#### **COMPLIANCE CHECKLIST**

#### **IP15 Surgical Services**

The following checklist is intended to be used in the plan review applications for health care facilities submitted to the Massachusetts Department of Public Health. This checklist summarizes and references the applicable requirements from the Licensure Regulations and the 2022 Edition of the FGI Guidelines for Design and Construction of Hospitals. Applicants must verify compliance of the plans submitted to the Department with all referenced requirements from the Licensure Regulations and FGI Guidelines when completing this Checklist. A separate Checklist must be completed for each nursing unit, hospital or clinic department, or clinical suite.

Other jurisdictions, regulations and codes may have additional requirements which are not included in this checklist, such as:

- NFPA 101 Life Safety Code (2012) and applicable related standards contained in the appendices of the Code
- State Building Code (780 CMR)
- Accreditation requirements of The Joint Commission
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 & Regulations of the Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of the Americans with Disabilities Act (ADA)
- Architectural Access Board Regulations (521 CMR)
- Local Authorities having jurisdiction.

#### Instructions:

- 1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
- 2. This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the time of completion of the checklist.
- 3. Each requirement line (\_\_\_\_) of this Checklist must be completed exclusively with one of the following marks, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the mark "E" may be indicated on the requirement line (\_\_\_\_) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.
- **X** = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- E = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. "E" must not be used for an existing required support space associated with a new patient care room or area.
- □ = Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area.
- W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.
- 4. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
- 5. Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI Guidelines must be used for project compliance with all MEP requirements and for waiver references.
- 6. Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
- 7. Requirements referenced with "FI" result from formal interpretations from the FGI Interpretations Task Group.
- 8. The location requirements including asterisks (\*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

Facility Name:	DON Project Number: (if applicable)
Facility Address:	
Satellite Name: (if applicable)	Building/Floor Location:
Satellite Address: (if applicable)	
	Submission Dates:
Project Description:	Initial Date:
	Revision Date:

# **Building Systems Requirements**

	,		
2.2-3.4	Surgical Services		
2.2-3.4.1.1	Location & Layout:		
(4)	surgery department divided into		
	unrestricted areas, semi-restricted areas		
	& restricted areas		
(1)	semi-restricted & restricted areas of		
( )	surgery department located & arranged		
	to prevent unrelated traffic		
(2)	clinical practice setting designed to		
(2)	facilitate movement of patients &		
	personnel into through & out of defined		
	areas in surgery department		
(2)			
(3)	signs that clearly indicate need for		
	surgical attire shown on plans at all		
	entrances to semi-restricted areas		
2.2-3.4.2	PROCEDURE ROOMS		
2.2-3.4.2			
0 0 0 4 0 4(4)	☐ check if <u>not</u> included in project		
2.2-3.4.2.1(1)	Application:		
(a)	room designated for the performance of		
	patient care that requires high-level		
	disinfection or sterile instruments & some		
	environmental controls but not required to		
	be performed with the environmental		
	controls of an operating room		
	hospital has completed clinical		
	assessment of procedures to be		
	performed to determine appropriate		
	room type & location for procedures &		
	documented this in functional program		
	included in Project Narrative		
2.2-3.4.2.1(2)	Location:		
(a)	procedure room meet requirements of		
(4)	semi-restricted area		
(b)	procedure room accessed from semi-		
(5)	restricted corridor or from unrestricted		
	corridor		
2.2-3.4.2.2	Space Requirements:	Ventilation:	
(1)(a)	min. clear floor area 130 sf	Min. 15 air changes per hour	Table 7-1
(1)(b)	anesthesia machine & associated	Positive pressure	Table 7-1
(1)(0)		No recirculating room units	
	supply carts are used	Power:	
	□ check if <u>not</u> included in project		T 11 0 4 4
	min. clear floor area 160 sf	Min. 12 receptacles in total	Table 2.1-1
(1)(c)	procedure room sized to accommedate	Min 8 recentedes convenient	
(1)(c)	procedure room sized to accommodate	Min. 8 receptacles convenient	
	personnel & equipment needed for	to table placement with at least one	
	particular procedures,	on each wall	
	procedure room sized to accommodate	Nurse Call System:	Table 0.4.0
	additional personnel & equipment that	Emergency call station	Table 2.1-2
(2)(-)	may be needed for emergency rescue	Madical Casas	
(2)(a)	min. clearance 3'-6" on each side of	Medical Gases:	T-1-1-040
	table, gurney or procedural chair	1 OX, 2 VAC, 1 MA	Table 2.1-3
	min. clearance 3'-0" at head & foot of		

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table, gurney or procedural chair

# **Building Systems Requirements**

(2)(b)	anesthesia machine & associated supply carts are used min. clearance 6'-0" at head of table, gurney or procedural chair		
2.2-3.4.2.3	Documentation area accommodations for written and/or electronic documentation provided in procedure room		
2.1-2.8.3.1	work surface to support documentation process		
2.2-3.4.2.3(2)	use of documentation area allows for direct observation of patient		
2.2-3.4.2.4	_ Provisions made for patient privacy		
2.2-3.4.2.5 (1)	Handwashing Facilities: handwashing station located in procedure room or		
(2)	hand scrub station directly accessible* to procedure room		
2.2-3.4.3.1(1)	Application: Rooms designated for invasive procedures as defined in Glossary  — procedures performed in aseptic surgical field & penetrates protective surfaces of patient body, may require entry into or opening of sterile body cavity, or involve insertion of indwelling foreign body, or include excision & grafting of burns  — procedures that do not begin as invasive procedures but have recognized measurable risks of requiring conversion to invasive procedures		
(2)	<ul> <li>Operating room meets requirements of restricted area</li> </ul>		
2.2-3.4.3.2	General Operating Room □ check if <u>not</u> included in project	Ventilation: Min. 20 air changes per hour	Table 7-1
(3)	Space Requirements: (may include minor wall encroachments	Positive pressure No recirculating room units	
(1)(a) (1)(b)	max. 12" deep by max. 10% of wall length) min. clear floor area 400 sf min. clearance 8'-6" on each side	Lighting:  General lighting in addition to special lighting units provided	2.1-8.3.4.3(4)
(1)(5)	of operating table min. clearance 6'-0" at head of	at surgical table Power:	(a)
	operating table anesthesia work zone with clear floor area 6'-0" x 8'-0" min. clearance 7'-0" at foot of operating table	Min. 36 receptacles in total Min. 16 receptacles convenient to table placement Min. 2 on each wall Nurse Call System:	Table 2.1-1
	,	Emergency call station Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-2 Table 2.1-3

# **Building Systems Requirements**

2.2-3.4.3.3	Documentation area		
(1)	accommodations for written and/or		
(2)	electronic documentation		
(2)	use of documentation area allows for direct observation of patient		
	an out observation of patient		
2.2-3.4.3.4	Visual information display		
	at least one medical visual information display provided in operating room		
	display provided in operating room		
2.2-3.4.3.5(3)	Communications System:		
(a)	all operating rooms are equipped with		
	emergency communication system that		
	incorporates push activation of emergency call switch		
(b)	each operating room have system for		
	emergency communication with surgery		
	department control station		
(2)	Operating room for image-guided surgery		
(2)	☐ check if <u>not</u> included in project		
	Space Requirements:	Ventilation:	
(3)	(may include minor wall encroachments	Min. 20 air changes per hour	T.I.I. 7.4
	of max. 12" deep by max. 10% of wall length)	Positive pressure No recirculating room units	Table 7-1
	uses portable imaging equipment	Lighting:	
	or surgical procedures that require	General lighting in addition to	2.1-8.3.4.3(4)
	additional personnel and/or large	special lighting units provided	(a)
(a)	equipment	at surgical table Power:	
(4)	sized to accommodate personnel	Min. 36 receptacles in total	Table 2.1-1
	& equipment planned to be in	Min. 16 receptacles	
	room during procedures	convenient to table placement Min. 2 on each wall	
	New Construction & Major	Nurse Call System:	
	Renovations:	Emergency call station	Table 2.1-2
	min. clear floor area 600 sf	Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1.3
	min. clear dimension 20'-0"	2 0X, 3 VAO, 1 WA, 1 WAOD	Table 2.1-5
	or		
(b)	Limited Renovations:		
	min. clear floor area 500 sf		
	min. clear dimension 20'-0"		
2.2-3.4.3.3	Documentation area		
(1)	accommodations for written and/or		
· /	electronic documentation		
(2)	use of documentation area allows for		
	direct observation of patient		
2.2-3.4.3.4	Modical image viewers (s. s. V. sev. films as alleritally		
2.2-3.4.3.5(3)	Medical image viewers (e.g. X-ray film or digital) Communications System:		
0. 1.0.0(0)	Communications Cyptom.		

# **Building Systems Requirements**

(a)	<ul> <li>all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch</li> </ul>		
(b)	each operating room have system for emergency communication with surgery department control station		
2.2-3.4.3.6	Equipment storage rooms for open-heart or complex orthopedic & neurosurgical surgery provided in semi-restricted area		
2.2-3.4.4	HYBRID OPERATING ROOM  ☐ check if not included in project		
2.2-3.4.4.1	Application: hybrid operating rooms (Class 3		
2.2-3.4.4.2 2.2-3.4.3.2 (3) (1)(a) (1)(b)	imaging rooms)  Space Requirements: (may include minor wall encroachments max. 12" deep by max. 10% of wall length)  min. clear floor area 400 sf min. clearance 8'-6" on each side	Ventilation:  Min. 20 air changes per hour  Positive pressure  No recirculating room units Lighting:	Table 7-1
	of operating table min. clearance 6'-0" at head of operating table	General lighting in addition to special lighting units provided at surgical table  Power:	2.1-8.3.4.3(4) (a)
	anesthesia work zone with clear floor area 6'-0" x 8'-0" min. clearance 7'-0" at foot of operating table	Min. 36 receptacles in total Min. 16 receptacles convenient to table placement Min. 2 on each wall	Table 2.1-1
2.2-3.4.4.2(1)	<ul> <li>clear floor area, clearance &amp; storage</li> <li>requirements for imaging equipment</li> <li>contained in room</li> </ul>	Nurse Call System: Emergency call station	Table 2.1-2
2.2-3.4.4.2(2)	any mobile storage units do not encroach on required clear floor area & clearances	Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-3
2.2-3.4.2.2(1)	imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review		
2.2-3.4.3.3	Documentation area		
(1)	accommodations for written and/or electronic documentation		
(2)	use of documentation area allows for direct observation of patient		
2.2-3.4.3.4	Medical image viewers (e.g. X-ray film or digital)		

# **Building Systems Requirements**

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2.2-3.4.3.5(3) (a)	Communications System:  all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch
(b)	<ul> <li>each operating room have system for emergency communication with surgery department control station</li> </ul>
2.2-3.4.4.3	Control room
(1)	sized & configured in compliance with manufacturer recommendations for installation service & maintenance
(2)	control room physically separated from hybrid operating room with walls & door or
	open control area serves only one operating room & is built maintained & controlled same as operating room
(4)	view panels that provide for view of patient & surgical team
2.2-3.4.4.4	Structural Support: floor & ceiling structures designed to support weight of imaging equipt as well as other fixed ancillary equipt & movable ancillary equipt
2.2-3.4.4.5	Hybrid operating room protected from disruptive environmental vibrations & other disturbances in accordance with imaging equipment manufacturer's technical specifications
2.2-3.4.4.6	System component room
2.2-3.4.2.5(1)	Location:
(a)	accessed only from unrestricted or semi-restricted space outside
2.2-3.4.2.5(2)	imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer
(a)	transformers
(b)	power distribution equipment
(c)	power conditioning/UPS equipment
(d)	computers
(e)	associated electronics & electrical gear

# **Building Systems Requirements**

2.2-3.4.4.7 2.2-3.4.1.3	Radiation Protection:  ☐ check if not included in project (only if imaging equipment does not emit ionizing radiations)  ☐ certified radiation physicist has specified type, location & amount of radiation protection  ☐ specifications of radiation shielding have been submitted to DPH Radiation Control Program
2.2-3.4.4.8	Specific requirements for hybrid operating rooms with intraoperative computerized tomography (CT) systems:  □ check if not included in project
2.2-3.4.4.8(1)	□ check if <u>not</u> included in project
2.2-3.4.1.3(1)	Shielded control room
(a)	Space Requirements:
	sized & configured according to
(a)	manufacturer recommendations
(c)	shielded view window designed to provide full view of
	patient at all times (use of
	additional closed-circuit video
/ IV	monitoring permitted)
(d)	control room enclosed with
	walls & door
2.2-3.4.4.8(2)	Specific Requirements for Hybrid Operating
	Rooms with Intraoperative MRI Systems:
000454	☐ check if <u>not</u> included in project
2.2-3.4.5.1	Planning Configuration of MRI Suite:
2.2-3.4.5.1 (1)	Planning Configuration of MRI Suite: conforms to 4-zone screening &
	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology
	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology Zone I: all areas that are
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	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology Zone I: all areas that are freely accessible to the general public Zone II: interface between the publicly accessible uncontrolled Zone I & strictly controlled Zone III (space for screening questions, patient histories, medical insurance questions) Zone III: no free access by
	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology Zone I: all areas that are freely accessible to the general public Zone II: interface between the publicly accessible uncontrolled Zone I & strictly controlled Zone III (space for screening questions, patient histories, medical insurance questions) Zone III: no free access by unscreened persons or non-
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	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology Zone I: all areas that are freely accessible to the general public Zone II: interface between the publicly accessible uncontrolled Zone I & strictly controlled Zone III (space for screening questions, patient histories, medical insurance questions) Zone III: no free access by unscreened persons or non- MRI personnel due to interactions between persons or equipment & MRI scanner

# **Building Systems Requirements**

(2)	<ul> <li>MRI suite as well as spaces around,</li> <li>above &amp; below designed to prevent</li> <li>unscreened individuals from</li> <li>entering 5-gauss volume around</li> <li>MRI equipment</li> </ul>
(3) (a)	Specific Support Areas for MRI Suite: space for patient interviews &
(b)	clinical screening
(c)	<pre> space for physical screening ferromagnetic (only) detection &amp;     warning systems</pre>
(d)	access controls
(e)	space to accommodate site-specific clinical & operational requirements such as image-guided procedures emergent imaging or general anesthesia support  □ check if not included in project
(f)	space for containment of non-MRI- safe objects outside restricted MRI safety zones
(g)	space for storage (patient lockers) of patient belongings & non-MRI- safe items
(4)	any area in which magnetic field strength is equal to or greater than 5 gauss is physically restricted by use of key locks or pass-key locking systems
2.2-3.4.5.4	MRI control room
(1)	operator console positioned so operator has full view of principal approach & entrance to MRI
(2)	scanner room outward-swinging door □ check if not included in project
	door in open position does not obstruct view of entry opening from operator's console
2.2-3.4.1.3(1)	Space Requirements:
(a)	sized & configured according to
	manufacturer's recommendations installation plans from manufacturer have been submitted to DPH Plan Review
2.2-3.4.1.3(1)	shielded view window designed to
(c)	provide full view of examination/ procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)
2.2-3.4.1.3(1)	control room enclosed with walls &
(d)	door
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### 2.2-3.4.5.9 Special Design Elements for MRI Scanner Room: (1)(a)ferromagnetic materials that may become detached or otherwise interfere with operation of MRI scanner are not used in MRI scanner rooms MRI scanner room be located (1)(b)and/or shielded to avoid electromagnetic interference from elevators or other electromagnetic equipment (2)(a)floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field & mitigate disruptive environmental vibrations (2)(b)MRI rooms be marked with lighted sign with red light to indicate that magnet is always on acoustic control provided to (2)(c)mitigate noise emitted by MRI scanner per Table 1.2-6 2.2-3.4.4.8(3) Specific Requirements for Hybrid Operating Rooms with Vascular Imaging Systems: ☐ check if not included in project Shielded control alcove or room 2.2-3.4.1.3(1) Space Requirements: (a) sized & configured according to manufacturer's recommendations (c) shielded view window designed to provide full view of examination/ procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted) (d) control room enclosed with walls &

door

### **Building Systems Requirements**

2.2-3.5.5.3
(1)
(a)
. ,
(b)
,
(c)
( )
(d)
( )
(2)
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# **Building Systems Requirements**

2.2-3.4.5 2.1-3.4.1.1	PRE- & POSTOPERATIVE PATIENT CARE AREAS
2.1-3.4.1.1	Patient care stations accommodate lounge chairs, gurneys or beds for pre- & post-procedure (recovery) patient care
	Patient care stations accommodate seating space for family/visitors
2.1-3.4.1.2	Location in unrestricted area
2.1-3.4.1.3(2)	Layout:
(a)	combination of pre- & post-procedure patient care stations in one area patient care stations combined in
	same area meet most restrictive requirements of areas to be combined
	or
(b)	separate pre-procedure patient care area & post-procedure recovery area
	<ul> <li>patient care stations combined in same area meet most restrictive requirements of areas to be combined</li> </ul>
	or
(c)	three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) & Phase II recovery area
2.1-3.4.1.4	Number of Patient Care Stations:
(1)	pre- & post-procedure patient care
, ,	stations are combined into one patient care area
	☐ check if <u>not</u> included in project at least two patient care stations
	for each operating room
(2)	<ul><li>separate pre-procedure &amp; recovery areas</li><li>check if not included in project</li></ul>
2.1-3.4.3	pre-procedure patient care room or area provides at least one patient care station per imaging room, procedure room or operating room
2.1-3.4.4	Phase I post-anesthetic care unit (PACU) provides minimum of one Phase I patient care station per Class 3 imaging or operating room
2.1-3.4.5	Phase II recovery room(s) or area minimum of one Phase II patient care station per operating room

# **Building Systems Requirements**

2.1-3.4.2.2	Space Requirements:		
(2)(a)	patient care bays	Ventilation:	
	☐ check if <u>not</u> included in project	Min. 6 air changes per hour	Table 7-1
		No recirculating room units Power:	
	min. clearance 5'-0" between sides of	Min. 8 receptacles in total	Table 2.1-1
	patient beds/gurneys/lounge chairs min. clearance 3'-0" between sides	convenient to head of gurney	14510 2.1 1
	of patient beds/gurneys/lounge	or bed	
	chairs & adjacent* walls or partitions	Nurse Call System:	
	min. clearance 2'-0" between foot	Emergency call station	Table 2.1-2
	of patient beds/gurneys/lounge	Medical Gases:	
	chairs & cubicle curtain	1 OX, 3 VAC, 1 MA per station	Table 2.1-3
(0) (1)			
(2)(b)	patient care cubicles		
	$\square$ check if <u>not</u> included in project	Tyr me	
	min. clearance 3'-0" between sides	Ventilation:	Table 7-1
	of patient beds/gurneys/lounge	<ul><li>Min. 6 air changes per hour</li><li>No recirculating room units</li></ul>	Table 7-1
	chairs & adjacent* walls or partitions min. clearance 2'-0" between foot	Power:	
	of patient beds/gurneys/lounge	Min. 8 receptacles in total	Table 2.1-1
	chairs & cubicle curtain	convenient to head of	
		gurney or bed	
		Nurse Call System:	T-1-1-040
		Emergency call station Medical Gases:	Table 2.1-2
		1 OX, 3 VAC, 1 MA per station	Table 2.1-3
	bays or cubicles face each other	1 OX, 3 VAO, 1 WA per station	
	□ check if not included in project		
	aisle with min. clearance 8'-0"		
	independent of foot clearance		
	between patient stations or other		
	fixed objects		
(2)(c)	single-patient rooms		
	$\square$ check if <u>not</u> included in project	[	
	min. clearance 3'-0" between sides	Ventilation:	Table 7.1
	& foot of beds/gurneys/lounge chairs & adjacent* walls or partitions	Min. 6 air changes per hour No recirculating room units	Table 7-1
	chairs & adjacent waits of partitions	Power:	
		Min. 8 receptacles in total	Table 2.1-1
		convenient to head of	
		gurney or bed	
		Nurse Call System:	T-bl- 0.4.0
		Emergency call station Medical Gases:	Table 2.1-2
		1 OX, 3 VAC, 1 MA per station	Table 2.1-3
2.1-2.4.2	Airborne infection isolation (AII) room in	, , , ,	-
	pre-procedure & recovery areas		
2.1-2.4.2.2	complies with requirements applicable	Ventilation:	
(=)	to single-patient rooms	Min. 12 air changes per hour	Table 7-1
(2)	personal protective equipment (PPE)	Exhaust	
(3)	storage at entrance to room	<ul><li>Negative pressure</li><li>No recirculating room units</li></ul>	
(-/	handwashing station		

# Architectural Requirements Building Systems Requirements

(4)	patient toilet room serves only one AII room	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
2.1-2.4.2.3 (1)	anteroom  check if <u>not</u> included in project  provides space for persons to don personal protective equipment (PPE) before entering patient room	Ventilation: Min. 10 air changes per hour Exhaust No recirculating room units	Table 7-1
(2)	all doors to anteroom have self-closing devices  or  audible alarm activated when AII room is in use as isolation room	No recirculating room units	
(3)(a) (3)(b) (3)(c)	handwashing station storage for unused PPE disposal/holding container for used PPE		
2.1-2.4.2.4 (1)(a)	Architectural Details & Furnishings: perimeter walls ceiling & floor including penetrations constructed to prevent air exfiltration		
(1)(b)	or self-closing devices on all room exit doors activation of audible alarm when AII room is in use as isolation room		
2.1-2.4.2.5	edge seals provided along sides & top of doorframe for any door into AII room		
2.1-3.4.2.4 2.1-2.1.2	room pressure visual or audible alarm  Patient Privacy:  provisions are made to address patient  visual & speech privacy		
2.1-3.4.2.5 2.1-2.8.7.1	Handwashing stations located in each room where hands-on		
2.1-2.8.7.3	patient care is provided handwashing station serves multiple patient care stations		
(1)	☐ check if <u>not</u> included in project at least 1 handwashing station for every 4 patient care stations or fewer		
(2)	& for each major fraction thereof handwashing stations evenly distributed		

#### **Architectural Requirements Building Systems Requirements** 2.1-3.4.4.2 At least one route of patient transport provides direct access from semi-restricted area of surgical suite to Phase I recovery area without crossing public corridors 2.1-3.4.4.3 Design of Phase I recovery area provides observation of all patient care stations from nurse station 2.2-3.4.5.8 **SUPPORT AREAS FOR PRE- &** POST-OPERATIVE PATIENT CARE AREAS 2.2-3.4.5.8(1) General support areas in this section are provided in or directly accessible\* to pre- & postoperative patient care areas 2.2-3.4.5.8(2) 2.1-2.8.2 Nurse station 2.1-2.8.2.1(1) space for counters 2.1-2.8.2.1(2) handwashing station next to or directly accessible\* or hand sanitation dispenser next to or directly accessible\* 2.1-2.8.2.2 Center for reception & communication self-contained combined with administrative center or nurse station 2.1-2.8.3 Documentation area 2.1-2.8.3.1 work surface to support documentation process 2.2-3.4.5.8(7) Clinical sink 2.2-3.4.5.8(8) Medication safety zone (a) provided in postoperative patient care areas 2.1-2.8.8.1(2) Design Promoting Safe Medication Use: (a) medication safety zones located out of circulation paths (b) Lighting: work space designed so that staff can access information & perform Task-specific lighting level 2.1-2.8.8.1(2)(d) required tasks min. 100 foot-candles (c) work counters provide space to perform required tasks sharps containers placed at height (e)

MDPH/DHCFLC 12/24 IP15

that allows users to see top of

max. 45 dBA noise level caused

container

by building systems

(f)

	Architectural Requirements	Building Systems Requirements	
2.1-2.8.8.2(1)	medication preparation room		
(a)	under visual control of nursing staff	Ventilation:	
(b)	work counter	Min. 4 air changes per hour	Table 7-1
` ,	handwashing station	Lighting:	
	lockable refrigerator	Task lighting	2.1-2.8.8.1(2)(d)
	locked storage for controlled drugs		
	sharps containers		
	sharps containers  ☐ check if <u>not</u> included in project		
(c)	self-contained		
(0)	medication-dispensing unit		
	□ check if <u>not</u> included in project		
	room designed with space to		
	prepare medications		
	or		
2.1-2.8.8.2(2)	automated medication-dispensing unit		
(a)	located at nurse station, in clean	Lighting:	
	workroom or in alcove	Task lighting	2.1-2.8.8.1(2)(d)
(c)	handwashing station or hand		
	sanitation dispenser located next		
	to stationary medication- dispensing units or stations		
2.2-3.4.5.8(9)	Nourishment area	Ventilation:	
2.2 0.4.0.0(0)	<del></del>	Min. 2 air changes per hour	Table 7-1
2.1-2.8.9.2(1)	provided in unrestricted patient care area	Will. 2 dil Glanges per noul	Table 7-1
2.1-2.8.9.2(1)	handwashing station		
2.1-2.8.9.2(2)	work counter		
2.1-2.8.9.2(4)	refrigerator		
2.1-2.8.9.2(4)	microwave		
2.1-2.8.9.2(6)	storage cabinets		
2.1-2.0.3.2(0)	space for temporary storage of food service implements		
2.1-2.8.9.3	provisions & space for separate		
2.1 2.0.0.0	temporary storage of unused meal trays		
2.1-2.8.9.4	provisions & space for soiled meal trays		
2.2-3.4.5.8(10)	Ice-making equipment		
(b)	not located in semi-restricted area		
2.2-3.4.5.8(12)			
2.2-3.4.7.12	Soiled workroom or soiled holding room		
(1)(a)	(may be combined with Decontamination		
(1)/b)	Room in Sterile Processing Facility)		
(1)(b)	separate soiled workrooms or holding rooms for unrestricted area and semi-		
	restricted area		
	or		
	soiled workroom or holding room		
	shared between unrestricted area and		
	semi-restricted area		
	direct access provided from semi-		
	restricted area		
	separate entrance provided from		
	unrestricted area		

	Architectural Requirements	Building Systems Requirements	
(c)	soiled workroom or holding room do not have direct connection with operating rooms or other sterile activity rooms		
2.1-2.8.12.2	soiled workroom	Ventilation:	
(1)(a)	handwashing station	Min. 10 air changes per hour	Table 7-1
(1)(b)	flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture	<ul><li>Exhaust</li><li>Negative pressure</li><li>No recirculating room units</li></ul>	
(1)(c)	work counter		
(1)(d)	space for separate covered containers for waste & soiled linen		
(2)	fluid management system is used  ☐ check if <u>not</u> included in project		
(a)	electrical & plumbing connections that meet manufacturer requirements		
(b)	space for docking station		
2.1-2.8.12.3	or soiled holding room	Ventilation: Min. 10 air changes per hour	Table 7-1
(1)	handwashing station or hand sanitation station	Exhaust Negative pressure	
(2)	space for separate covered	No recirculating room units	
	containers for waste & soiled linen		
2.2-3.4.7.12(3) (b)	other provisions for disposal of liquid waste are made		
2.2-3.4.5.9	SUPPORT AREAS FOR STAFF		
	Staff toilet room located in postoperative		
	patient care area to maintain staff availability to patients		
2.2-3.4.5.10	SUPPORT AREAS FOR PATIENTS & VISITORS		
(1)	Patient toilet room		
(a)	Location:		
	directly accessible* to pre- & postoperative patient care area		
Errata	private toilet room directly		
	accessible* from each pre- &		
	postoperative single-patient room		
	used for Airborne Infection Isolation		
	☐ check if <u>not</u> included in project		
	(only if no AII rooms are provided in		
(b)	pre- & post-operative areas) Number:		
(b)	number: one patient toilet for each eight		
	patient care stations or fewer & for each major fraction thereof		

### **Building Systems Requirements**

	Architectural Requirements	Building Systems Requirements
2.2-3.4.6 2.2-3.4.6.2	SUPPORT AREAS IN SEMI-RESTRICTED AREA	
(1)	Nurse or control stations	
(1)	access through all entries to semi- restricted area must be controlled	
(2)	nurse or control station located in semi-	
( )	restricted area	
	or	
	nurse or control station located in	
	unrestricted area	
	directly accessible* to semi-restricted	
15.	area	
(3)	nurse or control station permits direct or	
	remote visual observation of traffic into the semi-restricted area	
	and defin restricted area	
2.2-3.4.6.6	Hand scrub facilities	
2.1-2.8.6.1	at least one hand scrub position for	
	each operating room	
	located next to entrance to each room	
2.1-2.8.6.2	(one hand scrub station consisting of two scrub positions may be shared if	
	located adjacent* to entrance of each	
	room)	
2.1-2.8.6.3	placement of scrub station does not	
	restrict min. required corridor width	
2.2-3.4.6.13(1)	Emergency equipment storage	
2.1-2.8.13.4(1)	each patient care unit has at least one	
( )	emergency equipment storage location	
2.1-2.8.13.4(2)	provided under visual observation of staff	
2.1-2.8.13.4(3)	storage locations in corridors do not	
	encroach on minimum required	
	corridor width	
(2)	Bed or gurney storage	
(-)	storage provided for bed or gurney on	
	which the patient is transported to the	
	operating room or the bed or gurney to	
(a)	be used for transportation after surgery storage area (e.g. corridor alcove) is	
()	located in the semi-restricted area	
	adjacent to operating room	
(c)	bed storage area is in addition to clean	
	equipment and clean & sterile supply storage	
2.2-3.4.6.14	Environmental services room	
(1)	not shared with other areas	
(2)	accessed from semi-restricted corridor	
2.1-2.8.14.2(1)	service sink or floor-mounted mop sink	
2.1-2.8.14.2(2)	provisions for storage of supplies &	Ventilation:
	housekeeping equipment	Min. 10 air changes per hour Table 7-1

	Architectural Requirements	<b>Building Systems Requirements</b>
2.1-2.8.14.2(3)	handwashing station or hand sanitation station	<ul><li>Exhaust</li><li>Negative pressure</li><li>No recirculating room units</li></ul>
2.2-3.4.6.15	"SATELLITE" STERILE PROCESSING FACILITIES  ☐ check if not included in project	
2.1-5.1.2	(only if hospital includes a Central Processing Department or if contractual arrangements are made for off-site processing and support areas for off-site processing are provided in hospital)	
2.1-5.1.2.1(2)	Sterile processing facility meet requirements of semi-restricted area	
2.1-5.1.2.1(3)	Layout: sterile processing facilities designed to provide one-way traffic pattern	
2.1-5.1.2.2	Two-room sterile processing facility □ check if <u>not</u> included in project	
(1)(a)	decontamination room & clean workroom physically separated by wall containing door or pass-through window  or built-in washer/disinfector with	
(1)(b)	pass-through door or window  Sterilizer access room for maintaining equipment	
(2)	☐ check if <u>not</u> included in project	
(2) (a)	Decontamination room sized to meet min. equipment space & clearances needed for equipment used	Ventilation: Min. 6 air changes per hour Table 7-1
(b)	equipment shown on plans work counter(s)	Exhaust Negative pressure
	handwashing station three-basin sink with counter	No recirculating room units
	flushing-rim clinical sink or equivalent fixture	
	alternative methods for disposal of bio-waste	
	space for waste & soiled linen receptacles documentation area	
	instrument air outlet for drying instruments or	
	portable compressed air for drying instruments	
	storage for decontamination supplies & personal protective equipment (PPE)	

	Architectural Requirements	<b>Building Systems Requirements</b>	
(3) (a) (b)	Clean workroom sized to accommodate sterilization equipment used equipment shown on plans work counter handwashing station storage for sterilization supplies documentation area instrument air outlet for drying instruments	Ventilation: Min. 4 air changes per hour Positive pressure No recirculating room units	Table 7-1
	or portable compressed air for drying instruments cooling area for sterilization cart □ check if not included in project		
(4)	Sterile storage (provided for storage of	V (1) (1)	
(a)	sterile instruments & supplies) area part of clean workroom or separate storage room	Ventilation: Min. 4 air changes per hour Positive pressure	Table 7-1
(b)	<ul><li> space for case cart storage</li><li>□ check if <u>not</u> included in project</li><li>(only if case carts are not used)</li></ul>		
2.1-5.1.2.3	<ul> <li>One-room sterile processing facility</li> <li>□ check if not included in project</li> <li>consists of decontamination area &amp;</li> </ul>		
(b)	clean work area two entrances  or single entrance located approximately equidistant from clean & decontamination sides of room allows for one-way traffic flow		
(2) (a)	decontamination area countertop two-basin sink for washing instruments handwashing station separate from instrument-washing sink storage for supplies instrument air outlet for drying instruments or	Ventilation: Min. 6 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
	portable compressed air for drying instruments		

	Architectural Requirements	Building Systems Requirements
(b)	instrument-washing sink separated from clean work area by 4'-0" foot distance from edge of sink  or instrument-washing sink separated from clean work area by wall  or instrument-washing sink separated from clean work area by screen screen extends min. 4'-0" above sink rim	
(3) (a) (b) (c) (d)	clean work area countertop sterilizer storage for supplies instrument air outlet for drying instruments  or portable compressed air for drying instruments	Ventilation:  Min. 4 air changes per hour Positive pressure No recirculating room units  Table 7-1
2.1-5.1.2.4 (1)	Equipment & supply storage instrument & supply storage provided for sterile & clean instruments & supplies	Ventilation: Min. 4 air changes per hour Table 7-1 Positive pressure
(a)	separate room or portion of clean workroom	
(b)	<ul> <li>space for case cart storage</li> <li>check if <u>not</u> included in project</li> <li>(only if case carts are not used in facility)</li> </ul>	
(2)	clean/sterile medical/surgical supply receiving room	Ventilation: Min. 4 air changes per hour Table 7-1 Positive pressure
2.1-5.1.2.5 (1)(a)	Support Areas for Staff:  separate changing areas provided for male & female staff (unisex changing area with one or more private changing rooms is permitted)	
(1)(b) (1)(c)	<ul> <li>staff changing areas meet requirements         of unrestricted area (may be shared         with other departments or services)</li> </ul>	
(2)(a) (2)(b)	lockers toilet room	Ventilation:
(-)(-)	tollot room	Min. 10 air changes per hour Table 7-1
(2)(c)	handwashing station	Exhaust Negative pressure No recirculating room units
(2)(d)	space for donning surgical attire	
(2)(e)	provision for separate storage of clean & soiled work attire	

#### **Architectural Requirements Building Systems Requirements** 2.2-3.4.7 SUPPORT AREAS DIRECTLY ACCESSIBLE TO SEMI-RESTRICTED AREA 2.2-3.4.7.12 Soiled workroom or soiled holding room (c) no direct connection with operating rooms or other sterile activity rooms 2.1-2.8.12.2 Ventilation: soiled workroom Min. 10 air changes per hour Table 7-1 (1)(a)handwashing station Exhaust (1)(b)flushing-rim clinical service sink Negative pressure with bedpan-rinsing device or No recirculating room units equivalent flushing-rim fixture (1)(c)work counter (1)(d)space for separate covered containers for waste & soiled linen (2) fluid management system is used ☐ check if not included in project (a) electrical & plumbing connections that meet manufacturer requirements (b) space for docking station or 2.1-2.8.12.3 Ventilation: soiled holding room Table 7-1 (1) Min. 10 air changes per hour handwashing station or hand Exhaust sanitation station (2)Negative pressure space for separate covered No recirculating room units containers for waste & soiled linen 2.2-3.4.7.12(3) other provisions for disposal of liquid waste are provided and described in Project Narrative 2.2-3.4.7.13 Clean equipment & clean & sterile supply Ventilation: storage used in the semi-restricted & Min. 4 air changes per hour Table 7-1 restricted areas Positive pressure No recirculating room units (1)(a)one storage room or combination of storage rooms Location (1)(b)storage room or area is separate from & has no direct connection with soiled holding room storage room or area is directly accessible to the semi-restricted area (is permitted to be directly accessible to operating rooms) storage room or area is directly (1)(d)accessible to operating room designated as semi-restricted or restricted as needed by facility operations or

# **Building Systems Requirements**

(1)(e)	<ul><li>storage room or area is directly</li><li>accessible to only a semi-restricted</li><li>area</li><li>designated as semi-restricted area.</li></ul>
(2) (a)	Space requirements each surgical suite has at least 300 sf or 100 sf per operating room for clean equipment and supply storage, whichever is greater
(3)	<ul> <li>Documentation area</li> <li>□ check if <u>not</u> included in project</li> <li> documentation area located in this</li> <li>storage room is in addition to</li> <li>documentation area in operating room</li> </ul>
(4)	No sink in this storage room
(5)	No sterilizer in this storage room
2.2-3.4.8	OTHER SUPPORT AREAS IN SURGERY DEPARTMENT
2.2-3.4.8.13(1)	Clean linen storage (may be in designated location in clean supply & equipment storage room)
(3)	Storage space for gurneys, stretchers & wheelchairs
(5)	<ul> <li>Medical gas storage</li> <li>space for supply &amp; storage of medical</li> <li>gases used in facility including space</li> <li>for reserve cylinders provided</li> <li>protected in accordance with NFPA 99</li> <li>Health Care Facilities Code</li> </ul>
(6)	Storage for large clinical equipment □ check if <u>not</u> included in project
2.2-3.4.8.16	Storage for blood, organs, tissue & pathological specimens
(1)	equipment temperature controls alarms  & monitoring
2.1-4.1.2.3 (1) (2)	Refrigerated storage facilities refrigerator blood storage facilities
2.2-3.4.8.17	Area for preparation & examination of frozen sections
	located in Surgical Department
	located in general laboratory immediate results are obtainable

	Architectural Requirements	Building	Systems Requirements	
2.2-3.4.9	SUPPORT AREAS FOR SURGERY DEPARTMENT STAFF			
2.2-3.4.9.1	Staff lounge			
2.2-3.4.9.4 (1)	Staff changing area & toilet facilities one or more private changing roor areas for male & female staff work semi-restricted & restricted areas surgery department	ing in		
(2)(a)	lockers			
(2)(b)	showers	Ventilatio		T.I.I. 7.4
(2)(c)	toilets	Exh Neg	. 10 air changes per hour aust ative pressure recirculating room units	Table 7-1
(2)(d)	handwashing stations		-	
(2)(e) (2)(f)	<ul><li>space for donning &amp; doffing surgica</li><li>provisions for separate storage of</li><li>soiled surgical attire</li></ul>			
2.2-3.4.10	SUPPORT AREAS FOR PATIENTS FAMIL & VISITORS	.IES		
2.2-3.4.10.3	Patient changing area			
(2)	<ul> <li>check if <u>not</u> included in project (only patients are assigned private holding ro or cubicles)</li> </ul>			
(1)(a)	provisions for storing patients' belongings during procedures			
(1)(b)	toilet room	Ventilatio		
		Exh Neg	. 10 air changes per hour aust ative pressure recirculating room units	Table 7-1
(1)(c)	space for changing or gowning		oon oundaring room arms	
2.2-3.4.10.4	Waiting area for families & visitors			
*LOCATION T	ERMINOLOGY:			
	<u>sible</u> : Connected to the identified area or roor through an intervening room or public space	n through a doorv	vay, pass-through, or other	opening
Adjacent: Loc	cated next to but not necessarily connected to	the identified area	a or room	
Immediately a	ccessible: Available either in or adjacent to th	e identified area	or room	
Readily acces	sible: Available on the same floor or in the sa	me clinic as the id	dentified area or room	
Architectural [	Details & MEP Requirements			
2.1-7.2.2	ARCHITECTURAL DETAILS		Aisles, corridors & ra areas not intended fo	
2.1-7.2.2.1	CORRIDOR WIDTH:		or use of inpatients n	
NFPA 101,	Aisles, corridors & ramps required		in clear & unobstructo	ed width
18.2.3.3	for exit access in a hospital not less than 8'-0" in clear & unobstructed	2.1-7.2.2.2	CEILING HEIGHT:	
	width	(1)	Min. ceiling height 7	
	Or Detailed and a review incorporated in	(2)	& in normally unocc	
	Detailed code review incorporated in Project Narrative	(2)	Min. ceiling height 9 rooms & secure hold	

(3)	<ul> <li>Min height 7'-6" above floor of suspended tracks rails &amp; pipes located in traffic path for patients in beds &amp; on stretchers</li> <li>Min ceiling height 7'-10" in other areas</li> </ul>	2.1-7.2.2.7	GLAZING MATERIALS:  Glazing within 1 foot 6 inches of floor  □ check if not included in project  must be safety glass, wire glass or plastic break-resistant material
2.1-7.2.2.3 (1) (a)	DOORS & DOOR HARDWARE:  Door Type:  doors between corridors, rooms, or spaces subject to occupancy swing type or	2.1-7.2.2.8 (1)(c)	HANDWASHING STATIONS:  Handwashing stations in patient care areas located so they are
(b)	sliding doors sliding doors □ check if <u>not</u> included in project manual or automatic sliding doors comply with	(3) (a)	visible & unobstructed  —— Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
	NFPA 101 detailed code review incorporated in Project Narrative no floor tracks	(b)	<ul> <li>Countertops substrate</li> <li>□ check if <u>not</u> included in project</li> <li>marine-grade plywood (or equivalent material) with impervious seal</li> </ul>
(2) (a)	Door Opening: min. 45.5" clear door width for diagnostic/treatment areas min. 83.5" clear door height for	(4)	<ul> <li>Handwashing station casework</li> <li>□ check if not included in project</li> <li>designed to prevent storage beneath sink</li> </ul>
(b)	diagnostic/treatment areas swinging doors for personnel use in addition to sliding doors □ check if <u>not</u> included in project min. clear width 34.5"	(5)	<ul> <li>Provisions for drying hands</li> <li>□ check if not included in project</li> <li>(only in the case of hand scrub facilities)</li> <li>hand-drying device does not</li> </ul>
(3) (a)	Door Swing:  doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware	(b) (6) (7)	require hands to contact dispenser hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing liquid or foam soap dispensers No mirror at hand scrub stations or at handwashing stations in clean &
(4)	Lever hardware or push/pull latch hardware	2.1-7.2.2.9 (1)	sterile supply areas  GRAB BARS:  Grab bars anchored to sustain
(5) (a)	Doors for Patient Toilet Facilities: two separate doors or door that swings outward	(3)	concentrated load 250 pounds Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors
	or door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)  or sliding door other than pocket door	2.1-7.2.2.10 (1) (3) (4)	HANDRAILS:  Handrails installed on both sides of patient use corridors  Rail ends return to wall or floor  Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius
(b)	toilet room opens onto public area or corridor □ check if <u>not</u> included in project visual privacy is maintained	(5) (6)	Handrails have eased edges & corners Handrail finishes are cleanable

2.1-7.2.2.11	RADIATION PROTECTION:  □ check if no radiation emitting equipment is included in project  Protection for X-ray & Gamma-ray installations are shown in the plans	(2)	Wall surfaces in areas routinely subjected to wet spray or splatter (e.g environmental services rooms) are monolithic or have sealed seams that are tight & smooth
	Documentation for radiation protection has been submitted separately to the DPH Radiation	(5)	Wall protection devices & corner guards durable & scrubbable CEILINGS:
	Control Program	(1)	Ceilings provided in all areas except
2.1-7.2.2.12 (1)	NOISE CONTROL:  Recreation rooms, exercise rooms equipment rooms & similar spaces	(a)	mechanical, electrical & communications equipment rooms  Ceilings cleanable with routine
	where impact noises may be generated are not located directly	(b)	housekeeping equipment Acoustic & lay-in ceilings where used
	over operating suites or	(0)	do not create ledges or crevices
	Special provisions are made to minimize impact noise	(2)	Semi-Restricted Areas:  ☐ check if <u>not</u> included in project
(2)	Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas	(a)	<ul> <li>ceiling finishes are scrubbable, non absorptive, non perforated, &amp; capable of withstanding cleaning with chemicals</li> </ul>
	construction are moral patient areas	(b)	lay-in ceilings
2.1-7.2.3 2.1-7.2.3.1	SURFACES FLOORING & WALL BASES:		gasketed or each ceiling tile weighs at least one
(1)	Flooring surfaces cleanable &	(0)	pound per square foot
(3)	wear-resistant for location Smooth transitions provided	(c)	use of perforated tegular serrated or highly textured
(4)	between different flooring materials Flooring surfaces including those on stairways are stable, firm &		tiles not are permitted in semi-restricted areas
(5)	slip-resistant Floors & wall bases of soiled		ceilings of monolithic construction
(0)	workrooms, toilet rooms & other areas		-
	subject to frequent wet cleaning are constructed of materials that are not	(3)	Restricted Areas:
	physically affected by germicidal or	(a)	<ul><li>check if <u>not</u> included in project</li><li>ceilings of monolithic construction</li></ul>
(7)(-)	other types of cleaning solutions		(except for central diffuser array)
(7)(a)	Floors are monolithic & integral coved wall bases are at least 6" high	(b)	modular or prefabricated laminar (or controlled) flow
	& tightly sealed to wall in rooms		ceiling system in operating
	listed below: operating room		rooms & Class 3 imaging
	procedure rooms where		rooms/hybrid operating rooms in place of monolithic ceiling
	cystoscopy, urology, &		construction
	endoscopy procedures are performed		□ check if <u>not</u> included in project
	☐ check if <u>not</u> included in project		seams & access doors are continuously gasketed.
	airborne infection isolation (AII)		assembly is constructed
	room soiled workroom & soiled		with structural frame
	holding room		engineered & rated for systems supported &
2.1-7.2.3.2	WALLS & WALL PROTECTION:		equipped with seismic
(1)(a)	Wall finishes are washable		bracing as required accommodations are
(1)(b)	Wall finishes near plumbing fixtures		made to provide access
	are smooth, scrubbable & water-resistant		for testing maintenance & replacement of items

	diffuser arrangement & airflow design complies with ASHRAE 170 (see below) devices & related controls are UL/ETL labeled	Part 3/6.2 Part 3/6.2.1	AIR-HANDLING UNIT (AHU) DESIGN:  —— AHU casing is designed to prevent water intrusion resist corrosion & permit access for inspection & maintenance
(c)	<ul><li>ceiling finishes scrubbable &amp; capable of withstanding cleaning</li><li>disinfecting chemicals</li></ul>	Part 3/6.3 Part 3/6.3.1	OUTDOOR AIR INTAKES & EXHAUST DISCHARGES: Outdoor Air Intakes:
(d)	access openings are gasketed	Part 3/6.3.1.1	located such that shortest distance from intake to any
2.1-7.2.4 2.1-7.2.4.1	FURNISHINGS: built-in furnishings upholstered with impervious materials in patient treatment areas with risks of exposure & contamination from bodily fluids & other fluids		specific potential outdoor contaminant source be equal to or greater than separation distance listed in Table 6-1 located min of 25'-0" from cooling towers & all exhaust &
2.1-7.2.4.3	Privacy curtains in patient care areas are washable		vent discharges air intakes located away from public access
2.1-8.2	HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS		all intakes are designed to prevent entrainment of wind-
Part 3/6.1 Part 3/6.1.1	UTILITIES:  Ventilation Upon Loss of Electrical  Power:		driven rain contain features for draining away precipitation
	space ventilation & pressure relationship requirements of		equipped with birdscreen of mesh no smaller than 0.5 in
	Table 7-1 are maintained for All Rooms PE Rooms Operating Rooms in event of loss of normal electrical power	Part 3/6.3.1.4	intake in areaway □ check if <u>not</u> included in project bottom of areaway air intake opening is at least
Part 3/6.1.2 Part 3/6.1.2.1	Heating & Cooling Sources: heat sources & essential accessories provided in number & arrangement sufficient to accommodate facility needs		6'-0" above grade bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway
	(reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance  capacity of remaining source or	Part 3/6.3.2 Part 3/6.3.2.1	Exhaust Discharges: ductwork within building is under negative pressure for exhaust of contaminated air (i.e air from All rooms) exhaust discharge outlets with
	sources is sufficient to provide heating for operating rooms & recovery rooms		contaminated air located such that they reduce potential for recirculation of exhausted air
Part 3/6.1.2.2	Central cooling systems greater than 400 tons (1407 kW) peak cooling load  check if not included in project number & arrangement of cooling sources & essential accessories is sufficient to support owner's facility operation plan upon breakdown or routine maintenance of any one of cooling sources.	Part 3/6.3.2.2	back into building  exhaust discharge outlets with contaminated air additionally is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level  exhaust discharge outlets from All rooms is located not less than 25'-0" horizontally from outdoor air intakes openable windows/doors & areas that are
		I	normally accessible to public

Part 3/6.4	FILTRATION:	Part 3/6.8	ENERGY RECOVERY SYSTEMS:
a.	Particulate matter filters, minimum		□ check if <u>not</u> included in project
	MERV-8 provided upstream of first	Part 3/6.8.1	Located upstream of filters required
	heat exchanger surface of any air-		by Part 3/6.8.4
	conditioning system that combines	Part 3/6.8.2	All room exhaust systems or
	return air from multiple rooms or		combination AII/PE rooms are not
1.	introduces outdoor air.		used for energy recovery
b.	Outdoor air filtered in accordance		
	with Table 7-1	Part 3/7	SPACE VENTILATION-HOSPITAL SPACES:
C.	Air supplied from equipment serving	Part 3/7.1.a	Spaces ventilated according to Table 7-1
	multiple or different spaces is filtered in accordance with Table 7-1	D.:10/74 . 4	Air movement is from clean to less-
d.	Air recirculated within room is filtered	Part 3/7.1.a.1	clean areas
u.		D. 1074 . 0	Advanced to a fit to be a first or a
	in accordance with Table 7-1, or Section 7.1(a)(5)	Part 3/7.1.a.3	Min number of total air changes
e.	Design includes all necessary		required for positive pressure rooms
С.	provisions to prevent moisture		is provided by total supply airflow
	accumulating on filters located		Min number of total air changes
	downstream of cooling coils &		required for negative pressure rooms
	humidifiers	Dort 2/7.4 a. 4	is provided by total exhaust airflow
h.	For spaces that do not permit air	Part 3/7.1.a.4	Entire min. outdoor air changes per
11.	recirculated by means of room units		hour required by Table 7-1 for each
	& have minimum filter efficiency of		space meet filtration requirements of
	MERV-14, MERV-16 or HEPA in	Part 3/7.1a.5	Section 6.4
	accordance with Table 7-1, the min.	Part 3/1.1a.5	Air recirculation through room unit
	filter requirement listed in Table 7-1,		☐ check if <u>not</u> included in project
	is installed downstream of all wet-air		complies with Table 7-1
	cooling coils & supply fan		room unit receive filtered &
	cooming come a supply fam		conditioned outdoor air
Part 3/6.5	HEATING & COOLING SYSTEMS:		serve only single space
Part 3/6.5.3	Radiant heating systems		provides min MERV 8 filter
1 411 0/0.0.0	☐ check if <u>not</u> included in project		located upstream of any cold
	ceiling or wall panels with		surface so that all of air passing
	exposed cleanable surfaces or		over cold surface is filtered
	radiant floor heating are provided	Dort 2/7.0	ADDITIONAL BOOM SDECIFIC
	in All room, PE room, operating	Part 3/7.2	ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:
	room or procedure room	Part 3/7.2.1	
	room or procedure room	Part 3/1.2.1	Airborne Infection Isolation (AII) Rooms
Part 3/6.7	AIR DISTRIBUTION SYSTEMS:		□ check if <u>not</u> included in project
Part 3/6.7.1	Maintain pressure relationships		All rooms have permanently installed
	required in tables 7.1 in all modes of		device and/or mechanism to
	HVAC system operation		constantly monitor differential air
	Spaces that have required pressure		pressure between room & corridor
	relationships are served by fully		Local visual means is provided to
	ducted return systems or fully		indicate whenever negative differential pressure is not maintained
	ducted exhaust systems		Air from All room is exhausted
	Inpatient facilities & recovery rooms		directly to outdoors
	are served by fully ducted return or		Exhaust air from All rooms, associated
	exhaust systems		anterooms & toilet rooms:
	•		is discharged directly to outdoors
Part 3/6.7.2	Air Distribution Devices:		without mixing with exhaust air from
	supply air outlets comply		any other non-All room or exhaust
	with Table 6-2		system
			or
Part 3/6.7.3	Smoke Barriers:		is discharged into the general
	HVAC zones coordinated with		exhaust stream, provided the All
	compartmentation to minimize		room exhaust air first passes through
	ductwork penetrations of fire &		a HEPA filter (all exhaust ductwork
	smoke barriers.		kept under negative pressure)
MDPH/DHCE	I C		12/24 IP15

	<ul> <li> Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on wall near head of bed</li> <li> Anteroom</li> <li> check if not included in project</li> <li> All room is at negative pressure with respect to anteroom</li> <li> Anteroom is at negative</li> <li> pressure with respect to corridor</li> </ul>	(2) (3) 2.1-8.3.2.3 (2)(a)	panelboard critical branch circuits serve floors on which they are located panelboards not located in exit enclosures or exit passageways  Ground-Fault Circuit Interrupters in Operating rooms: □ check if not included in project Where GFCIs are used in operating room, each single or duplex receptacle
Part 3/7.4.1	Operating Rooms  ☐ check if <u>not</u> included in project  Each OR has individual temperature control  OR is provided with primary supply diffuser array designed as follows:  airflow is unidirectional downwards & average velocity	(2)(b) 2.1-8.3.3 2.1-8.3.3.1	is stand-alone GFCI receptacle Where GFCI breakers are used, no more than one single or duplex receptacle is connected to individual GFCI breaker  POWER-GENERATING & -STORING EQUIPMENT
	of diffusers is 25 to 35 CFM/ft <sup>2</sup> diffusers are concentrated to provide airflow pattern over patient & surgical team coverage area of primary supply diffuser array extends min 12"	(1)	<ul> <li>Essential electrical system or emergency electrical power</li> <li>essential electrical system complies with NFPA 99</li> <li>emergency electrical power complies with NFPA 99</li> </ul>
	beyond footprint of surgical table on each side  no more than 30% of portion of primary supply diffuser array is used for non-diffuser uses  additional supply diffusers provided within room outside of primary supply diffuser array  □ check if not included in project	2.1-8.3.4 2.1-8.3.4.1(1) 2.1-8.3.4.1(2)	LIGHTING  Luminaires in patient areas have smooth, cleanable, impact-resistant lenses concealing light source  Luminaires designed to dissipate heat such that touchable surfaces will not burn occupants or ignite materials.
	each OR has at least two low sidewall return or exhaust grilles spaced at opposite corners or as far apart as possible with bottom of these grilles installed approximately 8" above floor	(4) (a) (b)	Operating rooms: general lighting in addition to special lighting units provided at surgical & obstetrical tables general lighting & special lighting are on separate circuits
Part 3/7.4.3	Imaging Procedure Rooms  ☐ check if <u>not</u> included in project  Anesthetic gases are administered	(7)	Uplight fixtures installed in patient care areas are covered
	<ul> <li>ventilation requirements for operating rooms are met</li> <li>or</li> <li>No anesthetic gases are administered</li> </ul>	2.1-8.3.5 2.1-8.3.5.1	ELECTRICAL EQUIPMENT  Handwashing sinks & scrub sinks that depends on building electrical service for operation are connected to essential electrical system
2.1-8.3	ELECTRICAL SYSTEMS	2.1-8.3.5.2	Electronic health record system servers & centralized storage provided
2.1-8.3.2	ELECTRICAL DISTRIBUTION & TRANSMISSION		with uninterruptible power supply
2.1-8.3.2.2 (1)	Panelboards: panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below		

2.1-8.3.6 2.1-8.3.6.1 (1)	ELECTRICAL RECEPTACLES  Receptacles In Corridors:  duplex-grounded receptacles for general use installed 50'-0" apart or less in all corridors duplex-grounded receptacles for general use installed within 25'-0" of corridor ends		<ul> <li>clean workroom of two-room sterile processing facilities</li> <li>pharmacies</li> <li>Class 2 &amp; 3 imaging rooms</li> <li>electronic mainframe rooms (EFs &amp; TERs)</li> <li>main switchgear</li> </ul>
2.1-8.3.6.3	Essential Electrical System Receptacles:		<ul><li>electrical rooms</li><li>electronic data processing</li></ul>
(1)	cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification	(1)(b)	areas  • electric closets  drip pan for drainage piping above ceiling of sensitive area
(2)	same color is used throughout facility		□ check if <u>not</u> included in project accessible overflow drain with outlet located in normally
2.1-8.4 2.1-8.4.2 2.1-8.4.2.1(3)	PLUMBING SYSTEMS  Plumbing & Other Piping Systems:  no plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem	(2) (a)	occupied area that is not open to restricted area Floor Drains: no floor drains in procedure rooms operating rooms Class 2
2.1-8.4.2.5	Heated Potable Water Distribution	(b)	& Class 3 imaging rooms floor drain in dedicated
(2)	Systems: heated potable water distribution systems serving patient care areas are under		cystoscopy procedure room □ check if <u>not</u> included in project
	constant recirculation non-recirculated fixture branch		recessed floor sink w/ automatic trap primer
(3)(a)	piping is not more than 25'-0" long no installation of dead-end piping (except for empty risers	2.1-8.4.3 2.1-8.4.3.1(1)	PLUMBING FIXTURES  Materials used for plumbing fixtures are non-absorptive & acid-resistant
(3)(c) (3)(b)	mains & branches for future use) any existing dead-end piping is removed	2.1-8.4.3.2 (1)	Handwashing Station Sinks:  designed with basins & faucets
(4)(a)	☐ check if <u>not</u> included in project water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4	(1)	that reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed, medications are
2.1-8.4.2.6 (1)(a)	Drainage Systems: drainage piping installed above ceiling of or exposed in rooms listed below piping have special provisions (e.g double wall	(2)	prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min dimension 9 inches in width or length
	containment piping or oversized drip pans) to protect space below from leakage & condensation	(3)	<ul><li>sink basins are made of porcelain stainless steel or solid-surface materials</li></ul>
	<ul><li>operating rooms</li><li>delivery rooms</li><li>procedure rooms</li></ul>	(5)	<ul><li>water discharge point of faucets is at least 10" above bottom of basin</li></ul>
	<ul> <li>trauma rooms</li> <li>nurseries</li> <li>central kitchens</li> <li>one-room sterile processing facilities</li> </ul>	(7)	anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs is applied

(8)	<ul> <li>sinks used by medical &amp;</li> <li>nursing staff patients &amp; public</li> <li>have fittings that can be</li> <li>operated without using hands</li> </ul>	2.1-8.5.1.2(4)	<ul><li>Nurse call system provided in each patient care area as required in Table 2.1-2</li></ul>
(a)	(may be single-lever or wrist blade devices) blade handles □ check if <u>not</u> included in project	2.1-8.5.1.3	Bath Stations:  bath station that can be activated by patient lying on floor provided at each patient toilet
	at least 4 inches in length provide clearance required for operation	(1)	alarm in these areas can be turned off only at bath station where it was initiated
(b)	sensor-regulated water fixtures check if <u>not</u> included in project meet user need for temperature & length of time water flows	(3)	toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
	designed to function at all times & during loss of normal power	2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call
2.1-8.4.3.4	Ice-Making Equipment: copper tubing provided for supply connections to ice-making equipment	2.1-8.5.3	EMERGENCY COMMUNICATION SYSTEM Emergency-radio communication
2.1-8.4.3.5 (1)	Clinical Flushing-Rim Sinks: trimmed with valves that can	2.1-8.5.3.1	system provided in each facility operates independently of building's service & emergency power systems during
(a) (b)	are operated without hands (may be single-lever or wrist blade devices) handles are at least 6 in long	2.1-8.5.3.2	emergencies frequency capabilities to communicate with state emergency
(2)	integral trap wherein upper portion of water trap provides visible seal	2.1-8.6.2	communication networks  ELECTRONIC SURVEILLANCE SYSTEMS
2.1-8.4.3.6 (1)	Scrub Sinks: freestanding scrub sinks are trimmed with foot knee or electronic sensor controls	2.1-8.6.2.1	□ check if <u>not</u> included in project Display screens in patient areas are mounted in tamper-resistant
(2)	no single-lever wrist blades except for temperature pre-set valve	2.1-8.6.2.2	enclosure that is unobtrusive Display screens are located so they are not readily observable by
2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS  Station outlets provided as indicated in Table 2.1-3	2.1-8.6.2.3	general public or patients Electronic surveillance systems receive power from essential electrical system
2.1-8.5.1	CALL SYSTEMS		
2.1-8.5.1.1(1)	Nurse call stations provided as required in Table 2.1-2		
2.1-8.5.1.1(2)	Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2		
2.1-8.5.1.1(4)	Call system complies with UL 1069 "Standard for Hospital Signaling & Nurse Call Equipment"		
2.1-8.5.1.1(5)	<ul><li>Wireless nurse call system</li><li>□ check if not included in project</li><li>complies with UL 1069</li></ul>		