


SOW APPROVAL SHEET

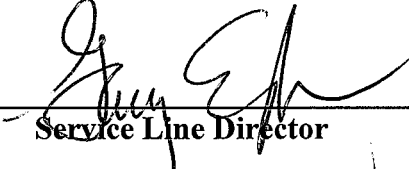
Project Title: Install Legionella Prevention
Project Location: St. Cloud VA Health Care System
Project Number.: 656-16-284
Date: February 18, 2021

This Scope of Work shall not be considered a valid document unless all signatures appear in each designated area below.


The client Agency approval signature on this page indicates that they reviewed the design criteria and construction schedule described in this project Scope of Work and verifies that the work will not conflict with the existing or future construction activities of other projects at the site.

SOW PREPARED BY: 
Michael J. Engmark
Contracting Officer's Representative

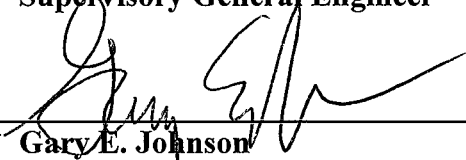
02/18/21
Date

SOW APPROVED BY: 
Service Line Director

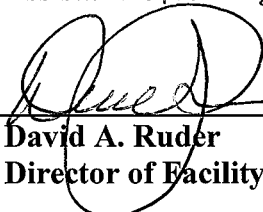
2/18/21
Date

SOW APPROVED BY: 
Justin A. Lappin
Supervisory General Engineer

2/18/21
Date

SOW APPROVED BY: 
Gary E. Johnson
Assistant Chief Engineer

2/18/21
Date

SOW APPROVED BY: 
David A. Ruder
Director of Facility Management

2/18/21
Date

SCOPE OF WORK
CONSTRUCT “INSTALL LEGIONELLA PREVENTION”
PROJECT #656-16-284
ST CLOUD VA HEALTH CARE SYSTEM
February 18, 2021

A. GENERAL

1. **Base Project:** The Contractor shall provide all labor, materials and equipment to accomplish the “INSTALL LEGIONELLA PREVENTION” project per construction drawings and specifications. The project shall be accomplished per contract drawings, and specifications numbered 656-16-284. Work is designed to complete Directive 1061 upgrades to existing plumbing systems within Buildings 2, 28, 49, 50, 51, and 115 within the St Cloud VA Campus. Work includes increasing domestic hot water system circulation temperature to above 134 degree while adding mixing valves, or faucets with built-in scald protection per ASSE 1070, at all points of use to protect patients and staff. Eliminate dead leg piping and abandoned fixtures and installation of a new Master Sensor on incoming domestic water service for each building along with associated integration into Building Automation System (BAS). New master sensor shall continually monitor, and provide notification alarms for the following parameters – Temperature, pH Level, Pressure, Total Dissolved Solids (TDS), and Free Chlorine Level. Contractor shall note that each building is occupied by patients on a 24/7 basis and so that additional precautions will need to be taken in both maintaining dust/debris for infection control, and limiting hours of activities causing disruptive noise or vibration This work includes, but is not limited to:
 - a. Demolition: Demo assemblies as indicated on the contract documents, shop drawing coordination and as required for means and methods for coordination of new assemblies.
 - b. Contractor shall remove from the VA site and dispose of all equipment and materials not scheduled to be reused.
 - c. New construction consists of, but is not limited to:
 1. Construction assemblies as indicated in the construction documents and via shop drawing process to install legionella prevention
 - d. PHASING, OFF-HOURS WORK, OR MAJOR SHUTDOWNS:
 1. This project requires special attention to phasing/scheduling, off-hours work, working on one CLC and one MH building at a time, one floor and one room at a time, maintain construction barriers including ICRA requirements, coordinating work with VA occupied and unoccupied spaces, and protecting existing conditions.
 2. Contractor to expect work during business hours, prior to business hours, off business hours, and weekend work during this contract. The contractor is required to plan their means and methods and their scheduled work according to the contract documents.

3. Contractor shall include off hours' time based on impact to healthcare operations. Unless specifically indicated on the construction documents, all utilities shall remain operational during VA business. Contractor shall plan accordingly.

2. Options:

- a. **Alternate 1:** Base Bid AND Deduct requirement to provide temperature sensors for all recirculation balancing valves replaced in Base Bid of Scope.
- b. **Alternate 2:** Base Bid AND Alternate 1 AND Deduct requirement to replace all existing balancing valves with new circuit setter valves on hot water recirculation system.
- c. **Alternate 3:** Base Bid AND Alternate 1, 2 AND Deduct cold water recirculation system modifications and associated equipment installation.
- d. **Alternate 4:** Base Bid AND Alternate 1, 2, 3 AND Deduct deluxe thermal flush system modifications. Note that a simplified flushing method would be required for installation to replace this function, see building specific drawings for additional information.
- e. **Alternate 5:** Base Bid AND Alternate 1, 2, 3, 4 AND Deduct scope of water tower modifications, show on drawing 86-PL500, to help circulation system and provide more reliable depth monitoring.

B. COVID 19

1. Contractors shall adhere to the hospital's requirement for the wearing of cloth masks and Personal Protective Equipment (PPE). Contractors are held to the same standards as employees. The VA does NOT provide the contractors PPE or cloth masks.

C. SCHEDULE.

The anticipated substantial completion of this project is 620 calendar days after "Notice to Proceed" (NTP).

Contract award*	D
Pre-construction conference	D + 18
Notice to Proceed	D + 25
Construction start	D + 92
Construction completion	D + 645

D. MAGNITUDE OF CONSTRUCTION

The anticipated cost range for this project is between \$2,000,000 and \$5,000,000

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