

Scope of Work

Project Number: 437-24-101

Project Title: Replace UST and Leak Detection

A. General Intention

The Contractor shall furnish all labor, materials, and equipment to replace existing UST's (Underground Storage Tank) #1, #2, #3, #4, #8, existing AST's (Aboveground Storage Tank) #4, and #5, along with existing #1, #2, #3, #4, #8, #9 and #10 UST interconnected below-grade piping systems on the Fargo VA campus including designing flexible spill containment liners, tertiary containment barriers, encasement barriers, waterproof manway covers, and Auto Tank Gauges (ATG) with integrated monitoring and reporting. Environmental assessments, soil boring tests and geotechnical drilling at four VA site locations required, along with compliance with physical security and resiliency standards for intrusion and blast protection. A phasing plan to ensure zero downtime for existing backup generators with temporary power solutions shall be proposed & followed. Additional work includes cathodic protection system design, semi-automatic pump clarification systems, and establish control points for future construction.

B. Statement of Work

Description of Work: Work shall include, but shall not be limited to, providing all labor, materials, equipment, etc. necessary to complete Fargo VA Health Care System project 437-24-101, Replace UST's & Leak Detection in accordance with this Scope of Work. The UST's support Critical Facilities and will follow requirements for Critical facilities in accordance with the Physical Security and Resiliency Design Manual (PSRDM), October 1, 2020, Revised 05-01-2024, the contract documents, all applicable federal, state and local codes as well as the NFPA requirements.

The construction work schedule shall account for and ensure that the VA is Minimally impacted in terms of services provided to our customers, as well as any coordination with other contractors on site.

Work hours between 6 AM – 6 PM shall be preferred and required whenever possible to minimize disruptions to hospital services with Holidays as needed.

All fuel & boiler shutdowns shall have 3-week notification and approval prior to date of shutdown to allow for notification of affected staff. Preprint Total project timeline is estimated at approximately 18 months, encompassing pre-construction planning, environmental review, construction & remediation, and

final reporting. Adjustments may be made based on site conditions, weather, permitting processes, and coordination with concurrent VA projects.

Lock Out Tag Out (LOTO) procedures shall be required for all utility testing, and some tests may require confined/enclosed space work conditions and training.

C. Civil

Refer to Cost-Free Design Analysis – Pages 4-5

D. Physical Security and Resiliency

Refer to Cost-Free Design Analysis – Pages 5-10

E. Mechanical

Refer to Cost-Free Design Analysis – Pages 10-12

F. Electrical

Refer to Cost-Free Design Analysis – Pages 12-13

G. Environmental/Geo Tech

Refer to Cost-Free Design Analysis – Pages -13-15

H. Deviations from SOW

Refer to Cost-Free Design Analysis – Pages 15-16

***See attachment G- Cost-Free Design Analysis for information on above.*

I. Period of Performance

Coordinate work times with the COR. Submit daily logs to COR for progress tracking, see attachment for sample daily log reporting. Below represents an approximate schedule for the Period of Performance.

Item	Day
Contract Award	D
Pre-construction Conference	D+10
Notice to Proceed	D+15
Badging/Background Check Start	D+30
Submittals Due	D+45
Long-Lead Items Ordered	D+57
Badging/Background Check Completion	D+57
Mobilization	D+57
Construction Start	D+60
Construction Completion	D+540

Duration of Work: 540 days; 525 days after NTP.

J. Specifications

Division 00 – Special Sections

00 01 15 – List of Drawing Sheets

Division 01 – General Requirements

01 00 00 – General Requirements

01 33 23 – Shop Drawings, Product Data, and Samples

01 35 26 – Safety Requirements for Major Projects

01 45 29 – Testing Laboratory Services

01 57 19 – Temporary Environmental Controls

01 74 19 – Construction Waste Management

01 81 13 – Sustainable Construction Requirements

01 91 00 – General Commissioning Requirements

Division 02 – Existing Conditions

02 41 00 – Demolition

02 65 00 – Underground Storage Tank Removal

Division 03 – Concrete

03 30 00 – Cast-in-Place Concrete

Division 07 – Thermal and Moisture Protection

07 84 00 – Firestopping

07 92 00 – Joint Sealants

Division 23 – Heating, Ventilating, and Air Conditioning (HVAC)

23 05 10 – Common Work Results for Boiler Plant and Steam Generation

23 08 00 – Commissioning of HVAC Systems

23 10 00 – Facility Fuel Systems

Division 26 – Electrical

26 05 11 – Requirements for Electrical Installations

26 05 19 – Low-Voltage Electrical Power Conductors and Cables

26 05 26 – Grounding and Bonding for Electrical Systems

26 05 33 – Raceway and Boxes for Electrical Systems

26 05 41 – Underground Electrical Construction

26 08 00 – Commissioning of Electrical Systems

26 27 26 – Wiring Devices

26 42 00 – Cathodic Protection

Division 27 – Communications

27 05 11 – Requirements for Electrical Installations

27 05 26 – Grounding and Bonding for Electrical Systems

27 05 33 – Raceway and Boxes for Electrical Systems

27 08 00 – Commissioning of Communications Systems

27 10 00 – Control, Communication and Signal Wiring

Division 31 – Earthwork

31 20 00 – Earthwork

Division 32 – Exterior Improvements

32 05 23 – Cement and Concrete for Exterior Improvements

32 12 16 – Asphalt Paving

32 17 23 – Pavement Markings

K. Drawings

437-24-101 Preliminary Drawings

G-0.00	Cover Page
G-0.02	Location Map and Contractor Staging Plan
G-1.00	PCRA Plan
G-2.00	UST 1, 2 & 3 Contamination Area Plan & Profile
C-1.0	Existing Condition / Utility Plan
C-2.0	Erosion control / Utility Plan
C-3.0	Grading Plan
C-4.0	Paving Plan
C-5.0	Details
S-1.00	Retaining Wall and Sidewalk Plans
M-0.00	Mechanical Cover Sheet
M-0.10	Site Plan
M-0.20	Mechanical Schedules & Details
M-0.30	Mechanical Details
MD-1.00	Underground Storage Tanks 1, 2 &3 Demolition Plan
MD-1.01	Underground Storage Tank 4 Demolition Plan
MD-1.02	Underground Storage Tank 8 & AST 3 Demolition Plan
MD-1.03	Aboveground Storage Tanks 4 & 5 Demolition Plan
M-1.00	Underground Storage Tanks 1, 2 & 3 New Plan
M-1.01	Underground Storage Tank 4 New Plan
M-1.02	Underground Storage Tank 8 & AST 3 New Plan
M-1.03	Aboveground Storage Tanks 4 & 5 New Plan
E-0.0	Electrical Legends and Abbreviations
E-0.1	Electrical Schedules and Details
E-1.0	Electrical Floor Plans
E-1.1	UST 6 and 8 Electrical Floor Plan Details
E-1.2	UST 9 and 10 Electrical Floor Plan Details
E-1.3	Boiler Plant Electrical Floor Plan Details
E-1.4	Cathodic Protection

L. Submittals

- a. Daily Logs**
- b. Submittals for all associated Scope of work**
 - i. Product Data**
 - ii. Product Samples (e.g. cables, fuses, breakers)**
 - iii. As-built drawings (e.g. one-line diagrams, locations, and labels for equipment)**
 - iv. Certification Report(s)**
 - v. Testing Reports (including deficiencies) – Soil Borings**
 - vi. Progress Documentation (see example below)**
 - vii. Warranties of installation and equipment**
 - viii. Operation and Maintenance Manuals**

M. Project Completion

The contract shall not be closed by the Contracting Officer until after the station's go-live date if additional equipment or needs are identified through coordination with the COR.

If additional equipment or needs are identified, a modification shall be negotiated for the additional work.

The above paragraphs constitute a basic outline of the work to be accomplished and in no way comprises all the details for this project. Contractor shall refer to drawings and specifications for comprehensive construction requirements.

End of SOW