

SECTION 01010

PROJECT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work
- B. Project Time
- C. General Requirements

1.02 SUMMARY OF THE WORK

- A. This project consists of painting and rehabilitation of the existing elevated water storage tank, as well as site improvements. This is a NO-PLANS contract.
- B. General Tank Information (Contractor shall verify all dimensions to determine actual surface areas).
 - 1. Original Tank Construction in 1991.
 - 2. Tank head range of +/-37 feet.
 - 3. Tank height of 120.5 feet (to overflow).
 - 4. Tank diameter of 50 feet.
 - 5. Tank capacity of 500,000 gallons.
 - 6. Tank material: steel
 - 7. Tank foundation: concrete footers
 - 8. Interior access: 30"x60" ships door (ground level access to dry riser)
 - 9. Roof hatches: 24" square opening (1 hatch to dry riser, 1 hatch to tank).
 - 10. Interior ladder present in dry riser and in tank.
 - 11. Tank is vented via a roof vent.
- C. Tank Work Tasks (Refer to Section 01026, Measurement and Payment)
 - 1. Drain and clean water tank interior.
 - 2. Prepare and paint interior of steel tank and dry riser utilizing a painting system of zinc rich primer and high solids epoxy.
 - 3. Install new 1" rigid, aluminum-jacketed insulation on 12" inlet/outlet piping in dry riser, including caulking of jacket joints.
 - 4. Prepare and paint exterior of steel tank using a zinc/ urethane/ fluoropolymer paint system (Base Bid) or a zinc/ epoxy/ urethane paint system (Deductive Alternate Bid).
 - 5. Sealing of all seams at the interior roof to rim angles.
 - 6. Tank welding repairs as may be necessary.

7. Install a new flap valve on the tank overflow pipe outlet and a new 24-mesh non-corrosive stainless steel screen between the pipe flange and the flap valve.
8. Replace existing roof vent screen with new 24 mesh non-corrosive stainless steel screen.
9. Replace existing safety climb system on ladder in dry riser with new safety climb cable system manufactured and installed in accordance with OSHA requirements.
10. Replace existing safety climb system on ladder in tank with new safety climb cable system manufactured and installed in accordance with OSHA requirements.
11. Tank sterilization upon completion of the painting.
12. Installation of fencing around tank site, including all gates.
13. Re-grading of existing gravel access drive and installation of compacted crushed stone.
14. Mobilization and furnishing of performance and payment bonds.
15. Final site cleanup.

1.03 PROJECT TIME

- A. The project time shall be 80 consecutive calendar days for Substantial Completion and 90 consecutive calendar days for Final Completion to complete the work as shown on the Contract Documents.

1.04 GENERAL PROJECT SEQUENCE

- A. The follow is a suggested general sequence of construction.
 1. *Clean, prep and paint interior surfaces of tank and dry riser, including ladder rung replacement and all sealing and welding
 2. Install new insulation on inlet/outlet pipe in dry riser
 3. Install new safety climb systems on ladders
 4. Install new flap valve on overflow pipe and new screens on overflow pipe and roof vent
 5. *Clean, prep and paint exterior surfaces of tank, including all sealing and welding
 6. Tank sterilization
 7. Installation of fencing
 8. Re-grading and re-surfacing of existing gravel access drive, site cleanup

**Note that Contractor should plan to accommodate 8-10 1-day site inspections during the interior and exterior tank prepping and painting processes.*

1.05 GENERAL REQUIREMENTS

- A. Smoking and Fire Precautions: No smoking, fire, or use of any fire or explosion producing tools or equipment shall be permitted on the premises or at any locations where such may endanger said premises or the current operations thereon.
- B. Manufacturers Qualifications: The manufacturers of all materials and equipment used must be reputable and regularly engaged in the manufacture of the particular material or equipment for the use and service to which it will be subjected.
- C. Contractor Shall Pay for All Laboratory Inspection Service: All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards. The laboratory or inspection agency shall be selected by the Contractor and approved by the Engineer and/or Owner. Contractor to pay for all laboratory inspection services as a part of the Contract. Submit all material test reports to the Owner in triplicate.
- D. Compliance With State and Local Laws: Comply with all applicable requirements of state and local laws and ordinances to the extent that such requirements do not conflict with federal laws or regulations.
- E. 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 structures or vehicles damaged by the painting work and all plantings, including grass or sod on the site of the work. Leave the site in original or better condition after all cleanup work has been done.
- F. Markers: Preserve all USGS, TVA, State of Kentucky, Caldwell County, City of Princeton 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.
- G. 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.
- H. Approved Chemicals: All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, reactant, or of other classification, must show approval of either EPA or USDA. The use of all such chemicals and the disposal of residues shall be in strict conformance with instructions

- I. Preservation of Existing Vegetation: Take reasonable care during construction to avoid damage to vegetation. Where the area to be excavated is occupied by trees, brush, or other uncultivated vegetable growth, clear such growth from the area, and dispose of it in a satisfactory manner. Leave undisturbed any trees, cultivated shrubs, flowers, etc., situated within public rights-of-way and/or easements through private property but not located directly within excavation limits. Transplant small ornamental trees, cultivated shrubs, flowers, etc., located directly within excavation limits so they may be replaced during property restoration operations. Do not remove or disturb any tree larger than 6 inches in diameter without the permission of the Engineer. Take special precautions (including the provision of barricades and the temporary tying back of shrubbery and tree branches) for the protection and preservation of such objects throughout all stages of construction; the Contractor will be held liable for any damage that may result to said objects from excavation or construction operations. Trim any limbs or branches of trees broken during construction operations with clean cut, and paint with an approved tree pruning compound. Treat tree trunks receiving damage from equipment with a tree dressing.

- J. Utilities: The Contractor is to contact the Owner of all underground utilities before beginning construction in the area. Contractor shall determine exact location of all existing utilities prior to beginning construction in accordance with Kentucky State Law. Carefully protect from damage all utilities in the vicinity of the work at all times. If it is necessary to repair, remove, and/or replace any such utility in order to complete the work properly, do so in compliance with the rules and regulations of the particular utility involved. Any such work shall be considered incidental to the construction of repairs of utility lines, and no additional payment will be allowed therefore.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION

N/A

END OF SECTION