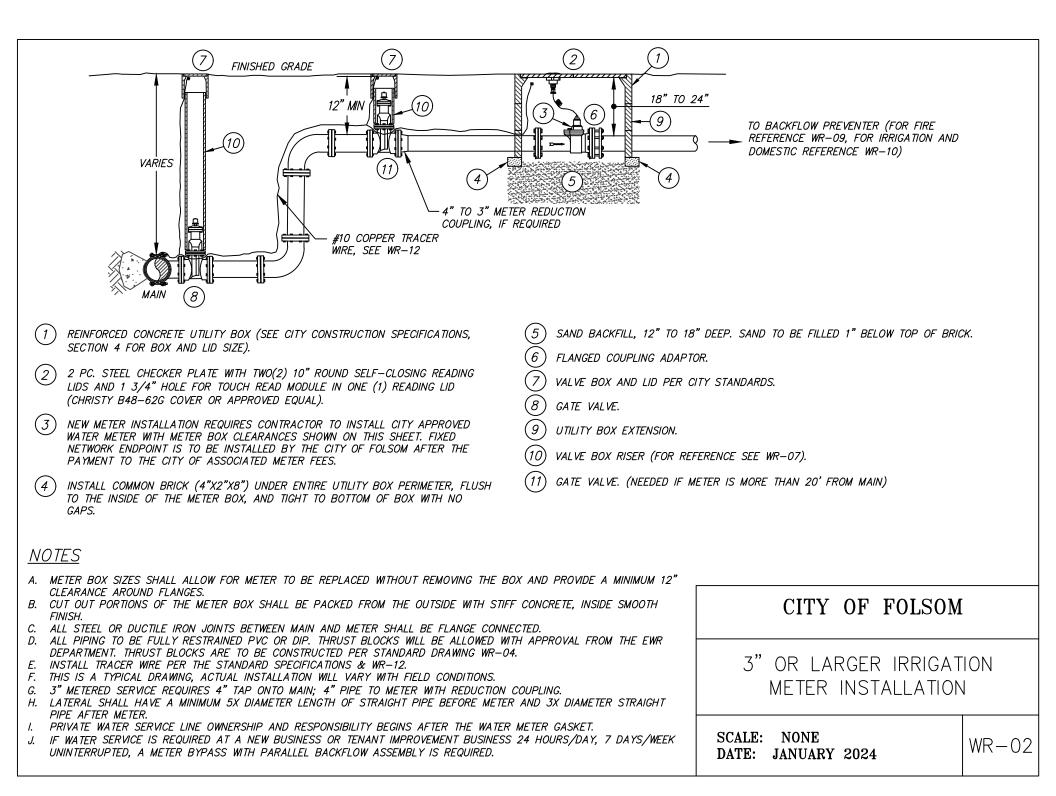
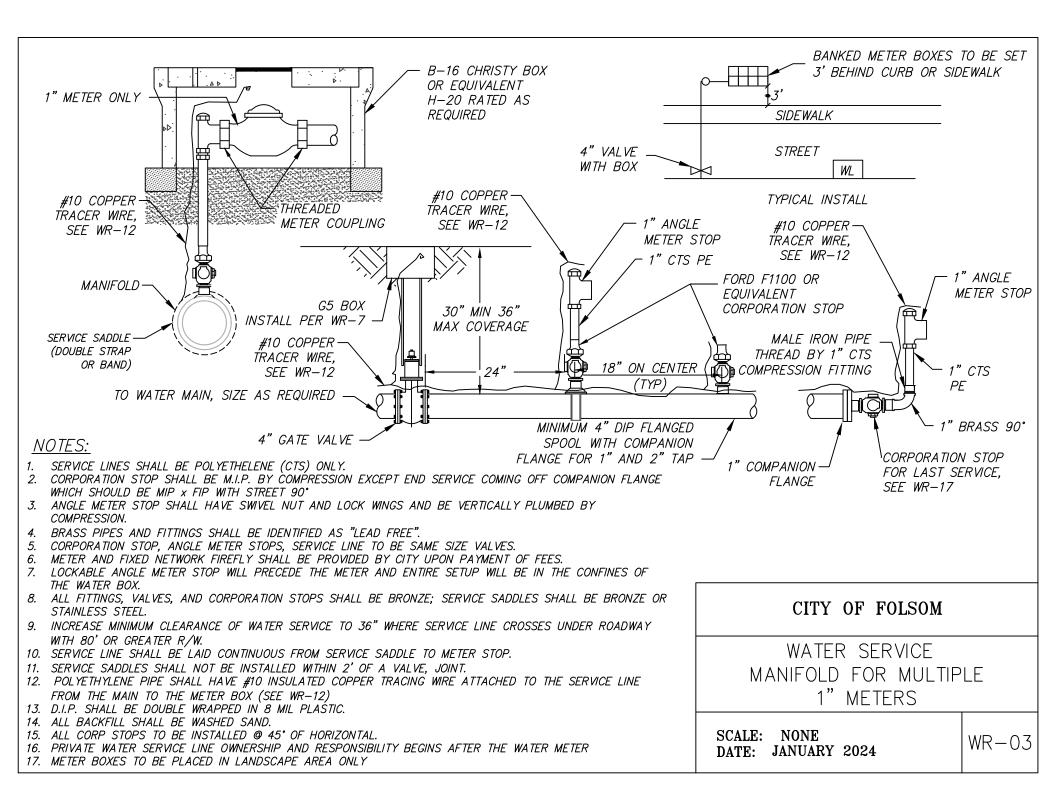


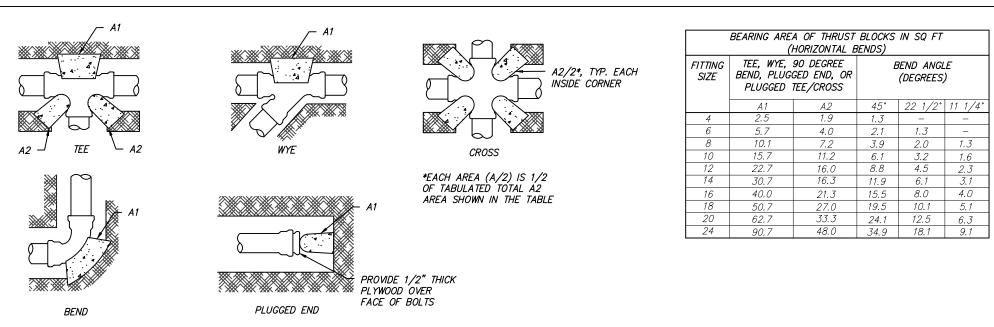
<u>NOTES:</u>

- 1. ALL METERS (RESIDENTIAL AND IRRIGATION) SHALL BE PURCHASED FROM THE CITY OF FOLSOM AND INSTALLED BY THE IMPROVEMENT PLAN CONTRACTOR.
- 2. WATER METERS WILL HAVE FACTORY POTTED NICOR WIRES. THE POTTED NICOR WIRES SHALL HAVE A PROTECTIVE END CAP AND SHALL ONLY BE REMOVED BY THE CITY OF FOLSOM.
- 3. IF THE NICOR WIRE END CAP IS NOT IN PLACE, THE CITY RESERVES THE RIGHT TO REJECT THE METER AND REQUIRE A NEW METER TO BE PURCHASED AND INSTALLED AT THE CONTRACTOR'S EXPENSE.
- 4. METER ENDS SHALL BE SEALED TO PREVENT ENTRY OF FOREIGN MATTER INTO THE METER BODY AND THE METER SHALL BE PROTECTED AND ENCLOSED IN THE BO OR CRATE TO PROTECT THE METER ASSEMBLIES. IF THE WATER METER HAS NOT BEEN MAINTAINED IN A CLOSED AND SEALED SYSTEM OR IF THERE IS VISIBLE OPERATIONAL DAMAGE, THE CONTRACTOR WILL BE REQUIRED TO PURCHASE AND INSTALL A NEW METER.
- 5. ALL METERS WILL BE SET TO ZERO FROM THE FACTORY.
- 6. THE IMPROVEMENT PLAN CONTRACTOR SHALL PROVIDE AN ELECTRONIC SUBMITTAL (IN EXCEL) TO THE CITY. THE METER ID AND REGISTER ID NEEDS TO BE LISTED WITH THE SPECIFIC LOT THAT IS ASSIGNED TO WITHIN EACH VILLAGE PRIOR TO IMPROVEMENT ACCEPTANCE.
- 7. WHEN THE BUILDER PULLS THE BUILDING PERMIT, THE LOT NUMBER, ADDRESS AND THE ADDRESS SPECIFIC METER ID AND REGISTER ID SHALL BE PROVIDED TO THE CITY AND SHALL MATCH THE APPROVED SUBMITTAL PROVIDED AT IMPROVEMENT CONSTRUCTION PHASE.
- 8. IF THERE IS A MISSING METER OR THE METER NUMBERS DO NOT MATCH THE SUBMITTAL DESCRIBED IN NOTE 7, THE BUILDER SHALL BE REQUIRED TO PAY THE CITY TO FURNISH AND INSTALL A NEW METER.
- 9. WHEN THE HOME BUILDER PULLS THE BUILDING PERMIT, A METERED ACCOUNT WILL BE SET UP FOR UTILITY SERVICE AND SERVICE CHARGES WILL BEGIN. THE BUILDER SHALL BE RESPONSIBLE FOR WATER BASE CHARGE AND ALL WATER CONSUMPTION UP TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 10. A METER PERMIT SHALL BE OBTAINED PRIOR TO OR IN CONJUNCTION WITH THE BUILDING PERMIT. THE WATER METER PERMIT FEE HAS BEEN REVISED TO EXCLUDE THE METER COST.
- 11. THE BUILDER SHALL E-MAIL THE CITY AT METERINSTALLS@FOLSOM.CA.US WITH A PDF SHOWING THAT THE BUILDING PERMIT/WATER PERMIT FEES HAVE BEEN PAID AND THAT THE WATER METER HAS BEEN INSTALLED TO INITIATE FIXED NETWORK ENDPOINT INSTALLATION.
- 12. THE BUILDER SHALL GIVE THE CITY 10 BUSINESS DAYS NOTICE TO INSTALL THE FIXED NETWORK ENDPOINT, AT METERINSTALLS@FOLSOM.CA.US
- 13. AT THIS TIME A FIXED NETWORK ENDPOINT WILL BE INSTALLED BY THE CITY AND A FINAL WATER CONSUMPTION READ WILL BE OBTAINED.
- 14. PAYMENT OF THE WATER BASE CHARGES AND CONSUMPTION SHALL BE PAID BY THE BUILDER PRECEDENT TO RECEIVING A CERTIFICATE OF OCCUPANCY.
- 15. THE NEW METER PERMIT FEE WILL INCLUDE THE COST FOR THE FIXED NETWORK ENDPOINT AND INSTALLATION, PER FMC 13.24.050. THESE COSTS MAY CHANGE IN THE FUTURE BASED ON MATERIAL OR INSTALLATION COSTS. (THESE COSTS EXCLUDE THE COST OF THE WATER METER.)
- 16. METERS ARE ONLY TO BE LOCATED IN DRIVEWAYS WITH EWR APPROVAL. IF A METER IS APPROVED TO BE LOCATED IN A DRIVEWAY, METER LID SHALL BE OLD CASTLE PRECAST MODEL B16–61GP OR APPROVED EQUAL.

CITY OF FOLSOM			
METERED WATER SERVICE 1" THRU 2" NOTES			
SCALE: NONE DATE: JANUARY 2024	WR-01B		







THRUST BLOCK NOTES

- REGARDLESS OF PLUGS, THROUGH RUNS, ETC., ALL TEES AND CROSSES ARE TO BE RESTRAINED AS 1. SHOWN IN THIS DETAIL.
- THIS DETAIL TO BE USED FOR ALL CUT-IN TEES, CROSSES, ETC.
- THIS DETAIL SHALL BE USED WHERE RESTRAINT LENGTH REQUIRED FOR MECHANICAL JOINT RESTRAINT CANNOT BE ACHIEVED DUE TO INSUFFICIENT PIPE LENGTH.
- THRUST BLOCKS ARE TO BE CONSTRUCTED OF CLASS B CONCRETE. CONCRETE IS TO BE CLEAR OF JOINT AND JOINT ACCESSORIES.
- CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH OR ENGINEERED SOIL AND 5. HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- 6. REQUIRED VOLUMES OR BEARING AREAS AT FITTINGS SHALL BE AS INDICATED, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) FOR SPECIFIC SITE CONDITIONS.
- 7. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON TEST PRESSURE OF 150 PSIG AND THE WEIGHT OF CONCRETE = 4050 LBS/CU YD. TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESS. /150) x (TABLE VALUE).
- 8. BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 1,500 LBS/SQ FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) x (1,500/SOIL BEARING STRESS) x (TABLE VALUE).
- 9. THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
- 10. BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ FT.
- 11. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING DETAILS. SEE DRAWINGS FOR VOLUMES SHOWN TO LEFT OF SOLID LINE IN TABLE.
- 12. THRUST BLOCKS MAY BE REQUIRED IN CASES NOT SHOWN ON THIS DETAIL.
- 13. WHEN INLINE VALVES ARE INSTALLED TO EXISTING PIPING, THRUST RESTRAINT ON EACH SIDE OF THE VALVE MUST BE DETAILED AND CALCULATED BY THE DESIGNER.
- 14. WHEN HOT-TAPS ARE INSTALLED ON EXISTING PIPING, THRUST RESTRAINT MUST BE CALCULATED AND DETAILED BY THE DESIGNER.

VOLUME OF THRUST BLOCK GALVANIZED RODS OVER IN CUBIC YARDS (VERTICAL BENDS) FITTING AND EMBEDDED IN CONCRETE (SEE TABLE BEND ANGLE (DEGREES) FITTING SIZE 45° 22 1/2° 11 1/4° 1.1 4 0.4 0.2 6 2.7 1.0 0.4 8 4.0 1.5 0.6 10 6.0 2.3 0.9 12 8.5 3.2 1.3 14 11.5 4.3 1.8 16 14.8 5.6 2.3

FITTING SIZE	ROD SIZE	EMBEDMENT
12" & LESS	#6	30"
14" - 16"	#8	36"

CITY OF FOLSOM

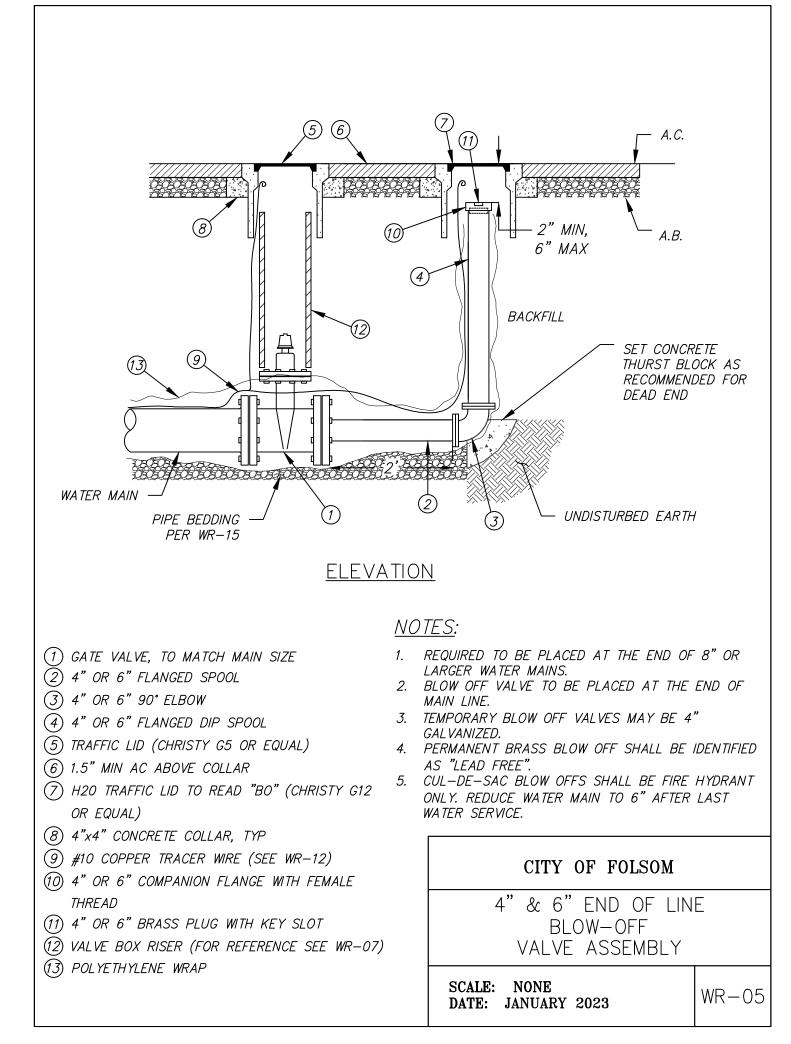
THRUST BLOCK BEARING AREA

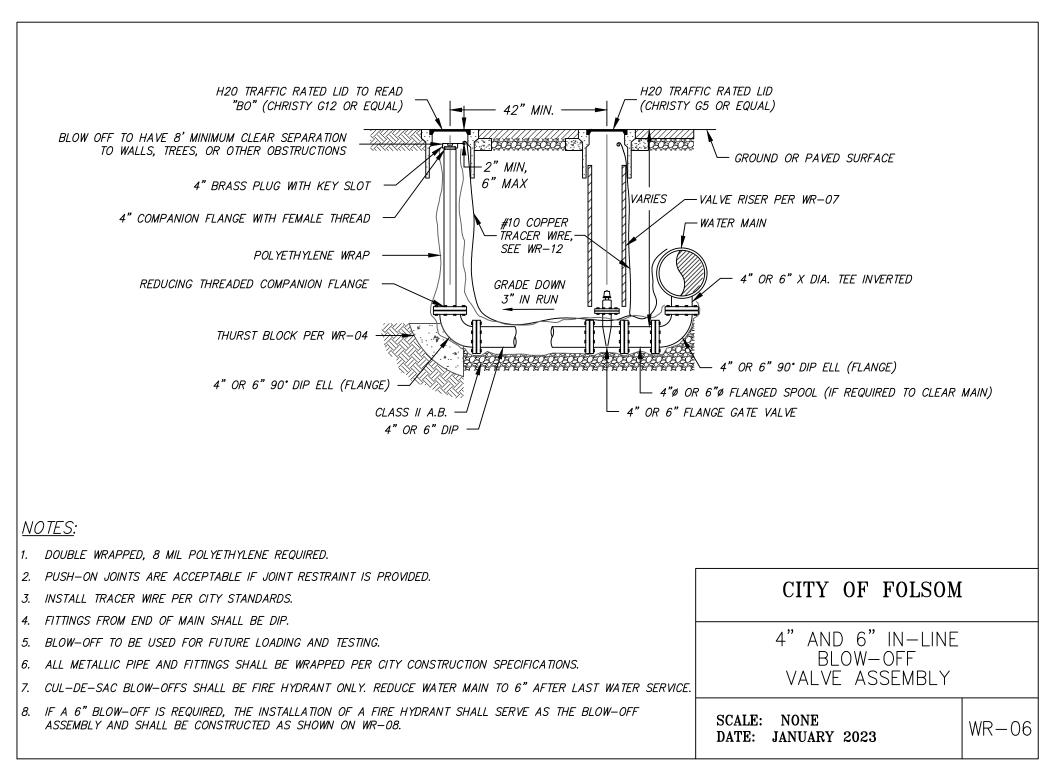
SCALE: NONE DATE: JANUARY 2024

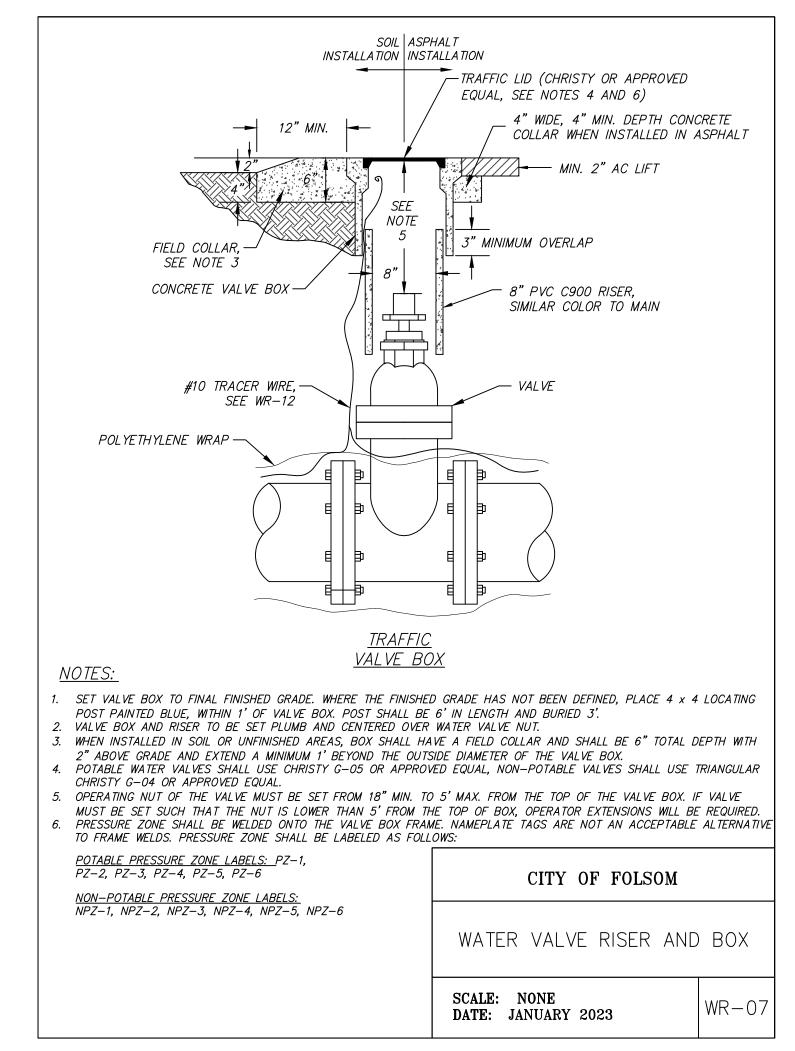
FOR SIZES)

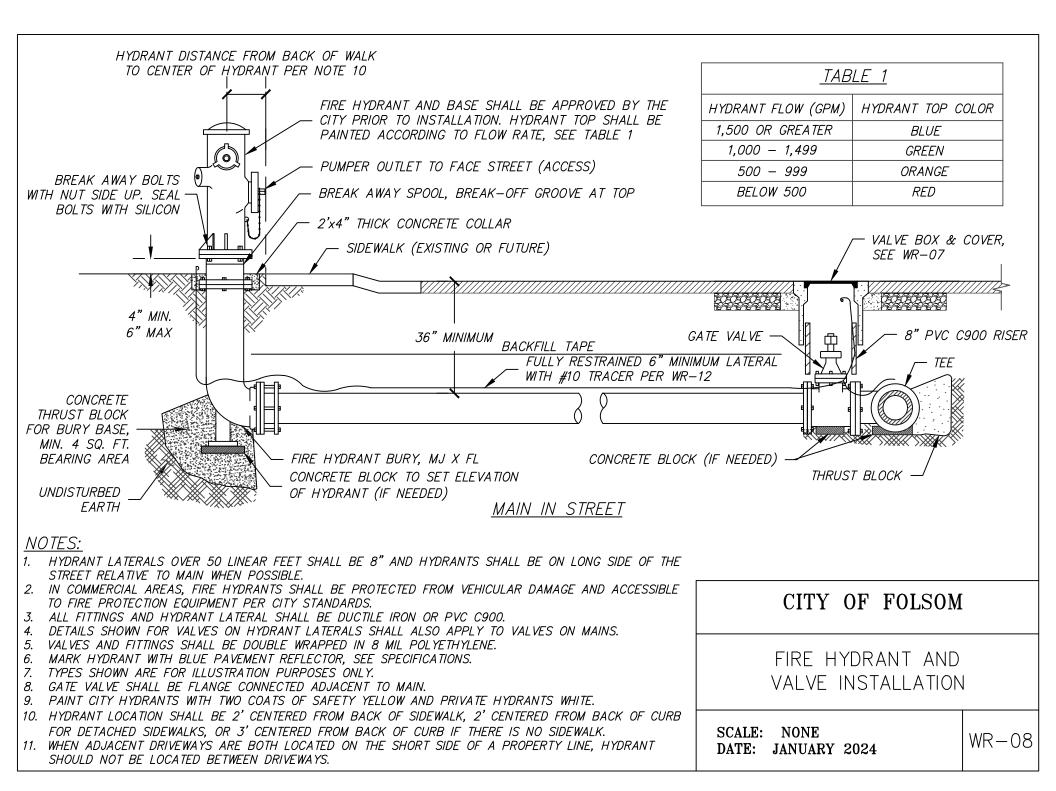
PROFILE

WR-04

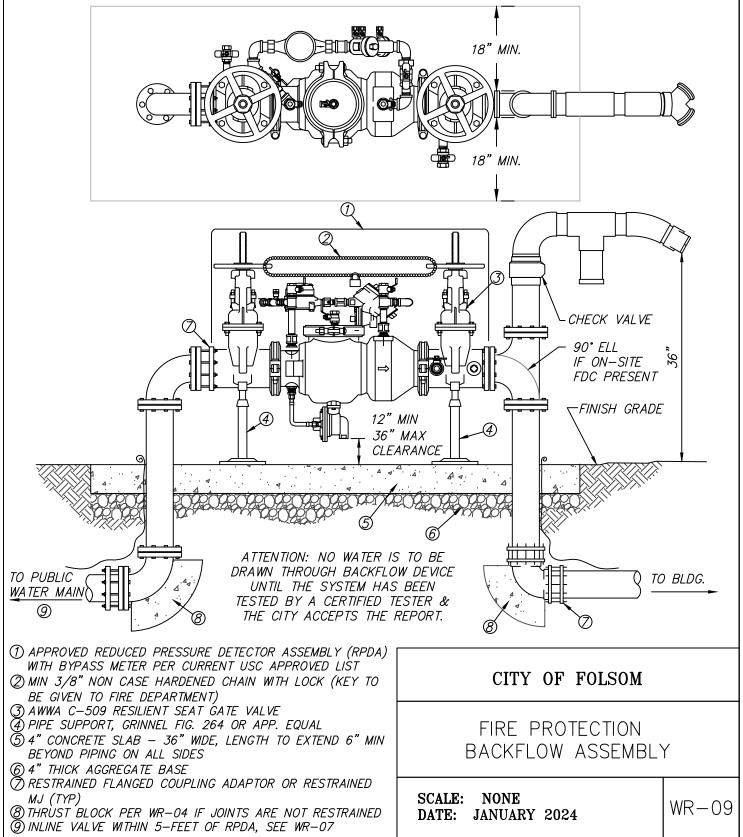




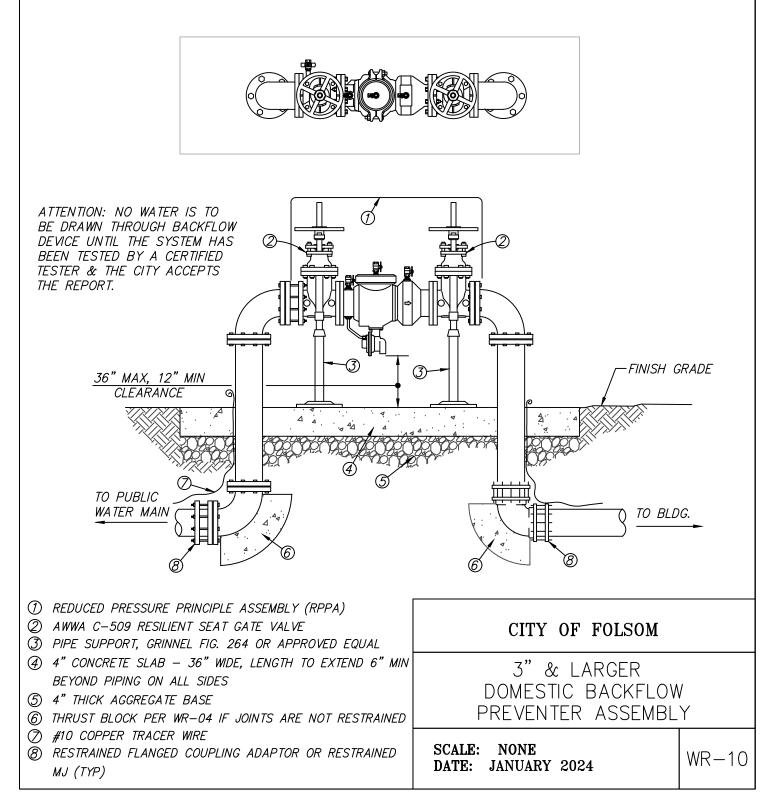


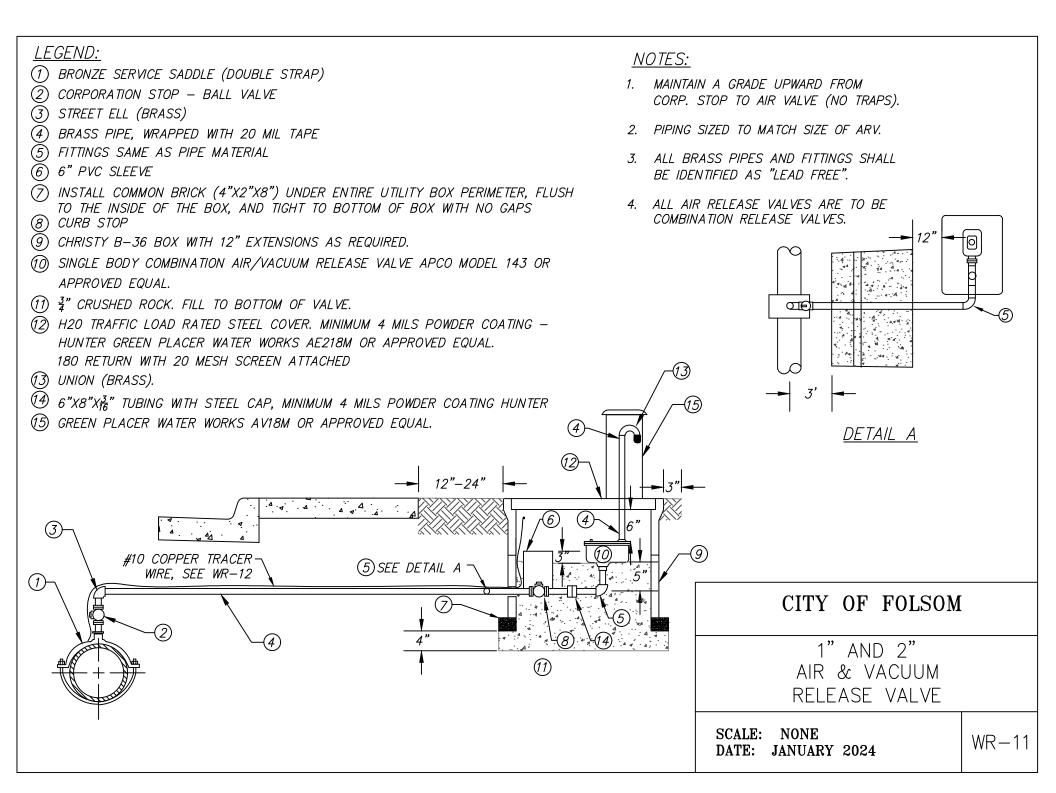


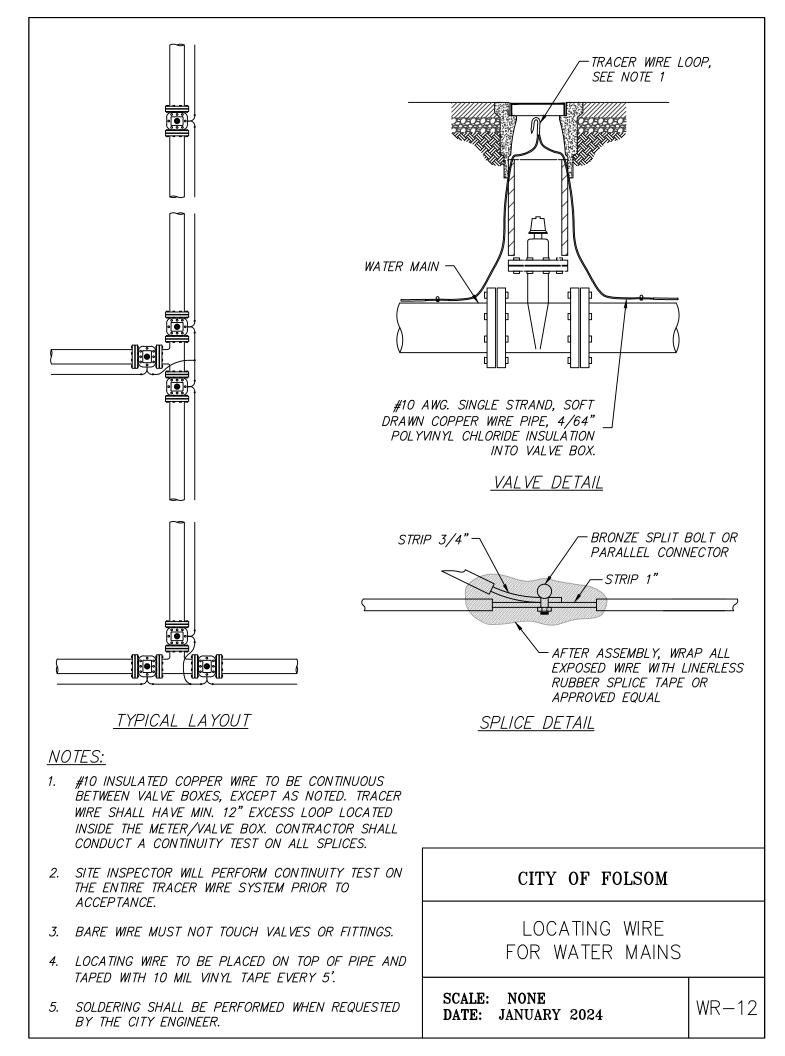
- 1. REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE USC APPROVED AND VERIFIED BY THE CITY.
- 2. ALL MATERIALS SHALL MEET APPLICABLE SECTIONS OF THE STANDARD SPECFICATIONS.
- 3. REDUCED PRESSURE PRINCIPLE ASSEMBLY SHOWN MAY NOT REFLECT MANUFACTERS' CONFIGURATION.
- 4. PIPE PENETRATION SHALL BE FILLED WITH NON-SHRINK GROUT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI. OPENING SHALL BE MINIMUM 2" LARGER THAN PIPE O.D.
- 5. INSTALL #10 TRACER WIRE PER WR-12 AND CITY STANDARDS.
- 6. ALL JOINTS BETWEEN MAIN AND DETECTOR CHECK SHALL BE FLANGED CONNECTED.
- 7. FOR RETROFITS, SUBMIT BACKFLOW PREVENTOR FOR CITY APPROVAL.
- 8. DISTANCE FROM P.O.C. SHALL BE 5' MAXIMUM UNLESS CONDITIONS DO NOT PERMIT. RPDA SHALL NOT BE LOCATED BETWEEN CURB AND DETACHED SIDEWALK. IF RPDA IS LOCATED AT A DETACHED SIDEWALK, RPDA SHALL BE 3'-5' FROM THE BACK OF WALK.

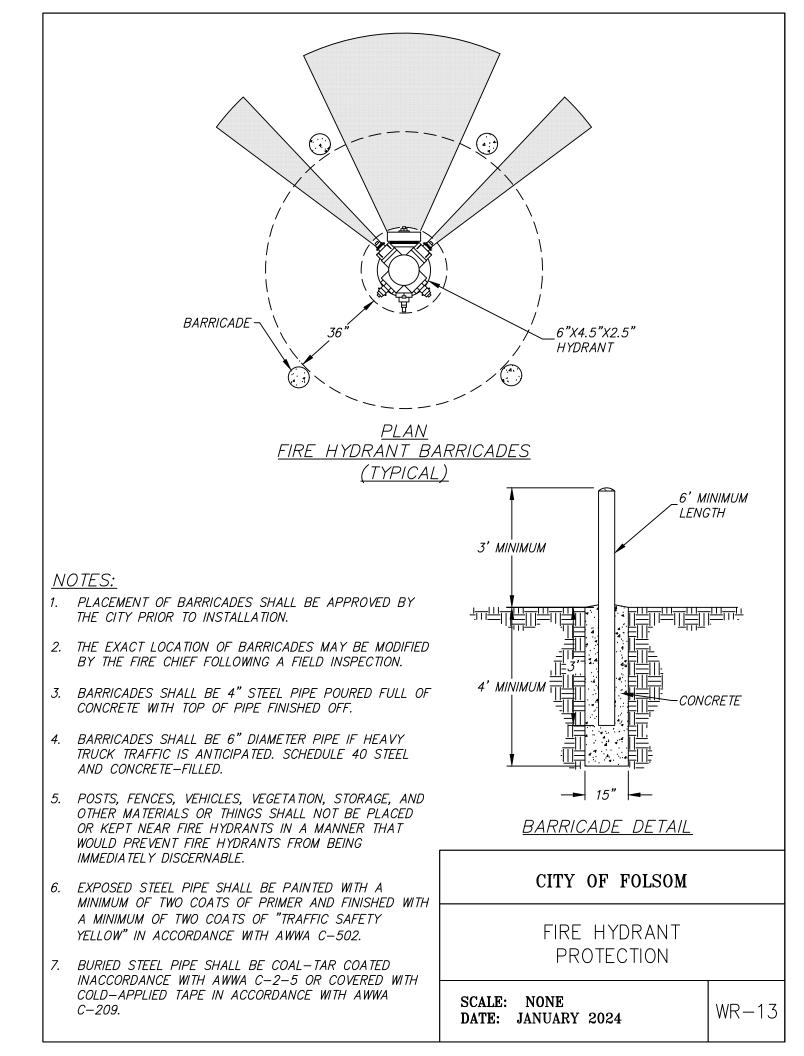


- 1. REDUCED PRESSURE PRINCIPLE ASSEMBLY TO BE APPROVED BY THE CITY.
- 2. ALL MATERIALS SHALL MEET APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.
- 3. BACKFLOW PREVENTER SHOWN MAY NOT REFLECT MANUFACTURERS' CONFIGURATION FOR REDUCED PRESSURE DEVICES.
- 4. PIPE PENETRATION SHALL BE FILLED WITH NON-SHRINK GROUT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI. OPENING SHALL BE MINIMUM 2" LARGER THAN PIPE O.D.
- 5. INSTALL TRACER WIRE PER WR-12 AND CITY STANDARDS.
- 6. ALL JOINTS BETWEEN MAIN AND BACKFLOW ASSEMBLY SHALL BE FLANGED CONNECTED.
- 7. FOR BACKFLOW PREVENTERS 3" AND LARGER, DUCTILE IRON PIPE REQUIRED FOR ALL PIPING.
- 8. PUBLICLY OWNED BACKFLOW PREVENTERS SHALL HAVE "STRONG-BOX" OR APPROVED EQUAL ENCLOSURE.
- 9. DISTANCE FROM P.O.C. SHALL BE 5' MAXIMUM UNLESS CONDITIONS DO NOT PERMIT. RPDA SHALL NOT BE LOCATED BETWEEN CURB AND DETACHED SIDEWALK. IF RPDA IS LOCATED AT A DETACHED SIDEWALK, RPDA SHALL BE 3'-5' FROM THE BACK OF WALK.



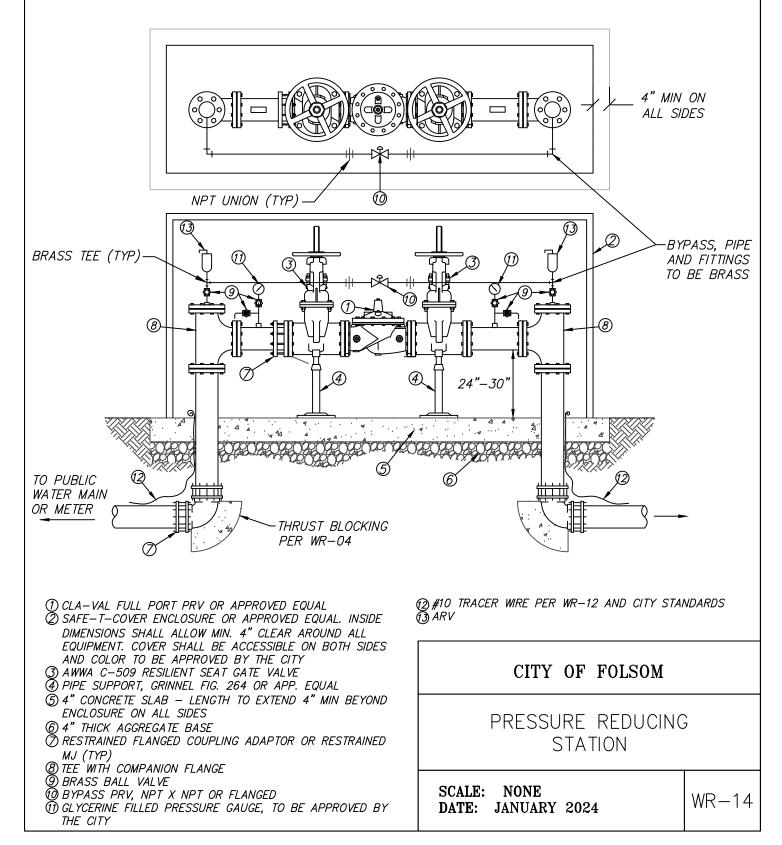


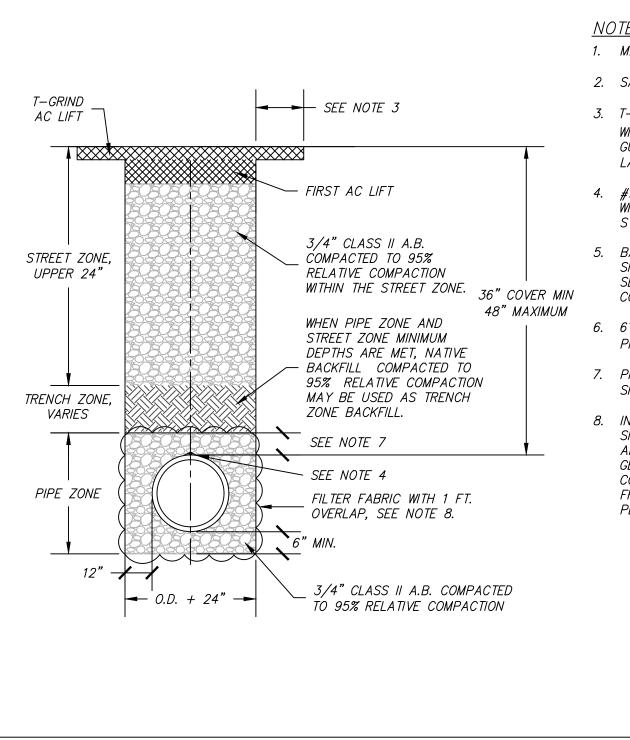




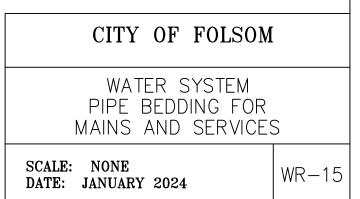


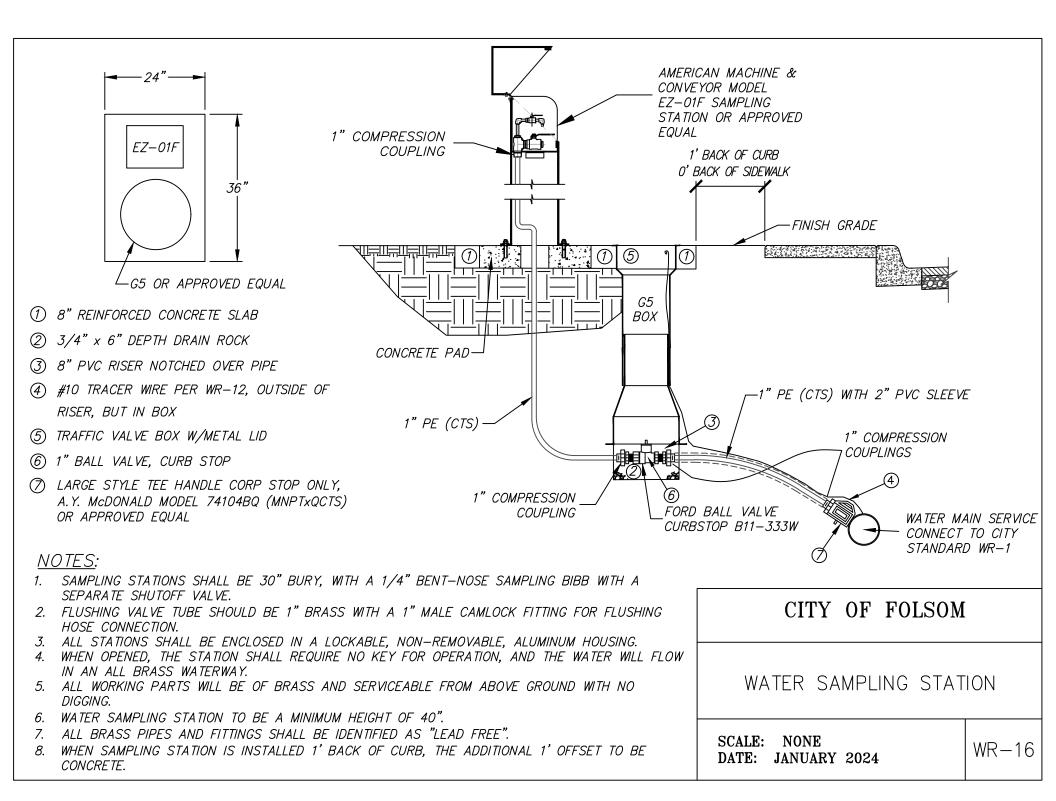
- THIS DRAWING IS INTENDED TO ILLUSTRATE REQUIRED COMPONENTS. ACTUAL PRV STATION SHALL BE DESIGNED AND 1. STAMPED BY A LICENSED ENGINEER AND BE EVALUATED FOR SPECIFIC PROJECT SITE AND CONDITIONS.
- 2. ALL MATERIALS SHALL MEET APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.
- .3. PIPE PENETRATION SHALL BE FILLED WITH NON-SHRINK GROUT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI. OPENING SHALL BE MINIMUM 2" LARGER THAN PIPE O.D.
- 4.
- LOCATION OF PRV STATION SHALL BE APPROVED BY THE COF ENVIRONMENTAL & WATER RESOURCES DIVISION. PRV SHALL HAVE A PRESSURE RANGE OF 30 PSI TO 300 PSI, EPOXY COATED, WITH POSITION INDICATOR. PRV SHALL MEET THE FOLLOWING CRITERIA: BODY AND COVER TO BE DUCTILE IRON; DISC GUIDE, SEAT, PILOT, AND COVER BEARING TO BE 5. STAINLESS STEEL; DISC TO BE BUNA-N RUBBER; DISC RETAINER AND COVER TO BE DUCTILE IRON; DIAPHRAGM TO BE NYLON REINFORCED BUNA-N RUBBER; STEM, NUT, AND SPRING TO BE STAINLESS STEEL.
- ALL ABOVE GROUND PIPING AND FITTINGS, EXCEPT FOR VALVES, SHALL BE COATED PER CITY STANDARDS. 6.
- 7 MIN 4" CLEARANCE FROM ENCLOSURE TO HANDWHEEL OR ARV

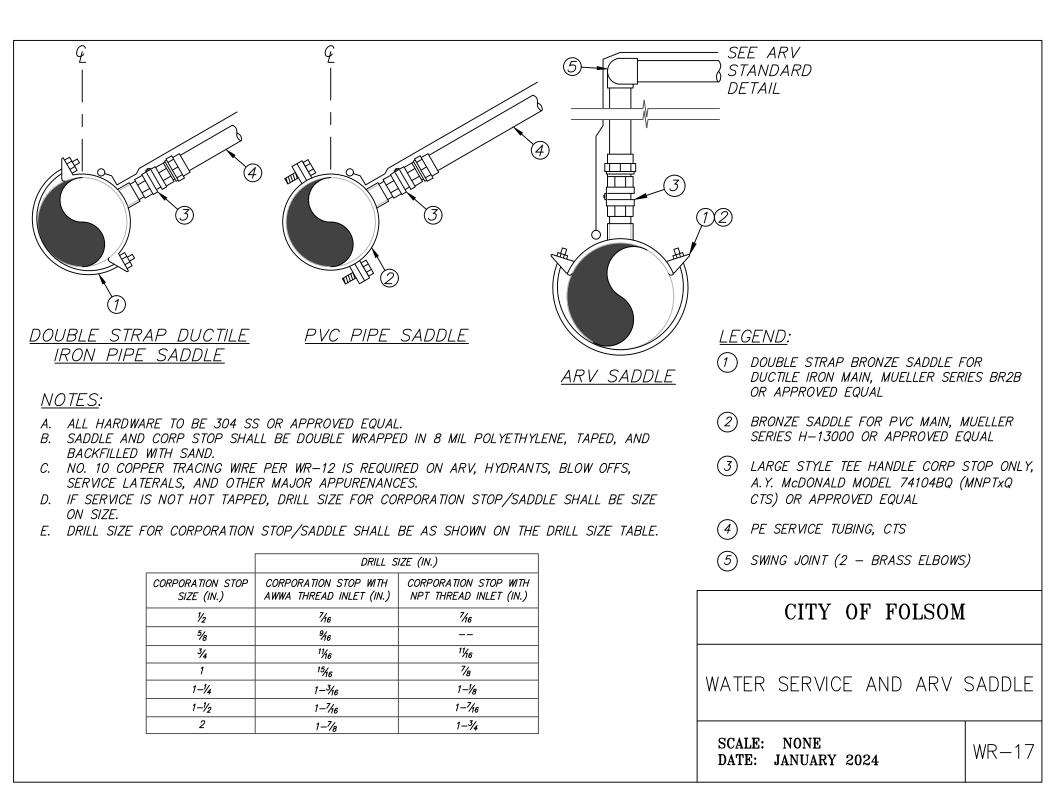


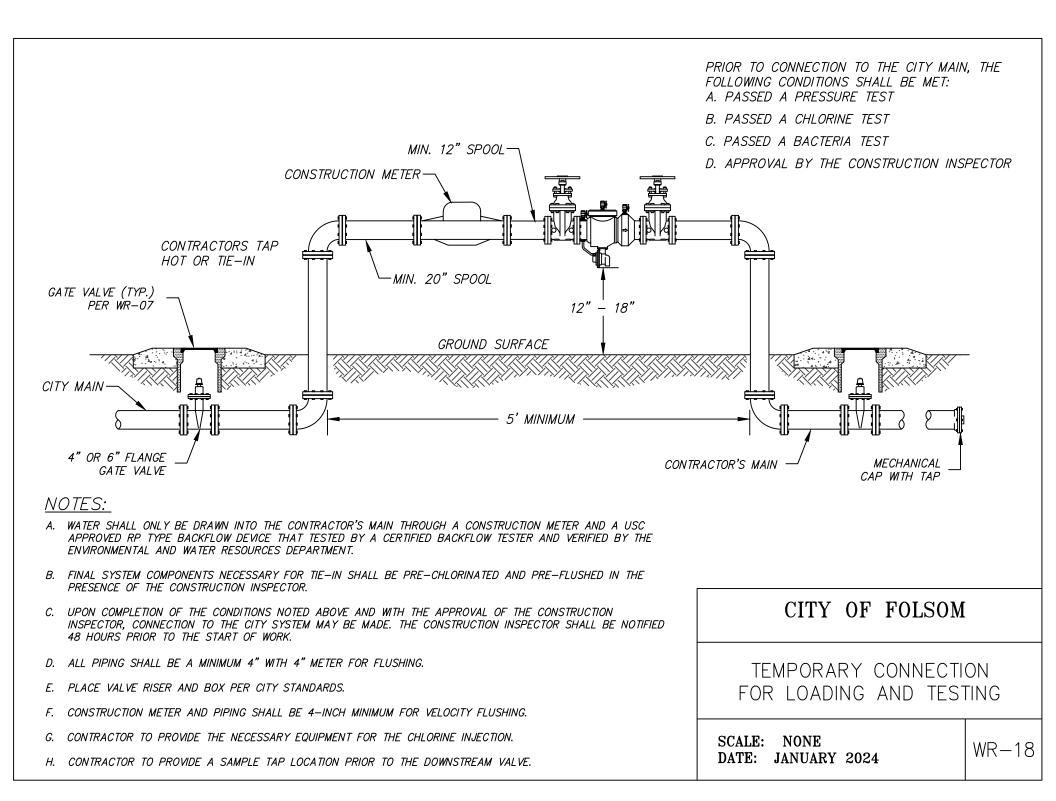


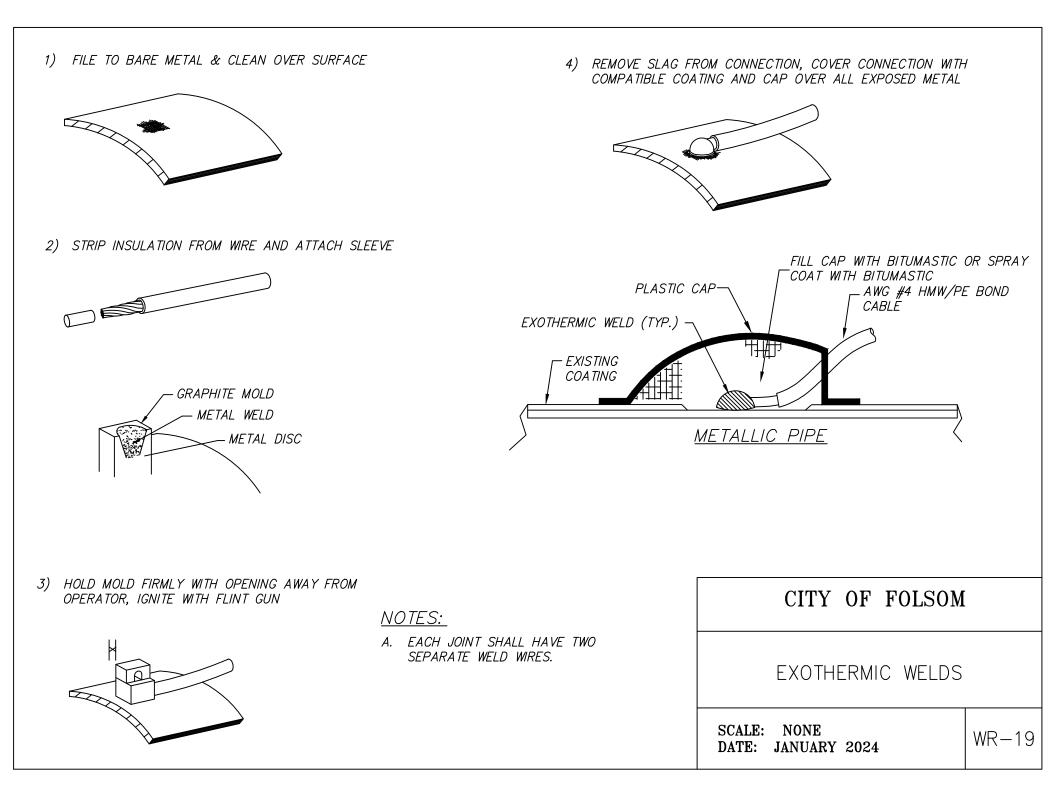
- 1. MATCH EXISTING A.C. THICKNESS: 4" MINIMUM.
- 2. SAW CUT 12" BEYOND THE WIDTH OF THE TRENCH.
- 3. T-GRIND REQUIRED FOR ALL PAVEMENTS (12" MINIMUM WIDTH). 13" DEEP GRIND AND PAVE TO THE LIP OF GUTTER, LANE LINE, OR CENTER OF ADJACENT TRAFFIC LANE (WHICHEVER IS APPLICABLE).
- 4. #10 TRACER WIRE. CONNECT SERVICE LATERAL TRACER WIRE TO MAIN LINE TRACER WIRE PER WR-12 AND CITY STANDARDS.
- 5. BACKFILL SHALL BE MECHANICALLY CONSOLIDATED AND SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE. SEE CITY SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
- 6. 6" WIDE (MINIMUM) BLUE MARKING TAPE, 12" ABOVE PIPE. TAPE SHOULD READ "BURIED WATER MAIN".
- 7. PIPE ZONE COVER OVER THE TOP OF WATER MAINS SHALL BE A MINIMUM OF 12".
- 8. IN AREAS OF FLOWING GROUNDWATER, FILTER FABRIC SHALL BE PLACED AROUND THE PIPE ZONE BEDDING AND SHADING IN ACCORDANCE WITH THE ON-SITE GEOTECHNICAL ENGINEER, AS WELL AS METHODS FOR COLLECTING AND CONVEYING GROUNDWATER AWAY FROM UNDERGROUND ROADWAY AND INFRASTRUCTURE PER GEOTECHNICAL ENGINEER.

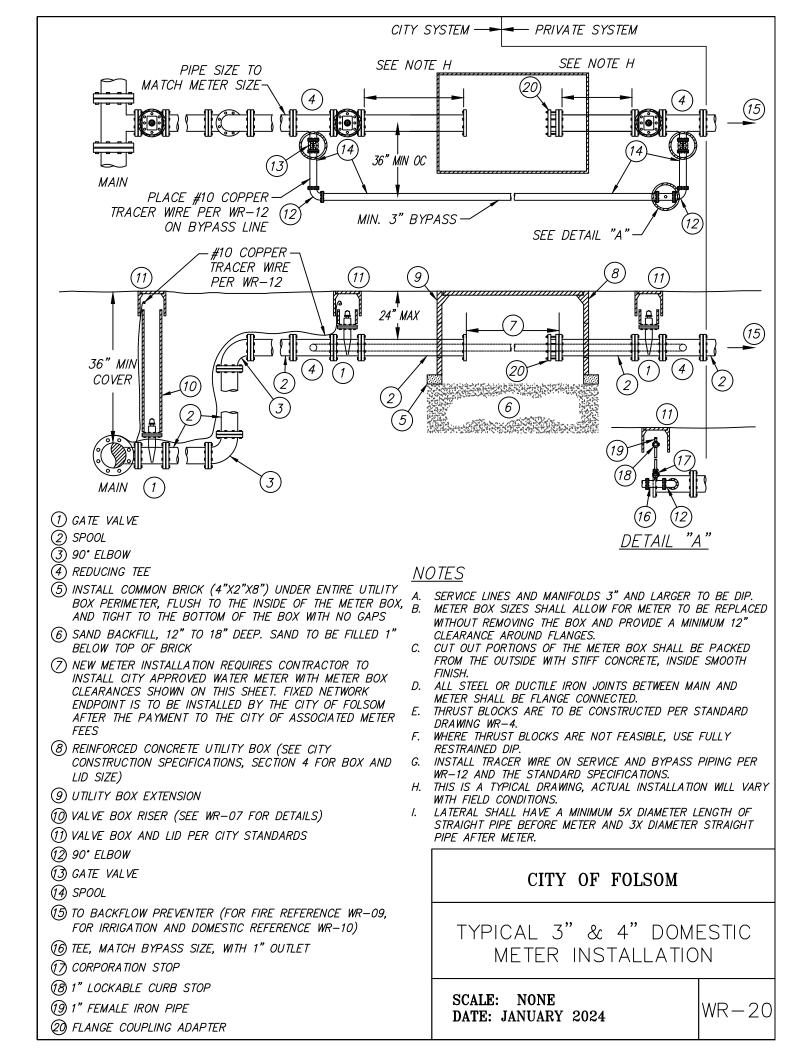


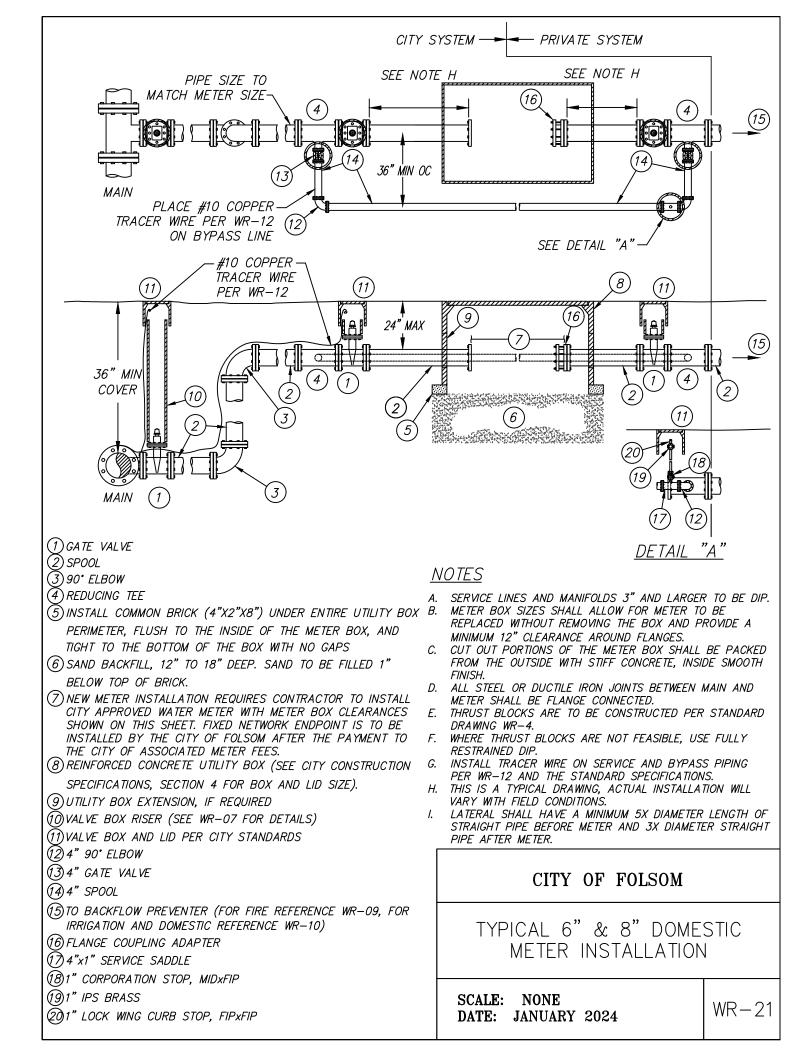


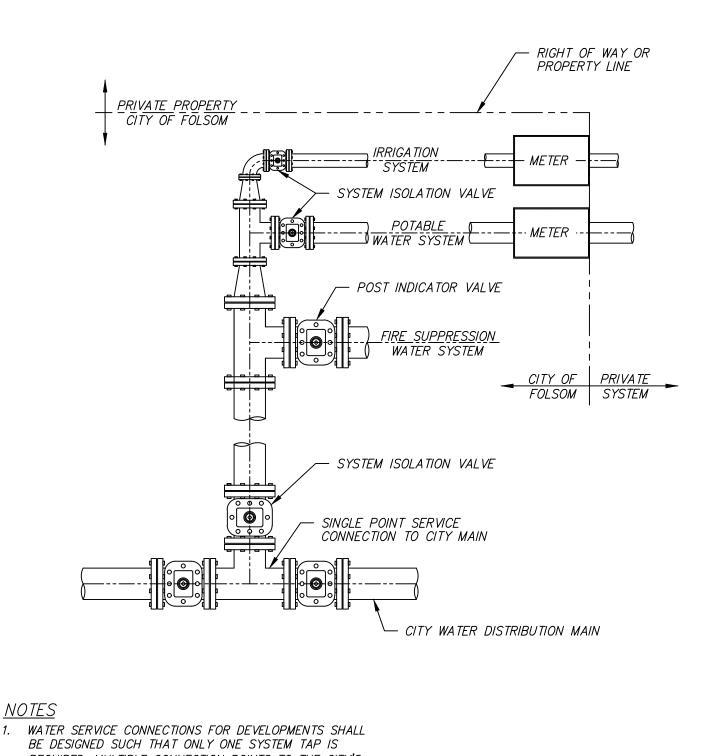












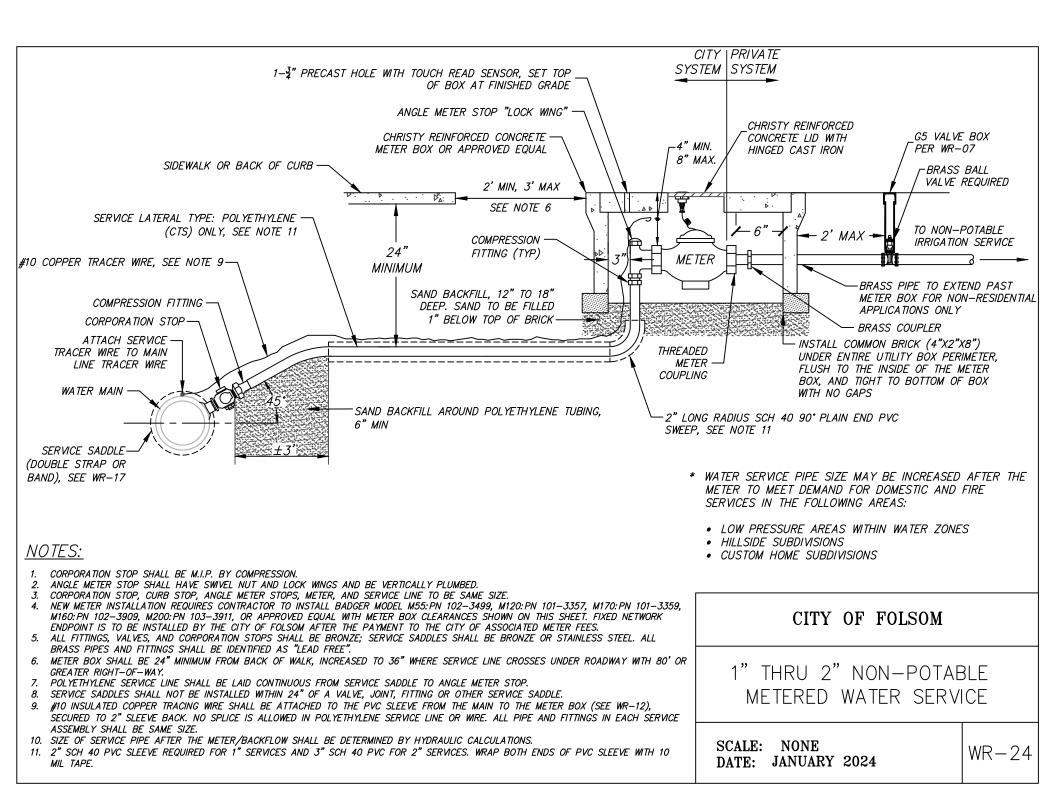
- 1. WATER SERVICE CONNECTIONS FOR DEVELOPMENTS SHALL BE DESIGNED SUCH THAT ONLY ONE SYSTEM TAP IS REQUIRED. MULTIPLE CONNECTION POINTS TO THE CITY'S WATER DISTRIBUTION MAIN FOR A SINGLE DEVELOPMENT WILL NOT BE ALLOWED.
- 2. BACKFLOW PREVENTION DEVICES ARE NOT SHOWN. THE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE LOCATION AND DETAILS OF THE WATER METERS AND BACKFLOW PREVENTION DEVICES FOR APPROVAL BY THE CITY. ALL METERS SHALL BE INSTALLED WITHIN THE CITY OF FOLSOM RIGHT OF WAY OR EASEMENT.
- 3. THE TYPE OF TIE-IN CONNECTION ("HOT TAP" OR "CUT-IN") TO BE INSTALLED WILL BE MADE BY THE CITY UPON REVIEW OF THE WATER AND/OR IMPROVEMENT PLANS.

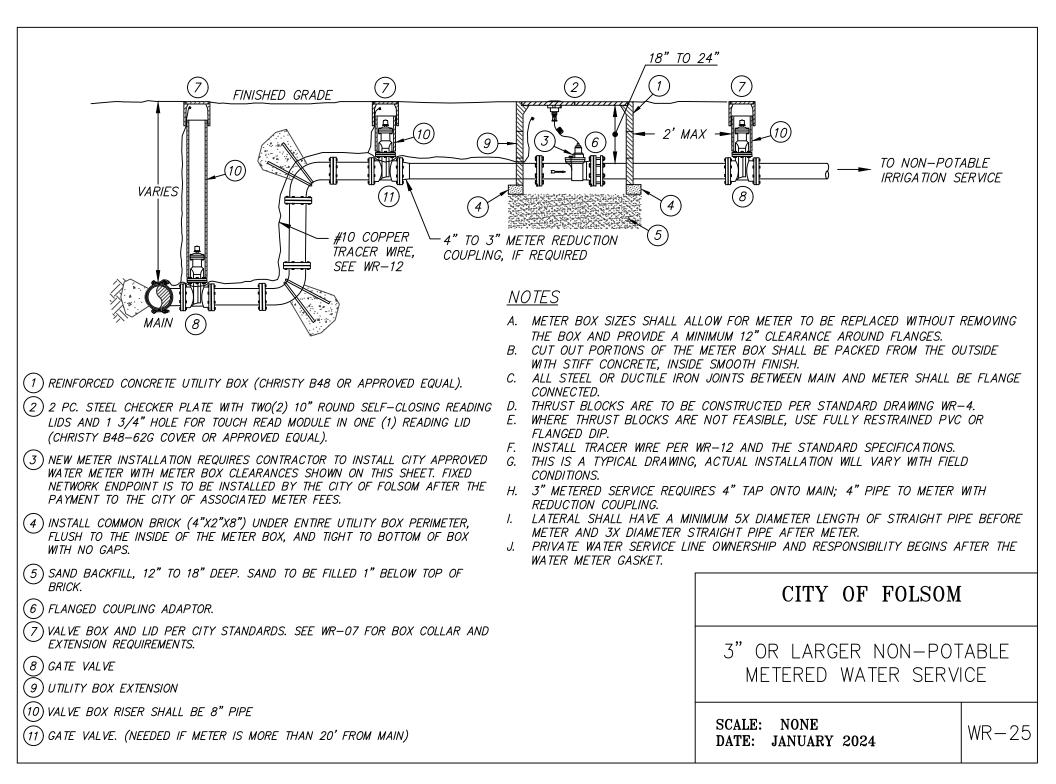
CITY OF FOLSOM

WATER SERVICE MULTI-CONNECTION

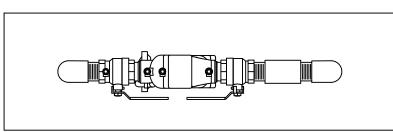
SCALE:	NONE	WR-23
DATE:	JANUARY 2024	

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- 1. REDUCED PRESSURE PRINCIPLE ASSEMBLY TO BE LEAD FREE AND APPROVED BY THE CITY.
- 2. ALL MATERIALS SHALL MEET APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.
- 3. BACKFLOW PREVENTER SHOWN MAY NOT REFLECT MANUFACTURERS' CONFIGURATION FOR REDUCED PRESSURE DEVICES.
- 4. INSTALL TRACER WIRE PER CITY STANDARDS. ALL PIPING FROM METER TO BACKFLOW SHALL BE COPPER OR BRASS.
- 5. FOR BACKFLOW PREVENTERS 2" AND SMALLER, PIPE SUPPORTS ARE NOT REQUIRED.
- 6. THRUST BLOCKS NOT REQUIRED FOR BACKFLOW PREVENTERS 2" AND SMALLER.
- 7. PUBLICLY OWNED IRRIGATION BACKFLOW PREVENTERS SHALL HAVE "STRONG-BOX" OR APPROVED EQUAL ENCLOSURE.
- 8. BACKFLOW PREVENTER ANNUAL TESTING, MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.



NOTE: DISTANCE FROM P.O.C. SHALL BE 5' MAXIMUM UNLESS CONDITIONS DO NOT PERMIT.

