



## **WATER LINE NOTES**

1. Wherever the word “City” appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
2. All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa County, etc.) shall leave the property in the same or better conditions.
3. Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
4. A pre-construction meeting is required and can be coordinated with City staff at (918) 556-7467. Five (5) 11”x17” sets of final plans are to be provided at the time of the meeting.
5. All water lines are typically 8-feet inside the Street Right-of-Way except at bends, tees or as noted.
6. All Water Line pipe under pavement section or at pavement section crossings shall be backfilled with “ODOT Type A Aggregate Base” as specified in Section 703.01 in the 2019 ODOT Standard Specifications and compacted to 99% Standard Proctor Density, or a flowable fill consisting of a sand-cement slurry of 2,970 pounds of sand, 100 pounds of cement and approximately 458 pounds of water per cubic yard. The slurry will be mixed to a pourable soupy mix in a ready-mix truck. All proposed pavement crossings shall be backfilled 2.0 feet beyond the back of curb. The cost of this backfill shall be included in the priced bid for other items. No additional payment will be made.
7. All utility trench backfill material shall be compacted to at least 95 percent of the maximum dry density, as determined by the appropriate moisture-density rotation test or as directed by the City of Jenks.
8. All water distribution systems shall be designed in accordance with the current City Of Jenks land subdivision code and all construction installation shall meet or exceed the City Of Jenks construction standards and municipal policy.
9. The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City’s request, during the construction process, if necessary.
10. All water distribution system construction shall be inspected by the Engineering Department utility inspectors.
11. Dig through locator tape will be buried 2 feet above the line.



12. When C-900 PVC is used, a No. 8 bare copper wire shall be taped to the top surface of the pipe and connected to each fire hydrant by attaching to a bolt, just above ground level.
13. All iron pipe and fittings shall be polywrapped.
14. Street crossings for main lines twelve (12) inches and larger shall be placed in conduit.
15. All distribution lines in conduit and at drainage feature crossings shall be constructed with restrained joints.
16. All main lines shall have a minimum of three (3) feet and a maximum of eight (8) feet of cover, unless otherwise shown herein.
17. Bedding, backfill and compaction over water lines shall be in accordance with standard drawings. Backfill and compaction requirement for street crowning shall extend two (2) feet back of curb.
18. All water distribution system lines, except dead end for fire hydrants only, shall be looped to provide circulation.
19. Distribution lines smaller than four (4) inches shall not be installed.
20. All water system service lines at road crossings shall be encased within a minimum 4-inch diameter schedule 40 PVC pipe sleeve with a 3-foot bury depth. Each service line road crossing shall only be allowed from lot line intersecting point to lot line intersecting point. No water service roadway crossings will be allowed to be connected to the main waterline in any location other than at lot line intersection points, except where necessary. In side-lot situations, connection shall be located behind the curb point of curvature and will only be allowed to terminate across the street at intersecting lot line locations 3 linear feet behind back of curb. In no case shall the water service line be constructed under a driveway.
21. When working in or adjacent to existing subdivisions only one (1) day's worth of trench may be open at a given time. This requirement may be modified, in writing by the City Engineer, for a specific project.
22. Road closures must be coordinated a minimum of forty-eight (48) hours in advance. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
23. All fitting bends, tees and fire hydrants shall have mechanical joint restraints, with Midco grip rings.
24. No construction activities on the water system are permitted until the City Engineer's office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the water system has been provided by the City Engineer.



25. The following minimum separation distances between water lines and other utilities should be maintained, should such utilities be unexpectedly encountered during construction:

1. Ten feet horizontally and two feet vertically from sewer lines. When it is impossible to obtain such horizontal separation between the water and sewer lines, construct the sewer line of water pipe and pressure test it to assure water tightness.
2. Five feet horizontally from existing or proposed storm sewers, raw water lines, petroleum product lines, natural gas lines and other buried utility lines.
3. Locate PVC water lines at least 50 feet horizontally from any gasoline storage tanks and lines.
4. Fifteen feet from all parts of septic tanks, absorption fields or other sewage treatment and disposal systems.

26. Domestic water service tap shall be installed according to City of Jenks specifications by an approved water service installation contractor/plumber and inspected by Public Works Department.

27. FIRE HYDRANTS:

1. Fire hydrants shall be a minimum 4½ - inch nozzle type and of the Kennedy and Mueller brand name.
2. Each hydrant shall be set with the streamer nozzle facing the street and with a minimum clearance of eighteen (18) inches above the finished grade.
3. All exposed portions of fire hydrants shall be painted with a safety yellow enamel as manufactured by Glidden or DuPont.
4. All fire hydrants must have a 6-inch diameter gate valve installed between the fire hydrant and the waterline main with restraints between the valve and hydrant.

-