

**SECTION 01 00 00
GENERAL REQUIREMENTS**

1.1 GENERAL INTENTION

- A. Contractor shall completely prepare site for construction, including selective demolition, and furnish labor and materials and perform work for new Building 123 and associated site work, Project #531-CSI-102, Boise, Idaho, as required by Drawings and Specifications.
- B. Visits to the site by Bidders may be made only by appointment with the Medical Center Contracting Officer.
- C. Offices of ZGA Architects and Planners, Chartered, as Architect-Engineers, will render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by Contracting Officer or his duly authorized representative.
- D. All employees of General Contractor and subcontractors shall comply with Veterans Affairs (VA) security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized access.
- E. Prior to commencing work, general contractor shall provide proof that a OSHA certified “competent person” (CP) (29 CFR 1926.20(b)(2)) will maintain a presence at the work site whenever the general or subcontractors are present.
- F. Training:
 - 1. Beginning July 31, 2005, all employees of general contractor or subcontractors shall have the 10-hour OSHA certified Construction Safety course and /or other relevant competency training, as determined by the VA Contracting Officer with input from the Infection Control Risk Assessment (ICRA) team.
 - 2. Submit training records of all such employees for approval before the start of work.
- G. Terms used in this contract such as Veterans Affairs (VA) and Government; Contracting Officer (CO); Architect-Engineer (AE); Contracting Officer’s Technical Representative (COTR) or resident engineer (RE), Engineering Officer (EO) may be used interchangeably, and refer to the same entity.
- H. Schedule:

The following is the Government’s anticipated project schedule, subject to approval of the Contractor’s final project schedule.
- I. The following is the Government projected schedule:

Notice to Proceed:	Day 1
Safety/Environmental/Schedule Submittals:	30 Calendar Days After Notice to Proceed
Material Submittals:	60 Calendar Days After Notice to Proceed
Project Completion Prior To Substantial Completion:	365 Calendar Days After Notice to Proceed
Overall Project Period:	395 Calendar Days After Notice to Proceed

J. One of the submittal items that must be received and approved prior to starting on site work is the project schedule. Since it may require significant time to approve the schedule and coordinate any VA moves, this schedule should be submitted early. Refer to General Conditions 852.236-84, Schedule of Work Progress. The schedule is to contain as a minimum a description of each activity, the estimated duration, the trade and crew size, and the planned start and completion dates.

K. An updated progress schedule is to be provided prior to the submittal of each request for payment. The updated schedule is to show all activities started and/or completed during the reporting period and a projection of the activities that will take place during the following reporting period.

L. It is strongly suggested that the contractor submit long lead items for approval early in the project to avoid project delays due to untimely submission of submittals.

M. All contract work, including final inspection and punch list items impacting unobstructed use of the area(s), of that phase, shall be completed by the Contractor prior to turning over the area(s) to the VA. It will be at the discretion of the VA as to which punch list items prevent unobstructed use of the area(s). All work must be completed, including all punch list items, within the overall project period timeframe.

1.2 STATEMENT OF BID ITEM(S)

A. BASE BID: Contractor shall provide all materials, equipment, labor and supervision of every kind to complete the Work indicated, excluding any work needed exclusively to complete the alternate bids, including as necessary temporary construction of electrical systems to maintain uninterrupted electrical power to the existing buildings and other Work for the Medical Center's electrical distribution system. The Work shall be complete in all respects to accomplish the intent of the Drawings and Specifications.

B. OPTION NO. 1: Add two offices for Case Managers; relocate Vestibule 114 to accommodate these two offices and extend corridor to Vestibule 114; associated work indicated on the Drawings or otherwise required.

C. OPTION NO. 2: Upgrade windows from vinyl to clad wood (see spec 085200).

D. OPTION NO. 3: Add wainscot paneling (WP) at Waiting 101, Corridor C11 and 2nd floor Corridors, as scheduled in the Room Finish Schedule on A6.01 and indicated on Drawings ID7.1 and ID7.2 (base bid to include painting entire wall and resilient base at areas of wainscot paneling as noted on Drawings ID7.1 and ID7.2).

E. OPTION NO. 4: Pipe burst approximately 300 lineal feet of existing 6-inch sanitary sewer and install approximately 300 lineal feet of 6-inch pipe for line with the pipe burst process to the next upstream manhole. The upstream manhole is approximately six feet in depth. Reconnect three 4-inch diameter service connections to the new pipe line at locations of approximately 103 feet, 200 feet and 240 feet upstream of the manhole shown on sheet C2.4 just west of the southwest corner of the new building.

1.3 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

- A. AFTER AWARD OF CONTRACT, 1 Compact Disk (CD) with PDF format files of Specifications and Drawings will be furnished to the Contractor.
- B. Additional sets of Drawings may be made by the Contractor, at Contractor's expense, from prints and specifications in PDF format on a CD furnished by Issuing Office. Such CDs shall be returned to the Issuing Office immediately after printing is completed.

1.4 CONSTRUCTION SECURITY REQUIREMENTS

- A. Security Plan:
 - 1. The security plan defines both physical and administrative security procedures that will remain effective for the entire duration of the project.
 - 2. The General Contractor is responsible for assuring that all sub-contractors working on the project and their employees also comply with these regulations.
- B. Security Procedures:
 - 1. All general contractor's employees, subcontractors, and material suppliers entering the Medical Center consent to search by VA police at any time. The areas of search shall be all encompassing including but not limited to: their person; their personal effects; personal vehicles, as well as any and all contractor vehicles, equipment, trailers, offices, storage shed, tool boxes and any and all containers.
 - 2. For working outside the "regular hours" as defined in the contract, the General Contractor shall give 3 days notice to the Contracting Officer so that security can be provided for the employees. This notice is separate from any notices required for utility shutdown described later in this section.
 - 3. No photography of VA premises is allowed without written permission of the Contracting Officer.
 - 4. VA reserves the right to close down or shut down the project site and order General Contractor's employees off the premises in the event of a national emergency. The General Contractor may return to the site only with the written approval of the Contracting Officer.
- C. Contractor Identification:
 - 1. The Contractor's Project Manager shall be issued a badge identifying him/her as an authorized visitor on the Medical center. The Project Manager shall wear the badge displayed prominently at all times when on site. The Contractor shall return the badge at the conclusion of the project. The Contractor shall within 24 hours notify the Veterans Affairs Police Services and the Contracting Officer if the badge has been lost.
 - 2. The Contractor shall initiate an identification program for each of its employees, subcontractors, and subcontractor employees when on the Medical Center property. Each person will be identified with a unique readily visible badge identifying the person and that the person is under the direction of the General Contractor. Every employee or subcontractor shall wear the badge displayed prominently at all times when on site.

D. Key Control:

1. The General Contractor shall provide duplicate keys and lock combinations to the Resident Engineer for the purpose of security inspections of every area of project including tool boxes and parked machines and take any emergency action as necessary.

E. Document Control:

1. The General Contractor is responsible for safekeeping of all drawings, project manual and other project information. This information shall be shared only with those with a specific need to accomplish the project.
2. All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed in a manner acceptable to the VA.
3. Notify Contracting Officer and Site Security Officer immediately when there is a loss or compromise of "sensitive information".
4. All electronic information shall be stored in specified location following VA standards and procedures using an Engineering Document Management Software (EDMS).
 - a. Security, access and maintenance of all project drawings, both scanned and electronic shall be performed and tracked through the EDMS system.
 - b. "Sensitive information" including drawings and other documents may be attached to e-mail provided all VA encryption procedures are followed.
5. At the completion of the project, the Contractor shall secure all copies of drawings and specifications from its office and all subcontractors and return them to the Government.

F. Motor Vehicle Restrictions:

1. Only properly licensed motor vehicles with valid insurance shall enter the Medical Center. Drivers of such vehicles will possess on their person a valid license for the type of vehicle being driven. Vehicle access to the construction site shall be restricted to active picking up and dropping off materials and supplies.
2. Parking is strictly limited on the Medical Center. Contractor employee/subcontractor employee parking shall be restricted to either Mt. Cove parking lot or Contractor's row at the North end of the facility specifically excluding parking lots 6 and 10. Additional restrictions may be enforced based on patient and staff needs as determined by the Contracting Officer.

G. Personal Conduct:

1. Every person who enters the Medical Center's grounds is expected to conduct themselves in a professional responsible manner without the need to enumerate every expected or prohibited behavior.
2. Weapons, ammunition, explosives, and alcoholic beverages are prohibited on the Medical Center's grounds.

- 3. There shall be no solicitations or sales of any kind on the Medical Center’s grounds.
- 4. The Government reserves the right to refuse to permit employment on the Work or require dismissal from the Work of any subcontractor who, by reason of previous unsatisfactory work on Department of Veterans Affairs project or for any other reason, is considered by the Contracting Officer to be incompetent or otherwise objectionable.

(Reference VAAR 852.236-80)

1.5 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):
 - E84-2007Surface Burning Characteristics of Building Materials
- 2. National Fire Protection Association (NFPA):
 - 10-2010Standard for Portable Fire Extinguishers
 - 30-2008Flammable and Combustible Liquids Code
 - 51B-2009Standard for Fire Prevention During Welding, Cutting and Other Hot Work
 - 70-2008National Electrical Code
 - 241-2009Standard for Safeguarding Construction, Alteration, and Demolition Operations
- 3. Occupational Safety and Health Administration (OSHA):
 - 29 CFR 1926.....Safety and Health Regulations for Construction

B. Fire Safety Plan: Establish and maintain a fire protection program in accordance with 29 CFR 1926. Prior to start of work, prepare a plan detailing project-specific fire safety measures, including periodic status reports, and submit to COTR and Safety Officer for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. The plan shall include as a minimum means of egress, egress routes, assembly area, fire extinguishers, fire alarm notification methods, and job specific fire hazards. Prior to any worker for the contractor or subcontractors beginning work, they shall undergo a safety briefing provided by the general contractor’s competent person per OSHA requirements. This briefing shall include information on the construction limits, VAMC safety guidelines, means of egress, break areas, work hours, locations of restrooms, use of VAMC equipment, etc. Documentation shall be provided to the Resident Engineer that individuals have undergone contractor’s safety briefing. Contractor is to perform weekly fire hazard and OSHA safety inspections of the entire construction area from the time constructions starts until the building is turned over to the Government. A copy of these reports, listing all hazards identified and corrective actions taken, is to be provided weekly to the Resident Engineer.

- C. 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.
- D. Separate temporary facilities, such as trailers, storage sheds and dumpsters, from existing buildings and new construction by distances in accordance with NFPA 241. For small facilities with less than 6 m (20 feet) exposing overall length, separate by 3m (10 feet).
- E. Temporary Construction Partitions:
 - 1. Install and maintain temporary construction partitions to provide smoke-tight separations between construction areas and adjoining areas. Construct partitions of gypsum board or treated plywood (flame spread rating of 25 or less in accordance with ASTM E84) on both sides of fire retardant treated wood or metal steel studs. Extend the partitions through suspended ceilings to floor slab deck or roof. Seal joints and penetrations. As a minimum at door openings, install Class C, 3/4-hour fire/smoke rated doors with self-closing devices. In all cases, the temporary partition shall meet the minimum fire/smoke barrier requirements for the area affected.
 - 2. Close all openings in smoke barriers and fire-rated construction (walls, floors and ceilings) to maintain fire ratings. This includes any existing holes as well as Contractor caused holes. Holes are to be sealed as soon as possible and as a minimum by the end of each workday with temporary or permanent fire sealant. Seal penetrations with listed through-penetration fire stop materials in accordance with Section 07270, FIRESTOPPING SYSTEMS.
- F. Temporary Heating and Electrical: Install, use and maintain installations in accordance with 29 CFR 1926, NFPA 241 and NFPA 70. Open flame heating devices are prohibited on the Medical Center Grounds.
- G. Means of Egress: Do not block exiting for occupied buildings, including paths from exits to roads. Minimize disruptions and coordinate with COTR.
- H. Egress Routes for Construction Workers: Maintain free and unobstructed egress. Inspect daily. Report findings and corrective actions weekly COTR.
- I. Fire Extinguishers: Provide and maintain extinguishers in construction areas and temporary storage areas in accordance with 29 CFR 1926, NFPA 241 and NFPA 10.
- J. Flammable and Combustible Liquids: Store, dispense and use liquids in accordance with 29 CFR 1926, NFPA 241 and NFPA 30.
- K. 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 1 hour in a 24-hour period. Request interruptions in accordance with Article, OPERATIONS AND STORAGE AREAS, and coordinate with COTR. All existing or temporary fire protection systems (fire alarms, sprinklers) located in construction areas shall be tested as coordinated with the medical center. Parameters for the testing and results of any tests performed shall be recorded by the medical center and copies provided to the COTR.

- L. Smoke Detectors: Prevent accidental operation. Remove temporary covers at end of work operations each day. Coordinate with COTR.
- M. Hot Work: Perform and safeguard hot work operations in accordance with NFPA 241 and NFPA 51B. The Contractor shall be responsible for assigning an authorized supervisory representative to issue hot work permits. Before any cutting or welding with open flame is conducted, the subcontractor shall obtain permission from the Contractor's authorized representative by issuance of this permit. Coordinate with Project Manager prior to issuing any hot work permits. See Attachment A at the end of the section, for sample of hot work permit.
- N. Fire Hazard Prevention and Safety Inspections: Inspect and provide a written report weekly for fire hazards and safety problems for the entire construction areas. These inspections shall begin from the notice to proceed until the acceptance of the entire project by the Contracting Officer. Coordinate with, and report findings and corrective actions weekly to COTR.
- O. Smoking: Smoking is prohibited in and adjacent to construction areas, inside existing buildings, on building roofs, in crawl spaces, etc. In separate and detached buildings under construction, smoking is prohibited except in designated smoking rest areas.
- P. Dispose of waste and debris in accordance with NFPA 241. Remove from buildings daily.
- Q. Perform other construction, alteration and demolition operations in accordance with 29 CFR 1926.

1.6 OPERATIONS AND STORAGE AREAS

- A. 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.
- B. 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.
- C. Working space and space available for storing materials shall be as determined by the COTR.
- D. 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. Keep roads clear of construction materials, debris, standing construction

equipment and vehicles at all times. 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 COTR where required by limited working space. Additionally, Contractor may be restricted further than OSHA allowable limits in terms of vehicle and construction emissions, odors, noises, core drilling, hammer drilling, jack hammering, etc.

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.
- E. Phasing: To insure such executions, Contractor shall furnish the COTR 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 COTR 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, COTR and Contractor. Contractor shall take all measures and provide all material necessary for protecting existing equipment and property in affected areas of construction against dust and debris, so that equipment and affected areas to be used in the Medical Centers operations will not be hindered. Contractor shall permit access to Department of Veterans Affairs personnel and patients through other construction areas which serve as routes of access to such affected areas and equipment. Coordinate alteration work in areas occupied by Department of Veterans Affairs so that Medical Center operations will continue during the construction period.
- F. Construction Fence: Before construction operations begin, Contractor shall provide a substantial construction fence acceptable to the COTR, around the construction area indicated on the Drawings. Provide gates as required for access with necessary hardware, including hasps and padlocks. Fasten fence fabric to terminal posts with tension bands and to line posts and top and bottom rails with tie wires spaced at maximum 15 inches. Bottom of fences shall extend to one inch above grade. Remove the fence when directed by COTR.
- G. Utilities Services: Maintain existing utility services for Medical Center at all times. Provide temporary facilities, labor, materials, equipment, connections, and utilities to assure uninterrupted services. Where necessary to cut existing water, steam, gases, sewer or air pipes, or conduits, wires, cables, etc. of utility services or of fire protection systems and communications systems (including telephone), they shall be cut and capped at suitable places where shown; or, in absence of such indication, where directed by COTR.

1. No utility service such as water, gas, steam, sewers or electricity, or fire protection systems and communications systems may be interrupted without prior approval of COTR. Electrical work shall be accomplished with all affected circuits or equipment de-energized. When an electrical outage cannot be accomplished, work on any energized circuits or equipment shall not commence without the Medical Center Director's prior knowledge and written approval. Refer to Specification Sections 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, 27 05 11 REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS and 28 05 00, COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY for additional requirements.
 2. Contractor shall submit a request to interrupt any such services to COTR, in writing, a minimum of 48 hours in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
 3. Contractor will be advised (in writing) of approval of request, or of which other date and/or time such interruption will cause least inconvenience to operations of Medical Center. Interruption time approved by Medical Center may occur at other than Contractor's normal working hours.
 4. Major interruptions of any system must be requested, in writing, at least 15 calendar days prior to the desired time and shall be performed as directed by the COTR.
 5. In case of a contract construction emergency, service will be interrupted on approval of COTR. Such approval will be confirmed in writing as soon as practical.
 6. The VA will shut down existing utility system as necessary for the Contractor to perform required work on the utility. The Contractor shall be responsible for draining existing systems, such as water, chilled water, heating water etc. as required to accomplish new work. Contractor shall also be responsible for re-filling systems including adding chemicals as required. Contractor shall be further responsible for returning the utility to its proper operating state including but not limited to: removal of air entrainment; re-balancing of throttling valves or dampers; verification of the proper operation of any control system. It is acceptable to salvage existing treated water in clean storage containers approved by the VA, and re-inject it into the system upon completion of the work. Any treated water not re-injected shall be disposed of in accordance with project specifications.
 7. Whenever it is required that a connection fee be paid to a public utility provider for new permanent service to the construction project, for such items as water, sewer, electricity, gas or steam, payment of such fee shall be the responsibility of the Government and not the Contractor.
- H. All services to be abandoned such as wires, cables, raceways, ducts, pipes and the like, and their hangers or supports, are to be removed entirely back to the point of connection to the active utility (i.e. piping and ductwork back to active mains, electrical wires and cables back to active circuitry, and all empty raceways). If items are noted to be abandoned in place, they are to be sealed, capped or plugged.

- I. To minimize interference of construction activities with flow of Medical Center traffic, comply with the following:
 - 1. Keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles. Wherever excavation for new utility lines cross existing roads, at least one lane must be open to traffic at all times unless an alternate route is identified and Contractor provides adequate temporary barriers signage and direction for detours.
 - 2. Method and scheduling of required cutting, altering and removal of existing roads, walks, and entrances must be approved by the COTR.
 - 3. The Contractor shall conform to the Manual on Uniform Traffic Control Devices 2009 Edition Part 6 Temporary Traffic Control.
- J. Coordinate the work for this Contract with other construction operations as directed by COTR. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS. (Reference FAR 52.236-10.)
- K. The Contractor shall at all times keep the work area, including storage areas, free from accumulation of waste materials. Before completing the Work, the Contractor shall remove from the Work and premises any rubbish, tools, scaffolding, equipment and materials that are not the property of the Government. Upon completing the Work, the Contractor shall leave the work area in a clean, neat and orderly condition satisfactory to the Contracting Officer.

(Reference FAR 52.236-10 in General Conditions)

1.7 ALTERATIONS

- A. Survey: Before any work is started, the Contractor shall make a thorough survey with the COTR and Contracting Officer of areas of buildings in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by both, to the Contracting Officer. This report shall list by rooms and spaces:
 - 1. Existing condition and types of resilient flooring, doors, windows, walls and other surfaces not required to be altered throughout affected areas of buildings.
 - 2. Existence and conditions of items such as plumbing fixtures and accessories, electrical fixtures, equipment, venetian blinds, shades, etc., required by Drawings to be either reused or relocated, or both.
 - 3. Shall note any discrepancies between Drawings and existing conditions at site.
 - 4. Shall designate areas for working space, materials storage and routes of access to areas within buildings where alterations occur and which have been agreed upon by Contractor and COTR.
- B. Any items required by Drawings to be either reused or relocated or both, found during this survey to be nonexistent, or in opinion of COTR and Contracting Officer, to be in such condition that their use is

impossible or impractical, shall be furnished and/or replaced by Contractor with new items in accordance with Specifications which will be furnished by Government. Provided the Contract work is changed by reason of this subparagraph B, the Contract will be modified accordingly, under provisions of clause entitled "DIFFERING SITE CONDITIONS" (FAR 52.236-2) and "CHANGES" (FAR 52.243-4 and VAAR 852.236-88).

- C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and COTR together shall make a thorough re-survey of the areas of buildings involved. They shall furnish a report on conditions then existing, of resilient flooring, doors, windows, walls and other surfaces as compared with conditions of same as noted in first condition survey report:
 - 1. Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures; and will form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this Contract.
- D. Protection: Provide the following protective measures:
 - 1. Wherever existing roof surfaces are disturbed they shall be protected against water infiltration. In case of leaks, they shall be repaired immediately upon discovery.
 - 2. Temporary protection against damage for portions of existing structures and grounds where work is to be done, materials handled and equipment moved and/or relocated.
 - 3. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately protected prior to starting work, and this protection shall be maintained intact until all work in the area is completed.

1.8 INFECTION PREVENTION MEASURES

- A. Implement the requirements of Veterans Affairs Medical Center's (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. Establish and maintain a dust control program as part of the contractor's infection preventive measures in accordance with the guidelines provided by ICRA Group. Prior to start of work, prepare a plan detailing project-specific dust protection measures, including periodic status reports, and submit to COTR and Facility ICRA team for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
 - 1. All personnel involved in the construction or renovation activity shall be educated and trained in infection prevention measures established by the Medical Center.
- C. Medical Center Infection Control personnel shall monitor for airborne disease (e.g. aspergillosis) as appropriate during construction. A baseline of conditions may be established by the medical center prior

to the start of work and periodically during the construction stage to determine impact of construction activities on indoor air quality. In addition:

1. The COTR and VAMC Infection Control personnel shall review pressure differential monitoring documentation to verify that pressure differentials in the construction zone and in the patient-care rooms are appropriate for their settings. The requirement for negative air pressure in the construction zone shall depend on the location and type of activity. Upon notification, the Contractor shall implement corrective measures to restore proper pressure differentials as needed.
 2. In case of any problem, the Medical Center, along with assistance from the Contractor, shall conduct an environmental assessment to find and eliminate the source.
- D. In general, following preventive measures shall be adopted during construction to keep down dust and prevent mold.
1. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by COTR. Blank off ducts and diffusers to prevent circulation of dust into occupied areas during construction.
 2. Do not perform dust producing tasks within occupied areas without the approval of the COTR. For construction in any areas that will remain jointly occupied by the medical Center and Contractor's workers, the Contractor shall:
 - a. Provide dust proof two-hour fire-rated temporary drywall construction barriers to completely separate construction from the operational areas of the existing building in order to contain dirt debris and dust. Barriers shall be sealed and made presentable on occupied side. Install a self-closing rated door in a metal frame, commensurate with the partition, to allow worker access. Maintain negative air at all times. A fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local fire codes may be used where dust control is the only hazard, and with the prior approval of the COTR, the Medical Center Safety Officer, and the Medical Center infection control coordinator.
 - b. HEPA filtration is required where the exhaust dust may reenter the breathing zone. Contractor shall verify that construction exhaust to exterior is not reintroduced to the Medical Center through intake vents, or building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at 95% capture of 0.3 microns including pollen, mold spores and dust particles. Insure continuous negative air pressures occurring within the work area. HEPA filters should have ASHRAE 85 or other prefilter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty, flexible steel reinforced and exhausted so that dust is not reintroduced to the Medical Center.
 - c. Adhesive Walk-off/Carpet Walk-off Mats, minimum 600mm x 900mm (24"x48"), shall be used at all interior transitions from the construction area to occupied medical center area. These mats

shall be changed as often as required to maintain clean work areas directly outside construction area at all times.

- d. Vacuum and wet mop all transition areas from construction to the occupied medical center at the end of each workday. Vacuum shall utilize HEPA filtration. Maintain surrounding area frequently. Remove debris as they are created. Transport these outside the construction area in containers with tightly fitting lids.
 - e. The Contractor shall not haul debris through patient-care areas without prior approval of the COTR. When approved, debris shall be hauled in enclosed dust proof containers or wrapped in plastic and sealed with duct tape. No sharp objects should be allowed to cut through the plastic. Wipe down the exterior of the containers with a damp rag to remove dust. All equipment, tools, material, etc. transported through occupied areas shall be made free from dust and moisture by vacuuming and wipe down.
 - f. Using a HEPA vacuum, clean inside the barrier and vacuum ceiling tile prior to replacement. Any ceiling access panels opened for investigation beyond sealed areas shall be sealed immediately when unattended.
 - g. There shall be no standing water during construction. This includes water in equipment drip pans and open containers within the construction areas. All accidental spills must be cleaned up and dried within 12 hours. Remove and dispose of porous materials that remain damp for more than 72 hours.
 - h. Seal off all supply and return grilles and diffusers with plastic to prevent any dust or debris from entering the ductwork. Seal any unused doors leading to areas that will not be impacted by the construction.
 - i. Any ceiling tiles removed outside the construction containment area are to be replaced as soon as possible, and as a minimum at the end of each work day.
 - j. At completion, remove construction barriers and ceiling protection carefully, outside of normal work hours. Vacuum and clean all surfaces free of dust after the removal.
- E. 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.
 - 2. Perform HEPA vacuum cleaning of all surfaces in the construction area. This includes walls, ceilings, cabinets, furniture (built-in or free standing), partitions, flooring, etc.
 - 3. All new air ducts shall be cleaned prior to final inspection.
- F. Also reference Specification 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

1.9 DISPOSAL AND RETENTION

- A. Materials and equipment accruing from work removed and from demolition of buildings or structures, or parts thereof, shall be disposed of as follows:
 - 1. Reserved items which are to remain property of the Government include fire extinguishers, signs, tables, trash receptacles, cigarette/trash receptacles, bollards and others as well as items noted on Drawings or in other Specifications. Items that remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Store such items within Contractor's storage area as further directed by the COTR.
 - 2. Items not reserved shall become property of the Contractor and be removed by Contractor from Medical Center.
 - 3. Items of portable equipment and furnishings located in rooms and spaces in which work is to be done under this Contract shall remain the property of the Government. When rooms and spaces are vacated by the Department of Veterans Affairs during the alteration period, such items which are NOT required by Drawings and Specifications to be either relocated or reused will be removed by the Government in advance of work to avoid interfering with Contractor's operation.
- B. The Contractor shall be responsible for the removal and disposal of transformer(s) and other miscellaneous equipment. None of the materials contain PCBs.

1.10 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES AND IMPROVEMENTS

- A. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this Contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.
- B. Refer to Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS, for additional requirements on protecting vegetation, soils and the environment. Refer to Articles, "Alterations", "Restoration", and "Operations and Storage Areas" for additional instructions concerning repair of damage to structures and site improvements.

(Reference FAR 52.236-9 in General Conditions)

1.11 RESTORATION

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Except as otherwise shown or specified, do not cut, alter or remove any structural work, and do not disturb any ducts, plumbing, steam, gas, or electric work without approval of the COTR. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COTR before it is

disturbed. Materials and workmanship used in restoring work, shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.

- B. Contractor shall saw cut at lines shown on the Drawings all concrete, asphalt and other materials where demolition or alteration is to occur. Any damage outside of the cut lines shall be cut out by proper saw cutting creating a neat repair at no additional cost to the Government.
- C. Upon completion of Contract, deliver work complete and undamaged. Existing work (walls, ceilings, partitions, floors, mechanical and electrical work, lawns, paving, roads, walks, etc.) disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled or replaced with new work, and refinished and left in as good condition as existed before commencing work.
- D. 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.
- E. The Drawings show the general location of exiting utilities. The Contractor shall at its own expense verify exact locations and elevations of utilities and make adjustments of the Work to accommodate such utilities. Expense of repairs to such utilities and systems not shown on Drawings 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 00 72 00, GENERAL CONDITIONS.

1.12 PHYSICAL DATA

- A. Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.
 - 1. Soils Report: The indications of physical conditions on the drawings and in the specifications are the result of *Geotechnical Engineering Evaluation Consolidated Mental Health Clinics* dated May 13, 1999, prepared by Strata Geotechnical Engineering & Materials Testing.
 - 2. The soil report is for reference only, but shall not be considered part of the Contract Documents.
 - 3. A copy of the soil report will be made available for inspection by bidders upon request to the Engineering Officer at the VA Medical Center.
- B. Government does not guarantee that other materials will not be encountered nor that proportions, conditions or character of several materials will not vary from those indicated by Drawings. Specifically the Department of Veterans Affairs makes no indication of depth of water levels below grade. Bidders are expected to examine site of work and decide for themselves character of materials and make their bids accordingly. Upon proper application to Department of Veterans Affairs, bidders will be permitted to make subsurface explorations of their own at site.

1.13 PROFESSIONAL SURVEYING SERVICES

- A. A registered professional land surveyor or registered civil engineer whose services are retained and paid for by the Contractor shall perform services specified herein and in other Specification Sections. The Contractor shall certify that the land surveyor or civil engineer is not one who is a regular employee of the Contractor, and that the land surveyor or civil engineer has no financial interest in this Contract.

1.14 LAYOUT OF WORK

- A. The Contractor shall lay out the work from Government established base lines and bench marks, indicated on the Drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at Contractor's own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through Contractor's negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

(FAR 52.236-17)

- B. Establish and plainly mark such other lines and grades that are reasonably necessary to properly assure that location, orientation, and elevations established for each such structure and/or addition, roads, parking lots, are in accordance with lines and elevations shown on Contract Drawings.
- C. Following completion of general mass excavation and before any other permanent work is performed, establish and plainly mark (through use of appropriate batter boards or other means) sufficient additional survey control points or system of points as may be necessary to assure proper alignment, orientation, and grade of all major features of work. Survey shall include, but not be limited to, location of lines and grades of footings, exterior walls, center lines of columns in both directions, major utilities and elevations of floor slabs:
 - 1. Such additional survey control points or system of points thus established shall be checked and certified by a registered land surveyor or registered civil engineer. Furnish such certification to the COTR before any work (such as footings, floor slabs, columns, walls, utilities and other major controlling features) is placed.
- D. Whenever changes from Contract Drawings are made in line or grading requiring certificates, record such changes on a reproducible drawing bearing the registered land surveyor or registered civil engineer seal, and forward these drawings upon completion of work to COTR.

- E. The Contractor shall perform the surveying and layout work of this and other articles and specifications in accordance with the provisions of Article "Professional Surveying Services".
- F. The Contractor shall keep on the work site a copy of the Drawings and Specifications and shall at all times give the Contracting Officer and COTR access thereto. Anything mentioned in the Specification and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both. In case of difference between Drawings and Specifications, the Contractor shall issue a Request for Information (RFI) requesting confirmation as to which shall govern. In case of discrepancy in the figures, in the Drawings, or in the Specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at the Contractor's own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary unless otherwise provided.
- G. Wherever in the Specifications or upon the Drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription" of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of the like import shall mean "approved by", or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.
- H. Where "as shown", "as indicated", "as detailed" or words of similar import are used, it shall be understood that the reference is made to the Drawings accompanying this Contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place", that is "furnished and installed".
- I. Upon completing the work under this Contract, the Contractor shall furnish two complete sets of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the equipment is completed and accepted.
- J. The Contracting Officer's interpretation of the Drawings and Specification will be final, subject to the disputes clause.
- K. Large scale drawings supersede small scale drawings.
- L. Dimensions govern in all cases. Scaling of Drawings may be done only for general location and general size of items.
- M. Dimensions shown of existing work and all dimensions required for work that is to connect with existing work, shall be verified by the Contractor by actual measurement of the existing work. Any work at variance with that specified or shown in the Drawings shall not be performed by the Contractor until approved in writing by the Contracting Officer.

1.15 AS-BUILT DRAWINGS

- A. The Contractor shall maintain two full size sets of as-built drawings which will be kept current during construction of the project, to include all Contract changes, modifications and clarifications.
- B. All variations shall be shown in the same general detail as used in the Contract Drawings. To insure compliance, as-built drawings shall be made available for the COTR's review, as often as requested.
- C. Contractor shall deliver one approved completed sets of as-built drawings to the COTR within 15 calendar days after each completed phase and after the acceptance of the project by the COTR.
- D. Paragraphs A, B and C shall also apply to all shop drawings.
- E. Failure to keep as-built drawings up-to-date shall be cause for withholding payments.
- F. Contractor is to provide an updated sequence of operation in digital format indicating all changes made to the original sequence of operation.

1.16 USE OF ROADWAYS

- A. For hauling, use only established public roads and roads on Medical Center property and, when authorized by the COTR, such temporary roads which are necessary in the performance of Contract work. Temporary roads shall be constructed by the Contractor at Contractor's expense. When necessary to cross curbing, sidewalks, or similar construction, they must be protected by appropriate, traffic-rated steel plates secured in place.

1.17 RESIDENT ENGINEER'S FIELD OFFICE (Not Used)

1.18 TEMPORARY USE OF MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Use of new installed mechanical and electrical equipment to provide heat, ventilation, plumbing, light and power will be permitted subject to compliance with the following provisions:
 - 1. Permission to use each unit or system must be given by the COTR. If the equipment is not installed and maintained in accordance with the following provisions, the COTR will withdraw permission for use of the equipment.
 - 2. Electrical installations used by the equipment shall be completed in accordance with the Drawings and Specifications to prevent damage to the equipment and the electrical systems, i.e. transformers, relays, circuit breakers, fuses, conductors, motor controllers and their overload elements shall be properly sized, coordinated and adjusted. Voltage supplied to each item of equipment shall be verified to be correct and it shall be determined that motors are not overloaded. The electrical equipment shall be thoroughly cleaned before using it and again immediately before final inspection including vacuum cleaning and wiping clean interior and exterior surfaces.
 - 3. Units shall be properly lubricated, balanced and aligned. Vibrations must be eliminated.

4. Automatic temperature control systems for preheat coils shall function properly and all safety controls shall function to prevent coil freeze-up damage.
 5. The air filtering system utilized shall be that which is designed for the system when complete, and all filter elements shall be replaced at completion of construction and prior to testing and balancing of system.
 6. All components of heat production and distribution system, metering equipment, condensate returns, and other auxiliary facilities used in temporary service shall be cleaned prior to use; maintained to prevent corrosion internally and externally during use; and cleaned, maintained and inspected prior to acceptance by the Government.
- B. Prior to final inspection, the equipment or parts used which show wear and tear beyond normal, shall be replaced with identical replacements, at no additional cost to the Government.
- C. This paragraph shall not reduce the requirements of the mechanical and electrical Specifications Sections.

1.19 TEMPORARY USE OF EXISTING ELEVATORS (Not Used)

1.20 TEMPORARY USE OF NEW ELEVATORS

- A. The Contractor and his personnel shall be permitted use of new elevator(s) subject to the following provisions:
1. Contractor shall make arrangements with the Resident Engineer for use of elevator(s). Contractor may obtain elevator(s) for exclusive use.
 2. Prior to the use of elevator(s), the Contractor shall have the elevator(s) inspected and accepted by an ASME accredited, certified elevator safety inspector. The acceptance report shall be submitted to the Resident Engineer.
 3. Submit to the Resident Engineer the schedule and procedures for maintaining equipment. Indicate the day or days of the week and total hours required for maintenance. A report shall be submitted to the Resident Engineer monthly indicating the type of maintenance conducted, hours used, and any repairs made to the elevator(s).
 4. The Contractor shall be responsible for enforcing the maintenance procedures.
 5. During temporary use of elevator(s) all repairs, equipment replacement and cost of maintenance shall be the responsibility of the Contractor.
 6. Personnel for operating elevator(s) shall not be provided by the Department of Veterans Affairs.
 7. Contractor shall cover and provide maximum protection of the entire elevator(s) installation.
 8. The Contractor shall arrange for the elevator company to perform operation of the elevator(s) so that an ASME accredited, certified elevator safety inspector can evaluate the equipment. The Contractor shall be responsible for any costs of the elevator company.

9. All elevator(s) parts worn or damaged during temporary use shall be removed and replaced with new parts. This shall be determined by an ASME accredited certified elevator safety inspector after temporary use and before acceptance by the Government. Submit report to the Resident Engineer for approval.
10. Elevator shall be tested as required by the testing section of the elevator(s) Specifications before acceptance by the Government.

1.21 TEMPORARY TOILETS

- A. Provide where directed, (for use of all Contractor's workmen) ample temporary sanitary toilet accommodations and hand washing accommodations. Keep such places clean and free from flies, and remove prior to completion of Contract, and premises left perfectly clean. Contractor shall further comply with 29 CFR 1926 Subpart D. The Government may direct relocation of temporary facilities as needs of the Medical Center change.

1.22 AVAILABILITY AND USE OF UTILITY SERVICES

- A. Heat: Furnish temporary heat necessary to prevent injury to work and materials through dampness and cold. Use of open salamanders or any temporary heating devices which may be fire hazards or may smoke and damage finished work, will not be permitted. Maintain minimum temperatures as specified for various materials.
- B. Electricity (for Construction and Testing): Furnish all temporary electric services.
 1. Obtain electricity by connecting to the Medical Center electrical distribution system using OSHA and NEC approved GFI equipment for all electrical connections to the Medical Center. The Contractor shall meter and pay for electricity required for electric cranes. Electricity for all other uses is available at no cost to the Contractor.
- C. Water (for Construction and Testing): Furnish temporary water service.
 1. Obtain water by connecting to the Medical Center water distribution system. Provide reduced pressure backflow preventer at each connection. Water is available at no cost to the Contractor.
 2. Maintain connections, pipe, fittings and fixtures and conserve water-use so none is wasted. Failure to stop leakage or other wastes will be cause for revocation (at COTR's discretion) of use of water from Medical Center's system.

(Reference FAR 52.236-14 in General Conditions)

1.23 NEW TELEPHONE EQUIPMENT

- A. The Contractor shall coordinate with the work of installation of telephone equipment. This work shall be completed prior to final inspection and acceptance the by the Government.

1.24 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.
- C. Mechanical and electrical systems shall be balanced, controlled and coordinated. A system is defined as the entire complex which must be coordinated to work together during normal operation to produce results for which the system is designed. For example, air conditioning supply air is only one part of entire system which provides comfort conditions for a building. Other related components are return air, exhaust air, steam, chilled water, refrigerant, hot water, controls and electricity, etc.
- D. All related components as defined above shall be functioning when any system component is tested. Tests shall be completed within a reasonably short period of time during which operating and environmental conditions remain reasonably constant.
- E. Individual test result of any component, where required, will only be accepted when submitted with the test results of related components and of the entire system.

1.25 INSTRUCTIONS

- A. Contractor shall furnish Maintenance and Operating manuals and verbal instructions when required by the systems as further defined in section 1.24 above; various Sections of the Specifications; and as hereinafter specified but no later than 2 weeks prior to final inspection.
- B. Manuals: Maintenance and operating manuals (four copies each) for each separate piece of equipment shall be delivered to the COTR 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.
- C. Instructions: Contractor shall provide qualified, factory-trained manufacturers' representatives to give detailed instructions to assigned Department of Veterans Affairs personnel in the operation and complete

maintenance for each piece of equipment. All such training will be at the job site. These requirements are more specifically detailed in the various technical sections. Instructions for different items of equipment that are component parts of a complete system, shall be given in an integrated, progressive manner. All instructors for every piece of component equipment in a system shall be available until instructions for all items included in the system have been completed. This is to assure proper instruction in the operation of inter-related systems. All instruction periods shall be at such times as scheduled by the COTR and shall be considered concluded only when COTR is satisfied in regard to complete and thorough coverage. The Department of Veterans Affairs reserves the right to request the removal of, and substitution for, any instructor who, in the opinion of the COTR, does not demonstrate sufficient qualifications in accordance with requirements for instructors above.

1.26 GOVERNMENT-FURNISHED EQUIPMENT (GFE)

- A. The Government shall deliver to the Contractor the GFE indicated on the Drawings.
- B. Equipment furnished by Government to be installed by Contractor will be furnished to Contractor at the Project site.
- C. Contractor shall be prepared to receive this GFE and store or place such equipment not less than 90 days before Completion Date of project.
- D. Notify Contracting Officer in writing, 60 days in advance, of date on which Contractor will be prepared to receive GFE. Arrangements will then be made by the Government for delivery of equipment.
 - 1. Immediately upon delivery of equipment, Contractor shall arrange for a joint inspection thereof with a representative of the Government. At such time the Contractor shall acknowledge receipt of equipment described, make notations, and immediately furnish the Government representative with a written statement as to its condition or shortages.
 - 2. Contractor thereafter is responsible for such equipment until such time as acceptance of Work by the Government.
- E. GFE will be delivered in a partially assembled (knock down) condition in accordance with existing standard commercial practices, complete with all fittings, fastenings and appliances necessary for connections to respective services installed under Contract. All fittings and appliances (i.e., couplings, ells, tees, nipples, piping, conduits, cables and the like) necessary to make the connection between the GFE item and the utility stub-up shall be furnished and installed by the Contractor at no additional cost to the Government.
- F. Completely assemble and install the GFE in place ready for proper operation in accordance with Specifications and Drawings.
- G. Furnish supervision of installation of equipment at construction site by qualified factory trained technicians regularly employed by the equipment manufacturer.

1.27 RELOCATED EQUIPMENT, ITEMS

- A. Suitably cap existing service lines, such as steam, condensate return, water, drain, gas, air, vacuum and/or electrical, whenever such lines are disconnected from equipment to be relocated. Remove abandoned lines in finished areas and cap as specified herein before.
- B. Provide all mechanical and electrical service connections, fittings, fastenings and any other materials necessary for assembly and installation of relocated equipment; and leave such equipment in proper operating condition.
- C. All service lines such as noted above for relocated equipment shall be in place at point of relocation ready for use before any existing equipment is disconnected. Make relocated existing equipment ready for operation or use immediately after reinstallation.

1.28 STORAGE SPACE FOR DEPARTMENT OF VETERANS AFFAIRS EQUIPMENT (Not Used)

1.29 CONSTRUCTION SIGN

- A. Provide a construction sign where directed by the Resident Engineer. All wood members shall be of framing lumber. Cover sign frame with 0.7 mm (24 gage) galvanized sheet steel nailed securely around edges and on all bearings. Provide three 100 by 100 mm (4"x4") posts, or equivalent round posts, set 1200 mm (four feet) into ground. Set bottom of sign level at 900 mm (three feet) above ground and secure to posts with through bolts. Make posts full height of sign. Brace posts with 50 x 100 mm (2"x4") nominal material as directed.
- B. Paint all surfaces of sign and posts two coats of white gloss paint. Border and letters shall be of black gloss paint, except project title which shall be blue gloss paint.
- C. Maintain sign and remove it when directed by the Resident Engineer.
- D. Detail drawing of construction sign showing required characteristics of sign is indicated on the Drawings.

1.30 SAFETY SIGNS

- A. Install all signs necessary to comply with OSHA and other applicable regulations.
- B. Provide safeguards, including warning signs, barricades, warning lights and other similar items as required for protection of all personnel during demolition, removal and installation operations.
- C. Maintain signage and remove sign(s) when directed by Project Manager. .

1.31 CONSTRUCTION DIGITAL IMAGES (Not Used)

1.32 FINAL ELEVATION DIGITAL IMAGES (Not Used)

1.33 HISTORIC PRESERVATION

- A. Where the Contractor or any of the Contractor's employees, prior to or during the construction work, are advised of or discover any possible archeological, historical and/or cultural resources, the Contractor shall immediately notify the COTR verbally, and then with a written follow up.

1.34 TOUR OF DUTY

- A. All work shall be performed during normal Medical Center duty hours, Monday through Friday, 8:00AM to 4:30PM, excluding federal holidays, except as follows:
 - 1. Work that requires systems to be shut down may be required to be performed during other than normal working hours, including early mornings, evenings, nights, weekends or holidays. All utility shutdowns shall occur only after approval is given by the Resident Engineer.
 - 2. Work that interferes with normal VA functions shall be accomplished during other than normal working hours at a time least inconvenient to the Medical Center's operations. This may include early mornings, evenings, nights, weekends and/or holidays.
 - 3. The Contractor may request to work other than normal duty hours with the approval of the Resident Engineer only. Request to work other than normal duty hours must be submitted to the Resident Engineer in writing. Approval or rejection of such requests will depend on convenience to the Government.

1.35 LOCKOUT/TAGOUT POLICY

- A. The Contractor shall observe and comply with the Medical Center's lockout/tagout policy. As a minimum every affected person shall apply its own lock(s) on every point of potential energy such that every effected person is protected from all potential sources of energy by its own lock. Each lock shall be permanently identified to each affected person. The key for each affected person's lock shall remain solely with the effected person. No one other than the effected person may remove its lock. All affected persons shall remove their locks prior to leaving the Medical Center. If a person leaves the Medical Center without removing its lock(s), then that person will be required to return to the Medical Center and remove its lock(s) at no cost to the Government. If the affected person is not available, then the lock(s) shall be removed in accordance with the Medical Center's lockout/tagout policy at no cost to the Government. A copy of this policy is available from the Resident Engineer upon request.

1.36 COMPLIANCE WITH CODES AND REGULATIONS

- A. All work shall be conducted and all materials handled in accordance with all codes including, but not limited to, the Occupational Safety and Health Act, NFPA Life Safety Code 101, 2009 edition, the NFPA National Electrical Code 70, 2011 edition, the NFPA Electrical Safety Code 70E, 2005 edition, the International Building Code, 2009 edition, the Architectural Barriers Act Accessibility Standards (August 5,

2005) as supplemented by the VA Barrier Free Design Guide (August 2011), and the Environmental Protection Act, latest edition.

1.37 MATERIAL SAFETY AND HEALTH CONSIDERATIONS

- A. The following considerations are applicable to all Specification Sections:

The intent of this Specification is to provide materials, adhesives and solvents, which are safe and environmentally responsible products. All materials, adhesives, solvents and coatings shall be formulated to conform to the most stringent ecological, air quality, toxicity, flammability and safety regulations in the event of any conflict herein. Provide low "Volatile Organic Compound" (VOC) compliant materials, adhesives and solvents of quality and performance as specified. Out gassing materials, known or suspected carcinogens, and allergenics (i.e. formaldehyde, lead, zinc chromate) or otherwise long-term health threatening materials are to be avoided in enclosed areas whenever possible. Provide material safety data sheets with submittals for review. Inform the Project Engineer and Architect of any suspect materials.

1.38 SUPERINTENDENCE BY THE CONTRACTOR

- A. At all times during the performance of this contract and until the work is completed and accepted in writing, the Contractor shall directly superintend the work or assign and have on the work a competent superintendent employed directly by the prime contractor who is satisfactory to the Contracting Officer and has legal authority to act for the Contractor.
- B. The Contractor shall furnish to the COTR each day a consolidated report for the preceding work day in which is shown the weather, number of laborers, mechanics, foremen/forewomen and pieces of heavy equipment used or employed by the Contractor and all subcontractors. The report shall bear the name of the firm, the branch of work which they perform such as concrete, plastering, masonry, plumbing, sheet metal work, and other such work. The report shall give breakdown of employees by crafts, location where employed, and work performed.
- C. At least weekly, the Contractor's Project Manager (a person designated by the Contractor to legally represent the Contractor to the Government), shall attend a meeting with the Contracting Officer and/or the Contracting officer's Technical Representative for direct communications among all parties.
- D. Nothing contained in this contract shall be construed as creating any contractual relationship between and subcontractor and the Government. Divisions or section of specifications are not intended to control the Contractor in dividing work among subcontractors, or to limit work performed by any trade.
- E. The Contractor shall be responsible to the Government for acts and omissions of his/her own employees and subcontractors and their employees. The Contractor shall also be responsible for coordination of the work of the trades, subcontractors, and material suppliers. The Contractor shall, in advance of the work, prepare coordination drawings showing the location of openings through slabs or walls, the pipe sleeves

and hanger inserts, as well as the location and elevation of utility lines, including, but not limited to , conveyor systems, pneumatic tubes, ducts, and conduits and pipes 50 mm (2 inches) and larger in diameter. These drawings including plans, elevations and sections as appropriate shall clearly show the manner in which the utilities fit into the available space and how they relate to each other and to existing building elements. Drawings shall be of appropriate scale to satisfy the previously stated purposes, but not smaller than 9mm (3/8) scale. Drawings may be composite (with distinctive colors for the various trades) or may be separated but fully coordinated drawings (such as sepias or photographic paper reproducible) of the same scale. Separate drawings shall depict identical building areas or sections and shall be capable of being overlaid in any combination. The submitted drawings for a given area of the project shall show the work of all trades which will be involved in that particular area. Six complete composite drawings or six complete sets of separate reproducible drawings shall be received by the Government not less than 20 days prior to the scheduled start of the work in the area illustrated by the drawings, for the purpose of showing the contractor's planned method of installation. The objective of such drawings are to promote carefully planned work sequence and proper trade coordination, in order to assure the expeditious solutions of problems and the installation of lines and equipment as contemplated by the contract documents while avoiding or minimizing additional costs to the contractor and to the Government. In the event the Contractor, in coordinating the various installations and in planning the method of installation, finds a conflict in location or elevation of any of the utilities with themselves, with structural items or with other construction items, the Contractor shall bring this conflict to the attention of the Contracting Officer immediately. In doing so, the Contractor shall explain the proposed method of solving the problem or shall request instruction as to how to proceed if adjustments beyond those of usual trades' coordination are necessary. Utilities installation work will not proceed in any area prior to the submission and completion of the Government review of the coordinated drawings for that area, nor in any area in which conflicts are disclosed by the coordination drawings until the conflicts have been corrected to the satisfaction of the Contracting Officer. It is the responsibility of the Contractor to submit the required drawings in a timely manner consistent with the requirements to complete the work covered by this Contract within the prescribed contract time.

- F. The Government or its representatives will not undertake to settle any differences between the Contractor and subcontractors or between subcontractors.

1.39 MATERIAL AND WORKMANSHIP

- A. All equipment, material and articles incorporated into the Work covered by this Contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this Contract. References in the Specifications to equipment, material, articles or patented processes by trade name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may, at its option, use any equipment, materials,

article or process that, in the judgment of the Contracting Officer, is equivalent to that named in the Specifications, unless otherwise specifically provided in this Contract.

- B. The Contractor shall obtain the Contracting Officer's approval of the machinery and mechanical and other equipment to be incorporated into the Work. When requesting approval, the Contractor shall furnish to the Contracting Officer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature and rating of the machinery, and mechanical and other equipment. When required by this Contract or by the Contracting Officer, the Contractor shall also obtain the Contracting Officer's approval of the material or articles which the Contractor contemplates incorporating into the work. When requesting approval, the Contractor shall provide full information concerning the material or articles. When directed to do so the Contractor shall submit samples for approval at the Contractor's expense, with all shipping charges prepaid. Machinery, equipment, material and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.
- C. All work under this Contract shall be performed in a skillful and workman like manner. The Contracting Officer may require, in writing, that the Contractor remove from the work any employee the Contracting Officer deems incompetent, careless or otherwise objectionable.

1.40 UNKNOWN ASBESTOS

- A. The Contractor shall notify all workers that unknown asbestos could be encountered that has not been previously identified in the Contract Documents. In the event a suspect asbestos containing material is encountered during the construction, the Contractor shall immediately vacate the area and contact the Resident Engineer before proceeding further for appropriate testing and abatement procedures.

1.41 INSPECTIONS

- A. The Government will perform periodic inspections during the construction. These inspections are for the sole benefit of the Government and in no way relieve the Contractor of the responsibility of maintaining an adequate inspection and quality control system. The Government will conduct a final inspection and may conduct other inspections during which a punch list is generated (i. e. above ceiling inspection, roof inspection, exterior inspection, etc.). The Contractor shall notify the Contracting Officer, in writing, when he will be ready for a Government inspection. The Contractor is required to have all work to be inspected completed prior to a Government inspection. Prior to the final inspection, the Contractor may request a pre-final inspection be conducted by the Government. Provided the Government has adequate time, the project COTR will walk through the Project with the Contractor and point out items that need completion or correction. The Contractor will be responsible for taking notes or marking items during this walk through. The Government will not create a punch list during this walk through. Prior to the final inspection, the Contractor is required to have all work required by the Contract completed. During the final

inspection, a punch list of correction items will be generated. It typically requires 2-3 days following the final inspection before a punch list is available. Final payment will not be made until all punch list items are properly corrected.

1.42 MODIFICATIONS DUE TO EQUIPMENT CHANGES

- A. The Project has been designed around specific equipment as listed in the equipment schedules. This is not meant to limit the equipment to be used on the Project. It is a necessity of design. Other equipment is permitted to be used, provided it meets the requirement to be equal to the basis-of-design equipment; however, the Contractor is responsible for determining if using a different piece of equipment will require changes in the design (i.e. change in electrical requirements, space requirements, etc.). The Contractor is responsible for affecting any necessary changes and for any and all costs related to changes necessitated by using different equipment than the basis-of-design.

1.43 MINIMUM CLEANLINESS FOR TURNOVER OF AREA

- A. DESCRIPTION OF SERVICES. The Contractor shall provide all management, tools, equipment, supplies, materials and labor necessary to ensure the following custodial services are performed.
 - 1. Hard Floors. All floors, except carpeted areas, shall be swept, dust mopped, damp mopped, wet mopped, and waxed (floor finish), to ensure they have a uniform, glossy appearance and are free of dirt, debris, dust, scuff marks, heel marks, other stains and discoloration, and other foreign matter. Mondo Floors shall be scuff free and a floor finish called Taski Vision Matte shall be applied to the surface to present a Matte Shine. Vinyl composite tile floors shall be scuff free and a floor finish called Spartan IShine applied to the surface to present a glossy appearance.
 - 2. Vacuum Carpets. Vacuum carpeted areas. After vacuuming, the areas shall be free of all visible dirt, debris, litter and other foreign matter. Any spots shall be removed by carpet manufacturer's approved methods as soon as noticed.
 - 3. Clean Interior Glass/Mirrors. Clean all interior glass, including glass in doors, partitions, walls, display cases, directory boards, windbreaks at entrances, mirrors, etc. After glass cleaning, there shall be no traces of film, dirt, smudges, water or other foreign matter. All adjacent sills, frames, ledges, etc. shall be cleaned.
 - 4. Clean Drinking Fountains. Clean and disinfect all porcelain and polished metal surfaces, including the orifices and drains, as well as exterior surfaces of fountains. Drinking fountains shall be free of streaks, stains, spots, smudges, scale and other obvious soil.
 - 5. General Dusting. All horizontal surfaces from eight (8) feet to twenty (20) feet above the floor level must be dusted or cleaned to eliminate dust collection, to include window blinds. Typewriters, copier

- machines and equipment of similar nature shall not be dusted. Surfaces eight (8) feet and below are included in "Low Dust". Surfaces above eight (8) feet to twenty (20) feet are included in "High Dust".
6. Clean and Disinfect. Completely clean and disinfect all surfaces of sinks, toilet bowls, urinals, lavatories, showers, shower mats, dispensers, mirrors, plumbing fixtures, saunas, partitions, doors, walls and other such surfaces, using a germicidal detergent. After cleaning, surfaces will be free of deposits, dirt, streaks, stains, scale, scum and odors. Disinfect all surfaces of partitions, stalls, stall doors, entry doors (including handles, kick plates, ventilation grates, metal guards, etc.), and wall areas adjacent to wall mounted lavatories, urinals and toilets.

--- E N D ---

(Attachment A begins on next page)

**PERMIT
FOR CUTTING AND WELDING
WITH PORTABLE GAS OR ARC EQUIPMENT**

VA Project Name/Number: Project Name / Project Number

Name of Contractor: _____

Date: _____

Building/Location: _____

Work To Be Done: _____

Special Precautions: As called out in Attachment A, page A2

Fire Watch Required: Yes No

The location where this work is to be performed has been examined, necessary precautions have been taken, and permission is granted for this work. (See Page A2).

Date Permit Expires: _____

Signed _____
(Contractor's individual responsible for
authorizing hot work)

Time Hot Work Started: _____ Time Hot Work Completed: _____

FINAL CHECK-UP

Work area and all adjacent areas to which sparks and heat might have spread (including floors above and below and on opposite sides of walls) were inspected 30 minutes after the work was completed and were found fire safe.

Signed _____
(Contractor's Fire Watch)

A1

ATTENTION

Before approving any cutting and welding permit, the contractor's authorized representative or their appointee shall inspect the work area and confirm that precautions have been taken to prevent fire in accordance with NFPA Standard No. 51B.

PRECAUTIONS

- o Sprinklers are in service where installed
- o Cutting and welding equipment in good repair
- o Within 10.67 meters (35 feet); floors swept clean of combustible, no combustible material or flammable liquids, all wall and floor openings covered, and covers suspended beneath work to collect sparks
- o When working on enclosed equipment and in confined space, equipment and area is free of flammable vapors
- o Fire watch provided during and 30 minutes after operation (60 minutes for torch applied roofing operations)
- o Portable fire extinguisher with adequate rating available in the immediate vicinity
- o Standpipe system in service where installed
- o Protection of any sprinkler heads when hot work is in close proximity
- o Smoking prohibited in immediate area
- o Non-combustible shields provided when hot work is done near combustible walls, partitions, floors, and roofs
- o Prohibition of hot work on pipes contacting combustible walls
- o Personnel trained in use of equipment including portable fire extinguishers and sounding a fire alarm
- o Final check-up conducted after 30 minutes

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