

VHA Infection Control Risk Assessment
for Construction, Renovation and Maintenance

	<div>4. When the work involves or impacts potable water systems including stagnation due to reduced usage, the piping shall be flushed twice a week or isolated from the main system.</div> <div>5. Seal doors to prevent dust migration.</div> <div>6. Contain all trash and debris in the work area. Perform daily cleaning and disposal of trash (covered) from work area using an identified exit route.</div> <div>7. Any equipment, tools, or materials removed from the work area must be in sealed containers and/or cleaned of dust and debris prior to removal from the area.</div> <div>8. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area.</div> <div>9. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled.</div> <div>10. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces at least daily.</div>
Level III	<div>All control measures in Levels I and II and the following:</div> <div>1. Ensure availability of equipment for cleaning hands.</div> <div>2. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above.</div> <div>3. All barrier construction activities must be completed in a manner that prevents dust release.</div> <div>4. Barriers must be hard barriers unless temporary to install final barrier. Barrier walls shall be inspected and approved prior to the start of demolition or construction. (If VA staff cannot inspect prior to 4:30PM, then the check will be the next business day.)</div> <div>5. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type).</div> <div>6. Maintain .01 inches /water gauge negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors (unless a work specific waiver is approved by VHA's Office of Healthcare Engineering); this must be maintained continuously 24/7 for the duration of the project. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows is not required to be HEPA-filtered. Exhausting discharged air into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is prohibited.</div> <div>7. Install a differential pressure sensing device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor and document negative pressurization. The "ball in the wall" or similar apparatus are not acceptable.</div>
Level IV	<div>All control measures in Levels I, II and III and the following:</div> <div>1. Containment must include an anteroom to ensure pressure control. Anteroom must be large enough for equipment staging, cart cleaning, workers' PPE and cleaning.</div> <div>2. Worker clothing and/or PPE must be removed or clean and free of visible dust before leaving the work area anteroom. HEPA vacuuming of clothing or use of cover suits is acceptable.</div> <div>3. Workers must wear shoe covers or have a method to clean shoes in anteroom. Shoe covers must be removed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be changed immediately.</div>

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Table 6 - Minimum Infection Prevention and Control Measures Required Upon Completion of the Activity

Controls defined below shall be completed upon completion of the activity and inspected prior to terminating measures defined in Table 5.

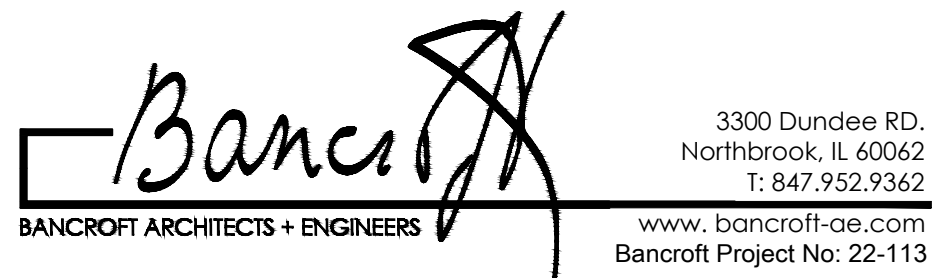
Level of Precautions	Measures
Levels I - II	<div>Cleaning:</div> <div>1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials.</div> <div>2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces.</div> <div>HVAC Systems:</div> <div>1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational.</div> <div>2. Verify the HVAC systems meet original airflow and air exchange design specifications.</div> <div>Water systems:</div> <div>1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.</div>
Levels III - IV	<div>Construction areas must be inspected by an infection preventionist and engineering representative (and others as determined by the facility) for final activity/project close out and removal of infection prevention and control measures.</div> <div>Work Area Cleaning:</div> <div>1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials.</div> <div>2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces.</div> <div>Removal of Critical Barriers:</div> <div>1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. Additional cleaning may be needed after removal of barrier.</div> <div>2. All barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers:<div><div>i. Carefully remove screws and painter tape.</div><div>ii. If dust will be generated during screw removal, use hand-held HEPA vacuum.</div><div>iii. Drywall cutting is prohibited during removal process.</div><div>iv. Clean all stud tracks with HEPA vacuum before removing outer hard barrier.</div><div>v. Use a plastic barrier to enclose area if dust could be generated.</div></div></div> <div>Negative Air Requirements:</div> <div>1. The use of negative air must be designed to remove contaminants from the work area.</div> <div>2. Negative air devices (fans, filters, monitoring and documentation equipment) must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers.</div> <div>HVAC systems:</div> <div>1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed.</div> <div>2. Verify that HVAC systems are clean and operational.</div> <div>3. Verify and document through a TAB the HVAC systems meets original airflow and air exchange design specifications.</div> <div>Water systems:</div> <div>1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.</div>

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ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP



Office of
Construction
and Facilities
Management



Drawing Title
GENERAL - INFECTION CONTROL - SAMPLE ICRA
FORMS

Approved: Project Director

Phase
ISSUE FOR BID

BUILDING FULLY
SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES - TIER 2

Location FARGO VA HEALTH CARE SYSTEM	Issue Date 01/16/2024	Checked DA	Drawn JM
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Project Number
437-21-210
Building Number

Drawing Number
GI-105

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B

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VHA Pre-Construction Risk Assessment (PCRA)

<p>exposure time (not to exceed an hour for each tile) within the shift.</p> <ul style="list-style-type: none">Minor interior updates (e.g., replacing floor or ceiling tiles, carpentry work to include hanging signage, and painting with hand tools) that do not create vibration or noise.Limited building system maintenance that does not require Lock Out Tag Out (LOTO) such as plumbing on potable systems limited to faucet replacement, steam trap replacement etc. and electrical work such as replacement of bulbs, receptacles, or switches.	<p>shop involved must work with Safety to ensure proper precautions are in place.</p> <ol style="list-style-type: none">Must address identified hazards and controls that will be implemented to ensure minimal impact to patients, employees, contractors and facility.Communication and coordination plan for all affected areas
<p>Small scale Construction, Renovation and general maintenance/repair work, generally defined as follows:</p> <ul style="list-style-type: none">Prolonged work that may take longer than a single shift but not exceeding six months.Patients and employees are not to be in the area until activity is completed.Work that creates some noise and vibration due to power tool use.Selective demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements that may<ul style="list-style-type: none">disturb asbestos, lead or silicacreate the potential for falling objectscreate vibration and/or noise in excess of 80 dB(A) in surrounding areas.cause penetrations in fire or smoke barrierPlumbing work such as the installation of new sinks, showers and toilets and associated plumbing that requires utility outages or work on the steam system that may require:<ul style="list-style-type: none">LOTOThe use of compressed gas cylindersElectrical work such as installation of conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new device such as a light fixture that require LOTO.Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit, a single device and the installation of ductwork, diffusers, and terminal units for an area that may require:<ul style="list-style-type: none">Work on laddersRigging, hoisting or lifting of equipment or materials overheadModification of existing fire alarm and suppression systems requiring system outages and ILSMs or obstruction of exits and or impact on corridors.Architectural, structural, or any other work that may cause vapors or fumes such as:<ul style="list-style-type: none">Roofing workFlooring workPainting or other large-scale use of such substances.	<p>All control measures in the row above and the following:</p> <ol style="list-style-type: none">Hazard communication chemical inventory required to be provided by the contractor and approved.Where construction, Renovation and maintenance are done in an accredited facility, and ILSM assessment is required to be done and ILSMs put into place in accordance with TJC LS.01.02.01 and the local facility policy including Fire watch if necessary. Staff is trained and the ILSM is verified regularlyHot Work or burn permits in place and staff trainedLOTO procedures in place and staff trained on their useSite visits will be reviewed using the criteria in standardized guide.Daily inspections of the site are to be conducted by the General Contractor or shop supervisor and documented on their daily log.
<p>Large-scale construction, renovation, or maintenance generally defined as follows:</p> <ul style="list-style-type: none">Work exceeding 6 months in duration.Patients and employees are not to be in the area until activity is completed.	<p>All control measures in the two rows above and the following Activity Hazard Analyses and Control Plans (check all that apply):</p> <ol style="list-style-type: none">Excavation safety plan in place <input type="checkbox"/>Dust control plan in place <input type="checkbox"/>

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VHA Pre-Construction Risk Assessment (PCRA)

<ul style="list-style-type: none">Excavation or heavy equipment use taking place<ul style="list-style-type: none">Dig safe required utility locationTrench safetyDust control planEquipment exhaust, Noise, VibrationConfined space entry required (permit required or not)Requires crane work<ul style="list-style-type: none">General crane workLift over buildingsIncludes elevated work<ul style="list-style-type: none">Roof work, fall protectionWindow work, scaffolding and fall protectionOdor controlWelding, cutting or use of torches requiring burn permitsDemolition of building components and infrastructure including removal of multiple doors, walls, framing, ceilings, flooring, piping, electrical and HVAC that may<ul style="list-style-type: none">require asbestos, lead or silica abatementcreate the potential for falling objectscreate vibration and/or noise in excess of 90 dB(A) in surrounding areas.cause breaches to fire or smoke barrierThe installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work that requires transport of significant materials through building and up elevators i.e., weight limits of floors and elevatorsPlumbing work requiring LOTO and system shutdown and startup such as the installation of:<ul style="list-style-type: none">new medical gas systems,steam/heating hot water, condensate systems,Potable water and sanitary drainage, multiple sinks, showers and toilets including associated plumbing.Electrical work such as installation of electrical feeders, distribution panels, conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. requiring LOTO and system isolation.Installation of fire alarm and suppression systems requiring outages of those systems and ILSMs or closure of exits/corridorsMechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls requiring lifting and support of equipment and systems.	<ol style="list-style-type: none">Pollution prevention plan in place <input type="checkbox"/>Dig safe paper work in place <input type="checkbox"/>Crane lift plan in place <input type="checkbox"/><ol style="list-style-type: none">Crane placementCrane swingCrane load evaluationFall protection plan in place and staff trained <input type="checkbox"/>Confined entry plan in place and staff trained <input type="checkbox"/>
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Table 2. Affected Adjacent Area Assessment

In addition to the minimum precautions noted above for the Activity Type, it is critical that the activity be coordinated with the areas adjacent to the activity to ensure operations in those areas are not disrupted or impacted. List the adjacent areas in Table 2 below and develop activity-specific coordination plans and associated communication plans with each area to address activity work that could impact or disrupt the operation of the areas, in general as follows:

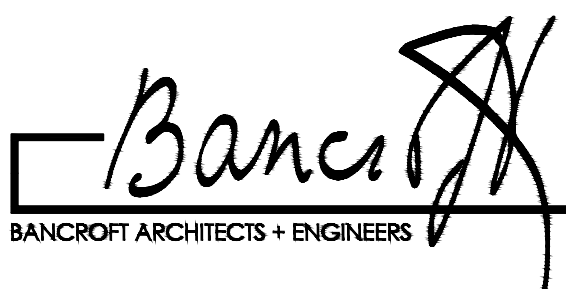


- If adjacent area is **vacant** (e.g., work outside, construction of new building, etc.):
 - Coordination is typically not necessary other than potentially traffic flow and pedestrian access.

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<div>ISSUE FOR BID</div> <div>Revisions:</div>		<div>CONSULTANT</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com Bancroft Project No: 22-113</div></div>	<div>STAMP</div> <div></div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>GENERAL - INFECTION CONTROL - SAMPLE PCRA FORMS</div> <div>Approved: Project Director</div>	<div>Phase</div> <div>ISSUE FOR BID</div> <div>BUILDING FULLY SPRINKLERED</div>	<div>Project Title</div> <div>EHRM INFRASTRUCTURE UPGRADES - TIER 2</div> <div>Location</div> <div>FARGO VA HEALTH CARE SYSTEM</div> <div>Issue Date</div> <div>01/16/2024</div> <div>Checked</div> <div>DA</div> <div>Drawn</div> <div>JM</div>	<div>Project Number</div> <div>437-21-210</div> <div>Building Number</div> <div></div> <div>Drawing Number</div> <div>GI-107</div>
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Area	Service(s)/Type(s) of Area(s) (e.g., OR, Unit/Ward, Sterile Processing, Administrative, etc)*	Point of Contact (POC)	POC Contact Information	Construction plan communicated to POC?
Activity Area**				
Area Above				
Area Below				
Adjacent Area 1				
Adjacent Area 2				
Adjacent Area 3				
Adjacent Area 4				

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ILSM Issue Date: Evaluation determines no ILSM needed

Prepared by

Reviewed By

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