## Water Notes From Construction DGN

## KUB WATER CONSTRUCTION NOTES:

- 1. Road right-of-ways or utility easements shall be to finished grade and sloped to meet required specifications or as approved by KUB prior to staking and installing water mains.
- 2. The Developer's Authorized Representative shall stake the proposed water main layouts, property corners, and easement locations etc...prior to construction or approval of plans or both to allow ample time for KUB's inspectors to inspect the layouts prior to construction. KUB will determine if staking may be required prior to approval of plans.
- 3. Construction materials must meet KUB specifications. KUB representatives must approve material submittals prior to construction.
- 4. Water main installation must be inspected by KUB. Contact KUB Field Services at least three (3) days prior to construction at 558-2786. Trenches shall be left open and not backfilled until inspected by KUB.
- 5. Contractor will sterilize water mains when installation and testing are complete. Contractor shall provide taps as required for sterilizing mains. Water quality sampling and testing will be performed by KUB.
- 6. Contractor must have a valid State of Tennessee municipal utlity license for construction of water mains on site at all times.
- 7. Air release valves shall be installed on high points on the mains in accordance with the plans and/or as requested by KUB's inspectors.
- 8. The Contractor must have water service lines installed across streets before any surface cover is finalized to include paving, concrete driveways, etc.

## GENERAL WATER NOTES:

- 1. All water lines and appurtenances shall be installed in accordance with the Knoxville Utilities Board's Standard Water System Specifications and Details.
- 2. Requirements for proper trench and backfill operations must meet or exceed the City of Knoxville, Knox County, and TDOT Standards.
- 3. Location of all existing utilities is approximate. Contractor shall field locate all existing utilities prior to excavation.
- 4. Water services shall be buried at a minimum depth of 24 inches to prevent freezing.
- 5. Minimum 36 inches depth of cover for water mains.
- 6. Utilities shall be installed after grading has been completed and approved before any surface cover is finalized to include paving, concrete driveways, etc.
- 7. After completing each section of water, all debris and construction materials shall be removed from the work site. The disturbed ground surface shall be smoothly graded.
- 8. All water valves shall conform to KUB standards and specifications.
- 9. KUB personnel will test water service to the existing public ROW or easement from the existing system for the proposed water system.
- 10.Horizontal separation between water and sewer mains is a minimum of 10 feet.
- 11. Water mains are not installed in the same trench with other utilities unless approved through KUB Engineering in writing.
- 12. Any field changes to approved plans must be approved by the appropriate KUB representative before construction.
- 13.A copy of the latest approved set of utility plans designated by the RED KUB/TDEC RED stamp must be present during all times of construction of the appropriate utilities.