

**Statement of Work (SOW)**  
**VA Medical Center, White River Junction, Vermont**

**BACKGROUND:**

Removal of a 3 Ton Computer Room AC (CRAC) unit and remote condenser, replacement with a new 12 Ton CRAC utilizing the Liebert DS Series, GLYCOOL Coil CRAC as the basis of specification. Unit to be installed in the B1 Server Room and adjacent rooftop mechanical platform at White River Junction VA Medical Center

**STATEMENT OF WORK:**

Provide all labor, equipment and material, to complete the following:

- Removal and disposal of existing 3 Ton Computer Room AC unit and remote condenser. Including removal of the existing electrical feed (cable, conduit, wire mold, back to source panel "P2" in room 265-1. Patch all holes and walls as required. Patch dropped ceiling grid and tiles above retired unit; approximately 4ft x 10ft.
- Furnish and install new raised flooring panels and support frame in the existing opening across the room from the new proposed AC unit – to contain the cold air under the floor. Cut, patch and piece to finish off the rough opening as required. Approximate area is 4 ft x 11ft.
- Preparation of existing roof top mechanical platform, which may include the extension to accommodate a longer remote condenser unit.
- Preparation of server room to accept new unit, which may include raised floor and ceiling grid modifications.
- Installation of a 12 Ton CRAC, including new piping, electrical, interfaces with existing BAS and fire alarm system. Furnish and install new 480 Volt power supply from panel "P3B"; in room 336-1.
- Integration of existing Liebert unit with existing BAS for full control and monitoring.

**OTHER CONSIDERATIONS FOR PROPOSAL**

1. Perform work in compliance with Specifications:  
01 00 00 - General Requirements
2. The Contractor shall arrange for all waste to be recycled or disposed of in accordance with all Federal, State, or local laws and regulations.
3. Bidders must submit a copy of the following as part of their bid:
  - Safety Plan.
  - Scaffolding and/or rigging plans.
  - Respiratory Protection Program (or, if a subcontractor is removing the existing insulation containing mold, the subcontractor's Respiratory Protection Program).

4. Additionally, the following must be submitted and approved by the VA before the contractor begins work on site:
  - Activity Hazard Analysis (AHA). A blank AHA form is available at [http://www.swf.usace.army.mil/pubdata/safety/PDF/blank\\_AHA\\_Form.pdf](http://www.swf.usace.army.mil/pubdata/safety/PDF/blank_AHA_Form.pdf).
  - Schedule.
  - Material Safety Data Sheets (MSDS) for any hazardous materials to be brought on site.
5. The provisions of all applicable NFPA, OSHA, EPA, and VA codes, Federal, State, and local regulations shall be followed throughout the course of this project. Applicable VA publications and design manuals are available to the successful bidder at [www.va.gov/facmgt](http://www.va.gov/facmgt).
6. The provisions of Specification 01 00 00, General Requirements, shall be followed at all times.

#### **REQUIREMENTS:**

1. Submit the following for approval, prior to start of construction:
  - Schedule
  - System drawings
2. All the work shall be performed to industry standard, or better, by qualified personnel and in conformance with VA standards and Vermont requirements.
3. Personnel shall be fully licensed or certified for the trades being performed where these trades are licensed by the Vermont or by the governing association for that trade or specialty. Submit documentation on licenses or certifications on request.
4. Safety and Health:
  - All project personnel working on site are required to have safety training appropriate to their work. A minimum of the ten hour (10 hour) OSHA class is required for all construction personnel working on site.
  - The Contractor is required to have a Competent Person, as defined by OSHA, on site at all times while any work is in progress.
  - Contractor and all Subcontractors shall comply with all VA safety and health Policies, including but not limited to:
    - a. Personal Protective Equipment
    - b. Fire Safety and Hot Work permits
    - c. Lock Out/Tag Out
    - d. Confined Space Entry
    - e. Fall Protection
    - f. Electrical Safety
    - g. Trenching and excavation safety, OSHA 1926
    - h. Hazardous Materials/Workers Right to Know Act
    - i. Penetration Permits, assuming FRR separation may be in place prior to this work
    - j. Security - including badges, keys, and parking.
  - Documentation of compliance, including Daily Reports, will be required.
  - Submit training and other advance documentation before start of work and prepare other reports daily for each day that work is underway.
5. Personal Identity Verification of Contractor Personnel (October 2006)

- A. The Contractor shall comply with agency personal identity verification (PIV) procedures identified in the contract that implemented Homeland Security Presidential Verification Directive-12 (HSPD-12), Office of Management and Budget (OMB) guidance M-05-24, and Federal Information Processing Standards Publication (FIPS PUB) Number 201.
  - B. The Contractor shall insert this clause in all subcontracts when the subcontractor is required to have physical access to a federally-controlled facility or access to a Federal information system.
  - C. This PIV process typically requires all workers to complete forms in advance of entering the VA Medical Center, to present two official forms of identification, to submit finger prints and background checks, etc depending on the nature of the project and the length of construction. The approval process typically requires five business days before access can be approved.
6. Waste Disposal/Recycling:
  - All metal suitable for recycling shall be placed in the metal trailer by the loading dock of B-31.
  - Hazardous waste resulting from the demolition, if any, shall be delivered to VA building 46 under the supervision of the COTR or GEMS coordinator.
  - Other Hazardous waste, if any, shall be correctly disposed of by the Contractor at no additional cost to the VA (provide a copy of the manifest, and other documentation to COTR).
  - Other waste including rubbish and C&D - The Contractor, at no cost to the VA, shall properly dispose of (construction and demolition) debris off site.
  - Store, label waste and containers and dispose of waste in full compliance with EPA, NFPA and VT AEC requirements.
7. An MSDS shall be maintained at the work site for all chemicals and hazardous materials brought onto the VA property. Employees using such materials shall use required PPE and shall be familiar with the hazards, disposal, storage and emergency response including spill and fire procedures, etc. Contractor is responsible for compliance with EPA and VT requirements related to use, storage, disposal and emergency response including spill and fire procedures, etc. for all hazardous materials utilized in this project.
8. Work is to be done during normal working hours. Weekend and Night work may be allowed with advance written request, subject to availability of VA staff to observe operations.
9. Contractor is responsible for providing and installing all required system components, fastening, miscellaneous hardware and construction materials, including any building materials required for patching/painting/touch up/restoration.
10. Where applicable, in advance of construction, submit shop drawings, catalog cuts, manufacturer's literature, installation instructions, wiring and piping diagrams, control prints, recommended spare parts lists and O&M manuals for equipment and materials to be incorporated into the work for approval. At the completion of the work and before acceptance, Contractor is to submit three (3) sets of all of the above plus any as-built changes, as applicable, in three (3) ring binders.
11. Cleanup & protection:
  - Work sites to be protected during construction to minimize damage to VA property, furnishings, etc.
  - Work sites to be regularly cleaned and kept free of waste and hazards

- At completion of work, and prior to acceptance, the interior and exterior of equipment, panels, etc. and the work site shall be thoroughly cleaned of all construction scraps, dirt, dust, etc.
12. Restoration - Cleanup & protection:
- Any damage to finished surfaces shall be replaced or repaired to a condition equal, or better than current conditions.
13. Warranty:
- Work is to be guaranteed for 100% of all labor and materials for a period of one (1) year from the date of completion or acceptance, whichever is later. Contractor shall promptly repair or replace any portion of the work or equipment which fails within this time period, except in the case of VA abuse, VA failure to follow minimum operations and maintenance requirements that have been specifically outlined by the contractor and conveyed in the documentation at acceptance, or by acts of God.
  - If manufacturer's warranty exceeds one year then contractor shall extend guarantee for the same period for only that equipment or materials.

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