

SECTION 01010 GENERAL REQUIREMENTS

1.1 GENERAL INTENTION

- A. Addition of a Trans logic Tube system to the 2nd floor between the radiology waiting room 2255 hallway and into room 2543C. Flush mount tube station with additional carriers.

1.2 STATEMENT OF BID ITEM(S)

- A. ITEM 1, Contractor shall completely prepare site for building operations, including demolition and removal of existing structures, and furnish labor and materials and perform work for _addition of one CTS-630 ESP Pneumatic Tube System into room 2543C. Installation of real property, a trans logic system, from the 2nd floor hallway adjacent to room 2255 (Radiology waiting room) through the ceiling of the room 2349 west to the hallway. North through the smoke door partitions in the ceiling to the elevator alcove of elevators 9 and 10 continuing in the ceiling to room 2543C. Tube system to be located on the West wall. The engineering department will provide Electrical connections as well as wall modification for the CTS-630 ESP. Contractor will supply 3 additional Eco Seal Carriers or equivalent, CTS-630 station will be recessed into the wall. Contractor will run and supply all pneumatic pipe, communication cable (Plenum), all fire caulk (2 hour rating) for all wall penetrations. All Ceiling tile must be re-installed. No ceiling tile left out unattended. Only 6 tiles at one time can be removed. Contractor to sign and fill out penetration sheet in the Engineering Office room B801. Identification Badge will be supplied by the Engineering department and must be worn at all times. Any change orders will be provided by the COR assigned to the project. No additional work will be performed outside the contract without authorization in writing by the Contracting officer. All work will be reviewed by the COR prior to acceptance. All questions, concerns or other must be given to the COR for review and approval of the Contracting Officer assigned.

1.3 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

- A. AFTER AWARD OF CONTRACT, 5 sets of specifications and drawings may be furnished.
- B. Additional sets of drawings may be made by the Contractor, at Contractor's expense, from reproducible sepia prints furnished by Issuing Office. Such sepia prints shall be returned to the Issuing Office immediately after printing is completed.

1.4 FIRE SAFETY

- A. Applicable Publications: Publications listed below form part of this Article to extent referenced. Publications are referenced in text by basic designations only.
 - 1. American Society for Testing and Materials (ASTM):
 - a. E84-2005 Surface Burning Characteristics of Building Materials
 - 2. National Fire Protection Association (NFPA):
 - a. 10-2002 Standard for Portable Fire Extinguishers
 - b. 30-2003 Flammable and Combustible Liquids Code

- c. 51B-2003 Standard for Fire Prevention During Welding, Cutting and Other Hot Work
- d. 70-2005 National Electrical Code
- e. 241-2004 Standard for Safeguarding Construction, Alteration, and Demolition Operations
- 3. Occupational Safety and Health Administration (OSHA):
 - a. 29 CFR 1926 Safety and Health Regulations for Construction
- B. Site and Building Access: Maintain free and unobstructed access to facility emergency services and for fire, police and other emergency response forces in accordance with NFPA 241.
 - 1. Close openings in smoke barriers and fire-rated construction to maintain fire ratings. Seal penetrations with listed through-penetration firestop materials in accordance with Section 07270, FIRESTOPPING SYSTEMS.
- C. Means of Egress: Do not block exiting for occupied buildings, including paths from exits to roads. Minimize disruptions and coordinate with Project Manager and facility Safety Officer.
- D. Fire Extinguishers: Provide and maintain extinguishers in construction areas and temporary storage areas in accordance with 29 CFR 1926, NFPA 241 and NFPA 10.
- E. Flammable and Combustible Liquids: Store, dispense and use liquids in accordance with 29 CFR 1926, NFPA 241 and NFPA 30.
- F. Existing Fire Protection: Do not impair automatic sprinklers, smoke and heat detection, and fire alarm systems, except for portions immediately under construction, and temporarily for connections. **Provide fire watch for impairments more than 4 hours** in a 24-hour period. Smoke Detectors: Prevent accidental operation. Remove temporary covers at end of work operations each day. Coordinate with Project Manager and facility Safety Officer.
- G. Hot Work: Perform and safeguard hot work operations in accordance with NFPA 241 and NFPA 51B. Coordinate with Project Manager. Obtain permits from facility COR at least 24 hours in advance. Designate contractor's responsible project-site fire prevention program manager to permit hot work.
- H. Smoking: smoking is prohibited except in designated smoking rest areas.
- I. Dispose of waste and debris in accordance with NFPA 241. Remove from buildings daily.
- J. Perform other construction, alteration and demolition operations in accordance with 29 CFR 1926.

1.5 OPERATIONS AND STORAGE AREAS

- A. The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the Contracting Officer. The Contractor shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- B. Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the Government. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.

- C. The Contractor shall, under regulations prescribed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

(FAR 52.236-10)

- D. Working space and space available for storing materials shall be// as determined by the COR. //
- E. Workmen are subject to rules of Medical Center applicable to their conduct.
- F. Execute work so as to interfere as little as possible with normal functioning of Medical Center as a whole, including operations of utility services, fire protection systems and any existing equipment, and with work being done by others. Use of equipment and tools that transmit vibrations and noises through the building structure, are not permitted in buildings that are occupied, during construction, jointly by patients or medical personnel, and Contractor's personnel, except as permitted by Project Manager where required by limited working space.
1. Do not store materials and equipment in other than assigned areas.
 2. Schedule delivery of materials and equipment to immediate construction working areas within buildings in use by Department of Veterans Affairs in quantities sufficient for not more than two work days. Provide unobstructed access to Medical Center areas required to remain in operation.
 3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment will be permitted subject to fire and safety requirements.
- G. Phasing: To insure such executions, Contractor shall furnish the Project Manager with a schedule of approximate phasing dates on which the Contractor intends to accomplish work in each specific area of site, building or portion thereof. In addition, Contractor shall notify the Project Manager two weeks in advance of the proposed date of starting work in each specific area of site, building or portion thereof. Arrange such phasing dates to insure accomplishment of this work in successive phases mutually agreeable to Medical Center Director, Project Manager and Contractor, as follows:
1. **Phase I:** Set up phasing by buildings, wings, floors, or areas in accordance with information received from Medical Center through Project Director.
 2. **Phase II:**

1.6 INFECTION PREVENTION MEASURES

- A. Implement the requirements of VAMC's Infection Control Risk Assessment (ICRA) team. ICRA Group may monitor dust in the vicinity of the construction work and require the Contractor to take corrective action immediately if the safe levels are exceeded.
- B. Final Cleanup:

1. Upon completion of project, or as work progresses, remove all construction debris from above ceiling, vertical shafts and utility chases that have been part of the construction.

1.7 RESTORATION

- A. At Contractor's own expense, Contractor shall immediately restore to service and repair any damage caused by Contractor's workmen to existing piping and conduits, wires, cables, etc., of utility services or of fire protection systems and communications systems (including telephone) which are indicated on drawings and which are not scheduled for discontinuance or abandonment.
- B. Expense of repairs to such utilities and systems not shown on drawings or locations of which are unknown will be covered by adjustment to contract time and price in accordance with clause entitled "CHANGES" (FAR 52.243-4 and VAAR 852.236-88) and "DIFFERING SITE CONDITIONS" (FAR 52.236-2) of Section 01001, GENERAL CONDITIONS.

1.8 TEMPORARY USE OF EXISTING ELEVATORS

- A. Use of existing elevator for handling building materials and Contractor's personnel will be permitted subject to following provisions:
 1. Contractor makes all arrangements with the Project Manager for use of elevators. The Project Manager will ascertain that elevators are in proper condition. Contractor may use elevator No. 5 in Building 1 for daily use during normal duty hours.
 2. Contractor covers and provides maximum protection of following elevator components:
 - a. Entrance jambs, heads soffits and threshold plates.
 - b. Entrance columns, canopy, return panels and inside surfaces of car enclosure walls.
 - c. Finish flooring.

1.9 TEMPORARY TOILETS

- A. Contractor may have for use of Contractor's workmen, such toilet accommodations as may be assigned to Contractor by Medical Center. Contractor shall keep such places clean and be responsible for any damage done thereto by Contractor's workmen. Failure to maintain satisfactory condition in toilets will deprive Contractor of the privilege to use such toilets.

1.10 TESTS

- A. Pre-test mechanical and electrical equipment and systems and make corrections required for proper operation of such systems before requesting final tests. Final test will not be conducted unless pre-tested.
- B. Conduct final tests required in various sections of specifications in presence of an authorized representative of the Contracting Officer. Contractor shall furnish all labor, materials, equipment, instruments, and forms, to conduct and record such tests.

1.11 INSTRUCTIONS

- A. Contractor shall furnish Maintenance and Operating manuals and verbal instructions when required by the various sections of the specifications and as hereinafter specified.
- B. Manuals: Maintenance and operating manuals (four copies each) for each separate piece of equipment shall be delivered to the Project Manager coincidental with the delivery of the equipment to the job site. Manuals shall

be complete, detailed guides for the maintenance and operation of equipment. They shall include complete information necessary for starting, adjusting, maintaining in continuous operation for long periods of time and dismantling and reassembling of the complete units and sub-assembly components. Manuals shall include an index covering all component parts clearly cross-referenced to diagrams and illustrations. Illustrations shall include "exploded" views showing and identifying each separate item. Emphasis shall be placed on the use of special tools and instruments. The function of each piece of equipment, component, accessory and control shall be clearly and thoroughly explained. All necessary precautions for the operation of the equipment and the reason for each precaution shall be clearly set forth. Manuals must reference the exact model, style and size of the piece of equipment and system being furnished. Manuals referencing equipment similar to but of a different model, style, and size than that furnished will not be accepted.

1. 12 SECTION 07 84 00 FIRESTOPPING

1. 13 PART 1 GENERAL

1. 14 1.1 DESCRIPTION

1. 15 A. Closures of openings in walls, floors, and roof decks against penetration of flame, heat, and smoke or gases in fire resistant rated construction.

1. 16 B. Closure of openings in walls against penetration of gases or smoke in smoke partitions.

1. 17 1.2 RELATED WORK

1. 18 Firestopping work subject to the terms of the Article "Warranty of Construction", FAR clause 52.246-21, except extend the warranty period to five years.

1. 19 1.6 QUALITY ASSURANCE

1. 20 FM, UL, or WH or other approved laboratory tested products will be acceptable.

1. 21 2.1 FIRESTOP SYSTEMS

1. 22 A. Use either factory built (Firestop Devices) or field erected (through-Penetration Firestop Systems) to form a specific building system maintaining required integrity of the fire barrier and stop the passage of gases or smoke.

1. 23 B. Through-penetration firestop systems and firestop devices tested in accordance with ASTM E814 or UL 1479 using the "F" or "T" rating to maintain the same rating and integrity as the fire barrier being sealed. "T" ratings are not required for penetrations smaller than or equal to 100 mm (4 in) nominal pipe or 0.01 m² (16 sq. in.) in overall cross sectional area.

1. 24 D. Firestop sealants used for firestopping or smoke sealing shall have following properties:

1. 25 1. Contain no flammable or toxic solvents.

1. 26 2. Have no dangerous or flammable out gassing during the drying or curing of products.

1. 27 3. Water-resistant after drying or curing and unaffected by high humidity, condensation or transient water exposure.

- 1. 28 4. When used in exposed areas, shall be capable of being sanded and finished with similar surface treatments as used on the surrounding wall or floor surface.
- 1. 29 E. Firestopping system or devices used for penetrations by glass pipe, plastic pipe or conduits, unenclosed cables, or other non-metallic materials shall have following properties:
 - 1. 30 1. Classified for use with the particular type of penetrating material used.
 - 1. 31 2. Penetrations containing loose electrical cables, computer data cables, and communications cables protected using firestopping systems that allow unrestricted cable changes without damage to the seal.
 - 1. 32 3. Intumescent products which would expand to seal the opening and act as fire, smoke, toxic fumes, and, water sealant.
- 1. 33 F. Maximum flame spread of 25 and smoke development of 50 when tested in accordance with ASTM E84.
- 1. 34 G. FM, UL, or WH rated or tested by an approved laboratory in accordance with ASTM E814.
- 1. 35 H. Materials to be asbestos free.

1. 36 2.2 SMOKE STOPPING IN SMOKE PARTITIONS

- 1. 37 A. Use silicone sealant in smoke partitions as specified in Section 07 92 00, JOINT SEALANTS.
- 1. 38 B. Use mineral fiber filler and bond breaker behind sealant.
- 1. 39 C. Sealants shall have a maximum flame spread of 25 and smoke developed of 50 when tested in accordance with E84.

1. 40 PART 3 - EXECUTION

1. 41 3.1 EXAMINATION

- 1. 42 Submit product data and installation instructions, as required by article, submittals, after an on site examination of areas to receive firestopping.

1. 43 3.2 PREPARATION

- 1. 44 A. Remove dirt, grease, oil, loose materials, or other substances that prevent adherence and bonding or application of the firestopping or smoke stopping materials.
- 1. 45 B. Remove insulation on insulated pipe for a distance of 150 mm (six inches) on either side of the fire rated assembly prior to applying the firestopping materials unless the firestopping materials are tested and approved for use on insulated pipes.

1. 46 3.3 INSTALLATION

- 1. 47 A. Do not begin work until the specified material data and installation instructions of the proposed firestopping systems have been submitted and approved.
- 1. 48 B. Install firestopping systems with smoke stopping in accordance with FM, UL, WH, or other approved system details and installation instructions.
- 1. 49 C. Install smoke stopping seals in smoke partitions.

1. 50 3.4 CLEAN-UP AND ACCEPTANCE OF WORK

- 1. 51 A. As work on each floor is completed, remove materials, litter, and debris.

- 1. 52 B. Do not move materials and equipment to the next-scheduled work area until completed work is inspected and accepted by the Resident Engineer.
- 1. 53 C. Clean up spills of liquid type materials.

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