

## **SECTION 23 13 24**

### **TEMPORARY ABOVEGROUND FUEL STORAGE**

#### **PART 1 - GENERAL**

##### **1.1 DESCRIPTION**

- A. Work Included: Provide all labor, materials and equipment necessary to complete the work of this section.
- 1. Furnish and install two double-walled, temporary aboveground fueling tanks, one for diesel fuel and one for gasohol. The temporary diesel tank shall have a maximum capacity of 500-gallons, unless otherwise approved by the Contracting Officer and the temporary gasohol tank shall have a maximum capacity of 250-gallons, unless otherwise approved by the Contracting Officer. Temporary tank location is noted on L-0.1 ('Temporary Fueling Station').

##### **1.2 RELATED WORK**

- A. Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS
- B. Section 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

##### **1.3 SUBMITTALS**

- A. Refer to Section 01 33 23 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
- B. Manufacturers' Literature and Data:
  - 1. Full details of all components of the systems from the manufacturer, with installation recommendations.

##### **1.4 QUALITY ASSURANCE**

- A. Contractor shall guarantee against defects in equipment and installation and provide any necessary service required during the tanks use.
- B. Temporary aboveground storage tank shall be inspected when they are first delivered on the site and before they are installed to verify that they are not visibly damaged and that their coatings are intact.

## 1.5 REFERENCE STANDARDS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. Underwriters Laboratories, Inc. (UL):
  - 142 .....Steel Aboveground Tanks for Flammable and Combustible Liquids
  - 2085 .....Protected Insulated Aboveground Tanks for Flammable and Combustible Liquids
- C. National Fire Protection Association (NFPA):
  - 30-12 .....Flammable and Combustible Liquids Code
  - 30A-12 .....Motor Fuel Dispensing Facilities and Repair Garage
  - 70-11 .....National Electrical Code
  - 780-11 .....Standard for the Installation of Lightning Protection Systems
- D. Petroleum Equipment Institute (PEI):
  - RP 200-13 .....Recommended Practice For the Installation of Aboveground Storage Systems for Motor-Vehicle Fueling
- E. The California Air Resource Board:
  - Aboveground Filling/Dispensing Vapor Recovery
- F. State of New York Fire Code:
  - Chapter 22 .....Motor Fuel Dispensing Facilities and Repair Garages
  - Chapter 34 .....Flammable and Combustible Liquids Code
- G. Sanitary Code of Suffolk County
  - Article 12 .....Toxic and Hazardous Materials Storage and Handling Controls

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. GENERAL
  - 1. The temporary aboveground fuel storage tank systems shall consist of double-walled steel tanks constructed to the UL 142 standard and designed for the storage of flammable and combustible liquids at atmospheric pressure. The entire tank

system shall be factory fabricated as a single unit and delivered to the job site as a complete assembly. Secondary containment shall be a minimum 110% of the primary containment volume.

**B. ACCESSORIES**

1. The temporary fueling tanks shall be equipped with the following components. Each component shall be installed in accordance with manufacturer's recommendations and applicable codes, standards, and regulations.
  - a. Spill / Overfill Container
  - b. Tight-fill adaptors
  - c. Overfill prevention valve
  - d. Overfill prevention alarm (may be a vent whistle)
  - e. Tank-mounted pump with hose and nozzle
  - f. Stage I vapor recovery connection (for gasohol)
  - g. Mechanical site gauge
  - h. Normal venting and emergency venting as required by NFPA 30 and 30A.
  - i. Tank labeling shall include: capacity, contents, No Smoking, NFPA Hazard Diamond, and any additional signs, labels, and/or markings as required by applicable codes/regulations.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. The tank system including accessories shall be installed in strict accordance with the manufacturer's recommendations, applicable fire and environmental codes. All state and local permits shall be obtained by contractor prior to installation.
- B. The Contractor shall furnish without any extra charge any additional material and labor when required for compliance with these codes, rules and regulations.
- C. Each aboveground storage tank shall be inspected when they are first delivered to the site and before they are installed to verify that they are not visibly damaged.
- D. All aboveground storage tanks shall be tested as per manufacturer's written instructions prior to installation.
- E. Tanks shall be installed on the asphalt-paved employee parking area, southeast of the Administration Building. Specifically, the

temporary tanks shall be installed in the southern most parking stall, located near the temporary office trailers.

- F. Concrete highway dividers (Jersey Barriers) or other means shall be provided to protect tanks from vehicular damage.
- G. The Contractor shall provide two fire extinguishers in the vicinity of the tanks. The fire extinguishers shall have a rating of 4A:80B:C and a 10 pound capacity.
- H. Electrical work shall be in accordance with applicable codes and shall be rated for hazardous area as required. Tanks shall be electrically grounded in accordance with NFPA 780 and NFPA 70 (National Electrical Code).
- I. The contractor shall install the necessary conduit and wiring to provide power to the temporary fuelling tanks. Power shall be obtained from the same source providing power to the temporary office trailers.
- J. Equipment used to off-load the tank shall be of adequate capacity to prevent dragging or dropping of the tank system. The tank shall be carefully lifted and lowered onto the concrete pad with cables or chains of adequate length attached to the lifting lugs provided. A spreader bar shall be used where necessary. Do not use slings, chains or cable around the tank to lift it. Do not drop, roll, or drag tank.
- K. Contractor shall transfer fuel from existing on-site underground fuel storage tanks to the temporary fuel tanks. The Contractor is responsible for maintaining an adequate supply of fuel within the temporary fuel tanks. Fuel within the temporary tanks is for Cemetery use only.
- L. Perform start-up/operational testing wherein the entire fuel system shall be exercised. The scheduling of this testing shall be coordinated with the Contracting Officer.
- M. The system installation shall be inspected and approved by the system supplier or its certified contractor. The system supplier shall submit a comprehensive checklist of quality and safety items critical to the system and verify that the installation has been in accordance with these standards and applicable fire and environmental codes.

- N. Upon successful installation and start-up of the new permanent aboveground fuel storage and distribution tanks, the Contractor shall, immediately remove the temporary fueling systems from the property. The Contractor is responsible for all disassembly and transportation of temporary fueling tanks.
- O. If requested by the Contracting Officer, The Contractor shall transfer any remaining fuel within the temporary tanks to the new AST systems.

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