

**COMPLIANCE CHECKLIST**

**IP28: General Support Facilities**

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 2014 Edition of the FGI Guidelines for Design and Construction of Hospitals and Outpatient Facilities. 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 (2000) and applicable related standards contained in the appendices of the Code
- State Building Code (780 CMR)
- Joint Commission on the Accreditation of Health Care Organizations
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797
- 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 Part II of the 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 symbols, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the symbol "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.

= Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area.

**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.

**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).

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, and waste anesthesia gas disposal outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", & "WAGD".
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.

Facility Name: \_\_\_\_\_

DoN Project Number: (if applicable)

Facility Address: \_\_\_\_\_

Nursing Unit Bed Complements:

Current =                      Proposed =

Satellite Name: (if applicable) \_\_\_\_\_

Building/Floor Location: \_\_\_\_\_

Satellite Address: (if applicable) \_\_\_\_\_

Submission Dates:

Initial Date:

Revision Date:

Project Description: \_\_\_\_\_

**Architectural Requirements**

**Building Systems Requirements**

2.2-5

**GENERAL SUPPORT FACILITIES**

2.2-5.1

**CENTRAL SERVICES**

check if not included in project

2.1-5.1.1.2

Layout:  
 soiled & clean work areas physically separated.

2.1-5.1.2

Clean assembly/workroom

2.1-5.1.2.1

work space

2.1-5.1.2.2

handwashing station

2.1-5.1.2.3

equipment for terminal sterilization and/or high-level disinfection of medical & surgical equipment & supplies

Ventilation:

Min. 4 air changes per hour

Table 7.1

Positive pressure

2.1-5.1.3

Soiled workroom

2.1-5.1.3.1

physically separated from all other areas of department.

2.1-5.1.3.2

work space to handle cleaning & initial washing of all medical/ surgical instruments & equipment

Ventilation:

Min. 6 air changes per hour

Table 7.1

Negative pressure

(1)

work counter

(2)

handwashing station

(3)

flushing-rim clinical sink or equivalent fixture

(4)

space for washer/sterilizer decontaminator

(5)

space for waste & soiled linen receptacle

Exhaust

No recirculating room units

2.1-5.1.3.3

pass-through doors & washer/sterilizer decontaminators shall deliver items into clean assembly/workroom

2.1-5.1.4

Equipment & Supply Storage:

2.1-5.1.4.1

clean/sterile medical/surgical supplies room

Ventilation:

Min. 4 air changes per hour

Table 7.1

Positive pressure

(1)

adjacent to, but separate from, clean assembly/workroom

(2)

storage for clean/sterile packs include provisions for ventilation, humidity & temperature control

2.1-5.1.4.2

storage room for patient care & distribution carts  
 adjacent to clean/sterile storage & close to main distribution point to keep traffic to minimum & ease work flow

**Architectural Requirements**

- 2.1-5.1.7 Support Areas for Staff:
  - toilet rooms, lockers & lounge facilities for staff
- 2.1-5.1.7.1  readily accessible to central services department (may be shared with other departments or services)
- 2.1-5.1.7.2  readily accessible to central services department (may be shared with other departments or services)
- 2.2-5.1.2.1  separate clothing change areas with toilet facilities for male & female personnel
- 2.2-5.1.2.3
  - (1)  lockers
  - (2)  handwashing stations
  - (3)  toilets
  - (4)  showers

**Building Systems Requirements**

- Ventilation:
- Min.10 air changes per hour Table 7.1
  - Exhaust

- Ventilation:
- Min.10 air changes per hour Table 7.1
  - Exhaust

- 2.1-5.2 **LINEN SERVICES**  
 check if not included in project

- 2.1-5.2.1.2 Location:
  - linen processing occurs in hospital
  - or**
  - linen processing occurs in separate building located on hospital campus
  - or**
  - linen processing occurs in off-site commercial or industrial laundry

- 2.1-5.2.2 On-Site Linen Processing Facilities:  
 check if not included in project

- 2.1-5.2.2.1
  - (1)  Soiled linen holding room
    - (a)  handwashing station located in each room or area where soiled linen is processed or handled
    - (b)  discharge from soiled linen chutes
      - check if not included in project
      - received in separate room
  - (2)  Clean linen inspection room or area
    - (a)  area for inspection, removal of lint, mending, folding, assembling & packaging of clean linen
    - (b)  space for table, shelving & storage
    - (3)  clean linen storage room
    - (4)  cart storage area
      - area for separate parking of clean & soiled linen carts
      - out of traffic

- Ventilation:
- Min. 10 air changes per hour Table 7.1
  - Negative pressure
  - Exhaust
  - No recirculating room units

**Architectural Requirements**

**Building Systems Requirements**

- (5)  Linen processing facilities located in separate building on hospital campus  
 check if not included in project  
 service entrance protected from inclement weather for loading & unloading of linen
  
- 2.1-5.2.2.2  Laundry facilities
- (1)  equipment arranged to permit orderly work flow & minimize cross-traffic that might mix clean & soiled operations
- (2)  laundry processing room  
 space for commercial or industrial washing & drying equipment that can process at least 7-day supply of laundry during regularly scheduled work week
- (3)  handwashing station
- (4)  storage for laundry supplies
- 2.1-5.2.3 Support Areas for Off-Site Linen Processing:  
 check if not included in project
- 2.1-5.2.3.1  soiled linen holding room
- (1)  separate room for soiled linen receiving & holding
- (2)  discharge from soiled linen chutes  
 check if not included in project  
 received in separate room adjacent to soiled holding room
- 2.1-5.2.3.2  clean linen storage room
- 2.1-5.2.3.3  cart storage area  
 area for separate parking of clean & soiled linen carts  
 out of traffic
- 2.1-5.2.3.4  service entrance available for loading & unloading linen
- 2.1-5.2.3.5  control station
- (1)  controls pickup & receiving of soiled & clean linen
  
- 2.1-5.2.4 Support Areas for Staff:  
 (may be located outside linen services area & shared with other departments or services)
- 2.1-5.2.4.1  toilets, lockers & lounge
- (1)  readily accessible to linen services area

- Ventilation:
- Min. 10 air changes per hour Table 7.1
- Negative pressure
- Exhaust
- No recirculating room units

- Ventilation:
- Min. 10 air changes per hour Table 7.1
- Negative pressure
- Exhaust
- No recirculating room units

**Architectural Requirements**

**Building Systems Requirements**

2.1-5.3

**MATERIALS MANAGEMENT**

check if not included in project

2.1-5.3.1.2

Location:

\_\_\_ materials management facilities  
separate from patient care areas

2.1-5.3.2

\_\_\_ Receiving facilities

2.1-5.3.2.1

\_\_\_ off-street unloading area

2.1-5.3.2.2

\_\_\_ receiving area  
\_\_\_ accommodates delivery trucks &  
other vehicles

(1)

Location:

(a)

\_\_\_ separated from other occupied  
building areas & located so  
that noise & odors from  
operation will not adversely  
affect building occupants

(b)

\_\_\_ segregated from waste  
staging & other outgoing  
materials handling functions

(2)

Space Requirements:

(a)

\_\_\_ area for unpacking, sorting &  
staging of incoming materials  
& supplies

(b)

\_\_\_ balers & other devices  
located to capture packaging  
for recycling or return to  
manufacturer or deliverer  
 check if not included in project

(c)

\_\_\_ space to permit staging of  
reusable transport containers  
for supplies moving from  
central warehouses to  
individual receiving sites  
 check if not included in project

2.1-5.3.3

\_\_\_ Central storage facilities

2.1-5.3.3.1

(may be located in separate building on-site  
with provisions for protection against  
inclement weather during transfer of supplies  
to hospital)

2.1-5.3.3.2

\_\_\_ general storage rooms with min. total  
area 20 sf per inpatient bed

2.1-5.3.3.3

\_\_\_ additional storage areas for outpatient  
facilities min. 5% of total floor area  
outpatient facilities served

**Architectural Requirements**

**Building Systems Requirements**

2.1-5.4

**WASTE MANAGEMENT**

check if not included in project

2.1-5.4.1

\_\_\_ Waste collection & storage facilities

2.1-5.4.1.1(2)

- (a) \_\_\_ centralized waste collection & storage spaces
- (b) \_\_\_ compactors
- (c) \_\_\_ balers
- (d) \_\_\_ sharps containers
- (e) \_\_\_ recycling container staging at docks or other waste removal areas

2.1-5.4.1.3

- (1) \_\_\_ regulated waste holding spaces secured space for regulated medical waste & other regulated waste types
  - (a) \_\_\_ floor drain
  - (b) \_\_\_ cleanable, non-porous floor & wall surfaces
  - (c) \_\_\_ lighting
  - (d) \_\_\_ exhaust ventilation
- (2) \_\_\_ protected from weather, animals & unauthorized entry

Ventilation:

- \_\_\_ Min. 10 air changes per hour Table 7.1
- \_\_\_ Negative pressure
- \_\_\_ Exhaust
- \_\_\_ No recirculating room units

2.1-5.4.1.4

- \_\_\_ refuse chutes
  - check if not included in project
  - (2) \_\_\_ min. cross-sectional dimension of gravity chutes 2'-0"

2.1-5.5

**ENVIRONMENTAL SERVICES**

check if not included in project

2.1-5.5.1

\_\_\_ Environmental services rooms located throughout facility

2.1-5.5.2

\_\_\_ Facilities for cleaning & sanitizing carts

2.1-5.6

**ENGINEERING & MAINTENANCE SERVICES**

check if not included in project

2.1-5.6.2

Mechanical & Electrical Equipment Rooms:

2.1-5.6.2.1

- Space Requirements:
  - \_\_\_ sufficient space included in all mechanical & electrical equipment rooms for proper maintenance of equipment

2.1-5.6.2.2

- Facility Requirements:
  - \_\_\_ room or building for boilers & mechanical & electrical equipment, except for following:
    - (1) \_\_\_ rooftop air-conditioning & ventilation equipment installed in weatherproof housing
    - (2) \_\_\_ emergency generators where engine & appropriate accessories are properly heated & enclosed in weatherproof housing

**Architectural Requirements****Building Systems Requirements**

- (3)  cooling towers & heat rejection equipment
- (4)  electrical transformers & switchgear where required to serve facility & where installed in weatherproof housing
- (5)  medical gas parks & equipment
- (6)  air-cooled chillers where installed in weatherproof housing
- (7)  trash compactors
- (8)  site lighting, post indicator valves & other equipment normally installed on exterior of building

## 2.1-5.6.3 Equipment &amp; Supply Storage:

## 2.1-5.6.3.1

- (1)  storage room for building maintenance supplies
- (2)  storage for solvents & flammable liquids

## 2.1-5.6.3.2

- outdoor equipment storage  
 check if not included in project  
 open directly to exterior of facility

## 2.1-5.6.4

- General maintenance shop  
 check if not included in project

## 2.1-5.6.5

- Medical Equipment Shop:  
 check if not included in project

## 2.1-5.6.5.1

- separate area or room for storage, repair & testing of electronic & other medical equipment

## 2.1-5.6.6

- Engineer's Office:  
 check if not included in project

## 2.1-5.6.6.2

- office file space & provisions for protected storage of facility drawings, records & manuals

## 2.1-5.7

**MORGUE SERVICES**

- check if not included in project

## 2.1-5.7.1.2

- Location:  
 morgue service facilities located to avoid need for transporting body through public areas

## 2.1-5.7.2

- Autopsy facilities  
 check if not included in project

## 2.1-5.7.2.1

- refrigerated facilities for body holding  
 body-holding refrigerators equipped with temperature-monitoring & alarm signals that annunciate at 24-hour staffed location

**Architectural Requirements**

- 2.1-5.7.2.2 (1)  autopsy room
- work counter
- (2)  handwashing station
- storage space for supplies, equipment & specimens
- (3)  autopsy table
- (4)  deep sink for washing specimens

**Building Systems Requirements**

- Ventilation:
- Min. 12 air changes per hour Table 7.1
  - Negative pressure
  - Exhaust
  - No recirculating room units
- Medical Gases:
- 1 VAC per workstation Table 2.1-4

- 2.1-8.4.2.6(6) Autopsy Table Drain Systems:
  - designed to positively avoid splatter or overflow onto floors or back siphonage & for easy cleaning & trap flushing

- 2.1-5.7.2.3  environmental services facilities
  - housekeeping service sink or receptor for cleanup & housekeeping

- 2.1-5.7.3  Body-holding room
  - check if not included in project (only if autopsies are performed outside facility)
  - well-ventilated, temperature-controlled body holding room

- Ventilation:
- Min. 10 air changes per hour Table 7.1
  - Negative pressure
  - Exhaust
  - No recirculating room units

**Architectural Details & MEP Requirements**

**2.1-7.2.2 ARCHITECTURAL DETAILS**

- 2.1-7.2.2.1 CORRIDOR WIDTH:
  - Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear width
- 2.1-7.2.2.2 CEILING HEIGHT:
  - Min. ceiling height 7'-10"
- 2.1-7.2.2.3 DOORS & DOOR HARDWARE:
  - (1)  Doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
  - (a)  Sliding doors
    - check if not included in project
    - manual or automatic sliding doors comply with NFPA 101
    - code review sheet attached
    - no floor tracks

- (3)  Min. clear width 34.5"
- Doors do not swing into corridors (except doors to non-occupiable spaces & doors with emergency breakaway hardware)
- (4)  Lever hardware
- (b) 2.1-7.2.2.7 GLAZING MATERIALS:
  - (4)  Glazing within 18" of floor
    - check if not included in project
    - safety glass, wire glass or plastic break-resistant material
- 2.1-7.2.2.8 HANDWASHING STATIONS:
  - (3)  Anchoring suitable for vertical or horizontal force of 250 lbs
  - (4) Handwashing Station Countertops:
    - check if not included in project
    - (a)  porcelain, stainless steel or solid surface materials

- (b)  plastic laminate countertops  
 check if not included in project
- substrate marine-grade plywood (or equivalent) with impervious seal
- (5)  Designed to prevent storage beneath sink
- (6)  Provisions for drying hands
- (a)  hand-drying device does not require hands to contact dispenser
- (d)  directly accessible\* to sinks
- (7)  Liquid or foam soap dispensers

**2.1-7.2.3 SURFACES**

**2.1-7.2.3.1 FLOORING & WALL BASES:**

- (1)  Selected flooring surfaces cleanable & wear-resistant for location
- (2)  Smooth transitions between different flooring materials
- (3)  Flooring surfaces firm & slip-resistant
- (4)  Provides stable & firm surface
- Floors & wall bases of soiled workrooms, toilet rooms & other wet cleaned areas are not physically affected by cleaning solutions
- (5)  Food & nutrition areas surfaces in preparation, sanitation/warewashing & serving areas non-absorbent, smooth & easily cleaned

**2.1-7.2.3.2 WALLS & WALL PROTECTION:**

- (1)  Washable wall finishes
- (a)  Wall finishes near plumbing fixtures smooth, scrubbable & water-resistant
- (c)  Wall finishes free of fissures, open joints or crevices in:
  - sterile processing rooms
- (2)  Monolithic wall surfaces in areas routinely subjected to wet spray or splatter
- (5)  No sharp, protruding corners
- (6)  Wall protection devices & corner guards durable & scrubbable

**2.1-7.2.3.3 CEILINGS:**

- (1)  Ceilings in clean rooms, soiled rooms, & central services areas:
  - (a)  cleanable with routine housekeeping equipment
  - (b)  acoustic & lay-in ceilings
    - check if not included in project
    - do not create ledges or crevices

- (5)  Laundry Area:
  - check if not included in project
- (a)  sealed monolithic & scrubbable gypsum board ceiling
- or**
- lay-in ceiling
- (b)  non-corrosive grid
- each ceiling tile weighs at least one pound per square foot
- smooth, scrubbable, non absorptive, non perforated

**2.1-8.2 HEATING, VENTILATION, & AIR-CONDITIONING (HVAC) SYSTEMS**

**4/6.3.1 Outdoor Air Intakes:**

- 4/6.3.1.1  Located min. 25 feet from cooling towers & all exhaust & vent discharges
- Bottom of air intake is at least 6'-0" above grade
- Roof Mounted Air Intakes:**
- check if not included in project
- bottom min. 3'-0" above roof level

**4/6.4 Filtration:**

- 4/6.4  Filter banks conform to Table 6.4
- 4/6.4.1  Filter Bank #1 placed upstream of heating & cooling coils
- 4/6.4.2  Filter Bank #2 installed downstream of cooling coils & supply fan

**4/6.7 Air Distribution Systems:**

- 4/6.7.1  Ducted return or exhaust systems in spaces listed in Table 7.1 with required pressure relationships

**4/6.7.3 Smoke & Fire barriers:**

- HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers

**4/6.8 Energy Recovery Systems:**

- 4/6.8.2  Exhaust systems serving potentially contaminated rooms are not used for energy recovery

**4/6.9 Duct Lining:**

- No duct lining in ductwork located downstream of Filter Bank #2

**4/7. Space Ventilation:**

- 4/7.1  Spaces ventilated per Table 7.1
- Air movement from clean areas to less clean areas

- \_\_\_ Min. number of total air changes indicated either supplied for positive pressure rooms or exhausted for negative pressure rooms
- \_\_\_ Recirculating room HVAC units
  - check if not included in project
  - \_\_\_ each unit serves only single space
  - \_\_\_ min. MERV 6 filter for airflow downstream of cooling coils
- (5) Acoustic Considerations:
  - \_\_\_ Equipment location or acoustic provisions limit noise associated with outdoor mechanical equipment to 65 dBA at building façade
- 2.1-8.2.1.2 Ventilation & Space-Conditioning:
  - (1) \_\_\_ All rooms & areas used for patient care have provisions for ventilation
  - (2) \_\_\_ Natural ventilation only allowed for non sensitive areas & patient rooms via operable windows
  - \_\_\_ Mechanical ventilation provided for all rooms & areas in facility in accordance with Table 7.1 of Part 4
- 2.1-8.2.2 HVAC Requirements for Specific Locations:
  - 2.1-8.2.2.2 \_\_\_ ETO sterilizer
    - check if not included in project
    - (1) \_\_\_ dedicated exhaust system
    - \_\_\_ exhaust outlet to outside min. 25'-0" from any air intake
    - (2) \_\_\_ all source areas exhausted
    - (a) \_\_\_ ETO cylinders located in well-ventilated, unoccupied equipment space
    - or**
    - \_\_\_ exhaust hood over cylinders
    - (b) \_\_\_ relief valve terminated in well-ventilated, unoccupied equipt space or outside building
    - (c) \_\_\_ floor drain for sterilizer discharge located in well-ventilated, unoccupied equipt space, or equipped with exhaust drain cap
    - (3) \_\_\_ general airflow away from sterilizer operators
    - (4) \_\_\_ audible & visual alarm upon loss of airflow in exhaust system
    - \_\_\_ stainless steel fume hoods

2.1-8.3 **ELECTRICAL SYSTEMS**

2.1-8.3.2 **ELECTRICAL DISTRIBUTION & TRANSMISSION**

- 2.1-8.3.2.1 Switchboards Locations:
  - check if not included in project
  - (1)
    - (a) \_\_\_ Located in areas separate from piping & plumbing equipment
    - (b) \_\_\_ Not located in rooms they support
    - \_\_\_ Accessible to authorized persons only
    - (c) \_\_\_ Located in dry, ventilated space free of corrosive gases or flammable material
- 2.1-8.3.2.2 Panelboards:
  - check if not included in project
  - (1) \_\_\_ Panelboards serving life safety branch emergency circuits only serve same floor, floor above & floor below
  - (2) \_\_\_ Panelboards serving critical branch emergency circuits only serve same floor
  - (3) \_\_\_ New panelboards not located in exit enclosures
- 2.1-8.3.3.1 **EMERGENCY ELECTRICAL SERVICE**
  - (1) \_\_\_ Emergency power per NFPA 99, NFPA 101 & NFPA 110
  - (2) \_\_\_ Stored fuel generator
    - check if not included in project
    - \_\_\_ storage capacity for continuous operation min. 24 hours
  - (3) Acoustic Considerations for Emergency Generators:
    - (a) \_\_\_ interior & exterior generators designed to limit sound levels at nearest hospital building facades 70 dB
    - \_\_\_ engine exhaust muffler
    - (b) \_\_\_ interior noise levels per Table 1.2-5
- 2.1-8.3.4 **LIGHTING**
  - 2.1-8.3.4.2 \_\_\_ Light fixtures in wet areas smooth, cleanable, shatter-resistant lenses & no exposed lamps
- 2.1-8.3.5 **ELECTRICAL EQUIPMENT**
  - 2.1-8.3.5.2 \_\_\_ Required handwashing station tied to building electrical service
    - check if not included in project
    - \_\_\_ connected to essential electrical system
  - 2.1-8.3.5.3 \_\_\_ Electronic health record system servers & centralized storage equipt
    - check if not included in project
    - \_\_\_ provided with uninterruptible power supply

2.1-8.4.2 **PLUMBING & OTHER PIPING SYSTEMS**

- 2.1-8.4.2.5 Heated Potable Water Distribution Systems:  
 (2) \_\_\_ systems serving patient care areas are under constant recirculation  
 \_\_\_ non-recirculated fixture branch piping does not exceed 25'-0" in length  
 (3) \_\_\_ no dead-end piping  
 (4) \_\_\_ water-heating system has supply capacity at minimum temperatures & amounts indicated in Table 2.1-3

- (5) \_\_\_ handwashing stations supplied as required above  
**or**  
 \_\_\_ handwashing stations supplied at constant temperature between 70°F & 80°F using single-pipe supply

2.1-8.4.3 **PLUMBING FIXTURES**

- 2.1-8.4.3.1 (1) \_\_\_ Materials material used for plumbing fixtures non-absorptive & acid resistant

- 2.1-8.4.3.2 Handwashing Station Sinks:  
 (1) \_\_\_ basins reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed & medications are prepared  
 (2) \_\_\_ basin min. 144 square inches  
 \_\_\_ min. dimension 9 inches  
 (3) \_\_\_ made of porcelain, stainless steel, or solid-surface materials  
 (5) \_\_\_ water discharge point of faucets at least 10 inches above bottom of basin  
 (7) \_\_\_ anchoring for sinks withstands min. vertical or horizontal force of 250 lbs  
 (8) \_\_\_ fittings operated without using hands for sinks used by medical staff

- (a) \_\_\_ blade handles or single lever  
 \_\_\_ min. 4 inches long  
 \_\_\_ provide clearance required for operation  
**or**  
 (b) \_\_\_ sensor-regulated water fixtures meet user need for temperature & length of time water flows  
 \_\_\_ designed to function at all times & during loss of normal power

- 2.1-8.4.3.5 Clinical Sinks:  
 check if not included in project  
 (1) \_\_\_ trimmed with valves that can be operated without hands  
 (2) \_\_\_ handles min. 6 inches long  
 \_\_\_ integral trap wherein upper portion of water trap provides visible seal

2.1-8.4.4 **MEDICAL GAS & VACUUM SYSTEMS**

- 2.1-8.4.4.2 (2) \_\_\_ Vacuum discharge at least 25'-0" from all outside air intakes, doors & operable windows

2.1-8.5 **COMMUNICATIONS SYSTEMS**

- check if not included in project  
 2.1-8.5.1 \_\_\_ Telecommunications Service Entrance Room (TSER)  
 2.1-8.5.1.1 \_\_\_ dedicated to telecommunications function  
 2.1-8.5.1.2 \_\_\_ min. dimensions of 12'-0" by 14'-0"  
 2.1-8.5.1.3 Location & Access Requirements:  
 (1) \_\_\_ Access to TSER restricted & controlled by access control system  
 (2) \_\_\_ Combination of TSER & technology equipment center permitted  
 2.1-8.5.1.4 Building System Requirements:  
 (1) \_\_\_ No mechanical & electrical equipment not directly related to support of TSER  
 (2) \_\_\_ Temperature & humidity in TSER controlled to 64-75°F & 30-55%  
 (3) \_\_\_ HVAC systems serving TSER connected to emergency power systems  
 2.1-8.5.2 \_\_\_ Technology Equipment Center (TEC)  
 2.1-8.5.2.1 \_\_\_ dedicated to data storage, processing, & networking (may be combined with TSER)  
 2.1-8.5.2.3 Location & Access Requirements:  
 (1) \_\_\_ located above any flood plains  
 \_\_\_ located below top level of facility  
 (2) \_\_\_ located away from exterior curtain walls to prevent wind & water damage  
 (3) \_\_\_ located min. 12'-0" from any source of electromagnetic interference  
 (4) \_\_\_ access to TEC restricted & controlled by an access control system

- 2.1-8.5.2.4 Building System Requirements:
  - (1) \_\_\_ no mechanical & electrical equipment not directly related to support of TEC
  - (2) \_\_\_ all computer & networking equipment in TEC served by UPS power
  - (3) \_\_\_ dedicated circuits serving TEC
  - (4) \_\_\_ cooling systems serving TEC supplied by emergency power systems
  
- 2.1-8.5.3 \_\_\_ Technology Distribution Rooms (TDR)
- 2.1-8.5.3.1
  - (1) \_\_\_ min. one TDR on each floor of facility
  - (2) \_\_\_ provided throughout facility to meet 292-foot maximum cable distance
- 2.1-8.5.3.2 \_\_\_ min. dimensions of 12'-0" by 14'-0"
- 2.1-8.5.3.3 Location & Access Requirements:
  - (1) \_\_\_ located in accessible & non-sterile area on each floor
  - (2) (3) \_\_\_ access to TOR directly off corridor & not through another space
  - \_\_\_ access to TDR restricted & controlled by access control system
- 2.1-8.5.3.4 Building System Requirements:
  - (1) \_\_\_ no mechanical & electrical equipment not directly related to support of the TDR
  - (2) \_\_\_ each TDR connected to technology equipment center
  - (3) \_\_\_ dedicated circuits serving TOR
  - (4) \_\_\_ cooling systems serving TDR supplied by emergency power systems
  
- 2.1-8.5.4 \_\_\_ Grounding for Telecommunication Spaces
- 2.1-8.5.4.2
  - (2) \_\_\_ telecommunications grounding bus bar
  - \_\_\_ racks, cabinets, sections of cable tray, & metal components of technology system that do not carry electrical current grounded to bus bar
  - (3) \_\_\_ TGB bars connected by backbone of insulated, #6 to 3/0 awg stranded copper cable between all technology rooms

- 2.1-8.5.4.3 \_\_\_ TGB bars connected back to Telecommunications Main Grounding Bus (TMGB) bar in telecom. service entrance room
- \_\_\_ main grounding bar connected back to building main electrical service ground
  
- 2.1-8.6.2 **ELECTRONIC SURVEILLANCE SYSTEMS**  
 check if not included in project
- 2.1-8.6.2.1 \_\_\_ Devices in patient areas mounted in unobtrusive & tamper-resistant enclosures
- 2.1-8.6.2.2 \_\_\_ Monitoring devices not readily observable by general public or patients
- 2.1-8.6.2.3 \_\_\_ Receive power from emergency electrical system
  
- 2.1-8.7.2 **ELEVATORS**  
 Number:
  - (1) \_\_\_ at least 2 hospital-type elevators with 1-59 beds located on any floor other than main entrance floor
  - (2) \_\_\_ at least 2 hospital-type elevators with 60-200 patient beds located on floors other than main entrance floor
  - (3) \_\_\_ at least 3 hospital-type elevators with 201-350 patient beds located on floors other than main entrance floor
- 2.1-8.7.2.3 Dimensions & Clearances:
  - (1) \_\_\_ elevator cars min. inside clear dim. 5'-8" wide by 9'-0" deep
  - (2) \_\_\_ elevator car doors min. clear width 54" & min. height 84"
- 2.1-8.7.2.5 Elevator controls:
  - (1) \_\_\_ each elevator, except those for material handling, equipped with keyed switch for staff use for bypassing all landing button calls & responding to car button calls only
  - (2) \_\_\_ elevator call buttons & controls not activated by heat
  - \_\_\_ light beams for door reopening devices
  - check if not included in project
  - \_\_\_ used in combination with door-edge safety devices
  - \_\_\_ interconnected with system of smoke detectors