

RFI FORM

Contractor Name: All American Mechanical Contractors, Inc.

Address:

Phone/Fax:

Send to: cecil.nichols@va.gov

RFI (REQUEST FOR INFORMATION)			
PROJECT NO.:	N/A	RFI NO.:	3
PROJECT NAME:	REPAIR Heating Hot Water System Leaks	DATE REQUESTED:	06/28/2016
SOLICITATION NO.:	VA262-16-Q-0886	REFERENCE:	
DRAWING:	N/A	SPECIFICATION SECTION:	N/A
DESCRIPTION OF PROBLEM OR INFORMATION BEING REQUESTED			
<p>Please be specific as possible:</p> <ol style="list-style-type: none">1. What are the actual days and exact hours we can work on the project?2. What type of copper pipe is required – L or K?3. Do the fitting joints have to be soldered or silver brazed or another type of connection?4. Will you [VA] provide a container to hold the water drained from the system?<ol style="list-style-type: none">a. If so, will you handle the labelling and disposal of the water?5. Who is the manufacturer and what is model number of the ceiling tiles?6. Is there any asbestos, lead, or other regulated materials that need to be addressed?7. When the T-bar ceiling is out of the hallway, do we have to install temporary sheeting or other containment while the corridor is being used?8. Can we place a roll-off on-site for jobsite generated waste?9. Can we place a roll-off jobsite storage bin on-site?			
PROJECT MANAGER'S RESPONSE			
<ol style="list-style-type: none">1. Be advised Davis-Bacon prevailing wage rates do apply. Based on facility access and availability of government (VA) personnel: Monday Midnight until 6AM; 7PM until Midnight. Tuesday Midnight until 6AM; 7PM until Midnight. Wednesday Midnight until 6AM; 7PM until Midnight. Thursday Midnight until 6AM; 7PM until Midnight. Friday Midnight until 6AM; 7PM until Midnight. Saturday 24 hours. Sunday 24 hours.2. type L copper pipe required.3. silver brazed4. VA can provide drums and store; VA will handle labeling and disposal.			

5. Armstrong Humiguard 1753B

6. No known hazardous materials are anticipated within work area. Should any be encountered, Contractor shall notify VA personnel and Contracting prior to proceeding.

7. Yes, containment (dust and infection control) is required. Contractor shall seal doors and entry while creating dust. Contractor shall provide HEPA filter machine to connect to exhaust. Reference attachments 14 (13 pages) and 16 (4 pages).

8. Yes, rear (North side) of Building. Contractor shall place cones to reserve 5 parking spaces. See attached sketch (red box). Contractor shall park behind Building as needed.

9. Yes, rear (North side) of Building 10. Contractor shall place cones to reserve 5 parking spaces. See attached sketch (red box).

TRACKING NO.:	AMENDMENT NO.:
VA PROJECT ENGINEER/MANAGER: Frank Schmidt, Facility Manager	DATE: 07/11/2016



Infection Control Standard Operating Procedure

NOVEMBER 2011

00-11-00QM-IC-06

INFECTION CONTROL DURING CONSTRUCTION AND RENOVATION PROJECTS

1. **PURPOSE:** The purpose of this policy is to outline infection control measures that will be implemented during all phases of renovation or new construction that takes place at GLAHS facilities. Demolition, remodeling and construction can be a risk factor for certain nosocomial infections in patients, especially those who are immune-compromised. This policy will provide the occupants of all buildings with an environment that is safe from potential infection hazards during all phases of renovation or construction.

2. **POLICY:** Plans for major renovations and construction of facilities must be reviewed by the Infection Control Department, under the authority of the Infection Control Committee for compliance with infection control policy and applicable local, state and federal regulations. All construction and renovation projects are planned and implemented in a manner to reduce infection control risks. The Engineering Department, Contractors and Sub-Contractors provide systematic inspection and preventive maintenance of the facility systems, including plumbing, electrical, heating, ventilation, air conditioning (HVAC) and structural elements.

3. **DEFINITIONS:** Infection control measures should be applied in construction projects based on both the extent of demolition and construction (construction activity type) and the potential vulnerability of patients seen or treated in the area (infection risk groups). The construction activity types are defined by the amount of dust generated, the duration of the activity and the amount of shared HVAC systems. Contact the Infection Control office if any activity is questionable under these guidelines.

A. Definition of Construction Activity Types:

(1) Type A: Inspection and non-invasive activities. Includes, but is not limited to, removal of ceiling tiles for visual inspection (limited to 1 tile per 50 square feet), painting (but not sanding) wall covering, electrical trim work, minor plumbing and activities that do not generate dust or require cutting of walls or access to ceiling other than for visual inspection.

(2) Type B: Small scale, short duration activities that create minimal dust. Includes, but is not limited to, installation of telephone and computer cabling, access to chase spaces, and cutting of walls or ceilings where dust migration can be controlled.

(3) Type C: Activity that generates moderate to high levels of dust, requiring >1 work shift for completion or requires demolition or removal of any fixed building components or

assemblies. Includes, but is not limited to, sanding of walls for painting or wall covering; removal of floor coverings, ceiling tiles and casework; new wall construction; minor ductwork or electrical work above ceilings; and, major cabling activities.

(4) Type D: Major demolition and construction projects. Includes, but is not limited to, activities that require consecutive work shifts, heavy demolition or removal of a complete ceiling system and new construction.

4. RESPONSIBILITIES:

A. The Chief, Engineering, or his designee is responsible for reviewing all Category III and IV construction projects (see definitions below) with the Infection Control Department during the planning phase to assure that infection control issues are addressed.

B. The Infection Control Practitioners are responsible for reviewing all Pre-Construction Risk Assessments (Attachment A) and providing specific recommendations for the prevention of nosocomial infections to include waste removal, integrity of walls, environmental control, traffic patterns, cleaning, contractor personnel requirements and environmental monitoring. Additional requirements may be added on an individual basis.

C. Contractors/Sub-Contractors are responsible for submitting a Pre-Construction Risk Assessment and obtaining an Infection Control Permit from the Infection Control Department prior to beginning construction. (Attachment A)

D. The Chief, Environmental Management Services, or his designee is responsible for daily inspections of construction projects in patient care areas for waste management, dust and debris control and cleaning routines.

E. The Chairman, Infection Control Committee, or his designee may shutdown construction projects immediately if imminent danger to patients, visitors, contractors, or healthcare workers exists.

F. All Personnel are expected to comply with the Infection Control Policies and Standards as outlined in the GLAHS Infection Control Manual and Medical Center By-Laws. See GLAHS "IC Program Policy" for details.

5. PROCEDURES: The GLAHS Facilities Manager or designee will contact the Infection Control Department prior to beginning construction projects adjacent to or in any patient care areas. Any of the following may be implemented to ensure a protected environment:

A. Performance Requirements-The Chief, Engineering or his designee and Infection Control Practitioner will establish necessary and appropriate protective measures for patient care areas.

(1) Infection control is critical in all areas of all facilities. All construction activities are to be assessed for the potential of causing disturbance of existing dust, or creating

new dust. Construction will be conducted in tight enclosures cutting off any flow of particles into patient areas.

(2) GLAHS requires any Contractor, Sub-Contractors, material suppliers, vendors, employees, or agents to be bound by these same requirements. Where appropriate, and before construction on site begins, the Contractor's on-site management team shall participate in joint planning with GLAHS' Engineering Project Management, and Infection Control Department for dust control measures and instruction on precautions required.

(3) HEPA equipped air filtration machines shall provide air flow into construction area not less than 100 FPMs at barricade entrances with doors fully open. HEPA equipped air filtration machines shall be connected to normal power and ganged to a single switch for emergency shutoff and shall run continuously.

(4) The GLAHS' Safety or Infection Control Departments may modify performance requirements for certain activities. Any modifications made by GLAHS' personnel do not relieve the Contractor of compliance with proper infection control procedures.

B. Contract Submittals-Infection control procedure requirements, including location and details of barriers and product data, will be included in all contract submittals.

C. Quality Monitoring and Control-

(1) The Contractor is responsible for maintaining equipment and replacement of HEPA and other filters in accordance with manufacturer's recommendations.

(2) The GLAHS' Safety Department and Infection Control Department will perform field inspections of all Class III and IV projects. The Infection Control Practitioner will complete the "Infection Control Rounds Checklist." (Attachment B).

(3) The GLAHS's Safety Department will perform field testing of air quality.

(4) GLAHS' Engineering Department will confirm specified air velocity/changes whenever barricades are erected or modified.

(5) GLAHS' personnel will monitor air quality throughout the project as needed.

D. Infection Control Permit-

(1) An Infection Control Permit is required for all Class III and higher projects and any activity in Infection Control Risk Group 4. Refer to shaded areas on Pre-Construction Risk Assessment, Classification of Required Preventive Measures.

(2) Anyone involved in the construction, demolition, renovation, or remodeling must view the Infection Control Construction video prior to beginning work. Contractors/Sub-contractors will arrange viewing of the Infection Control video with the GLAHS Librarian in Bldg. 500, Room 6251 at 310-268-3003. The Librarian will provide sign-in sheets. At

completion of viewing, Contractors/Sub-Contractors will return sign-in sheets to Infection Control, Bldg 500, Room 6404 and will receive copies for their records. Original attendance records will be maintained by the Infection Control Department.

(3) The Infection Control Permit will be obtained from the Infection Control Department prior to beginning any demolition or construction work.

(4) The Permit will be displayed at the entrance to the work area during the entire construction period.

E. Products and Materials-

(1) Sheet Plastic: Fire retardant polystyrene, 6-mil thickness.

(2) Barrier Doors: Solid core wood in metal frame, painted.

(3) HEPA Equipped Air Filtration Machines: Forced Air 2000 HEPA equipped air filtration as well as primary and secondary HEPA filters.

(4) Exhaust Hoses: Heavy duty, flexible, steel, and reinforced.

(5) Adhesive Walk-Off Mats.

(6) Disinfectant: GLAHS approved disinfectant or equal.

(7) Control Cube: Portable Ceiling Access Module.

F. Barriers-

(1) Closed door with masking tape applied over the frame and door is acceptable for projects that can be contained.

(2) Construction, demolition or reconstruction not capable of containment within a single room must have the following barriers erected:

(a) Airtight plastic barrier that extends from floor to ceiling. Seams must be sealed with duct tape to prevent dust and debris from escaping.

(b) Drywall barriers erected with joints covered or sealed to prevent dust and debris from escaping.

(c) Seal (airtight) all penetrations in existing barrier.

(d) Barriers at penetration of ceiling envelopes, chases and ceiling spaces to stop movement of air and debris.

(e) Anteroom or double entrance openings that allow workers to removed protective clothing or vacuum off existing clothing.

(f) At elevator shafts or stairways within the field of construction.

(g) Overlapping flap (minimum 2 feet wide) at polyethylene enclosures for personnel access.

G. Implementation-

(1) Temporary construction barriers and closures above ceiling shall be dust tight.

(2) Removal of debris shall be in tightly covered containers.

(3) Adhesive mats or carpets at barricade entrances and in the anteroom shall be kept clean and changed daily, or as necessary, to prevent accumulation of dust.

(4) Any dust tracked outside of barriers shall be removed immediately, and outside cleaned by vacuuming with HEPA filter or damp mop.

(5) Any ceiling access panels opened for investigation beyond sealed areas shall be replaced immediately when unattended.

(6) Block off all existing ventilation ducts within the construction area. Method of capping ducts shall be dust tight and withstand airflow.

(7) When openings are made into existing ceilings, use Control Cube or provide polystyrene enclosure around ladder sealing off opening, fitted tight to ceiling and floor. Provide thorough cleaning of existing surfaces that become exposed to dust.

(8) Removal of construction barriers and ceiling protection shall be done carefully, outside of normal work hours. Vacuum and clean all surfaces free of dust after the removal.

(9) When access panels are opened in occupied areas for work above ceilings. Use Control Cube or polyethylene enclosure around ladder sealing off opening, fitted tight to ceiling and floor.

(10) All vacuuming outside areas not under negative pressure to be with a certified HEPA filtered vacuum.

(11) Construct anteroom to maintain negative airflow from clean area through anteroom and into work area.

(12) Maintain equipment including mops, brooms, buckets, and clean wiping rags for cleaning fine dust from floors in adjacent occupied areas.

(13) Cleanup dust tracked outside of construction area immediately.

H. Specific Infection Control Measures by Project Classification:

(1) Class I:

(a) Minimize dust from construction operations.

(b) Immediately replace any ceiling tiles displaced.

(c) Cleanup and disposal will be done following measures outlined in Section G above.

(2) Class II:

(a) Provide active means to prevent air-borne dust from dispersing into atmosphere.

(b) Use water mist on work surfaces to control dust while cutting.

(c) Seal unused doors with masking tape.

(d) Block off and seal air vents.

(e) Wipe work surfaces with approved disinfectants.

(3) Class III:

(a) Obtain Infection Control Permit from GLAHS' Infection Control Department before construction begins.

(b) Isolate HVAC system in area where work is being done to prevent contamination of duct system.

(c) Complete all critical barriers before construction begins or implement Control Cube method.

(d) Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.

(e) Contain construction waste before transport in tightly covered containers.

(f) Cover transport receptacles or carts. Tape covers.

(g) Wet mop and/or vacuum with HEPA filtered vacuum before leaving work areas.

(h) Place dust mat at entrance and exit of work area.

(i) Isolate HVAC system in areas where work is being performed.

(4) Class IV:

(a) Obtain Infection Control Permit from the GLAHS' Infection Control Department before construction begins.

(b) Isolate HVAC system in area where work is being done to prevent contamination of duct system.

(c) Complete all critical barriers or implement Control Cube method before construction begins.

(d) Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.

(e) Seal holes, pipes, conduits, and punctures appropriately.

(f) Construct anteroom and require all personnel to pass through this room so they can be vacuumed using an HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site.

(g) All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.

(h) Provide adhesive walk-off mats at entrances to work areas within the anterooms. Replace used mats with new mats in accordance with manufacturer's recommendations.

(i) Do not remove barriers from work areas until completed project is inspected by the GLAHS Safety and Infection Control Departments and thoroughly cleaned by the GLAHS Environmental Management Services.

(j) Vacuum work area with HEPA filtered vacuums.

(k) Wet mop area with disinfectant.

(l) Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.

(m) Contain construction waste before transport in tightly covered containers.

(n) Cover transport receptacle or carts. Use tape covering.

(o) Isolate HVAC system in areas where work is being performed.

6. REFERENCES:

A. APIC Construction Toolkit.

7. KEY WORDS:

A. Infection Control, Infection Control and Construction, Infection Control and Renovation, Pre-Construction Risk Assessments

8. RESCISSION: *Infection Control During Construction and Renovation Projects* Standard, May 2001.

9. REVIEW DATE: Review as needed and reissue every three years.



WILLIAM SCHWARTZMAN, MD
Chairman, Infection Control Committee

November 1, 2011

Date

ATTACHMENT A: Pre-Construction Risk Assessment

Pre-Construction Risk Assessment		
Infection Control Construction Permit		
Location of Construction:		Project Start Date:
Project Coordinator:		Estimated Duration:
Contractor Performing Work:		Permit Expiration Date:
Supervisor:		Telephone:
Project or Work Order #		Email:
Description of project: <input type="checkbox"/> Demolition <input type="checkbox"/> Construction <input type="checkbox"/> Renovation <input type="checkbox"/> Repairs		
Construction Activities		
<p>The following projects do not require completion of the Pre-construction risk assessment form:</p> <ol style="list-style-type: none"> 1. Paint and wallpaper in business offices and non-patient areas. 2. Paint in patient room if closed for painting and less than 3 sq.ft. of wall needs patched. Filter for room unit changed after painting. 3. Installation of soap dispenser/needle box/paper towel holder in patient room 4. Repair of window blind. 5. Ceiling tile replacement for areas less than 50% of the total square footage of the room, if not in business offices and non-patient areas. 6. Ceiling tile replacement for area less than 5 2 X 2 tiles in a patient area if patient is out of the immediate area and clean up can be accomplished before patient returns. 7. Minimum repair of nurse call system/TV/Bed/Telephone. 8. Check or replace electric outlet. 9. Replace light bulb. 10. Unstop sink/commode with no water on floor. 11. Unstop commode when water on floor requires maintenance to have Housekeeping clean area immediately. 12. Repair medical gas outlet. (Front Body) 13. Air balance readings. 14. Check air-conditioning. 15. Intermediate jobs that create a moderate amount of dust inside room and is made negative by use of hepa-equipped unit with minimum 10 ACH, and all air discharged outside, hepa unit must run 2 hours after completion of job and Housekeeping must clean room before unit is removed from room. All work and use of hepa unit must be documented and copy forward to Infection Control and Safety. NOTE: All duct vents are to be sealed off during work! 		
Yes	No	
		Will there be noise generated that will impact a department adjacent to, above, or below the construction area?
		a. If so, these departments must be notified.
		b. How are you going to reduce the noise to an acceptable level?
Yes	No	
		Will there be vibration generated that will impact a department adjacent to, above, or below the construction area?
		a. If so, these departments must be notified each time this type of work will be performed.
		b. How are you going to reduce the vibration to an acceptable level?
Yes	No	
		Are Emergency Procedures in place and posted on each job for accidental events that could greatly impact Patient Care or Life Safety to the facility? Included in these procedures are such things as:
		<ul style="list-style-type: none"> • Emergency telephone numbers of key departments. • A plan that describes where main valves, switches, and controls are for the area in case of an emergency. • A plan for unexpected outages.
Environment		
Yes	No	Are any of the following environmental hazards present?
		Will hazardous chemicals be used on this project? How will fumes and odors be controlled? MSDS Sheets are required.
		Is asbestos abatement required on this job? If so, notify Safety and FES at the activation.
		Will there be hot work done on this project? If there are, then a hot work permit must be posted on the job site. All hot work must have a fire watch assigned to each area while the hot work is being performed.
		Will there be a Confined Space Entry required on this project? If so, the Medical Center's confined space entry program must be followed.
Utility Failures		
Yes	No	Will any of the following systems be out of service at any time during the project?
		• Fire alarm (If out for more than 4 hours, Interim Life Safety Measures must be implemented.)
		• Sprinkler (If out for more than 4 hours, Interim Life Safety Measures must be implemented.)
		• Electrical
		• Domestic water
		• Oxygen
		• Sewage
		• H V A C

Yes	No	
		Will there be any work that will require activation of the Interim Life Safety Measures during this project? Some things that trigger ILSM's to be implemented are but not limited to: <ul style="list-style-type: none"> Any construction that impacts an EXIT or stairs, Any construction that impacts major breaches in a fire or smoke wall, (penetration permit required) Taking the main fire protection system out of service (sprinkler), Taking the main fire alarm system out of service, Taking the "area" fire or fire alarm systems out of service for more than 4 hours within a 24-hour period.
		Implementation of the ILSM requires a fire watch and the ILSM forms to be completed (forms are to be obtained from the Medical Center Fire Department).
Additional Safety Concerns		
Yes	No	
		Will construction affect exit routes from occupied areas adjacent to construction site?
		Will project affect traffic patterns in area? <i>If yes, explain plan.</i>
		The following must be completed prior to any construction activities.
		<ul style="list-style-type: none"> Separation wall must be constructed prior to project beginning. Fire protection systems must remain intact. Provide extra fire extinguishers in work areas. Maintain exit lights in work area. Maintain negative air in construction area (24/7) through duration of project. There cannot be any return air from within the construction area to the rest of the building. Redirect exiting not to go through construction area. Put signs on doors into construction area "Construction Area – Do Not Enter." Maintain daily logs and keep a current Hot Work Permit. Place tacky mats at doors exiting construction area. All debris removal must be by covered cart. Maintain clean and orderly work area. How will this project affect the departments above, below, and adjacent to this project?
Air Quality and Infection Control		
The construction activity types are defined by the amount of dust that is generated, the duration of the activity, and the amount of shared HVAC systems. Contact CVAMC's Safety Office and Infection Preventionist if any activity is questionable under these guidelines.		
Yes	No	
		Will dust be generated during this project? <i>If yes, explain location of and plan for interim dust barriers or attach floor plan with barriers clearly marked.</i>
		Will debris removal be necessary? <i>If yes, explain plan for debris removal and control.</i>
		Negative airflow ventilation and filtration in place and assessed for effectiveness.
		Exhaust fans in place and functioning.
		Is supply duct to area closed and HEPA filtration unit in place and functioning in adjacent patient care area?
		Will work be done in a sterile area? <i>If so, how are you going to maintain sterile atmosphere in work area and access to and from work area?</i>
Type A Inspections and Non-Invasive Activities or Small scale, Short duration Activities		
Yes	No	
		Removal of ceiling tiles for visual inspection (limited to <25% of total area)
		Painting (limited sanding to <10% of area)
		Wall covering—Describe work to be done:
		Electrical trim work. Describe:
		Minor plumbing. Describe:
Type B Small scale, short duration activities that create minimal dust.		
Yes	No	
		Installation of telephone and computer cabling
		Access to chase spaces
		Sanding of walls for painting or wall covering (minor repairs—not sanding for drywall finishing)

Type C		Any work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.
Yes	No	
		Sanding of walls-(>50% of surface area)-drywall finishing
		Removal of <input type="checkbox"/> floor coverings <input type="checkbox"/> ceiling tile <input type="checkbox"/> casework (>50% of surface area) Describe:
		Cutting of walls or ceiling. Describe:
		New wall construction
		Minor ductwork or electrical work above ceilings
		Major cabling activities
		Activity cannot be completed within a single work shift
Type D		Major demolition and construction projects.
Yes	No	
		Will require heavy demolition or removal of a complete ceiling system
		New construction
<p>PRINT names of personnel, including sub contracts, involved in the project that need to see the Infection Control Construction Video. Call GLAHS Librarian at 310-268-3003 to make appointment for all personnel to see video in Room 6251.</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p>7. _____</p> <p>8. _____</p> <p>9. _____</p> <p>10. _____</p> <p>11. _____</p> <p>12. _____</p> <p>13. _____</p> <p>14. _____</p> <p>15. _____</p>		

STOP, DO NOT FILL BELOW, FOR INFECTION CONTROL USE ONLY

Risk Levels

Group 1 Lowest Risk	Group 2 Medium Risk	Group 3 Medium-High Risk	Group 4 Highest Risk
Office Areas Non-patient Care Areas	Ambulatory Care Patient Units (Cardiac, Mental Health, Medicine, Rehab)	Emergency room Radiology/MRI Day Surgery PACU All Intensive Care Units Nuclear Medicine Admission PT, Pool/Water Therapy Housekeeping Closets Dietary Storage Food Preparation Areas Canteens Laboratories Interstitials in Group 3	Operating Rooms, Clean and Soiled Utility Areas Supply, Processing or Distribution Areas/DSU Cardiovascular Procedure Areas Cardiac Cath and Angioplasty Areas Procedure Rooms Isolation Rooms Dialysis Cardiology Anesthesia and Pump Areas Pharmacy Admixture Area Endoscopy Areas Interstitials in Group 4

CONSTRUCTION ACTIVITY (from previous page) <i>Check type of activity</i>	INFECTION CONTROL RISK GROUP (see above) <i>Check risk group</i>
TYPE A: Inspection, non-invasive activity	GROUP 1: Lowest Risk
TYPE B: Small scale, short duration projects; minimal dust	GROUP 2: Medium Risk
TYPE C: Activity generates moderate to high levels of dust, requiring >1 work shift for completion; demolition or removal of any fixed bldg components or assemblies	GROUP 3: High Risk
TYPE D: Major duration and construction activities Requiring consecutive work shifts	GROUP 4: Highest Risk

CLASSIFICATION OF REQUIRED PREVENTIVE MEASURES

CONSTRUCTION ACTIVITY- INFECTION CONTROL RISK GROUP	TYPE	TYPE "B"	TYPE "C"	TYPE "D"
Group 1	I	I	II	III/IV
Group 2	I	I	III	IV
Group 3	II	III	III/IV	IV
Group 4	III	III/IV	III/IV	IV

An Infection Control Construction Permit is required for any work done in Class III or IV. Refer to shaded area on *Classification of Required Prevention Measures* above. For in-house electricians, plumbers, etc., permits are required for any work that penetrates a barrier in Group 3 or Group 4 within *Risk Levels* section above.

CLASS I	1. Execute work by methods to minimize raising dust from construction operations.	2. Immediately replace any ceiling tile displaced for visual inspection.
CLASS II	1. Provide active means to prevent air-borne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents. 5. Wipe surfaces with disinfectant.	6. Contain construction waste before and during transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 8. Place dust mat at entrance and exit of work area as needed. 9. Remove or isolate HVAC system in areas where work is being performed.
CLASS III	1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Contain construction waste before and during transport in tightly covered containers.	6. Seal holes, pipes, conduits, etc. appropriately. 7. Place dust mat at entrance and exit of work area. Replace as needed. 8. Do not remove barriers from work area until completed project is inspected by Safety and Epidemiology Depts. and thoroughly cleaned. After work is completed: 9. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 10. Remove isolation of HVAC system.
Class IV	1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site.	7. All personnel entering work site are required to wear shoe covers. 8. Contain construction waste before and during transport in tightly covered containers. Cover transport receptacles or carts. Tape covering. 9. Do not remove barriers from work area until completed project is inspected by Safety and Epidemiology Depts. And thoroughly cleaned. After work is completed: 10. Vacuum work area with HEPA filtered vacuums. 11. Wet mop with disinfectant. 12. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 13. Remove isolation of HVAC system.

Additional concerns for all classes:

1. Maintain manpower and equipment including dust mops, wet mops, brooms, buckets, and clean wiping rags for cleaning fine dust from floors and adjacent occupied areas.
2. Contain work areas outside of construction barriers, including spaces above ceilings, with full height polyethylene sheet barrier, tightly taped.
3. Clean up dust tracked outside of construction area immediately.
4. Temporary construction barriers and closures above ceiling must be dust tight.
5. Removal of debris must be in covered containers.

Additional Requirements or Concerns:

Permit Request By	Infection Practitioner Approval
Date:	Date:

Infection Control Permit with Pre-Construction Risk Assessment

Location of Construction: B10, 1 st Floor		Project Start Date:	
Project Coordinator:		Estimated Duration:	
Contractor Performing Work:		Telephone:	
Supervisor:		Email:	
Project or Work Order #			
Description of project: (Choose only one.) <input type="checkbox"/> Demolition <input type="checkbox"/> Construction <input type="checkbox"/> Renovation <input checked="" type="checkbox"/> Repairs Remove ceiling. Remove partial ductwork. Replace joints on hot water piping. Replace ductwork, ductwork insulation, and ceiling.			
Yes	No		
X		Will there be noise generated that will impact a department adjacent to, above, or below the work area?	
		a. If so, these departments must be notified.	
		b. How are you going to reduce the noise to an acceptable level? Contractor will work off hours.	
X		Will there be vibration generated that will impact a department adjacent to, above, or below the work area?	
		a. If so, these departments must be notified each time this type of work will be performed.	
		b. How are you going to reduce the vibration to an acceptable level? Contractor will work off hours.	
X		Are Emergency Procedures in place and posted on each job for accidental events that could greatly impact Patient Care or Life Safety to the facility? Included in these procedures are such things as:	
		<ul style="list-style-type: none"> • Emergency telephone numbers of key departments. • A plan that describes where main valves, switches, and controls are for the area in case of an emergency. • A plan for unexpected outages. 	
X		Are any of the following environmental hazards present?	
	X	Will hazardous chemicals be used on this project? How will fumes and odors be controlled? <i>MSDS Sheets are required.</i>	
	X	Is asbestos abatement required on this job? <i>If so, notify Safety and FES at the activation.</i>	
X		Will there be hot work done on this project? If there are, then a hot work permit must be posted on the job site. All hot work must have a fire watch assigned to each area while the hot work is being performed.	
	X	Will there be a Confined Space Entry required on this project? If so, the Medical Center's confined space entry program must be followed.	
X		Will any of the following systems be out of service at any time during the project?	
	X	• Fire alarm (<i>If out for more than 4 hours, Interim Life Safety Measures must be implemented.</i>)	
	X	• Sprinkler (<i>If out for more than 4 hours, Interim Life Safety Measures must be implemented.</i>)	
	X	• Electrical	
	X	• Domestic water	
	X	• Oxygen	
	X	• Sewage	
X		• H V A C	

Yes	No	
X		Will there be any work that will require activation of the Interim Life Safety Measures during this project? Some things that trigger ILSM's to be implemented are but not limited to: <ul style="list-style-type: none"> Any work that impacts an EXIT or stairs, Any work that impacts major breaches in a fire or smoke wall, (penetration permit required) Taking the main fire protection system out of service (sprinkler), Taking the main fire alarm system out of service, Taking the "area" fire or fire alarm systems out of service for more than 4 hours within a 24-hour period.
		Implementation of the ILSM requires a fire watch and the ILSM forms to be completed (forms are to be obtained from the Medical Center Fire Department).
Yes	No	
X		Will work affect exit routes from occupied areas adjacent to work site?
X		Will project affect traffic patterns in area? <i>If yes, explain plan.</i>
		The following must be completed prior to any construction activities.
		<ul style="list-style-type: none"> Separation wall must be constructed prior to project beginning. Fire protection systems must remain intact. Provide extra fire extinguishers in work areas. Maintain exit lights in work area. Maintain negative air in construction area (24/7) through duration of project. There cannot be any return air from within the construction area to the rest of the building. Redirect exiting not to go through construction area. Put signs on doors into construction area "Construction Area – Do Not Enter." Maintain daily logs and keep a current Hot Work Permit. Place tacky mats at doors exiting construction area. All debris removal must be by covered cart. Maintain clean and orderly work area. How will this project affect the departments above, below, and adjacent to this project?
Air Quality and Infection Control		
The construction activity types are defined by the amount of dust that is generated, the duration of the activity, and the amount of shared HVAC systems. Contact CVAMC's Safety Office and Infection Preventionist if any activity is questionable under these guidelines.		
Yes	No	
X		Will dust be generated during this project? <i>If yes, explain location of and plan for interim dust barriers or attach floor plan with barriers clearly marked.</i>
X		Will debris removal be necessary? <i>If yes, explain plan for debris removal and control.</i>
X		Negative airflow ventilation and filtration in place and assessed for effectiveness.
X		Exhaust fans in place and functioning.
X		Is supply duct to area closed and HEPA filtration unit in place and functioning in adjacent patient care area?
X		Will work be done in a sterile area? <i>If so, how are you going to maintain sterile atmosphere in work area and access to and from work area?</i>
Type A		Inspections and Non-Invasive Activities or Small scale, Short duration Activities
Yes	No	
		Removal of ceiling tiles for visual inspection (limited to <25% of total area)
		Painting (limited sanding to <10% of area)
		Wall covering—Describe work to be done:
		Electrical trim work. Describe:
		Minor plumbing. Describe:
Type B		Small scale, short duration activities that create minimal dust.
Yes	No	
		Installation of telephone and computer cabling
		Access to chase spaces
		Sanding of walls for painting or wall covering (minor repairs—not sanding for drywall finishing)
Type C		Any work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.
Yes	No	
		Sanding of walls-(>50% of surface area)-drywall finishing
		Removal of □floor coverings □ceiling tile □casework (>50% of surface area) Describe:
		Cutting of walls or ceiling. Describe:
		New wall construction
		Minor ductwork or electrical work above ceilings
		Major cabling activities
		Activity cannot be completed within a single work shift
Type D		Major demolition and construction projects.
Yes	No	

X	Will require heavy demolition or removal of a complete ceiling system
	New construction

STOP! DO NOT FILL BELOW, FOR INFECTION CONTROL USE ONLY.

Note: If you email this form to one of the Infection Control Practitioners, please follow-up with a phone call to IC to ensure it was received (310-268-3268). Do not leave a message.

Risk Levels

Group 1 Lowest Risk	Group 2 Medium Risk	Group 3 Medium-High Risk	Group 4 Highest Risk
Office Areas Non-patient Care Areas	Ambulatory Care	Emergency room Radiology/MRI Day Surgery PACU All Intensive Care Units Nuclear Medicine Admission PT, Pool/Water Therapy Housekeeping Closets Dietary Storage Food Preparation Areas Canteens Laboratories Interstitials in Group 3 Respiratory Therapy Patient Units: (Mental Health, Medicine, Rehab)	Operating Rooms, Clean and Soiled Utility Areas Supply, Processing or Distribution Areas/DSU Cardiovascular Procedure Areas Cardiac Cath and Angioplasty Areas Procedure Rooms Isolation Rooms Dialysis Cardiology Anesthesia and Pump Areas Pharmacy Admixture Area Endoscopy Areas Interstitials in Group 4

CONSTRUCTION ACTIVITY (from previous page) <i>Check type of activity</i>		INFECTION CONTROL RISK GROUP (see above) <i>Check risk group</i>	
	TYPE A: Inspection, non-invasive activity		GROUP 1: Lowest Risk
	TYPE B: Small scale, short duration projects; minimal dust		GROUP 2: Medium Risk
	TYPE C: Activity generates moderate to high levels of dust, requiring >1 work shift for completion; demolition or removal of any fixed bldg components or assemblies		GROUP 3: High Risk
	TYPE D: Major duration and construction activities Requiring consecutive work shifts		GROUP 4: Highest Risk

CLASSIFICATION OF REQUIRED PREVENTIVE MEASURES

CONSTRUCTION ACTIVITY- INFECTION CONTROL RISK GROUP	TYPE "A"	TYPE "B"	TYPE "C"	TYPE "D"
Group I	I	I	II	III/IV
Group 2	I	I	III	IV
Group 3	II	III	III/IV	IV
Group 4	III	III/IV	III/IV	IV

An Infection Control Construction Permit is required for any work done in Class III or IV. Refer to shaded area on *Classification of Required Prevention Measures* above. In addition, for in-house electricians, plumbers, etc., permits are required for any work that produces dust or penetrates a barrier (including ceiling tile removal) in Group 3 or Group 4 within *Risk Levels* section above.

CLASS I	1. Execute work by methods to minimize raising dust from construction operations.	2. Immediately replace any ceiling tile displaced for visual inspection.
CLASS II	1. Provide active means to prevent air-borne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents. 5. Wipe surfaces with disinfectant.	6. Contain construction waste before and during transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 8. Place dust mat at entrance and exit of work area as needed. 9. Remove or isolate HVAC system in areas where work is being performed.
CLASS III	1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Contain construction waste before and during transport in tightly covered containers.	6. Seal holes, pipes, conduits, etc. appropriately. 7. Place dust mat at entrance and exit of work area. Replace as needed. 8. Do not remove barriers from work area until completed project is thoroughly cleaned and inspected by Safety and Infection Control section. After work is completed: 9. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 10. Remove isolation of HVAC system.
Class IV	1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site.	7. All personnel entering work site are required to wear shoe covers. 8. Contain construction waste before and during transport in tightly covered containers. Cover transport receptacles or carts. Tape covering. 9. Do not remove barriers from work area until completed project is thoroughly cleaned by Safety and Infection Control section. After work is completed: 10. Vacuum work area with HEPA filtered vacuums. 11. Wet mop with disinfectant. 12. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 13. Remove isolation of HVAC system.

Additional concerns for all classes:

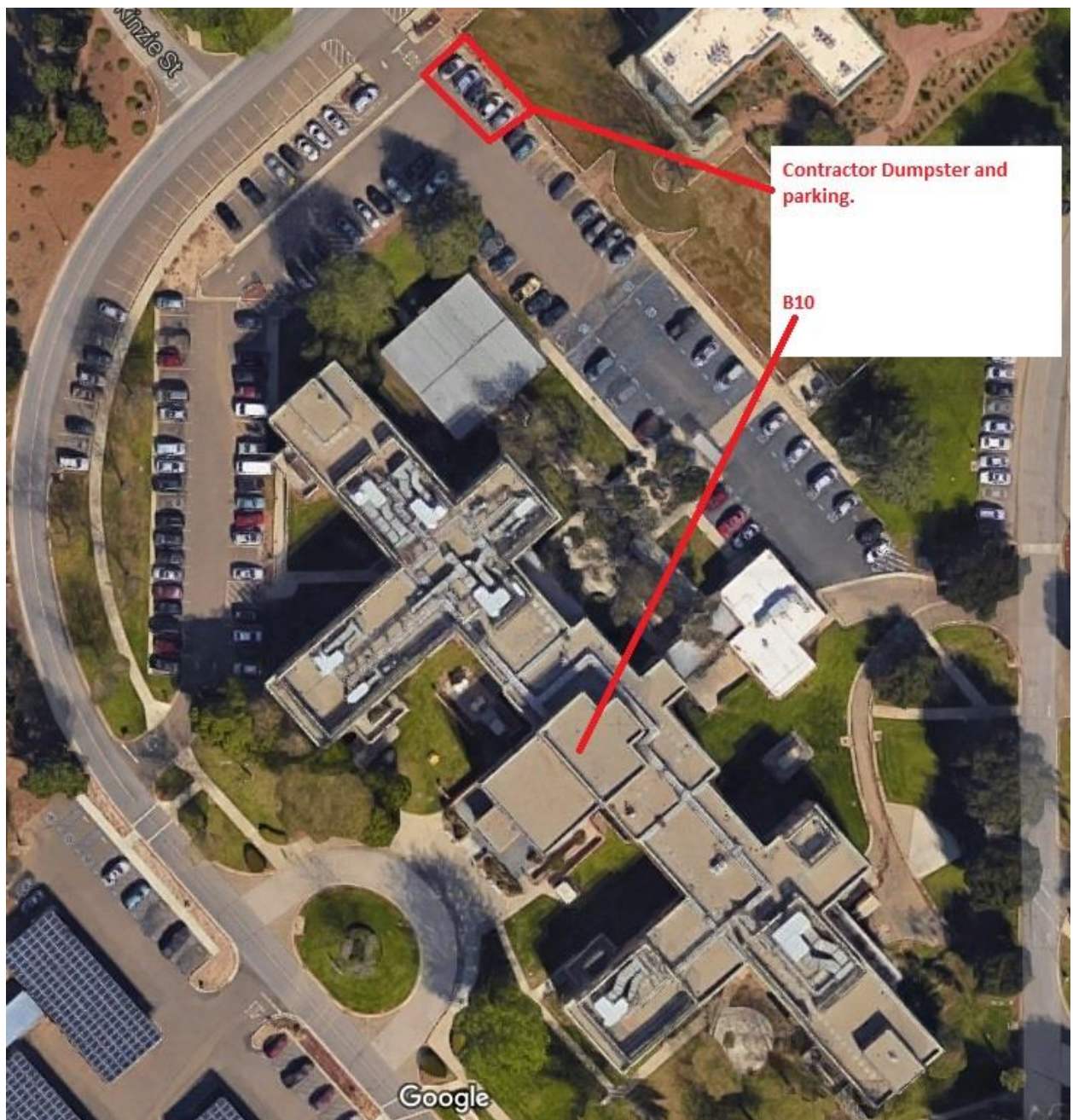
1. Maintain manpower and equipment including dust mops, wet mops, brooms, buckets, and clean wiping rags for cleaning fine dust from floors and adjacent occupied areas.
2. Contain work areas outside of construction barriers, including spaces above ceilings, with full height polyethylene sheet barrier, tightly taped.
3. Clean up dust tracked outside of construction area immediately.
4. Temporary construction barriers and closures above ceiling must be dust tight.
5. Removal of debris must be in covered containers.

Additional Requirements or Concerns:

Outside Contractors must abide by VA-WLA contract regarding TB skin testing as well as the requirement to have evidence that each contract worker had education and training in infection control measures.

Inside contractors (employees) may watch the film on the Infection Control SharePoint site at <http://vaww.portal.gla.med.va.gov/sites/QMNew/IC/default.aspx>.

Permit Request By	Infection Practitioner Approval
Date:	Date:



Contractor Dumpster and parking.

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