

April 23, 2020 Version

The following "Water Plan General Notes" shall be included on all private and public land development projects that involve new subdivisions and/or public improvements to Town of Wickenburg water utilities and facilities.

TOWN OF WICKENBURG WATER PLAN GENERAL NOTES

1. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THE CONTRACT DOCUMENTS SHALL BE IN ACCORDANCE WITH THE 2018 MAG (MARICOPA ASSOCIATION OF GOVERNMENTS) STANDARD SPECIFICATIONS AND DETAILS AND MOST CURRENT TOWN OF WICKENBURG SUPPLEMENTS THEREOF UNLESS SPECIFIED OTHERWISE IN THESE DRAWINGS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND MARICOPA COUNTY REQUIREMENTS SHALL BE COMPLIED WITH.
3. ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE PER MAG SPECIFICATIONS AND STANDARD DETAILS UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
4. FINAL ACCEPTANCE SHALL NOT BE ISSUED UNTIL RECORD DRAWINGS HAVE BEEN CERTIFIED BY THE ENGINEER OR SURVEYOR AND HAVE BEEN REVIEWED AND APPROVED BY THE TOWN ENGINEER. UPON APPROVAL, THE CONTRACTOR SHALL PROVIDE TO THE TOWN ONE DIGITAL PDF COPY AND ONE CAD FILE ON A USB DRIVE. A GIS POINT FILE THAT CONTAINS THE NORTHING, EASTING, AND ELEVATION OF VALVES, BENDS, TIE-IN LOCATIONS, MANHOLES, ETC. SHALL ALSO BE SUBMITTED ON USB TO THE TOWN PRIOR TO FINAL ACCEPTANCE. "FINAL ACCEPTANCE" CONSTITUTES APPROVAL FROM THE TOWN THAT ALL DOCUMENTATION REQUIREMENTS HAVE BEEN MET AFTER CONSTRUCTION COMPLETION. FINAL ACCEPTANCE DOES NOT RELEASE THE CONTRACTOR FROM THEIR WARRANTY OBLIGATIONS.
5. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO CONTRACT DOCUMENTS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH CONTRACT DOCUMENTS AND TO COMPLETE THE WORK.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES, TELEPHONE, FIBER OPTIC, AND ELECTRICAL CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION; AND WILL IMPLEMENT ALL REASONABLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE TOWN WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
8. WATER-SEWER SEPARATION SHALL BE PURSUANT TO MAG STANDARD SPECIFICATION 610.5, MAG STANDARD DETAIL 404, AND AAC R18-5-502.

9. TRENCH BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE TOWN STANDARD DETAIL.
10. ALL PIPES AND APPURTENANCES SHALL BE PROVIDED WITH 14-GAUGE, STRANDED WIRE, DIRECT BURY COPPER WITH BLUE COATING. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST. TEST/ACCESS BOXES SHALL BE PROVIDED AT NOT MORE THAN 1,000-FOOT SPACING.
11. ALL PIPES, FITTINGS, VALVES, COATINGS, ETC. SHALL CONFORM TO THE "NATIONAL SANITATION FOUNDATION" (NSF) STANDARD 61, AAC R18-4-203. PIPES AND APPURTENANCES SHALL HAVE NSF SEAL FOR POTABLE WATER STANDARD AS EVIDENCE FOR POTABLE WATER USE.
12. ALL PIPES, FITTINGS, VALVES AND APPURTENANCES MUST BE LEAD FREE PURSUANT TO AAC R18-4-504 AND NSF 372 COMPLIANT.
13. PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES SHALL CONFORM TO STANDARDS SET BY AWWA ("AMERICAN WATER WORKS ASSOCIATION"), ASTM, OR THE FEDERAL GOVERNMENT.
14. 8-INCH DIAMETER AND LARGER WATER MAINS SHALL HAVE A FIRE HYDRANT IN EACH VALVED SECTION WHICH SHOULD BE INSTALLED AT LOW POINTS IN THE MAINS FOR FLUSHING.
15. AIR RELEASE OR VACUUM RELIEF VALVES SHALL BE INSTALLED INSIDE VAULTS OR MANHOLE STRUCTURES AND SHALL NOT BE CONNECTED DIRECTLY TO STORM DRAINS OR SEWERS AND SHALL BE SUITABLY DRAINED. AIR VALVES SHALL BE AT HIGH POINTS IN WATER MAINS OR WHERE A LONG PIPE CHANGES SLOPE. THE OPEN END OF THE VENT FROM VALVE SHALL BE CONTAINED BELOW GRADE, TURNED DOWN, AND SCREENED WITH #16 MESH.
16. 4-INCH THROUGH 16-INCH DIAMETER PIPE SIZES MAY BE PVC 900 OR CEMENT LINED DUCTILE IRON, EXCEPT WHERE A PARTICULAR MATERIAL IS SPECIFIED BY THE CONTRACT DOCUMENTS AND APPROVED BY THE TOWN ENGINEER. ALL PIPES SHALL BE MINIMUM 150 PSI DESIGN UNLESS OTHERWISE SPECIFIED. PIPES 16-INCHES OR LARGER SHALL BE CEMENT LINED DUCTILE IRON.
17. POLYETHYLENE ENCASEMENT SHALL CONFORM WITH MAG STANDARD SPECIFICATION 610.6.
18. WATER TAPS AND SERVICE CONNECTIONS SHALL COMPLY WITH MAG STANDARD SPECIFICATION 631. INSTALL MUELLER B-25028 300 BALL CORPORATION VALVE, IP THREAD WITH MUELLER 110 CONDUCTIVE COMPRESSION CONNECTION FOR CTS OD TUBING. INSTALL MUELLER B-24258 300 ANGLE BALL VALVE WITH MUELLER 110 CONDUCTIVE COMPRESSION CONNECTION FOR CTS OD TUBING X METER SWIVEL NUT.

19. ALL METER BOXES AND COVER SHALL HAVE MINIMUM DIMENSIONS OF A NO. 2 METER BOX AS PER MAG STANDARD DETAILS. INSTALL METER BOX DFW PLASTICS MODEL DFWA2C-12-1.
20. ALL VALVES SHALL BE MUELLER, GATE TYPE, UNLESS OTHERWISE NOTED, AND OPEN TO THE LEFT. GATE VALVE TOP OF NUTS SHALL BE A MAXIMUM OF 8 FEET BELOW FINISHED GRADE. USE OF VALVE EXTENSION SYSTEMS REQUIRES SUBMITTAL TO, AND APPROVAL BY THE TOWN ENGINEER.
21. TOWN WATER VALVES SHALL ONLY BE OPERATED BY TOWN PERSONNEL. THE TOWN REQUIRES A 72 HOUR NOTICE FROM THE CONTRACTOR FOR SYSTEM SHUTDOWNS. THE CONTRACTOR IS REQUIRED TO SUBMIT A SHUTDOWN PLAN TO THE TOWN FOR APPROVAL 72 HOURS BEFORE THE PLANNED SHUTDOWN. THE CONTRACTOR SHALL NOTIFY AFFECTED CUSTOMERS 48 HOURS PRIOR, AND INFORM THE TOWN OF ANY AFFECTED CUSTOMERS REQUIRING CONTINUOUS SUPPLY DUE TO MEDICAL TREATMENTS, ETC.
22. ALL VALVE BOXES SHALL BE MAG STANDARD DETAIL 391-1 TYPE "A" AND FURNISHED WITH A DEBRIS CAP PER MAG STANDARD DETAIL 392, C900 PVC MAY BE USED IN LIEU OF CONCRETE PIPE.
23. FIRE HYDRANTS SHALL BE INSTALLED PER THE MAG STANDARD DETAIL 360-1. INSTALL MUELLER SUPER CENTURION® TYPE A423 5-1/4 INCH MAIN VALVE OPENING 3-WAY (2 HOSE NOZZLE/1 PUMPER NOZZLE), BREAK-AWAY, DRY BARREL DESIGN AND SHALL BE FURNISHED BY THE CONTRACTOR. ALL FIRE HYDRANTS SHALL BE PAINTED RED AFTER INSTALLATION. EACH FIRE HYDRANT SHALL BE FURNISHED WITH A GATE VALVE. FIRE HYDRANTS SHALL BE INSTALLED SUCH THAT THE CENTERLINE OF THE PUMPER NOZZLE SHALL NOT BE LESS THAN 18 INCHES ABOVE FINISHED GRADE OR ADJACENT TOP OF CURB, WHICHEVER IS HIGHER.
24. FIRE HYDRANTS SHALL BE INSTALLED EVERY 400 FEET, WITH A MAXIMUM OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
25. TOWN APPROVED AND CERTIFIED BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT SUPPLY POINTS AND IN ACCORDANCE WITH THE TOWN CROSS-CONNECTION CONTROL PROGRAM.
26. FOR COMMERCIAL PROPERTIES, BACKFLOW PREVENTION ASSEMBLIES SHALL BE ENCLOSED IN A PROTECTIVE, LOCKABLE METAL CAGE.
27. PRESSURE TESTING-PART OF INSTALLATION INSPECTION-PROJECT SPECS SHOULD ADDRESS AWWA STANDARD C600 FOR DIP, C605 FOR PVC, AND MAG STANDARD SPECIFICATION 611. FOR HDPE FOLLOW MANUFACTURERS GUIDANCE.
28. ALL MAINS SHALL BE DISINFECTED PER BULLETIN 8 (DISINFECTION OF WATER SYSTEMS) OR AWWA C651 (DISINFECTING WATER MAINS).

29. ALL WATER PIPES LESS THAN 12 INCHES IN DIAMETER MUST HAVE A MINIMUM 3 FEET (36 INCHES) OF COVER. ALL WATER PIPES 12 INCHES IN DIAMETER AND LARGER MUST HAVE MINIMUM 4 FEET (48 INCHES) OF COVER.
30. WATER MAIN CONCRETE ENCASMENT SHALL BE PER MAG STANDARD DETAIL 404-3. REBAR SHALL BE INSPECTED BY THE TOWN INSPECTOR PRIOR TO CONCRETE PLACEMENT.
31. WHERE WATER LATERALS ARE LOCATED, CONTRACTOR SHALL INSTALL NEW CONCRETE CURBS WITH A "W" FOR WATER SERVICES AT EACH LOT OR LOCATION.