

SECTION 01000 WORK REQUIREMENTS

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. Project Summary
 - 1. The installation of twelve (12) 6" insertion valves in different areas of the water system which currently do not have a valve. Existing water lines are 6" cast iron lines
 - 2. Replacement of two (2) 6" gate valves on existing 6" cast iron water lines.
 - 3. Replacement of eleven (11) hydrants that are no longer functioning. During the hydrant replacement process, the Contractor may be required to replace the Mechanical T and/or replace or add couplings when needed.

- B. The contractor will be responsible for the following work tasks:
 - 1. Mobilization to each job site where a valve is to be installed.
 - 2. Coordination of valve insertion and hydrant location with City forces.
 - 3. One-Call notification for utility locations as set forth by State of Tennessee, Title 65 – Public Utilities and Carrier, Chapter 31 Underground Utility Damage Prevention Act.
 - 4. Traffic control and related signage.
 - 5. Excavation and uncovering of existing water line where valves are to be inserted or replaced.
 - 6. Erosion Control
 - 7. Sheeting and shoring of excavations.
 - 8. Dewatering of excavations.
 - 9. Furnishing insertion valves, replacement valves, hydrants and all other materials, equipment and labor required to tap the lines, and install valves and hydrants at the locations depicted on the drawings.
 - 10. Testing of valves upon completion of installation to insure operability.
 - 11. Bacteriological testing to meet TDEC requirements.
 - 12. Blocking of valve after installation
 - 13. Furnishing and installation of new valve box
 - 14. Backfill of valve after installation.
 - 15. Seeding and restoration

- C. The Contractor is not responsible for pavement repair.

- D. Project Time
 - 1. Final completion for this project is set at 90 calendar days after the date the Contract Time commences.

1.02 WORK BY CITY FORCES

- A. The City forces will be responsible for the following work tasks:
 - 1. A water department employee will be onsite to verify all work is completed and tested prior to backfilling.
 - 2. Asphalt pavement repair.
 - 3. Concrete repair.

1.03 MAINTAINING TRAFFIC AND BUSINESS OPERATIONS

- A. The operations performed under this Contract shall be closely coordinated, scheduled and conducted in such a manner and sequence as to cause the least practical interference with the traveling public, fire protection service, public utility service or work by other contractors. No more than one street can be closed at a time. At conclusion of work day, road shall be returned to a passable condition. Construction signage following MUTCD requirements shall be used.

1.04 SAFETY

- A. Keep all flammable liquids in the areas designated. Provide and maintain in working order standard UL labeled, water pressurized fire extinguishers as required.
- B. Refer to Section 00200 Information for Bidders, Paragraph 17.
- C. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to;
 - 1. All persons on the Site or who may be affected by the Work.
 - 2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site.
 - 3. Other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

- D. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owner; the owners of adjacent property, Underground facilities, and other utilities; and other contractors and utility owners performing work at or adjacent to the Site. When protection of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- E. Contractor shall comply with the applicable requirements of Owner's safety programs, if applicable.
- F. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner' and Engineer's employees and representatives must comply while at the Site.
- G. All damage, injury, or loss to any property referred to in paragraph 1.02.C.2 or 1.02.C.3 caused, directly or indirectly, in whole or in part, by Contractor, or Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, inwhole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- H. Contractor's duties and responsibilities for safety and protection shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor that the Work is acceptable.
- I. Contractor's duties and responsibilities for safety and protection shall resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligation, or to conduct other tasks arising from the Contract Documents.
- J. Safety Representatives: Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.
- K. Hazard Communication Programs: Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard

communication information required to be made available to or exchanged between or among employees at the Site in accordance with Laws and Regulations.

- L. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

1.05 GENERAL REQUIREMENTS

- A. Protection of Public and Private Property: Take special care in working areas to protect public and private property. The contractor shall replace or repair at his own expense any damaged water line, power and communication lines, or other public utilities, drainage structures, all properties and fixtures, fences, plantings, etc. Leave the site in original or better condition after all cleanup work has been done.
- B. Markers: Preserve all USGS, TVA, and State of Tennessee property markers and private markers. Do not remove or disturb any such markers without prior approval from the Owner. Any removal and replacement of such markers shall be at the expense of the Contractor.
- C. Non discrimination: The Contractor agrees to hire qualified persons without regard to race, creed, color, sex, or national origin for the performance of the work specified in this contract.
- D. Drawings of Record: Provide a complete, up-to-date record set of blueline prints, which shall be corrected daily to show every change, and the approved shop drawings. Keep this set of prints at the job site and use only as a record set. Turn the set over to the Engineer/ Owner upon completion of the project. These drawings shall show locations of valves, hydrants and all work completed.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION

N/A

END OF SECTION