

**SCOPE OF WORK
CONSTRUCT “UPGRADE CATHETERIZATION LAB 1”
PROJECT NO. 618-CSI-145
MINNEAPOLIS VA MEDICAL CENTER**

A. PART I - GENERAL

A1. Scope of Contract

1. **Base Bid:** The Contractor shall provide all labor, materials and equipment to accomplish the “Upgrade Cath Lab 1” project per construction drawings and specifications. The project shall be accomplished per contract drawings numbered 1318 and specification number 618-CSI-145. This work includes, but is not limited to:
2. **Demolition:** The existing x-ray equipment is scheduled to be removed under a separate contract. The conduits, gutters, raceways and power that supported the existing x-ray equipment shall be removed as part of the Upgrade Cath Lab 1 project. Demolition or modifications to the existing structural strut system that will support the new x-ray equipment will be raised and leveled to meet the requirements of the new x-ray equipment. Demolition of HVAC systems, electrical systems, low voltage systems, flooring, casework, ceilings, walls and doors will be required as part of this project. The contractor shall remove from the VA site and dispose of all equipment and materials not scheduled to be reused.
3. **New construction consists of, but is not limited to:**
 - a. The project will include raising and leveling of the existing structural strut system as required by the x-ray equipment vendor. New power distribution will be required including a new electrical isolation distribution panel to match the existing panel in the room. A new dimmable lighting system will be installed as part of the project.
 - b. The contractor will be responsible for purchasing and installing a new medical equipment boom that will include medical gases, emergency/normal power and UTP Cat 6A cabling/jacks. See boom vendor equipment drawings and project drawings for the full extent of the requirements for the installation of the boom.
 - c. The contractor shall review the “Philips Allura FD20” equipment drawings and the project drawings and include all items required to support the installation of the new Philips x-ray equipment. The new X-ray equipment will be installed by

Philips. After the installation of the equipment the Contractor shall return and complete the final electrical terminations to the new x-ray equipment.

- d. New flooring, ceilings, finishes, casework, doors/windows, walls and other miscellaneous items will be included as part of the Upgrade Cath Lab 1 project.
- e. The existing walls in Cath Lab 1 are plaster and lined with lead to seven feet above the finished floor. The Contractor will be required to repair existing lead lining to match existing thickness in all walls disturbed during construction. Installation of new lead will be required in new walls scheduled to be built as part of the project. All new perimeter doors around Cath Lab 1 shall require lead in both the door and the frame.
- f. Plumbing will include demolition of and installation of medical gases, medical gas outlets, medical gas alarm panels, demolition of a natural gas line back to the riser. Modifications and demolition of existing domestic potable water/vent/waste lines will be required. A new ice machine shall be supplied and installed by the Contractor as part of the project. The General Contractor shall coordinate the purchase and installation of the ice machine.
- g. HVAC will include the demolition of existing ducts and terminal boxes and reheat piping to terminal boxes. New ducts, terminal boxes and reheat piping will be required per contract drawings and specification. See controls for specified control and monitoring of room pressures, temperatures and humidification. NOTE: All duct piping to diffusers in Cath Lab 1 shall be hard piped to the diffusers. Flexible ducting of any type will not be allowed in Cath Lab 1.
- h. See drawings for the demolition of an existing computer room air condition (CRAC) unit and the installation of a new CRAC unit at a new location.

4. Phasing, Work Hours and Shutdowns:

- a. Phases – One
- b. Work hours shall be between 6:00 a.m. and 4:30 p.m.
- c. Noise producing activities such as hammer drilling shall be completed before 7:00 a.m. unless approved by the COR.
- d. Shutdowns: Shutdowns shall be coordinated with the COR. Contractor shall provide a written 30 day notice for shutdowns which affect patient care. Sprinkler shutdowns shall have a minimum notice of 48 hours (work days).

5. **CLIN Options (Contract Line Item Numbers):**

- a. **Add Option No. 1 – Door Replacement:** All new doors to be impact resistant wood doors, finish DR1 and lead-lined where shown. Existing frames to remain where indicated.

Base Bid: New lead-lined doors to be hollow metal. Lead-lined door finish P5.

All other doors to be wood, finish ST1, existing frames to remain where indicated.

Refer to floor plan and door and frame schedule for additional information.

- b. **Add Option No. 2 – Stainless Steel Cabinets:** Provide stainless steel cabinets in Cath Lab 1, 3J-103. Refer to specifications for additional information.

Base Bid: Provide powder coated metal cabinets in Cath Lab 3J-103. Refer to specifications for additional information.

- c. **Add Option No. 3 - Hot Water Circulating Balancing Valve:** Replace existing domestic hot water circulation line balancing valves. Work shall be done after 8:00 p.m. Monday through Friday or on weekends.

A2. Tentative Schedule: 120 Calendar Days

Contract award*	D
Pre-construction conference	D+7
Notice to Proceed	D+12
Construction start	D+22
Construction completion	D+132

- 1. Schedule Objectives - The anticipated substantial completion of this project is 120 calendar days from the "Notice to Proceed" (NTP) with the contractor returning for final electrical terminations after the installation of the x-ray equipment and booms.

A3. Project Magnitude - Per VAAR Part 836.204

The anticipated "Magnitude of Construction" for this project is "Between \$500,000 and \$1,000,000." (Note: The Project Magnitude is provided as a tool to assist the Contractor with projecting bonding capacity. It is **NOT** an indicator of available funding.)

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