

Event 9478
State of Tennessee
Military Department, VTS-Milan
Domestic Water Project
Specifications

This project will connect the VTS-Milan, 324 Arsenal Lane, Lavinia, TN 38348 onto the Cedar Grove Utility District, 3100 Hwy 220, Lavinia, TN 38348. A 6" waterline will be ran from the Cedar Grove Utility main running along Spring Creek Road and tie into the existing Milan Army Ammunition Plant water main.

The contractor shall provide all labor, equipment and materials to complete the job as specified in the attached Installation Specifications and Engineer Drawings and those listed below:

1. The Contractor shall bore Spring Creek Road with 12" casing pipe and install a 6" carrier pipe.
2. The Contractor shall cut parking lot in front of Bldg. #200. Tap on to the existing Cedar Grove Utility main line. Install a saddle tap, sleeve, valve and box. Patch parking plot when finished, compact base with 12" of rock, compact asphalt to finish grade.
3. The Contractor shall trench and install 1000 LF of 6 inch pipe from Cedar Grove Utility main line along Spring Creek Road to existing VTS-Milan line supplying barracks, dining facilities and admin support buildings. Install wire and detector tape to line prior to seeding and mulching the disturbed ground areas.
4. The Contractor shall install poured in place concrete meter and backflow vault, with traffic rated lid. Tie line to existing line at barracks with tee, sleeve, valve and box
5. The Contractor shall remove existing 4 inch backflow and cap line. Dispose off of state property in accordance with State and local laws.
6. Trace Wire: The Contractor shall install Magnetic detectible conductor the complete length of the line with brightly colored plastic covering imprinted with 'CAUTION BURIED WATER LINE' in large letters.
7. Inspections. Cedar Grove Utility will inspect taps at both their mainline and the training site tap, meter and backflow vault construction, meter and backflow installation. Cedar Grove Utility will be responsible for providing a schedule of inspections to the Contractor and the agency upon award of the purchase order.
8. Disinfect and Bleaching: New lines shall NOT be placed in service until they are disinfected in accordance with the Tennessee Department of Environment & Conservation (TDEC), Division of Water Supply Manual dated 2003 (see attached), and to the satisfaction of Cedar Grove Utility. The Contractor shall place plugs in end of uncompleted pipe at end of day and whenever work stops. Upon instruction from the agency or Cedar Grove Utility, the Contractor shall disinfect and bleach the new lines.
9. Cleaning Pipe: The Contractor shall clear interior of pipe of dirt and other superfluous material as work progresses. The Contractor shall maintain swab and drag in line and pull

each joint as it is completed.

10. Thrust Block: The Contractor shall install thrust blocks at each tap or fitting that changes the direction of the pipe main.
11. Erosion: The Contractor shall install erosion barriers around backflow and meter vault area and along downhill side of the trench.
12. Traffic Controls: The Contractor shall be responsible for providing traffic control as required to include at a minimum signage and safety vests.
13. Licenses and Permits: The Contractor shall be responsible for obtaining and maintaining all required licenses and permits as per Federal, State and local laws. The Contractor shall provide a copy of the license or permit to the agency representative upon request.

Acceptable Brands/Models:

Double Check Valve Assembly:

Watts Series LF709

Zurn Wilkins Model 350AR

Or Equal as approved by the Cedar Grove Utility

Specifications:

- Shall be designed to prevent the reverse flow of polluted water from entering into the potable water supply system.
- Shall be approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California.

Cold Water Turbine Meter (6 inch)

Elster AMCO Model T3000

Sensus WP/Dynamic Model 828607

Or Equal as approved by the Cedar Grove Utility

Specifications:

- For use in cold water up to 120 degrees F
- Operating Flow: 150 psi.
- Have round flanged ends
- Continuous Flow: 1982 GPM (Minimum)
- Register can be rotated 360 degrees
- Measuring element can be removed
- Body Material: Cast Iron or Bronze

Job to start within twenty (20) days after receipt of purchase order and end within one hundred and five (105) days.

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