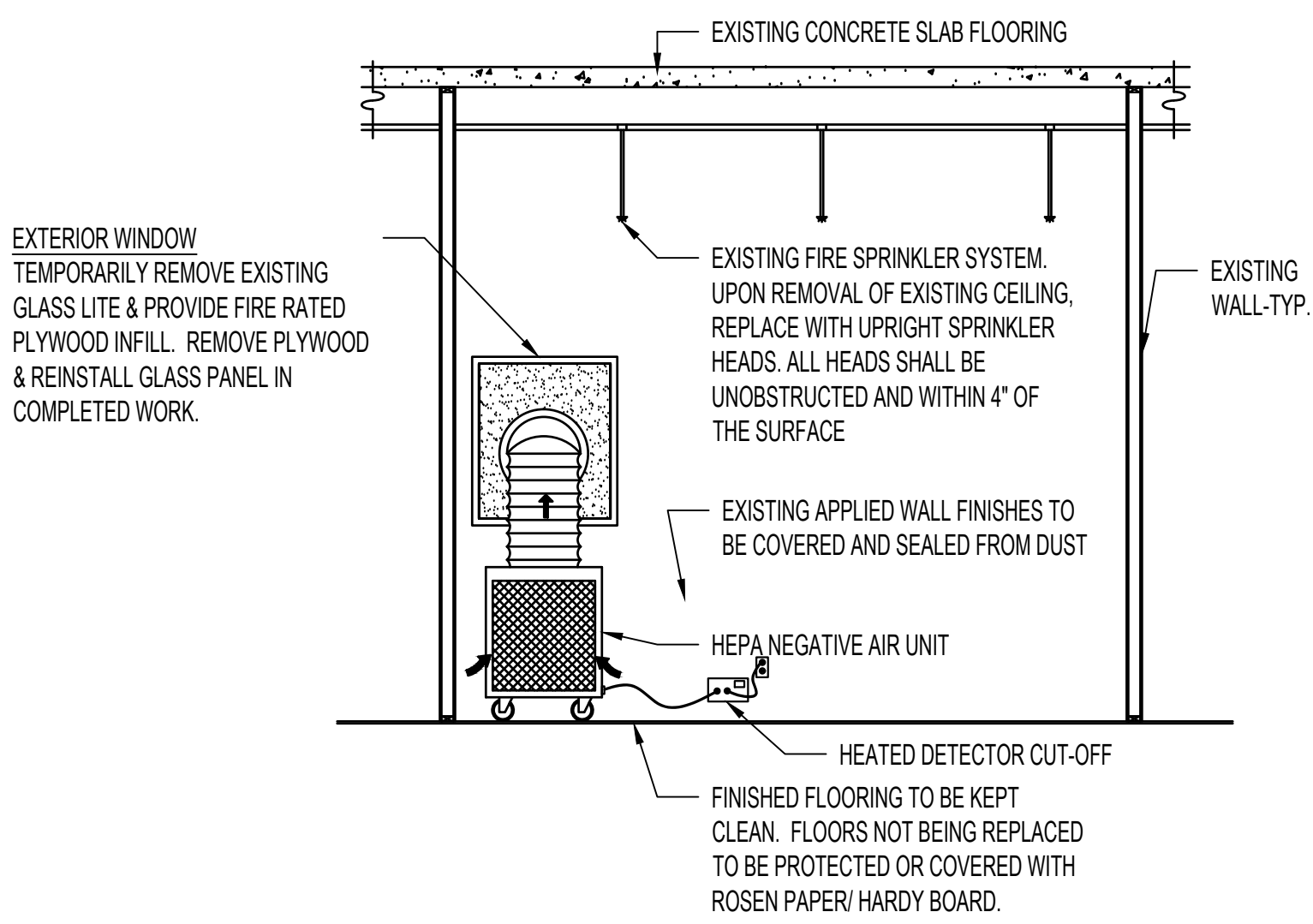
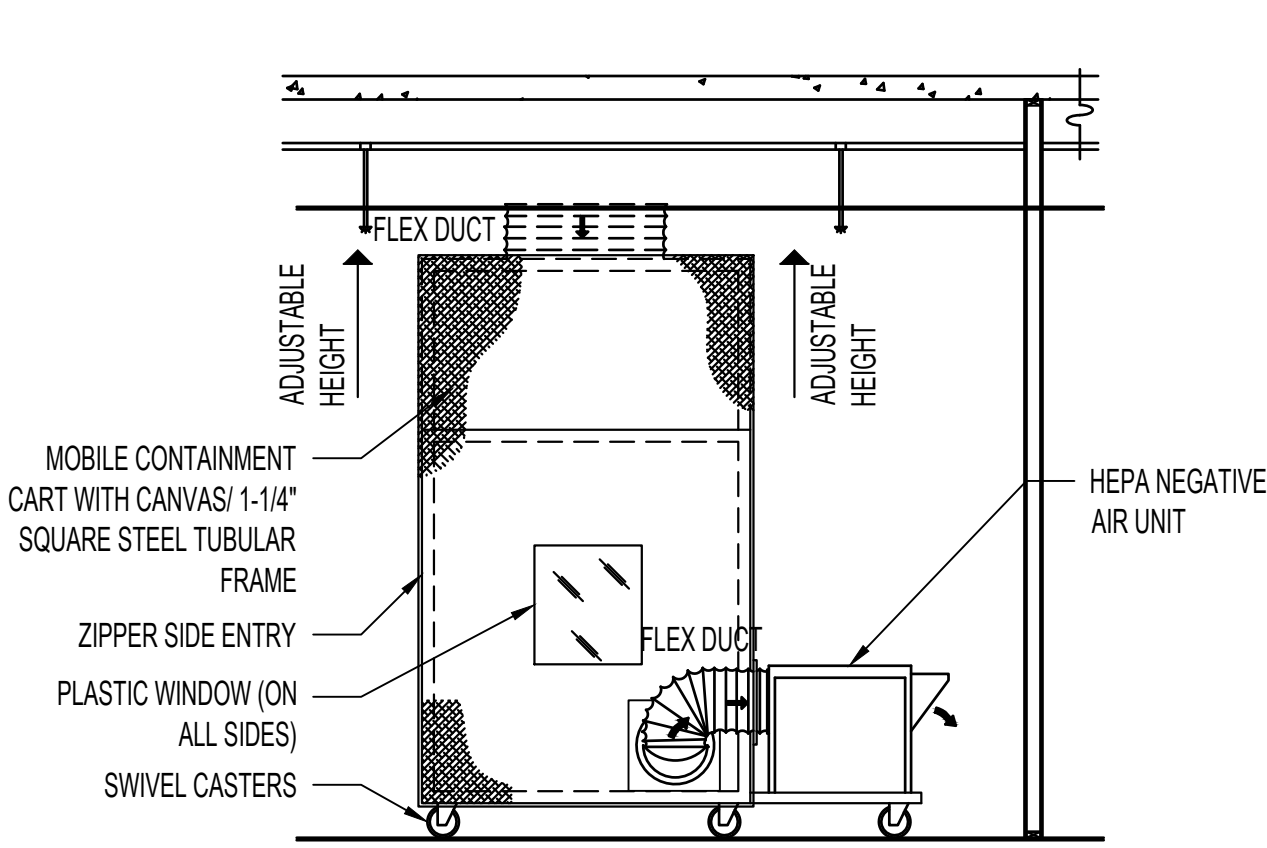


1 DIAGRAMMATIC INFECTION CONTROL CONSTRUCTION LAYOUT- CLASS IV
NTS



2 CROSS SECTION A-A
NTS

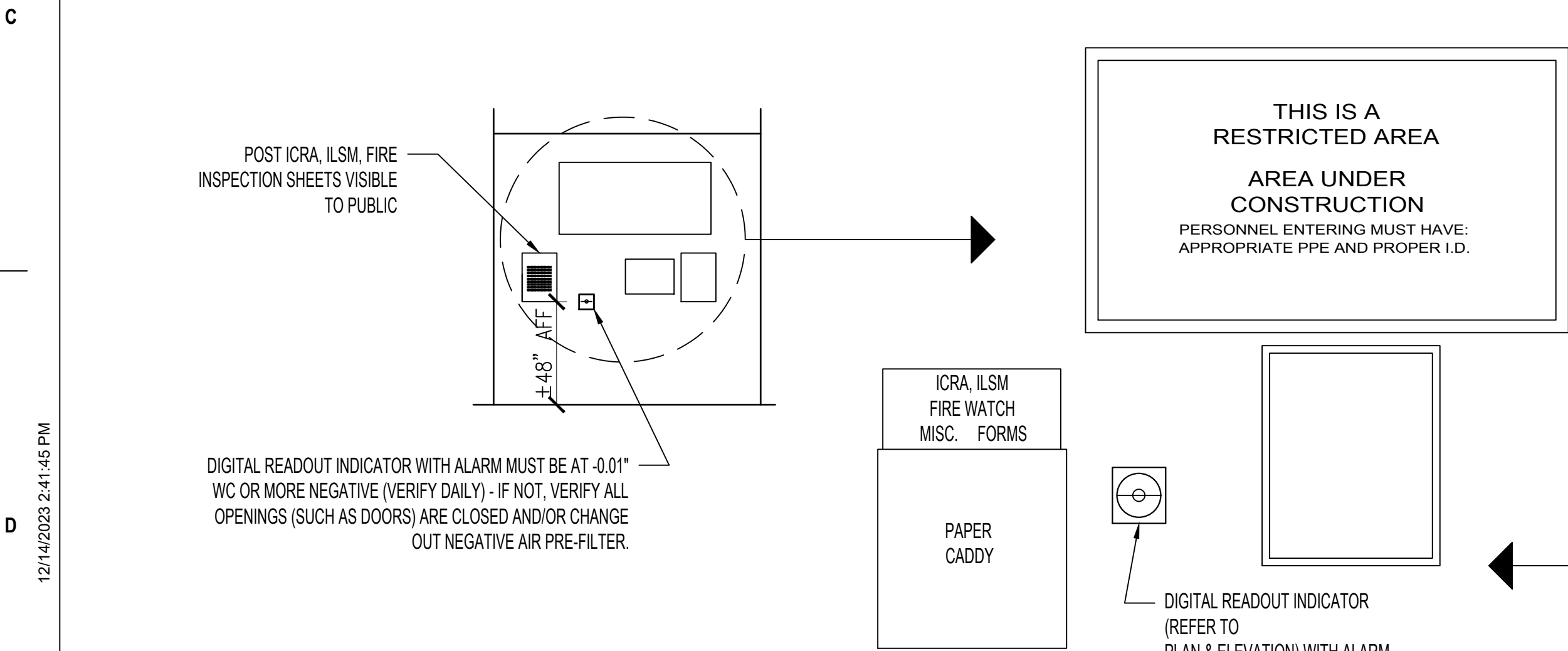


3 MOBILE CONTAINMENT CART
NTS

NOTE: MOBILE CONTAINMENT CART OUTSIDE OF THE SCOPE OF WORK AREAS SHALL BE APPROVED BY THE VA COR PRIOR TO USE.
NOTE: CONTRACTOR SHALL PROCURE, UTILIZE AND TURN OVER MOBILE CONTAINMENT CART TO THE FARO VAS.

- ### ADDITIONAL REQUIREMENTS
- SUBMIT EMERGENCY PROCEDURES TO BE POSTED, POST PCRA AND APPROPRIATE CONSTRUCTION SIGNAGE FOR LIMITED ACCESS AND PROPER PPE IN WORK AREA.
 - CONTRACTOR TO NOTIFY FARO VA HCS CO, COR, POLICE AND SAFETY OFFICE IF A FEDERAL OR STATE REGULATOR ARRIVE ONSITE TO INSPECT JOBSITE.
 - NO EATING OR DRINKING ON THE JOB SITE.
 - NO SMOKING, OR ANY USE OF NICOTINE AND VAPING THROUGHOUT THE ENTIRE CAMPUS. THIS INCLUDES THE JOBSITE, INSIDE CARS AND THE PARKING LOT.
 - CONTRACTOR MAY BE REQUIRED TO WEAR A MASK IF DIRECTED BY THE VA/COR DUE TO COMMUNITY INFECTION RATES.
 - REFER TO VA VACCINATION POLICY AND TB TESTING WITHIN THE SPECIFICATIONS.

- AREA A SHALL BE CONSIDERED LEVEL 3 ICRA
 - AREA B SHALL BE CONSIDERED LEVEL 3
 - AREA C SHALL BE CONSIDERED LEVEL 3 ICRA
 - LEVEL D SHALL BE CONSIDERED LEVEL 2 ICRA
 - ICRA AND ILSM TO BE COMPLETED BY THE VA UPON NOTIFICATION OF INTENT TO BEGIN WORK.
- NOTE: THE ABOVE ARE REFERENCED FROM GI-004.



4 ELEVATIONS
NTS

DANGER

CONSTRUCTION AREA

NO UNAUTHORIZED ACCESS

FOR EMERGENCIES DIAL 1111

Contract Company: _____

Project Manager: _____ Phone: _____

Site Supervisor: _____ Phone: _____

24-Hr Site Contact: _____ Phone: _____

VA Project # / Name: _____

VA Project Engineer: Select

M&R Foreman: ext. 3061 or ext. 3394

Police Services: ext. 3299

Category A	Inspection and/or facility upkeep generally defined as follows: <ul style="list-style-type: none">Work can be completed in a single shift, not to exceed 10 hours.Patients and/or employees may be in the area depending on the activity.Work that does not create dust or debris.Removal of ceiling tile or access to mechanical or electrical chase for visual inspection limited to 1 tile per 50 square feet with limited exposure time (not to exceed an hour for each tile) within the shift.Minor interior updates (e.g., replacing floor or ceiling tiles, carpentry work to include hanging signage, and painting without sanding) that do not create dust or debris.Limited building system maintenance such as plumbing on potable systems limited to faucet replacement etc. and electrical work such as replacement of bulbs, receptacles, or switches.
Category B	General maintenance and repair work generally defined as follows: <ul style="list-style-type: none">Prolonged inspection and work that may take longer than a single shift but not exceeding a week.Patients and employees are not to be in the area until activity is completed.Work that creates minimal dust and debris.Interior finish or surface repairs, updates, or modifications such as repair of firewalls and barriers, and new flooring that produces minimal dust and debris. Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris.Plumbing work such as installation or replacement of a single fixture or piping for a single fixture. Any work on sanitary plumbing including snaking of drains.Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new fixture such as a light fixture that produces minimal dust and debris.Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit or a single device that produces minimal dust and debris.
Category C	Small-scale construction, renovation, or maintenance generally defined as follows: <ul style="list-style-type: none">Work requiring longer than a single week to complete but not exceeding 6 months.Patients and employees are not to be in the area until activity is completed.Demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements.Demolition/removal of more than 32 ft2 of drywall/framing, hard ceilings, and doors/framing and minimal infrastructure such as electrical circuits and branch piping.Installation of new walls, ceilings and doors including framing, drywall/plaster and associated work.Plumbing work such as the installation of new sinks, showers and toilets and associated plumbing.Shut down of sections of potable water systems.Electrical 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.Modification of existing fire alarm and suppression systems.Mechanical work such as the installation of ductwork, diffusers, and terminal units for an area.
Category D	Large-scale construction, renovation, or maintenance generally defined as follows: <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.Large-scale demolition of building components and infrastructure including removal of multiple doors, walls, framing, ceilings, flooring, piping, electrical and HVAC.The installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work.Plumbing work such as the installation of:<ul style="list-style-type: none">new medical gas systems,steam/heating hot water, condensate systems,multiple sinks, showers and toilets including associated plumbing.Shutdown of potable water, steam/heating hot water, condensate, and medical gas systems.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.Installation of fire alarm and suppression systems.Electrical shutdown of multiple panels.Mechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls.

Level of Precautions	Control Measures
Level I	<ol style="list-style-type: none">Perform work activity in a manner that does not create dust.Immediately replace any ceiling tile, close access panels, etc., upon completion of work.Any materials and equipment being brought into the facility must be free of contaminants and loose material.
Level II	<p>All control measures in Level I and the following:</p> <ol style="list-style-type: none">Provide active means to control airborne dust from dispersing into occupied areas and/or water mist surface to control dust (e.g., Mobile Dust Containment Cart or some other system).Ensure worker clothing is clean and free of visible dust before leaving the work area.Remove or isolate air diffusers (supply and return) to protect the HVAC system from dust and reduce air turbulence. Rebalance system to address diffuser isolation.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.Seal doors to prevent dust migration.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.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.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.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.Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces at least daily.
Level III	<p>All control measures in Levels I and II and the following:</p> <ol style="list-style-type: none">Ensure availability of equipment for cleaning hands.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.All barrier construction activities must be completed in a manner that prevents dust release.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.)Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type).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.Install a differential pressure sensing device (e.g., manometric, 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.
Level IV	<p>All control measures in Levels I, II and III and the following:</p> <ol style="list-style-type: none">Containment must include an anteroom to ensure pressure control. Anteroom must be large enough for equipment staging, cart cleaning, workers' PPE and cleaning.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.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.

Patient Risk Category	Activity Category			
	A	B	C	D
Low Risk	I	II	II	III
Medium Risk	I	II	III	IV
High Risk	I	II	IV	IV
Highest Risk	II	III	IV	IV

Note:
An infection prevention and control permit is required for Level III and Level IV. Consult with Infection Prevention and Control for Level I and Level II.

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Office of Construction and Facilities Management

Drawing Title
GENERAL - INFECTION CONTROL CLASS IV AND GENERAL NOTES

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

ISSUE FOR BID - 01/16/2024

Project Number
437-21-210
Building Number

Drawing Number
GI-101

A

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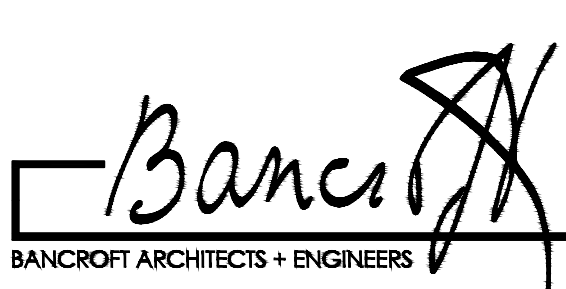
VHA Infection Control Risk Assessment
for Construction, Renovation and Maintenance


	<ul style="list-style-type: none">Interior finish or surface repairs, updates, or modifications such as repair of firewalls and barriers, and new flooring that produces minimal dust and debris. Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris.Plumbing work such as installation or replacement of a single fixture or piping for a single fixture. Any work on sanitary plumbing including snaking of drains.Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new device such as a light fixture that produces minimal dust and debris.Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit or a single device that produces minimal dust and debris.
Category C	Small-scale construction, renovation, or maintenance generally defined as follows: <ul style="list-style-type: none">Work requiring longer than a single week to complete but not exceeding 6 months.Patients and employees are not to be in the area until activity is completed.Demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements.Demolition/removal of more than 32 ft² of drywall/framing, hard ceilings, and doors/framing and minimal infrastructure such as electrical circuits and branch piping.Installation of new walls, ceilings and doors including framing, drywall/plaster and associated work.Plumbing work such as the installation of new sinks, showers and toilets and associated plumbing.Shut down of sections of potable water systems.Electrical 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.Modification of existing fire alarm and suppression systems.Mechanical work such as the installation of ductwork, diffusers, and terminal units for an area.
Category D	Large-scale construction, renovation, or maintenance generally defined as follows: <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.Large-scale demolition of building components and infrastructure including removal of multiple doors, walls, framing, ceilings, flooring, piping, electrical and HVAC.The installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work.Plumbing work such as the installation of:<ul style="list-style-type: none">new medical gas systems,steam/heating hot water, condensate systems,multiple sinks, showers and toilets including associated plumbing.Shutdown of potable water, steam/heating hot water, condensate, and medical gas systems.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.Installation of fire alarm and suppression systems.Electrical shutdown of multiple panels.Mechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls.

1 SAMPLE ICRA FORM 2 OF 7

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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

Project Number 437-21-210
Building Number
Drawing Number GI-103

VHA Infection Control Risk Assessment
for Construction, Renovation and Maintenance

Table 2 - Affected Area Assessment

Identify the areas and associated patients that will be affected by the construction/renovation/maintenance activity (see the Figure for a visual representation of adjacent affected areas).

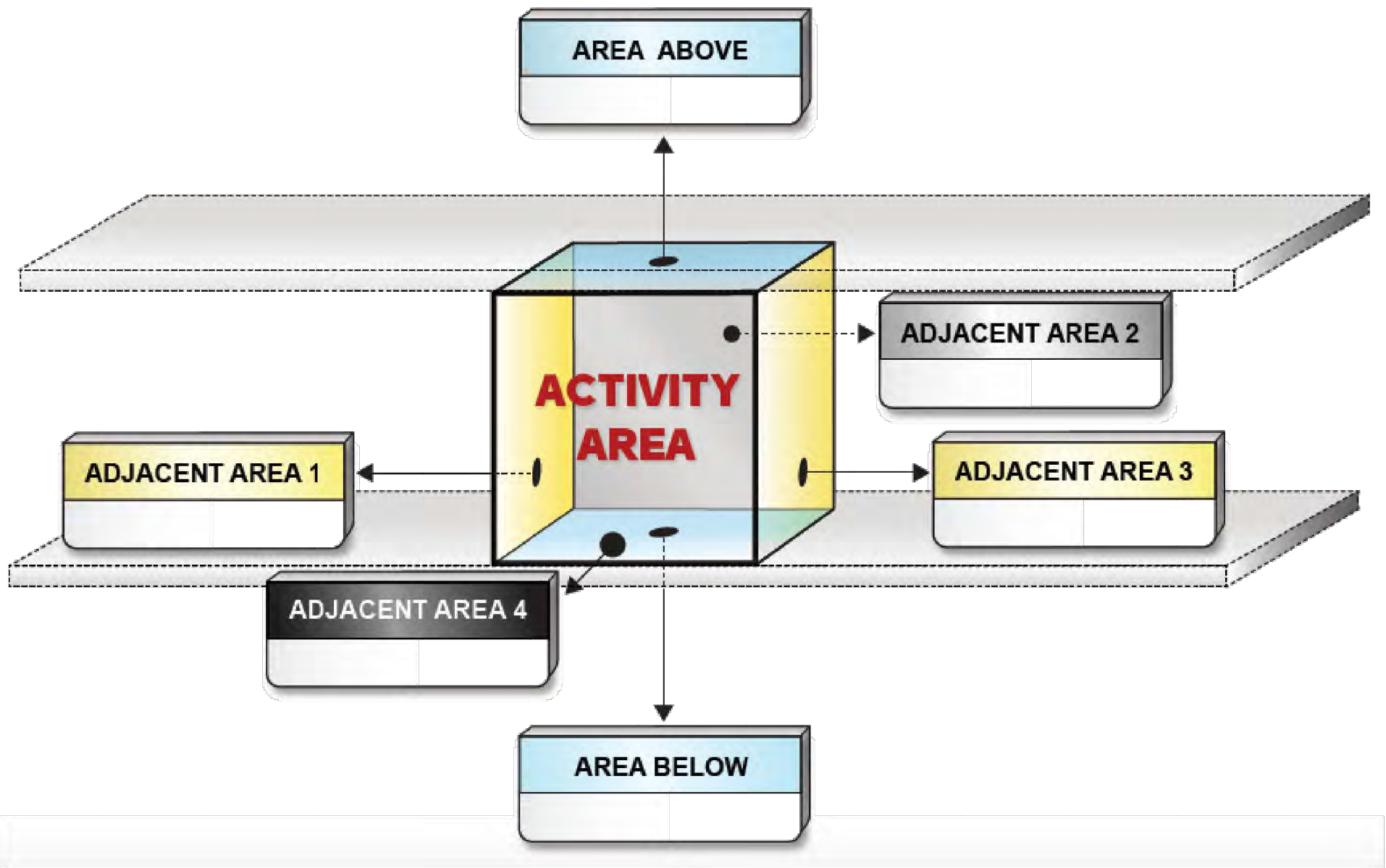


Figure: Isometric drawing of affected area assessment

Area	Service(s)/Type(s) of Area(s) (e.g., OR, Unit/Ward, Sterile Processing, Administrative, etc.)*	Point of Contact (POC)	POC Contact Information
Activity Area**			
Area Above			
Area Below			
Adjacent Area 1			
Adjacent Area 2			
Adjacent Area 3			
Adjacent Area 4			

* There may be more than one Service/type of area for each row. List all.

** List the area(s) in which the construction/renovation/maintenance activity will occur. **NOTE: When the Activity Category is B, C, or D, the control measures are determined by the Patient Risk in the adjacent affected areas.**

2 SAMPLE ICRA FORM 3 OF 7

VHA Infection Control Risk Assessment
for Construction, Renovation and Maintenance

Table 3 - Patient Risk Category

Using Table 3, identify the patient risk category for each area listed in Table 2. Of the patient risk categories identified, select the one with the greatest risk as the overall Patient Risk Category for the activity.

Overall Patient Risk Category determined from Table 3 (Low, Medium, High, or Highest):

Low Risk	Medium Risk	High Risk	Highest Risk
Non-patient care areas such as:	Patient care support areas such as:	Patient care areas such as:	Procedural, invasive, sterile support and highly compromised patient care areas such as:
<div><ul style="list-style-type: none">Public hallways and gathering areas not in clinical areasOffice areas not in clinical areasBreakrooms not in clinical areasBathrooms or locker rooms not in clinical areasMechanical/electrical rooms not in clinical areas</div>	<div><ul style="list-style-type: none">Waiting areasClinical engineering (biomedical)Materials managementSterile processing department – dirty sideKitchen, cafeteria, gift shop, coffee shop, and food kiosks</div>	<div><ul style="list-style-type: none">Patient care rooms and areas, including spinal cord injury unitsAll acute care units, including mental healthAll outpatient units and clinicsEmergency departmentCommunity Living Centers, domiciliaries, and transitional residencesEmployee healthPharmacy – general work zoneMedication rooms and clean utility roomsImaging suites – diagnostic imagingLaboratory</div>	<div><ul style="list-style-type: none">All transplant unitsAll intensive care unitsAll oncology units and chemotherapy/infusion centersOR theaters and restricted areasHemodialysis unitsProcedural rooms*Pharmacy compounding areaSterile processing department – clean sideTransfusion servicesImaging suites – interventional imagingDedicated isolation wards/units for infectious diseases</div>

* Procedural Rooms are designated for the performance of patient care activities that may require high-level disinfected or sterile instruments and some environmental controls but is not required to be performed with the environmental controls of an operating room (OR). The room is intended for procedures that are performed in an aseptic surgical field and penetrates the protective surfaces of a patient's body (e.g., subcutaneous tissue, mucous membranes, cornea) or entry into or opening of a sterile body cavity. Examples of these spaces include Cardiac Catheterization Suites, Electrophysiology Suites, Endovascular/GI Suites, Angio Suites and other spaces which may have high risk patient populations.

VHA Infection Control Risk Assessment
for Construction, Renovation and Maintenance

Table 4 - Level of Infection Prevention and Control Precautions

Match the Overall Patient Risk Category (*Low, Medium, High, Highest*) determined from Table 3 with the planned Construction/Renovation/Maintenance Activity Category (*A, B, C, D*) from Table 1 to determine the minimum Level of Infection Prevention and Control Precautions (*I, II, III, or IV*) using Table 4 below.

Level of Precautions determined from Table 4 (*I, II, III, or IV*):

Patient Risk Category	Activity Category			
	A	B	C	D
Low Risk	I	II	II	III
Medium Risk	I	II	III	IV
High Risk	I	II	IV	IV
Highest Risk	II	III	IV	IV

An infection prevention and control permit is required for Level III and Level IV. Consult with Infection Prevention and Control for Level I and Level II.

Table 5 - Required Infection Prevention and Control Measures, by Level of Precautions

Controls defined below for the Level of Precautions identified for the activity must be in place before the activity begins and maintained until work is completed and the area is activated. Control measures for each Precaution Level must also include the control measures in the preceding Level(s).

As the activity progresses, a full re-evaluation of remaining activity type and patient risk is required prior to downgrading the Level of Precautions.

Level of Precautions	Control Measures
Level I	<div><ol style="list-style-type: none">Perform work activity in a manner that does not create dust.Immediately replace any ceiling tile, close access panels, etc., upon completion of work.Any materials and equipment being brought into the facility must be free of contaminants and loose material.</div>
Level II	<div><p>All control measures in Level I and the following:</p><ol style="list-style-type: none">Provide active means to control airborne dust from dispersing into occupied areas and/or water mist surface to control dust (e.g., Mobile Dust Containment Cart or some other system).Ensure worker clothing is clean and free of visible dust before leaving the work area.Remove or isolate air diffusers (supply and return) to protect the HVAC system from dust and reduce air turbulence. Rebalance system to address diffuser isolation.</div>

1 SAMPLE ICRA FORM 4 OF 7

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VA U.S. Department of Veterans Affairs

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Phase ISSUE FOR BID
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