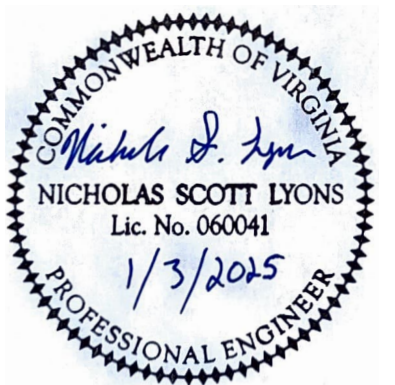




IR	DATE	DESCRIPTION
1	01/03/2025	FINAL DESIGN SUBMISSION

PIPING SYMBOLS	PIPE FITTING SYMBOLS	GENERAL NOTES	GENERAL DEMOLITION NOTES
<p>---(E)--- EXISTING PIPING TO REMAIN</p> <p> PLUMBING TO BE DEMOLISHED</p> <p>--- DOMESTIC COLD WATER (CW)</p> <p>--- DOMESTIC HOT WATER (HW)</p> <p>---G--- NATURAL GAS</p> <p>--- SANITARY VENT (V)</p> <p>--- SANITARY DRAIN (SAN)</p>	<p> GATE VALVE</p> <p> GLOBE VALVE</p> <p> HOSE VALVE WITH CAP</p> <p> BUTTERFLY VALVE</p> <p> CHECK VALVE</p> <p> BALANCING VALVE</p> <p> BALL VALVE</p> <p> PLUG VALVE</p> <p> SOLENOID VALVE</p> <p> SAFETY OR PRESSURE RELIEF, ANGLE VALVE</p> <p> SAFETY OR PRESSURE RELIEF, STRAIGHT THRU VALVE</p> <p> PRESSURE REDUCING VALVE (PRV)</p> <p> THERMOSTATIC MIXING VALVE (TMV)</p> <p> BLIND FLANGE</p> <p> WYE</p> <p> CAP</p> <p> ELBOW, 90°</p> <p> ELBOW, 90° TURNED UP</p> <p> ELBOW, 90° TURNED DOWN</p> <p> ELBOW, 45°</p> <p> TEE</p> <p> TEE, OUTLET TURNED UP</p> <p> TEE, OUTLET TURNED DOWN</p> <p> UNION</p> <p> FLEXIBLE PIPE CONNECTION</p> <p> PRESSURE GAUGE WITH SHUT OFF COOK AND SIPHON OR PULSATION DAMPENER</p> <p> TEMPERATURE GAUGE</p> <p> THERMOMETER</p> <p> FLOOR DRAIN W/TRAP</p> <p> TRENCH DRAIN</p> <p> FLOOR CLEAN OUT</p> <p> WALL CLEAN OUT</p> <p> WATER HAMMER ARRESTER</p> <p> HOSE BIBB</p> <p> WALL HYDRANT</p> <p> REDUCED PRESSURE ZONE BACKFLOW PREVENTER</p> <p> Y-TYPE STRAINER</p> <p> Y-TYPE STRAINER WITH HOSE DRAIN VALVE</p> <p> WATER METER</p> <p> PUMP</p>	<p>A. SEE GENERAL SHEETS FOR ABBREVIATIONS AND GENERAL SYMBOLS. CHARACTER IDENTIFIERS MAY ALSO BE USED FOR PIPING DESCRIPTIONS.</p> <p>B. PLUMBING LAYOUTS ARE SCHEMATIC ONLY. CONTRACTOR TO PROVIDE ANY ADDITIONAL DROPS, RISES, OR OFFSETS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT ROUTING OF WORK WITH ALL OTHER TRADES AND OBSTRUCTIONS.</p> <p>C. UNLESS OTHERWISE INDICATED, ROUTE ALL PIPING ABOVE CEILING. ROUTE ALL PIPING AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS.</p> <p>D. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING/CONTROL DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY. INSTALL THERMOMETER IN A VERTICAL AND TILTED POSITION TO ALLOW READING BY OBSERVER STANDING ON FLOOR.</p> <p>E. ALL WORK INDICATED IS NEW UNLESS NOTED AS EXISTING.</p> <p>F. VERIFY EXACT SIZES AND LOCATIONS OF EXISTING WORK PRIOR TO PROVIDING NEW WORK.</p> <p>G. SOME SYMBOLS INDICATED ON THIS LEGEND SHEET MAY NOT APPEAR ON THE DRAWINGS.</p> <p>H. DO NOT LOCATE PLUMBING WORK IN ELEVATOR, ELECTRICAL, OR COMMUNICATION ROOMS, EXCEPT FOR RUNOUTS SPECIFICALLY SERVING THE RESPECTIVE ROOM.</p> <p>I. WATER HAMMER ARRESTORS SHALL BE INSTALLED, SIZED, AND LOCATED PER PDI WH-201. LOCATE WATER HAMMER ARRESTORS WITHIN 6 FEET OF QUICK ACTING VALVE.</p> <p>J. CONTRACTOR TO COORDINATE AND PROVIDE ACCESS PANELS FOR ALL COMPONENTS INSTALLED IN INACCESSIBLE AREAS THAT MAY REQUIRE MAINTENANCE.</p> <p>K. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE INSTALLED IN A NEAT AND ORDERLY MANNER.</p> <p>L. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, MAINTENANCE REQUIREMENTS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.</p> <p>M. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT AND IN BYPASSES TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.</p> <p>N. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR MATERIALS.</p> <p>O. TYPICAL DETAILS THROUGHOUT THE DRAWING SET SHALL APPLY FOR ALL APPLICABLE CONDITIONS, EVEN IF NOT SPECIFICALLY SHOWN OR REFERENCED.</p>	<p>A. DEMOLISH ALL PLUMBING FIXTURES, ASSOCIATED COMPONENTS, AND PIPING THAT WILL BE RENDERED OBSOLETE DUE TO CHANGES TO THE BUILDING. COORDINATE THE EXTENT OF DEMOLITION AND COMPONENTS TO REMAIN WITH THE NEW WORK SHEETS. FIELD VERIFY ACTUAL PIPE ROUTING.</p> <p>B. REMOVE ALL APPLICABLE PIPING TO WHERE IT CONNECTS TO ACTIVE MAINS THAT WILL NOT BE DEMOLISHED. AFTER THE DEMOLITION IS COMPLETE NO DEAD-END PIPING SHALL REMAIN. UNDER SLAB PIPING THAT IS RENDERED OBSOLETE BY CHANGES TO THE BUILDING CAN BE ABANDONED IN PLACE IF THE FOLLOWING CONDITIONS ARE MET:</p> <ol style="list-style-type: none"> 1) INACTIVE PIPING SHALL BE DISCONNECTED AND CAPPED AS CLOSE AS POSSIBLE TO THE ACTIVE MAIN AND NO MORE THAN 2 TIME THE PIPE DIAMETER. 2) REMOVE PIPE STUB-OUTS THROUGH THE SLAB AND REPAIR SLAB TO MATCH EXISTING. 3) DOES NOT CONFLICT WITH OTHER TRADES. <p>C. BEFORE WORK HAS BEGUN, CONTRACTOR SHALL MAKE A THOROUGH SURVEY OF THE BUILDING AND NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIMSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.</p> <p>D. DRAWINGS SHOWING EXISTING CONSTRUCTION AND UTILITIES ARE FOR REFERENCE ONLY AND HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL OBTAIN COPIES OF EXISTING DRAWINGS AND VERIFY ACTUAL FIELD CONDITIONS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.</p> <p>E. DURING THE PLUMBING DEMOLITION PROCESS ANY DAMAGE THAT IS DONE TO THE BUILDING AREAS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING.</p> <p>F. IF HAZARDOUS MATERIALS ARE DISCOVERED DURING REMOVAL OPERATIONS, STOP WORK AND NOTIFY THE OWNER. HAZARDOUS MATERIALS INCLUDE BUT ARE NOT LIMITED TO REGULATED ASBESTOS CONTAINING MATERIALS, LEAD, PCB'S AND MERCURY.</p>

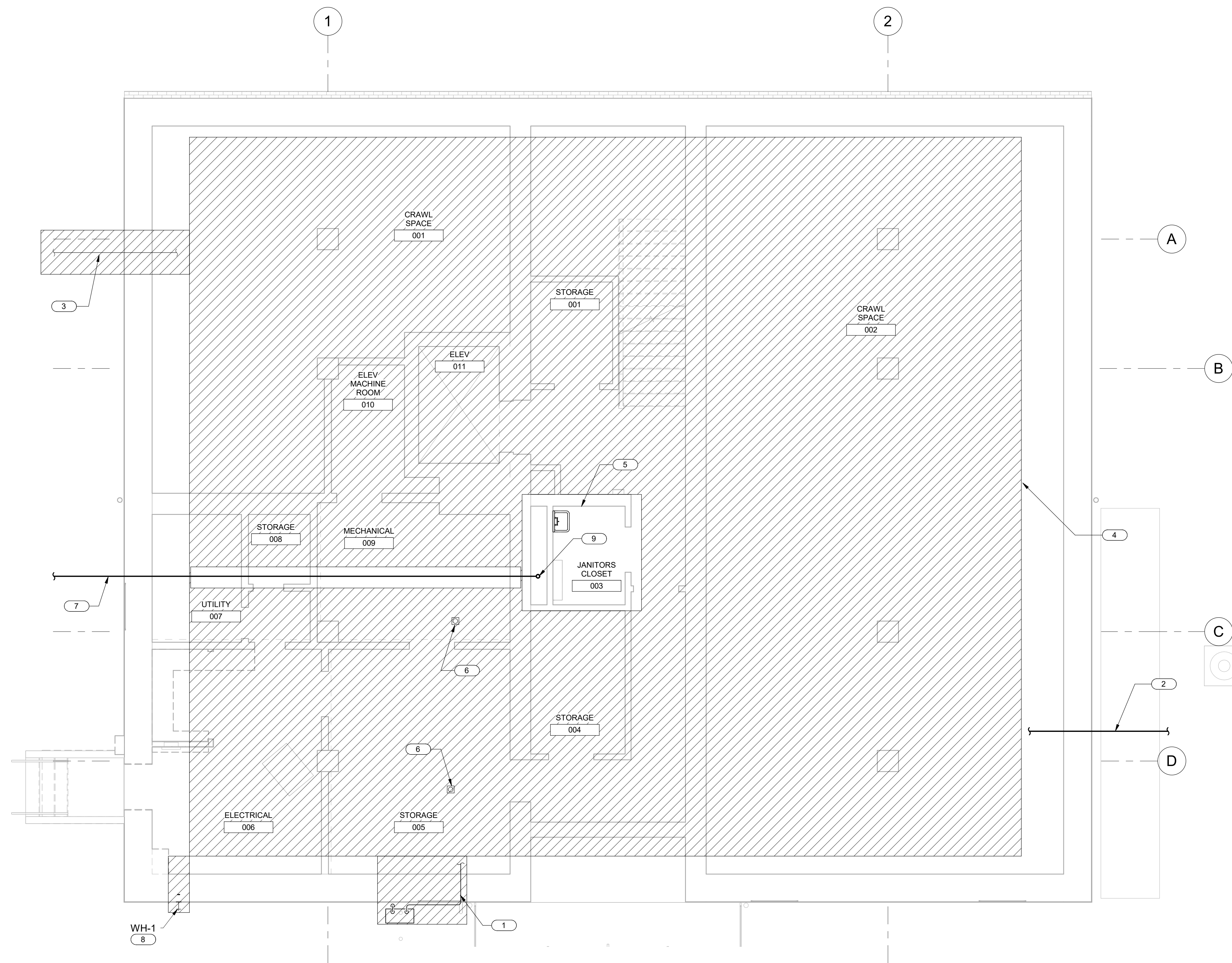


NO.	DATE	DESCRIPTION
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GENERAL NOTES THIS SHEET:
 A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

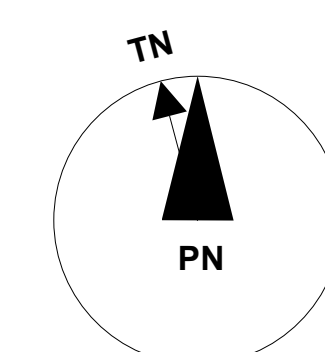
SHEET KEYNOTES:

- 1 DEMOLISH 2" NATURAL GAS CONNECTION. COORDINATE METER REMOVAL WITH NATURAL GAS PROVIDER AND PATCH HOLES IN BUILDING TO MATCH EXISTING. DEMOLISH ALL REMAINING INTERIOR PIPING.
- 2 EXISTING 6" SANITARY. RETAIN FOR FUTURE USE AND DEMOLISH ALL INTERIOR PIPING. PREPARE SANITARY PIPING IN CRAWL SPACE FOR NEW CONNECTION.
- 3 EXISTING 1" WATERLINE. DEMOLISH INTERIOR AND EXTERIOR PIPING AND PREPARE FOR NEW LARGER PIPE IN NEW LOCATION.
- 4 DEMOLISH ALL PLUMBING EXCEPT AS NOTED. DEMOLITION SHALL INCLUDE ALL SUPPLY, DRAIN, VENT, AND NATURAL GAS PIPING, AS WELL AS ALL FIXTURES AND EQUIPMENT.
- 5 DEMOLISH JANITOR'S SINK, HW, AND CW PIPING. RETAIN EXISTING DRAIN AND VENT PIPING UP TO CONNECTION POINT. PREPARE CONNECTIONS FOR REPLACEMENT IN-KIND JANITOR'S SINK.
- 6 DEMOLISH ALL PLUMBING EXCEPT FOR FLOOR DRAIN AND ITS ASSOCIATED VENT UP TO CONNECTION POINT.
- 7 EXISTING 4" SANITARY. RETAIN AS-IS.
- 8 REMOVE EXISTING WALL HYDRANT AND REPAIR MORTAR JOINT. PROVIDE NEW HYDRANT IN NEW LOCATION ON SHEET P-100.
- 9 RETAIN JANITOR'S SINK DRAIN PIPING, FLOOR DRAIN PIPING, AS WELL AS VENT SERVING THOSE FIXTURES. CURRENT ROUTING IS UNKNOWN. RECONFIGURE VENT TO FIT NEW FLOOR PLANS ON UPPER FLOORS.



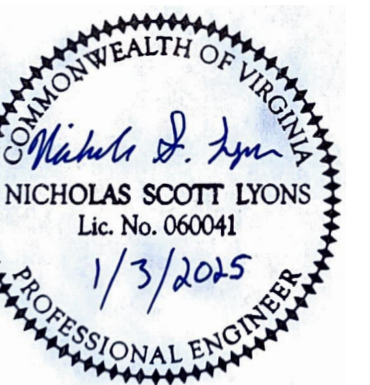
BASEMENT DEMOLITION PLAN

1/4" = 1'-0"



4' 2' 0' 4' 8'

1/4" = 1'-0" GRAPHIC SCALES



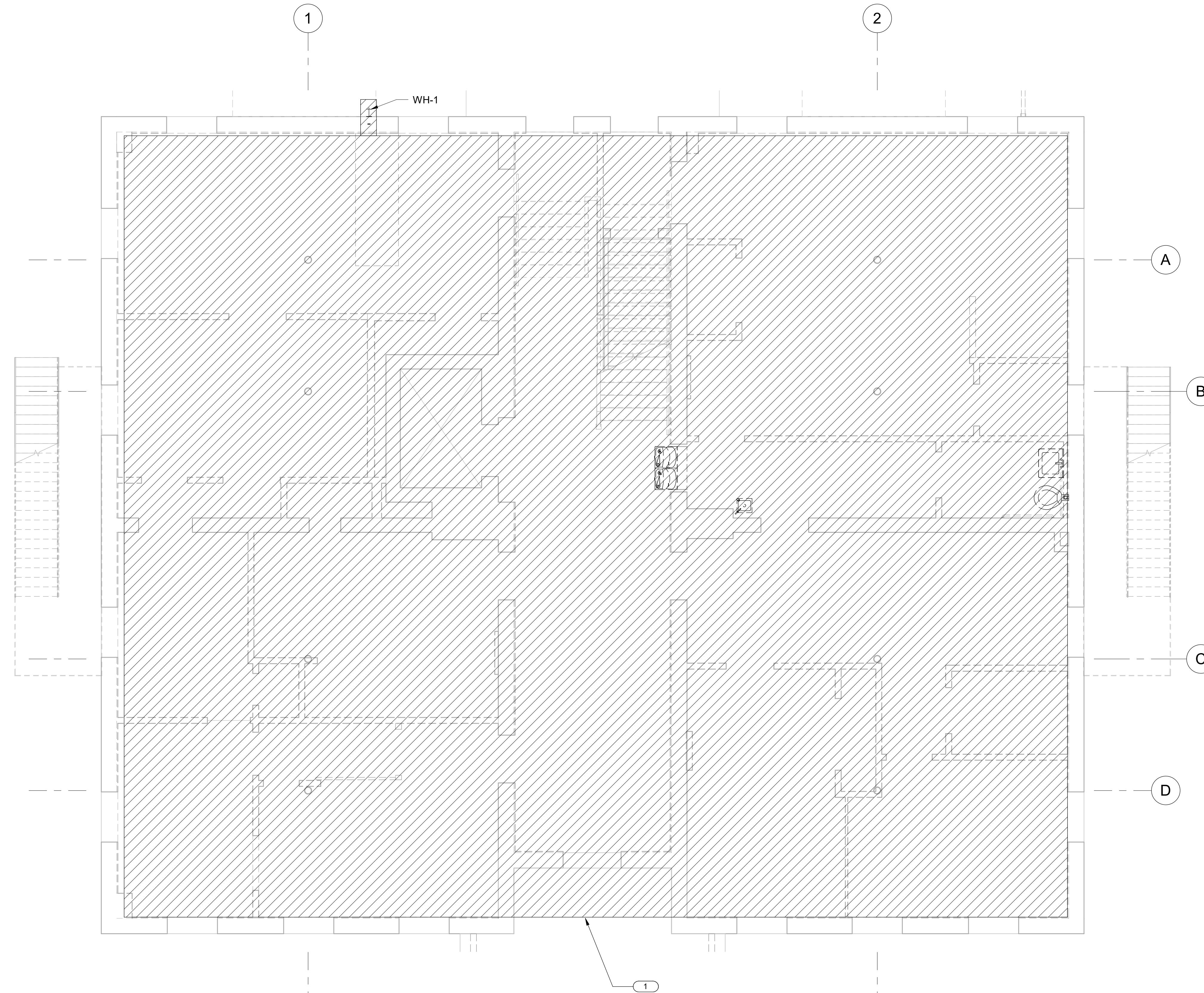
IR	DATE	DESCRIPTION
1	01/03/2025	FINAL DESIGN SUBMISSION

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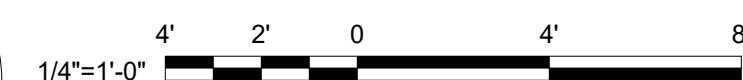
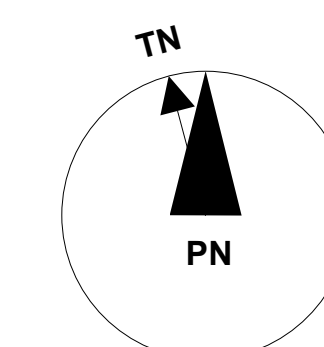
A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

1 DEMOLISH ALL PLUMBING EXCEPT AS NOTED. DEMOLITION SHALL INCLUDE ALL SUPPLY, DRAIN, VENT, AND NATURAL GAS PIPING, AS WELL AS ALL FIXTURES AND EQUIPMENT.



FIRST FLOOR DEMOLITION PLAN
 1/4" = 1'-0"



GRAPHIC SCALES



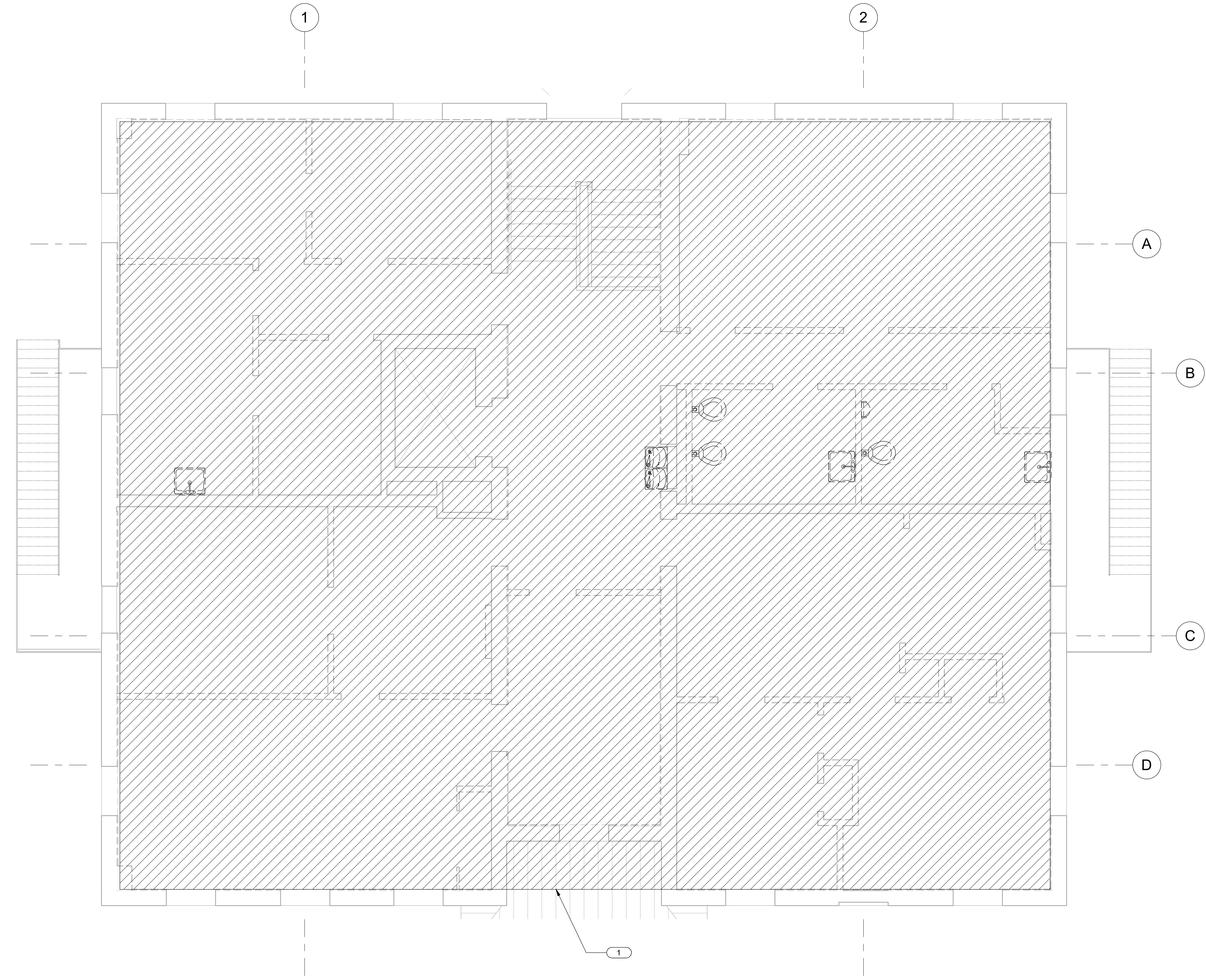
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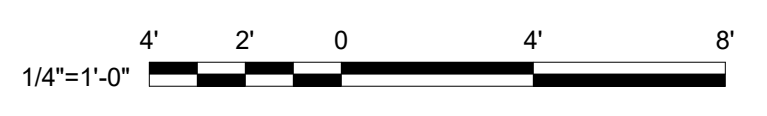
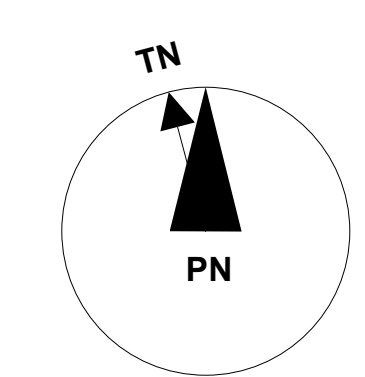
A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

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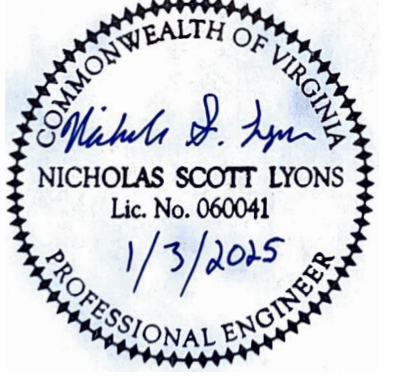
- 1 DEMOLISH ALL PLUMBING EXCEPT AS NOTED. DEMOLITION SHALL INCLUDE ALL SUPPLY, DRAIN, VENT, AND NATURAL GAS PIPING, AS WELL AS ALL FIXTURES AND EQUIPMENT.



SECOND FLOOR DEMOLITION PLAN
 1/4" = 1'-0"



GRAPHIC SCALES



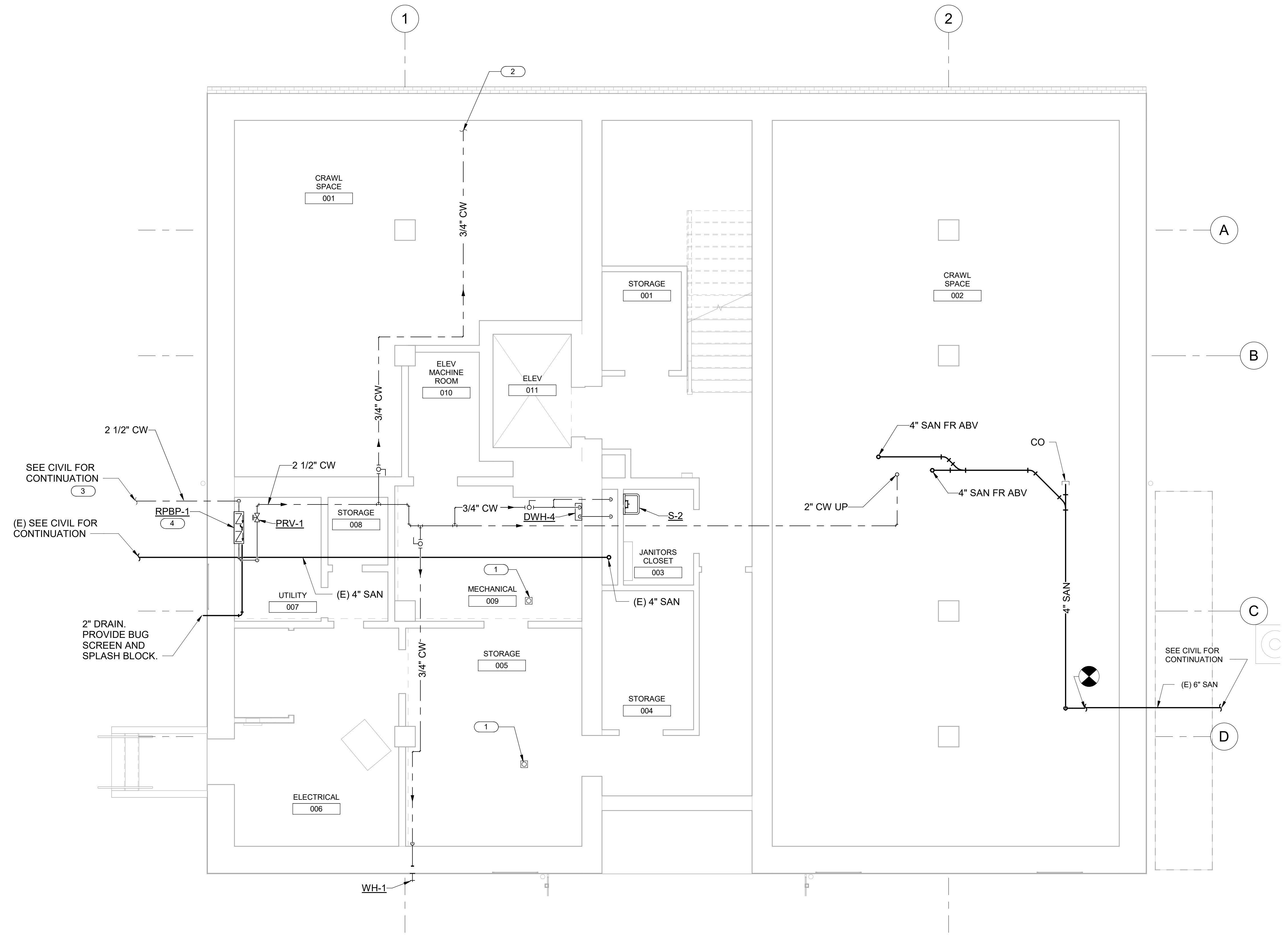
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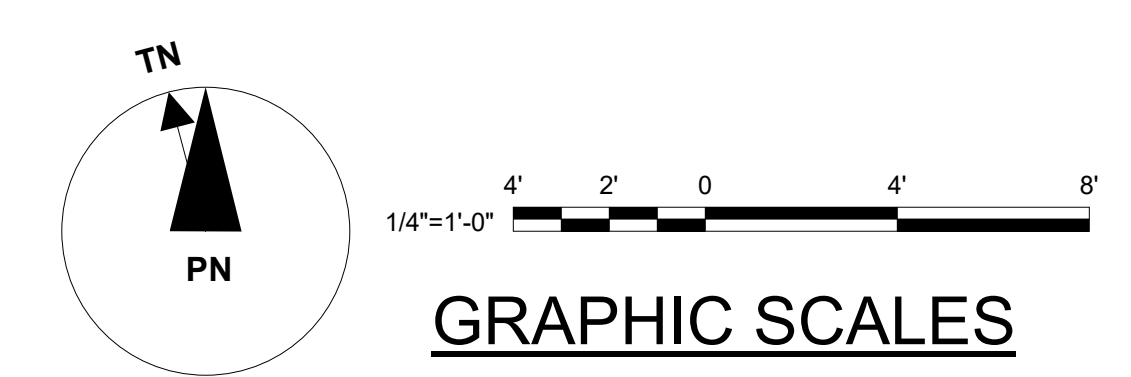
A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

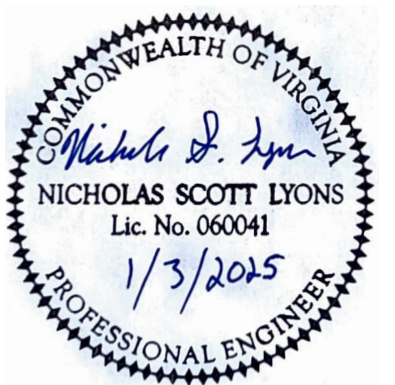
SHEET KEYNOTES:

- EXISTING FLOOR DRAINS AND ASSOCIATED PIPING TO REMAIN.
- CONNECT NEW WATERLINE TO FIRST FLOOR WALL HYDRANT.
- SEE CIVIL DRAWINGS FOR NEW 2-1/2" WATERLINE AND 2" METER LOCATION. COORDINATE WITH CITY FOR METER REQUIREMENTS.
- SEE RPPB-1 CONNECTION DETAILS ON P-501 FOR MORE INFORMATION.



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



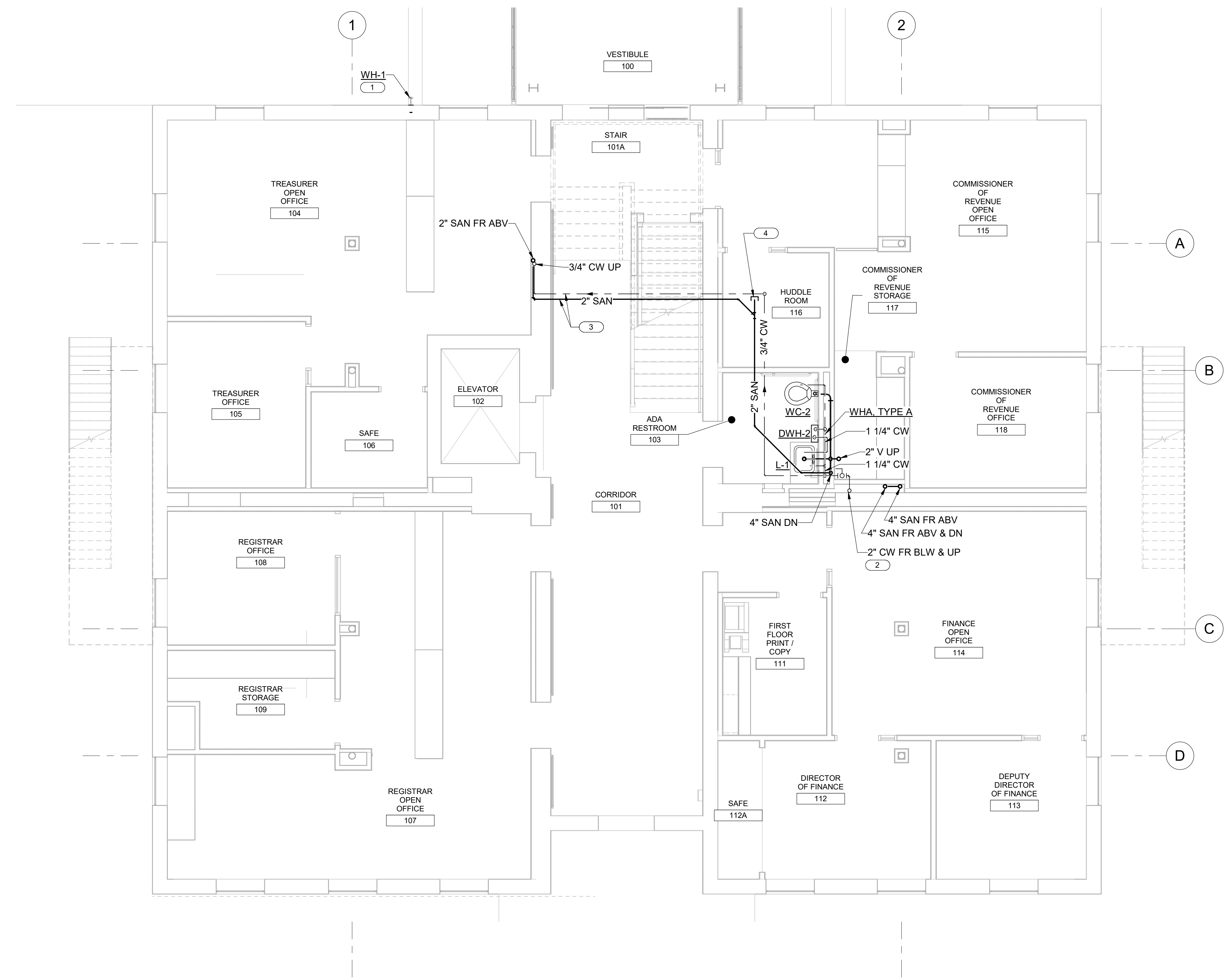


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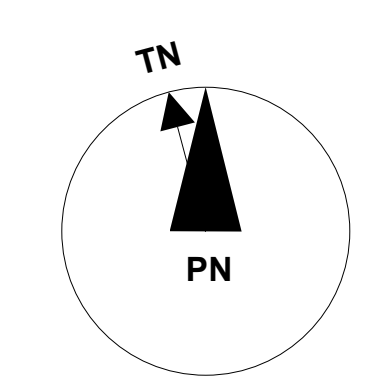
GENERAL NOTES THIS SHEET:
 A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

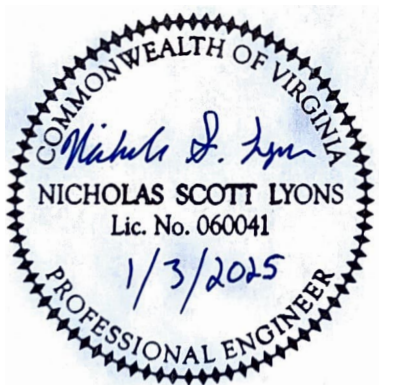
- CONNECT NEW WATERLINE TO FIRST FLOOR WALL HYDRANT.
- PROVIDE SHUTOFF VALVE IN VERTICAL SUPPLY PIPE SERVING SECOND FLOOR. LOCATE ABOVE CEILING TILES.
- ROUTE PIPING BETWEEN FLOOR JOISTS ABOVE BEADBOARD CEILING.
- PROVIDE CLEANOUT ABOVE CEILING. COORDINATE LOCATION TO AVOID LIGHTING, DUCTWORK, AND FIRE PROTECTION DEVICES.



FIRST FLOOR PLUMBING PLAN
 1/4" = 1'-0"

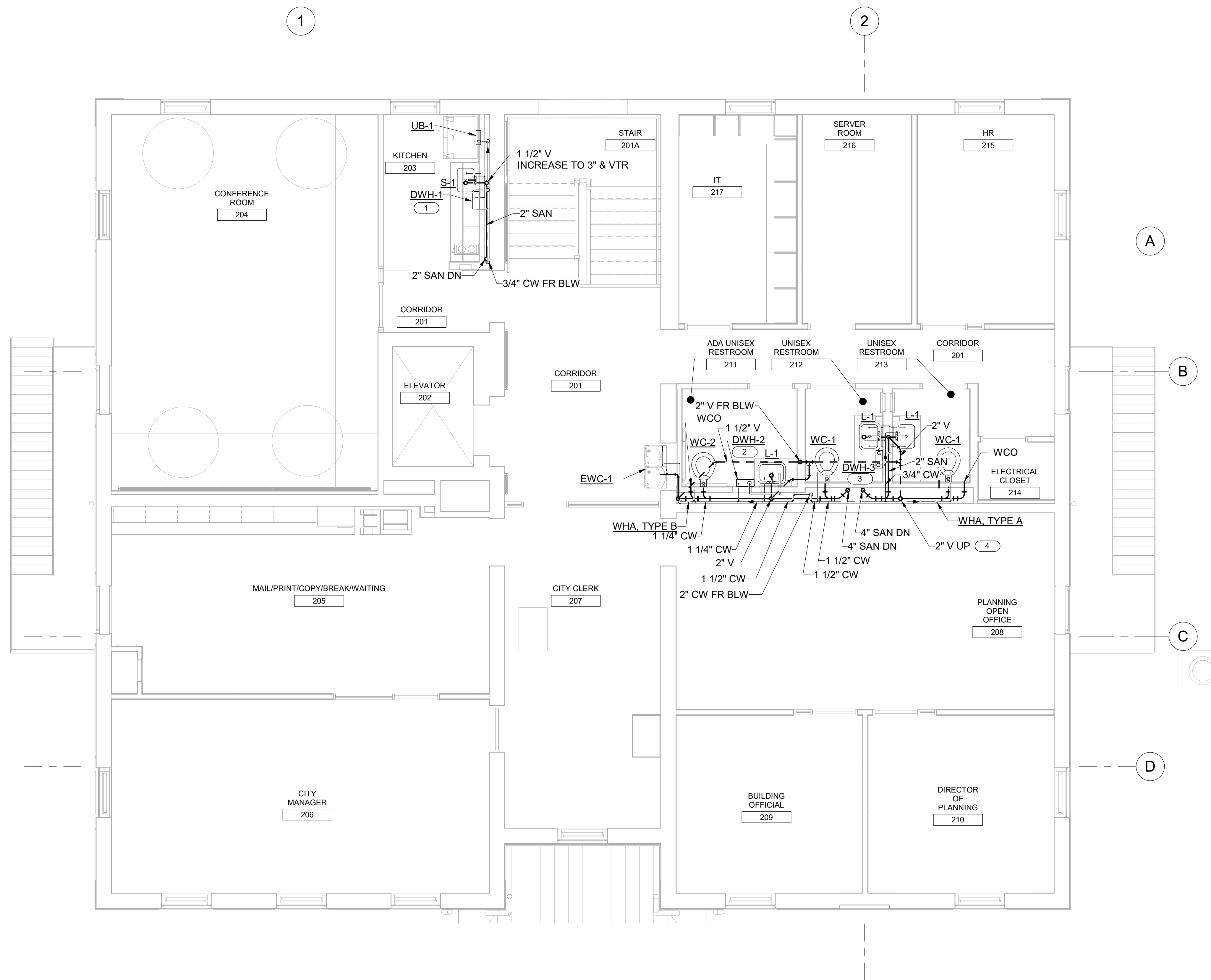


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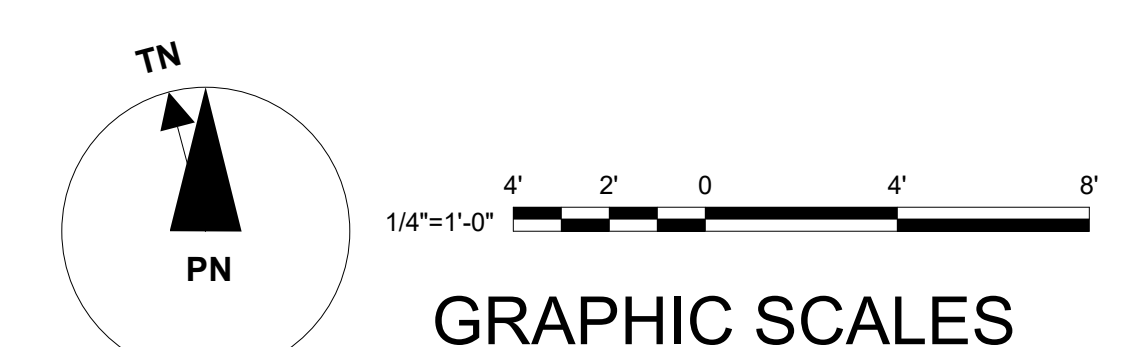


GENERAL NOTES THIS SHEET:
 A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

- SHEET KEYNOTES:**
- 1 SHOWN OUT OF POSITION FOR CLARITY. MOUNT DWH IN CABINET BELOW SINK.
 - 2 SHOWN OUT OF POSITION FOR CLARITY. MOUNT DWH BELOW LAVATORY.
 - 3 SHOWN OUT OF POSITION FOR CLARITY. MOUNT DWH BELOW LAVATORY AND PIPE TO SERVE RESTROOMS 213 & 214.
 - 4 THE NEW VENT TO EXISTING VENT PIPING IN ATTIC. REUSE EXISTING VENT THROUGH ROOF.



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



ISSUE/REVISION

IR	DATE	DESCRIPTION
1	01/03/2025	FINAL DESIGN SUBMISSION

KEY PLAN

PROJECT NUMBER

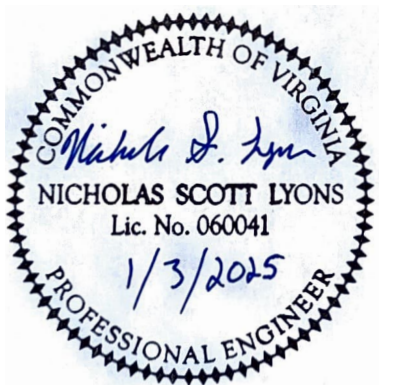
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SHEET TITLE

SECOND FLOOR PLUMBING PLAN

SHEET NUMBER

P-102

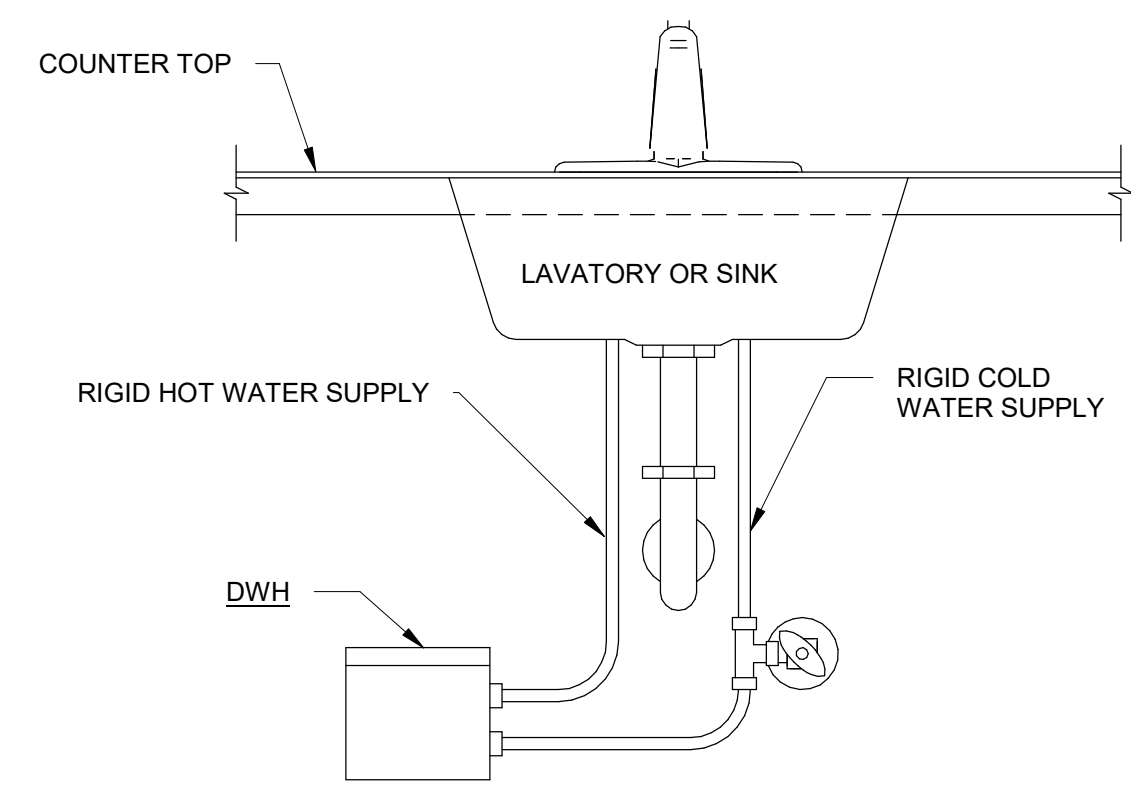


IR	DATE	DESCRIPTION
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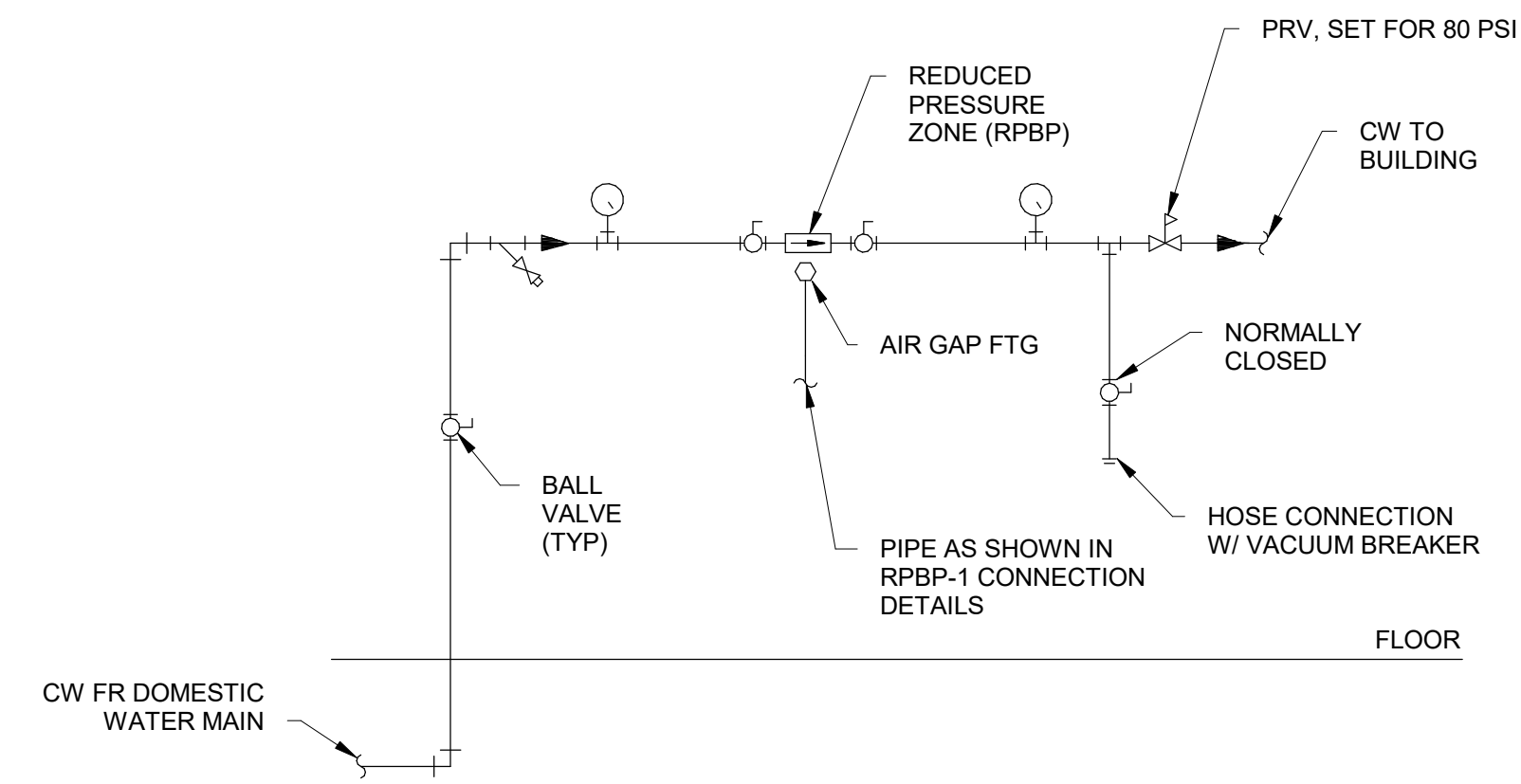
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DETAILS

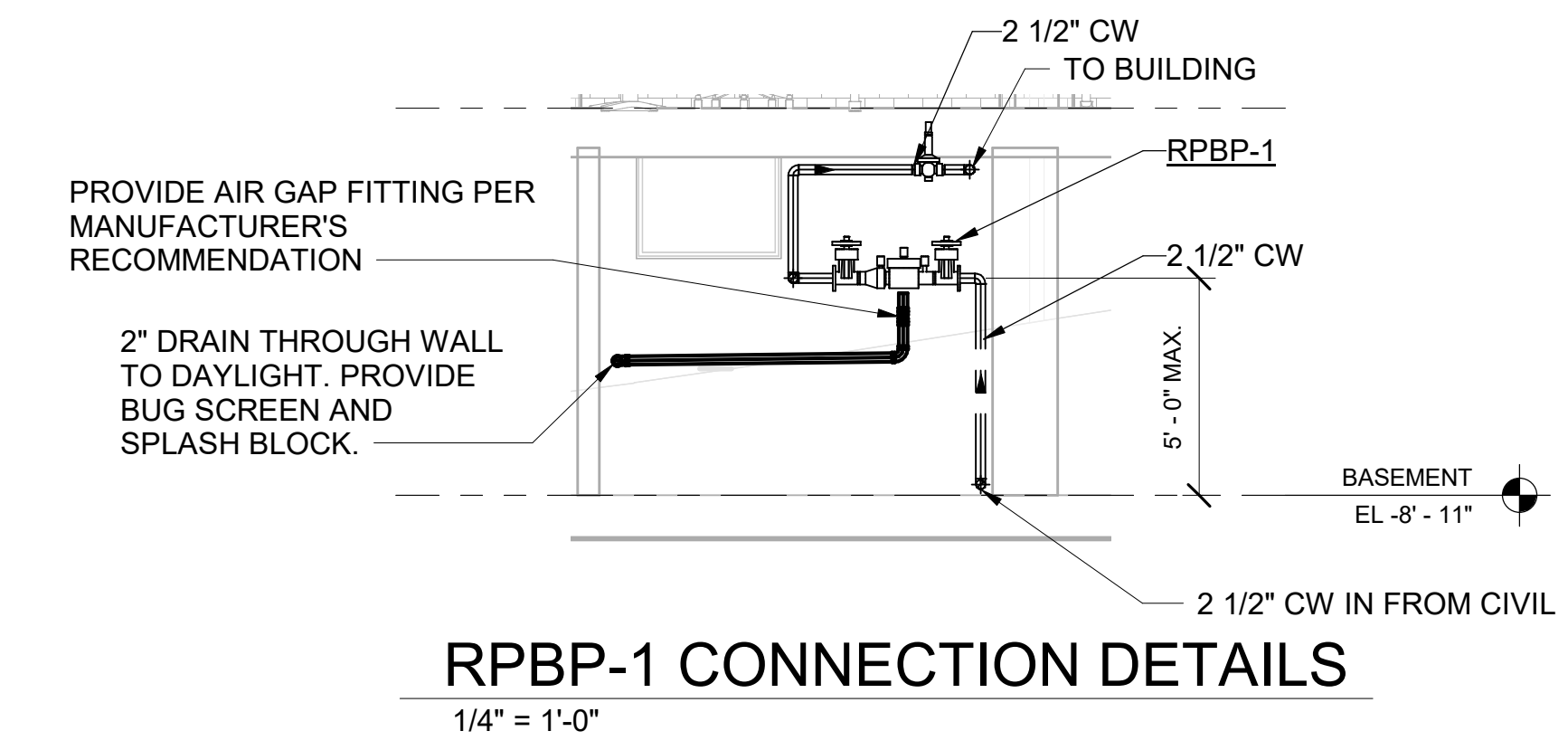
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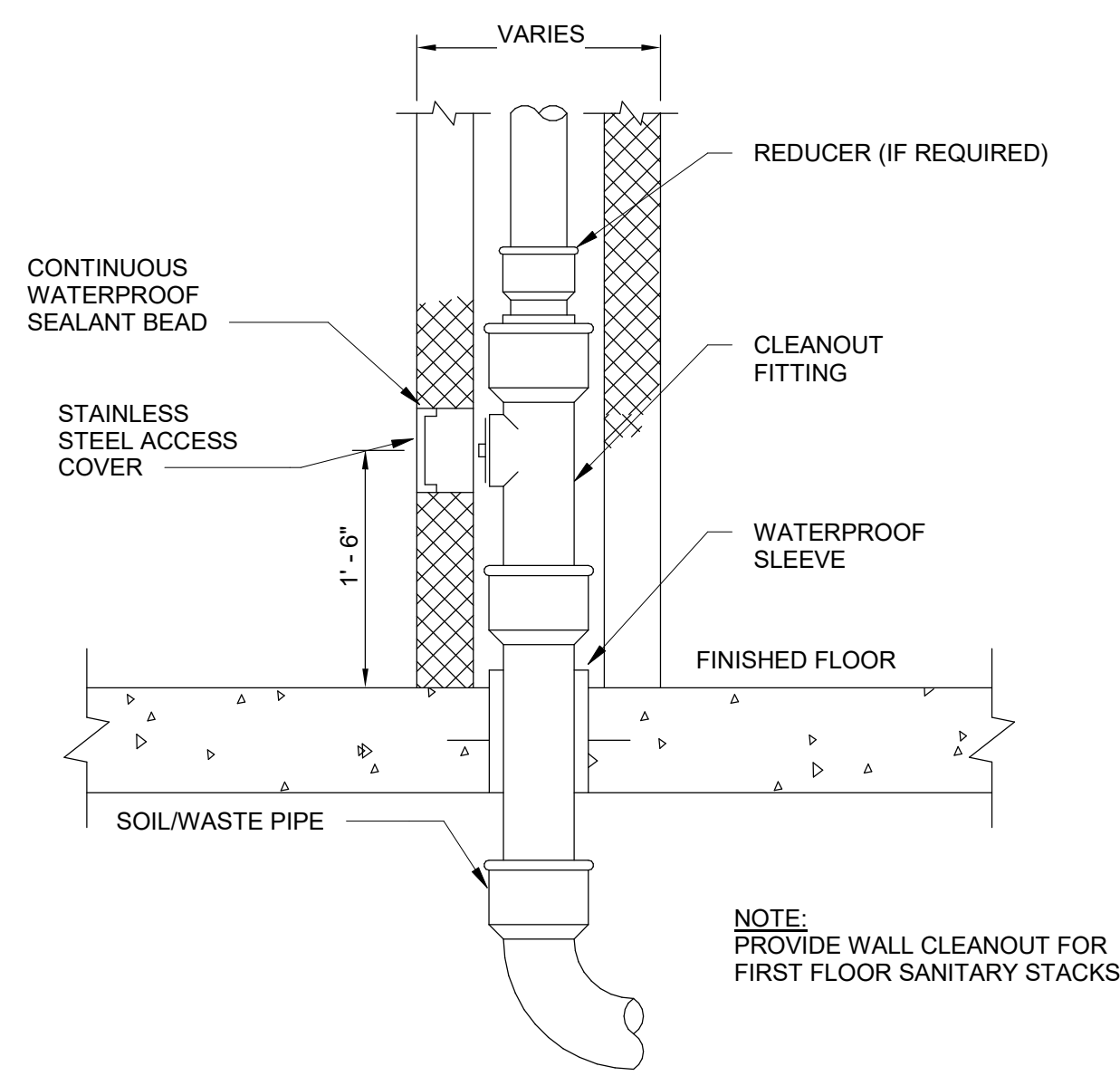
INSTANTANEOUS WATER HEATER
 NO SCALE



WATER SERVICE ENTRANCE DETAIL
 NO SCALE



RPBP-1 CONNECTION DETAILS
 1/4" = 1'-0"



WALL CLEANOUT
 NO SCALE



NO.	DATE	DESCRIPTION
1	01/03/2025	FINAL DESIGN SUBMISSION

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION	MOUNTING HEIGHT	COLD WATER SIZE	HOT WATER SIZE	TEMPERED WATER SIZE	TRAP SIZE	DRAIN SIZE	VENT SIZE	NOTES
EWC-1	BI-LEVEL WATER COOLER W/ BOTTLE FILLER	PER ADA	1/2"	-	-	1 1/4"	1 1/2"	1 1/2"	-
L-1	UNDERMOUNT LAVATORY, 0.5 GPM	COUNTERTOP	1/2"	1/2"	3/8"	1 1/4"	1 1/2"	1 1/2"	PROVIDE ASSE 1070 POINT OF USE MIXING VALVE UNDER FIXTURE OR GROUP OF FIXTURES AND SET AT 105" F. VALVE SHALL BE CAPABLE OF SUPPLYING REQUIRED FLOW OF FIXTURE(S) BEING SERVED.
S-1	UNDERMOUNT SINGLE-BASIN SINK, 1.5 GPM	COUNTERTOP	1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE ASSE 1070 POINT OF USE MIXING VALVE UNDER FIXTURE AND SET AT 105" F.
S-2	STAINLESS WALL HUNG SERVICE SINK, 4.0 GPM	27-3/4" TO FLOOD RIM LEVEL	1/2"	1/2"	1/2"	-	-	-	PROVIDE ASSE 1070 POINT OF USE MIXING VALVE UNDER FIXTURE AND SET AT 105" F. REUSE EXISTING DRAIN AND VENT CONNECTIONS.
UB-1	UTILITY BOX, COLD ONLY	18" AFF	1/2"	-	-	-	-	-	PROVIDE WHA-AA FOR CW CONNECTION. MOUNT UTILITY BOX FOR REFRIGERATOR 18" AFF.
WC-1	WALL HUNG WATER CLOSET, MANUAL FLUSH VALVE, 1.28 GPF	15" TO FLOOD RIM LEVEL	1"	-	-	INTEGRAL	4"	2"	FOR ADA COMPLIANT FIXTURES, FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE FIXTURE. COORDINATE INSTALLATION OF FLUSH VALVE WITH GRAB BAR FOR WATER CLOSETS. REFER TO ARCHITECTURAL DRAWINGS.
WC-2	WALL HUNG WATER CLOSET, MANUAL FLUSH VALVE, ADA, 1.28 GPF	17" TO FLOOD RIM LEVEL	1"	-	-	INTEGRAL	4"	2"	FOR ADA COMPLIANT FIXTURES, FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE FIXTURE. COORDINATE INSTALLATION OF FLUSH VALVE WITH GRAB BAR FOR WATER CLOSETS. REFER TO ARCHITECTURAL DRAWINGS.
WH-1	WALL HYDRANT	MATCH EXISTING	3/4"	-	-	-	-	-	-

WATER HEATER SCHEDULE

MARK	DESCRIPTION	MIN. STORAGE (GAL)	E.W.T (F)	L.W.T. (F)	RECOVERY (GPH)	HEATER SIZE		MIN. INPUT	VOLTAGE/PHASE	NOTES
						HEIGHT	WIDTH			
DWH-1	MINI TANK WATER HEATER, ELECTRIC	1.5	56	140	7	14.29"	9.72"	1.4 KW	120/1	-
DWH-2	INSTANTANEOUS WATER HEATER, ELECTRIC	-	56	110	-	9.73"	5.25"	4.1 KW	208/1	UNIT SHALL HAVE MINIMUM TURN ON FLOW OF 0.2 GPM.
DWH-3	INSTANTANEOUS WATER HEATER, ELECTRIC	-	56	110	-	9.73"	5.25"	8.3 KW	208/1	UNIT SHALL HAVE MINIMUM TURN ON FLOW OF 0.2 GPM.
DWH-4	MINI TANK WATER HEATER, ELECTRIC	4	56	140	7	17.31"	12.27"	1.4 KW	120/1	CONNECT TO NEW S-2. LOCATION SHOWN IS DESIRED BUT CAN BE LOCATED INSIDE JANITORS CLOSET IF ROOM IS AVAILABLE.

PIPE ACCESSORY SCHEDULE

MARK	DESCRIPTION	CAPACITY (GPM)	MIN. FLOW (GPM)	COLD E.W.T (F)	HOT E.W.T. (F)	L.W.T. (F)	CIRCULATION E.W.T (F)	MAX. PRESSURE DROP (PSIG)	LINE SIZE (IN)	NOTES
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	52	-	-	-	-	-	10	2-1/2"	-
WM-1	WATER METER	52	1	-	-	-	-	1	2"	SEE CIVIL DRAWINGS FOR LOCATION. COORDINATE METER AND INSTALLATION WITH CITY OF LEXINGTON WATER AND SEWER SERVICE.

PLUMBING SPECIFICATIONS

GENERAL:

PROVIDE AND TEST COMPONENTS IN ACCORDANCE WITH THE VIRGINIA PLUMBING CODE (2021), MANUFACTURERS INSTRUCTIONS, AND APPROVED PRODUCT DATA SUBMITTALS.

PIPING MATERIALS, PLUMBING FIXTURES, AND EQUIPMENT SHALL BEAR WARNING SIGNS, LABELS, STAMPS, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

CLEAN INTERIOR OF PIPING. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

PROTECT PIPING DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.

DRAWINGS INDICATE ONLY A GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.

CONTRACTOR SHALL PROVIDE CUT SHEETS OF ALL EQUIPMENT, FIXTURES, AND PIPING FOR ENGINEER REVIEW. CUT SHEETS SHALL SHOW MARKINGS OF SPECIFIED TESTING AGENCY AND CLEARLY INDICATE THE SELECTED MODEL.

SANITARY WASTE AND VENT PIPING (ABOVE GROUND):

- A. MATERIAL: HUBLESS CAST IRON
- B. PIPE: ASTM A 888, CISPI STD 301
- C. FITTINGS: CISPI STD 310
- D. COUPLINGS: ASTM C 1277

SANITARY WASTE AND VENT PIPING (UNDERGROUND):

- A. MATERIAL: PVC
- B. PIPE: ASTM D 2665
- C. FITTINGS: ASTM D 2665
- D. INSTALL UNDERGROUND PVC PIPING ACCORDING TO ASTM D 2321.

DOMESTIC WATER PIPING:

- ABOVE GROUND
- A. MATERIAL: COPPER TYPE L
- B. PIPE: ASTM B88, CAST- OR WROUGHT- COPPER
- C. FITTINGS: CAST COPPER, SOLDER JOINT ASME B32, LEAD-FREE ALLOYS.
- D. JOINTS: BRAZED OR SOLDERED

BELOW GROUND

- A. MATERIAL: COPPER TYPE K
- B. PIPE: ASTM B88 SOFT WROUGHT-COPPER
- C. FITTINGS: CAST COPPER, SOLDER JOINT ASME B32, LEAD-FREE ALLOYS.
- D. JOINTS: BRAZED

PIPING INSULATION:

- A. COLD WATER PIPE 1 INCH AND SMALLER: FLEXIBLE ELASTOMERIC OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK
- B. COLD WATER PIPE 1-1/4 INCHES AND LARGER: FLEXIBLE ELASTOMERIC OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK
- C. HOT WATER PIPE 4 INCH AND SMALLER: FLEXIBLE ELASTOMERIC - 3/4 INCH THICK OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK.

VALVES:

ALL VALVES SHALL BE RATED FOR THEIR WORKING FLUID/GAS TEMPERATURE AND PRESSURE.

BALL VALVES 2 INCHES AND SMALLER SHALL BE BRASS OR BRONZE WITH THREADED BODIES FOR PIPE AND SOLDER-TYPE CONNECTIONS FOR TUBING.

Y-TYPE STRAINERS SHALL HAVE CAST IRON BODY IN ACCORDANCE WITH ASTM A 126.

VALVE TAGS SHALL BE BRASS AND STAMPED OR ENGRAVED WITH 1/2 INCH LETTERS FOR PIPING SYSTEM ABBREVIATION AND 1/2 INCH NUMBERS FOR PIPE SIZE. TAGS SHALL BE ATTACHED BY BRASSWIRE-LINK CHAIN.

METERS AND GAGES

PRESSURE GAGES SHALL BE DIRECT-MOUNTED, METAL-CASE, DIAL-TYPE WITH GLASS WINDOW, METAL RING, AND GRADE A ACCURACY.

THERMOMETERS SHALL BE METAL-CASE, COMPACT-STYLE, LIQUID-IN-GLASS TYPE.

WATER HEATERS (DWH-1 & DWH-4):

BASIS OF DESIGN: EEMAX MINI TANK SERIES

INSTANTANEOUS WATER HEATERS (DWH-2 & DWH-3)

BASIS OF DESIGN: EEMAX LAVADVANTAGE SERIES

WATER CLOSETS (WC-1 & WC-2)

- A. STANDARD: ASME A112.19.2
- B. TYPE: WALL MOUNTED, BACK OUTLET WITH MANUAL 1.28 GPF FLUSH VALVE
- C. BOWL MATERIAL: VITREOUS CHINA
- D. HEIGHT: 15 TO 17 INCHES
- E. COLOR: WHITE
- F. TOILET SEAT: COMMERCIAL (HEAVY DUTY), WHITE PLASTIC OPEN FRONT

LAVATORIES (L-1):

- A. STANDARD: ASME A112.19.2
- B. TYPE: STAINLESS STEEL
- C. NOMINAL SIZE: RECTANGULAR, 20-1/4 BY 15-11/16 INCHES
- D. HEIGHT: CABINET UNDERMOUNT
- E. FAUCET: BATTERY POWERED ELECTRONIC, POLISHED CHROME

SINKS (S-1):

- A. STANDARD: ASME A112.19.3
- B. TYPE: STAINLESS STEEL
- C. NOMINAL SIZE: 30-1/2" X 18-1/2" X 5-7/8"
- D. HEIGHT: CABINET UNDERMOUNT, ADA
- E. FAUCET: SINGLE HOLE, 3 FUNCTION PULL-DOWN SPRAY HEAD, POLISHED CHROME

SINKS (S-2):

- A. STANDARD: ASME A112.19.3
- B. TYPE: STAINLESS STEEL, FLOOR & WALL MOUNT
- C. NOMINAL SIZE: 25" X 19-1/2"
- D. HEIGHT: 27-3/4"
- E. FAUCET: WALL MOUNT, ROUGH CHROME FINISH, WALL BRACE, VACUUM BREAKER, PAIL HOOK, LEVER HANDLES, AND STOPS.

WATER COOLER (EWC-1):

- A. STANDARD: ASME A112.19.3
- B. TYPE: STAINLESS STEEL, BI-LEVEL, BOTTLE FILLER
- C. NOMINAL SIZE: 36" X 18"
- D. HEIGHT: 32-15/16" - 39-7/16"

UTILITY BOX (UB-1)

- A. STANDARD: ASME A112.18.1
- B. TYPE: PLASTIC WITH WATER HAMMER ARRESTOR
- C. NOMINAL SIZE: APPROX 5.83" WIDE X 6" HIGH
- D. VALVE: 1/4 TURN

WALL HYDRANT (WH-1)

- A. STANDARD: ASSE 1019
- B. TYPE: FREEZELESS, ANTI-SIPHON, EXPOSED HANDWHEEL
- C. SIZE: 3/4" MALE HOSE THREAD

CONNECTIONS:

CONNECT DOMESTIC WATER, WASTE, AND VENT PIPING TO WATER-SERVICE PIPING AS INDICATED, BUT NOT SMALLER THAN REQUIRED BY EQUIPMENT AND FIXTURES.

ESCUTCHEONS AND FLOOR PLATES:

INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS. ESCUTCHEONS SHALL BE ONE-PIECE, STEEL TYPE WITH POLISHED, CHROME-PLATED FINISH AND SETSCREW FASTENER.

INSTALL FLOOR PLATES FOR PIPING PENETRATIONS OF EQUIPMENT-ROOM FLOORS. SPLIT FLOOR PLATES SHALL BE OF CAST BRASS WITH CONCEALED HINGE.

IDENTIFICATION AND LABELS:

PROVIDE AND INSTALL LABELS ON EQUIPMENT. LABELS SHALL BE BLACK WITH WHITE LETTERING. LABELS SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FEET.

PROVIDE AND INSTALL LABELS INDICATING LOCATION AND MARK OF EQUIPMENT LOCATED ABOVE CEILING REQUIRING ROUTINE MAINTENANCE. LABELS SHALL BE WHITE WITH BLACK LETTERING AND SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FEET.

PROVIDE PRE-PRINTED SELF-ADHESIVE PIPE LABELS WITH LABELS INDICATING SERVICE, AND SHOWING FLOW DIRECTION IN ACCORDANCE WITH ASME A13.1.

PIPE SUPPORT:

PROVIDE PIPE SUPPORT IN ACCORDANCE WITH ANS/MSS SP-58.

GENERAL NOTES THIS SHEET:

A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

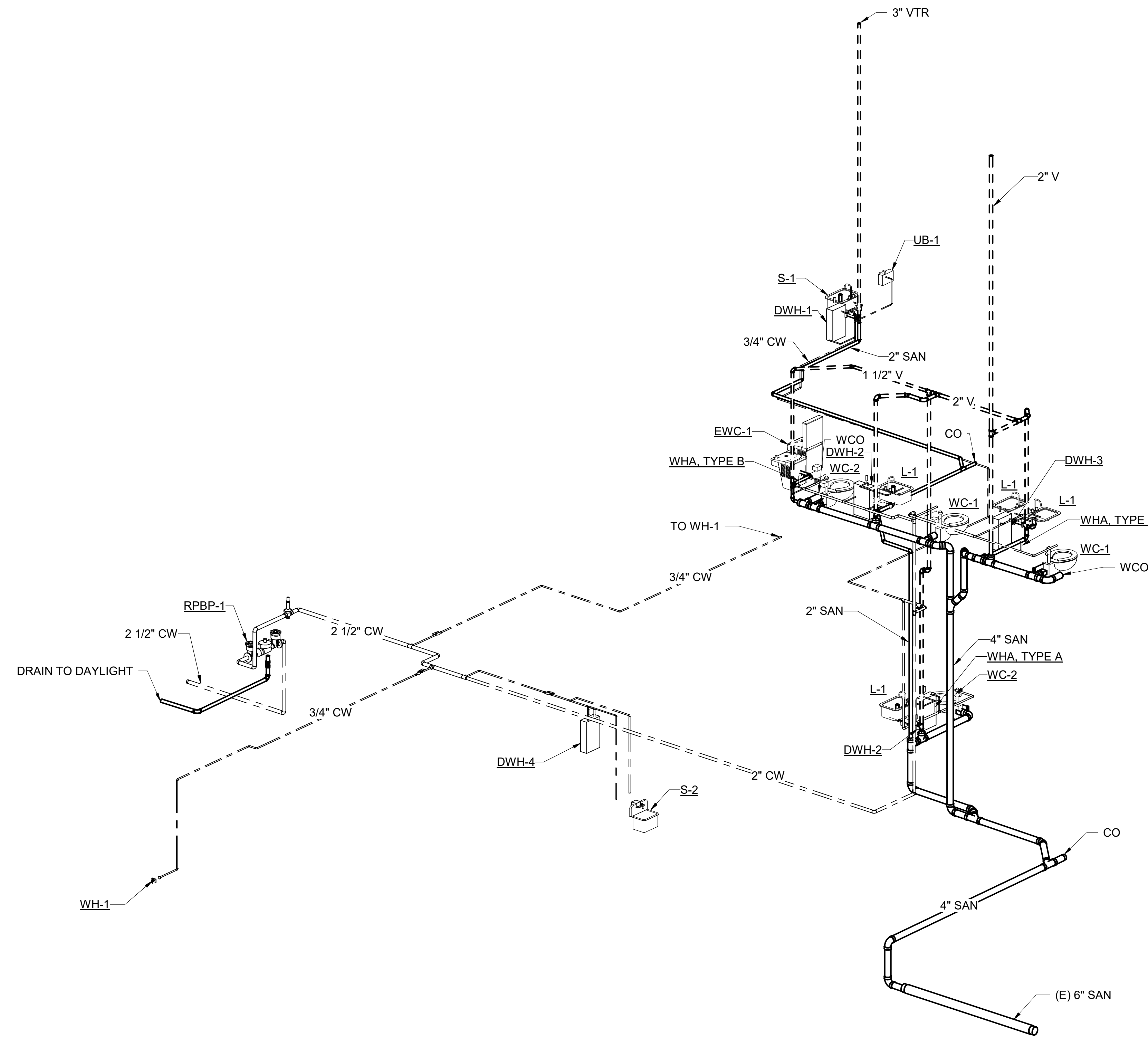
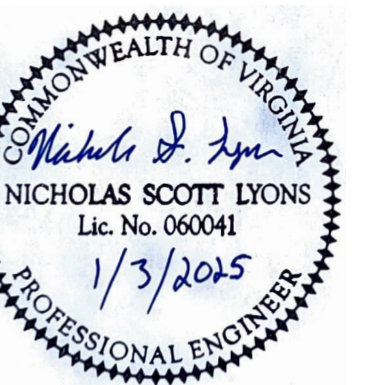
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CONSULTANTS

REGISTRATION



RISER DIAGRAM

ISSUE/REVISION

IR	DATE	DESCRIPTION
1	01/03/2025	FINAL DESIGN SUBMISSION

KEY PLAN

PROJECT NUMBER

60730109

SHEET TITLE

RISER DIAGRAMS

SHEET NUMBER

P-701