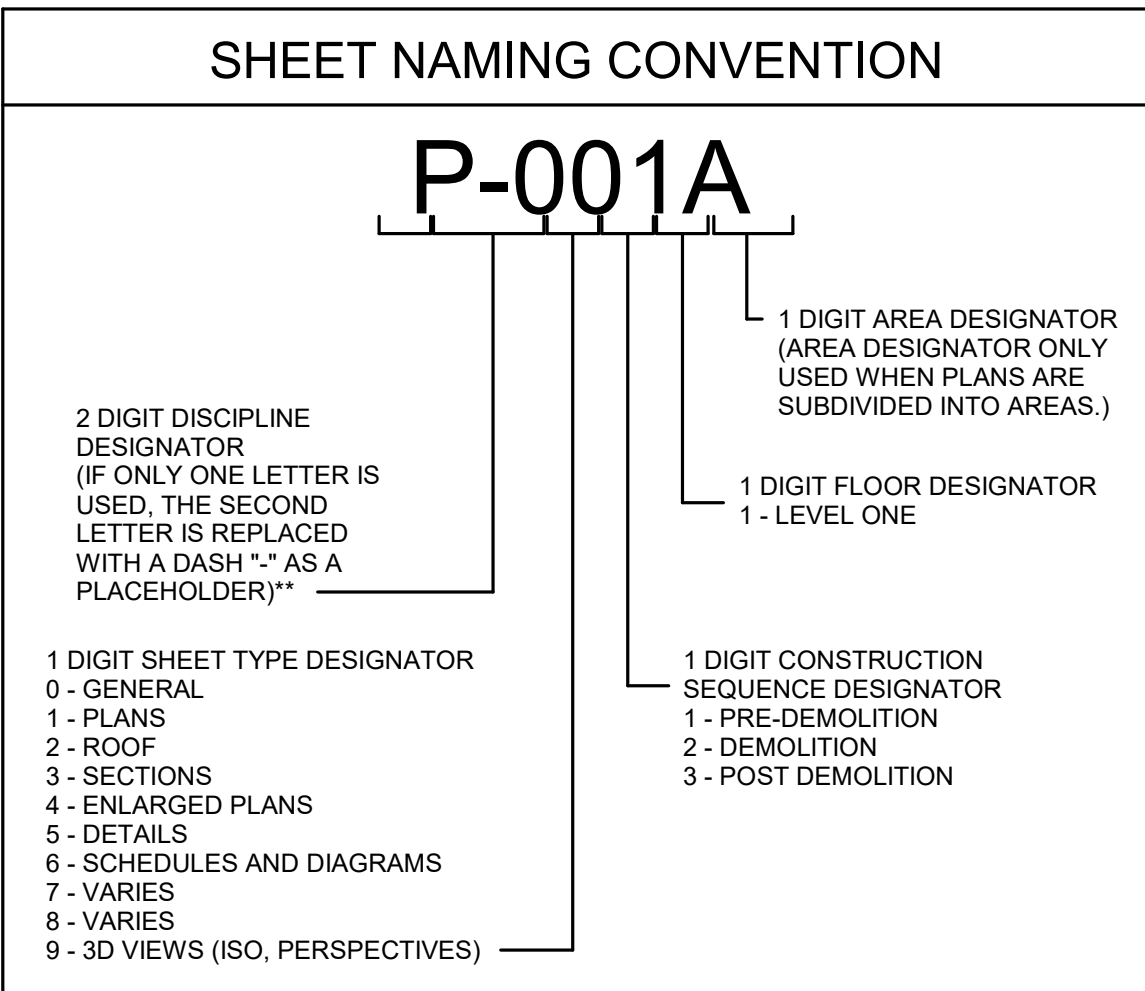


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PLUMBING SHEET NOTES:

- PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 ARKANSAS PLUMBING CODE, AND INTERNATIONAL FUEL GAS CODE.
- SLOPES AND INVERT ELEVATIONS SHALL BE ESTABLISHED BEFORE ANY PIPE IS INSTALLED IN ORDER TO MAINTAIN PROPER SLOPES. ANY DISCREPANCIES SHALL BE REPORTED TO CONTRACTING OFFICER'S OR OWNER'S REPRESENTATIVE. ALL PIPING SHALL BE LOCATED AND DETERMINED WHEN TO BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES.
- PIPING SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- KEEP ALL BURIED PIPING CLEAR OF FOOTINGS. COORDINATE WITH STRUCTURAL.
- ALL WALL CLEANOUTS SHALL BE PROVIDED WITH WALL COVERS AND MOUNTED IN UNOBTRUSIVE LOCATIONS WHILE MAINTAINING ACCESSIBILITY. ALL FLOOR CLEANOUTS SHOWN SHALL BE SET FLUSH WITH FLOOR AREAS OR FINISHED GRADE.
- COORDINATE LOCATION OF PIPING AND DRAINS WITH ALL MECHANICAL AND ELECTRICAL EQUIPMENT. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL, COMMUNICATIONS, OR DATA EQUIPMENT OR PANELS. COMPLY WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF PLUMBING FIXTURES, COMPLIANCE TO ADA CLEARANCES, AND FINISHES.
- PROVIDE REQUIRED WATER, WASTE, AND VENT PIPING, FITTINGS, AND INSULATION, AND MAKE FINAL CONNECTIONS TO EQUIPMENT. PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. PLANS DO NOT SHOW ALL REQUIRED BENDS, OFFSETS, VALVES, AND MISCELLANEOUS FITTINGS FOR A COMPLETE INSTALLATION. ALL PIPING, EQUIPMENT, AND CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS, LOCAL CODES AND ORDINANCES, AND MANUFACTURER'S INSTRUCTIONS.
- WASTE PIPING SHALL BE INSTALLED TO PROVIDE A MINIMUM SLOPE OF 1%. WASTE PIPING 3" AND SMALLER SHALL BE INSTALLED TO PROVIDE A MINIMUM SLOPE OF 2%.
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ROOM NAMES, AND NUMBERS.
- PROVIDE EXTENSION OF EQUIPMENT DRAINS TO FLOOR DRAINS, FLOOR SINKS, AND OPEN SITE DRAINS.
- WHERE POSSIBLE, INSTALL SHUT-OFF VALVES AND EQUIPMENT REQUIRING MAINTENANCE, CLEANING AND ADJUSTMENT ABOVE ACCESSIBLE CEILINGS OR IN SERVICE AREAS SUCH AS JANITOR'S CLOSETS. IN OTHER LOCATIONS, PROVIDE ACCESS PANELS IN INCONSPICUOUS LOCATIONS WITH FINISH TO MATCH ARCHITECTURAL.
- ALL HOSE BIBBS, WALL HYDRANTS, AND VALVES WITH THREADED HOSE CONNECTIONS SHALL BE EQUIPPED WITH VACUUM BREAKER.
- WHERE CONNECTING TO A UTILITY OR SERVICE, VERIFY LOCATION, SIZES, MATERIALS, FLUID BEING HANDLED, AND INVERTS OF ALL EXISTING UTILITIES AND CONFIRM THAT NEW PIPES BEING ROUTED TO EXISTING UTILITIES CAN BE INSTALLED CONFORMING TO CODE AND AS SHOWN. NOTIFY CONTRACTING OFFICER OR ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO PURCHASING ANY MATERIALS OR PERFORMING ANY WORK OR EXTENSION OF CONNECTION, WITH THE EXCEPTION OF EXCAVATION OR OTHER WORK TO PROVIDE ACCESS TO THE CONCEALED UTILITY.
- PROVIDE INSULATION, PIPE IDENTIFICATION, AND OTHER REQUIREMENTS AS LISTED IN SPECIFICATIONS.
- ALL PIPING ABOVE GRADE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
- WATER PIPING ROUTED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
- TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
- PROVIDE WATER HAMMER ARRESTORS SIZED PER PLUMBING DRAINAGE INSTITUTE SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, PRV STATIONS, AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
- PROVIDE A MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER OWNER'S FINAL ACCEPTANCE.
- ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
- ALL WATER CLOSET FLUSH VALVE LEVERS SHALL BE LOCATED ON THE APPROACH SIDE OF THE WATER CLOSET.
- ALL GAS REGULATORS REQUIRING VENTS SHALL BE VENTED TO THE EXTERIOR PER THE INTERNATIONAL GAS CODE REQUIREMENTS. VENT TERMINALS SHALL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE OR SOURCE OF IGNITION.
- ALL VENTS THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
- ALL COLD WATER, HOT WATER, AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH HANDI-LAV GUARD MODELS 102 AND 105 (OR APPROVED EQUAL) INSULATION KITS.
- NOT ALL PLUMBING ABBREVIATIONS SHOWN WILL BE USED FOR THIS PROJECT.

QUALITY ASSURANCE

- A. PLUMBING EQUIPMENT AND INSTALLATION MUST CONFORM TO THE FOLLOWING CODES:
- FIRE CODE - 2021 AR FIRE PREVENTION CODE (AFPC) VOL. 1 WITH APPENDICES A, B, C, D, E, F, G AND 2021 REVISIONS (BASED ON THE 2021 INTERNATIONAL FIRE CODE - IFC)
 - BUILDING CODE - 2021 AR FIRE PREVENTION CODE (AFPC) VOL. 2 WITH APPENDICES C, D, E, F, G, H, I, J AND 2021 REVISIONS (BASED ON THE 2021 INTERNATIONAL BUILDING CODE - IBC)
 - EXISTING BUILDING CODE - 2021 INTERNATIONAL EXISTING BUILDING CODE - IEBG
 - MECHANICAL CODE - 2021 ARKANSAS MECHANICAL CODE WITH APPENDIX A AND 2019 REVISIONS (BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE - IMC)
 - ELECTRICAL CODE - 2020 NATIONAL ELECTRICAL CODE
 - PLUMBING CODE - 2018 ARKANSAS PLUMBING CODE WITH APPENDICES A,B,C,D,E,G,H (BASED ON THE 2018 INTERNATIONAL PLUMBING CODE - IPC)
 - FUEL GAS CODE - 2018 ARKANSAS FUEL GAS CODE WITH APPENDICES A, B, C & D AND 2006 REVISIONS (BASED ON THE 2006 INTERNATIONAL FUEL GAS CODE)
 - ENERGY CODE - 2014 ARKANSAS ENERGY CODE (BASED ON THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), CHAPTER 5 OR ASHRAE 90.1 2007 WITH THE ARKANSAS ENERGY CODE FOR NEW BUILDING CONSTRUCTION SUPPLEMENTS AND AMENDMENTS, 2014)
 - ACCESSIBILITY STANDARD - ICC/ANSI A117.1-2009 AS REFERENCED BY THE 2021 AFPC, VOL. 2, CHAPTER 11

- A. ALL PLUMBING WORK MUST BE IN ACCORDANCE WITH STATE AND LOCAL CODES HAVING JURISDICTION IN THE LOCATION OF THE PROJECT. IN THE EVENT SUCH CODES DO NOT EXIST, THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE MUST BE USED.

OVERALL INSTALLATION

- A. CONNECT ALL PLUMBING DOMESTIC WATER, SANITARY WASTE, AND VENT LINES TO EXISTING SERVICE LINES WITHIN THE BUILDING.
- B. IT IS THE INTENT OF THIS DESIGN TO PROVIDE FOR A COMPLETE PLUMBING SYSTEM. APPURTENANCES SUCH AS PIPE HANGERS, FITTINGS, FLASHINGS, CLAMPS, ETC. THAT ARE SHOWN ON THE DRAWINGS BUT ARE NECESSARY AND REQUIRED TO PROVIDE A COMPLETE PLUMBING SYSTEM MUST BE CONSIDERED TO BE A PART OF THIS SPECIFICATION AND BE PROVIDED AND INSTALLED AS PART OF THIS PROJECT.
- C. ARRANGEMENT OF SYSTEM MUST BE AS DIRECT AS POSSIBLE, AVOIDING ALL UNNECESSARY BENDS AND OFFSETS.
- D. CHANGES IN DIRECTION OF SOIL AND WASTE PIPING MUST BE MADE WITH 1/8" BENDS, "Y" BRANCHES, OR COMBINATION FITTINGS.
- E. EXPOSED PIPING MUST BE INSTALLED STRAIGHT AND TRUE, PARALLEL OR AT RIGHT ANGLES WITH ADJACENT WALLS, FLOORS, OR CEILINGS.
- F. INSTALL GAUGES AND THERMOMETERS IN LOCATIONS WHERE THEY ARE EASILY READ FROM NORMAL OPERATING LEVEL. INSTALL VERTICAL OR AT AN ANGLE UP TO 45 DEGREES OFF VERTICAL.
- G. PROVIDE ROUND FLOOR DRAINS, LOCATED AT LOW POINTS IN FLOOR. INSTALL TRAP PRIMER CONNECTIONS TO ALL FLOOR DRAINS. INSTALL UNIONS ON BOTH SIDES OF TRAP PRIMER AND DISTRIBUTION UNIT TO EASE MAINTENANCE AND REPLACEMENT. INSTALL BARRIER-TYPE TRAP SEAL DEVICE (IN CONFORMANCE WITH ASSE 1072) PER MANUFACTURER'S RECOMMENDATIONS.
- H. INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING TO ALL FIXTURES AND TOILET BATTERIES. SIZE AND INSTALL IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARD WH-201.

PIPING MATERIALS

- A. PIPING MATERIALS MUST BE IN ACCORDANCE WITH STATE AND LOCAL CODES HAVING JURISDICTION IN THE LOCATION OF THE PROJECT. IN THE EVENT SUCH CODES DO NOT EXIST, THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE MUST BE USED.
- B. DELIVER PIPES AND TUBES WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT PIPE END DAMAGE AND TO PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE.
- C. EXPOSED PIPE AND FITTINGS AT HANDICAP ACCESSIBLE SINKS AND LAVATORIES MUST BE INSULATED WITH PREFABRICATED KITS.
- D. SANITARY SEWER:
- PIPING MUST BE PVC PIPE ABOVE AND BELOW SLAB ON GRADE.
 - CLEANOUTS MUST BE PROVIDED AT THE END OF ALL RESTROOM GROUPS. CLEANOUTS MUST BE READILY ACCESSIBLE AND LOCATED IN THE MEN'S RESTROOMS WHERE POSSIBLE.
 - CLEANOUTS MUST BE PROVIDED WITHIN THE SYSTEM RUN AT INTERVALS NOT TO EXCEED 75 FEET MAXIMUM TO THE FIRST MANHOLE.
 - IN RENOVATION PROJECTS, CAMERA ALL BELOW SLAB SANITARY PIPING THAT WILL BE RE-USED TO DETERMINE CONDITION OF PIPING AND SUITABILITY FOR THE NEW PLUMBING DESIGN.
- E. WATER PIPING:
- ALL PIPING MUST BE COPPER PIPE WITH SOLDER OR PRESS FIT JOINTS AND COPPER FITTINGS. PIPING MUST BE TYPE L OR TYPE M COPPER ABOVE GRADE. PIPING MUST BE TYPE K COPPER BELOW SLAB ON GRADE.
 - PROVIDE BALL VALVES AT ALL BRANCH TAPS FOR ISOLATION. GATE VALVES ARE NOT PERMISSIBLE.
 - ISOLATION VALVES MUST BE PROVIDED FOR ALL FIXTURES.

GENERAL PLUMBING (CONT.)

- F. PRESSURE REDUCING VALVES: ZURN 500XL OR APPROVED EQUAL. SIZES 2" AND LARGER MUST BE FLANGED AND EQUIPPED WITH REGULATED LOW FLOW BYPASS.
- G. PROVIDE AMPLE ACCESS FOR MAINTENANCE, SERVICE, AND ADJUSTMENT TO ALL EQUIPMENT, PLUMBING PIPING, AND ISOLATION VALVES.
- H. PROVIDE UNIONS IN PIPING TO ALL EQUIPMENT AND SPECIALTIES TO PERMIT REMOVAL FOR SERVICE; UNIONS MUST BE METAL SEAT TYPE. PROVIDE INSULATING UNIONS WHERE NEEDED. DISSIMILAR METALS, I.E. COPPER AND STEEL, MUST NOT BE INSTALLED TO ALLOW DIRECT CONTACT BETWEEN THE METALS. PROVIDE DIELECTRIC CONNECTIONS.

PIPING INSULATION

- A. DOMESTIC WATER:
- DOMESTIC HOT, TEMPERED, AND CIRCULATING PIPING: 1.5-INCH THICK, RIGID GLASS FIBER WITH FACTORY ASJ JACKET.
 - DOMESTIC COLD PIPING: 1-INCH THICK, RIGID GLASS FIBER WITH FACTORY ASJ JACKET.
- B. WASTE PIPING HANDLING HVAC CONDENSATE: 1-INCH THICK PHENOLIC FOAM WITH SARAN VAPOR JACKET. INSULATE FITTINGS WITH PIPE INSULATION MITERED TO FIT.
- C. INSULATION EXPOSED TO THE EXTERIOR OR UNCONDITIONED SPACES MUST BE WRAPPED WITH ALUMINUM JACKET.

HANGERS AND SUPPORTS

- A. PROVIDE MSS SP-58, TYPES 1-58, FACTORY-FABRICATED COMPONENTS.
- B. PROVIDE HANGER WITH INSULATION-INSERT PAD OR CUSHION (MSS SP-58, TYPE 40) TO SUPPORT BEARING OF PIPE. PAD OR CUSHION MUST COVER MINIMUM LOWER 180 DEGREES OF PIPE CIRCUMFERENCE. PAD OR CUSHION MUST EXTEND MINIMUM 2 INCHES BEYOND SHEET METAL HANGER HORIZONTALLY.
- C. PROVIDE CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF MATERIAL TO MATCH THE PIPE MATERIAL.
- D. PROVIDE SUPPORTS, CLAMPS, AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM THE BUILDING STRUCTURE.

ESCUTCHEONS

- A. PROVIDE ESCUTCHEONS ON EXPOSED SIDE OF PIPING PENETRATIONS THROUGH WALLS, CEILINGS, AND FINISHED FLOORS.
- B. ESCUTCHEONS MUST BE ONE-PIECE, STEEL TYPE WITH POLISHED, CHROME-PLATED FINISH AND SETSCREW FASTENER.
- C. ESCUTCHEONS MUST HAVE INNER DIAMETER TO CLOSELY FIT AROUND THE ASSOCIATED PIPE. ESCUTCHEONS MUST HAVE OUTER DIAMETER THAT COMPLETELY COVERS THE ASSOCIATED OPENING.
- D. REPLACE BROKEN OR DAMAGED ESCUTCHEONS WITH NEW MATERIALS PRIOR TO OWNER'S FINAL ACCEPTANCE.

IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

- A. IDENTIFY EQUIPMENT SUCH AS PUMPS, WATER HEATERS, TANKS, COMPRESSORS, AND ENCLOSED MOTOR CONTROLLERS WITH PLASTIC NAMEPLATES.
- B. WHERE EQUIPMENT IS LOCATED ABOVE CEILINGS: APPLY NAMEPLATE TO CEILING GRID FOR EQUIPMENT LOCATED ABOVE ACCESSIBLE CEILINGS OR TO ACCESS PANEL FOR NON-ACCESSIBLE CEILINGS.
- C. IDENTIFY CONTROL PANELS AND MAJOR CONTROL COMPONENTS OUTSIDE PANELS WITH PLASTIC NAMEPLATES.
- D. INSTALL PIPE MARKERS ON ALL PIPING SYSTEMS AT THE FOLLOWING LOCATIONS:
- MECHANICAL EQUIPMENT ROOMS:
 - WITHIN 18 INCHES OF EACH VALVE.
 - WITHIN 36 INCHES OF EACH 90 ELBOW, TEE, CONNECTION TO EQUIPMENT OR VESSEL AND POINT WHERE PIPE EXITS ROOM.
 - AT NOT OVER 20 FEET INTERVALS ALONG ALL EXPOSED PIPING.
 - ABOVE SUSPENDED CEILINGS:
 - WITHIN 18 INCHES OF EACH VALVE OR VALVE ASSEMBLY.
 - AT TEES, IDENTIFY BOTH MAIN AND BRANCH WITHIN 36 INCHES OF TEE.
 - WITHIN 36 INCHES OF EACH 90 ELBOW.
 - AT NOT OVER 15 FEET INTERVALS ALONG ALL CONCEALED PIPING.
 - PIPING EXPOSED IN ROOMS OTHER THAN MECHANICAL EQUIPMENT AREAS:
 - OMIT IDENTIFICATION ON PIPING, 1-INCH EXTERIOR DIAMETER OR SMALLER (INSULATED OR UNINSULATED) OR EXPOSED AT CONNECTIONS TO EQUIPMENT OR PLUMBING FIXTURES.
 - WITH THE ABOVE EXCEPTION, IDENTIFY AT NOT LESS THAN ONE POINT EACH PIPING RUN VISIBLE IN EACH ROOM, WITH IDENTIFICATION ON NOT OVER 20 FEET INTERVALS.

PLUMBING SYSTEM TEST

- A. FURNISH ALL MATERIAL AND LABOR REQUIRED FOR TESTING PLUMBING SYSTEMS.
- B. NO PIPE IS TO BE COVERED OR CONCEALED UNTIL PLUMBING SYSTEMS HAVE BEEN TESTED, ALL LEAKS STOPPED, RETESTED, AND APPROVED BY THE CONTRACTING OFFICER OR OWNER.
- C. TEST THE ENTIRETY OF THE BUILDING SANITARY SEWER SYSTEM OR IN SECTIONS WITH WATER AT NOT LESS THAN 10 FEET HEAD, OR APPROVED TEST PRESSURE FOR MINIMUM OF ONE HOUR. TEST MUST BE CONDUCTED AND ANY LEAKS FOUND MUST BE REPAIRED PRIOR TO BACKFILLING AND CONCEALING.
- D. TEST THE ENTIRETY OF THE BUILDING DOMESTIC WATER SYSTEM OR IN SECTIONS AND SUBJECTED TO A 150 PSIG HYDROSTATIC PRESSURE FOR MINIMUM OF ONE HOUR WITHOUT LEAKS OR LOSS IN PRESSURE. TEST MUST BE CONDUCTED AND ANY LEAKS FOUND MUST BE REPAIRED PRIOR TO BACKFILLING AND CONCEALING.

PLUMBING LEGEND:

- PIPE TURNED DOWN
- PIPE TURNED UP
- — — PIPING BELOW FLOOR OR GRADE
- — — SANITARY WASTE PIPING
- VENT PIPING
- — — POTABLE / DOMESTIC COLD WATER PIPING
- - - - POTABLE / DOMESTIC HOT WATER SUPPLY PIPING
- BALL VALVE
- N— CHECK VALVE
- F— STRAINER
- |— UNION

MISCELLANEOUS LEGEND:

- KEYNOTE
- TP CONNECT TO EXISTING

EMERGENCY PLUMBING FIXTURES:

GENERAL

- A. COMPLY WITH ANSI/ISEA Z358.1 FOR EMERGENCY PLUMBING FIXTURES INCLUDING THIRD-PARTY CERTIFICATIONS OF FIXTURES.
- B. COMPLY WITH ASSE 1071 FOR TEMPERATURE-ACTUATED MIXING VALVES FOR PLUMBED EMERGENCY FIXTURES.
- C. COMPLY WITH ASME A112.18.1/CSA B125.1 FOR WATER SUPPLY FITTINGS.
- D. COMPLY WITH ASME A112.18.2/CSA B125.2 FOR PLUMBING WASTE FITTINGS.
- E. COMPLY WITH NSF 61 AND NSF 372 FOR FIXTURE MATERIALS THAT WILL BE IN CONTACT WITH POTABLE WATER.
- F. ANY ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES MUST BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- G. TEST EACH EMERGENCY FIXTURE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND THE ASSOCIATED REFERENCE STANDARDS. IF AN EMERGENCY FIXTURE FAILS ANY OF THE REQUIRED TESTS, EMERGENCY FIXTURE MUST BE CONSIDERED DEFECTIVE. DEFECTIVE EMERGENCY FIXTURES MUST BE REPAIRED OR REPLACED. EMERGENCY FIXTURE MUST BE RETESTED UNTIL IT PASSES ALL THE REQUIRED TESTS.
- H. PREPARE TEST AND INSPECTION REPORTS FOR PROJECT RECORD.

COMBINATION UNITS:

- A. PROVIDE FREE-STANDING EMERGENCY SHOWER FIXTURE.
- CAPACITY:
 - SHOWER: NOT LESS THAN 20 GPM FOR AT LEAST 15 MINUTES.
 - EYE/FACE WASH: NOT LESS THAN 3.0 GPM FOR AT LEAST 15 MINUTES.
 - SUPPLY PIPING: 1-1/4 INCH CONNECTION WITH FLOW REGULATOR AND STAY-OPEN CONTROL VALVE. INDIVIDUAL CONNECTIONS TO EACH COMPONENT AS REQUIRED.
 - CONTROL VALVE ACTUATOR:
 - SHOWER: PULL ROD.
 - EYE WASH: PADDLE.
 - SHOWER HEAD: MINIMUM 8 INCH DIAMETER.
 - SPRAY HEAD ASSEMBLY: TWO RECEPTOR-MOUNTED SPRAY HEADS.
 - MATERIAL: STAINLESS STEEL WITH CORROSION-RESISTANT COATING.
- B. ACCESSORIES MUST INCLUDE:
- ELECTRIC ALARM WITH FLASHING LIGHT AND AUDIBLE HORN.
 - THERMOSTATIC MIXING VALVE ASSEMBLY INCLUDING BALL VALVE SHUTOFFS, OUTLET TEMPERATURE GAUGE, AND MANUFACTURER'S REQUIRED APPURTENANCES. OUTLET TEMPERATURE MUST BE INITIALLY SET TO 85°F (ADJUSTABLE).
 - FLOW SWITCH: SINGLE POLE.
- C. PROVIDE ANSI-COMPLIANT IDENTIFICATION SIGN.
- D. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

PLUMBING ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECTURE, ARCHITECTURAL
BFP	BACKFLOW PREVENTER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BLDG	BUILDING
BOD	BASIS OF DESIGN
BV	BALL VALVE
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CO	CLEANOUT
CV	CHECK VALVE
CW	COLD WATER (POTABLE / DOMESTIC)
DGS	DEGREES
DN	DOWN
DWGS	DRAWINGS
E	EXISTING
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FH	FUME HOOD
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
H/C	HANDICAP
HW	HOT WATER (POTABLE / DOMESTIC)
I.E.	INVERT ELEVATION
IBC	INTERNATIONAL BUILDING CODE
IFGC	INTERNATIONAL FUEL GAS CODE
IPC	INTERNATIONAL PLUMBING CODE
KW	KILOWATT
LV	LAVATORY
MFG	MANUFACTURER
N	NEW
NFWH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
P, PLBG	PLUMBING
PDI	PLUMBING DRAINAGE INSTITUTE
PRV	PRESSURE REDUCING / REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
RPZ	REDUCED PRESSURE ZONE
SAN, S	SANITARY PIPING
SK	SINK
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TP	TRAP PRIMER
TYP	TYPICAL
U/G	UNDERGROUND
V	VENT PIPING
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
W/O	WITHOUT
W/	WITH
YCO	YARD CLEANOUT

EOR/AOR SEAL

COA SEAL

CLIENT INFORMATION

Vantive

PROJECT NAME

**VANTIVE
TUBING
CLEAN ROOM**

1900 AR-201
MOUNTAIN HOME,
ARKANSAS 72653

DRAWING ISSUE

04/24/2026	10/10/2025	DATE
ISSUED FOR BID, EQ, BID	ISSUED FOR ESTIMATE	DESCRIPTION
B	A	MARK

DESIGNED BY: JC
DRAWN BY: JS
CHECKED BY: JC
SUBMITTED BY: CL
DATE: 04/24/2026
PROJECT #: 1241011

SHEET TITLE

**PLUMBING
GENERAL NOTES
& SYMBOLS**

SHEET NUMBER

P-001

ORIGINAL SHEET SIZE:
36" X 42"

ISSUED FOR BID