#### **COMPLIANCE CHECKLIST**

#### **IP14 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 2018 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:

Encility Name:

- 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.
- EX = 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.

DoN Project Number: (if applies bla)

- 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.

racility Name.	DON Project Number: (ii 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**

	•		
2.2-3.3 2.2-3.3.1.1	Surgical Services Location & Layout:		
(4)	surgery department divided into unrestricted areas, semi-restricted areas		
(1)	& restricted areas semi-restricted & restricted areas of surgery department located & arranged		
(2)	to prevent unrelated traffic clinical practice setting designed to		
	facilitate movement of patients & personnel into through & out of defined		
(3)	areas in surgery department signs that clearly indicate need for		
	surgical attire shown on plans at all entrances to semi-restricted areas		
2.2-3.3.2	PROCEDURE ROOMS  ☐ check if not included in project		
2.2-3.3.2.1(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		
2.2-3.3.2.1(2)	included in Project Narrative Location:		
(a)	procedure room meet requirements of		
(ω)	semi-restricted area		
(b)	procedure room accessed from semi-		
	restricted corridor or from unrestricted		
	corridor		
2.2-3.3.2.2	Space Requirements:	Ventilation:	T-1-1-74
(1)(a)	min. clear floor area 130 sf anesthesia machine & associated	Min. 15 air changes per hour Positive pressure	Table 7.1
(1)(b)	supply carts are used	No recirculating room units	
	☐ check if <u>not</u> included in project	Power:	
	min. clear floor area 160 sf	Min. 12 receptacles in total	Table 2.1-1
(1)(c)	procedure room sized to accommodate	Min. 8 receptacles convenient	10010 211 1
( )( )	personnel & equipment needed for	to table placement with at	
	particular procedures,	least one on each wall	
	procedure room sized to accommodate	Nurse Call System:	
	additional personnel & equipment that	Staff assistance station	Table 2.1-2
(2)(a)	may be needed for emergency rescue	Emergency call station	
(2)(a)	min. clearance 3'-6" on each side of	Medical Gases:	Table 2.1-3
	table, gurney or procedural chair min. clearance 3'-0" at head & foot of	1 OX, 2 VAC, 1 MA	1 able ∠. 1-3
	table, gurney or procedural chair		
	table, game, or procedural orial		

# **Building Systems Requirements**

(2)(b)	<ul> <li>anesthesia machine &amp; associated supply carts are used</li> <li>min. clearance 6'-0" at head of table, gurney or procedural chair</li> </ul>		
2.2-3.3.2.3 (1)	<ul> <li>Documentation area</li> <li>accommodations for written and/or electronic documentation provided in procedure room</li> </ul>		
2.1-2.8.3.1	work surface to support documentation process		
2.2-3.3.2.3(2)	use of documentation area allows for direct observation of patient		
2.2-3.3.2.4	Provisions made for patient privacy		
2.2-3.3.2.5 (1)	Handwashing Facilities: handwashing station located in procedure room or		
(2)	hand scrub station directly accessible* to procedure room		
2.2-3.3.3 2.2-3.3.3.1(1)	OPERATING ROOMS  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  Operating room meets requirements of restricted area		
2.2-3.3.3.2	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 max. 12" deep by max. 10% of wall length)	Positive pressure No recirculating room units Lighting:	
(1)(a) (1)(b)	min. clear floor area 400 sf min. clearance 8'-6" on each side 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:  Min. 36 receptacles in total	2.1-8.3.4.3(4) (a) Table 2.1-1
	anesthesia work zone with clear floor area 6'-0" x 8'-0" min. clearance 7'-0" at foot of operating table	Min. 16 receptacles convenient to table placement Min. 2 on each wall Nurse Call System:	
	oporating table	Staff assistance station Emergency call station	Table 2.1-2
		Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-3 + Errata

# **Building Systems Requirements**

2.2-3.3.3.3 (1) (2)	Documentation area  accommodations for written and/or electronic documentation use of documentation area allows for direct observation of patient		
2.2-3.3.3.4	_ Medical image viewers (e.g. X-ray film or digital)		
2.2-3.3.3.5(3) (a)	Communications System:  all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch each operating room have system for		
	emergency communication with surgery department control station		
(2)	Operating room for image-guided surgery  ☐ check if not included in project	Vantilation	
(3)	Space Requirements: (may include minor wall encroachments of max. 12" deep by max. 10% of wall length) uses portable imaging equipment	Ventilation: Min. 20 air changes per hour Positive pressure No recirculating room units Lighting:	Table 7.1
(a)	or surgical procedures that require additional personnel and/or large equipment	General lighting in addition to special lighting units provided at surgical table Power:	2.1-8.3.4.3(4) (a)
_	<ul><li>sized to accommodate personnel</li><li>equipment planned to be in room during procedures</li></ul>	Min. 36 receptacles in total Min. 16 receptacles convenient to table placement Min. 2 on each wall	Table 2.1-1
	New Construction & Major Renovations: min. clear floor area 600 sf min. clear dimension 20'-0"	Nurse Call System: Staff assistance station Emergency call station Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-2 Table 2.1-3 + Errata
- 1	or	2 0X, 3 VAC, 1 WA, 1 WAGD	+ Ellala
(b)	Limited Renovations: min. clear floor area 500 sf min. clear dimension 20'-0"		
2.2-3.3.3.3	_ Documentation area		
(1)	accommodations for written and/or electronic documentation		
(2)	use of documentation area allows for direct observation of patient		
2.2-3.3.3.4 2.2-3.3.3.5(3) (a)	Medical image viewers (e.g. X-ray film or digital) Communications System:  all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch		

# **Building Systems Requirements**

(b)	each operating room have system for emergency communication with surgery department control station		
2.2-3.3.3.6	Equipment storage rooms for open-heart or complex orthopedic & neurosurgical surgery provided in semi-restricted area		
2.2-3.3.4 2.2-3.3.4.1	HYBRID OPERATING ROOM  ☐ check if not included in project Application: hybrid operating rooms (Class 3 imaging rooms)		
2.2-3.3.4.2 2.2-3.3.3.2 (3) (1)(a) (1)(b)	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 of operating table  min. clearance 6'-0" at head of operating table	Ventilation:  Min. 20 air changes per hour Positive pressure No recirculating room units Lighting: General lighting in addition to special lighting units provided at surgical table	Table 7.1 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	Power:  Min. 36 receptacles in total  Min. 16 receptacles convenient to table placement Min. 2 on each wall	Table 2.1-1
2.2-3.3.4.2(1)	clear floor area, clearance & storage requirements for imaging equipment contained in room	Nurse Call System: Staff assistance station Emergency call station	Table 2.1-2
2.2-3.3.4.2(2)	<ul> <li>any mobile storage units do not encroach on required clear floor area &amp; clearances</li> </ul>	Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-3 + Errata
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		
2.2-3.3.3.3 (1)	Documentation area accommodations for written and/or		
(2)	electronic documentation  use of documentation area allows for direct observation of patient		
2.2-3.3.3.4	Medical image viewers (e.g. X-ray film or digital)		
2.2-3.3.3.5(3) (a)	Communications System:  all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch		

# **Building Systems Requirements**

	Aromicotara requirements
(b)	each operating room have system for emergency communication with surgery department control station
2.2-3.3.4.3	Control room
(1)	sized & configured in compliance with
	manufacturer recommendations for
(2)	installation service & maintenance
(2)	control room physically separated from
	hybrid operating room with walls & door <b>or</b>
	open control area serves only one
	operating room & is built maintained &
	controlled same as operating room
(4)	to a soule that are the family of
(4)	view panels that provide for view of patient & surgical team
	patient & surgical team
2.2-3.3.4.4	Structural Support:
	floor & ceiling structures designed to
	support weight of imaging equipt as well
	as other fixed ancillary equipt & movable ancillary equipt
	anomary equip.
2.2-3.3.4.5	Hybrid operating room protected from
	disruptive environmental vibrations & other
	disturbances in accordance with imaging equipt manufacturer's technical specifications
	equipi manufacturer s technical specifications
2.2-3.3.4.6	System component room
2.2-3.4.2.5(1)	Location:
(a)	accessed only from unrestricted or
	semi-restricted space outside imaging room
2.2-3.4.2.5(2)	Space Requirements:
, ,	room sized to accommodate
	following as indicated by imaging
(a)	equipment manufacturer transformers
(b)	power distribution equipment
(c)	power conditioning/UPS
( )	equipment
(d) (e)	computers associated electronics &
(6)	electrical gear
2.2-3.3.4.7	Radiation Protection:
2.2-3.4.1.3	☐ check if <u>not</u> 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
	Control i Togram

# **Building Systems Requirements**

2.2-3.3.4.8	Specific requirements for hybrid operating rooms with intraoperative computerized tomography (CT) systems:
	☐ check if <u>not</u> included in project
2.2-3.3.4.8(1)	
2.2-3.4.1.3(1)	Shielded control room
(a)	Space Requirements:
	sized & configured according to
	manufacturer recommendations
(c)	shielded view window
	designed to provide full view of
	patient at all times (use of
	additional closed-circuit video
	monitoring permitted)
(d)	control room enclosed with
(4)	walls & door
	walls & dool
2.2-3.3.4.8(2)	Specific Requirements for Hybrid Operating
L.L 0.0. 1.0(L)	Rooms with Intraoperative MRI Systems:
	☐ check if <u>not</u> included in project
2.2-3.4.5.1	Planning Configuration of MRI Suite:
(1)	conforms to 4-zone screening &
(1)	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
	Zone IV: MRI scanner room
	where access must be
	supervised by MRI personnel
(2)	MRI suite as well as spaces around,
(2)	above & below designed to prevent
	unscreened individuals from
	entering 5-gauss volume around
	MRI equipment
(3)	Specific Support Areas for MRI Suite:
(a)	space for patient interviews &
(u)	clinical screening
(b)	space for physical screening
· ·	space for physical screening ferromagnetic (only) detection &
(c)	warning systems
(d)	access controls
(u)	access controls

# **Building Systems Requirements**

(e)	<ul> <li>space to accommodate site-specific clinical &amp; operational requirements such as image-guided procedures emergent imaging or general anesthesia support</li> <li>check if not included in project</li> </ul>
(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
	scanner room
(2)	outward-swinging door
	□ check if <u>not</u> 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
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
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
(4) (1)	scanner rooms
(1)(b)	MRI scanner room be located and/or shielded to avoid
	electromagnetic interference from
	elevators or other electromagnetic
	equipment

# **Building Systems Requirements**

	Aromicotara requirements	Dulla
(2)(a)	floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field & mitigate disruptive	
(2)(b)	environmental vibrations  MRI rooms be marked with lighted sign with red light to indicate that	
(2)(c)	magnet is always on acoustic control provided to mitigate noise emitted by MRI scanner per Table 1.2-6	
2.2-3.3.4.8(3)	Specific Requirements for Hybrid Operating Rooms with Vascular Imaging Systems:   — check if not included in project	
2.2-3.4.1.3(1) (a)	<ul> <li>Shielded control alcove or room</li> <li>Space Requirements:</li> <li>sized &amp; configured according</li> <li>to manufacturer's</li> <li>recommendations</li> </ul>	
(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	
2.2-3.3.5 2.1-3.4.1.1	PRE- & POSTOPERATIVE PATIENT CARE AREAS  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)	<ul> <li>separate pre-procedure patient care area &amp; post-procedure recovery area</li> <li>patient care stations combined in same area meet most restrictive requirements of areas to be combined</li> </ul>	
(c)	three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) & Phase II recovery area	

# **Building Systems Requirements**

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		
(2)	for each operating room separate pre-procedure & recovery areas		
(2)	☐ check if <u>not</u> included in project		
2.1-3.4.3	pre-procedure patient care room		
	or area provides minimum of 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		
2.1-3.4.5	Class 3 imaging or operating room  Phase II recovery room(s) or area		
	minimum of one Phase II		
	patient care station per		
	operating room		
2.1-3.4.2.2	Space Requirements:		
(2)(a)	patient care bays		
	$\square$ check if <u>not</u> included in project		
	min. clearance 5'-0" between sides	Ventilation: Min. 6 air changes per hour	Table 7.1
	of patient beds/gurneys/lounge chairs	No recirculating room units	Table 7.1
	min. clearance 3'-0" between sides	Power:	
	of patient beds/gurneys/lounge	Min. 8 receptacles in total	Table 2.1-1
	chairs & adjacent* walls or	convenient to head of gurney or bed	
	partitions min. clearance 2'-0" between foot	Nurse Call System:	
	of patient beds/gurneys/lounge	Staff assistance station	Table 2.1-2
	chairs & cubicle curtain	Emergency call station	
		Medical Gases: 1 OX, 3 VAC, 1 MA per station	Table 2.1-3
(2)(b)	patient care cubicles	1 OX, 5 VXO, 1 WX per station	14510 2.1 5
	☐ check if <u>not</u> included in project		
	min. clearance 3'-0" between sides	Ventilation:	T-11-74
	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:	
		Staff assistance station	Table 2.1-2
		Emergency call station	
		Medical Gases: 1 OX, 3 VAC, 1 MA per station	Table 2.1-3
		1 0,1,0 0,10,110,110,11	

	Architectural Requirements	<b>Building Systems Requirements</b>	
	<ul> <li>bays or cubicles face each other</li> <li>check if not included in project</li> <li>aisle with min. clearance 8'-0"</li> <li>independent of foot clearance</li> <li>between patient stations or other</li> <li>fixed objects</li> </ul>		
(2)(c)	<pre> single-patient rooms</pre> □ check if not included in project		
	min. clearance 3'-0" between sides & foot of beds/gurneys/lounge chairs & adjacent* walls or partitions	Ventilation: Min. 6 air changes per hour No recirculating room units	Table 7.1
		Power: Min. 8 receptacles in total convenient to head of gurney or bed  Nurse Call System:	Table 2.1-1
		Staff assistance station Emergency call station Medical Gases:	Table 2.1-2
2.1-2.4.2	Airborne infection isolation (AII) room in	1 OX, 3 VAC, 1 MA per station	Table 2.1-3
0.4.0.4.0.0	pre-procedure & recovery areas	No. of the	
2.1-2.4.2.2	complies with requirements applicable to single-patient rooms	Ventilation: Min. 12 air changes per hour	Table 7.1
(2)	personal protective equipment (PPE)	Exhaust	
(3)	storage at entrance to room handwashing station	Negative pressure No recirculating room units	
(4)	patient toilet room serves only one AII room	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure	Table 7.1
2.1-2.4.2.3	anteroom	No recirculating room units	
	☐ check if <u>not</u> included in project		
(1)	<ul><li>provides space for persons to don personal protective equipment</li><li>(PPE) before entering patient room</li></ul>	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)	handwashing station		
(3)(b)	storage for unused PPE		
(3)(c)	disposal/holding container for used PPE		

# **Building Systems Requirements**

2.1-2.4.2.4	Architectural Details & Furnishings:
(1)(a)	perimeter walls ceiling & floor including
	penetrations constructed to prevent air
	exfiltration
(1)(b)	self-closing devices on all room exit doors
	or or
	activation of audible alarm when AII
	room is in use as isolation room
'	
	edge seals provided along sides & top
	of doorframe for any door into AII room
2.1-2.4.2.5	room pressure visual or audible alarm
	room prosoure visual or addible dialin
2.1-3.4.2.4	Patient Privacy:
2.1-2.1.2	provisions are made to address patient
	visual & speech privacy
	moduli di operati pintara)
2.1-3.4.2.5	Handwashing stations
2.1-2.8.7.1	located in each room where hands-on
	patient care is provided
2.1-2.8.7.3	handwashing station serves multiple
	patient care stations
	☐ check if <u>not</u> included in project
(1)	at least 1 handwashing station for
(.)	every 4 patient care stations or fewer
	& for each major fraction thereof
(2)	handwashing stations evenly
(-)	distributed
	distributed
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
2.2-3.3.5.8	SUPPORT AREAS FOR PRE- & POST -
2 2 2 2 5 0/4)	OPERATIVE PATIENT CARE AREAS
2.2-3.3.5.8(1)	General support areas in this section are
	provided in or directly accessible* to pre- &
2.2-3.3.5.8(2)	postoperative patient care areas
2.2-3.3.5.6(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)	<del></del> ·
2.1 2.0.2.1(2)	handwashing station next to or directly accessible*
	or
	hand sanitation dispenser next to or
	directly accessible*
	ullectly accessible

	Architectural Requirements	<b>Building Systems Requirements</b>	
2.1-2.8.2.2	Center for reception & communication self-contained or 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	Nurse Call System: Duty station (light/sound signal)	2.1-8.5.1.2(3)(b)
2.2-3.3.5.8(7)	Clinical sink		
2.2-3.3.5.8(8)	Medication safety zone		
(a)	provided in postoperative patient care areas		
2.1-2.8.8.1(2) (a)	Design Promoting Safe Medication Use: medication safety zones located		
(b)	out of circulation paths work space designed so that staff can access information & perform required tasks	Lighting: Task-specific lighting level min. 100 foot-candles	2.1-2.8.8.1(2)(d)
(c)	work counters provide space to perform required tasks	min. 100 foot dandies	
(e)	sharps containers placed at heighted that allows users to see top of container		
(f)	max. 45 dBA noise level caused by building systems		
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	N Oall O. ataus	
	sharps containers □ check if <u>not</u> included in project	Nurse Call System: Duty station (light/sound signal)	Table 2.1-2
(c)	self-contained		
	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:	0.4.0.0.0.4/0\/-n
(c)	workroom or in alcove	Task lighting Nurse Call System:	2.1-2.8.8.1(2)(d)
(c)	<ul><li>handwashing station located next to stationary medication- dispensing units or stations</li></ul>	Duty station (light/sound signal)	Table 2.1-2

	Architectural Requirements	<b>Building Systems Requirements</b>	
2.2-3.3.5.8(9)	Nourishment area	Ventilation:	
	provided in unrestricted patient care area	Min. 2 air changes per hour	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(3) 2.1-2.8.9.2(4)	refrigerator		
2.1-2.8.9.2(4)	microwave		
2.1-2.8.9.2(6)	<pre> storage cabinets space for temporary storage of food</pre>	Nurse Call System:	
2.1 2.0.0.2(0)	service implements	Duty station (light/sound signal)	2.1-8.5.1.2(3)(b)
2.1-2.8.9.3	provisions for separate temporary storage of unused & soiled meal trays		
2.2-3.3.5.8(10)	Ice-making equipment		
(b) 2.2-3.3.5.8(12)	not located in semi-restricted area		
2.2-3.3.7.12 (1)(a)	Soiled workroom or soiled holding room (may be combined with Decontamination 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		
(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	Exhaust	
	with bedpan-rinsing device or equivalent flushing-rim fixture	<ul><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	Nurse Call System: Duty station (light/sound signal)	Table 2.1-2
(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		
	or		
2.1-2.8.12.3	soiled holding room	Ventilation: Min. 10 air changes per hour	Table 7.1
(1)	handwashing station or hand sanitation station	Exhaust Negative pressure	

	Architectural Requirements	Building Systems Requirements
(2)	space for separate covered containers for waste & soiled linen	No recirculating room units
2.2-3.3.7.12(3) (b)	other provisions for disposal of liquid waste are made	
2.2-3.3.5.9	SUPPORT AREAS FOR STAFF  Staff toilet room located in postoperative patient care area to maintain staff availability to patients	
2.2-3.3.5.10	SUPPORT AREAS FOR PATIENTS & VISITORS	
(1) (a)	Patient toilet room Location:	
(a)	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 pre- & post-operative areas)	
(b)	Number:	
	one patient toilet for each eight patient care stations or fewer & for each major fraction thereof	
2.2-3.3.6	SUPPORT AREAS IN SEMI-RESTRICTED AREA	
2.2-3.3.6.2	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	
	area	
(3)	nurse or control stations permit direct	
	visual observation of traffic into	
	semi-restricted area	
2.2-3.3.6.6	Hand scrub facilities	
2.1-2.8.6.1	at least one hand scrub position for	
	each cesarean delivery room, operating room & Class 3 imaging room	
212062	located next to entrance to each	
2.1-2.8.6.2	room (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	

	Architectural Requirements	Building Systems Requirements	
2.2-3.3.6.13(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		
2.2-3.3.6.14	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)	provisions for storage of supplies &	Ventilation:	<b>- -</b> .
(5)	housekeeping equipment	Min. 10 air changes per hour	Table 7.1
(3)	handwashing station	Exhaust	
	or	<ul><li>Negative pressure</li><li>No recirculating room units</li></ul>	
	hand sanitation station	No recirculating room units	
2.2-3.3.6.15	"SATELLITE" STERILE PROCESSING FACILITIES		
2.2 0.0.0.10	□ check if <u>not</u> 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		
2.1 3.1.2.1(2)	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		
2.1 0.1.2.2	☐ 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 pass-through door or window		
(1)(b)	Sterilizer access room for maintaining		
(-/(-/	equipment		
	☐ check if <u>not</u> included in project		
(=)			
(2)	Decontamination room	Vantilation	
(a)	sized to meet min. equipment space & clearances needed for equipment used	Ventilation: Min. 6 air changes per hour	Table 7.1
	equipment shown on plans	Exhaust	1 abic 1.1
(b)	work counter(s)	Negative pressure	
. •	handwashing station	No recirculating room units	
	three-basin sink with counter		

#### **Architectural Requirements Building Systems Requirements** flushing-rim clinical sink or equivalent fixture or 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) Clean workroom Ventilation: (3)\_\_\_ sized to accommodate sterilization (a) Min. 4 air changes per hour Table 7.1 equipment used Positive pressure No recirculating room units equipment shown on plans work counter (b) handwashing station storage for sterilization supplies documentation area instrument air outlet for drying instruments or portable compressed air for drying instruments cooling area for sterilization cart ☐ check if not included in project Sterile storage (provided for storage of (4)sterile instruments & supplies) Ventilation: area part of clean workroom Table 7.1 (a) \_\_\_ Min. 4 air changes per hour Positive pressure separate storage room (b) space for case cart storage ☐ check if not included in project (only if case carts are not used) One-room sterile processing facility 2.1-5.1.2.3 ☐ check if not included in project (1)consists of decontamination area & clean work area two entrances (b) or single entrance \_\_\_ located approximately equidistant from clean & decontamination

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sides of room

allows for one-way traffic flow

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	Architectural Requirements	<b>Building Systems Requirements</b>	
(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 portable compressed air for drying instruments	Ventilation:  Min. 6 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7.1
(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 Positive pressure	Table 7.1
(a)	separate room  or  portion of clean workroom	i ositivo piessure	
(b)	<ul> <li>space for case cart storage</li> <li>check if not 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 Positive pressure	Table 7.1
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)		

	Architectural Requirements	Building Systems Requirements	
(1)(b) (1)(c)	staff changing areas meet requirements of unrestricted area (may are shared with other departments or services)		
(2)(a) (2)(b)	lockers toilet room	Ventilation:	
(2)(c)	handwashing station	<ul><li>Min. 10 air changes per hour</li><li>Exhaust</li><li>Negative pressure</li></ul>	Table 7.1
(2)(d) (2)(e)	<ul><li>space for donning surgical attire</li><li>provision for separate storage of clean</li><li>soiled work attire</li></ul>	No recirculating room units	
2.2-3.3.7	SUPPORT AREAS DIRECTLY ACCESSIBLE TO SEMI-RESTRICTED AREA		
2.2-3.3.7.12	Soiled workroom or soiled holding room		
(c)	no direct connection with operating rooms or other sterile activity rooms		
2.1-2.8.12.2	soiled workroom	Ventilation: Min. 10 air changes per hour	Table 7.1
(1)(a)	handwashing station	Exhaust	
(1)(b)	flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture	Negative pressure No recirculating room units	
(1)(c)	work counter		
(1)(d)	space for separate covered containers for waste & soiled linen	Nurse Call System: Duty station (light/sound signal)	Table 2.1-2
(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  or		
2.1-2.8.12.3	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 containers for waste & soiled linen	No recirculating room units	
2.2-3.3.7.12(3)	other provisions for disposal of liquid waste are provided and described in Project Narrative		
2.2-3.3.7.13	Clean equipment & supply storage for clean equipment & supplies used in semi-restricted & restricted areas	Ventilation: Min. 4 air changes per hour Positive pressure No recirculating room units	Table 7.1
(1)	general clean equipment & supply room separate from & have no direct		
(2)	connection with soiled holding room min. 50 sf per operating room min. 300 sf		

# **Building Systems Requirements**

2.2-3.3.8	OTHER SUPPORT AREAS IN SURGERY DEPARTMENT		
2.2-3.3.8.13(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 gases used in facility including space for reserve cylinders provided</li> <li>protected in accordance with NFPA 99 Health Care Facilities Code</li> </ul>		
(6)	<ul><li>Storage for large clinical equipment</li><li>□ check if <u>not</u> included in project</li></ul>		
2.2-3.3.8.16	Storage for blood, organs, tissue & pathological specimens		
(1)	equipment temperature controls alarms a monitoring		
2.1-4.1.2.3 (1) (2)	Refrigerated storage facilities refrigerator blood storage facilities		
2.2-3.3.8.17	Area for preparation & examination of frozen sections located in Surgical Department or located in general laboratory immediate results are obtainable		
2.2-3.3.9	SUPPORT AREAS FOR SURGERY DEPARTMENT STAFF		
2.2-3.3.9.1	Staff lounge		
2.2-3.3.9.4 (1)	Staff changing area & toilet facilities one or more private changing rooms or areas for male & female staff working in semi-restricted & restricted areas of surgery department		
(2)(a) (2)(b)	lockers showers	Ventilation:	
(2)(c)	toilets	<ul> <li>Min. 10 air changes per hour</li> <li>Exhaust</li> <li>Negative pressure</li> <li>No recirculating room units</li> </ul>	Table 7.1
(2)(d) (2)(e)	handwashing stations space for donning & doffing surgical attire		
(2)(f)	provisions for separate storage of clean & soiled surgical attire		

	Architectural Requirements	Bu	ilding Systems Requirements
2.2-3.3.10	SUPPORT AREAS FOR PATIENTS FAMIL	LIES	
2.2-3.3.10.3 (2)	<ul> <li>VISITORS         <ul> <li>Patient changing area</li> <li>□ check if not included in project (only patients are assigned private holding reor cubicles)</li> </ul> </li> </ul>		
(1)(a)	provisions for storing patients' belongings during procedures		
(1)(b)	toilet room	Ve 	ntilation: _ Min. 10 air changes per hour Table 7.1 _ Exhaust _ Negative pressure
(1)(c)	space for changing or gowning		No recirculating room units
2.2-3.3.10.4	Waiting area for families & visitors		
Directly access without going the Adjacent: Local Immediately access	ERMINOLOGY:  ible: Connected to the identified area or roor brough an intervening room or public space ated next to but not necessarily connected to cessible: Available either in or adjacent to the ible: Available on the same floor or in the sa	the identifie	ed area or room area or room
Architectural D	etails & MEP Requirements	(2)	
	RCHITECTURAL DETAILS  ORRIDOR WIDTH:	(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>
2.1-7.2.2.1 NFPA 101, 18.2.3.4 or	Aisles, corridors & ramps required for exit access in a hospital not less than 8'-0" in clear & unobstructed width	2.1-7.2. (1) (a)	
or —	<ul> <li>Aisles, corridors &amp; ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear &amp; unobstructed width</li> <li>Detailed code review incorporated in Project Narrative</li> </ul>		□ check if <u>not</u> included in project manual or automatic sliding doors comply with NFPA 101 detailed code review included in Project Narrative no floor tracks
2.1-7.2.2.2 CI (1)	EILING HEIGHT:  Min ceiling height 7'-6"in corridors & in normally unoccupied spaces  Min. height 7'-0" in radiography, procedure & operating rooms from floor to lowest protruding element of equipment or fixture in stowed position	(2) (a) (b)	Door Opening: min. 45.5" clear door width for diagnostic/treatment areas min. 83.5" clear door height for diagnostic/treatment areas swinging doors for personnel use in addition to sliding doors □ check if not included in project min. clear width 34.5"

(3) (a)	Door Swing: doors do not swing into corridors	(5)	Provisions for drying hands  □ check if <u>not</u> included in project
	except doors to non-occupiable spaces & doors with emergency breakaway hardware	(a)	(only at hand scrub facilities) hand-drying device does not require hands to contact dispenser
(4)	Lever hardware or push/pull latch	(b)	hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing
(5)	Doors for Patient Toilet Facilities:	(6) 2.1-7.2.2.9	Liquid or foam soap dispensers GRAB BARS:
(a)	two separate doors or	(1)	<ul> <li>Grab bars anchored to sustain</li> <li>concentrated load 250 pounds</li> <li>Ends of grab bars constructed to</li> </ul>
	door that swings outward or door equipped with emergency	2.1-7.2.2.11	prevent snagging clothes of patients staff & visitors RADIATION PROTECTION:
	rescue hardware (permits quick access from outside the room to	2.1-7.2.2.11	☐ check if no radiation emitting equipment is included in project
	prevent blockage of the door)  or		Protection for X-ray & Gamma-ray installations are shown in the plans
	sliding door other than pocket door		Documentation for radiation protection has been submitted separately to the DPH Radiation
(b)	toilet room opens onto public area or corridor	2.1-7.2.2.12	Control Program NOISE CONTROL:
	<ul><li>☐ check if <u>not</u> included in project</li><li> visual privacy is maintained</li></ul>	(1)	<ul> <li>Recreation rooms, exercise rooms         equipment rooms &amp; similar spaces         where impact noises may be</li> </ul>
2.1-7.2.2.7	GLAZING MATERIALS: Glazing within 1 foot 6 inches of floor		generated are not located directly over operating suites
	<ul> <li>□ check if <u>not</u> included in project</li> <li> must be safety glass, wire glass</li> <li>or plastic break-resistant material</li> </ul>		Special provisions are made to minimize impact noise
2.1-7.2.2.8	HANDWASHING STATIONS:	(2)	Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling
(1)(c)	<ul> <li>Handwashing stations in patient care areas located so they are visible &amp; unobstructed</li> </ul>	2.1-7.2.3	construction are met in patient areas  SURFACES
(3)	visible & dilobstracted	2.1-7.2.3.1	FLOORING & WALL BASES:
(a)	— Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious	(1)	<ul> <li>Flooring surfaces cleanable &amp; wear-resistant for location</li> <li>Smooth transitions provided</li> </ul>
(b)	plastic laminate assembly  Countertops substrate	(4)	between different flooring materials  Flooring surfaces including those on
	<ul><li>☐ check if <u>not</u> included in project</li><li> marine-grade plywood (or</li></ul>	(5)	stairways are stable, firm & slip-resistant Floors & wall bases of soiled
(4)	equivalent material) with impervious seal Handwashing station casework		workrooms, toilet rooms & other areas subject to frequent wet cleaning are constructed of materials that are not
(4)	<ul> <li>☐ check if <u>not</u> included in project</li> <li>☐ designed to prevent storage</li> <li>beneath sink</li> </ul>		physically affected by germicidal or other types of cleaning solutions

(7)(a)	Floors are monolithic & integral coved wall bases are at least 6" high	2.1-7.2.4 2.1-7.2.4.1	FURNISHINGS: Built-in furnishings upholstered with
	& tightly sealed to wall in rooms listed below	211 1121 111	impervious materials in patient treatment areas with risks of
	Operating rooms		exposure & contamination from bodily fluids & other fluids
	<ul> <li>Procedure rooms where cystoscopy, urology &amp; endoscopy</li> </ul>	2.1-7.2.4.3	Privacy curtains in patient care areas
	procedures are performed		are washable
	<ul> <li>Airborne infection isolation (AII)</li> </ul>	2.1-8.2	HEATING VENTILATION &
	room & any anteroom	2.1-0.2	AIR-CONDITIONING (HVAC) SYSTEMS
	<ul> <li>Protective environment (PE) room &amp; any anteroom</li> </ul>	Part 3/6.1	UTILITIES:
	Sterile processing facility	Part 3/6.1.1	Ventilation Upon Loss of Electrical Power:
2.1-7.2.3.2	WALLS & WALL PROTECTION:		space ventilation & pressure
(1)(a)	Wall finishes are washable		relationship requirements of Table 7.1 are maintained for AII
(1)(b)	Wall finishes near plumbing fixtures		Rooms & Operating Rooms in
	are smooth, scrubbable &		event of loss of normal electrical
	water-resistant		power
(2)	Wall surfaces in areas routinely	Part 3/6.1.2	Hooting & Cooling Sources
	subjected to wet spray or splatter are monolithic or have sealed seams that	Part 3/6.1.2.1	Heating & Cooling Sources: heat sources & essential
	are tight & smooth		accessories provided in number
(5)	Wall protection devices & corner		& arrangement sufficient to
	guards durable & scrubbable		accommodate facility needs
2.1-7.2.3.3	CEILINGS:		(reserve capacity) even when any one of heat sources or
(1)	Ceilings provided in all areas except mechanical, electrical &		essential accessories is not
	communications equipment rooms		operating due to breakdown or
(a)	Ceilings cleanable with routine		routine maintenance capacity of remaining source or
(b)	housekeeping equipment Acoustic & lay-in ceilings where used		sources is sufficient to provide
(b)	do not create ledges or crevices		heating for operating rooms &
			recovery rooms
(2)	Semi-Restricted Areas:	Part 3/6.1.2.2	Central cooling systems greater
(0)	<ul> <li>□ check if <u>not</u> included in project</li> <li> ceiling finishes are scrubbable,</li> </ul>	1 art 0/0.1.2.2	than 400 tons (1407 kW) peak
(a)	non absorptive, non perforated,		cooling load
	& capable of withstanding		☐ check if <u>not</u> included in project
<i>a</i> >	cleaning with chemicals		number & arrangement of cooling sources & essential
(b)	lay-in ceilings gasketed or each ceiling		accessories is sufficient to
	tile weighs min. 1lbs./sq. ft.		support facility operation plan
(c)	no perforated, tegular,		upon breakdown or routine
	serrated or highly textured		maintenance of any one of cooling sources
	tiles or		cooming sources
	ceilings of monolithic construction	Part 3/6.2	AIR-HANDLING UNIT (AHU) DESIGN:
(3)	Restricted Areas:	Part 3/6.2.1	AHU casing is designed to prevent
X = 7	☐ check if <u>not</u> included in project		water intrusion, resist corrosion &
(a)	ceilings of monolithic construction		permit access for inspection & maintenance
(b)	(except for central diffuser array)		maimonanos
(b)	ceiling finishes scrubbable &		
	capable of withstanding cleaning & disinfecting chemicals		
(c)	access openings are gasketed		

Part 3/6.3	OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:	Part 3/6.4	FILTRATION: Two filter banks for inpatient care
Part 3/6.3.1 Part 3/6.3.1.1	Outdoor Air Intakes: located min. of 25'-0" from cooling towers & all exhaust & vent discharges outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade air intakes located away from public access		(see Table 6.4)  Filter Bank No. 1: MERV 7  Filter Bank No. 2: MERV 14  One filter bank MERV 13 for laboratories (see Table 6.4)  Each filter bank with efficiency of greater than MERV 12 is provided with differential pressure measuring device to indicate when filter needs to be changed
Part 3/6.3.1.3	<ul> <li>intakes on top of buildings</li> <li>check if not included in project</li> <li>located with bottom of air intake min. of 3'-0" above roof level</li> </ul>	Part 3/6.4.1 Part 3/6.4.2	<ul> <li>Filter Bank No. 1 is placed upstream of heating &amp; cooling coils</li> <li>Filter Bank No. 2 is placed downstream of all wet-air cooling coils &amp; supply fan</li> </ul>
Part 3/6.3.1.4	<ul> <li> intake in areaway</li> <li> check if not included in project</li> <li> bottom of areaway air intake opening is at least 6'-0" above grade</li> <li> bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway</li> </ul>	Part 3/6.5 Part 3/6.5.3	HEATING & COOLING SYSTEMS:  Radiant heating systems  check if not included in project ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in AII room, PE room, OR or procedure room
Part 3/6.3.2	Exhaust Discharges for Infectious Exhaust Air:   — check if not included in project	Part 3/6.7 Part 3/6.7.1	AIR DISTRIBUTION SYSTEMS:  Maintain pressure relationships required in tables 7.1 in all modes of
Part 3/6.3.2.1	ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms) exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building		HVAC system operation Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems
Part 3/6.3.2.2	exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10 feet	Part 3/6.7.2 Part 3/6.7.3	Air Distribution Devices: supply air outlets comply with Table 6.7.2 Smoke Barriers:
	above adjoining roof level exhaust discharge outlets from laboratory work area chemical fume hoods discharge with stack		— HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.
	velocity of at least 2500 fpm exhaust discharge outlets from AII rooms bronchoscopy & sputum collection exhaust & laboratory work area chemical fume hoods is located not less than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are	Part 3/6.8 Part 3/6.8.1 Part 3/6.8.2	ENERGY RECOVERY SYSTEMS:  ☐ check if <u>not</u> included in project  Located upstream of Filter Bank No. 2  AII room exhaust systems or combination AII/PE rooms are not used for energy recovery

normally accessible to public

Part 3/6.8.3	Energy recovery systems with leakage potential  □ check if not included in project arranged to minimize potential to transfer exhaust air directly back into supply airstream designed to have no more than 5% of total supply airstream consisting of exhaust air not used from these exhaust		<ul> <li>Exhaust air from AII rooms,</li> <li>associated anterooms &amp; toilet rooms is discharged directly to outdoors without mixing with exhaust air from any other non-AII room or exhaust system</li> <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> </ul>
	airstream sources: waste anesthesia gas disposal, soiled or decontamination room		<ul><li>Anteroom</li><li>check if <u>not</u> included in project</li><li>AII room is at negative</li></ul>
Part 3/7.1.a.1	SPACE VENTILATION  Spaces ventilated according to Table 7.1  Air movement is from clean to less- clean areas	Part 3/7.4.1	pressure with respect to anteroom Anteroom is at negative pressure with respect to corridor Operating Rooms
Part 3/7.1.a.3  Part 3/7.1.a.4	<ul> <li>Min. number of total air changes required for positive pressure rooms is provided by total supply airflow</li> <li>Min. number of total air changes required for negative pressure rooms is provided by total exhaust airflow</li> <li>Entire minimum outdoor air changes</li> </ul>		<ul> <li>□ check if <u>not</u> included in project</li> <li> Each OR has individual temperature control</li> <li> OR is provided with primary supply diffuser array designed as follows:</li> <li> airflow is unidirectional</li> </ul>
r an orr.n.a.+	per hour required by Table 7.1 for each space meet filtration requirements of Section 6.4		downwards & average velocity of diffusers is 25 to 35 CFM/ft <sup>2</sup> diffusers are concentrated to provide airflow pattern over
Part 3/7.1a.5	Air recirculation through room unit  □ check if not included in project complies with Table 7.1 room unit receive filtered & conditioned outdoor air serve only a single space provides min. MERV 6 filter located upstream of any cold surface so that all of air passing over cold surface is filtered		patient & surgical team coverage area of primary supply diffuser array extends min. 12" 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
Part 3/7.2	ADDITIONAL ROOM-SPECIFIC		<ul><li>☐ check if <u>not</u> included in projec</li><li>each OR has at least two low</li></ul>
Part 3/7.2.1	REQUIREMENTS: Airborne Infection Isolation (AII) Rooms  check if not included in project AII rooms have permanently installed device and/or mechanism to constantly monitor differential air		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
	pressure between room & corridor Local visual means is provided to indicate whenever negative differential pressure is not maintained Air from AII room is exhausted directly to outdoors	Part 3/7.4.3	Imaging Procedure Rooms  ☐ check if <u>not</u> included in project  Anesthetic gases are administered  ventilation requirements for operating rooms are met  or No anesthetic gases are administered

2.1-8.3	ELECTRICAL SYSTEMS	2.1-8.4 2.1-8.4.2	PLUMBING SYSTEMS Plumbing & Other Piping Systems:
2.1-8.3.2	ELECTRICAL DISTRIBUTION & TRANSMISSION	2.1-8.4.2.1(3)	no plumbing piping exposed overhead or on walls where
2.1-8.3.2.2	Panelboards:		possible accumulation of dust or
(1)	panelboards serving life safety		soil may create cleaning problem
	branch circuits serve floors on		
	which they are located & floors immediately above & below	2.1-8.4.2.5	Heated Potable Water Distribution Systems:
(2)	panelboard critical branch	(2)	heated potable water
	circuits serve floors on which they are located		distribution systems serving patient care areas are under
(3)	panelboards not located in exit enclosures or exit passageways		constant recirculation non-recirculated fixture branch
2.1-8.3.2.3	Ground-Fault Circuit Interrupters in		piping max. length 25'-0"
	Critical Care Areas:	(3)(a)	no installation of dead-end
	☐ check if <u>not</u> included in project		piping (except for empty risers
(2)	each receptacle individually	(3)(c)	mains & branches for future use)
• •	protected by single GFCI device	(3)(b)	any existing dead-end piping is
	, , ,		removed
2.1-8.3.3	POWER-GENERATING & -STORING		□ check if <u>not</u> included in project
	EQUIPMENT	(4)(a)	water-heating system supplies
2.1-8.3.3.1	Essential electrical system or		water at temperatures &
	emergency electrical power		amounts indicated in Table 2.1-4
(1)	essential electrical system		
4-1	complies with NFPA 99	2.1-8.4.2.6	Drainage Systems:
(2)	emergency electrical power complies with NFPA 99	(1)(a)	drainage piping installed above ceiling of or exposed in operating
			rooms, procedure rooms, sterile
2.1-8.3.5	ELECTRICAL EQUIPMENT		processing facilities, electronic
2.1-8.3.5.1	Handwashing sinks & scrub sinks		data processing areas & electric
	that depends on building electrical		closets
	service for operation are connected		□ check if <u>not</u> included in project
	to essential electrical system		special provisions to protect
040050	☐ check if <u>not</u> included in project		space below from leakage
2.1-8.3.5.2	Electronic health record system		& condensation
	servers & centralized storage provided	(1)(b)	drip pan for drainage piping
	with uninterruptible power supply		above ceiling of sensitive area
2.1-8.3.6	ELECTRICAL RECEPTACLES		☐ check if <u>not</u> included in project
2.1-8.3.6.1	Receptacles In Corridors:		accessible
(1)	duplex-grounded receptacles		overflow drain with outlet
(1)	for general use installed 50'-0"		
	apart or less in all corridors		located in normally occupied area that is not
	duplex-grounded receptacles		open to restricted area
	for general use installed within	(2)	Floor Drains:
	25'-0" of corridor ends	(2) (a)	
	20 0 0 0000000	(α)	no floor drains in procedure
2.1-8.3.6.3	Essential Electrical System		rooms, operating rooms, Class 2 & Class 3 imaging rooms
	Receptacles:	(b)	
(1)	cover plates for electrical	(6)	floor drain in dedicated
	receptacles supplied from		cystoscopy procedure room
	essential electrical system are		□ check if <u>not</u> included in project
	distinctively colored or marked		recessed floor sink with
	for identification		automatic trap primer
(2)	same color is used throughout facility		

2.1-8.4.3	PLUMBING FIXTURES	2.1-8.4.3.6	Scrub Sinks:
2.1-8.4.3.1(1)	Materials used for plumbing fixtures are non-absorptive & acid-resistant	(1)	freestanding scrub sinks are trimmed with foot, knee or electronic sensor controls
2.1-8.4.3.2	Handwashing Station Sinks:	(2)	no single-lever wrist blades
(1)	<ul><li>sinks in handwashing stations are designed with basins that will reduce risk of splashing to</li></ul>	(-)	except for temperature pre-set valve
	areas where direct patient care is provided, sterile procedures are performed & medications	2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS Station outlets provided as indicated in Table 2.1-3
(0)	are prepared		
(2)	sink basins have nominal size of no less than 144 square inches sink basins have min. dimension	2.1-8.5.1 2.1-8.5.1.1(1)	CALL SYSTEMS  Nurse call stations provided as required in Table 2.1-2
(3)	<ul><li>9 inches in width or length</li><li>sink basins are made of porcelain, stainless steel or</li></ul>	2.1-8.5.1.1(2)	Nurse call systems report to attended location with electronically supervised visual & audible annunciation as
(5)	solid-surface materials  water discharge point of faucets is at least 10" above bottom of basin	2.1-8.5.1.1(4)	indicated in Table 2.1-2 Call system complies with UL 1069 "Standard for Hospital Signaling &
(7)	<ul><li>anchored so that allowable stresses are not exceeded where vertical or horizontal</li></ul>	2.1-8.5.1.1(5)	Nurse Call Equipment"  Wireless nurse call system  check if <u>not</u> included in project  complies with UL 1069
(8)	force of 250 lbs. is applied sinks used by staff, patients, & public have fittings that can be operated without using hands	2.1-8.5.1.2(4)	Nurse call system provided in each patient care area as required in Table 2.1-2
	(may be single-lever or wrist blade devices)		
(a)	blade handles	2.1-8.5.1.3	Bath Stations:
	<ul> <li>☐ check if <u>not</u> included in project</li> <li> at least 4 inches in length</li> </ul>		<ul> <li>bath station that can be</li> <li>activated by patient lying on floor</li> <li>provided at each patient toilet</li> </ul>
(b)	provide clearance required for operation sensor-regulated water fixtures	(1)	alarm in these areas can be turned off only at bath station where it was initiated
	☐ check if <u>not</u> included in project meet user need for temperature & length of	(3)	toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
	time water flows  designed to function at all times and during loss of normal power	2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or
2.1-8.4.3.4	Ice-Making Equipment: copper tubing provided for supply connections to		visual confirmation to person who initiated the code call
2.1-8.4.3.5	ice-making equipment Clinical Flushing-Rim Sinks:	2.1-8.6.2	ELECTRONIC SURVEILLANCE SYSTEMS  Shock if not included in project
(1) (a)	trimmed with valves that can are operated without hands (may be single-lever or wrist	2.1-8.6.2.2	<ul> <li>check if <u>not</u> included in project</li> <li>monitoring devices are located so they are not readily observable by</li> </ul>
	blade devices)	2.1-8.6.2.3	general public or patients electronic surveillance systems
(b)	handles are at least 6 in. long		receive power from essential
(2)	integral trap wherein upper portion of water trap provides visible seal		electrical system