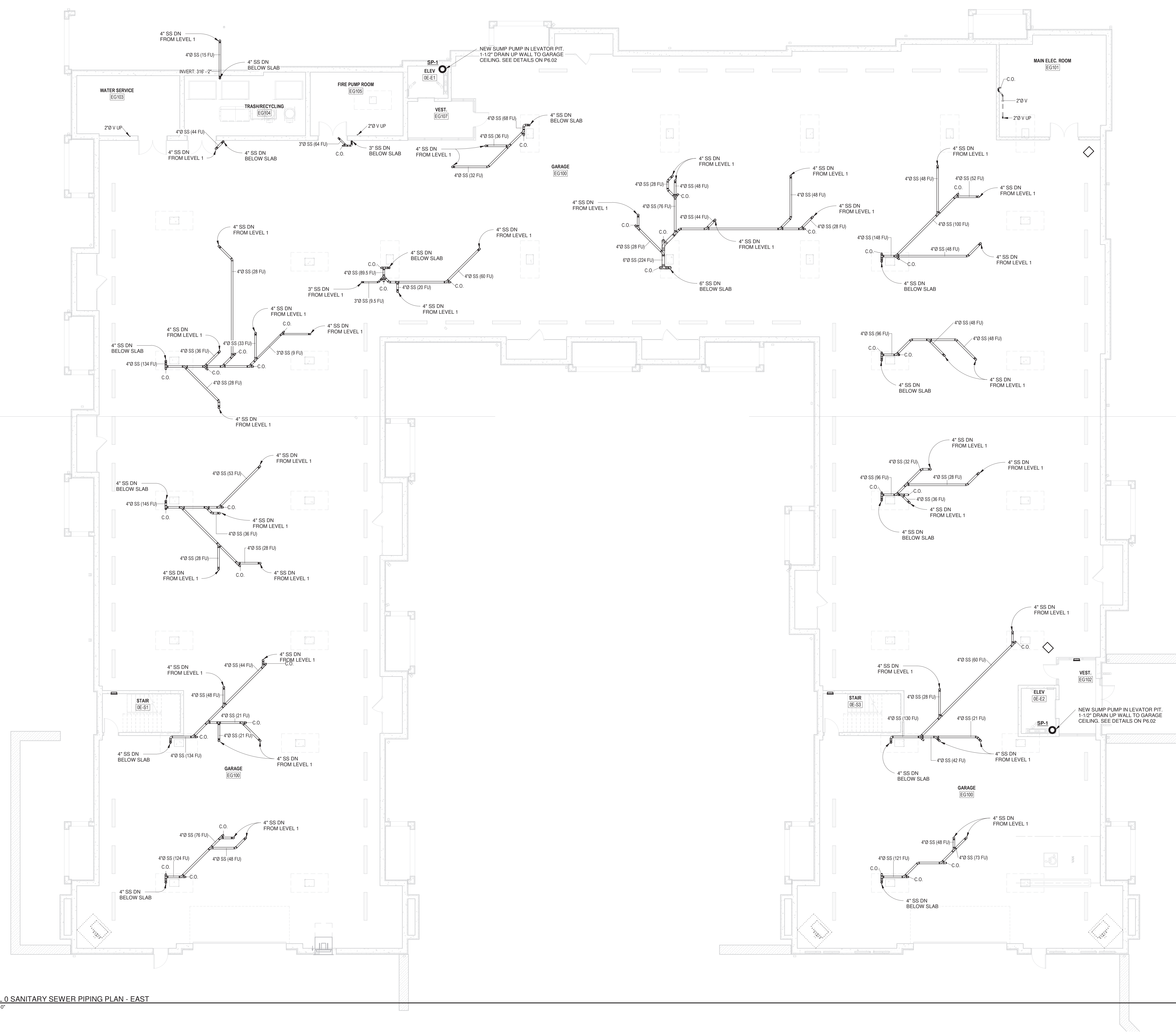
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 Drawing  
 PLUMBING PLAN IL-WEST ROOF / SANITARY WASTE & VENTING

P2.07









1 LEVEL 0 SANITARY SEWER PIPING PLAN - EAST  
P2.11 1/8" = 1'-0"

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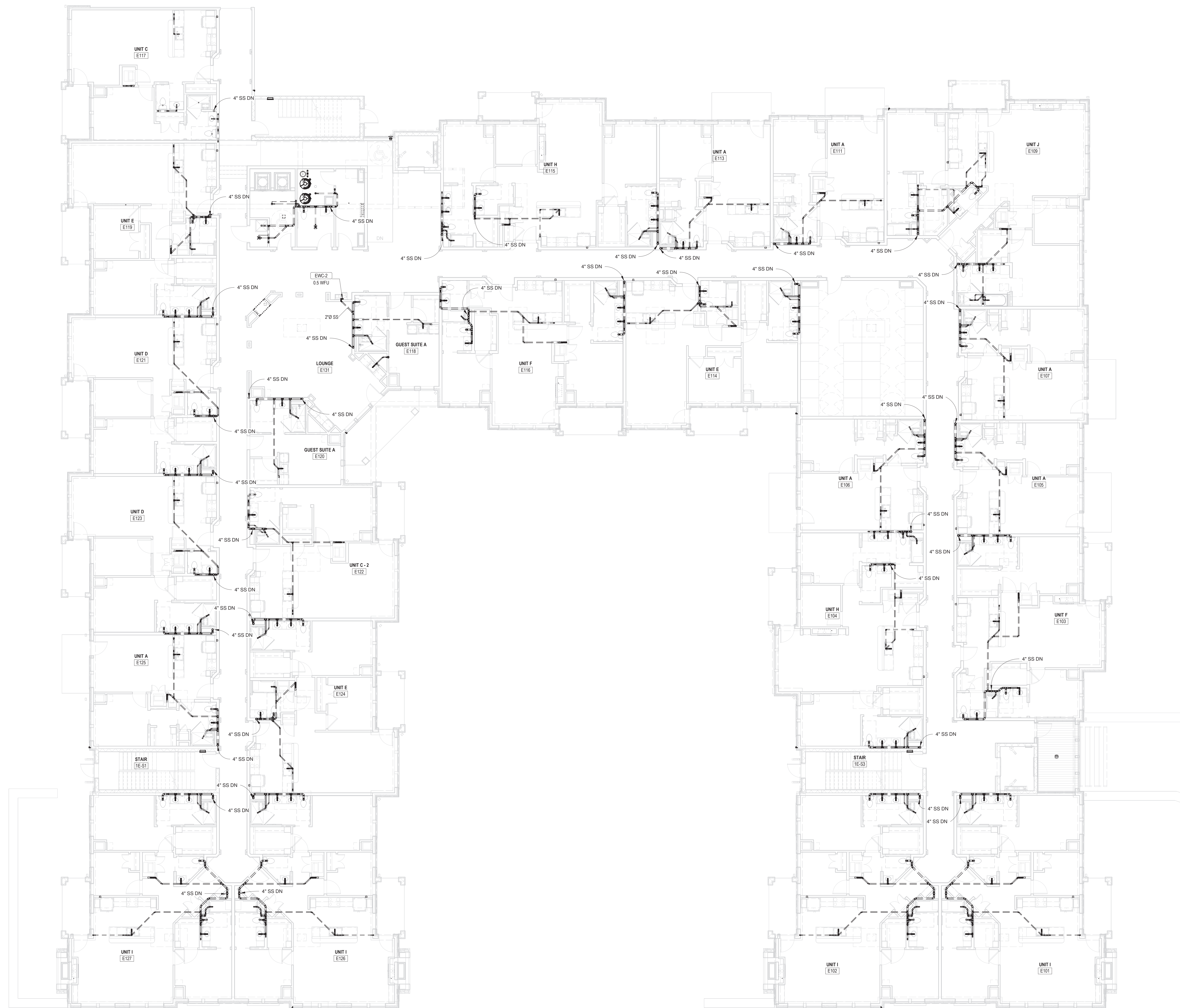
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 COLLEGE - IL BUILDINGS  
 Project Number  
 4.1308.01  
 Date  
 4/30/2021

Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST  
 GARAGE / SANITARY WASTE &  
 VENTING

P2.11

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1 LEVEL 1 SANITARY SEWER PIPING PLAN - EAST  
 P2.12 1/8" = 1'-0"

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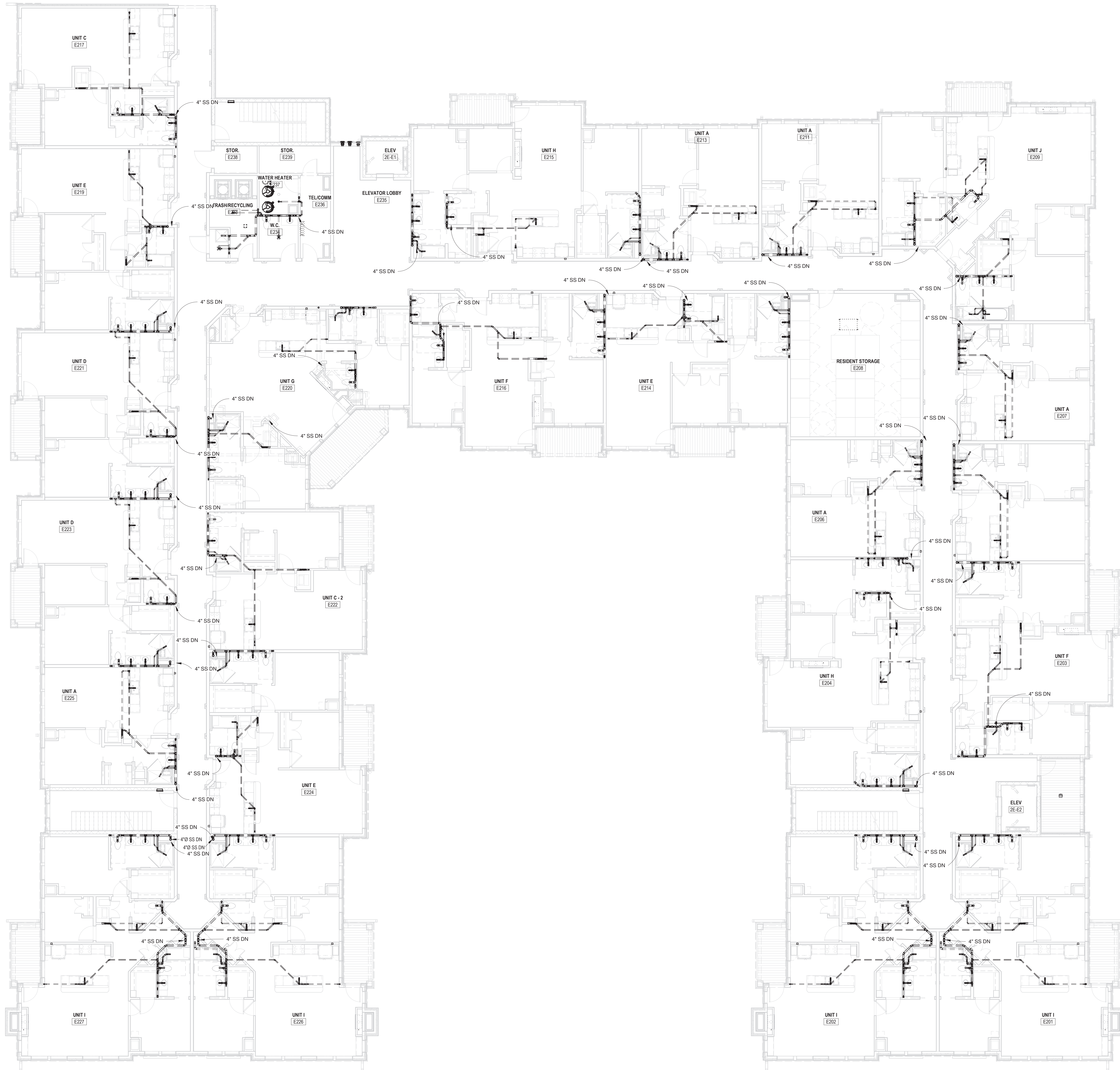
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 Date  
 4/30/2021  
 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 1  
 / SANITARY WASTE & VENTING

P2.12





1 LEVEL 2 SANITARY SEWER PIPING PLAN - EAST  
 P2.13 1/8" = 1'-0"

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 Project Number  
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 Date  
 4/30/2021  
 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 2  
 / SANITARY WASTE & VENTING

**P2.13**





1 LEVEL 3 SANITARY SEWER PIPING PLAN - EAST  
P2.14 1/8" = 1'-0"

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 Project Number  
 4.1308.01  
 Date  
 4/30/2021  
 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 3  
 / SANITARY WASTE & VENTING

P2.14

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 COLLEGE - IL BUILDINGS**

Project Number  
**4.1308.01**

Date  
**4/30/2021**

Scale  
**1/8" = 1'-0"**

Drawing  
**PLUMBING PLAN IL-EAST LEVEL 4  
 / SANITARY WASTE & VENTING**

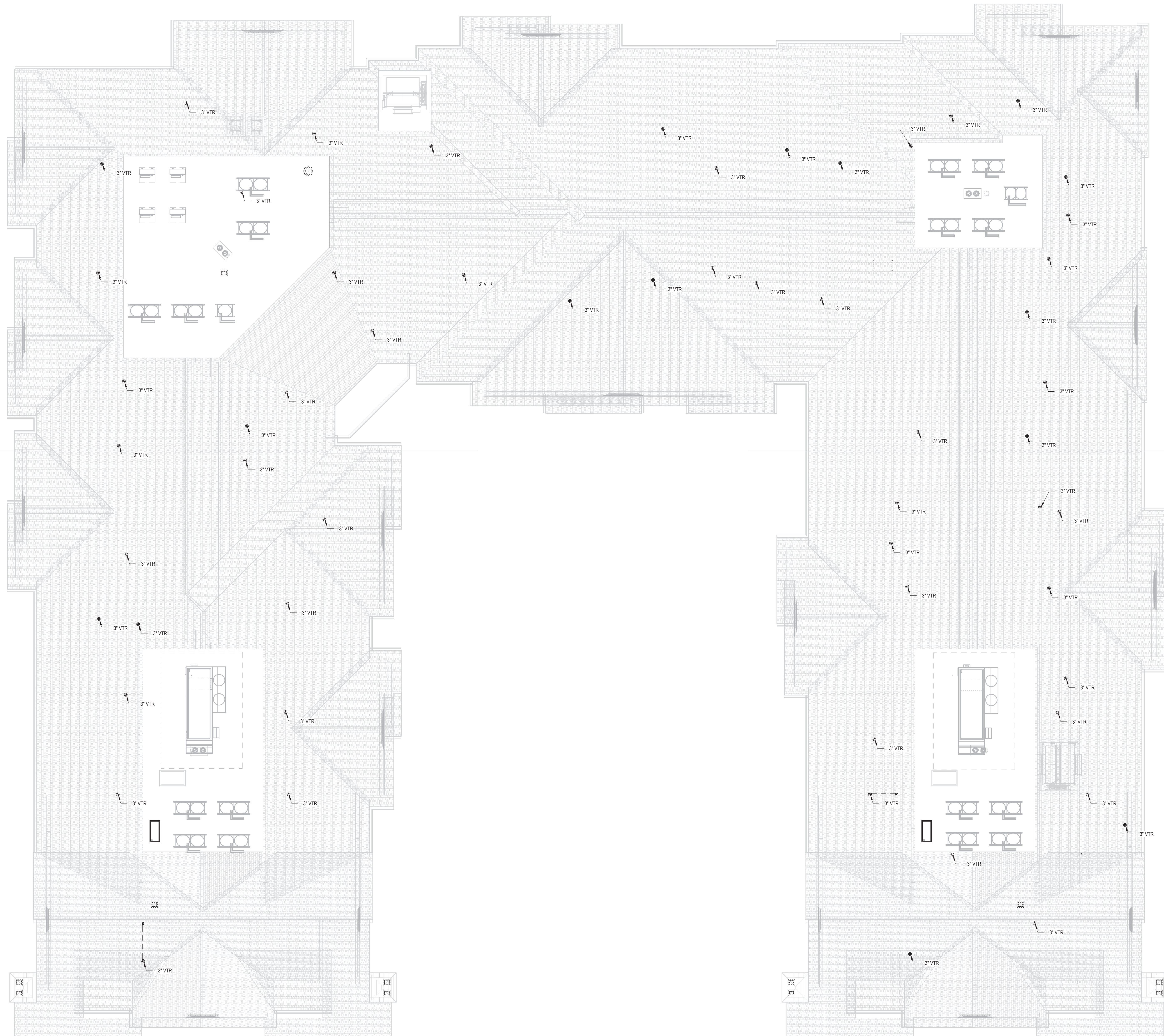
**P2.15**

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**1** LEVEL 4 SANITARY SEWER PIPING PLAN - EAST  
 P2.15 1/8" = 1'-0"





1 ROOF SANITARY SEWER PIPING PLAN - EAST  
P2.16 1/8" = 1'-0"

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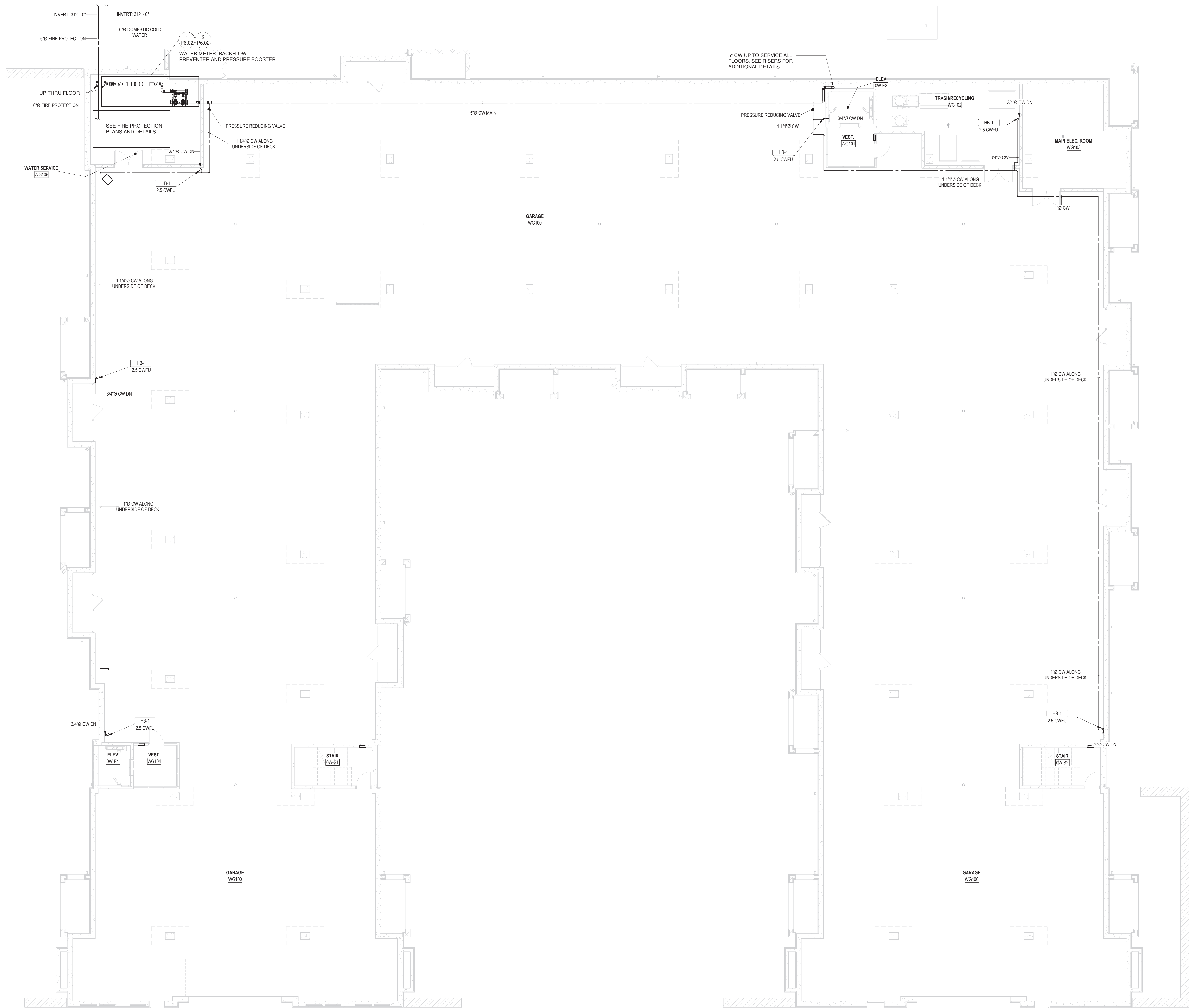
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-EAST ROOF /  
 SANITARY WASTE & VENTING

**P2.16**

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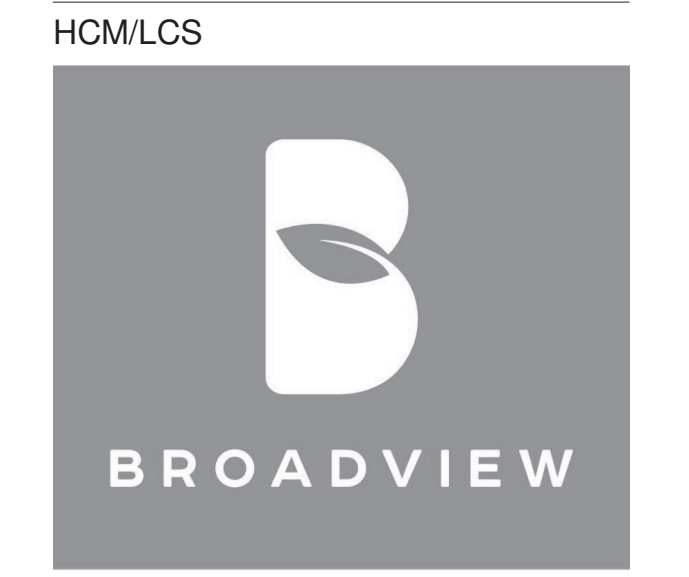
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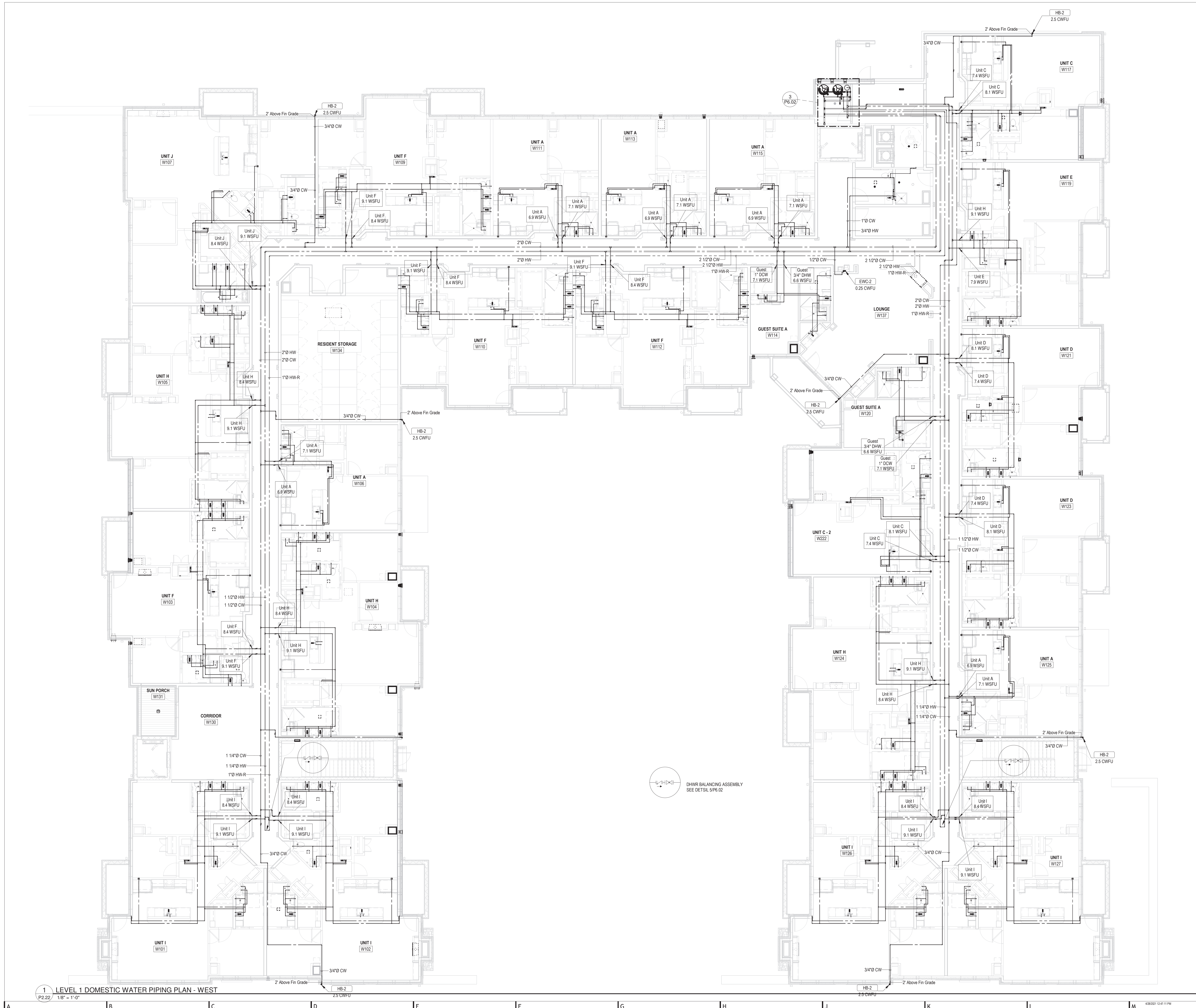
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-WEST GARAGE / DOMESTIC WATER PIPING

**P2.21**

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1 LEVEL 0 DOMESTIC WATER PIPING PLAN - WEST  
 P2.21 1/8" = 1'-0"





1 LEVEL 1 DOMESTIC WATER PIPING PLAN - WEST  
 P2.22 1/8" = 1'-0"

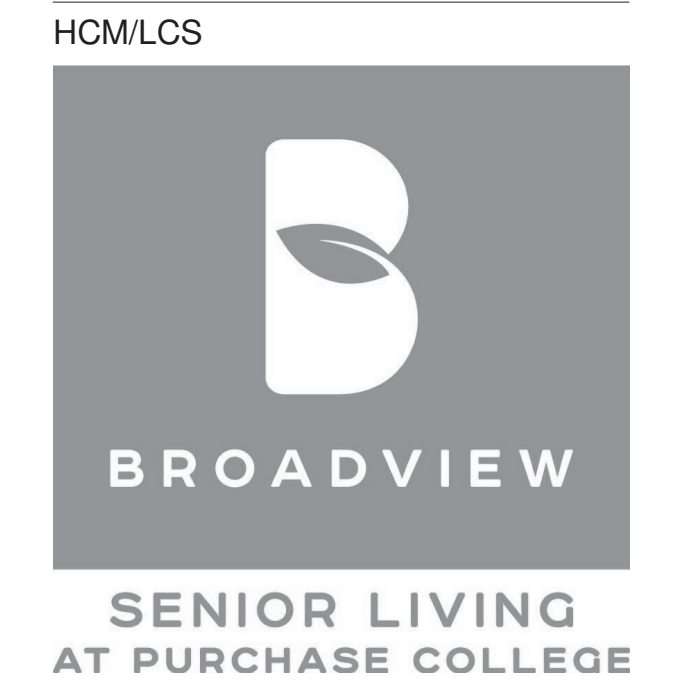
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-WEST LEVEL  
 1 / DOMESTIC WATER PIPING

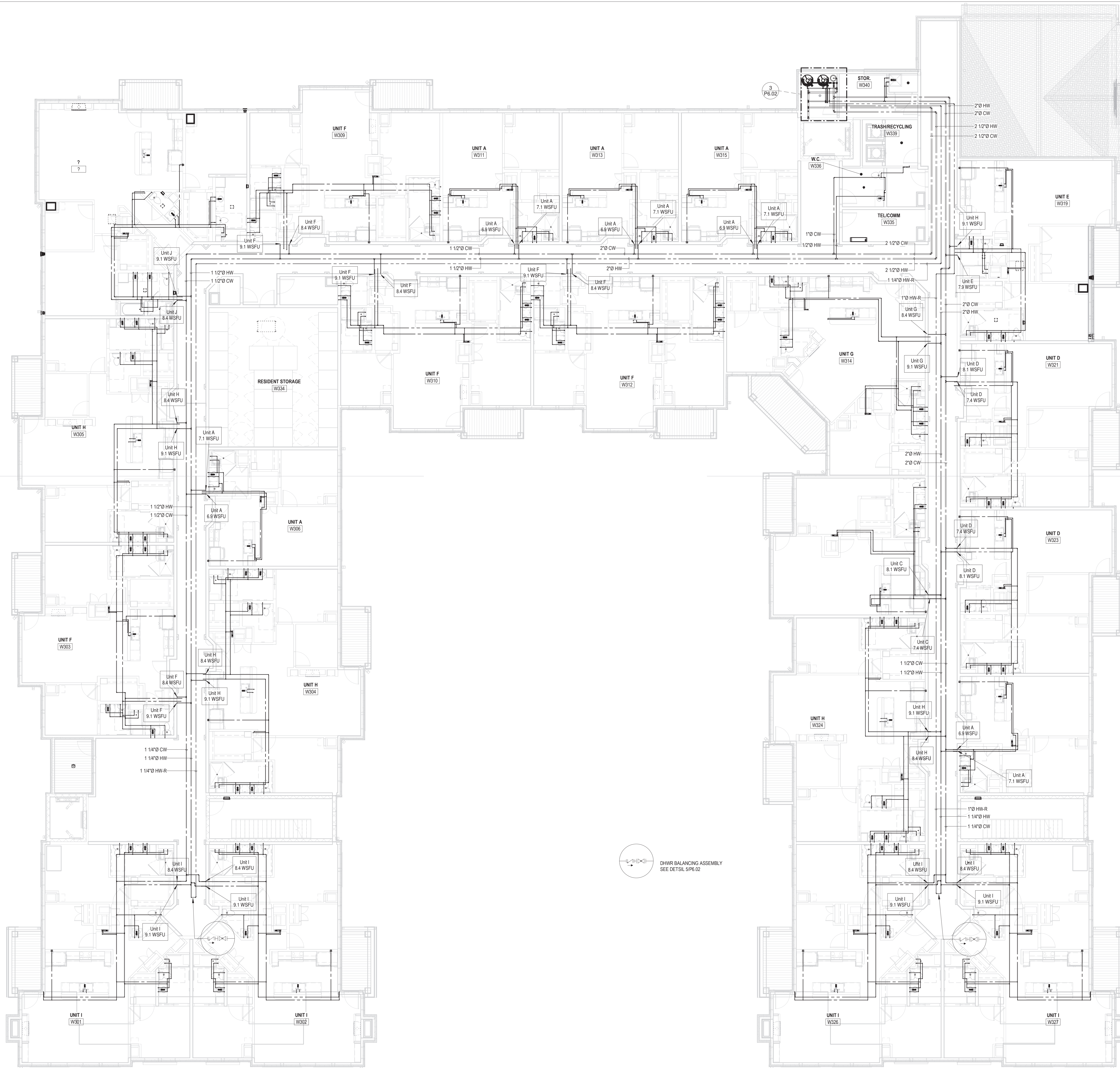
P2.22

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1 LEVEL 3 DOMESTIC WATER PIPING PLAN - WEST  
P2.24 1/8" = 1'-0"

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 Drawing  
 PLUMBING PLAN IL-WEST LEVEL 3 / DOMESTIC WATER PIPING

**P2.24**

9 PERMIT / GMP SET









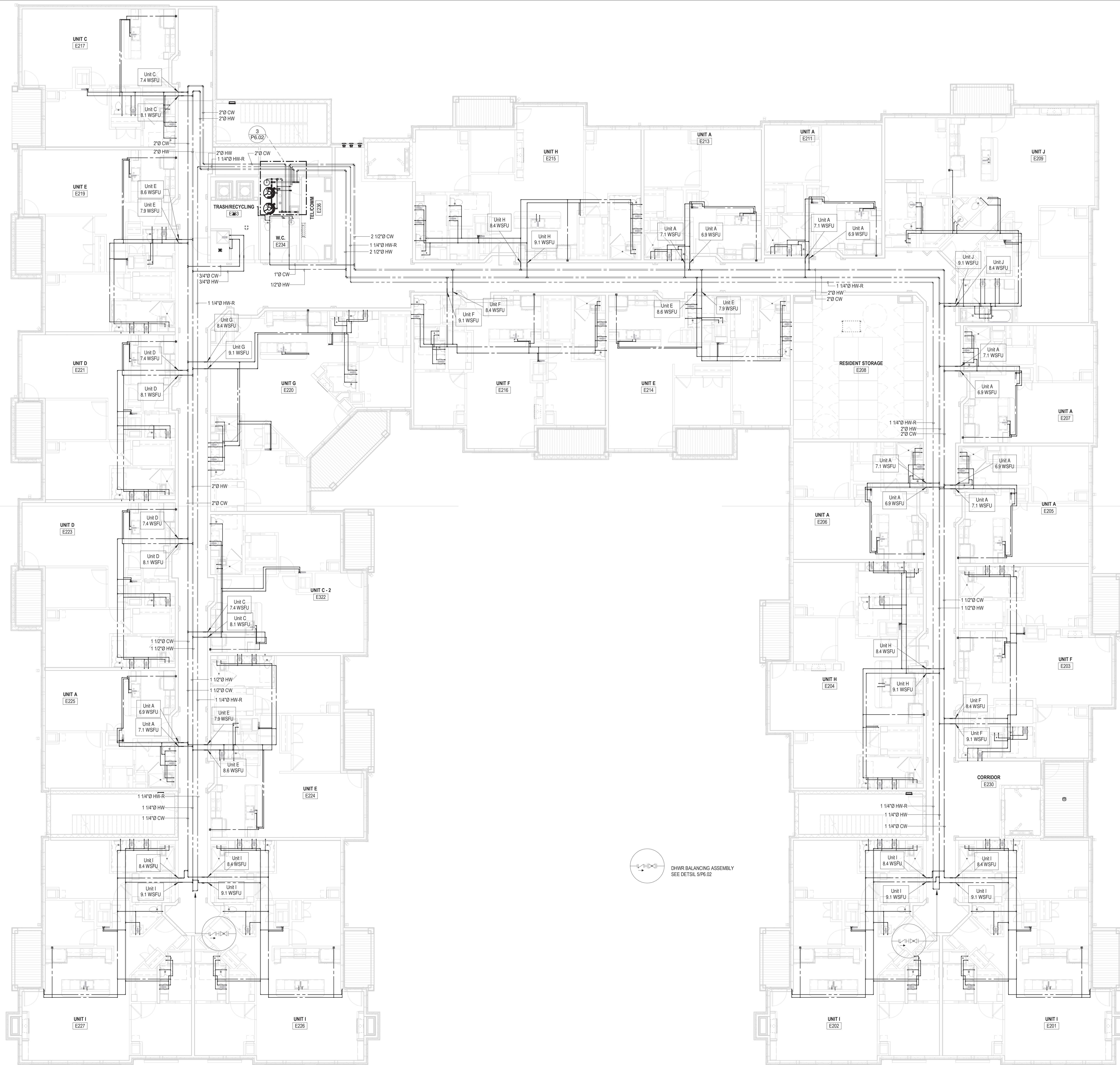












1 LEVEL 2 DOMESTIC WATER PIPING PLAN - EAST  
P2.29 1/8" = 1'-0"

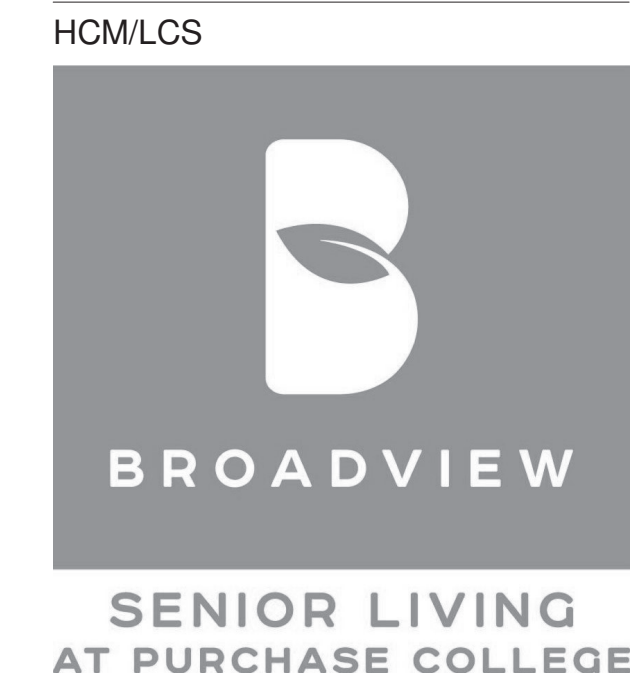
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 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 2 / DOMESTIC WATER PIPING

P2.29

9 PERMIT / GMP SET  
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1 LEVEL 3 DOMESTIC WATER PIPING PLAN - EAST  
P2.30 1/8" = 1'-0"

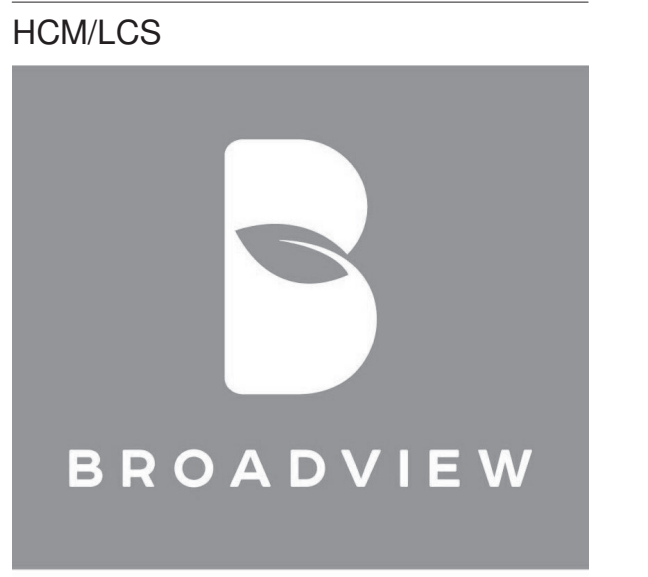
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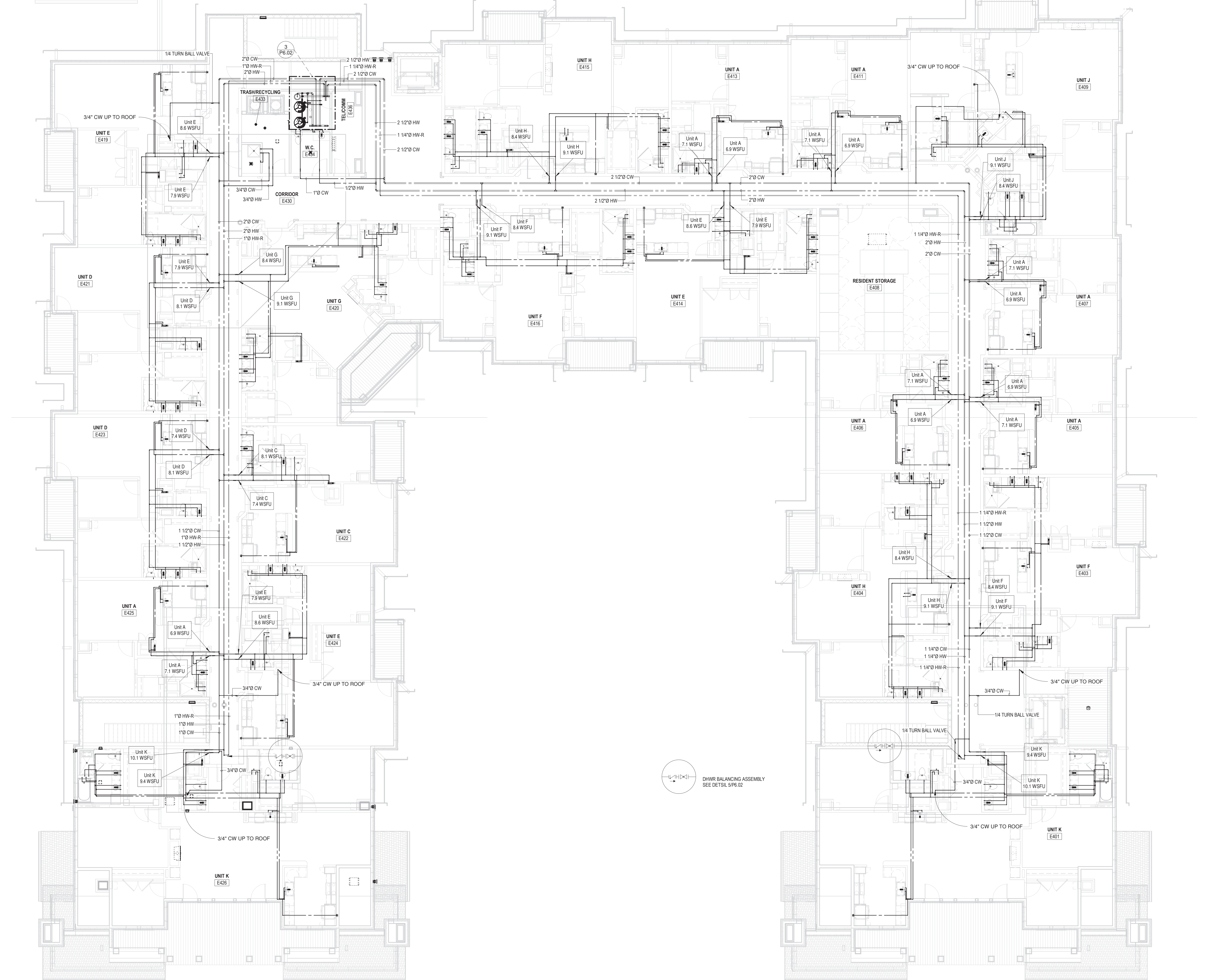
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 Date  
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 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 3  
 / DOMESTIC WATER PIPING

**P2.30**

PERMIT / GMP SET





1 LEVEL 4 DOMESTIC WATER PIPING PLAN - EAST  
 P2.31 1/8" = 1'-0"

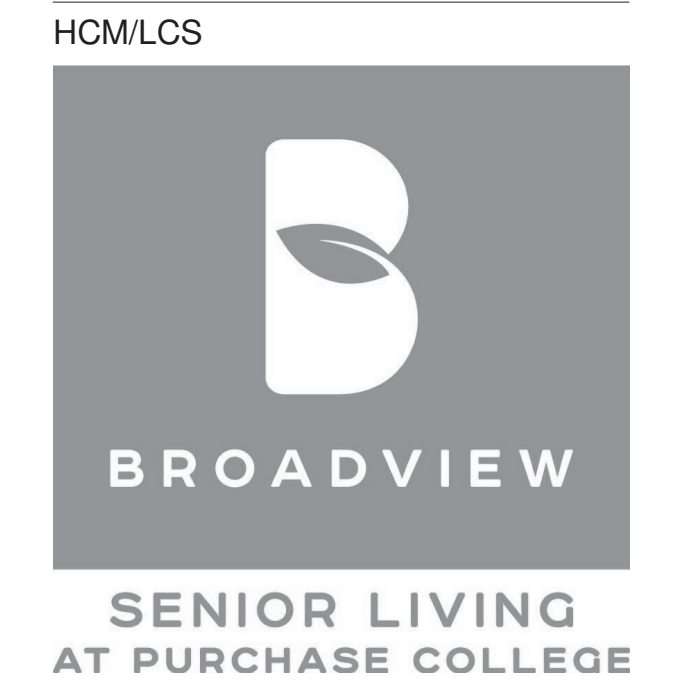
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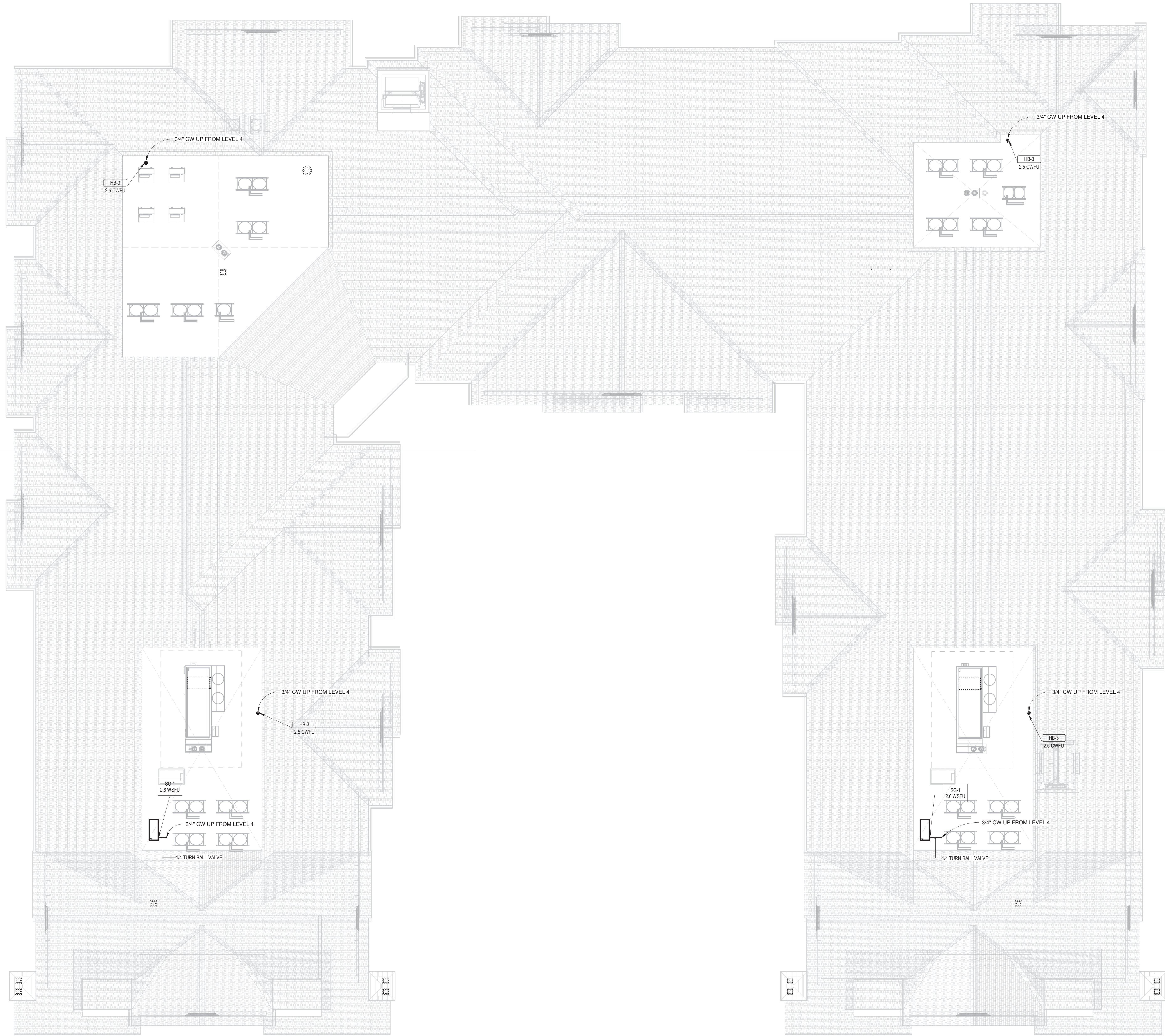
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 Project Number  
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 Date  
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 4  
 / DOMESTIC WATER PIPING

**P2.31**

9 PERMIT / GMP SET  
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**1** ROOF DOMESTIC WATER PIPING PLAN - EAST  
P2.32 1/8" = 1'-0"

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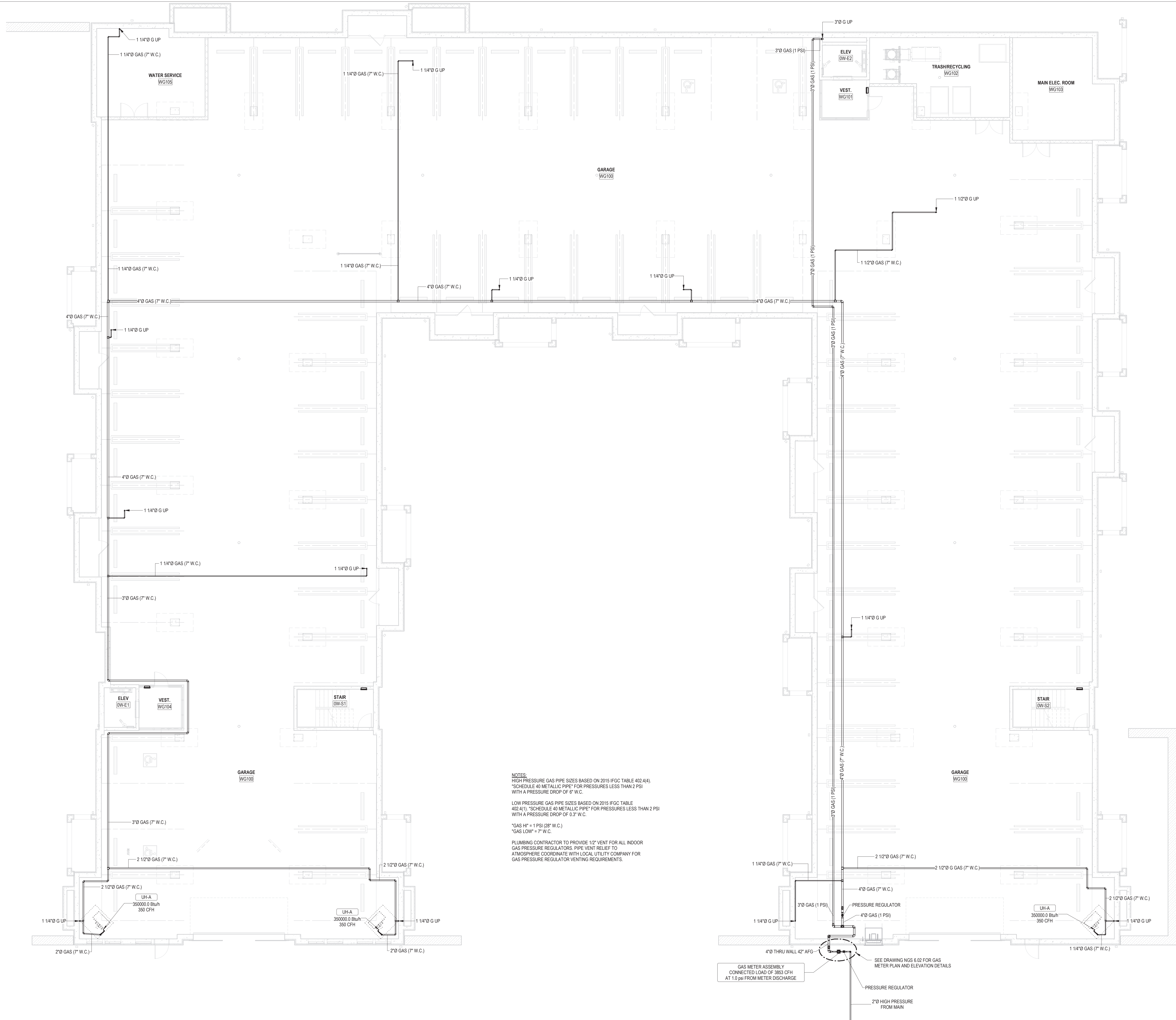
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Date  
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Scale  
1/8" = 1'-0"  
Drawing  
PLUMBING PLAN IL-EAST ROOF /  
DOMESTIC WATER PIPING

**P2.32**

PERMIT / GMP SET





**NOTES:**  
 HIGH PRESSURE GAS PIPE SIZES BASED ON 2015 IFGC TABLE 402.4(4).  
 "SCHEDULE 40 METALLIC PIPE" FOR PRESSURES LESS THAN 2 PSI  
 WITH A PRESSURE DROP OF 6" W.C.  
 LOW PRESSURE GAS PIPE SIZES BASED ON 2015 IFGC TABLE  
 402.4(1). "SCHEDULE 40 METALLIC PIPE" FOR PRESSURES LESS THAN 2 PSI  
 WITH A PRESSURE DROP OF 0.3" W.C.  
 \*GAS HP" = 1 PSI (28" W.C.)  
 \*GAS LOW" = 7" W.C.  
 PLUMBING CONTRACTOR TO PROVIDE 1/2" VENT FOR ALL INDOOR  
 GAS PRESSURE REGULATORS. PIPE VENT RELIEF TO  
 ATMOSPHERE COORDINATE WITH LOCAL UTILITY COMPANY FOR  
 GAS PRESSURE REGULATOR VENTING REQUIREMENTS.

GAS METER ASSEMBLY  
 CONNECTED LOAD OF 3883 CFH  
 AT 1.0 psi FROM METER DISCHARGE  
 SEE DRAWING NGS 6.02 FOR GAS  
 METER PLAN AND ELEVATION DETAILS  
 PRESSURE REGULATOR  
 2" HIGH PRESSURE  
 FROM MAIN

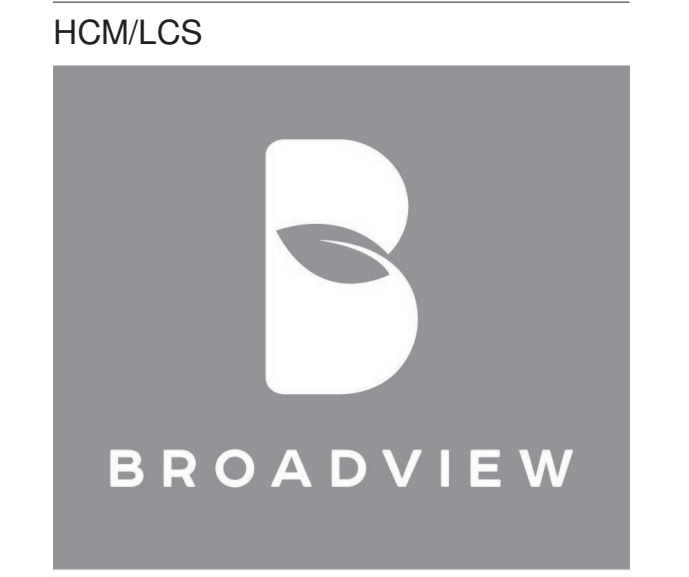
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-WEST  
 GARAGE / GAS PIPING

**P2.41**

PERMIT / GMP SET

1 GARAGE GAS PIPING PLAN - WEST  
 P2.41 1/8" = 1'-0"





1 LEVEL 1 GAS PIPING PLAN - WEST  
 P2.42 1/8" = 1'-0"

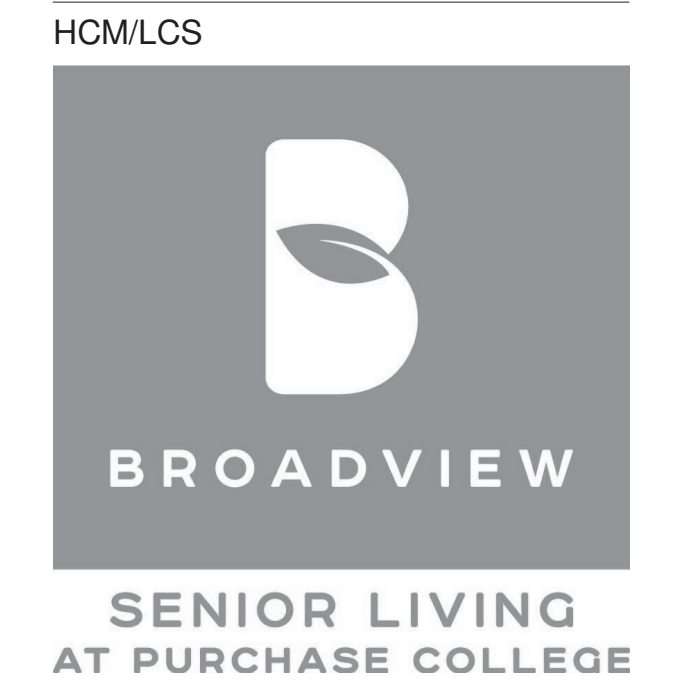
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 Drawing  
 PLUMBING PLAN IL-WEST LEVEL  
 1 / GAS PIPING

P2.42





1 LEVEL 2 GAS PIPING PLAN - WEST  
P2.43 1/8" = 1'-0"

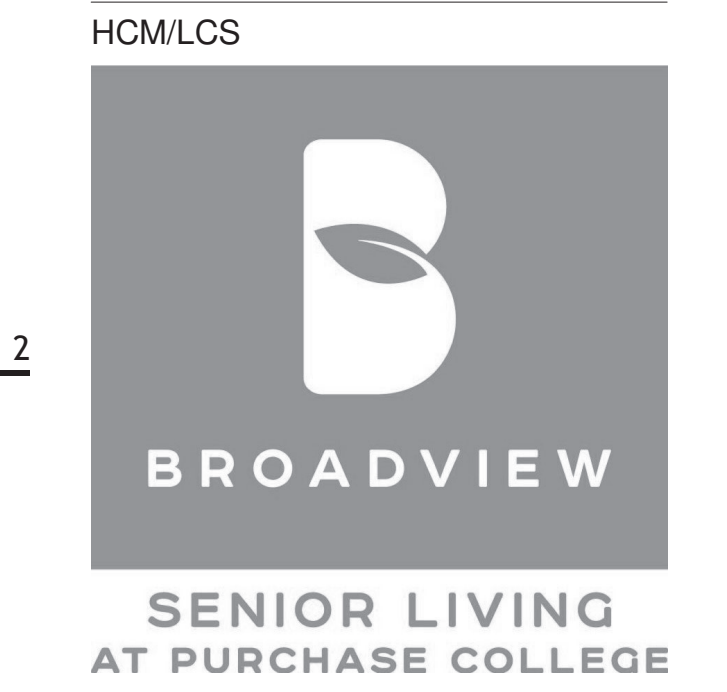
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 Drawing  
 PLUMBING PLAN IL-WEST LEVEL  
 2 / GAS PIPING

P2.43





1 LEVEL 3 GAS PIPING PLAN - WEST  
P2.44 1/8" = 1'-0"

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 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-WEST LEVEL  
 3 / GAS PIPING

P2.44

PERMIT / GMP SET





1  
P2.45  
LEVEL 4 GAS PIPING PLAN - WEST  
1/8" = 1'-0"

1A 1B 1C 1D 1E 1F 1G 1H 1J 1K 1L 1M 4/29/21 12:00 PM

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4 / GAS PIPING

P2.45

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**SENIOR LIVING AT PURCHASE COLLEGE**

**BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS**

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Project Number  
**4.1308.01**

Date  
**4/30/2021**

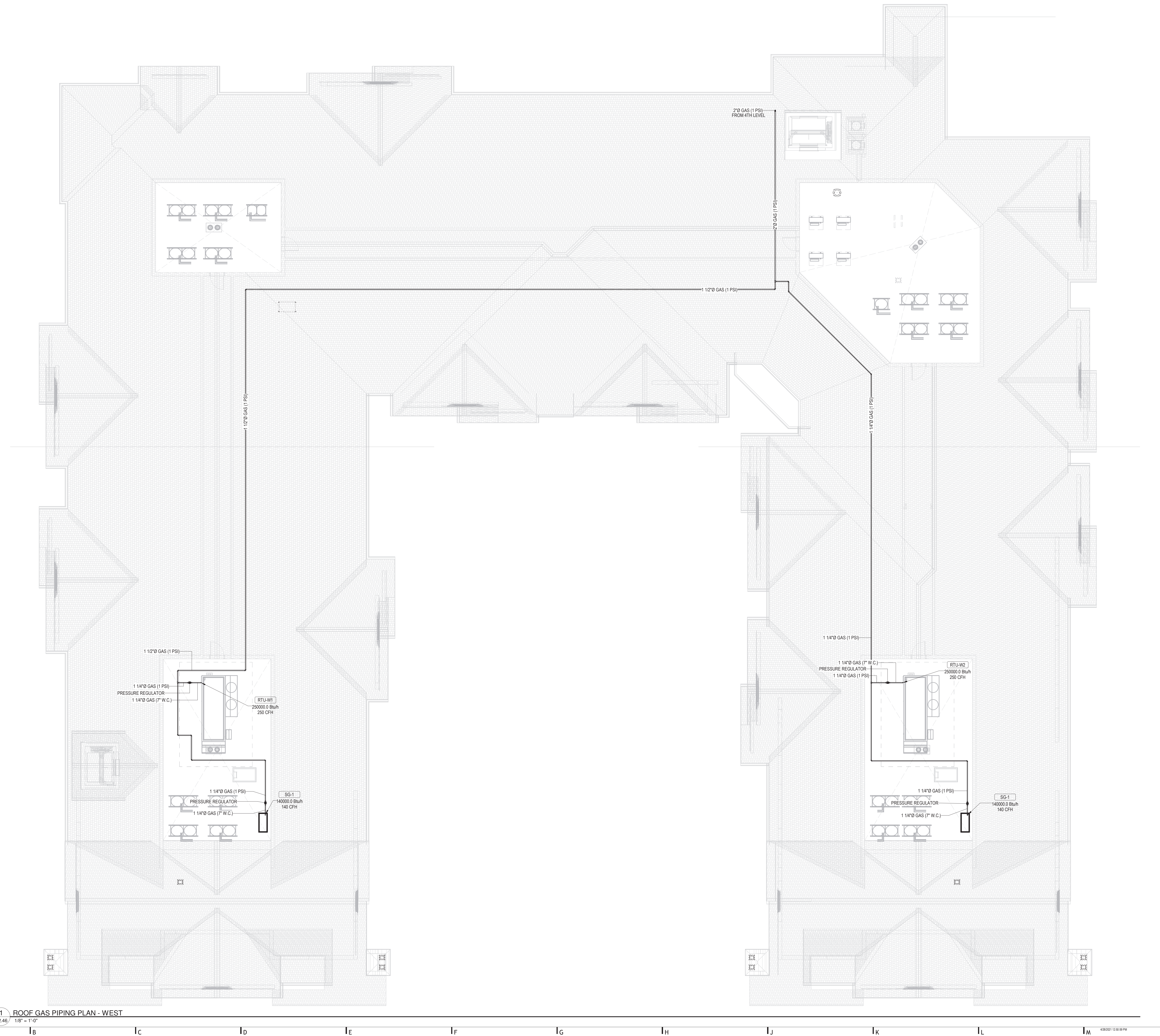
Scale  
**1/8" = 1'-0"**

Drawing  
**PLUMBING PLAN IL-WEST ROOF / GAS PIPING**

**P2.46**

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1 **ROOF GAS PIPING PLAN - WEST**  
P2.46 1/8" = 1'-0"









1 LEVEL 1 GAS PIPING PLAN - EAST  
P2.48 1/8" = 1'-0"

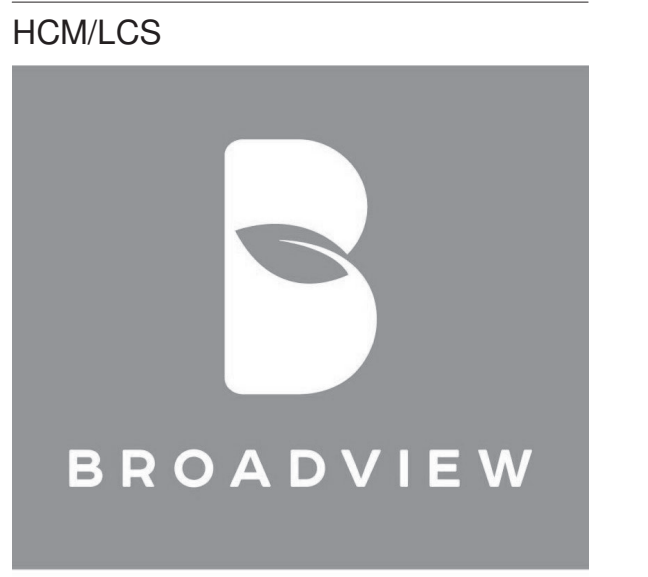
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 Date  
 4/30/2021

Scale  
 1/8" = 1'-0"

Drawing  
 PLUMBING PLAN IL-EAST LEVEL 1  
 / GAS PIPING

**P2.48**





**1 P2.49 LEVEL 2 GAS PIPING PLAN - EAST**  
 1/8" = 1'-0"

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 Scale  
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 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 2 / GAS PIPING

**P2.49**

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4.1308.01  
Date  
4/30/2021  
Scale  
1/8" = 1'-0"  
Drawing  
PLUMBING PLAN IL-EAST LEVEL 3 / GAS PIPING

P2.50



1 LEVEL 3 GAS PIPING PLAN - EAST  
P2.50 / 1/8" = 1'-0"





**1 LEVEL 4 GAS PIPING PLAN - EAST**  
 P2.51 1/8" = 1'-0"

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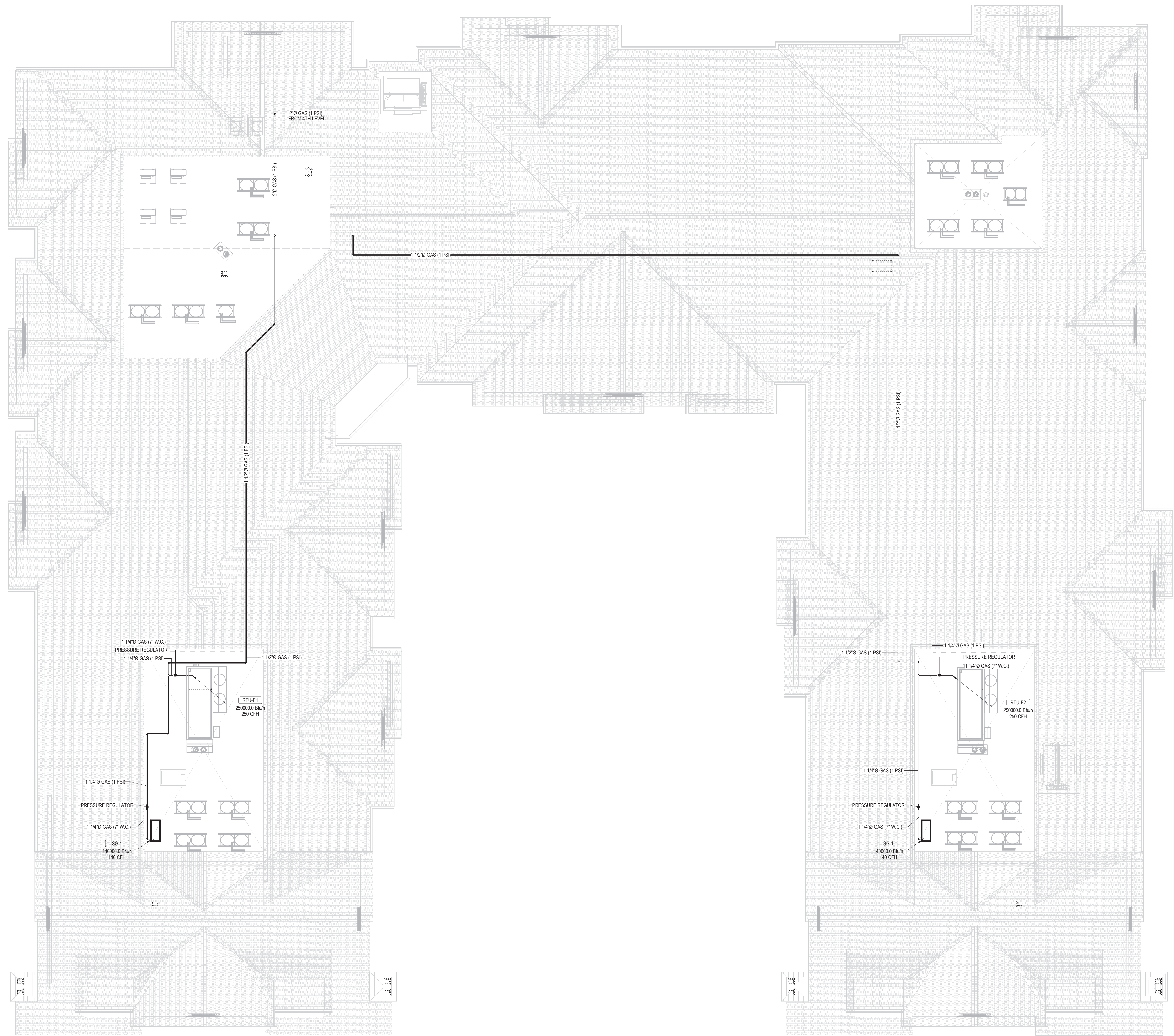
Scale  
**1/8" = 1'-0"**

Drawing  
**PLUMBING PLAN IL-EAST LEVEL 4 / GAS PIPING**

**P2.51**

**PERMIT / GMP SET**





**1** ROOF GAS PIPING PLAN - EAST  
 P2.52 / 1/8" = 1'-0"

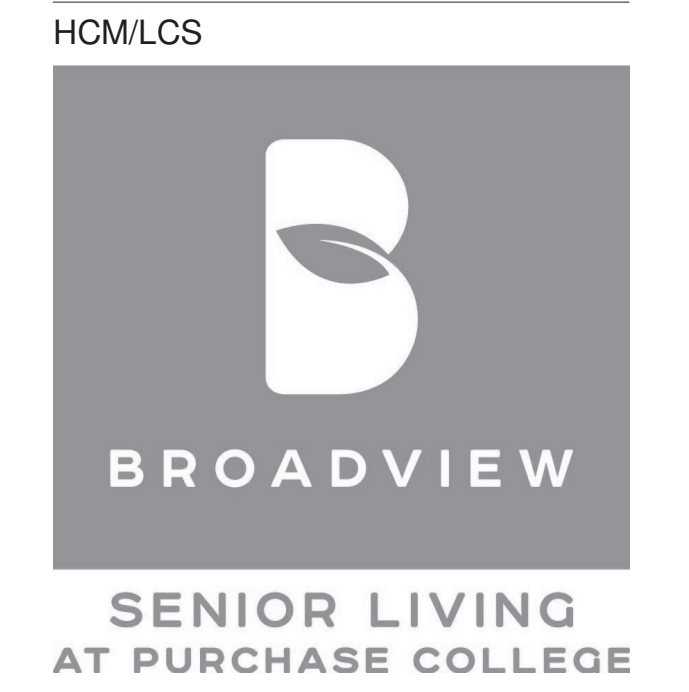
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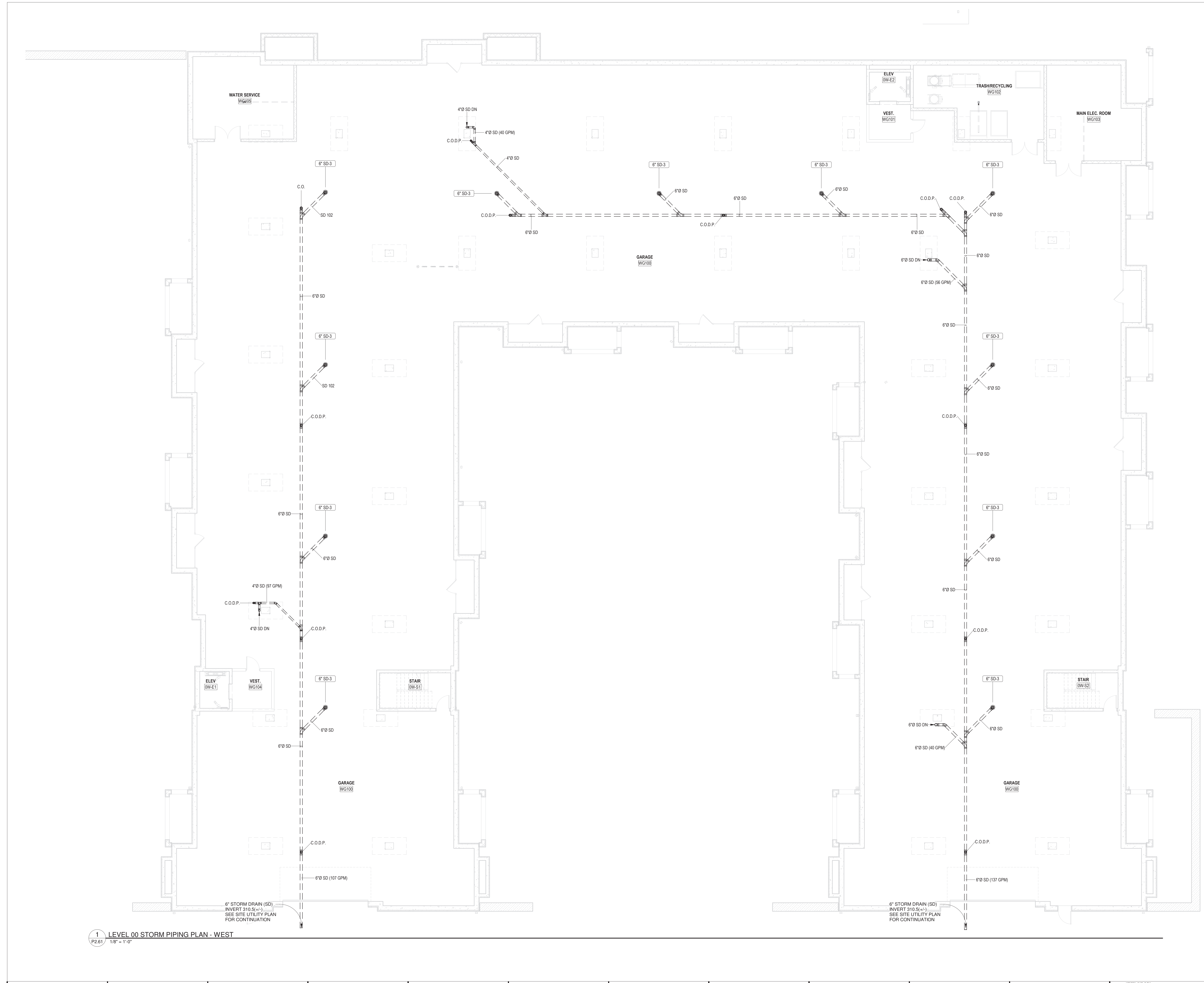
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 Date  
 4/30/2021

Scale  
 1/8" = 1'-0"

Drawing  
 PLUMBING PLAN IL-EAST ROOF /  
 GAS PIPING

**P2.52**





1 LEVEL 00 STORM PIPING PLAN - WEST  
P2.61 1/8" = 1'-0"

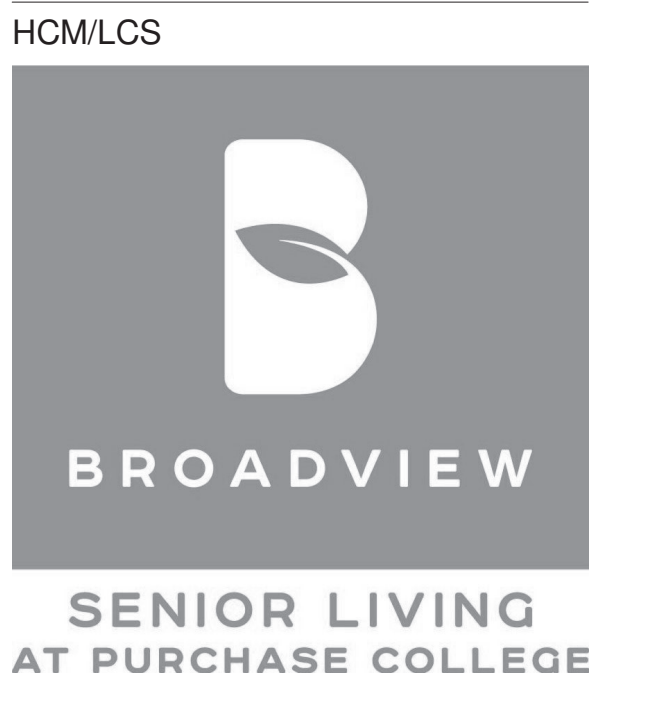
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 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-WEST  
 GARAGE SUBSLAB / STORM &  
 CONDENSATE

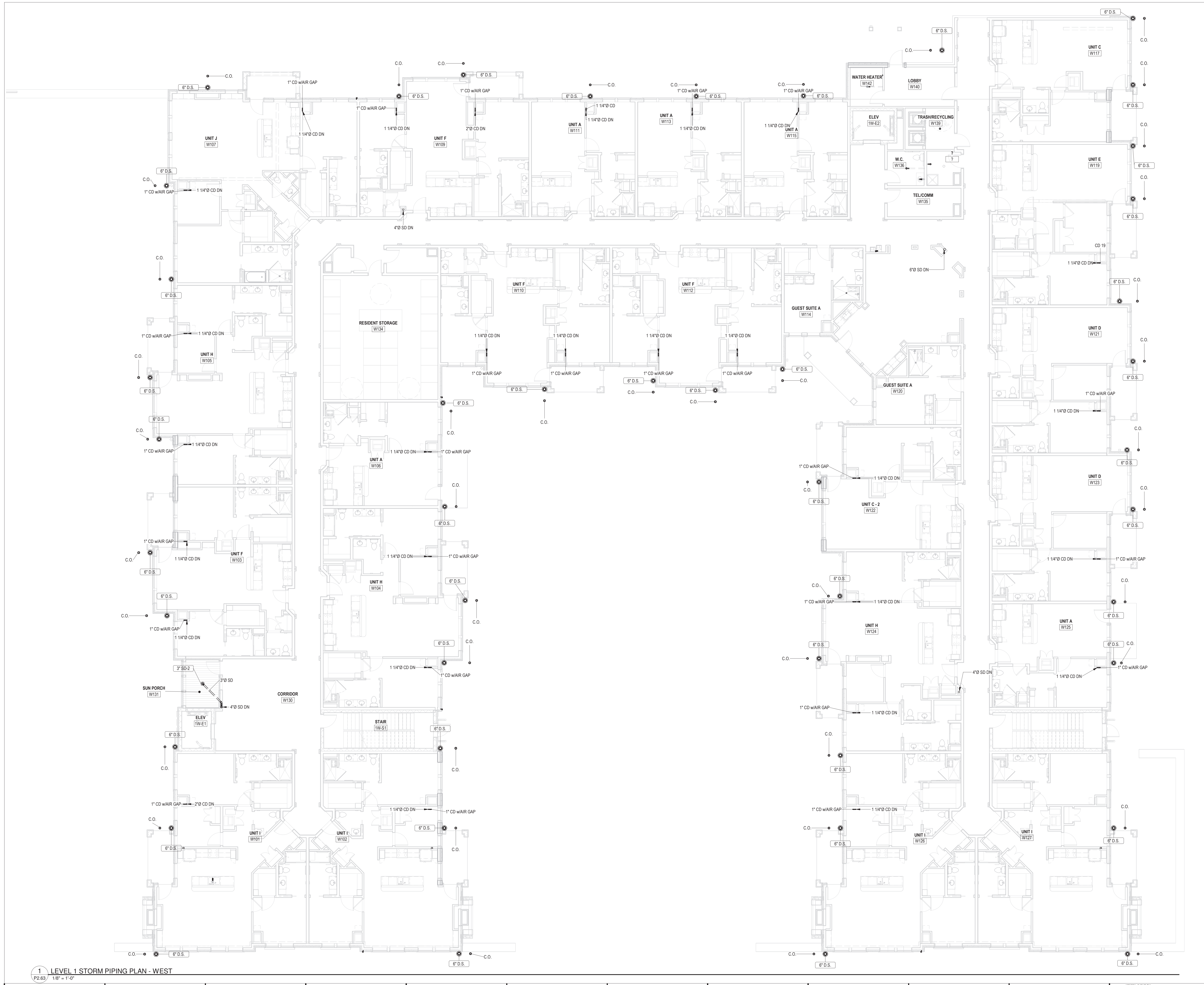
**P2.61**

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1 LEVEL 1 STORM PIPING PLAN - WEST  
P2.63 1/8" = 1'-0"

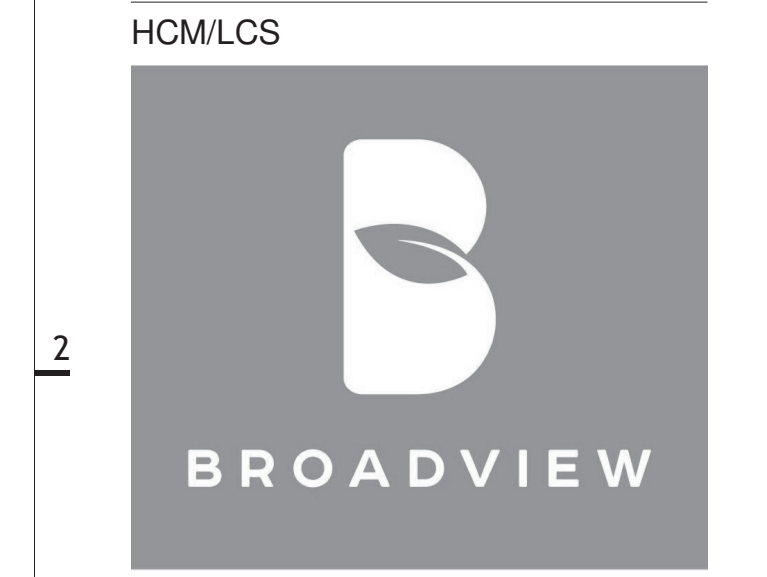
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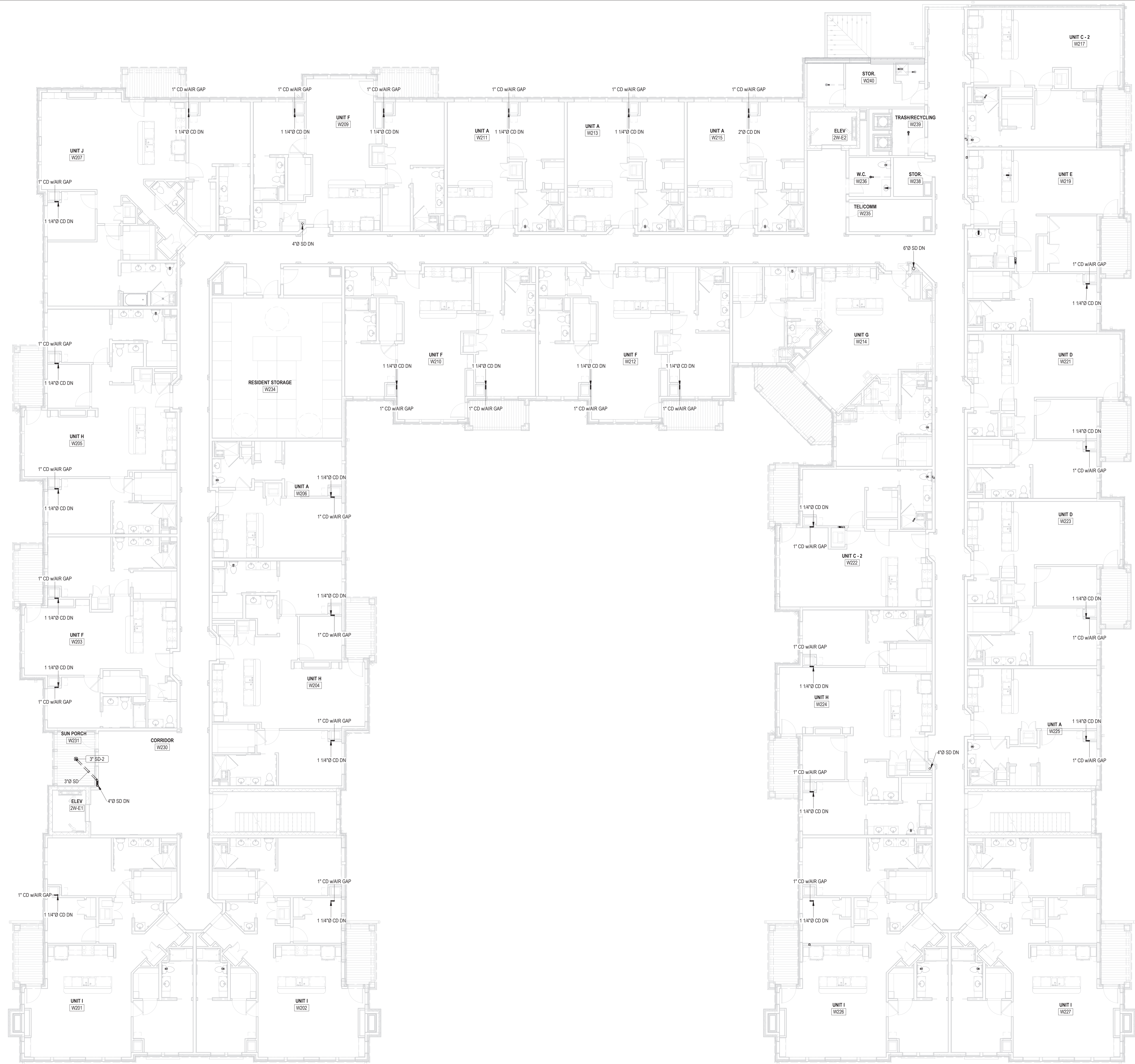
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**1/8" = 1'-0"**

Drawing  
**PLUMBING PLAN IL-WEST LEVEL  
 1 / STORM & CONDENSATE**

**P2.63**

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 Scale  
**1/8" = 1'-0"**  
 Drawing  
**PLUMBING PLAN IL-WEST LEVEL 2 / STORM & CONDENSATE**

**P2.64**

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**1 LEVEL 2 STORM PIPING PLAN - WEST**  
 P2.64 / 1/8" = 1'-0"

1A 1B 1C 1D 1E 1F 1G 1H 1J 1K 1L 1M 4/29/2021 12:02:33 PM





1 LEVEL 3 STORM PIPING PLAN - WEST  
P2.65 1/8" = 1'-0"

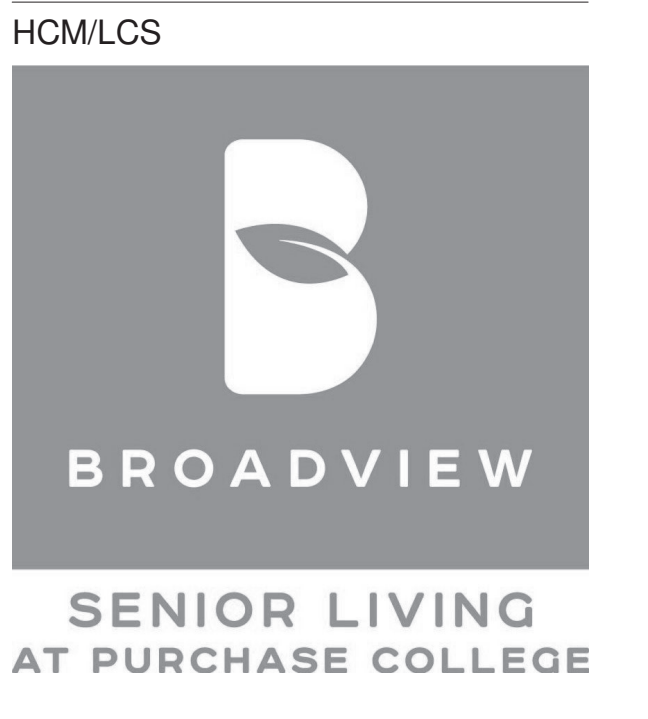
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 Scale  
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 Drawing  
**PLUMBING PLAN IL-WEST LEVEL  
 3 / STORM & CONDENSATE**

**P2.65**









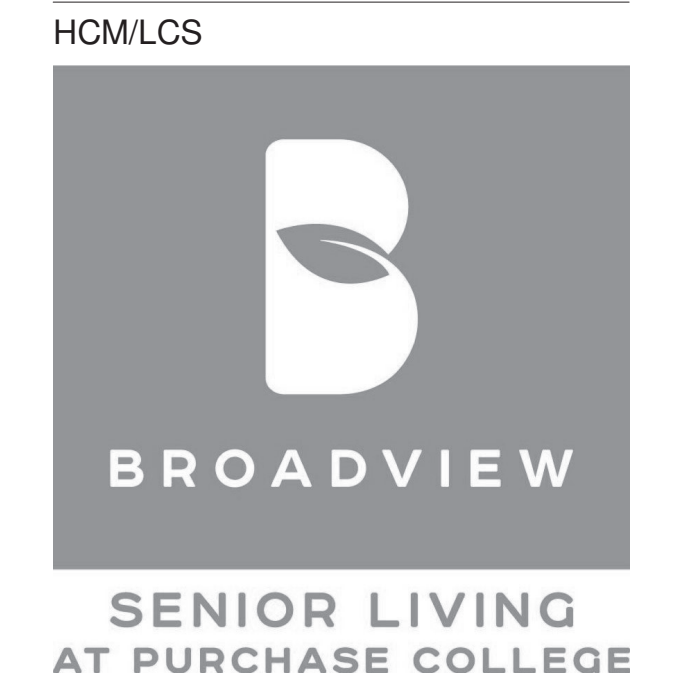
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 Scale  
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 Drawing  
 PLUMBING PLAN IL-WEST ROOF /  
 STORM & CONDENSATE

**P2.67**

1 ROOF STORM PIPING PLAN - WEST  
 P2.67 / 1/8" = 1'-0"



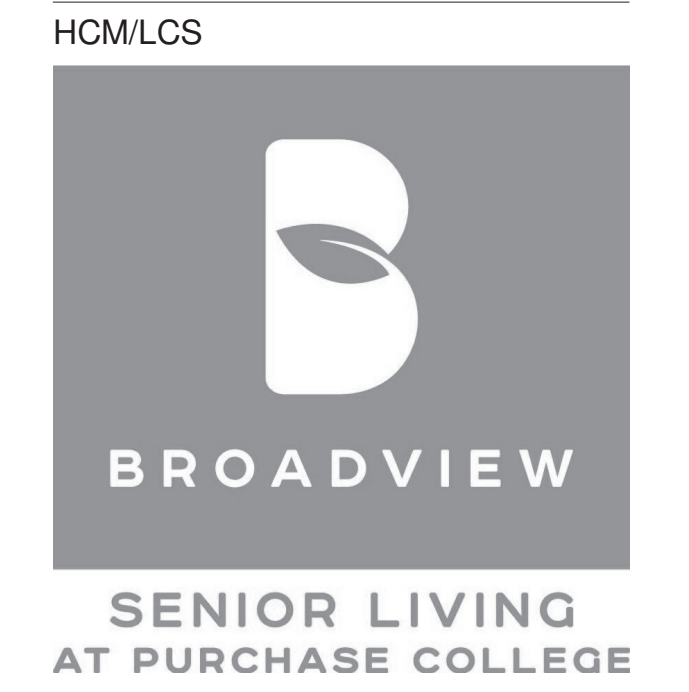
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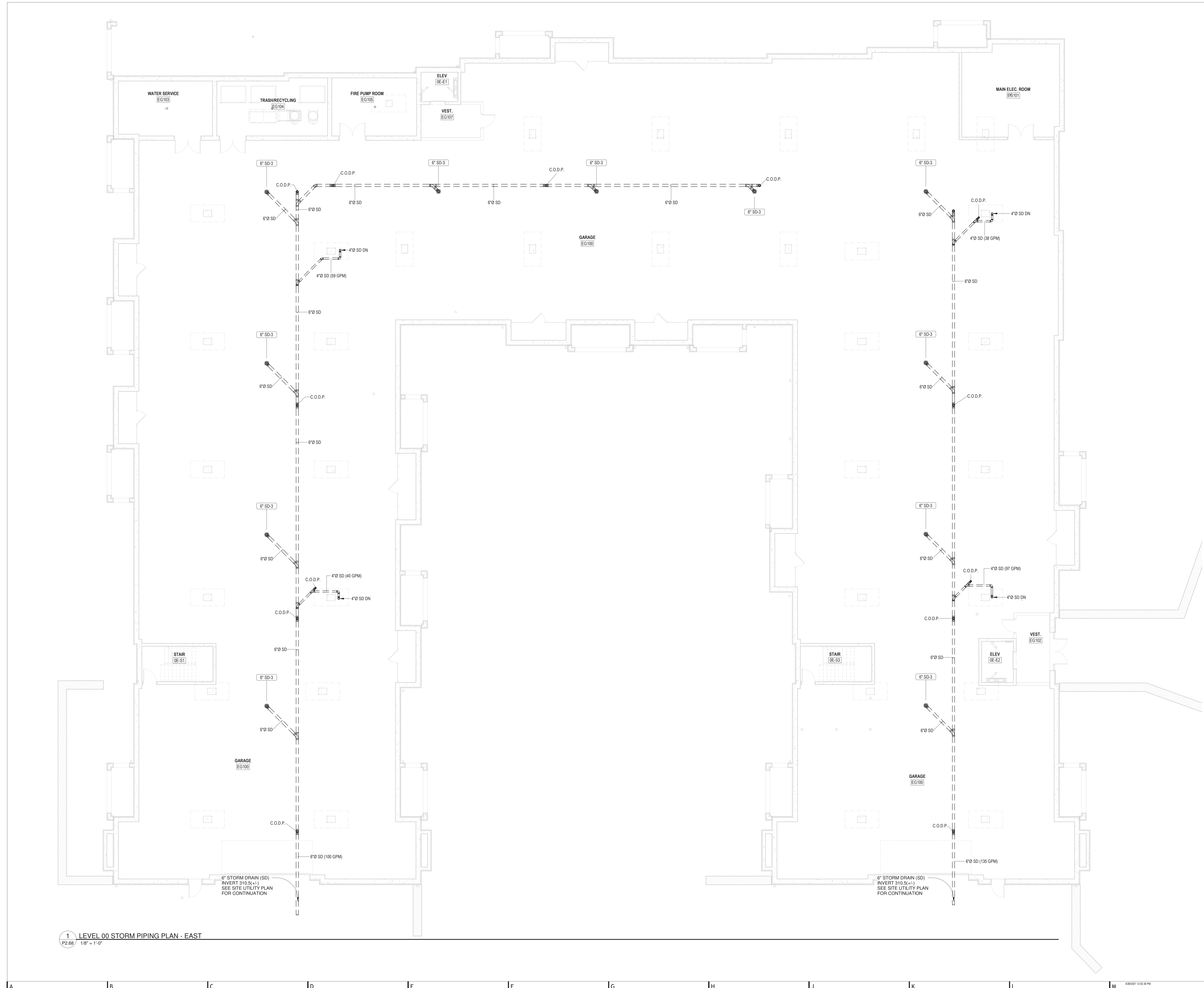
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 Drawing  
 PLUMBING PLAN IL-EAST  
 GARAGE SUBSLAB / STORM &  
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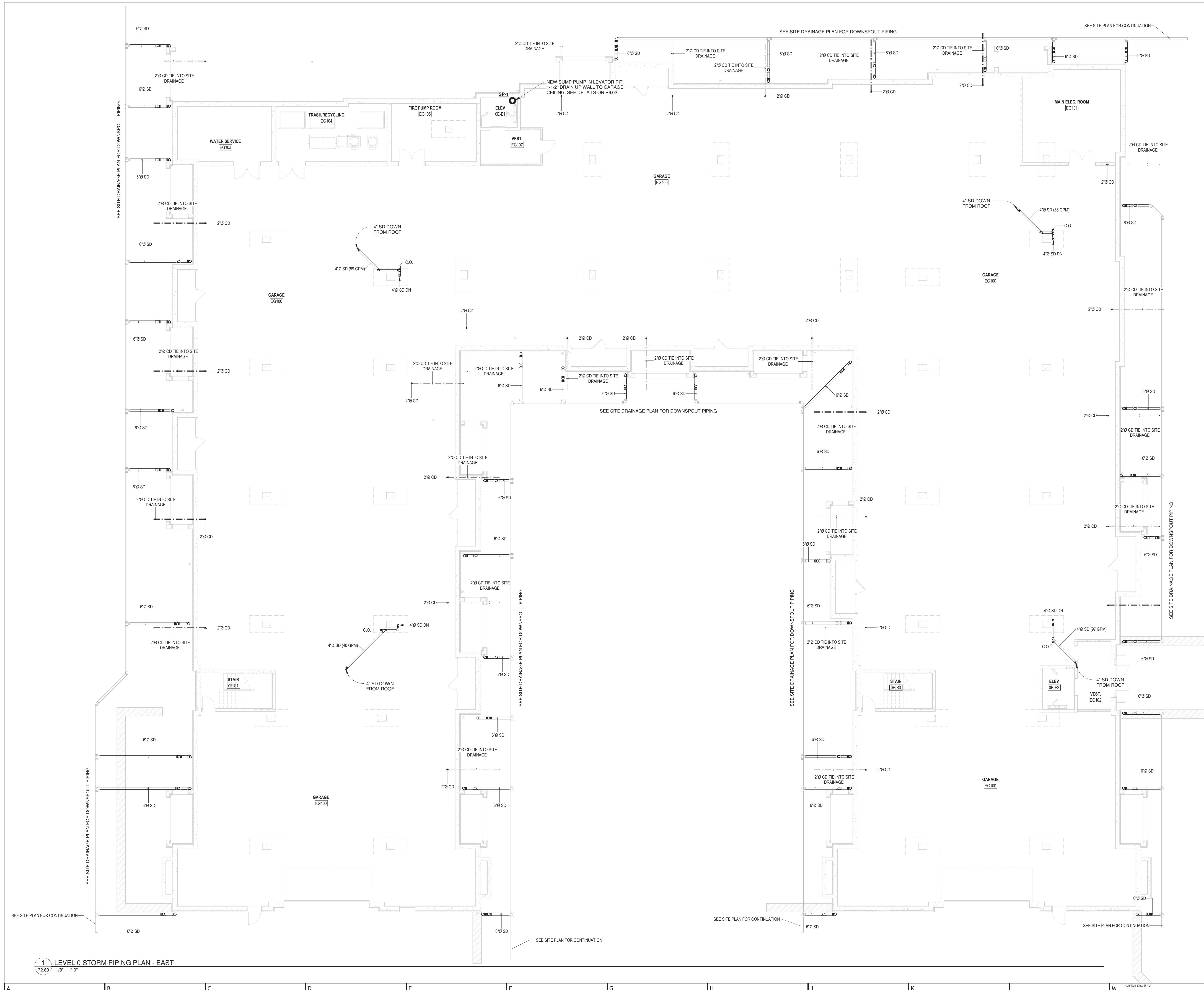
**P2.68**

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**1 LEVEL 00 STORM PIPING PLAN - EAST**  
 P2.68 / 1/8" = 1'-0"





1 LEVEL 0 STORM PIPING PLAN - EAST  
P2.69 1/8" = 1'-0"

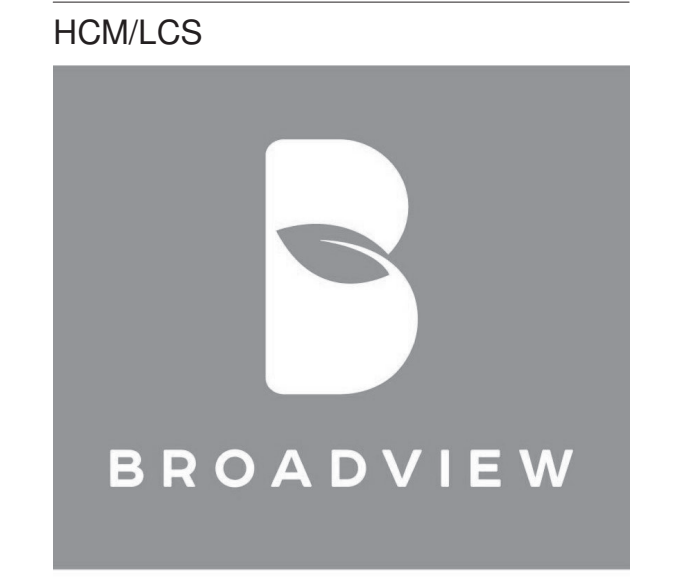
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SENIOR LIVING  
 AT PURCHASE COLLEGE

BROADVIEW - SENIOR LIVING AT  
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 Project Number  
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 Date  
 4/30/2021  
 Scale  
 1/8" = 1'-0"  
 Drawing  
 PLUMBING PLAN IL-EAST  
 GARAGE / STORM &  
 CONDENSATE

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1 LEVEL 3 STORM PIPING PLAN - EAST  
P2.72 / 1/8" = 1'-0"

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PLUMBING PLAN IL-EAST LEVEL 3 / STORM & CONDENSATE

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1 LEVEL 4 STORM PIPING PLAN - EAST  
P2.73 1/8" = 1'-0"

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 Drawing  
 PLUMBING PLAN IL-EAST LEVEL 4  
 / STORM & CONDENSATE

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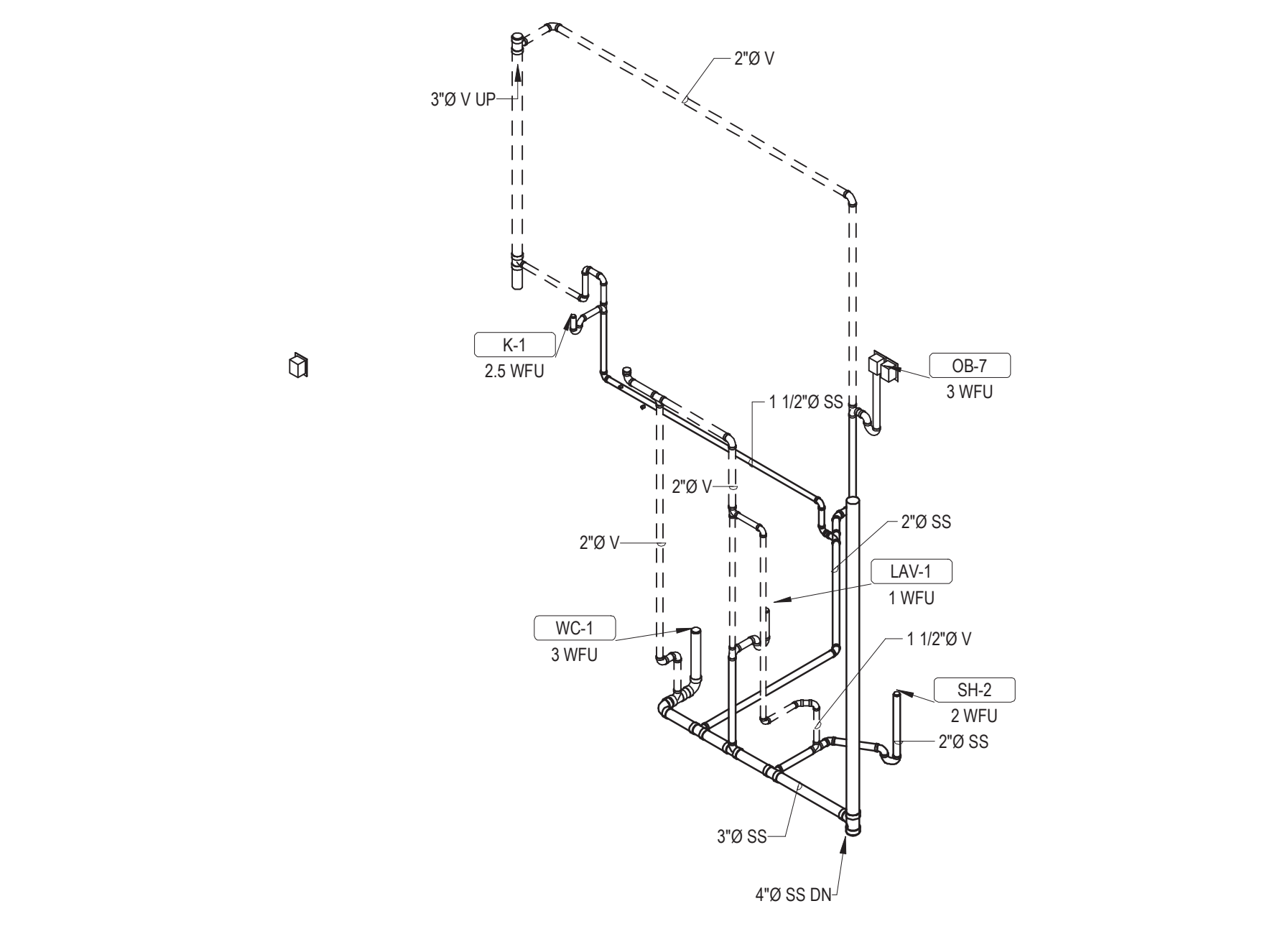




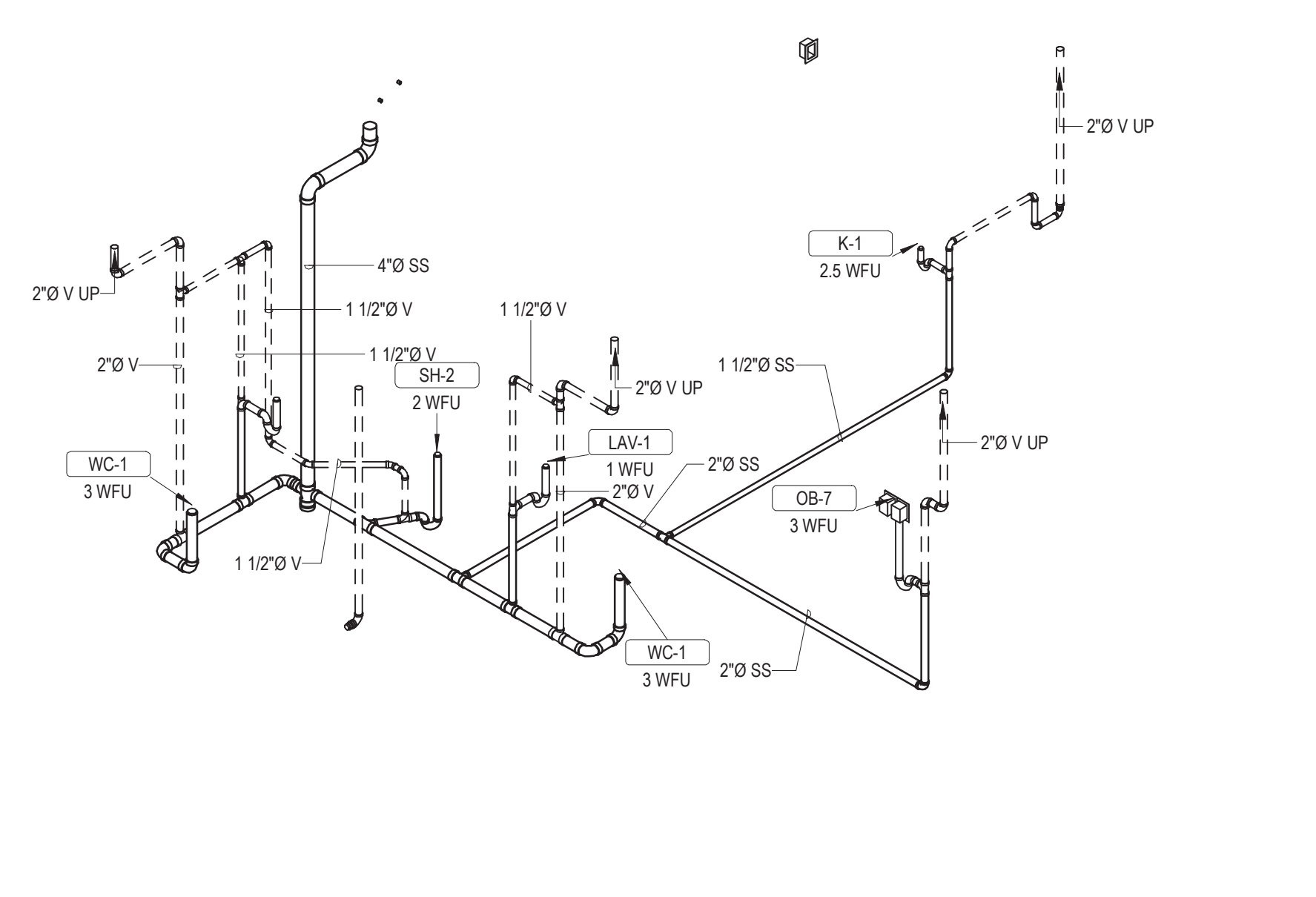




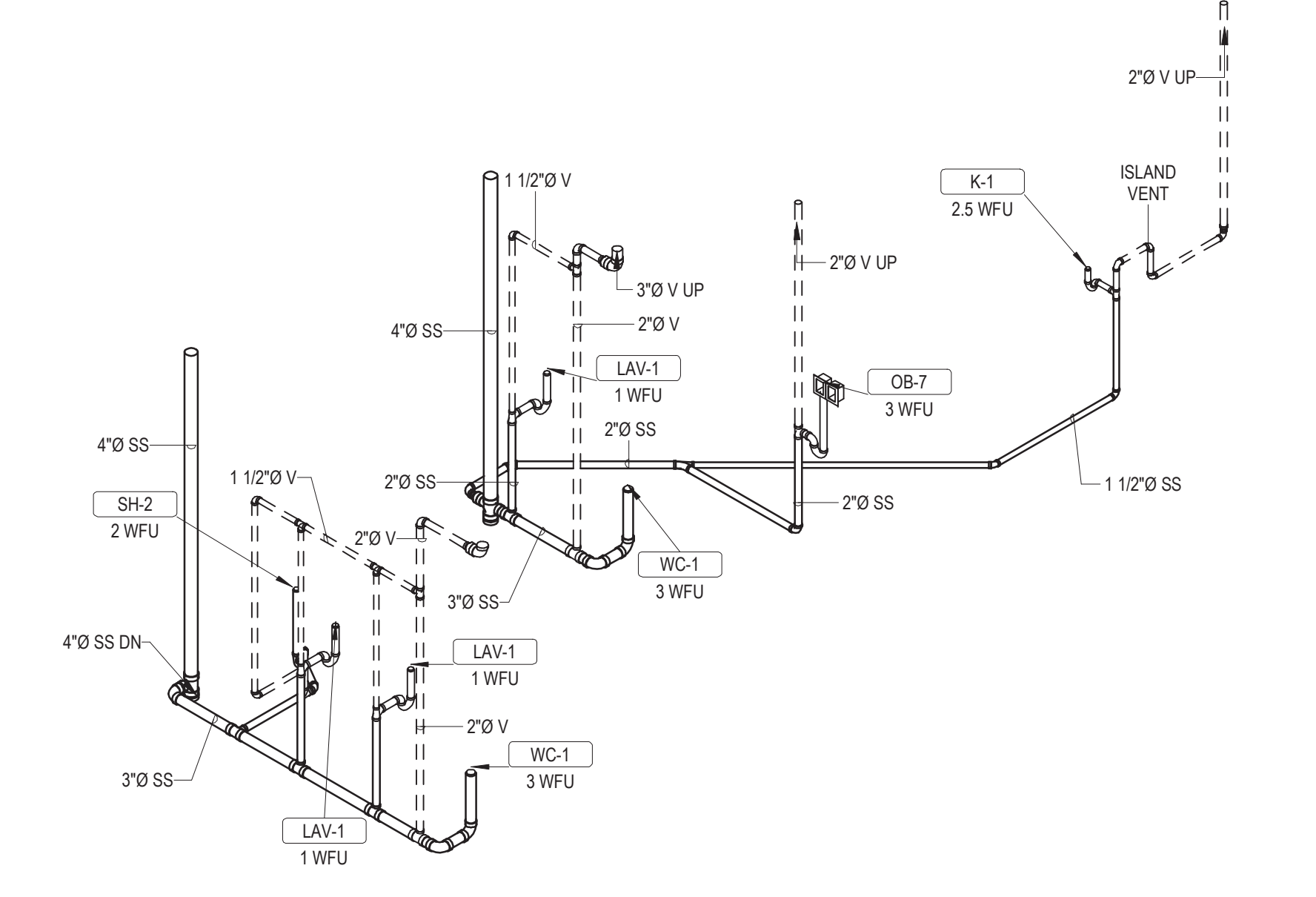




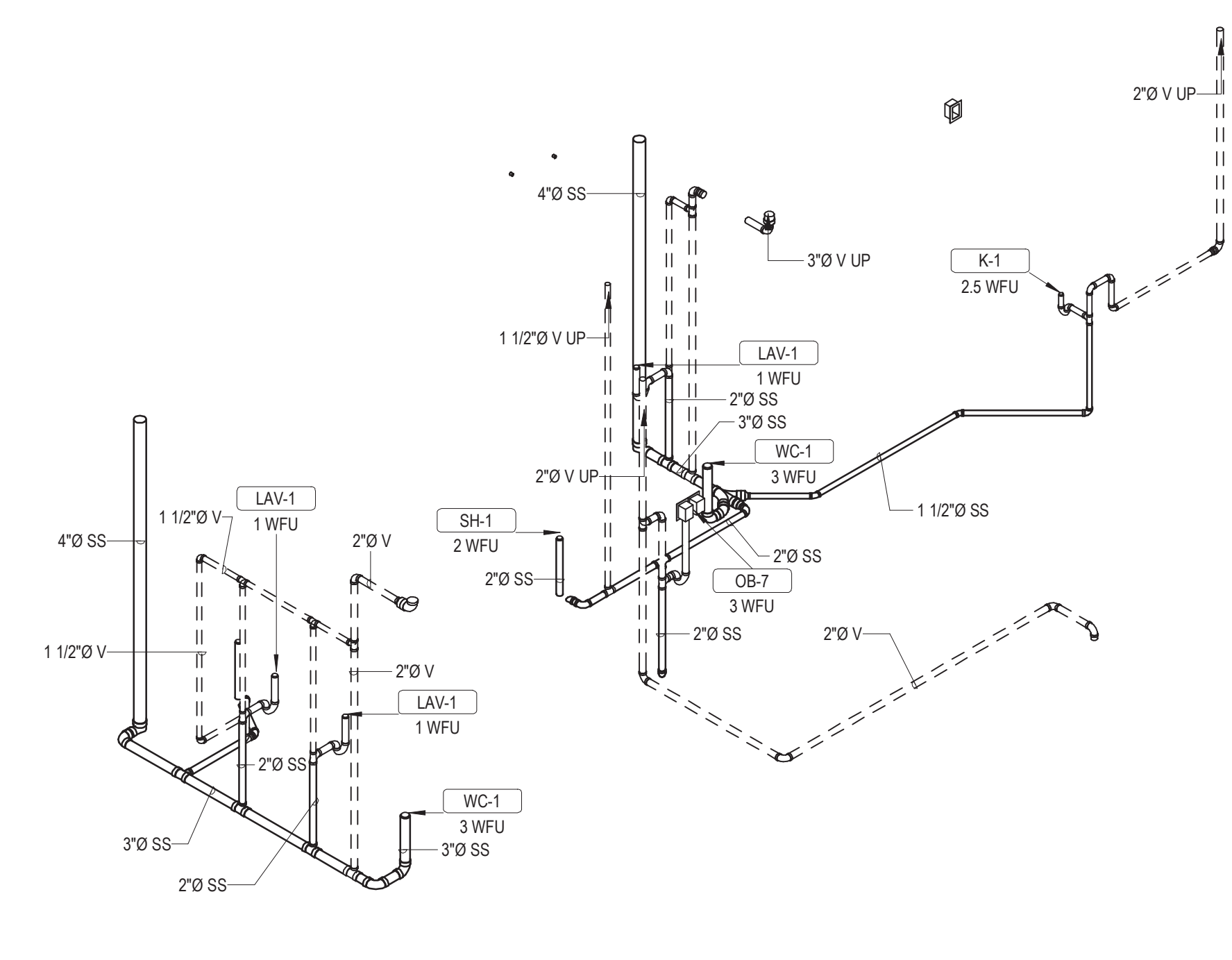
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P5.03



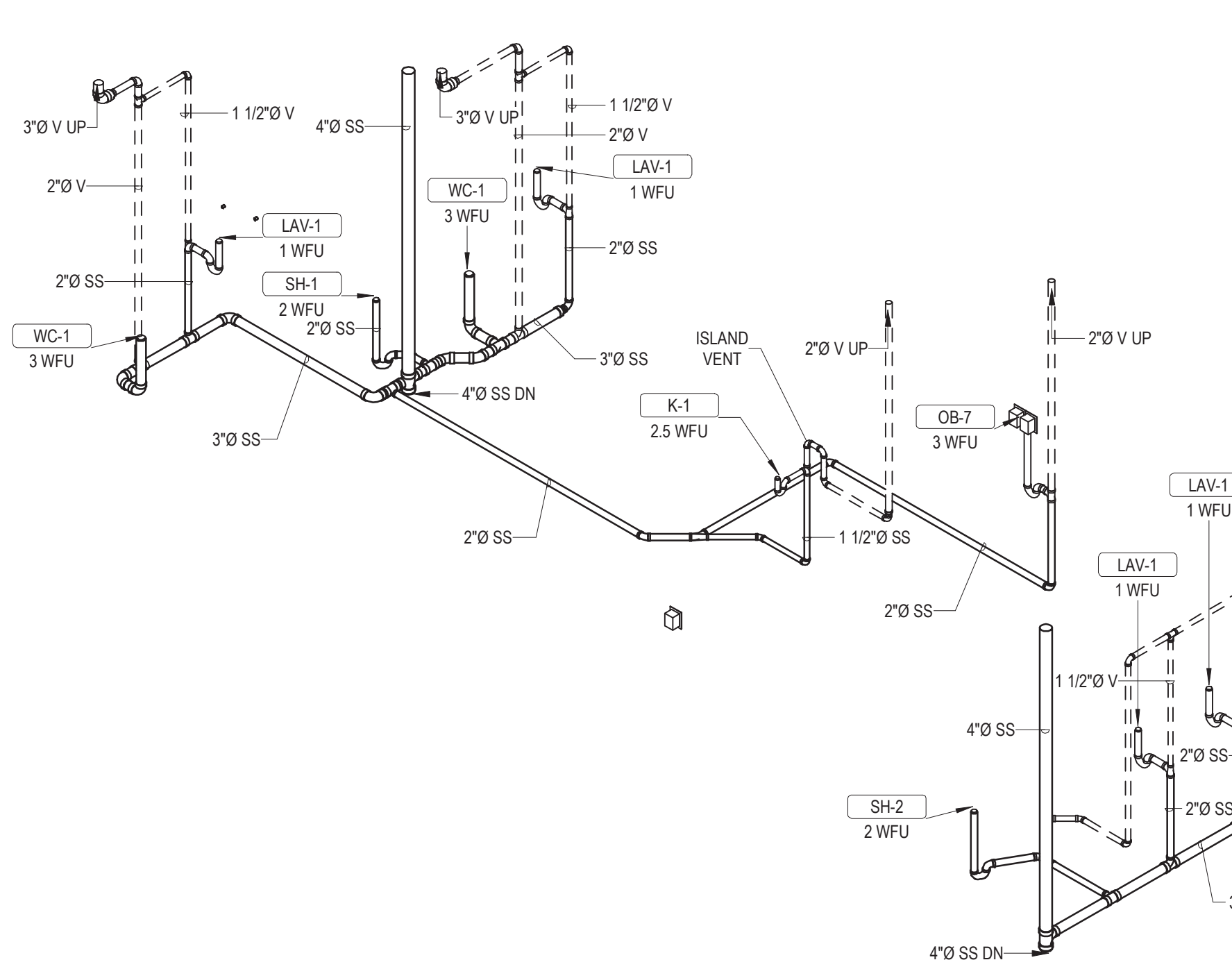
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P5.03



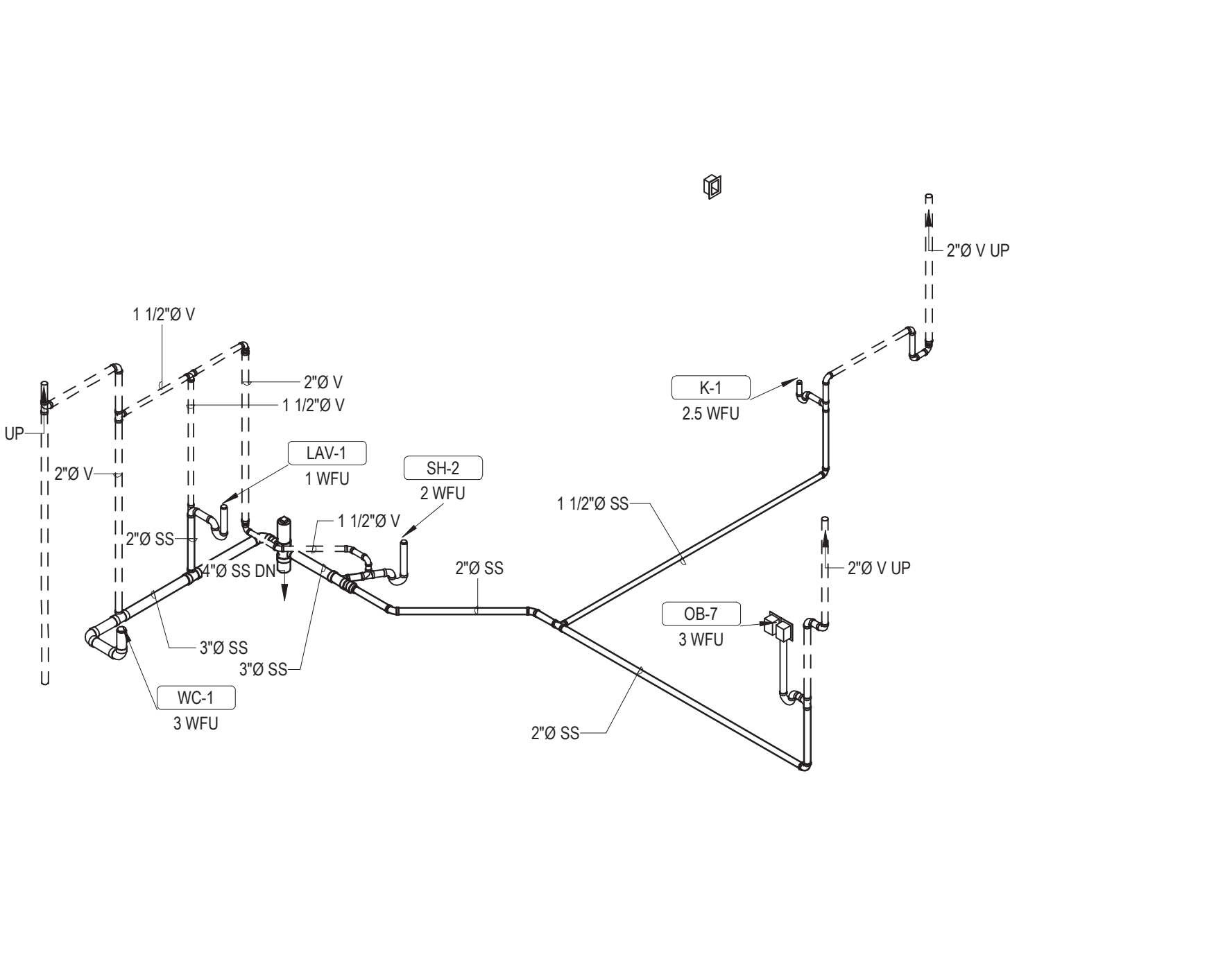
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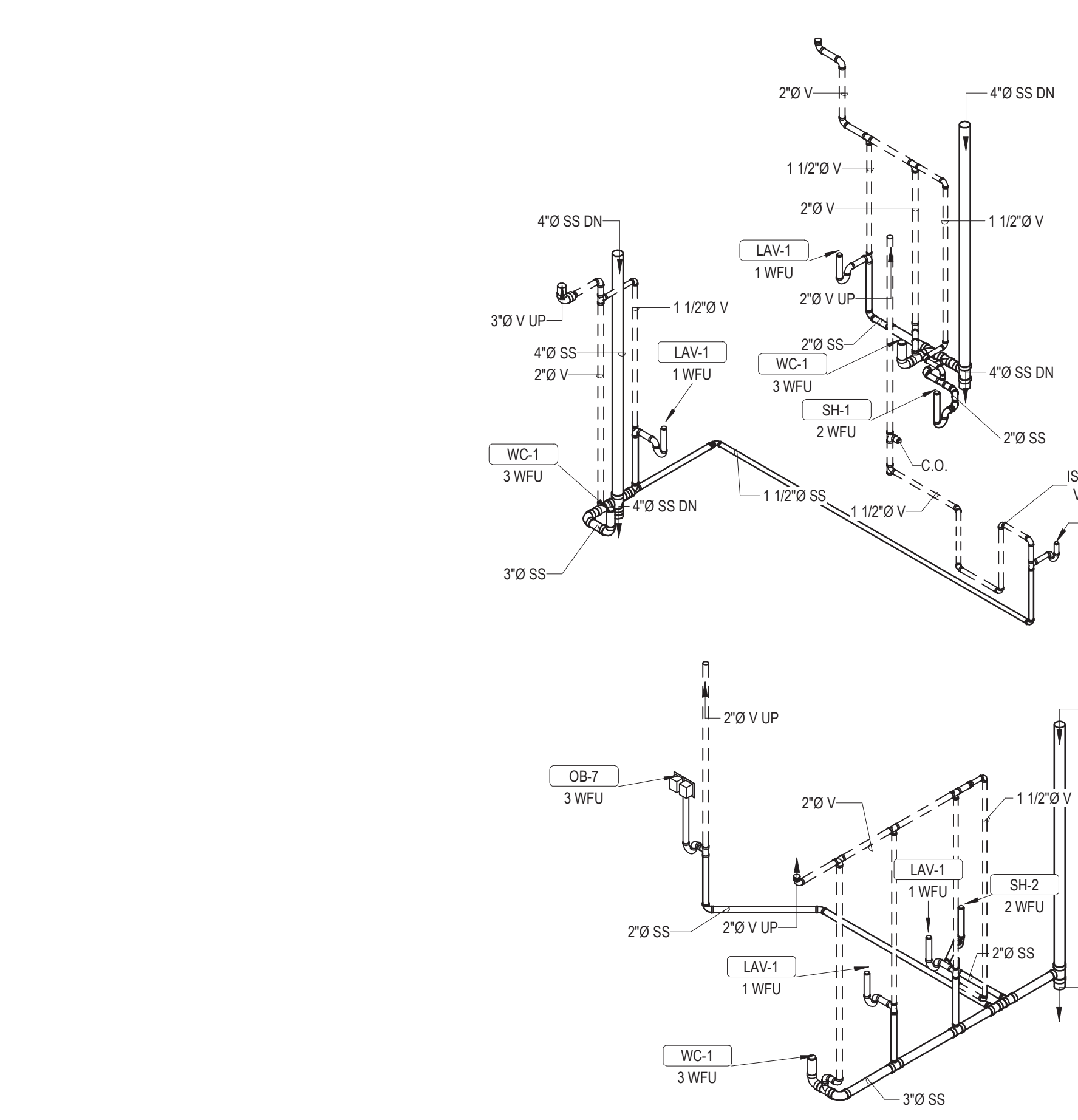
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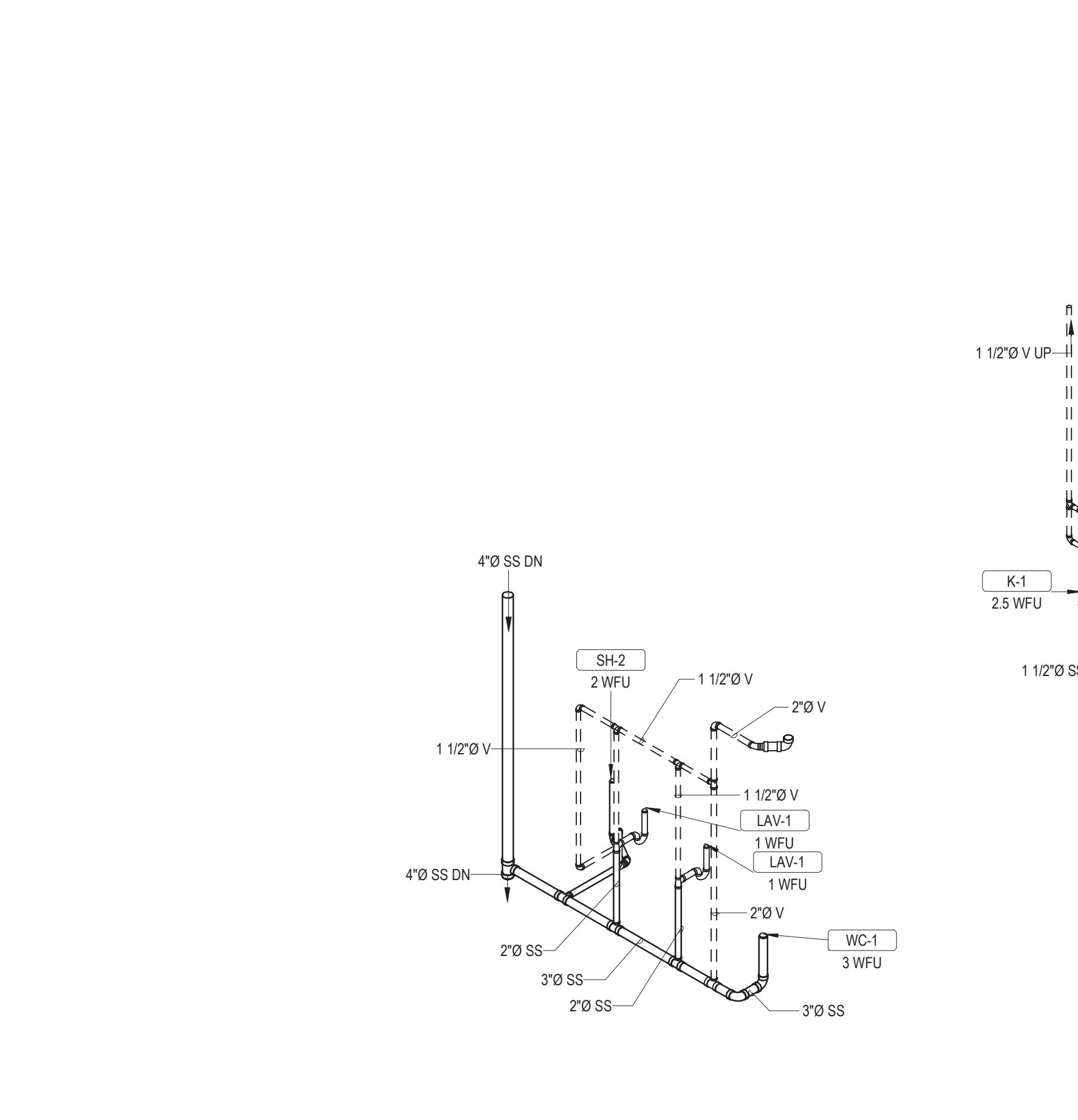
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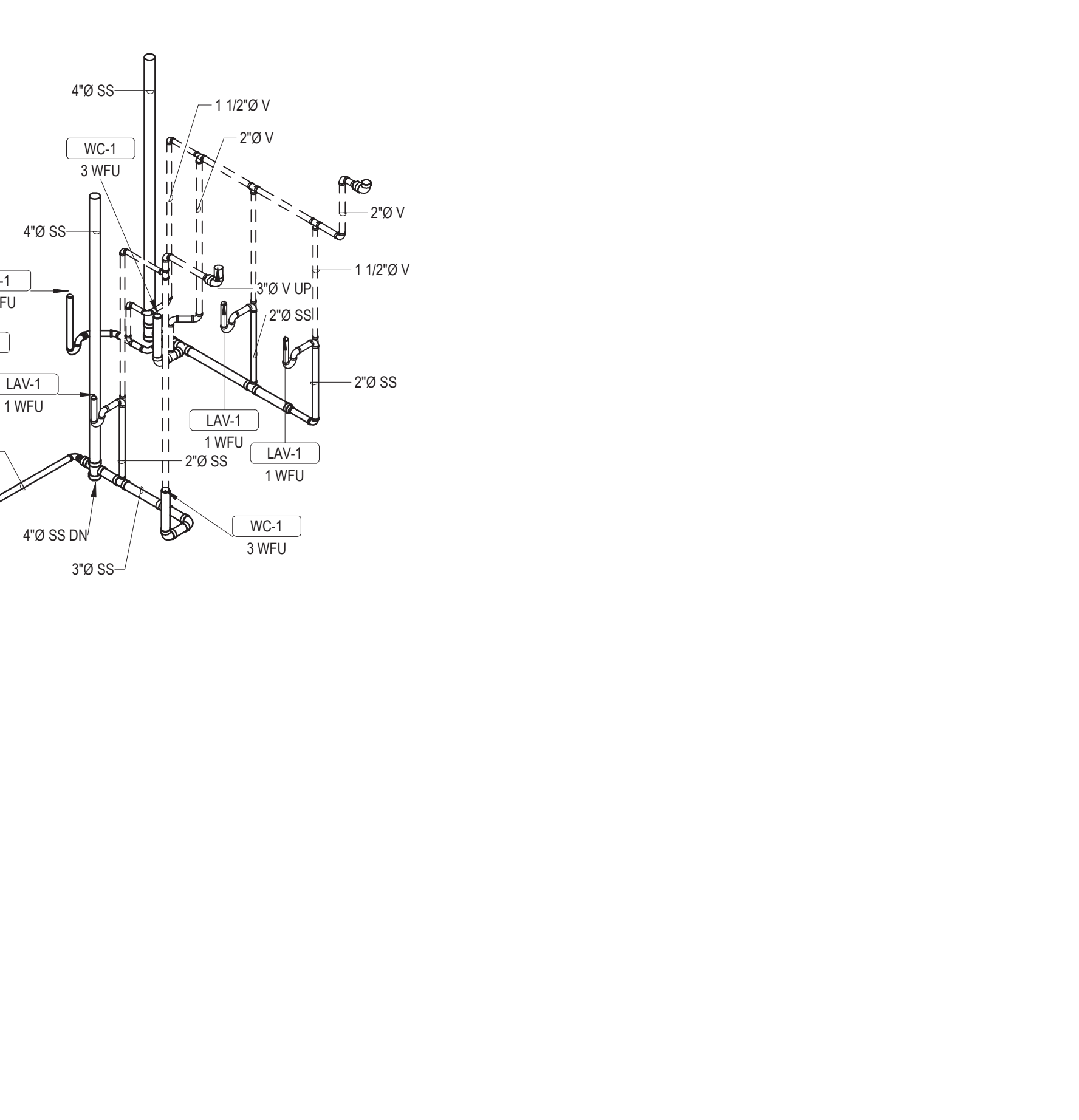
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P5.03



7 ENLARGED UNIT G - SANITARY & VENTING  
P5.03



8 ENLARGED UNIT H - SANITARY & VENTING  
P5.03



6 ENLARGED UNIT C2 - SANITARY & VENTING  
P5.03

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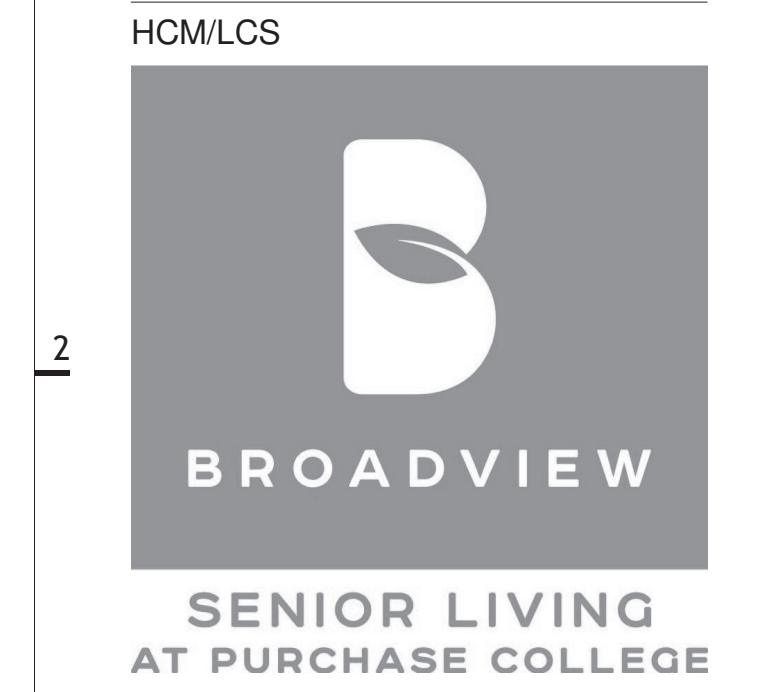
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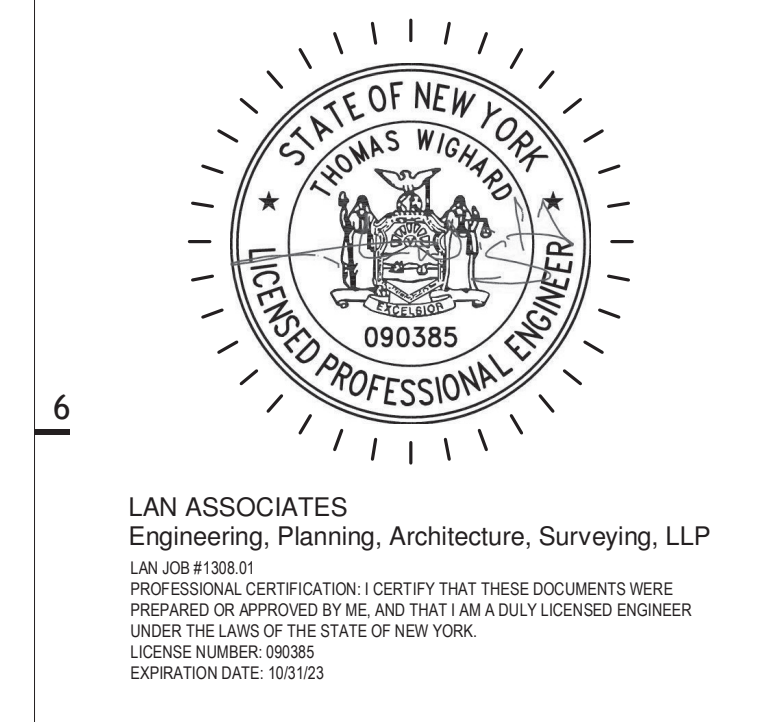
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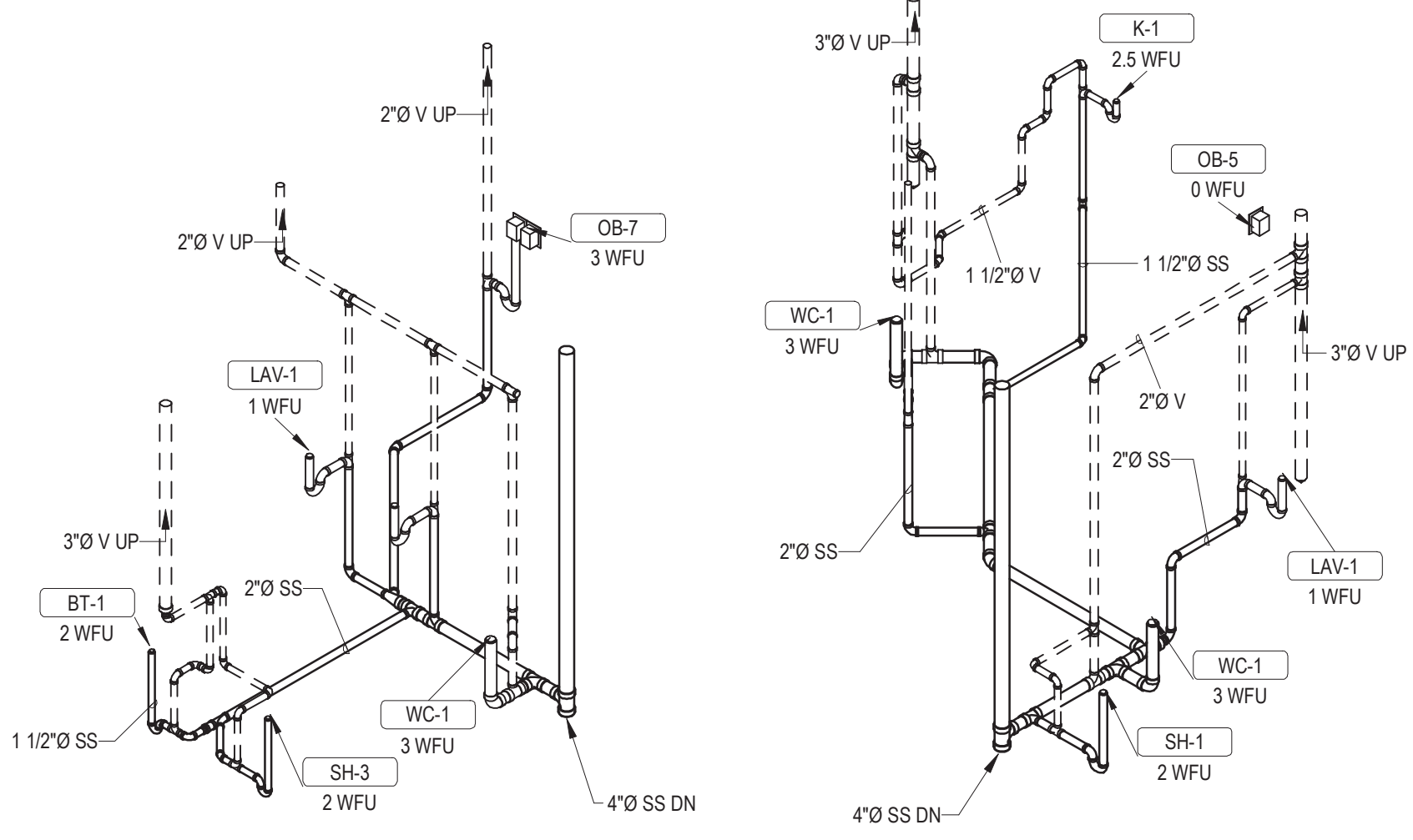
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 SANITARY SEWER PIPING RISER DIAGRAM - ENLARGED UNIT RISERS I

**P5.03**

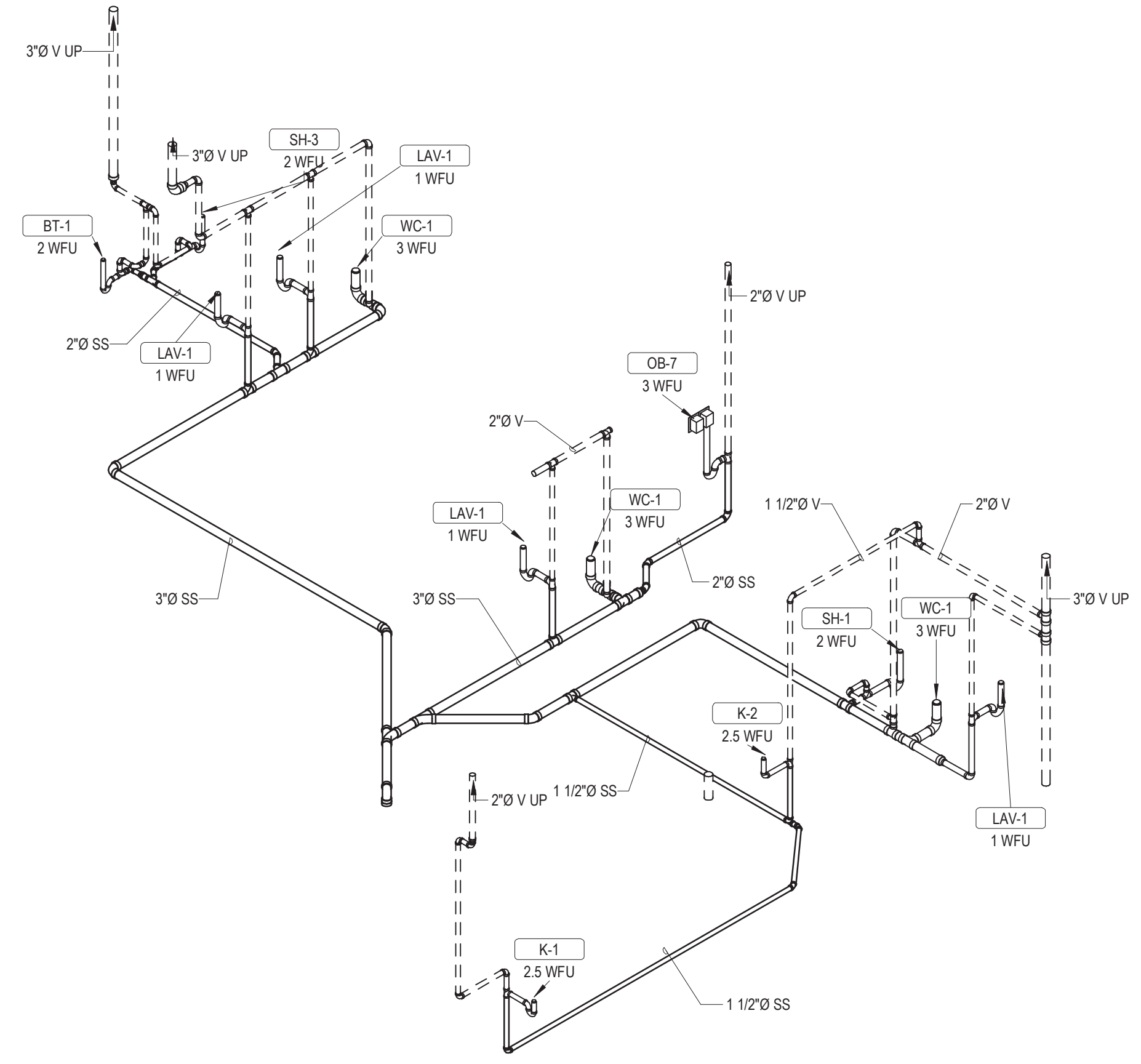
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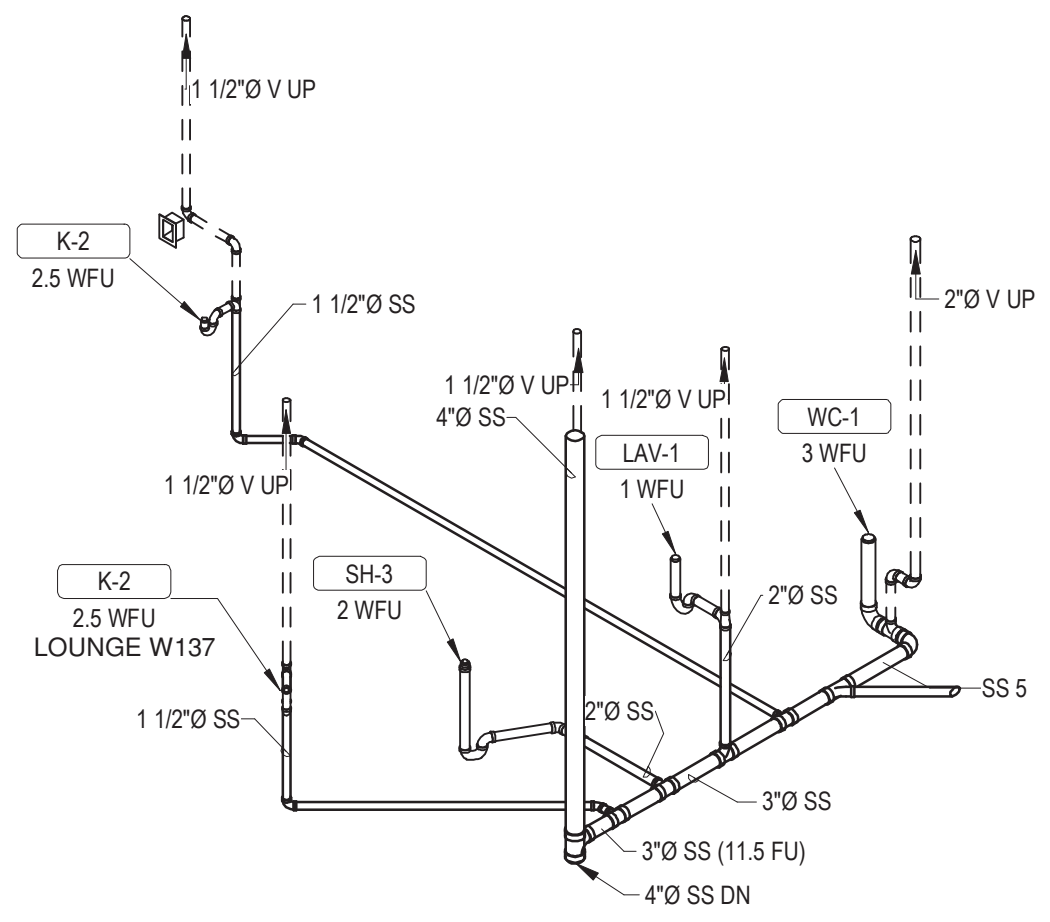




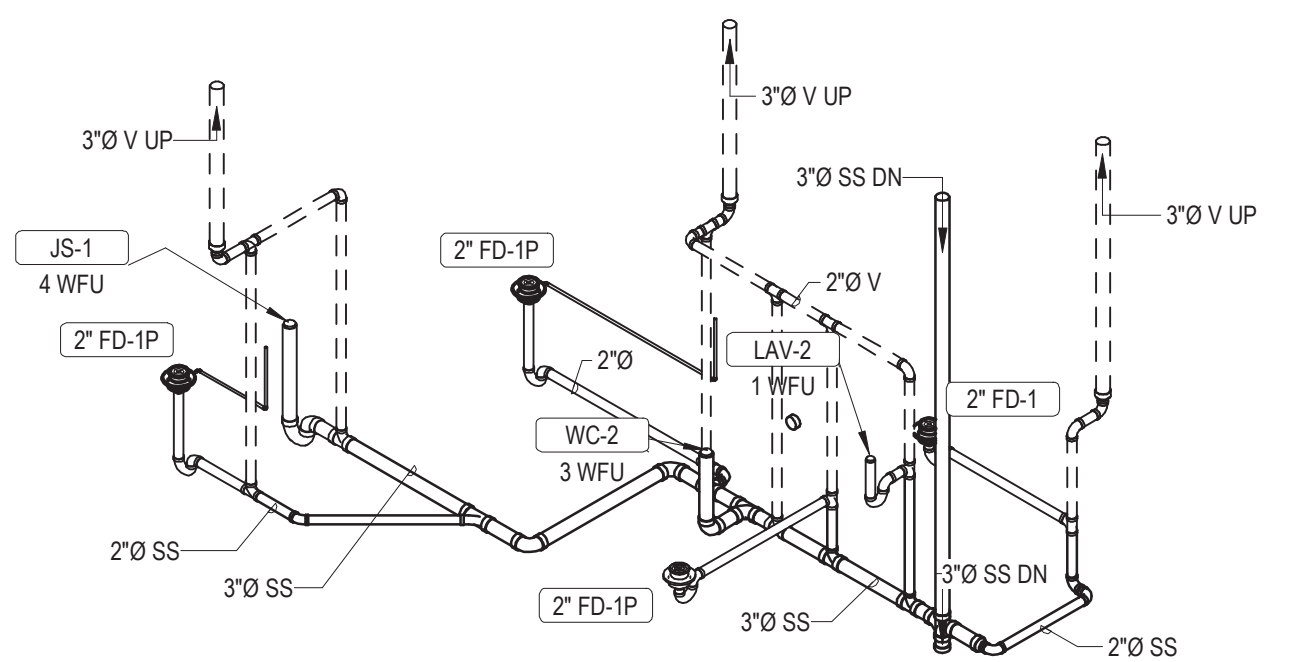
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P5.04



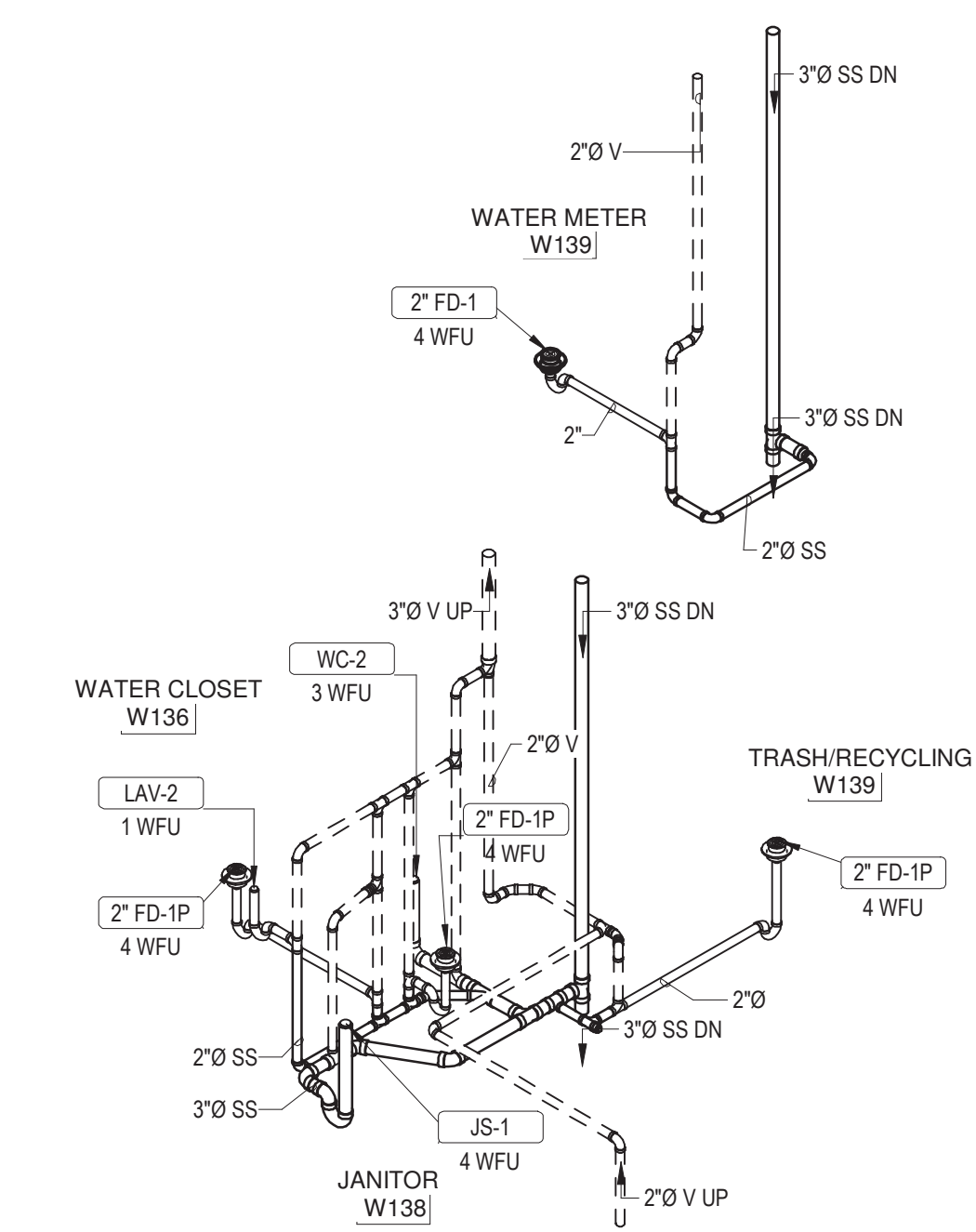
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P5.04



**3 ENLARGED UNIT GUEST - SANITARY & VENTING**  
P5.04



**4 ENLARGED BACK OF HOUSE EAST LEVEL 1 - SANITARY & VENTING**  
P5.04



**5 ENLARGED BACK OF HOUSE WEST LEVEL 1 - SANITARY & VENTING**  
P5.04

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Drawing  
SANITARY SEWER PIPING RISER DIAGRAM - ENLARGED UNIT RISERS II

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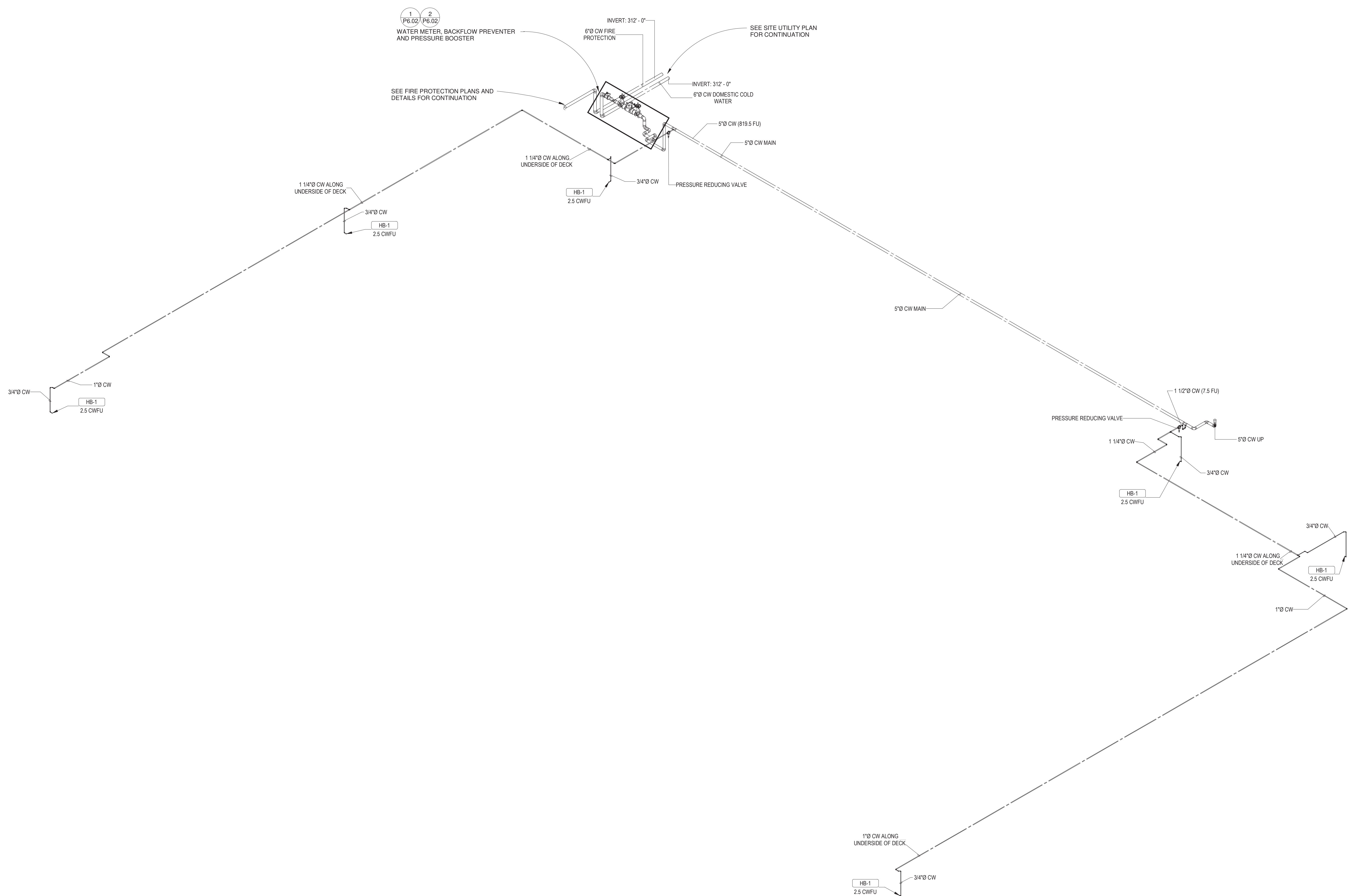
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 Project Number  
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 4/30/2021  
 Scale

Drawing  
 DOMESTIC WATER RISER DIAGRAM - WEST GARAGE

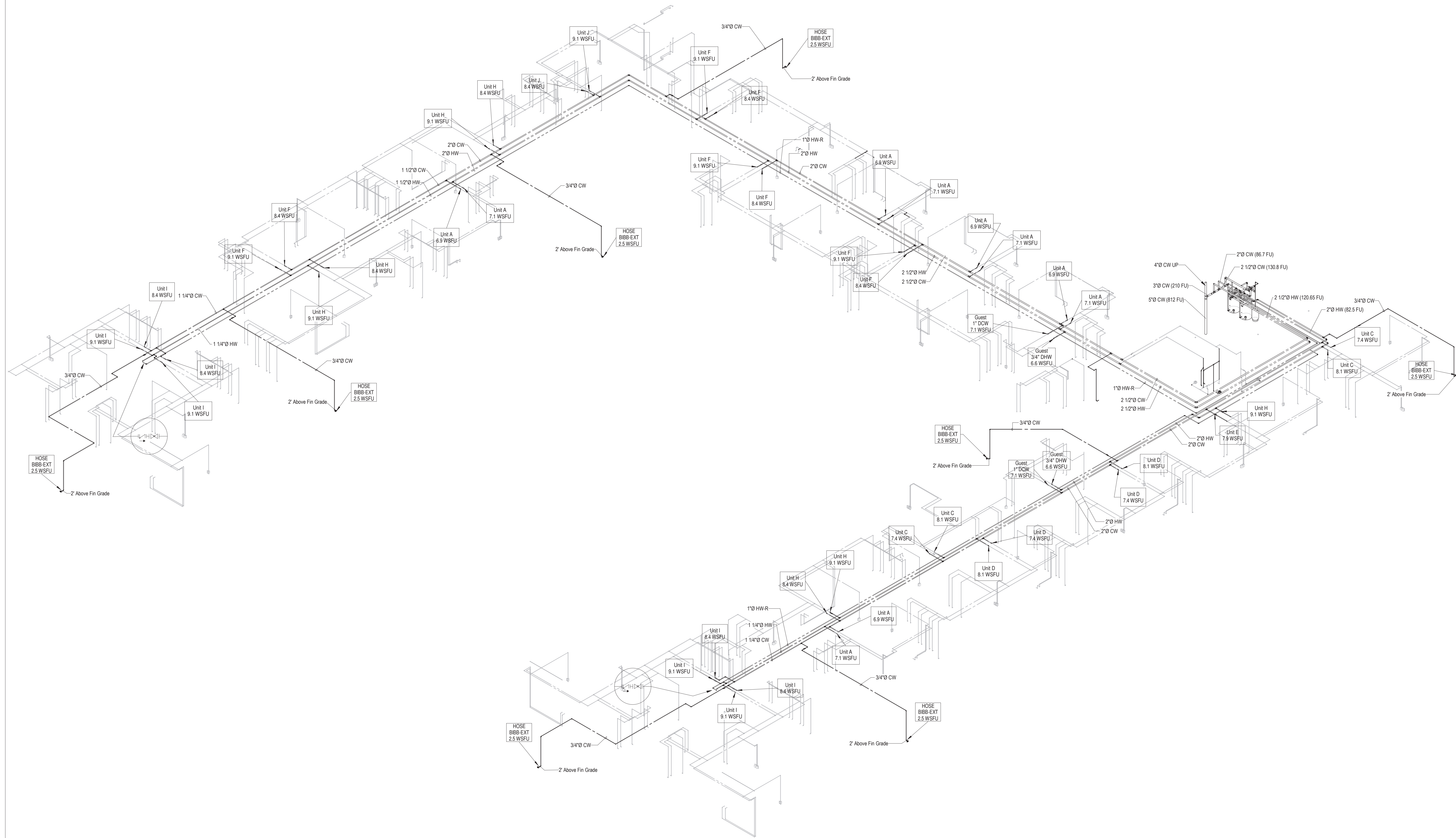
**P5.11**

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1 LEVEL 0 DOMESTIC WATER RISER - WEST  
 PS-11





1 LEVEL 1 DOMESTIC WATER RISER - WEST

P5.12

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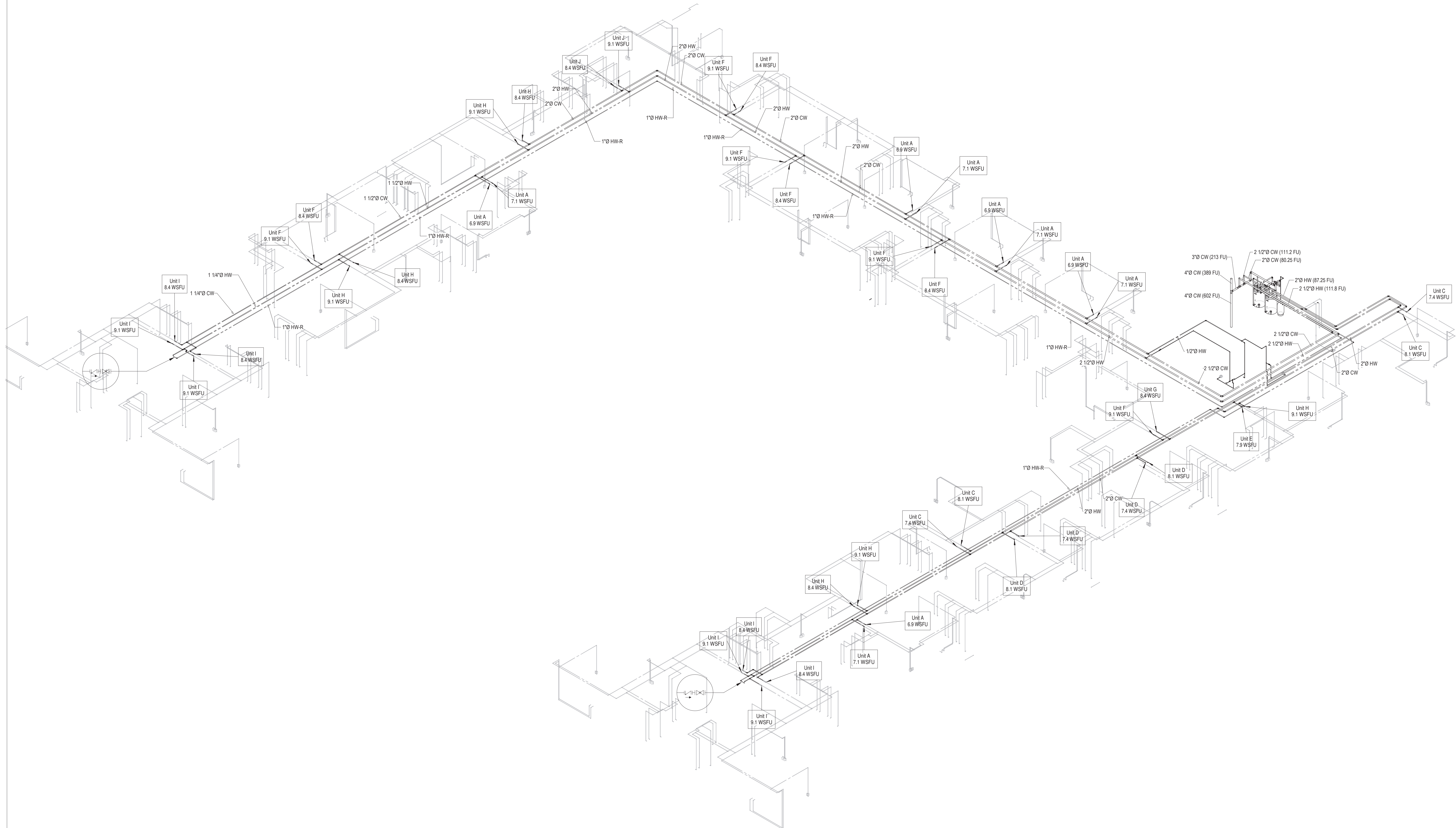
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Drawing  
 DOMESTIC WATER RISER  
 DIAGRAM - WEST LEVEL 1

**P5.12**

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1 LEVEL 2 DOMESTIC WATER RISER - WEST

P5.13

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 4.1308.01

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 4/30/2021

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Drawing  
 DOMESTIC WATER RISER DIAGRAM - WEST LEVEL 2

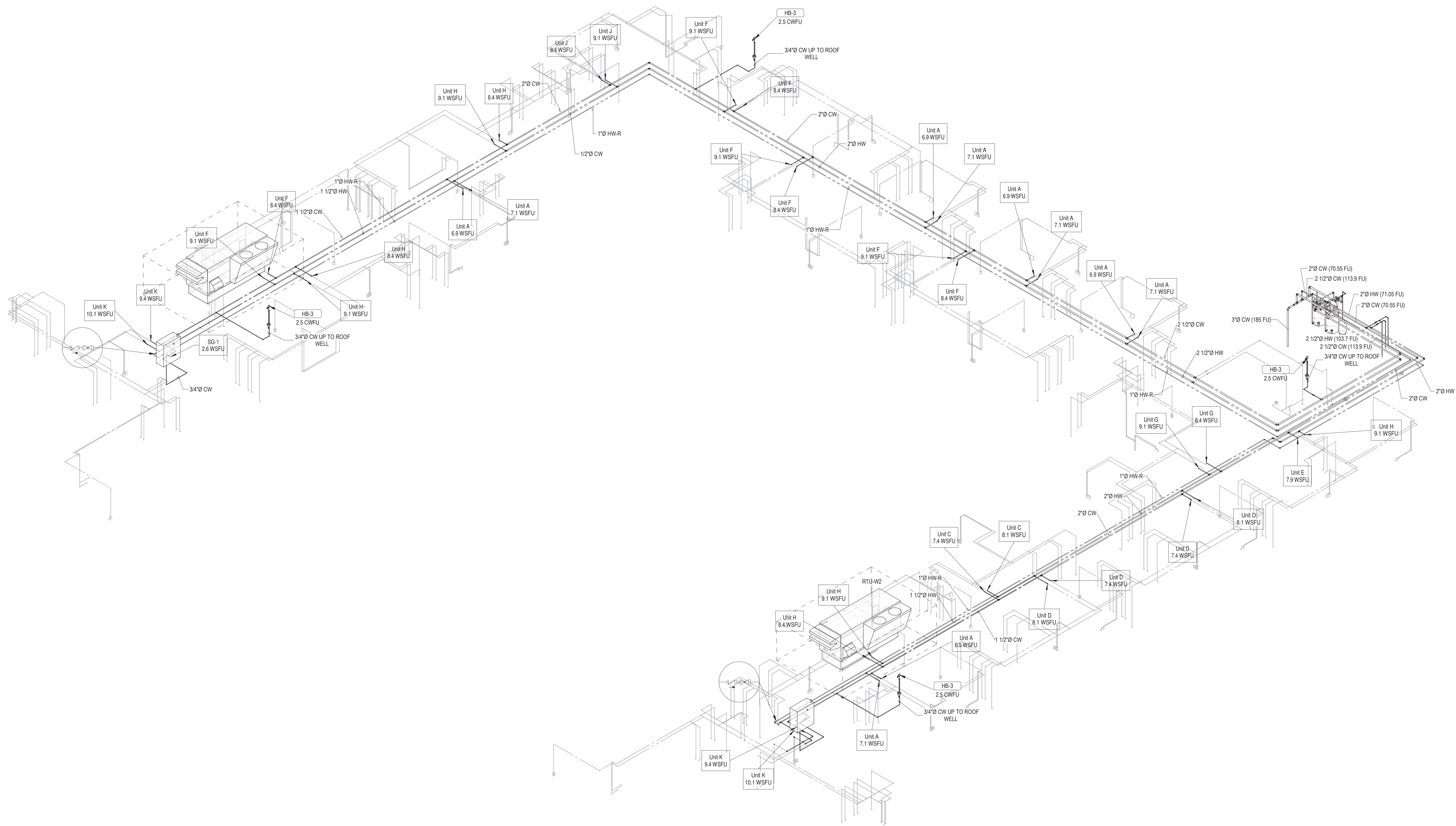
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1 LEVEL 4 DOMESTIC WATER RISER - WEST  
P5.15

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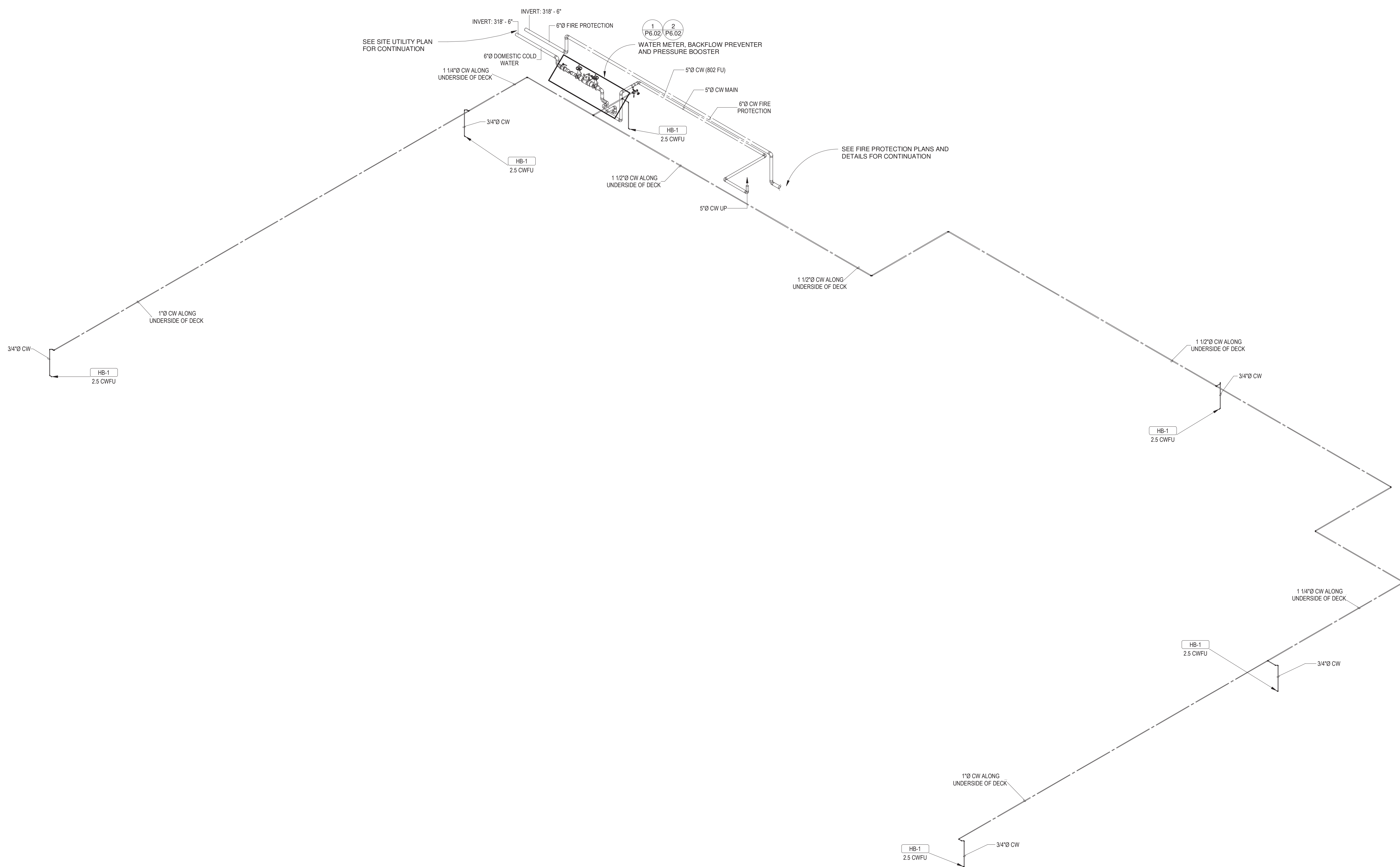
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Drawing  
 DOMESTIC WATER RISER DIAGRAM - WEST LEVEL 4 & ROOF

**P5.15**

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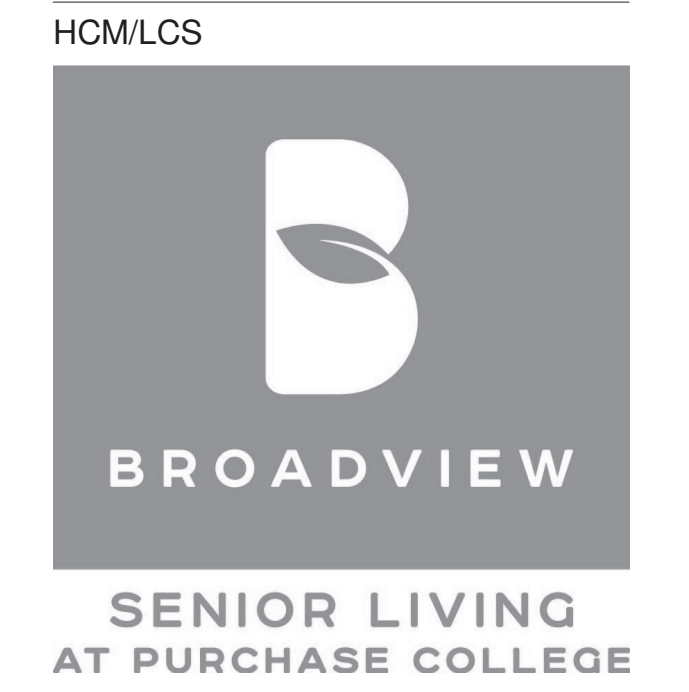
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**4.1308.01**  
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 Scale

Drawing  
**DOMESTIC WATER RISER DIAGRAM - EAST GARAGE**

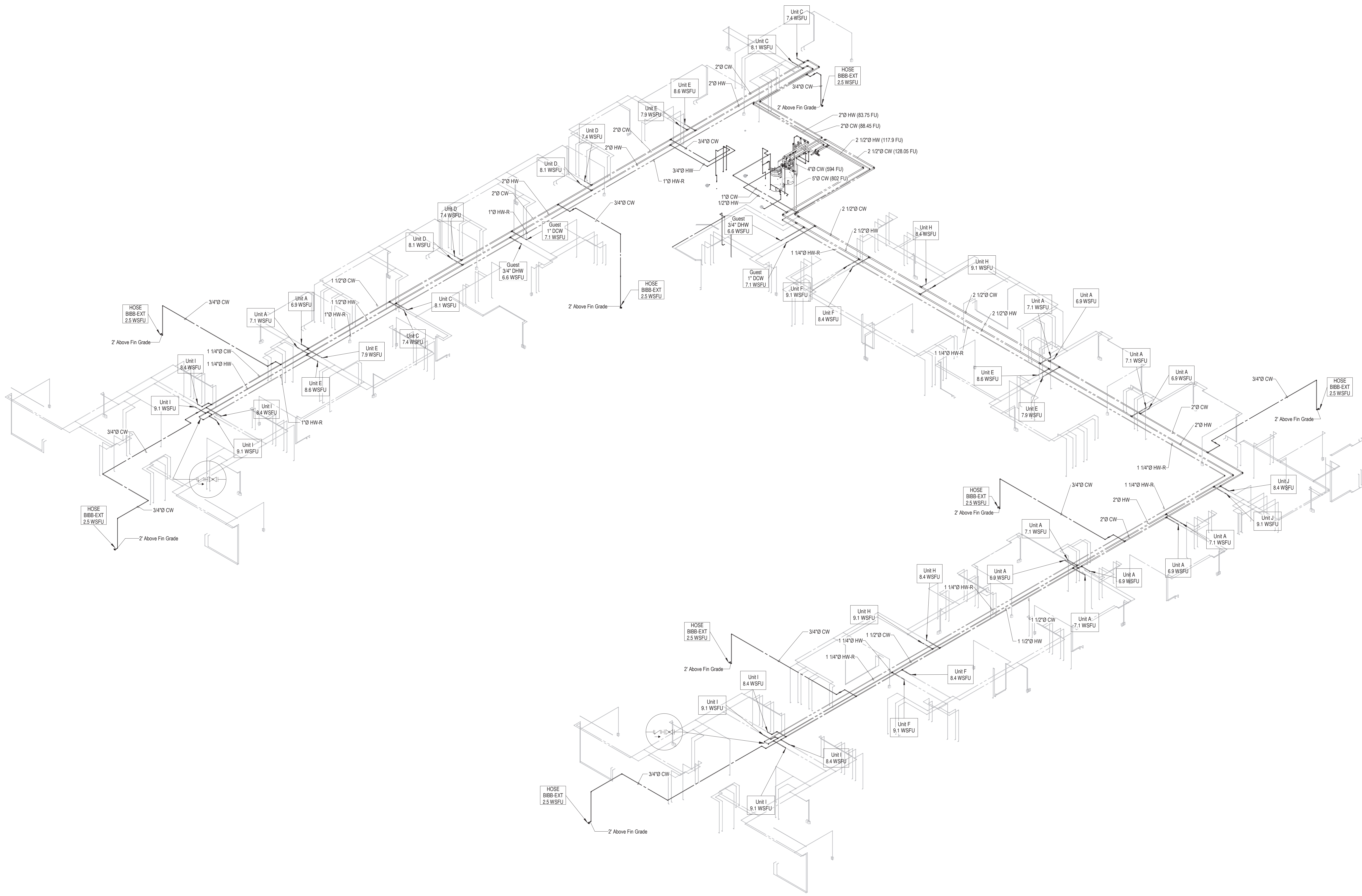
**P5.17**

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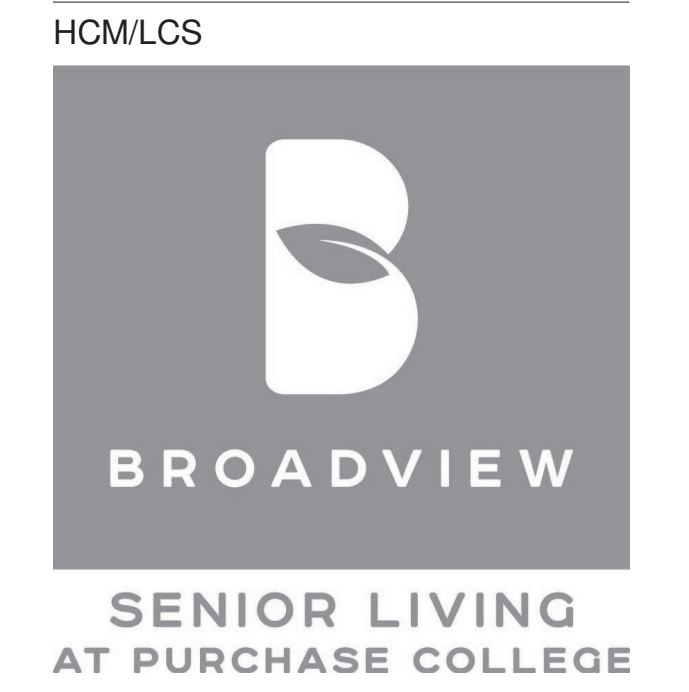
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 P5.17  
**LEVEL 0 DOMESTIC WATER RISER - EAST**





1 LEVEL 1 DOMESTIC WATER RISER - EAST  
 P5.18

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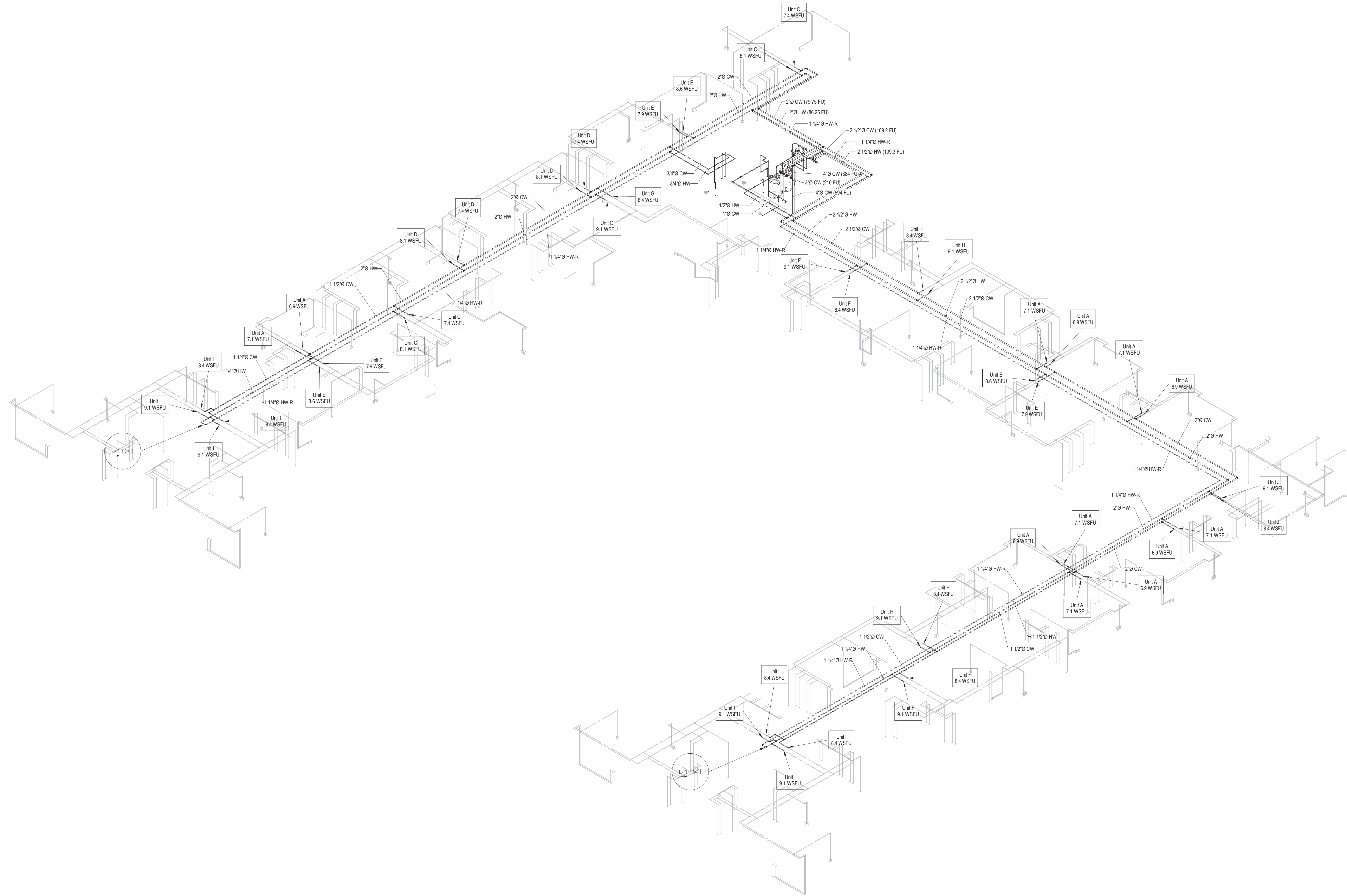
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Drawing  
 DOMESTIC WATER RISER  
 DIAGRAM - EAST LEVEL 1

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1 LEVEL 2 DOMESTIC WATER RISER - EAST  
P5.19

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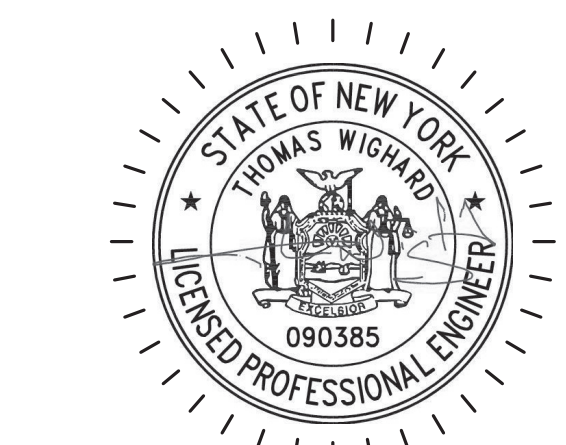
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Drawing  
 DOMESTIC WATER RISER  
 DIAGRAM - EAST LEVEL 2

**P5.19**

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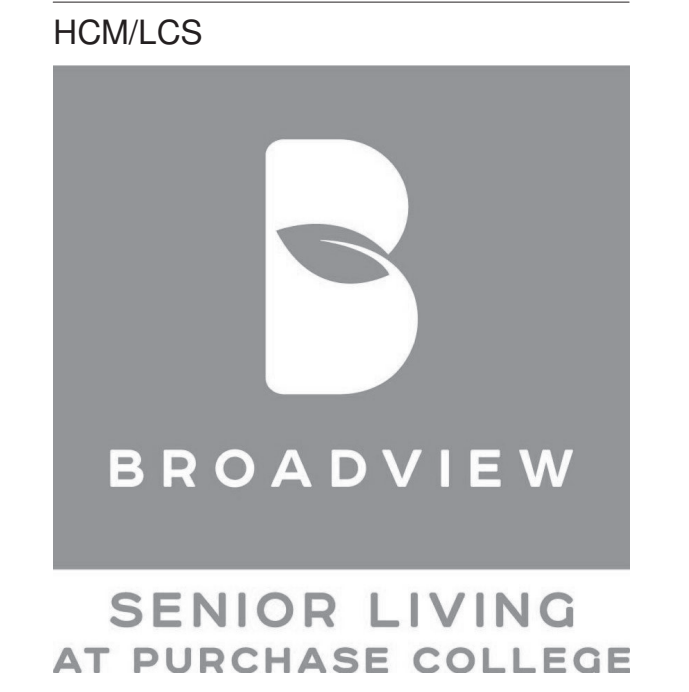
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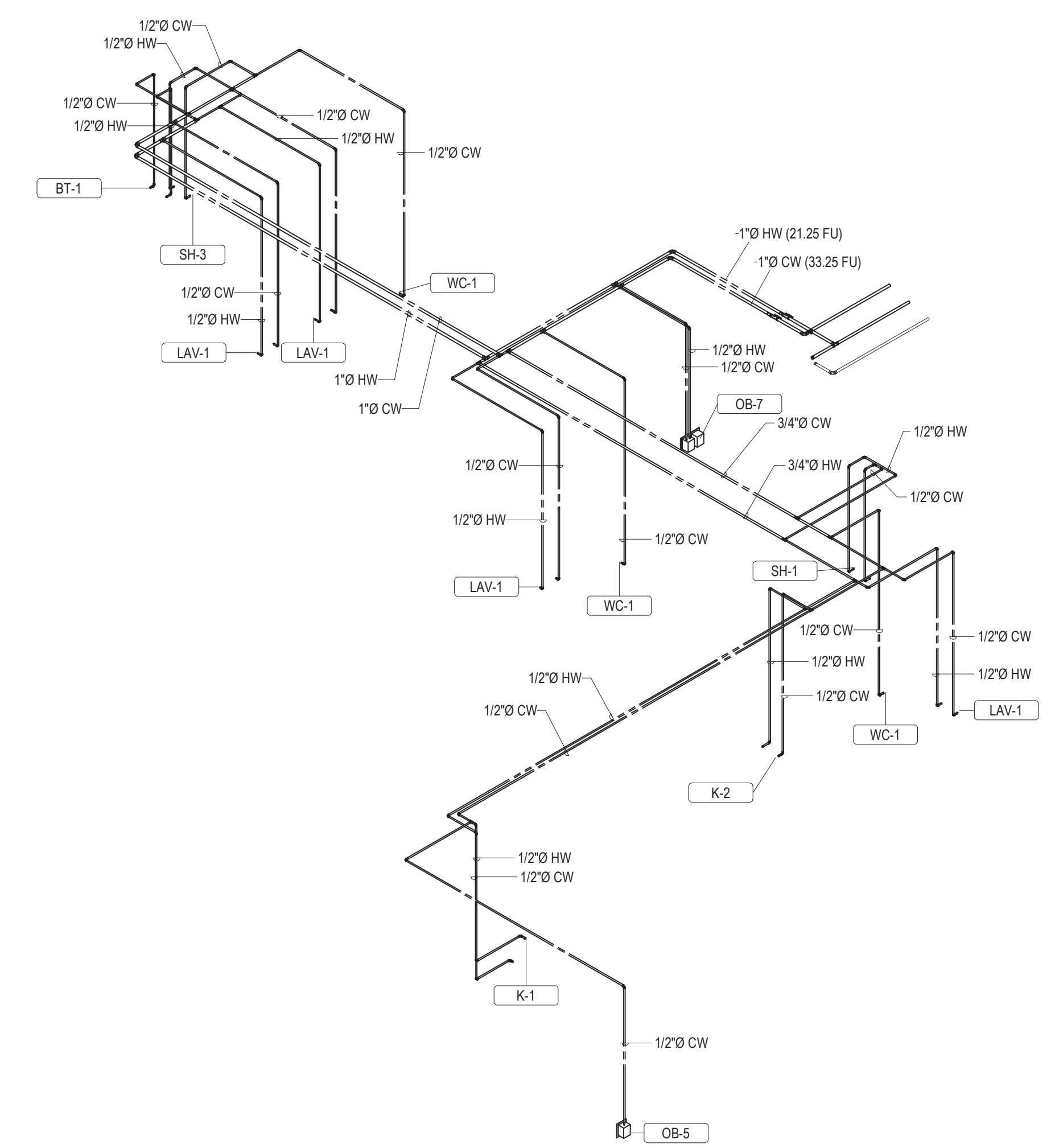
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**4/30/2021**  
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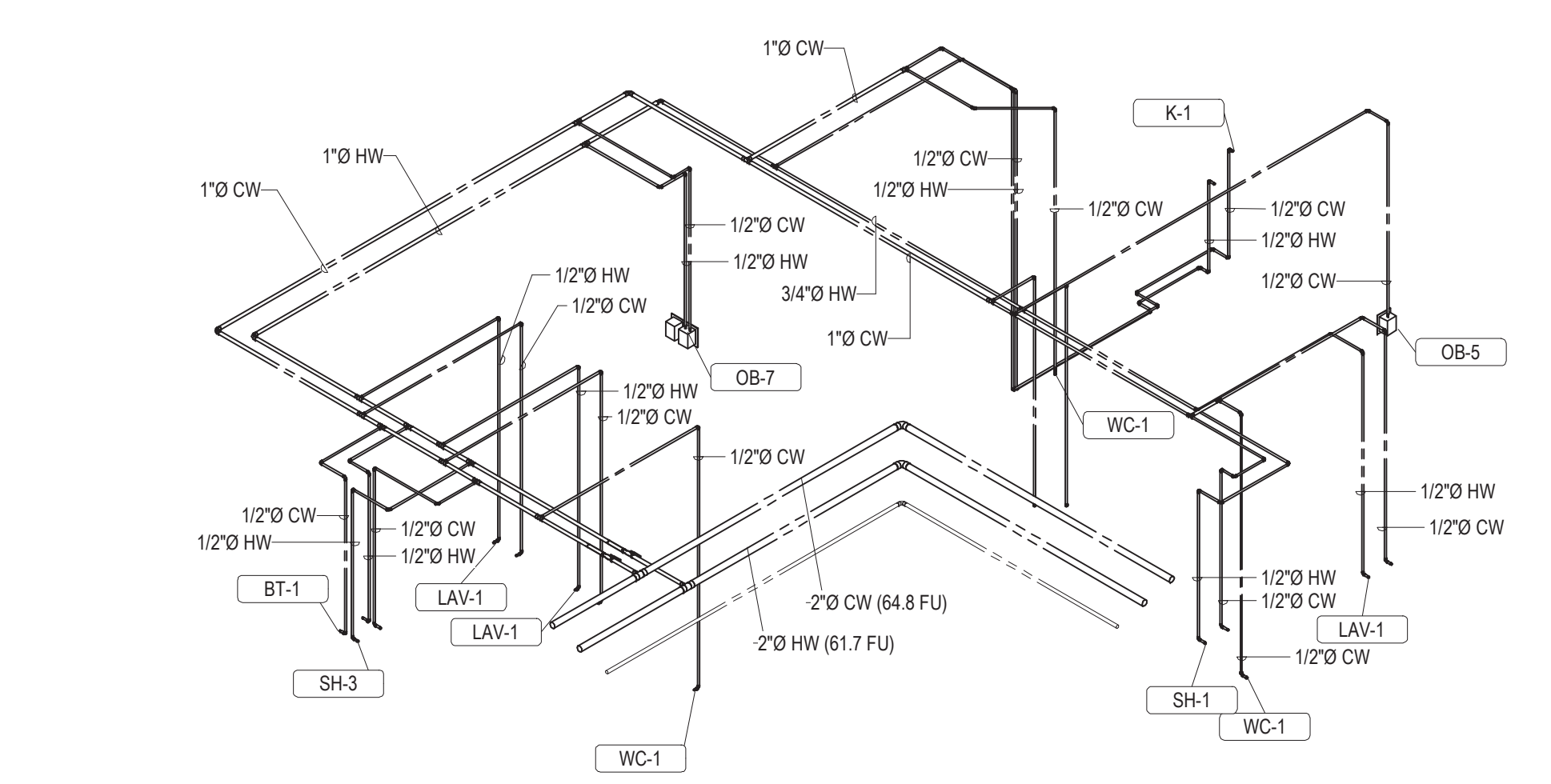
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**ENLARGED UNIT RISERS II - DOMESTIC WATER**

**P5.23**

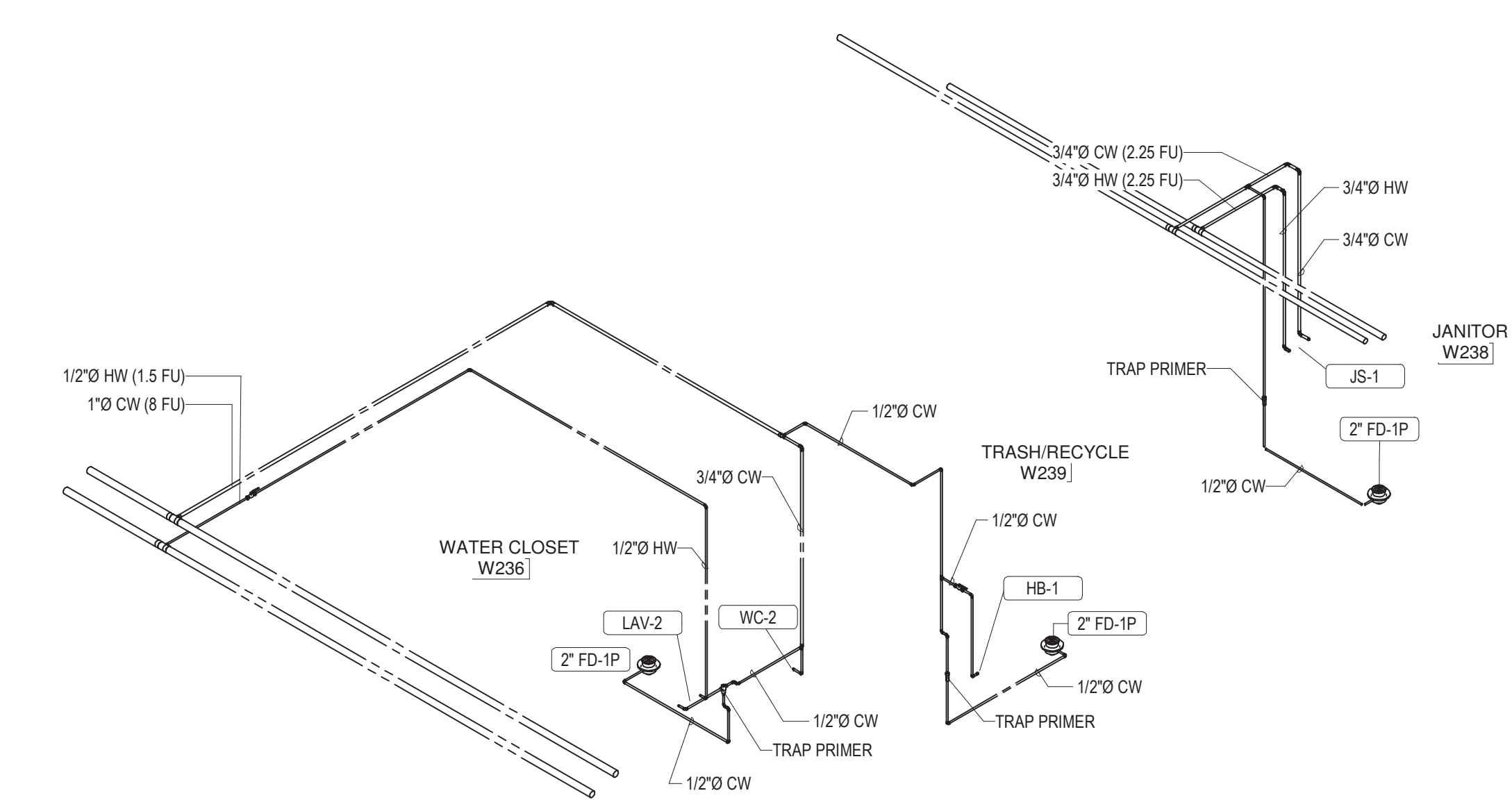
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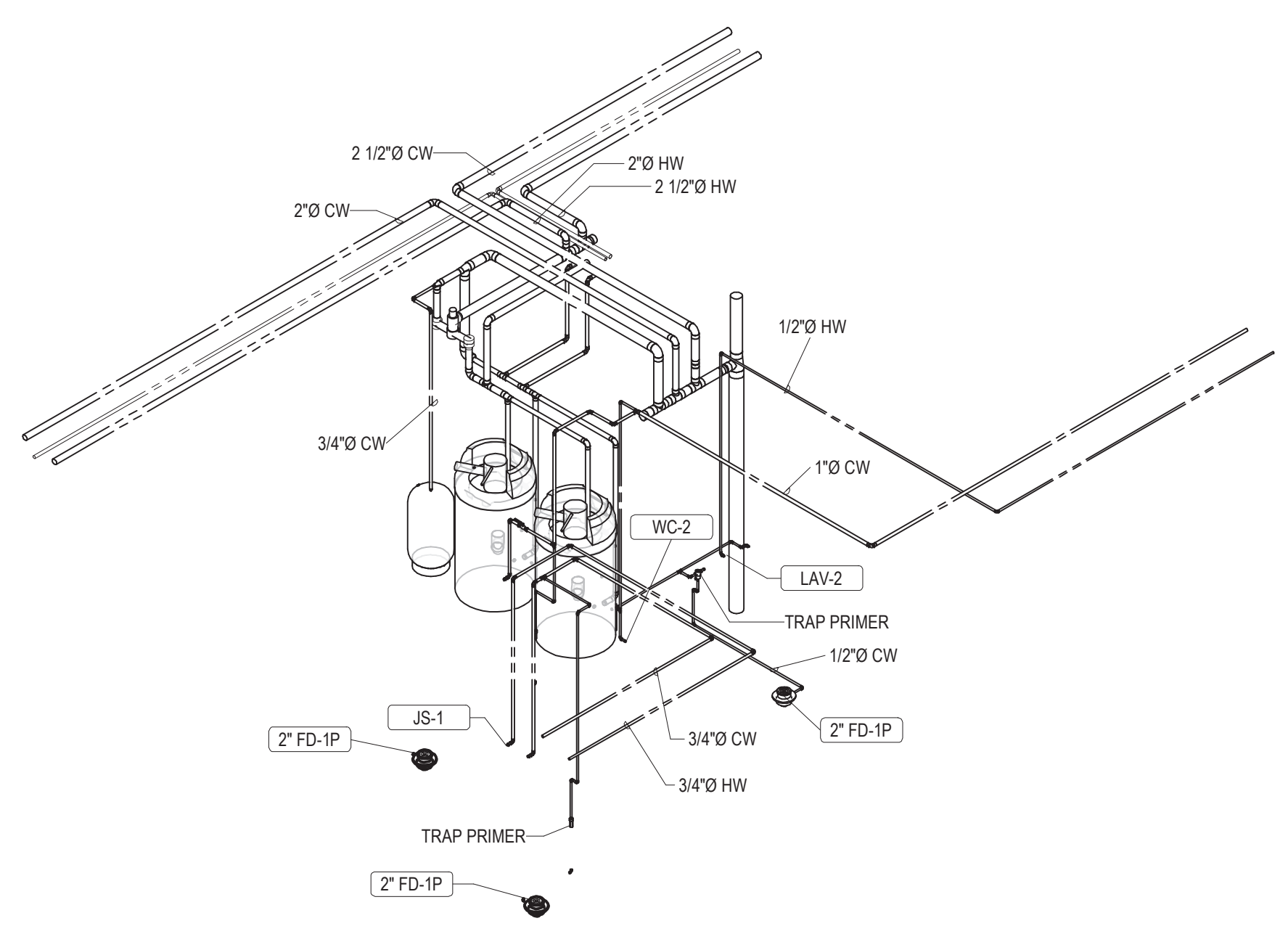
**2 ENLARGED UNIT K - DOMESTIC WATER**



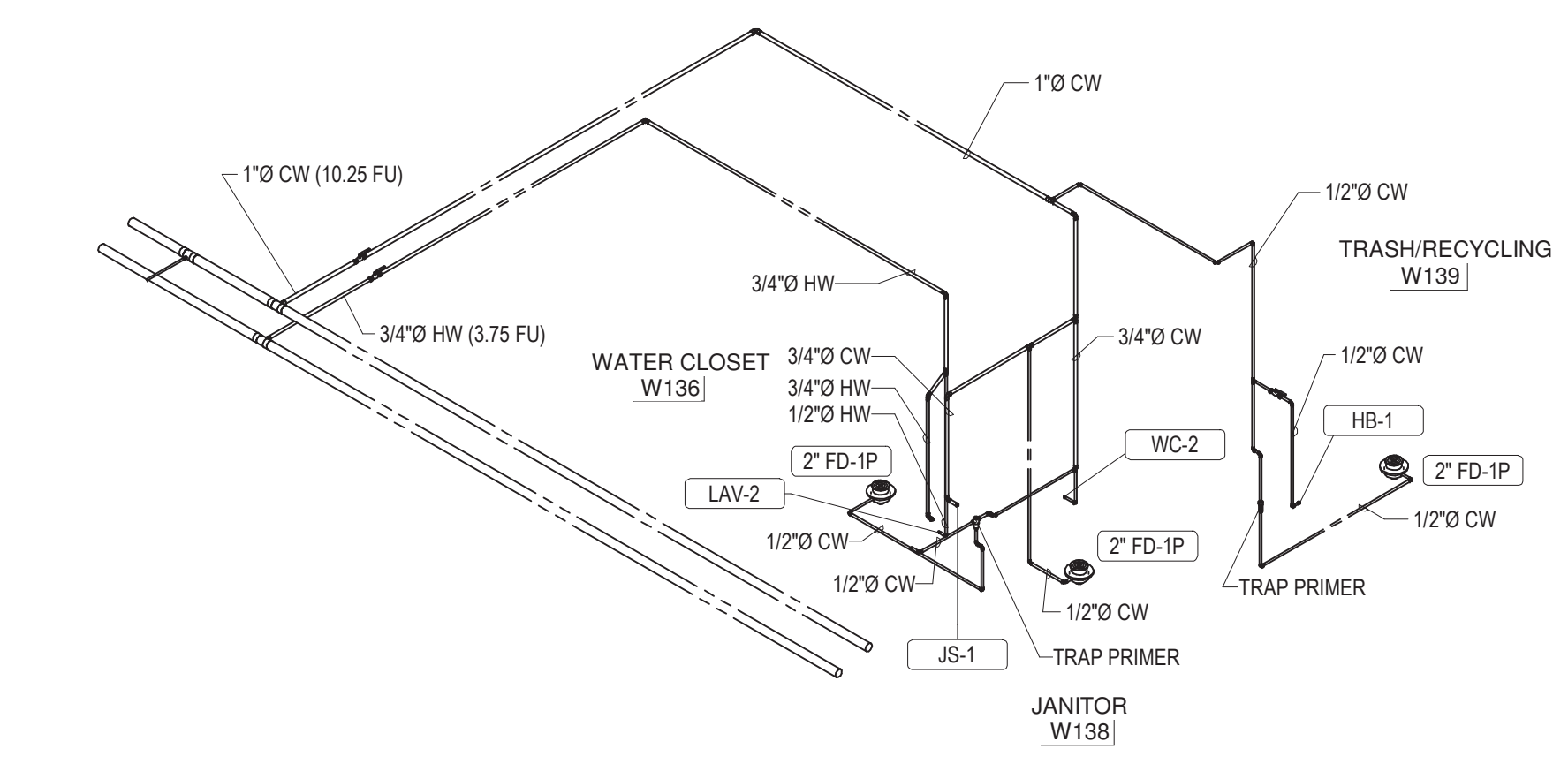
**1 ENLARGED UNIT J - DOMESTIC WATER**



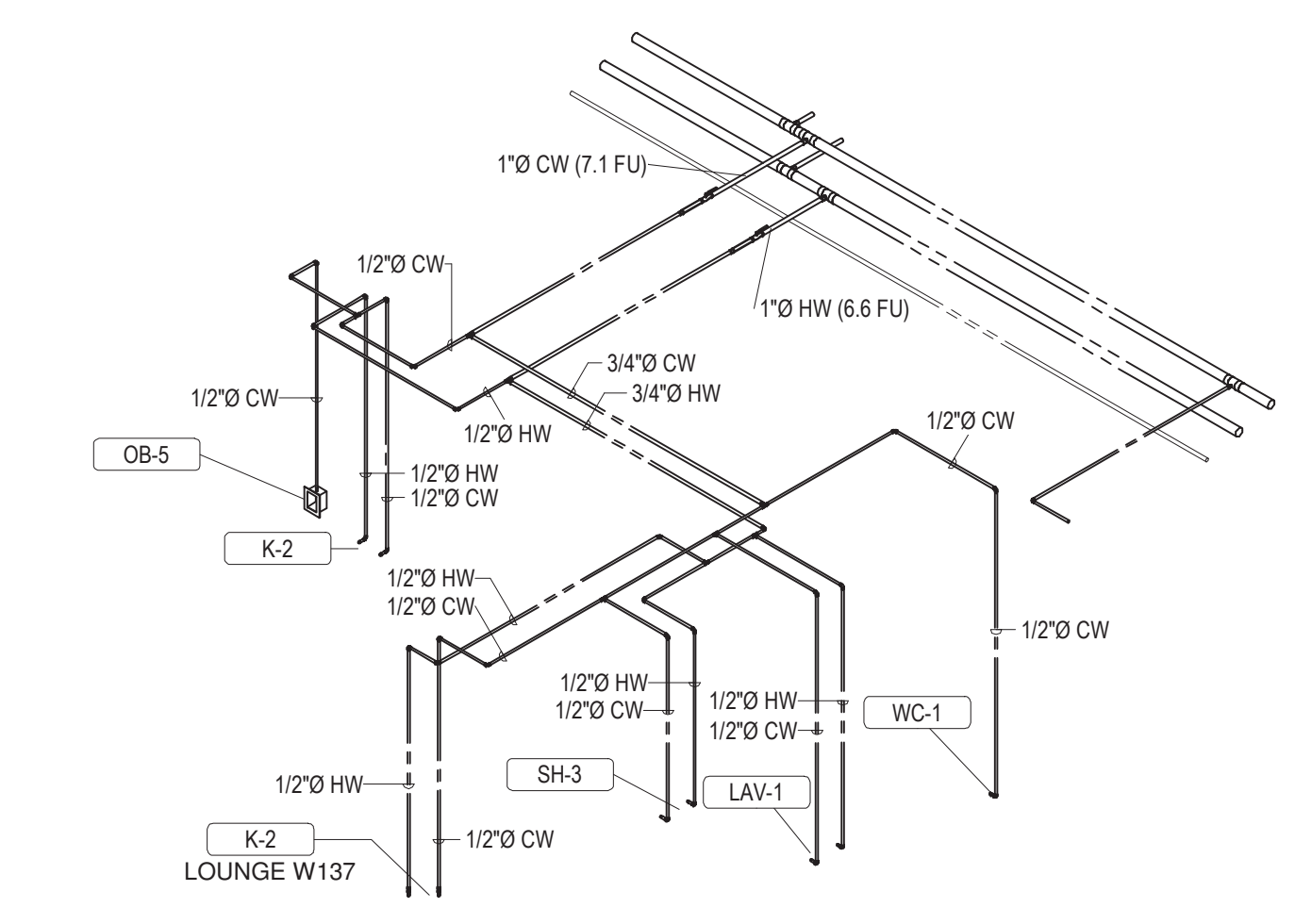
**5 ENLARGED BACK OF HOUSE WEST LEVEL 2-4 - DOMESTIC WATER**



**4 ENLARGED BACK OF HOUSE EAST LEVEL 1-4 - DOMESTIC WATER**

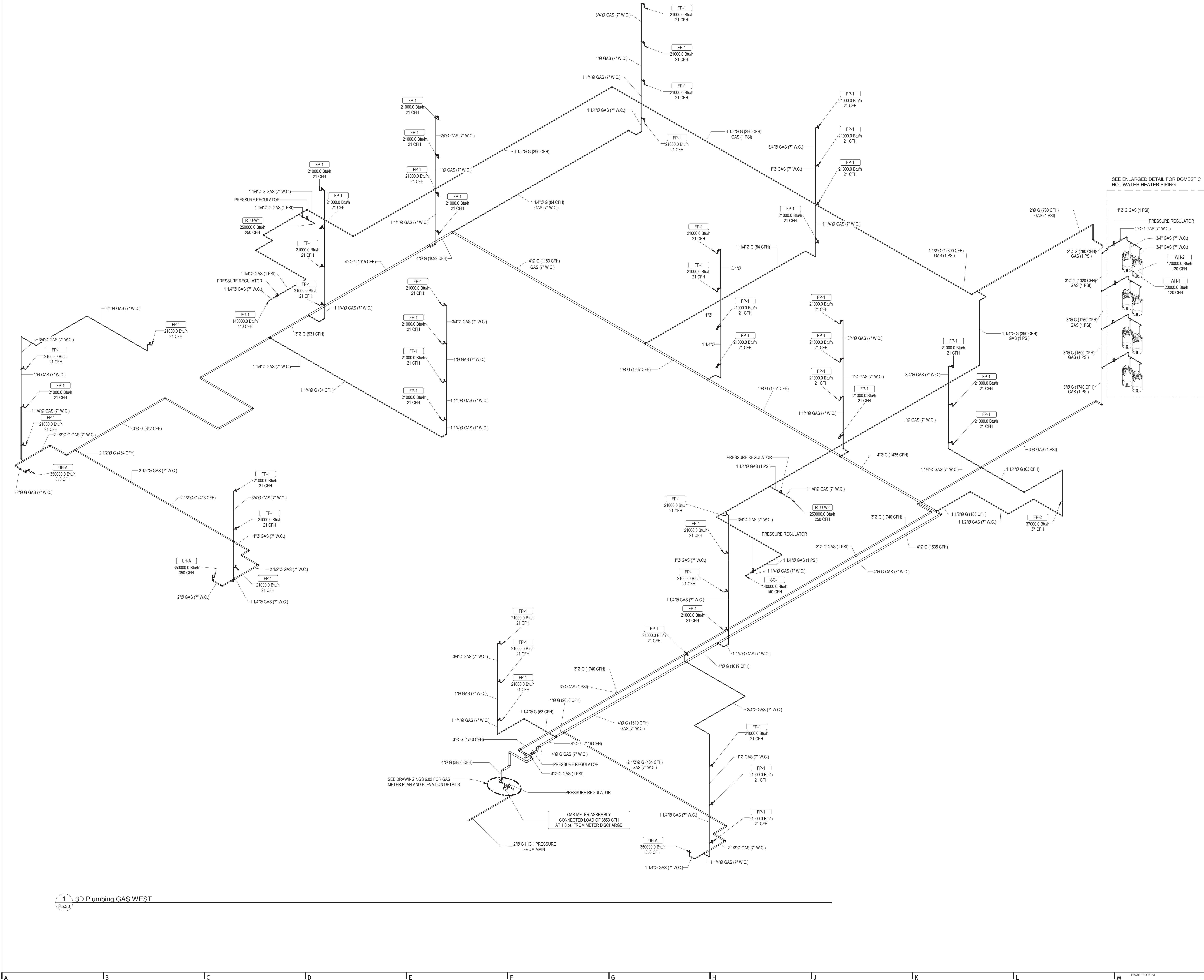


**6 ENLARGED BACK OF HOUSE WEST LEVEL 1 - DOMESTIC WATER**



**3 ENLARGED GUEST SUITE - DOMESTIC WATER**





1 3D Plumbing GAS WEST  
P5-30

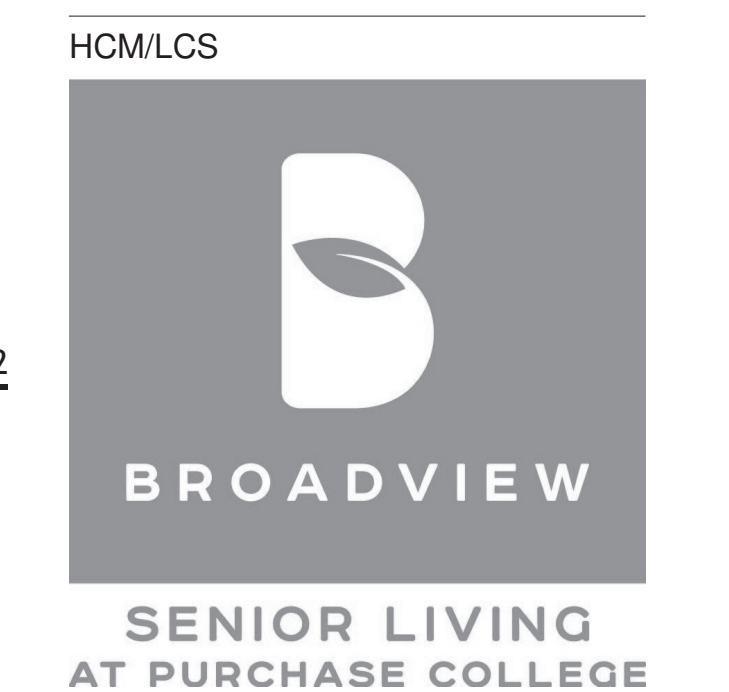
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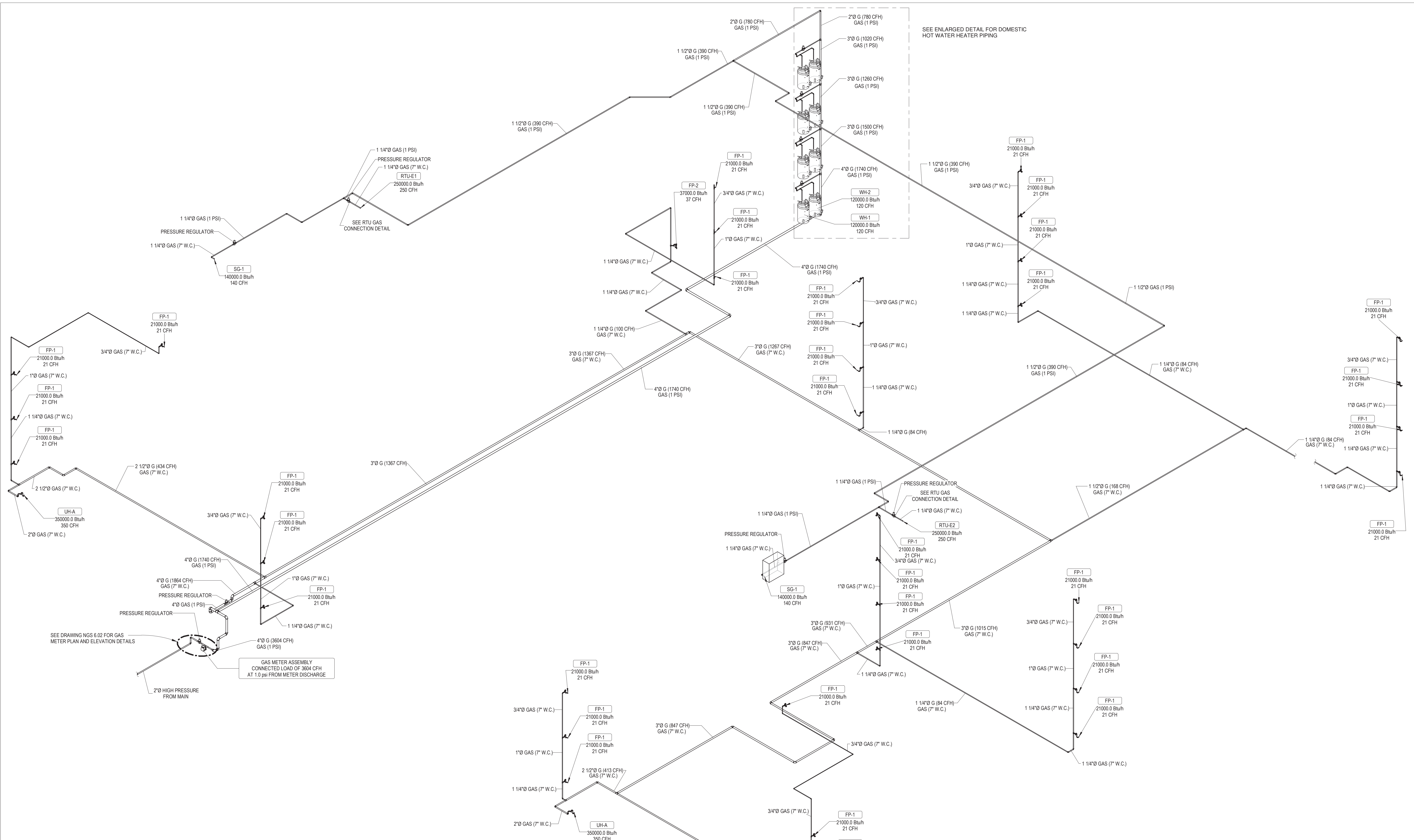
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Scale

Drawing  
GAS PIPING RISER DIAGRAM - WEST

P5.30

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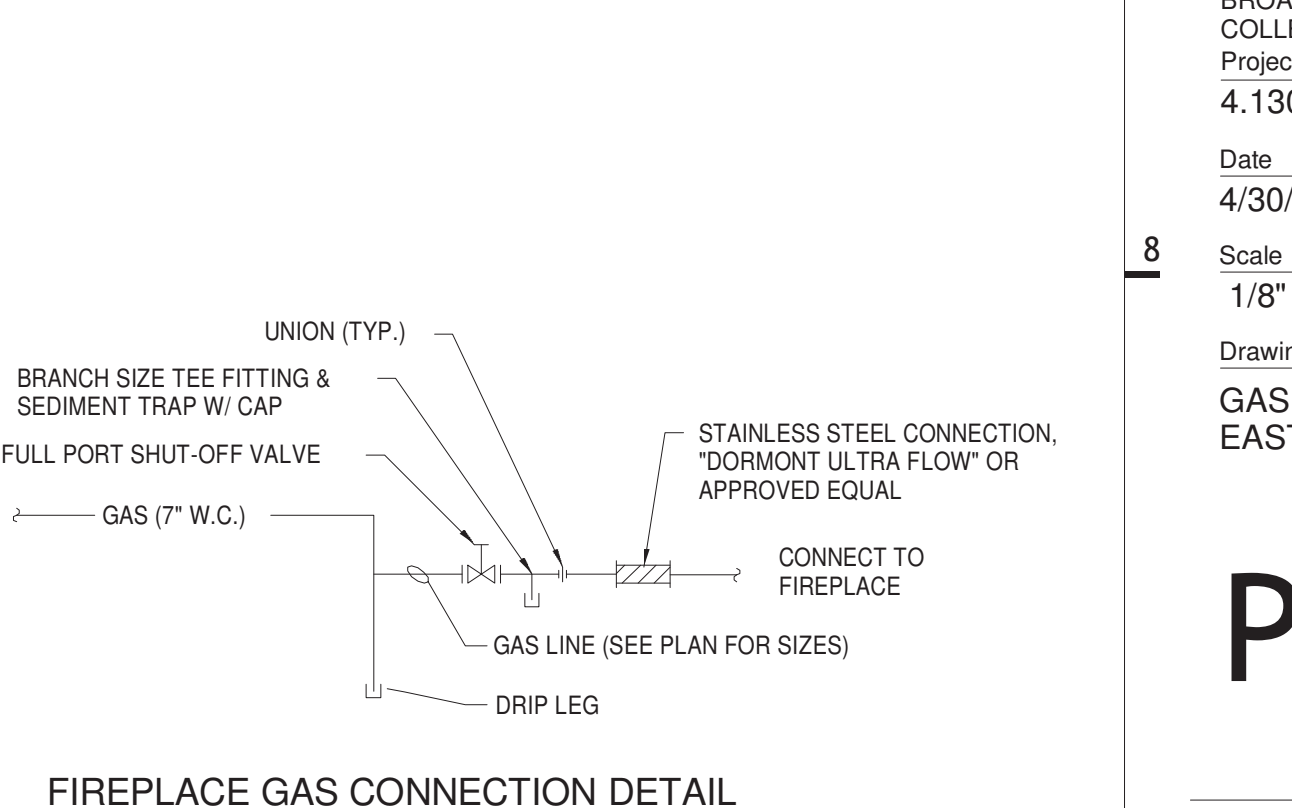
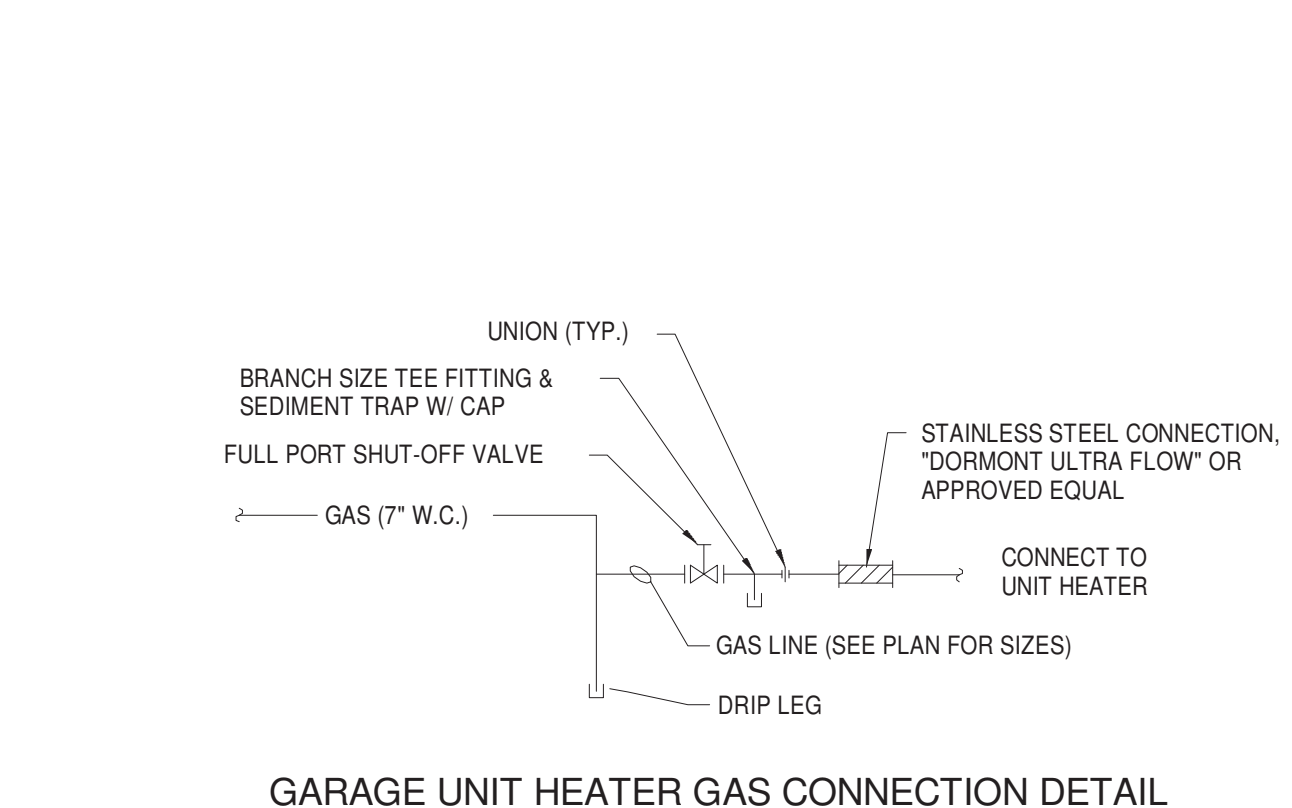
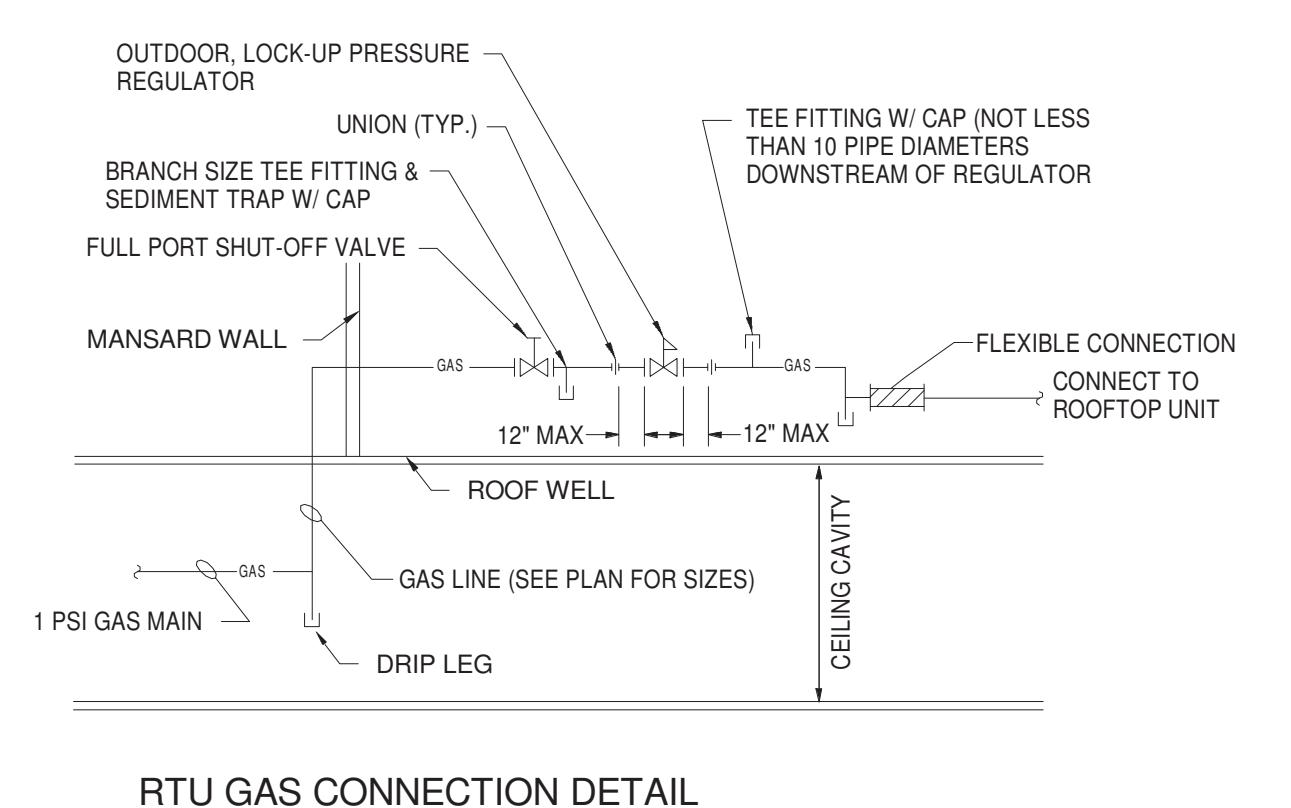
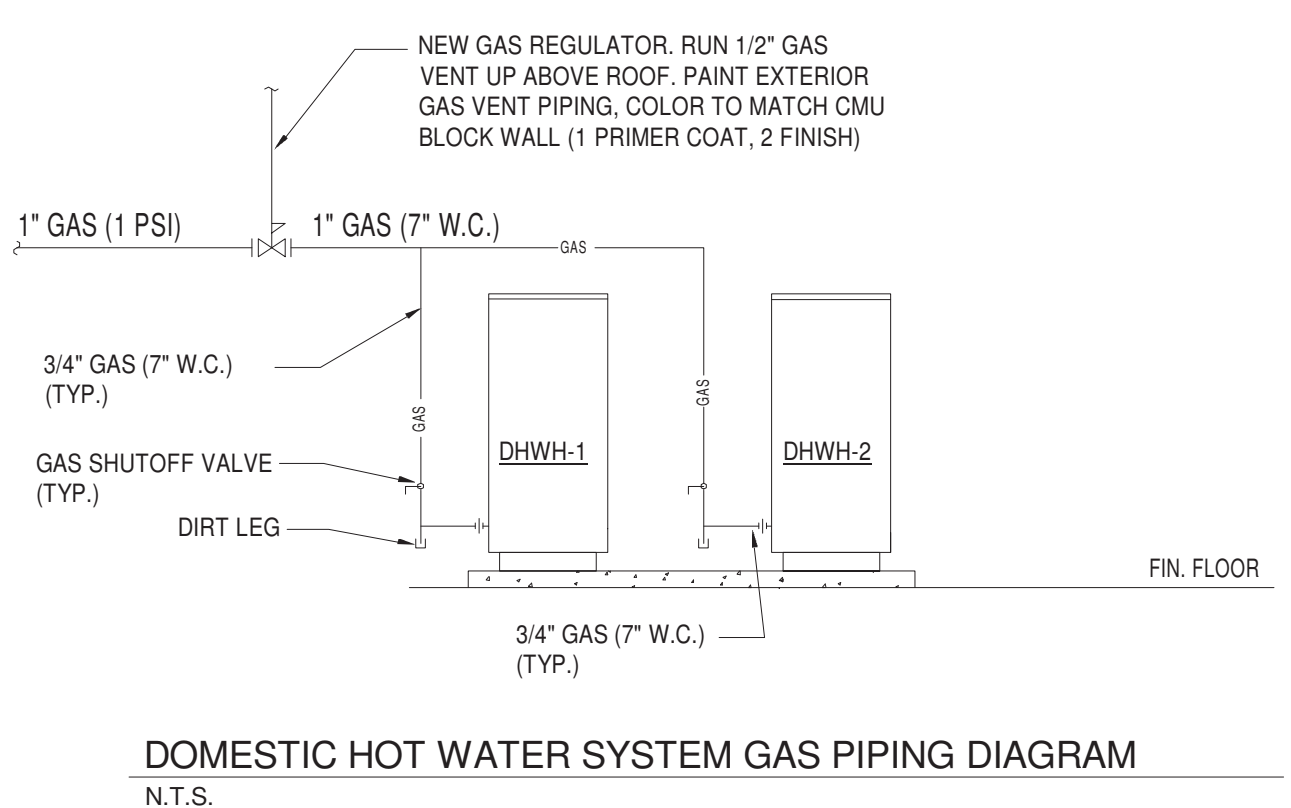




**1 3D Plumbing GAS EAST**  
PS 31

- GAS PIPING NOTES:**
- GAS PIPING ABOVE GRADE SHALL BE BLACK STEEL SCHEDULE #40 WITH MALLEABLE IRON THREADED FITTINGS FOR PIPE 1" DIAMETER AND SMALLER. 1 1/4" AND LARGER PIPE SHALL HAVE WELDED FITTINGS AND JOINTS. GAS PIPING BELOW GRADE SHALL BE POLYETHYLENE (PE) PIPE. REFER TO SPEC.
  - PIPING SHOULD BE RIGIDLY MOUNTED AND PROTECTED AGAINST VIBRATION.
  - INSTALL AN APPROVED LENGTH OF FLEXIBLE FUEL HOSE BETWEEN THE GENERATOR FUEL LINE CONNECTION POINT AND RIGID PIPING. THE FLEXIBLE CONNECTION SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 536 AND SHALL BE INSTALLED IN COMPLIANCE WITH ITS LABEL AND THE MANUFACTURER'S INSTALLATION INSTRUCTION.
  - INSTALL NORMALLY CLOSED NATURAL GAS SOLENOID VALVE (LISTED SAFETY SHUT OFF VALVE).
  - INSTALL BOTH MANUAL AND ELECTRIC (BATTERY-POWERED) SHUT OFF VALVE AHEAD OF THE FLEXIBLE FUEL HOSE. THE MANUAL VALVE SHALL BE THE INDICATING TYPE.
  - INSTALLED PIPING MUST BE PROPERLY PURGED AND LEAK TESTED, IN ACCORDANCE WITH APPLICABLE STANDARDS.
  - CONTRACTOR IS REQUIRED TO COORDINATE W/ LOCAL UTILITY COMPANY TO PROVIDE MIN. GAS PRESSURE OF 1/2 PSI. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS.
  - ALL GAS PRESSURE REGULATORS SHALL BE LOCKUP TYPE.
  - PROVIDE GAS SHUTOFF BALL VALVES FOR PIPE SIZES 2-1/2" & SMALLER. PROVIDE PLUG TYPE SHUTOFF VALVES FOR PIPE SIZES 3" & LARGER.
  - ALL INDOOR GAS PIPING SHALL BE PAINTED YELLOW (1 PRIMER & 2 FINISH COATS). ALL OUTDOOR GAS PIPING SHALL BE PAINTED GRAY (1 PRIMER & 2 FINISH COATS).
  - ALL INDOOR GAS VENTS SHALL BE PAINTED BLACK (1 PRIMER & 2 FINISH COATS). ALL OUTDOOR GAS VENTS SHALL BE PAINTED TO MATCH EXTERIOR FINISH (1 PRIMER & 2 FINISH COATS).

- NOTES:**
- CONTRACTOR TO PROVIDE 1/2" VENT FOR ALL INDOOR GAS PRESSURE REGULATORS. PIPE VENT RELIEF TO ATMOSPHERE. COORDINATE W/ LOCAL UTILITY COMPANY FOR GAS PRESSURE REGULATOR VENTING REQUIREMENTS.
  - ABOVE GROUND GAS PIPE SIZES BASED ON 2015 IFGC TABLE 402.4(1) SCHEDULE 40 BLACK METALLIC PIPE WITH A PRESSURE DROP OF 0.3" W.C.



SEE ENLARGED DETAIL FOR DOMESTIC HOT WATER HEATER PIPING

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GAS PIPING RISER DIAGRAM - EAST

**P5.31**



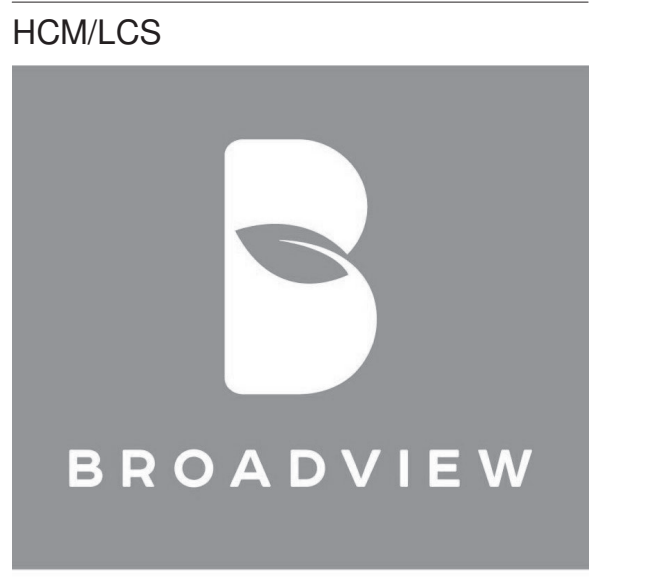
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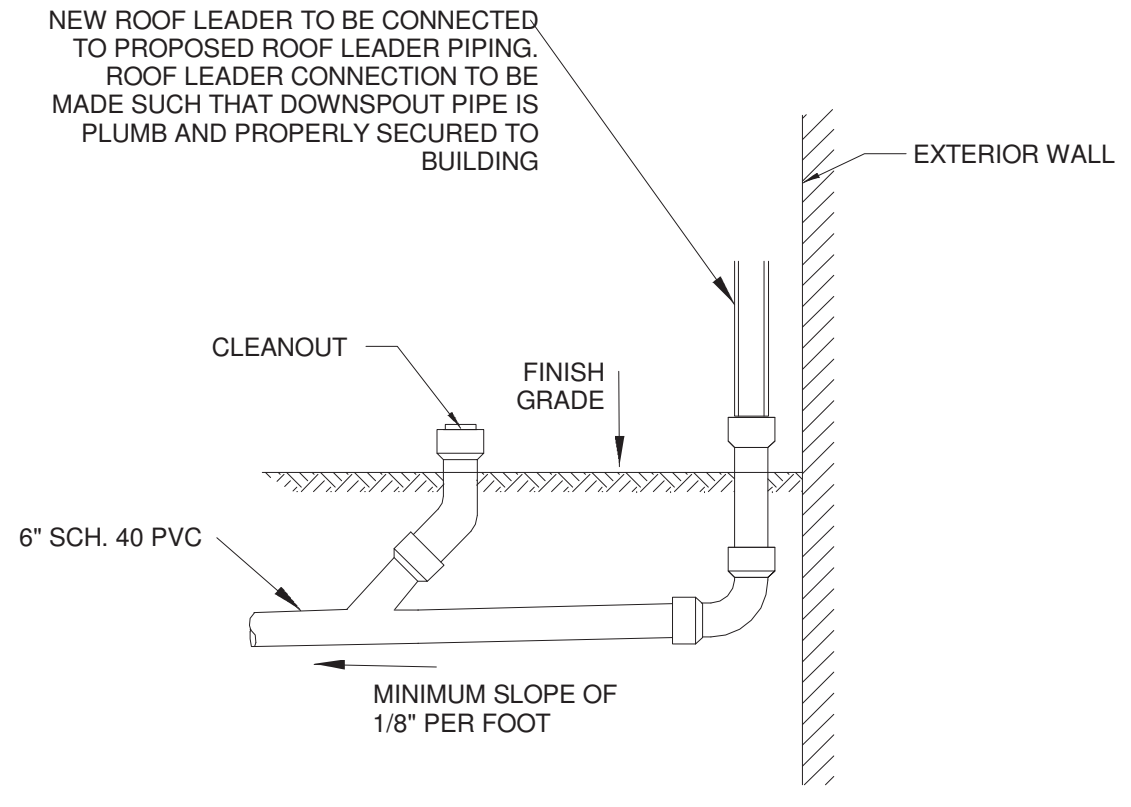
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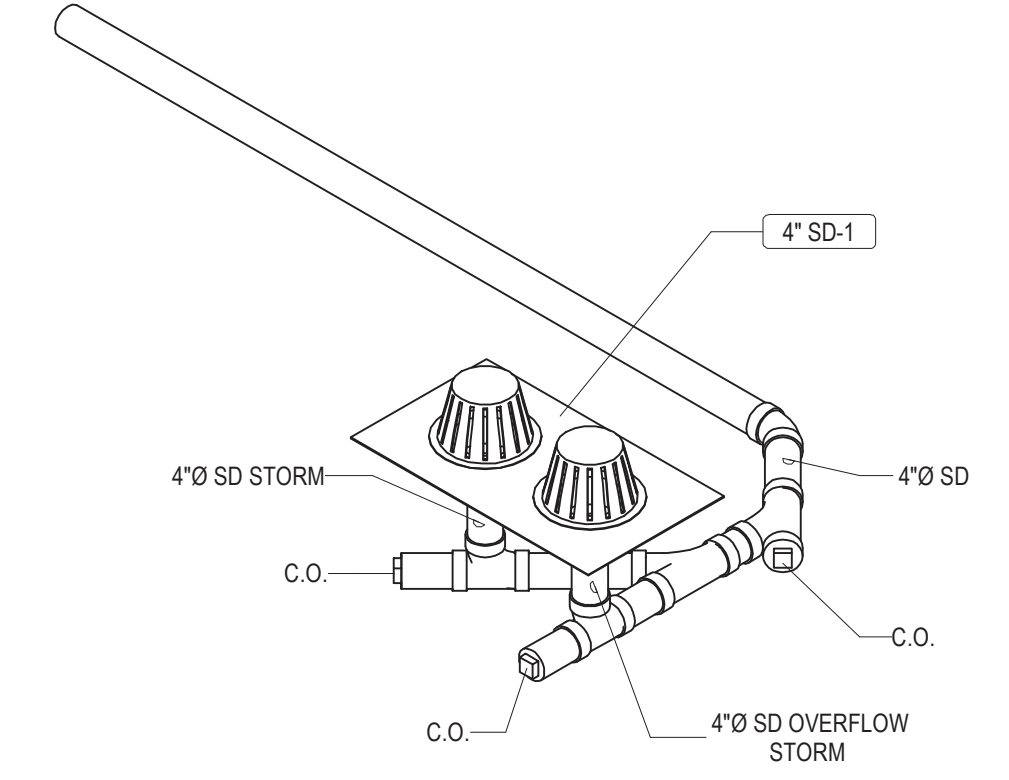
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**1/4" = 1'-0"**  
 Drawing  
**STORM PIPING RISER - WEST**

**P5.41**

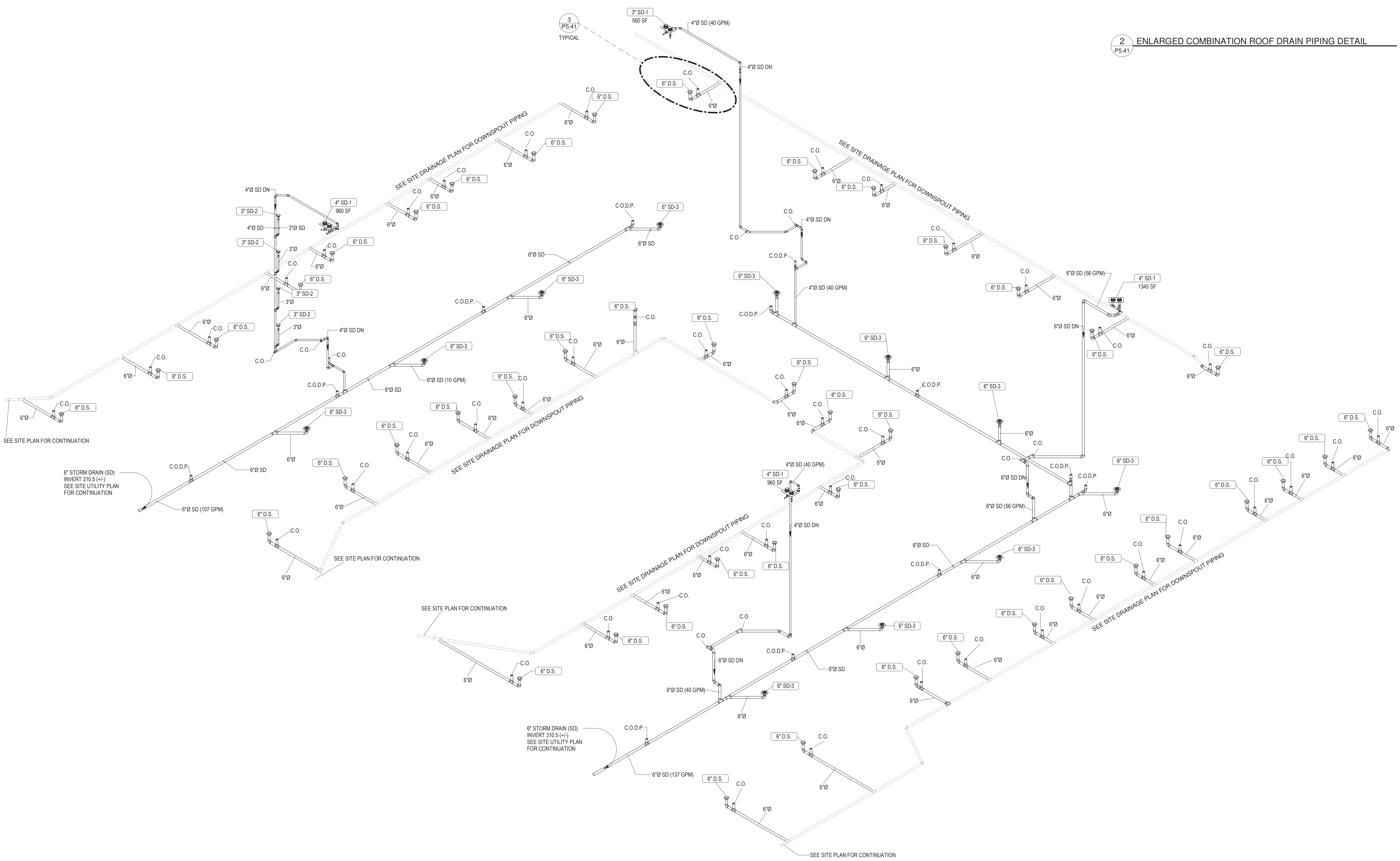
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**3 ROOF LEADER CONNECTION DETAIL AT GRADE**  
 P5.41 1/4" = 1'-0"



**2 ENLARGED COMBINATION ROOF DRAIN PIPING DETAIL**  
 P5.41



**1 STORM WATER PIPING RISER - WEST**  
 P5.41



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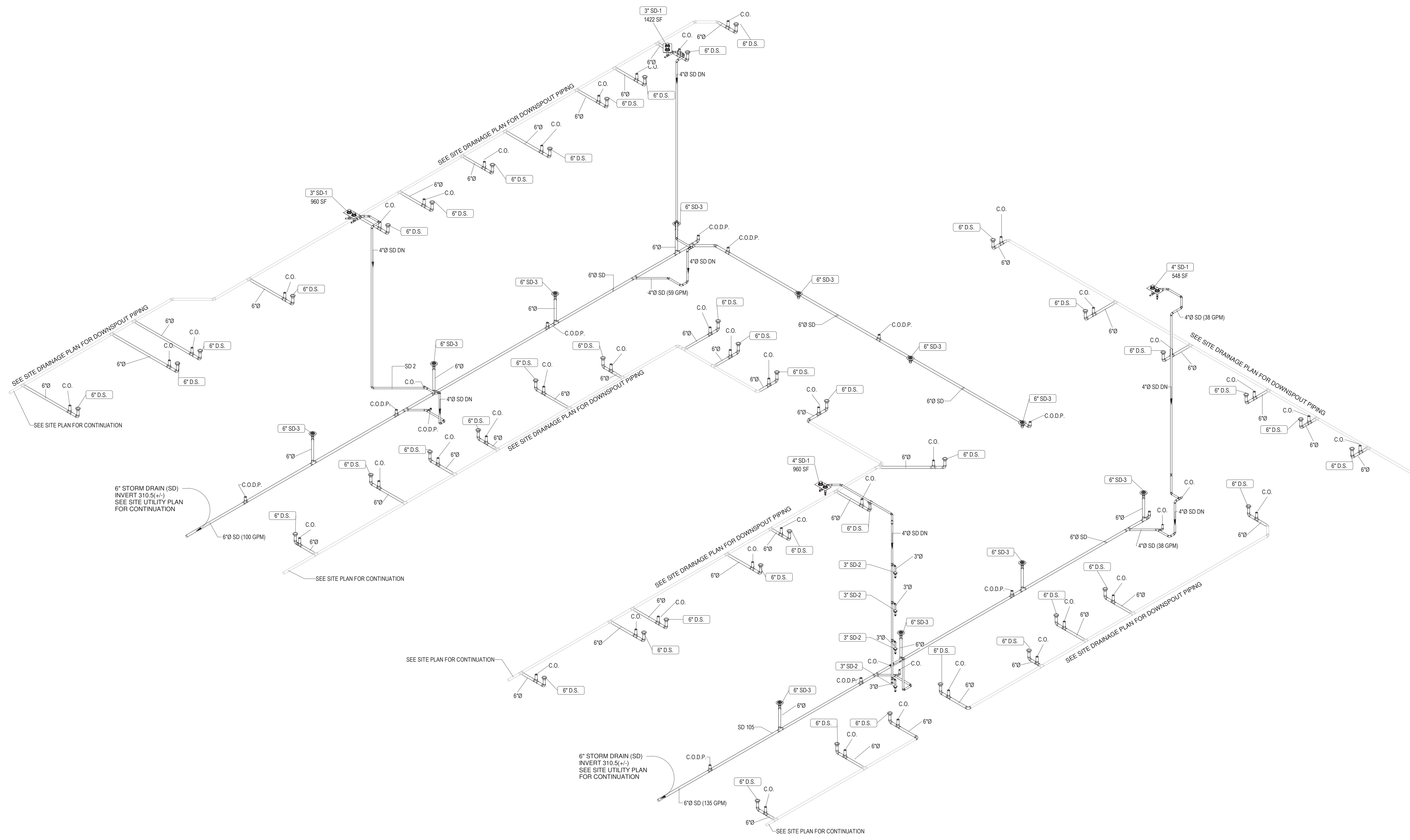
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STORM DRAIN CALCULATIONS									
ID	Identity Mark	DESCRIPTION	SIZE	DESCRIPTION	PROJECTED AREA	RAINFALL RATE (INCH/HR)	FLOW	INPUT	AREA (S.F.)
SD-1	RD-E1	COMBINATION DRAINS	3"	Primary Storm Out	960 SF	5.00	20 GPM	20 GPM	960
SD-1	RD-E2	COMBINATION DRAINS	3"	Primary Storm Out	1422 SF	5.00	30 GPM	30 GPM	1422
SD-1	RD-E3	COMBINATION DRAINS	4"	Primary Storm Out	548 SF	5.00	19 GPM	19 GPM	548
SD-1	RD-E4	COMBINATION DRAINS	4"	Primary Storm Out	960 SF	5.00	35 GPM	35 GPM	960
SD-1	RD-W1	COMBINATION DRAINS	4"	Primary Storm Out	960 SF	5.00	35 GPM	35 GPM	960
SD-1	RD-W2	COMBINATION DRAINS	3"	Primary Storm Out	560 SF	5.00	20 GPM	20 GPM	560
SD-1	RD-W3	COMBINATION DRAINS	4"	Primary Storm Out	1345 SF	5.00	28 GPM	28 GPM	1345
SD-1	RD-W4	COMBINATION DRAINS	4"	Primary Storm Out	960 SF	5.00	20 GPM	20 GPM	960
Grand Total:					8		206 GPM		



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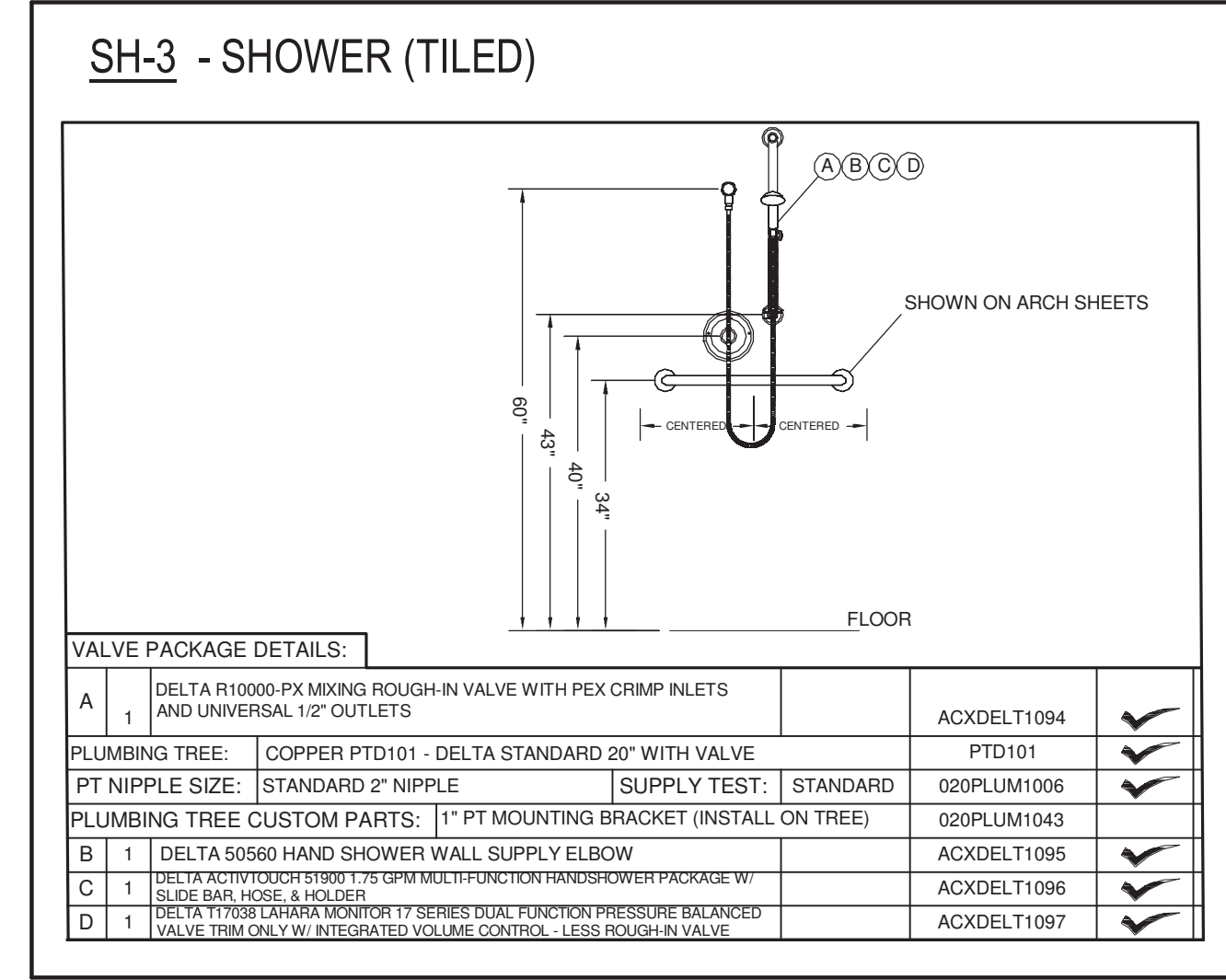
Drawing  
 STORM PIPING RISER - EAST

P5.42

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ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	TRIM			MOTION SENSOR CONTROL	FLUSH FIXTURE VOL. PER FLUSH	WASTE/INDIRECT WASTE PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	SPECIFICATION	REMARKS
					MANUFACTURER	MODEL	TYPE								
BT-1	BATH TUB	PRAXIS	RN6032	12	DELTA	R1000-PX	MANUAL	No	1-1/2"	1-1/2"	1-1/2"	1-1/2"	THE INDIVIDUAL DROP IN BATHTUB IS SPECIFIED IN ANOTHER DIVISION. PROVIDE DELTA RP3237 TUB SPOUT, PROVIDE A TUB DRAIN AS SPECIFIED IN 'SOIL, WASTE, AND VENT PIPING SYSTEMS'. SHOWER SYSTEM WITH ASSE 1016 COMPLIANT TYPE 'TIP' THERMOSTATIC/PRESSURE BALANCING COMBINATION MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. PROVIDE MANUFACTURER'S FLOW RATE RESTRICTOR ON SHOWERHEAD.		
EWC-2	WATER COOLER - DUAL HEIGHT	ELKAY	EZSLBWSSK	2				No	2"	1-1/2"	1-1/2"		TWO LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE.		
HB-1	HOSE BIBB	WOODFORD	B24-1/2	20				MANUAL	No			3/4"	INTERIOR HOSE BIBB WITH ANTI-SIPHON VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, LOCK SHIELD CAP, AND REMOVABLE 'TEE' HANDLE. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB.		
HB-2	HOSE BIBB-EXT	WOODFORD	MODEL 67	16				MANUAL	No			3/4"	Freezeless Wall Hydrant, 3/4" HOSE THREAD OUTLET, AND REMOVABLE 'KEY' HANDLE. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB.		
HB-3	HOSE BIBB - ROOF	WOODFORD	RH12-MS	8				MANUAL	No			3/4"	FREEZELESS ROOF HYDRANT WITH VACUUM BREAKER, DUAL CHECK BACKFLOW PREVENTER, 3/4" HOSE THREAD OUTLET, PROVIDE CAST IRON MOUNTING SUPPORT SYSTEM RH-MS. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB.		
JS-1	JANITOR SINK	MUSTEE	63M	8	MUSTEE	63 600A	MANUAL	No	3"	2"	3/4"	3/4"	SERVICE BASIN, 24"X24"X18" WITH CHROME PLATED 3" DRAIN AND CAST IRON TRAP. FAUCET SHALL INCLUDE PAUL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT, FURNISH 60/100 SERVICE HOSE AND FITTINGS, SERVICE HOP HANGER.		
K-1	KITCHEN WDW	KOHLER	K3177	174	DELTA	9178-DST	MANUAL	No	1-1/2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT UNDERMOUNT SINK, SWIVEL FAUCET, BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. PROVIDE TRAP AND CONNECTION TO DISHWASHER.		
K-2	KITCHENETTE	KOHLER	K-5287	10	KOHLER	K-7509CP	MANUAL	No	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT UNDERMOUNT SINK, SINGLE HOLE IN CASEWORK FOR FAUCET, BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. PROVIDE P-TRAP.		
LAV-1	RESIDENTIAL LAVATORY - ADA	KOHLER	VERTICYL K2882-0	524	DELTA	#564-MPU-DST	MANUAL	No	2"	1-1/2"	1/2"	1/2"	UNDERMOUNT BATHROOM SINK, FAUCET HOLES ON 4" CENTERS IN CASEWORK. DECK-MOUNTED FAUCET, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, P-TRAP.		
LAV-2	LAVATORY - ADA	KOHLER	VERTICYL K2882-0	8	AMERICAN STANDARD	6059.202	ELECTRONIC	Yes	2"	1-1/2"	1/2"	1/2"	UNDERMOUNT BATHROOM SINK, FAUCET HOLES ON 4" CENTERS IN CASEWORK. DECK-MOUNTED FAUCET, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, P-TRAP.		
OB-5	ICE MAKER OUTLET BOX	SIOUX CHIEF	696-RG101MF	178				No	2"	2"	1-1/2"	1-1/2"	FULLY RECESSED FIRE RATED ICE MAKER SUPPLY BOX WITH COVER. PROVIDE 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS IN BOX.		
OB-7	WASHING MACHINE OUTLET BOX	SIOUX CHIEF	696-R2313MF	174				No	2"	2"	1-1/2"	1-1/2"	FULLY RECESSED FIRE RATED WASHING MACHINE SUPPLY BOX WITH COVER. PROVIDE 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS IN BOX. PROVIDE A 2" TRAPPED STANDPIPE IN CONCEALED WALL SPACE.		
SH-1	SHOWER STALL	BESTBATH	LB3SS6032CP	102	DELTA	SEE DETAIL	MANUAL	No	2"	1-1/2"	1/2"	1/2"	THE INDIVIDUAL SHOWER STALL AND ACCESSORIES IS SHOWN IN DETAIL BELOW SPECIFIED IN ANOTHER DIVISION. PROVIDE DELTA HAND SHOWER AND INTEGRATED DIVERTER. PROVIDE A SHOWER DRAIN AS SPECIFIED IN 'SOIL, WASTE, AND VENT PIPING SYSTEMS'. SHOWER SYSTEM WITH ASSE 10.		
SH-2	SHOWER STALL	BESTBATH	LCS26540W75B	162	DELTA	SEE DETAIL	MANUAL	No	2"	1-1/2"	1/2"	1/2"	THE INDIVIDUAL SHOWER STALL AND ACCESSORIES IS SHOWN IN DETAIL BELOW SPECIFIED IN ANOTHER DIVISION. PROVIDE DELTA HAND SHOWER AND INTEGRATED DIVERTER. PROVIDE A SHOWER DRAIN AS SPECIFIED IN 'SOIL, WASTE, AND VENT PIPING SYSTEMS'. SHOWER S		
SH-3	SHOWER	TILE IN PLACE		16	DELTA	SEE DETAIL	MANUAL	No	1-1/2"	1-1/2"	1/2"	1/2"	THE INDIVIDUAL TILED SHOWER AND ACCESSORIES IS SPECIFIED IN ANOTHER DIVISION. PROVIDE A SHOWER DRAIN AS SPECIFIED IN 'SOIL, WASTE, AND VENT PIPING SYSTEMS'. SHOWER SYSTEM WITH ASSE 1016 COMPLIANT TYPE 'TIP' THERMOSTATIC/PRESSURE BALANCING COMBINATION MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. PROVIDE MANUFACTURER'S FLOW RATE RESTRICTOR ON SHOWERHEAD.		
WC-1	RESIDENTIAL WATER CLOSET - FLR MT-TANK-ADA	TOTO	DRAKE II CST454CFEGRD1	386				No	1.28 gal	3"	2"	1-1/2"	The Two-piece low consumption Tornado Flush system toilet shall be 1.28GPF@4.8LPI. Toilet shall have optional CeFiONect ceramic glaze and be at Universal Height. Toilet shall have high-profile tank, elongated front bowl and Chrome trim lever. SC52401 SOFT CLOSE SEAT.		
WC-2	WATER CLOSET - FLR MNT-TANK-ADA	TOTO	DRAKE II CST454CFEGRD1	8				No	1.28 gal	3"	2"	1-1/2"	The Two-piece low consumption Tornado Flush system toilet shall be 1.28GPF@4.8LPI. Toilet shall have optional CeFiONect ceramic glaze and be at Universal Height. Toilet shall have high-profile tank, elongated front bowl and Chrome trim lever. SC531-01 OPEN FRONT COMMERCIAL SEAT.		
Grand total: 1808															



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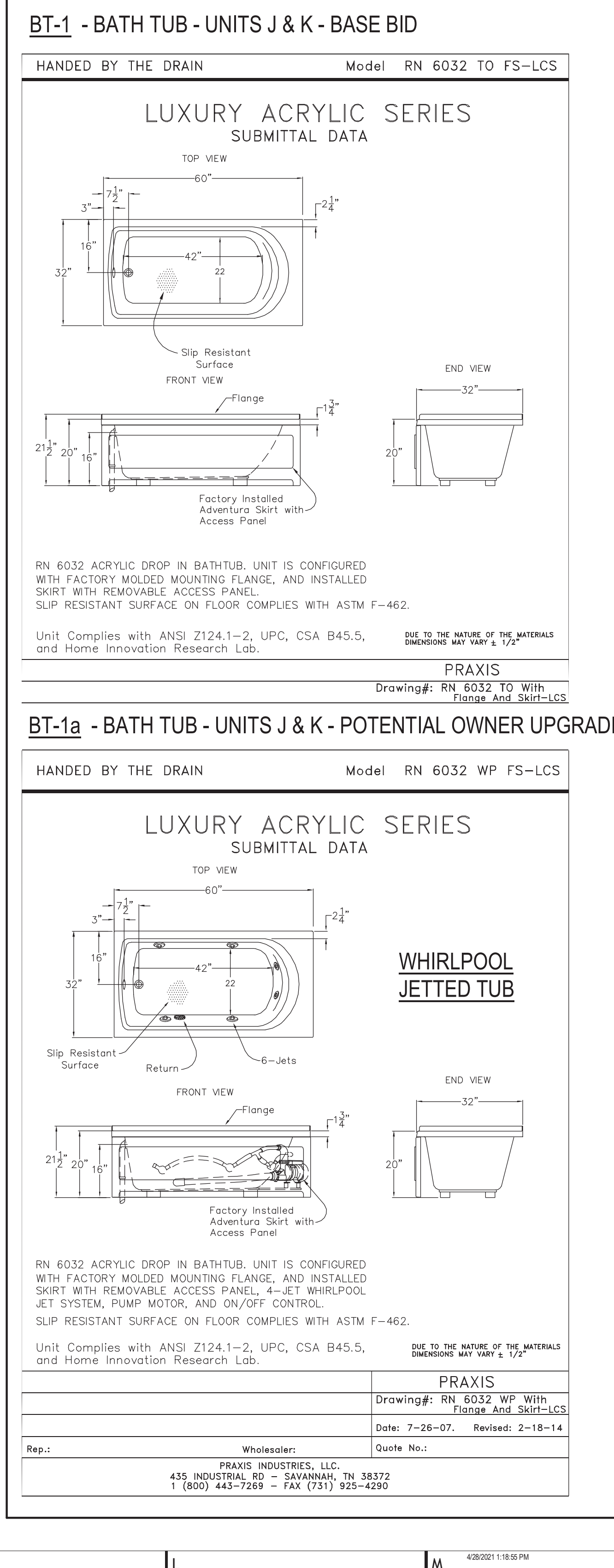
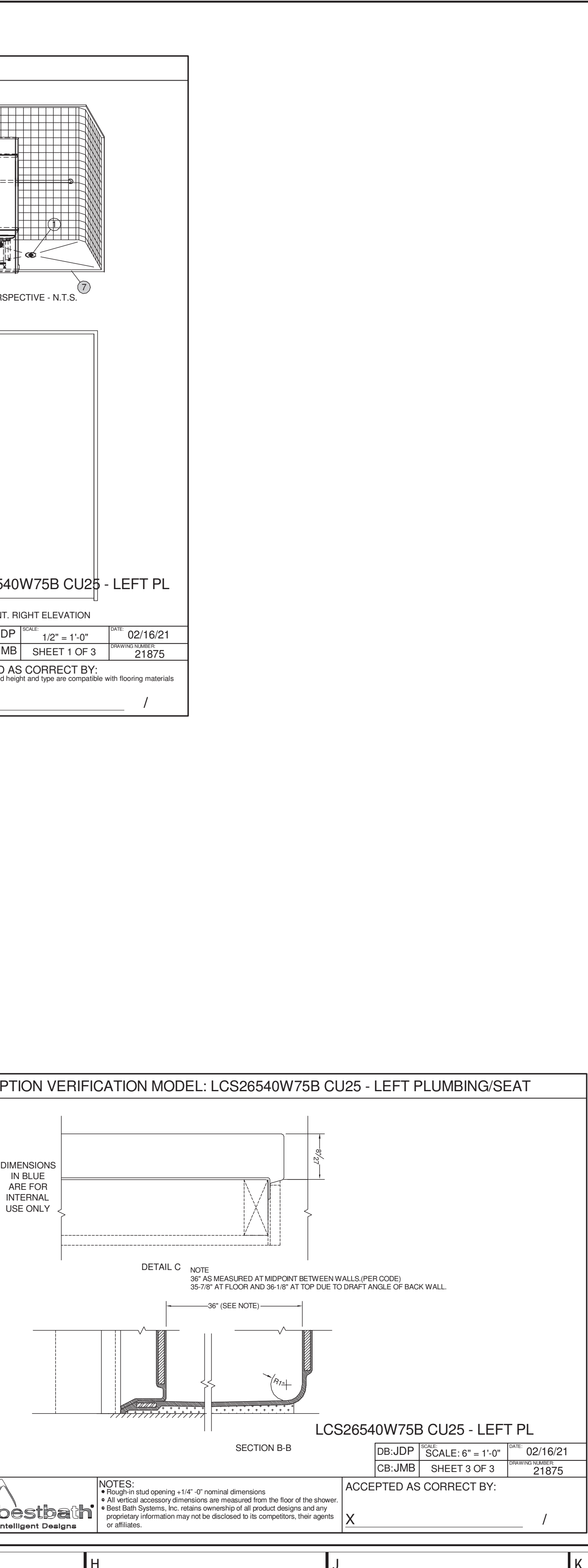
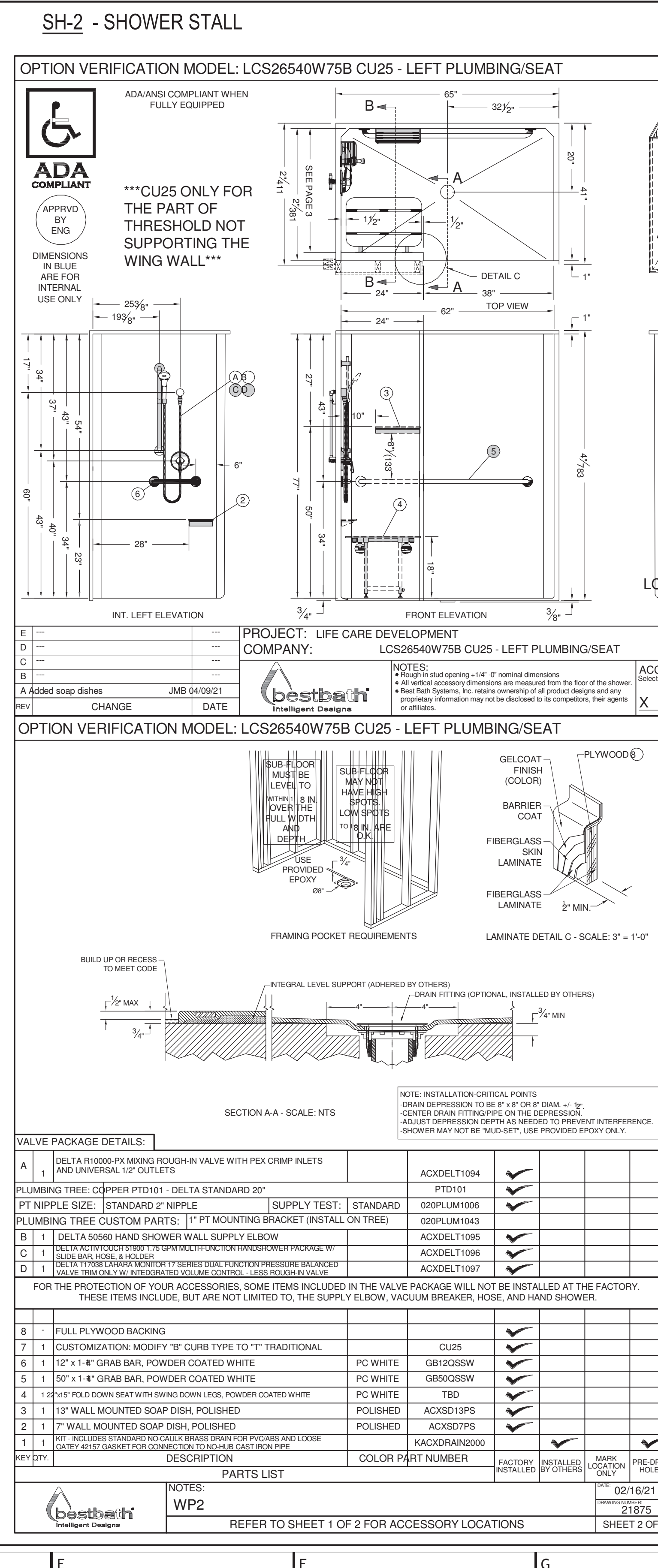
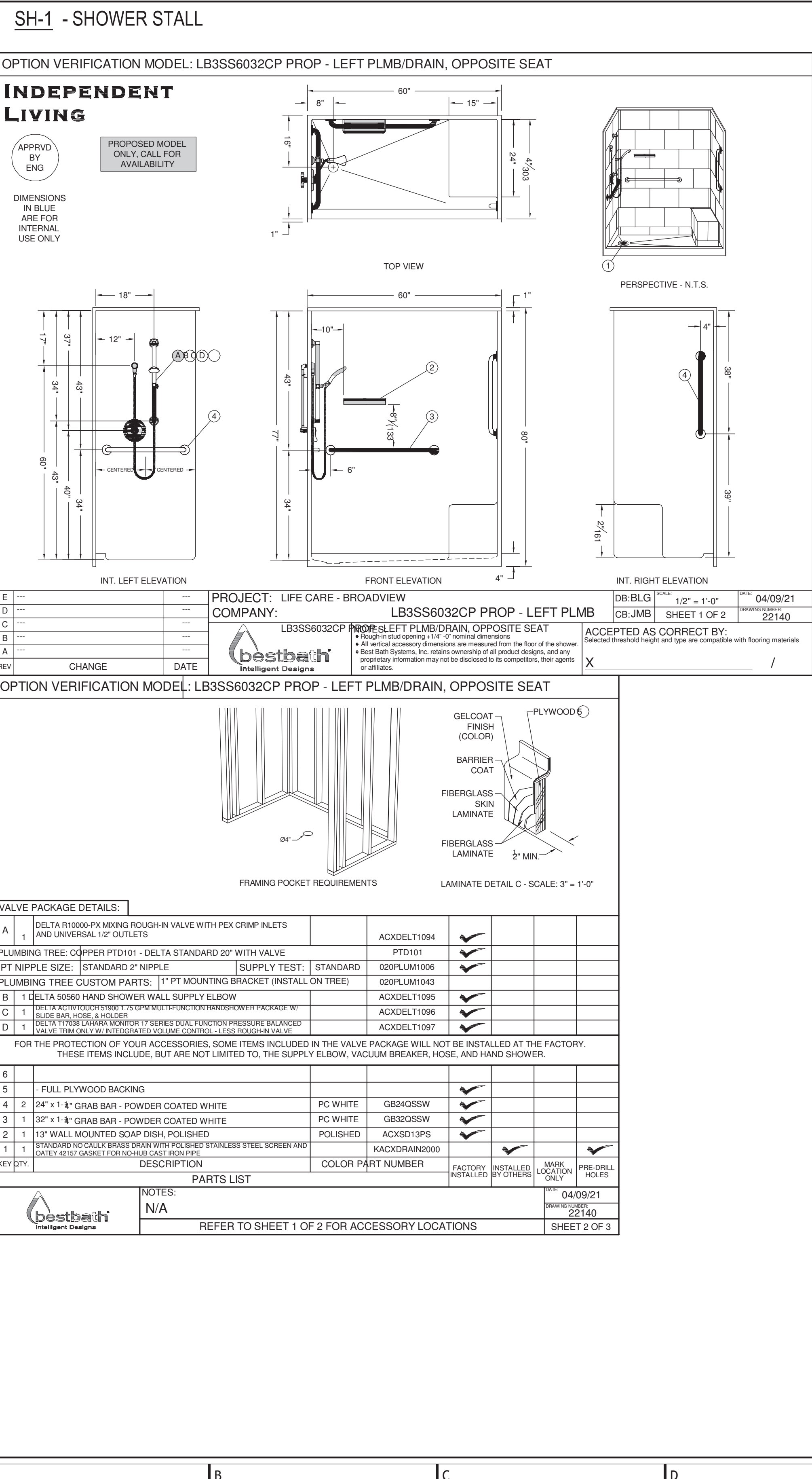
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**HCM/LCS**

**BROADVIEW**

**SENIOR LIVING AT PURCHASE COLLEGE**



**BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS**

**hord coplan macht**

ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 INTERIOR DESIGN

**STATE OF NEW YORK**  
 THOMAS WIGMORE  
 LICENSED PROFESSIONAL ENGINEER  
 090385

Project Name  
**BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS**  
 Project Number  
**4.1308.01**  
 Date  
**4/30/2021**  
 Scale  
**1/8" = 1'-0"**  
 Drawing  
**PLUMBING SCHEDULE AND DETAILS**

no. date revision

Project Name  
**BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS**  
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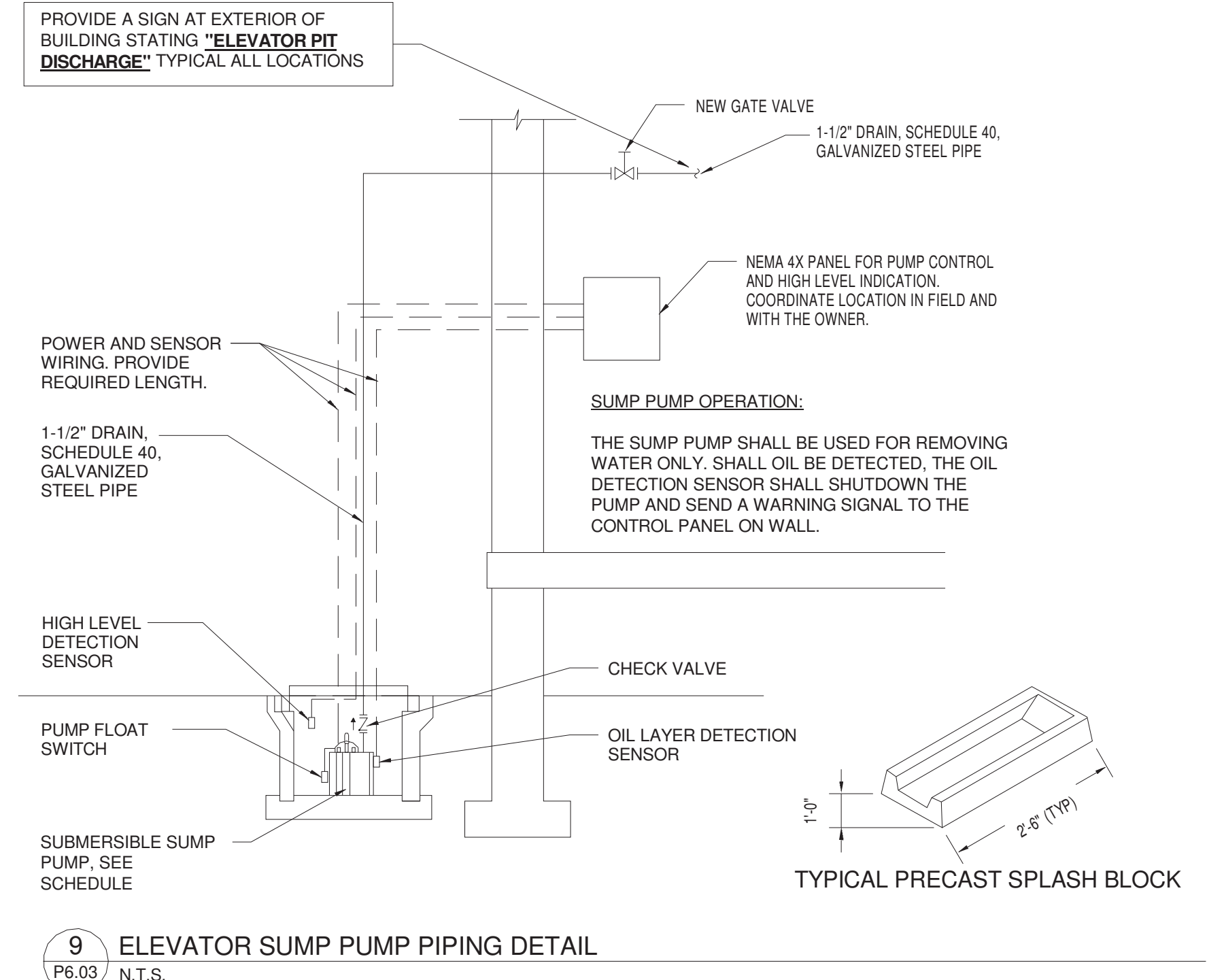
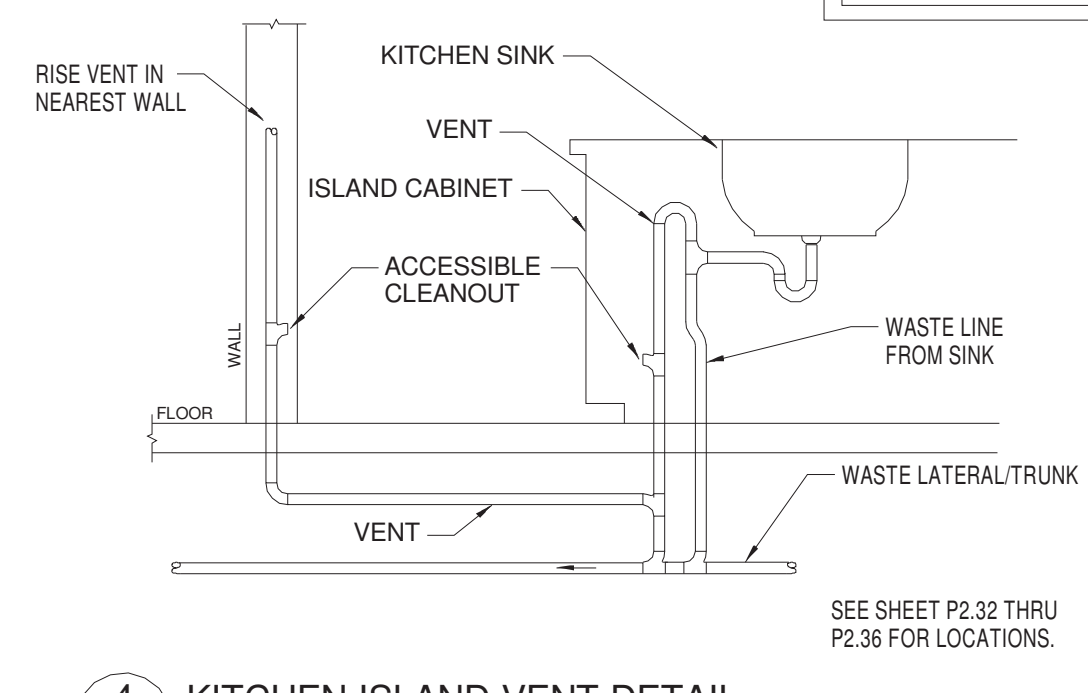
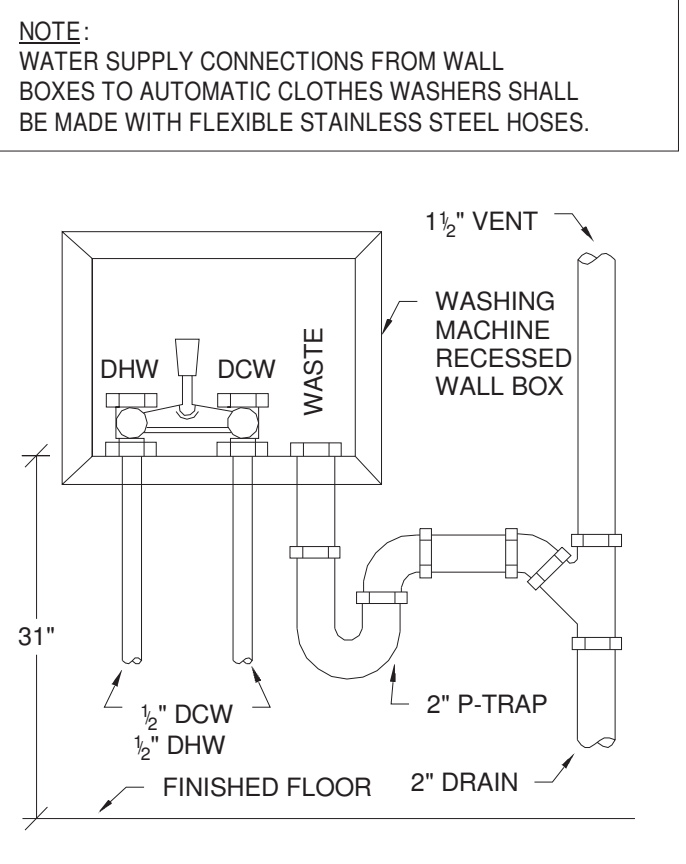
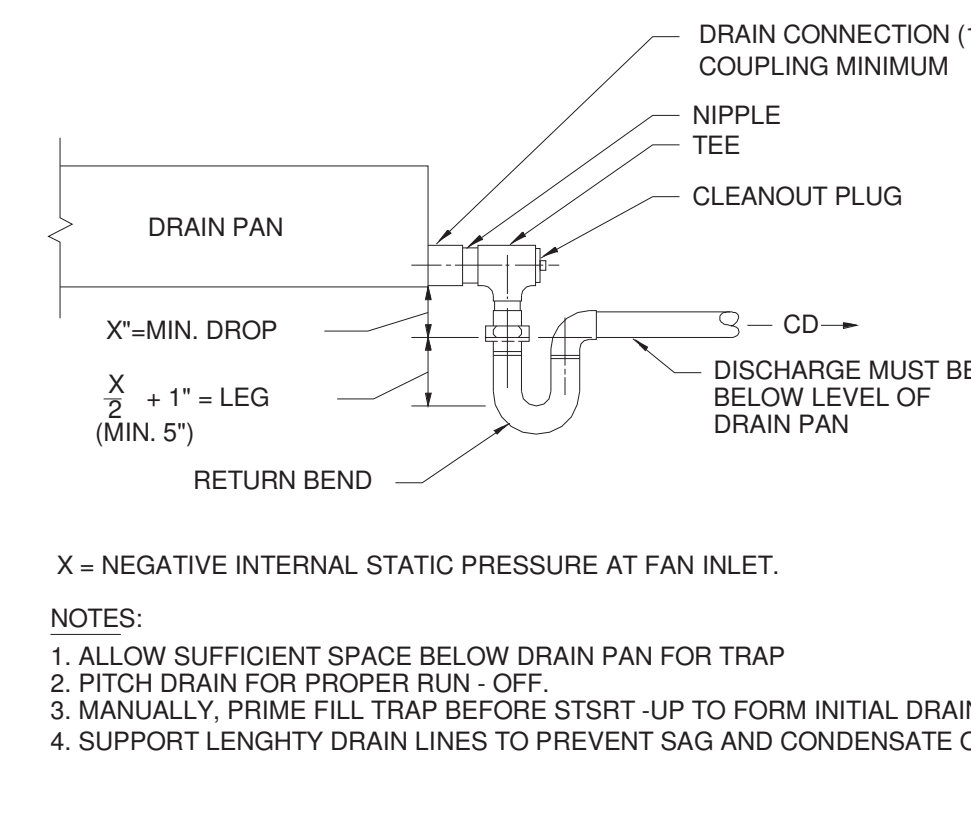
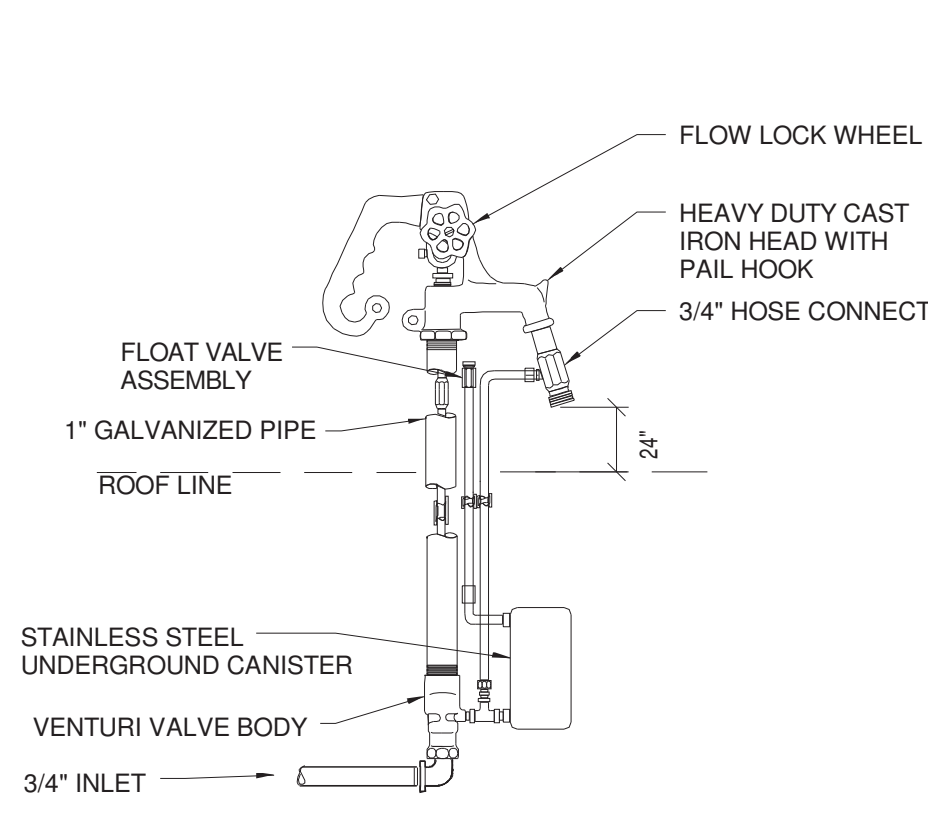
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ELEVATOR SUMP PUMP SCHEDULE								(GOULDS PUMP AS STANDARD)
Tag No.	LOCATION	GPM	HD (FT)	HP	RPM	ELECTRICAL DATA VOLT/PH/Hz	MODEL & MANUFACTURER	REMARKS
SP-1	ELEVATOR PIT	15	25	1/2	3450	115/1/60	MODEL 3885 GOULDS PUMP	SEE NOTE
NOTE: ELEVATOR SUMP PUMP: PROVIDE W/ GOULDS MODEL #ELKTWE0511H W/ CONTROL PANEL MODEL #A1SEE1, OIL SMART SWITCH, LIQUID SMART SENSOR, AND CHECK & SHUTOFF VALVES.								

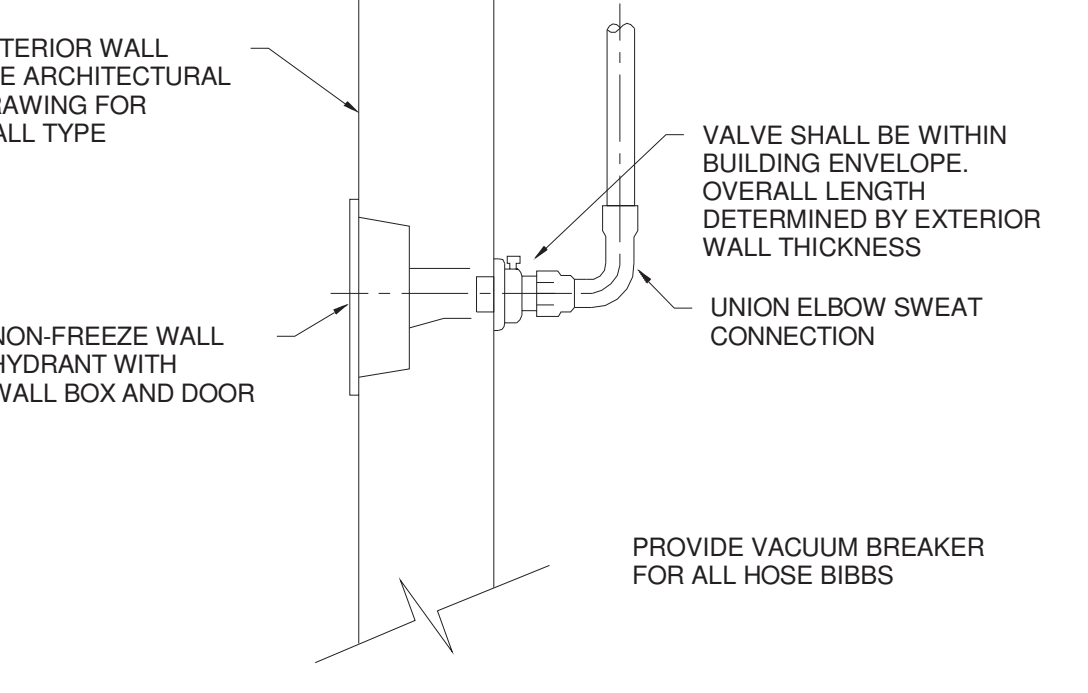
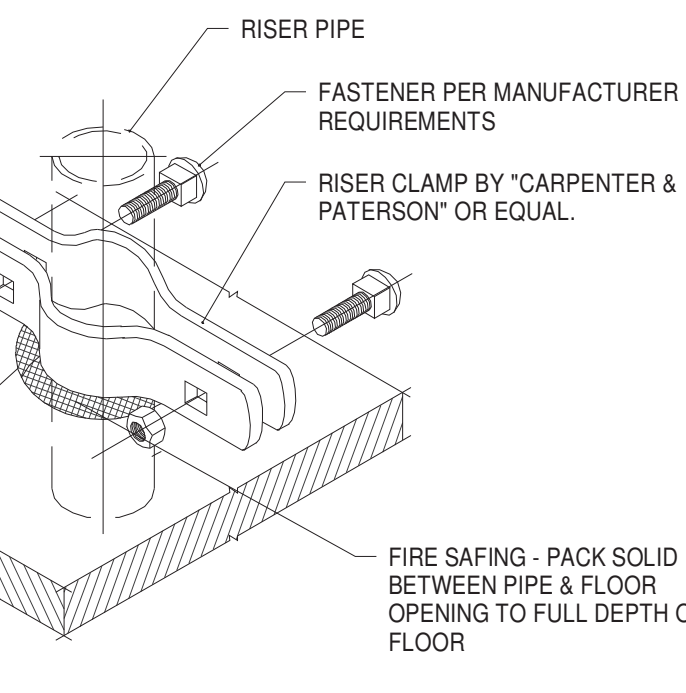
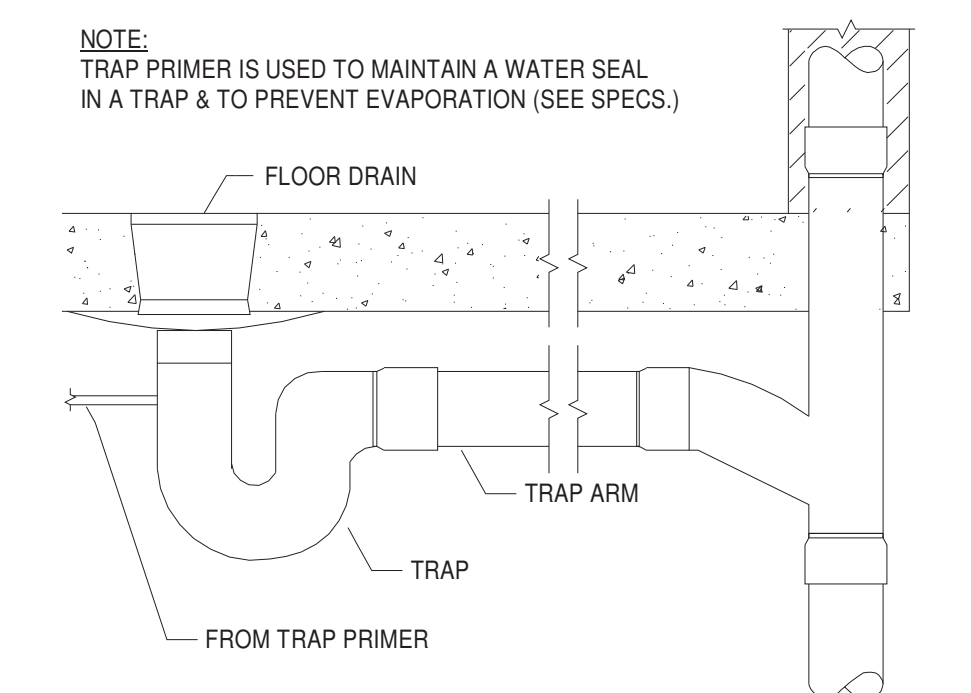
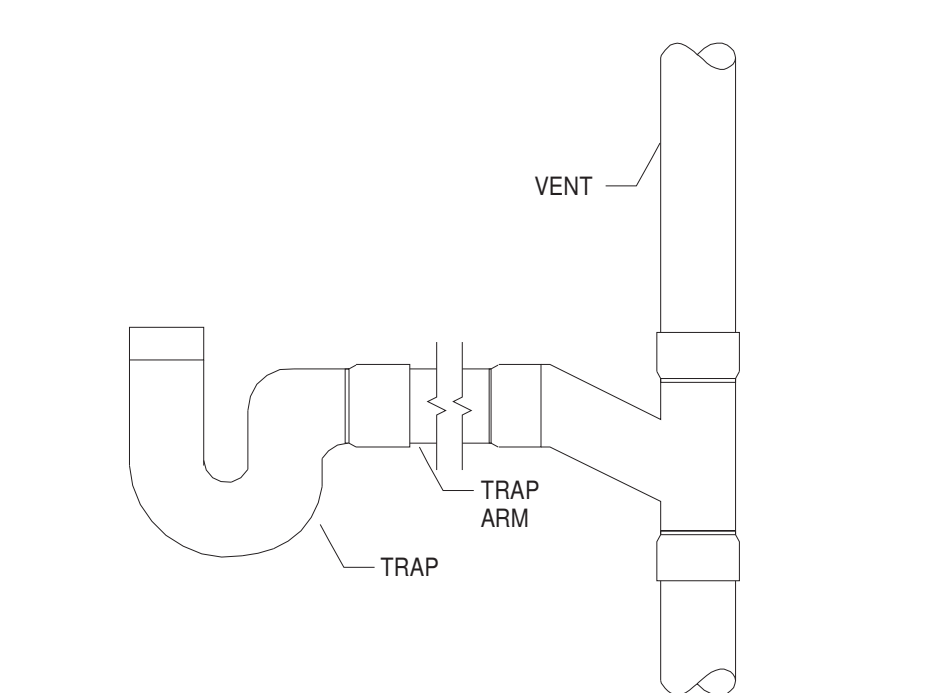


**1 NON-FREEZE POST HYDRANT DETAIL**  
 P6.03 / N.T.S.

**2 CONDENSATE DRAIN TRAP DETAIL**  
 P6.03 / N.T.S.

**3 WASHING MACHINE RECESSED WALL BOX DETAIL (ELEVATION)**  
 P6.03 / N.T.S.

**4 KITCHEN ISLAND VENT DETAIL**  
 P6.03 / N.T.S.

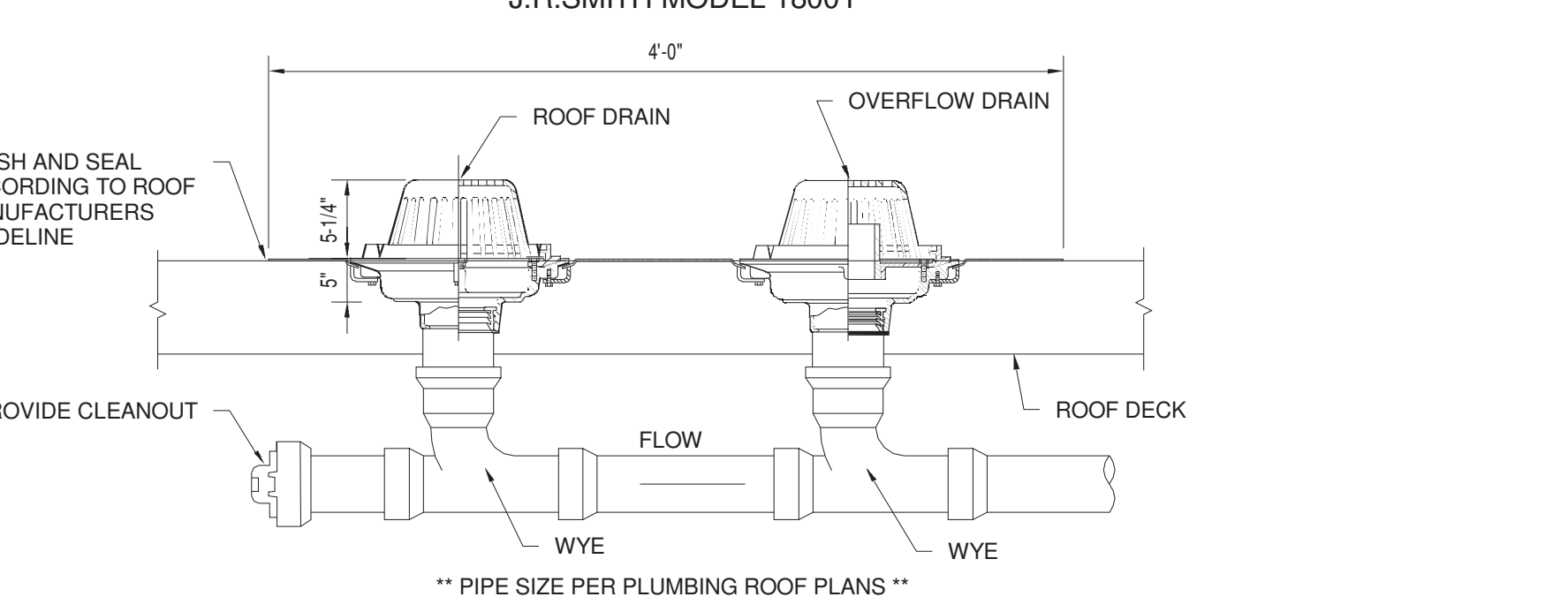
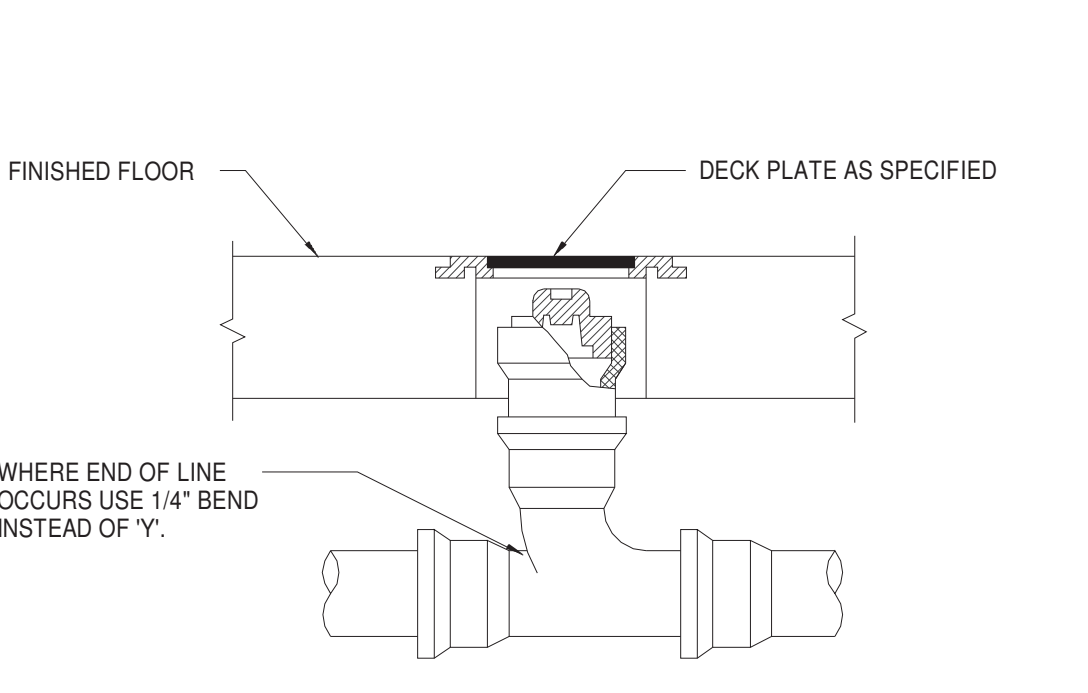
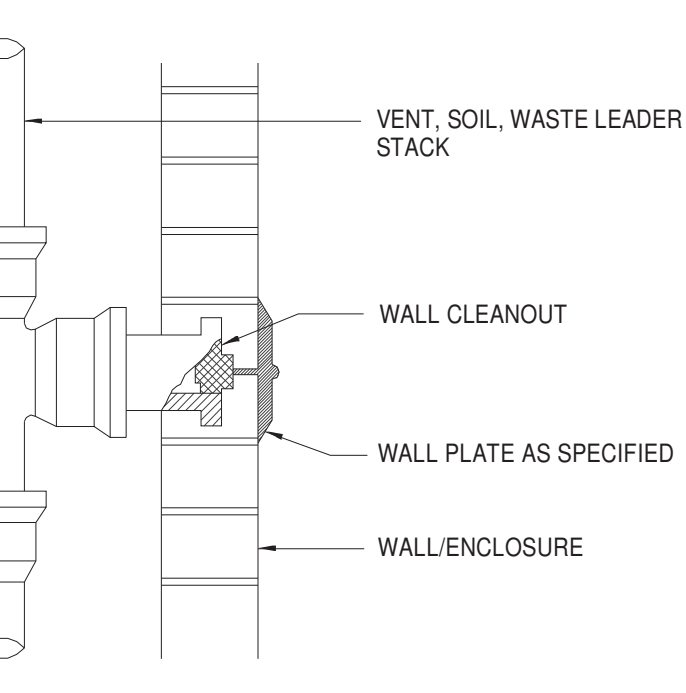
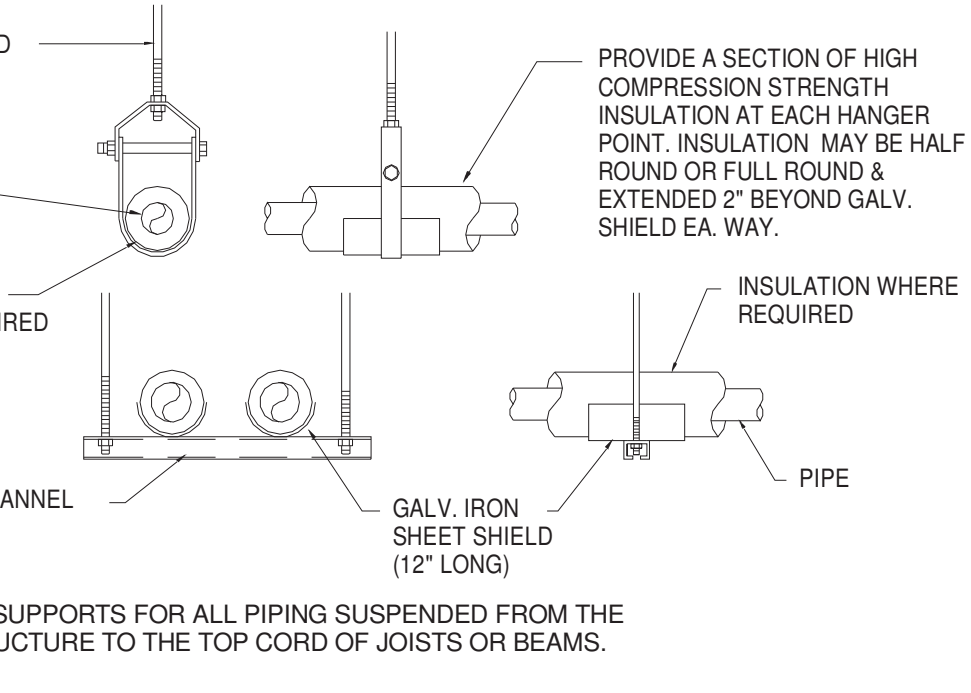
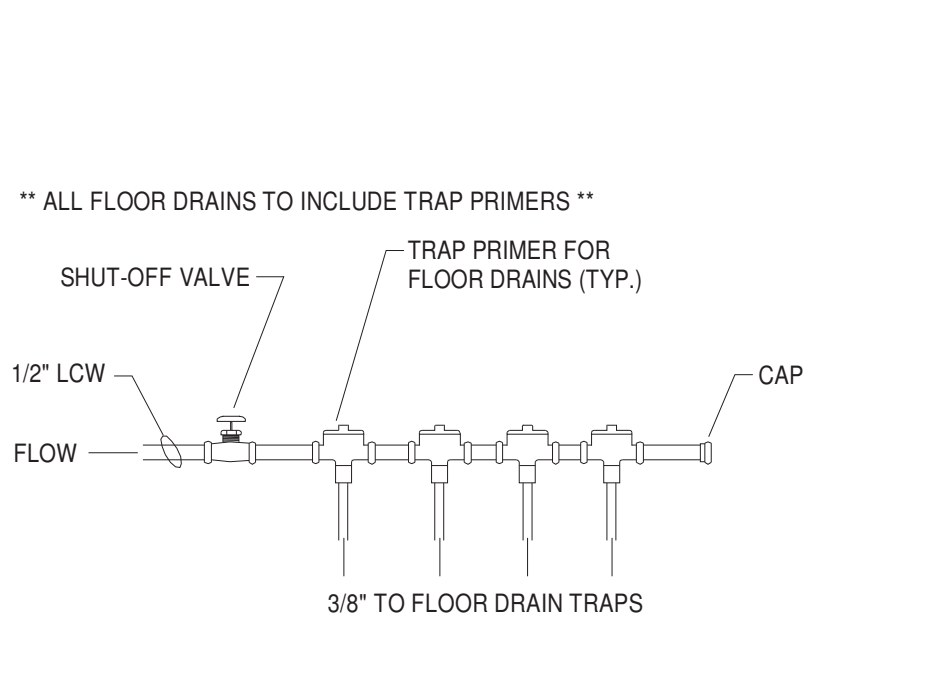


**5 TRAP DETAIL**  
 P6.03 / N.T.S.

**6 TRAP PRIMER HOOK-UP**  
 TYP. FOR ALL FLOOR DRAINS  
 P6.03 / N.T.S.

**7 PIPE RISER CLAMP**  
 P6.03 / N.T.S.

**8 WALL HYDRANT (HOSE BIB) DETAIL**  
 P6.03 / N.T.S.



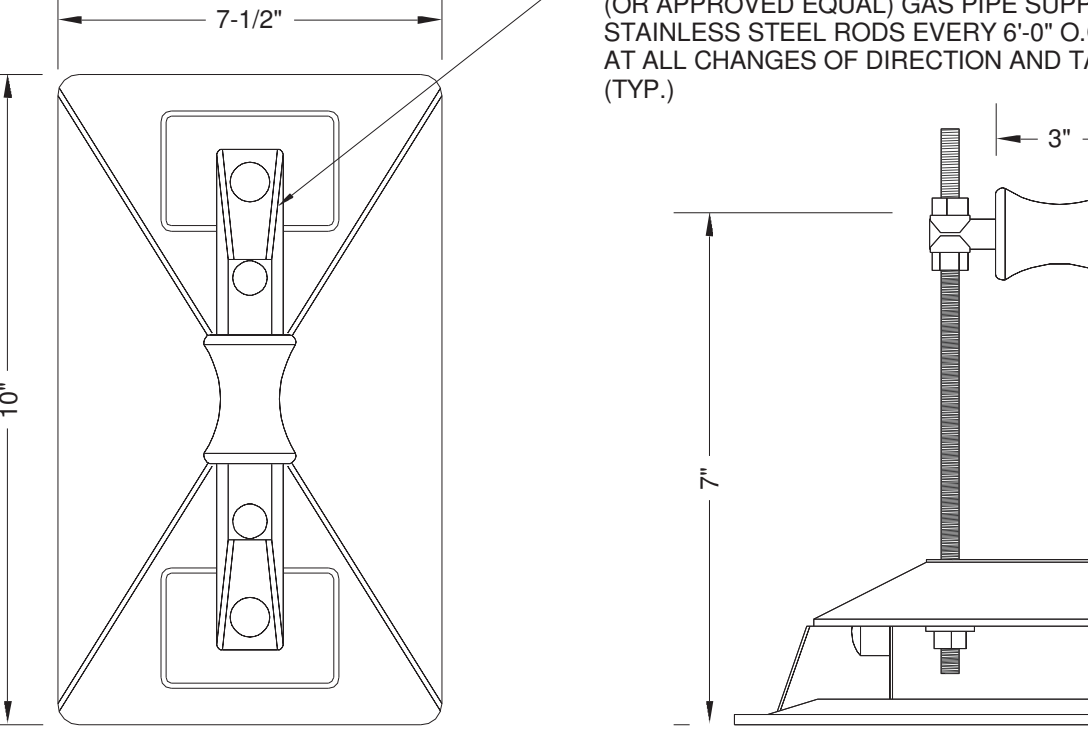
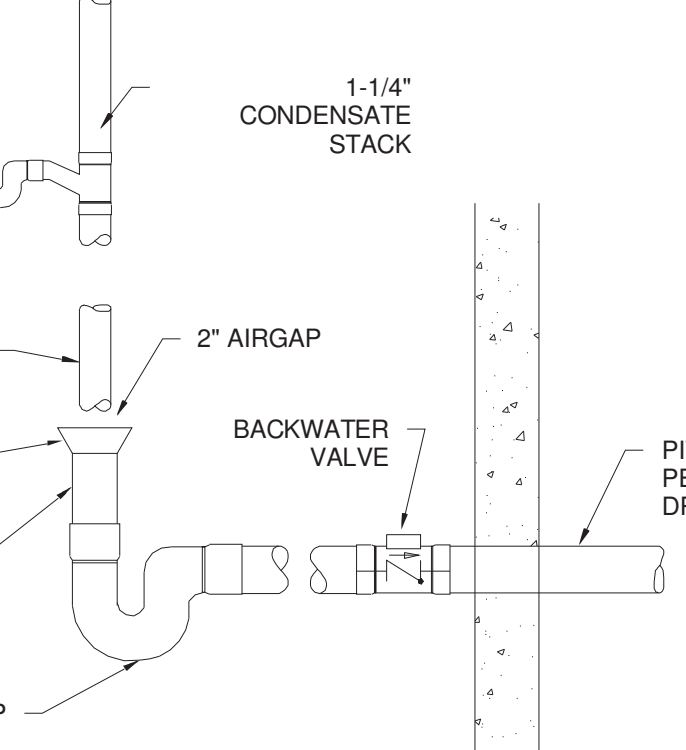
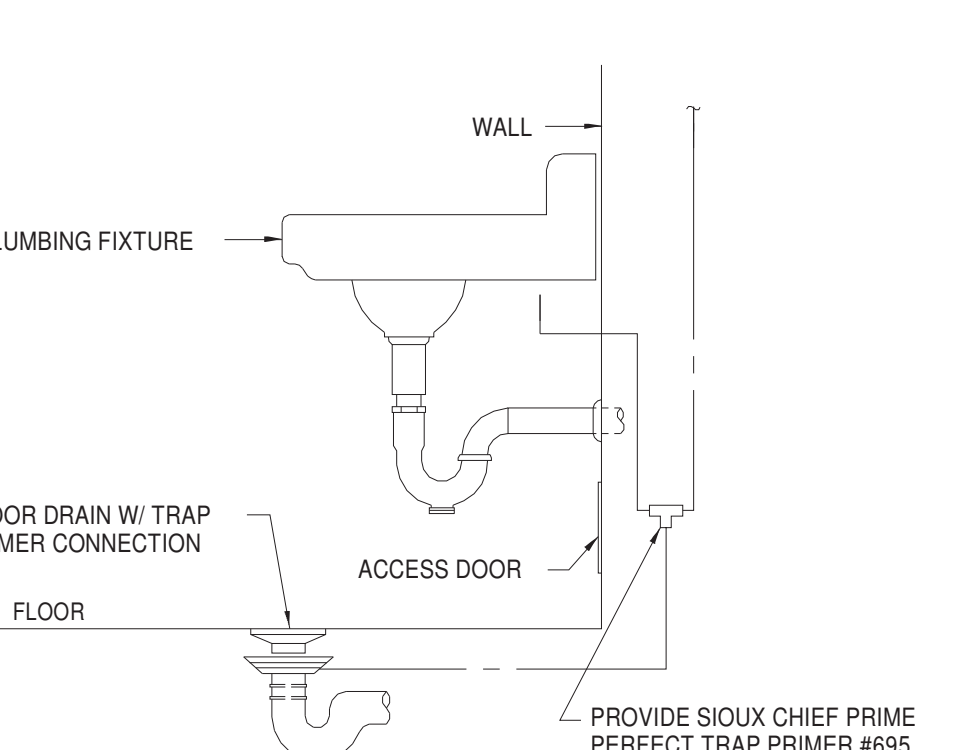
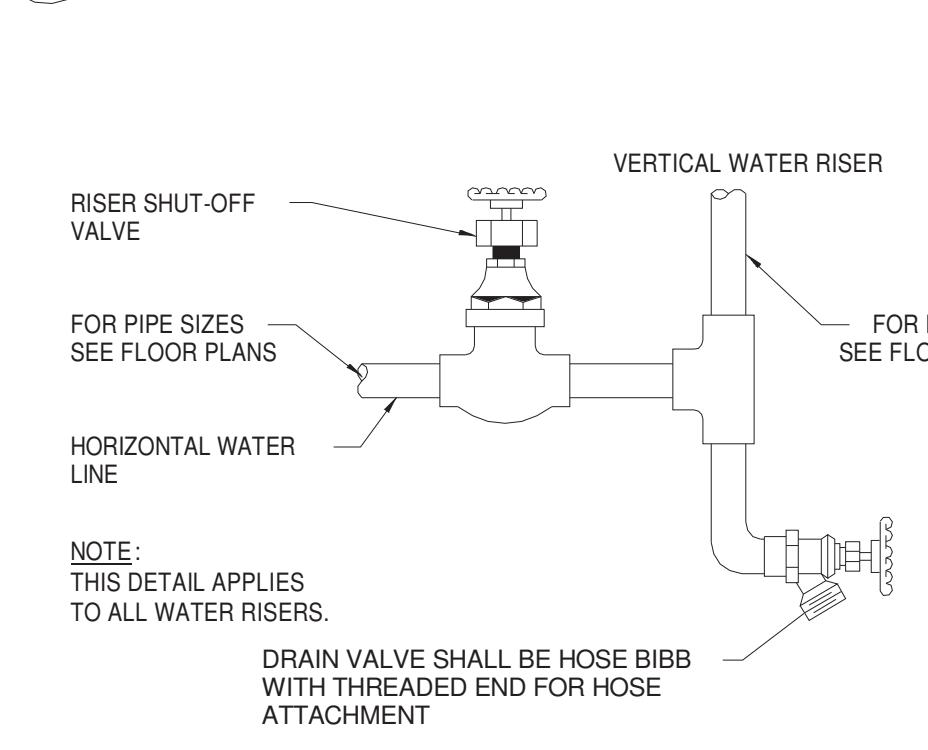
**10 TRAP PRIMER FEED DETAIL**  
 P6.03 / N.T.S.

**11 PIPE SUPPORT HANGERS**  
 P6.03 / N.T.S.

**12 WALL CLEANOUT DETAIL**  
 P6.03 / N.T.S.

**13 FLOOR CLEANOUT DETAIL**  
 P6.03 / N.T.S.

**14 ROOF DRAIN AND OVERFLOW DRAIN COMBINATION PIPING DETAIL**  
 P6.03 / N.T.S.

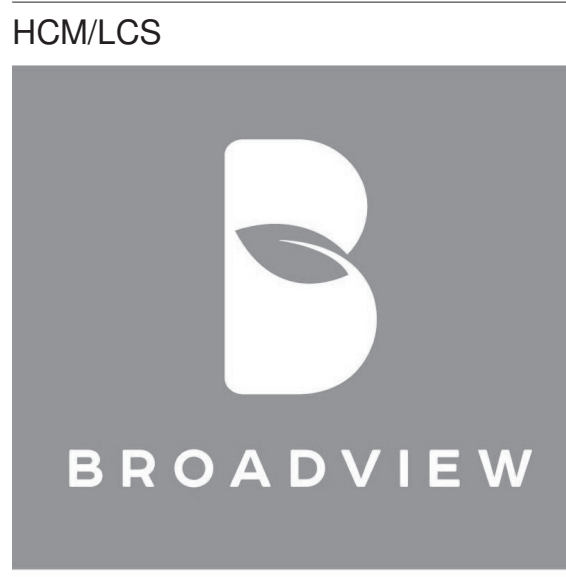


**15 RISER STOP & DRAIN VALVE**  
 P6.03 / N.T.S.

**16 FLOOR DRAIN & TRAP PRIMER**  
 P6.03 / N.T.S.

**17 CONDENSATE DRAIN STAND PIPE DETAIL**  
 P6.03 / N.T.S.

**18 GAS PIPE ROOF SUPPORT DETAIL**  
 P6.03 / N.T.S.



SENIOR LIVING AT PURCHASE COLLEGE

BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS

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Project Name  
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