COMPLIANCE CHECKLIST

IP5 Critical Care Unit

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:

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

Instructions:
1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
2. This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the time of completion of the checklist.
3. Each requirement line (___) of this Checklist must be completed exclusively with one of the following marks, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the mark “E” may be indicated on the requirement line (___) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.

- X = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- E = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. “E” must not be used for an existing required support space associated with a new patient care room or area.
- W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.

4. All room functions marked with “X” must be shown on the plans with the same name labels as in this checklist.
5. Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI Guidelines must be used for project compliance with all MEP requirements and for waiver references.
6. Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
7. Requirements referenced with “FI” result from formal interpretations from the FGI Interpretations Task Group.
8. The location requirements including asterisks (*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

Facility Name:

Facility Address:

Satellite Name: (if applicable)

Satellite Address: (if applicable)

Project Description:

DoN Project Number: (if applicable)

Patient Care Unit Bed Complements:

Current =  Proposed =

Building/Floor Location:

Submission Dates:

Initial Date:  
Revision Date:

MDPH/DHCFLC 12/19 IP5
Architectural Requirements

2.2-2.6

CRITICAL CARE UNIT

2.1-1.2.3

Shared Services:
___ No combined functions unless specifically allowed in this checklist

2.2-2.6.1.2

Location:
(1) critical care unit located in same building as services and/or departments required to provide care to critical care patients (e.g. emergency, respiratory therapy, laboratory, radiology, surgery)
(2) unit be located so that medical emergency resuscitation teams can respond promptly to emergency calls with minimum travel time
(3) location does not permit unrelated traffic of staff, public or other patients through unit (except for emergency egress)

2.2-2.6.2

CRITICAL CARE PATIENT CARE AREAS

2.2-2.6.2.2

Space Requirements:
(1) each patient care station is single-patient room
(2) each patient room has min. clear floor area 200 sf
___ min. headwall width 13'-0"
(3)(a) min. clearance 1'-0" from head of bed to wall
(3)(b) min. clearance 5'-0" from foot of bed to wall
(3)(c) min. clearance 5'-0" on transfer side
(3)(d) min. clearance 4'-0" on non-transfer side
(5) patient room sized to allow for minimum of two seated visitors without interfering with providers’ access to patient & equipment

Ventilation:
___ Min. 6 air changes per hour Table 7.1

Lighting:
___ General lighting 2.1-8.3.4.3(1)
___ Lighting for bed permits staff observation of patient
___ minimizes glare

Power:
___ Min. 16 receptacles in total Table 2.1-1
___ convenient to head of bed with one on each wall

Nurse Call System:
___ Patient station Table 2.1-2
___ Staff assistance station
___ Emergency call station

Medical Gases:
___ 1 OX, 3 VAC, 1 MA per bed Table 2.1-3

2.2-2.6.2.3

Windows In Patient Rooms:
2.1-7.2.2.5(1) each patient room provided with natural light by means of window to outside
2.1-7.2.2.5(3)
(a) minimum net glazed area be no less than 8% of required min. clear floor area of room served
(b) maximum 36 inches windowsill height above finished floor
## Architectural Requirements

<table>
<thead>
<tr>
<th>2.2-2.6.2.4</th>
<th>Patient Privacy:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>___ view panels to corridor with means to allow visual privacy</td>
</tr>
</tbody>
</table>
| (2)         | ___ existing multiple patient care stations in renovation projects  

- **☐** check if not included in project  
- ___ each patient care station has provisions for visual privacy from casual observation by other patients & visitors |

<table>
<thead>
<tr>
<th>2.2-2.6.2.5</th>
<th>Handwashing Stations:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>___ handwashing station provided in each patient room</td>
</tr>
</tbody>
</table>
| (2)         | ___ existing multiple patient care stations in renovation projects  

- **☐** check if not included in project  

(a) at least one handwashing station provided for every 3 patient care stations  

(b) ___ handwashing station located near patient care station |

<table>
<thead>
<tr>
<th>2.2-2.6.6</th>
<th>Toilet Room or Human Waste Disposal Room:</th>
</tr>
</thead>
</table>
| (1)        | ___ enclosed toilet room  

- (a) toilet with bedpan-rinsing device  

- **☐** direct access from patient room  

- or  

- ___ enclosed human waste disposal room  

(b) ___ flushing-rim clinical sink with bedpan-rinsing device  

- **☐** direct access from patient room |

### Building Systems Requirements

<table>
<thead>
<tr>
<th>2.2-2.6.4.4</th>
<th>Ventilation:</th>
</tr>
</thead>
</table>
| (1)          | ___ at least one AII room provided in one critical care unit  

- 2.1-2.4.2.2  

- ___ complies with requirements applicable to patient rooms  

(1) capacity one bed  

(2) ___ personal protective equipment (PPE) storage at entrance to room  

(3) ___ handwashing station  

(4) ___ patient toilet room  

- **☐** serves only one AII room |

- Ventilation:  

- ___ Min. 10 air changes per hour  

- **☐** Exhaust  

- **☐** Negative pressure  

- **☐** No recirculating room units |

### SPECIAL PATIENT CARE AREAS

| 2.2-2.6.4.2 | Airborne infection isolation (AII) room  

- ___ at least one AII room provided in one critical care unit  

- 2.1-2.4.2.2  

- ___ complies with requirements applicable to patient rooms  

(1) capacity one bed  

(2) ___ personal protective equipment (PPE) storage at entrance to room  

(3) ___ handwashing station  

(4) ___ patient toilet room  

- **☐** serves only one AII room |

- Ventilation:  

- ___ Min. 10 air changes per hour  

- **☐** Exhaust  

- **☐** Negative pressure  

- **☐** No recirculating room units |
<table>
<thead>
<tr>
<th><strong>Architectural Requirements</strong></th>
<th><strong>Building Systems Requirements</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.1-2.4.2.3</strong></td>
<td></td>
</tr>
<tr>
<td>Anteroom</td>
<td>Ventilation:</td>
</tr>
<tr>
<td>☐ check if <strong>not</strong> included in project</td>
<td>□ Min. 10 air changes per hour</td>
</tr>
<tr>
<td>(1)</td>
<td>□ Exhaust</td>
</tr>
<tr>
<td>[ ] provides space for persons to don personal protective equipment (PPE) before entering patient room</td>
<td>□ No recirculating room units</td>
</tr>
<tr>
<td>(2)</td>
<td></td>
</tr>
<tr>
<td>all doors to anteroom have self-closing devices or</td>
<td></td>
</tr>
<tr>
<td>[ ] audible alarm activated when AII room is in use as isolation room</td>
<td></td>
</tr>
<tr>
<td>(3)(a)</td>
<td></td>
</tr>
<tr>
<td>[ ] handwashing station</td>
<td></td>
</tr>
<tr>
<td>(3)(b)</td>
<td></td>
</tr>
<tr>
<td>[ ] storage for unused PPE</td>
<td></td>
</tr>
<tr>
<td>(3)(c)</td>
<td></td>
</tr>
<tr>
<td>[ ] disposal/holding container for used PPE</td>
<td></td>
</tr>
</tbody>
</table>

| **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 |
|        | 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)(a) | window treatments do not include fabric drapes & curtains |

| **2.1-2.4.2.5** |                                  |
| room pressure visual or audible alarm |

| **2.1-2.4.2.2** |                                  |
| complies with requirements applicable to patient rooms |
| (1) | capacity one bed |
| (2) | personal protective equipment (PPE) storage at entrance to room |
| (3) | handwashing station |

| **2.2-2.4.4** |                                  |
| protective environment (PE) room | Ventilation: |
| ☐ check if **not** included in project | □ Min. 12 air changes per hour | Table 7.1 |
| (1) | Positive pressure |
| (2) | □ No recirculating room units |
| (3) | □ Supply air diffusers are located above patient bed |
|      | Exhaust grilles or registers located near patient room door | Part 3/7.2.2 |
### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4) Patient toilet room</td>
<td>____ serves only one PE room</td>
</tr>
<tr>
<td>2.1-2.2.6.3</td>
<td>(1) ____ toilet</td>
</tr>
<tr>
<td>(2)</td>
<td>____ handwashing station</td>
</tr>
<tr>
<td>(3)</td>
<td>____ bedpan washer</td>
</tr>
<tr>
<td>2.1-2.4.2.3</td>
<td>____ Anteroom</td>
</tr>
<tr>
<td>☐ check if not included in project</td>
<td>(1) ____ provides space for persons to don personal protective equipment (PPE)</td>
</tr>
<tr>
<td></td>
<td>before entering patient room</td>
</tr>
<tr>
<td>(2)</td>
<td>____ all doors to anteroom have self-closing devices</td>
</tr>
<tr>
<td>or</td>
<td>____ audible alarm activated when PE room is in use as isolation room</td>
</tr>
<tr>
<td>(3)(a)</td>
<td>____ handwashing station</td>
</tr>
<tr>
<td>(3)(b)</td>
<td>____ storage for unused PPE</td>
</tr>
<tr>
<td>(3)(c)</td>
<td>____ disposal/holding container for used PPE</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation:</td>
<td>____ Min. 10 air changes per hour</td>
</tr>
<tr>
<td></td>
<td>____ Exhaust</td>
</tr>
<tr>
<td></td>
<td>____ Negative pressure</td>
</tr>
<tr>
<td></td>
<td>____ No recirculating room units</td>
</tr>
</tbody>
</table>

### Architectural Details & Furnishings:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.4.2.4</td>
<td>(1)(a) ____ perimeter walls ceiling &amp; floor including penetrations constructed</td>
</tr>
<tr>
<td></td>
<td>to prevent air exfiltration</td>
</tr>
<tr>
<td>(1)(b)</td>
<td>____ self-closing devices on all room exit doors</td>
</tr>
<tr>
<td>or</td>
<td>____ activation of audible alarm when PE room is in use as isolation room</td>
</tr>
<tr>
<td></td>
<td>____ edge seals provided along sides &amp; top of doorframe for any door into PE</td>
</tr>
<tr>
<td>(2) (a)</td>
<td>____ window treatments do not include fabric drapes &amp; curtains</td>
</tr>
<tr>
<td>2.1-7.2.3.1(7)(a)</td>
<td>____ floors are monolithic &amp; integral coved wall bases are at least 6” high</td>
</tr>
<tr>
<td></td>
<td>&amp; tightly sealed to wall</td>
</tr>
<tr>
<td>2.1-2.4.2.5</td>
<td>____ room pressure visual or audible alarm</td>
</tr>
</tbody>
</table>

### Special Design Elements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-2.2.4.4(5)</td>
<td>(a) ____ monolithic ceiling</td>
</tr>
<tr>
<td></td>
<td>____ surfaces are cleanable</td>
</tr>
<tr>
<td>(b)</td>
<td>____ lighting fixtures have lenses &amp; are sealed</td>
</tr>
<tr>
<td>2.1-7.2.3.1(7)</td>
<td>____ floors are monolithic &amp; integral coved wall bases are at least 6” high</td>
</tr>
<tr>
<td></td>
<td>&amp; tightly sealed to wall</td>
</tr>
</tbody>
</table>
Architectural Requirements | Building Systems Requirements
---|---
2.2.6.8 SUPPORT AREAS FOR CRITICAL CARE UNIT

### Administrative Center or Nurse Station
- **Space for counters**

### Handwashing Station
- **Handwashing station next to or directly accessible**
- **Hand sanitation dispenser next to or directly accessible**

### Direct or Remote Visual Observation
- **Direct or remote visual observation between nurse station or staffed charting stations & all patient care stations in critical care unit**
- **Observation provides view of patient while patient is in bed**

#### Documentation Areas
- **Documentation areas**
  - **Provided for each patient in or adjacent to patient care station**

#### Information Review Area
- **Information review area located to facilitate concentration**

#### Nurse or Supervisor Office
- **Office space for critical care medical & nursing management/administrative personnel**
- **Immediately accessible** to critical care unit

#### Multipurpose Room
- **At least one multipurpose room for each facility for patient conferences, reports, education, training sessions & consultation (may serve several patient care units & departments)**

#### Medication Safety Zones
- **Design Promoting Safe Medication Use:**
  - Medication safety zones located out of circulation paths
  - Work space designed so that staff can access information & perform required tasks
  - Work counters provide space to perform required tasks
  - Sharps containers placed at height that allows users to see top of container
  - Max. 45 dBA noise level caused by building systems

#### Nurse Call System
- **Duty station (light/sound signal)**

#### Lighting
- **Task-specific lighting level**
  - Min. 100 foot-candles

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**MDPH/DHCFICL**

12/19 IP5
Architectural Requirements

2.1-2.8.8.2(1)

(a) __ medication preparation room
   (b) __ under visual control of nursing staff
       __ work counter
       __ handwashing station
       __ lockable refrigerator
       __ locked storage for controlled drugs
       __ sharps containers
       □ check if not included in project

(c) __ self-contained
    medication-dispensing unit
    □ check if not included in project
    __ room designed with space to prepare medications

or

2.1-2.8.8.2(2)

(a) __ automated medication-dispensing unit
    __ located at nurse station, in clean workroom or in alcove
    (c) __ handwashing station located next to stationary medication-dispensing units or stations

Building Systems Requirements

Ventilation:

2.1-2.8.8.1(2)(d)

Lighting:

Table 2.1-2

Nurse Call System:

2.1-2.8.8.1(2)(d)

Table 2.1-2

Nourishment area or room

2.2-2.6.8.9

2.1-2.8.9.2

(1) __ handwashing station
(2) __ work counter
(3) __ refrigerator
(4) __ microwave
(5) __ storage cabinets
(6) __ space for temporary storage of food service implements

2.1-2.8.9.3

__ provisions & space are included for separate temporary storage of unused & soiled meal trays

Ice-making equipment

2.2-2.6.8.10

2.1-2.8.9.2

(1) __ provides ice for treatment & nourishment
2.2.6.8.11  Clean workroom or clean supply room  
(2)  
  ___ located within critical care unit  
  or  
  ___ shared with another critical care unit  
      ___ accessible from critical care unit  
          without travel through public  
          corridor  

2.1.8.11.2  
___ clean workroom  
(1)  
  ___ used for preparing patient care  
  items  
  (2)  
  ___ work counter  
  (3)  
  ___ handwashing station  
  ___ storage facilities for clean &  
      sterile supplies  
  or  

2.1.8.11.3  
___ clean supply room  
(1)  
  ___ used only for storage & holding as  
  part of system for distribution of  
  clean & sterile supplies  

2.2.6.8.12  Soiled workroom or soiled holding room  
(2)  
  ___ located within critical care unit  
  or  
  ___ shared with another critical care unit  
      ___ accessible from critical care unit  
          without travel through public  
          corridor  

2.1.8.12.2  ___ soiled workroom  
(1)(a)  
  ___ handwashing station  
  (1)(b)  
  ___ flushing-rim clinical service sink  
      with bedpan-rinsing device or  
      equivalent flushing-rim fixture  
  (1)(c)  
  ___ work counter  
  (1)(d)  
  ___ space for separate covered  
      containers for waste & soiled  
      linen  
(2)  
  ___ fluid management system is used  
      ☐ check if not included in project  
      (a)  
      ___ electrical & plumbing  
          connections that meet  
          manufacturer requirements  
      (b)  
      ___ space for docking station  
  or  

2.1.8.12.3  ___ soiled holding room  
(1)  
  ___ handwashing station or hand  
      sanitation station  
(2)  
  ___ space for separate covered  
      containers for waste & soiled linen  

Architectural Requirements  
Building Systems Requirements  
Ventilation:  
___ Min. 4 air changes per hour  
Table 7.1  
___ Positive pressure  
Nurse Call System:  
___ Duty station (light/sound  
      signal)  
Table 2.1-2  
Ventilation:  
___ Min. 4 air changes per hour  
Table 7.1  
___ Positive pressure  
Ventilation:  
___ Min. 10 air changes per hour  
Table 7.1  
___ Exhaust  
___ Negative pressure  
___ No recirculating room units  
Nurse Call System:  
___ Duty station (light/sound  
      signal)  
Table 2.1-2  
Ventilation:  
___ Min. 10 air changes per hour  
Table 7.1  
___ Exhaust  
___ Negative pressure  
___ No recirculating room units
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-2.6.8.13(1)</td>
<td></td>
</tr>
<tr>
<td>(b) Clean linen storage</td>
<td></td>
</tr>
<tr>
<td>____ located within critical care unit</td>
<td>Ventilation:</td>
</tr>
<tr>
<td>or</td>
<td>____ Min. 10 air changes per hour</td>
</tr>
<tr>
<td>____ shared with another critical care unit</td>
<td>Table 7.1</td>
</tr>
<tr>
<td>2.1-2.8.13.1</td>
<td></td>
</tr>
<tr>
<td>(1) stored in clean workroom</td>
<td>____ Exhaust</td>
</tr>
<tr>
<td>or</td>
<td>____ Negative pressure</td>
</tr>
<tr>
<td>or</td>
<td>____ No recirculating room units</td>
</tr>
<tr>
<td>____ covered cart distribution system on each floor</td>
<td></td>
</tr>
<tr>
<td>2.2-2.6.8.13(2)</td>
<td></td>
</tr>
<tr>
<td>(2) storage of clean linen carts in designated corridor alcoves, clean workroom or closets</td>
<td></td>
</tr>
<tr>
<td>2.2-2.6.8.14</td>
<td></td>
</tr>
<tr>
<td>(3) Wheelchair &amp; gurney storage</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.14.4</td>
<td></td>
</tr>
<tr>
<td>(4) Emergency equipment storage</td>
<td></td>
</tr>
<tr>
<td>2.2-2.6.8.14</td>
<td></td>
</tr>
<tr>
<td>(1) each patient care unit has at least one emergency equipment storage location</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.14.1</td>
<td></td>
</tr>
<tr>
<td>(2) provided under visual observation of staff</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.14.2</td>
<td></td>
</tr>
<tr>
<td>(3) storage locations in corridors do not encroach on minimum required corridor width</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.14.2</td>
<td></td>
</tr>
<tr>
<td>(1) service sink or floor-mounted mop sink</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.14.2</td>
<td></td>
</tr>
<tr>
<td>(2) provisions for storage of supplies &amp; housekeeping equipment</td>
<td>____ Handwashing station</td>
</tr>
<tr>
<td>(3) handwashing station</td>
<td>____ Hand sanitation station</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
</tbody>
</table>
### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-2.6.8.15</td>
<td>Examination room</td>
</tr>
<tr>
<td>2.1-2.1.2</td>
<td>Patient Privacy: provisions are made to address patient visual &amp; speech privacy</td>
</tr>
<tr>
<td>2.1-3.2.2.1</td>
<td>Space Requirements:</td>
</tr>
<tr>
<td>(1)</td>
<td>min. clear floor area 120 sf</td>
</tr>
<tr>
<td>(2)(a)</td>
<td>min. clear dimension 10'-0&quot;</td>
</tr>
<tr>
<td>(2)(b)</td>
<td>room arrangement with min. clearance 3'-0&quot; at each side &amp; at foot of exam table</td>
</tr>
<tr>
<td></td>
<td>room arrangement (layout #1) shown in the plans</td>
</tr>
<tr>
<td></td>
<td>exam table, recliner or chair is placed at angle closer to one wall than another or against wall to accommodate type of patient being served</td>
</tr>
<tr>
<td></td>
<td>room arrangement (layout #2) shown in the plans</td>
</tr>
<tr>
<td>2.2-2.6.8.16</td>
<td>Patient-monitoring equipment</td>
</tr>
<tr>
<td>(1)</td>
<td>each unit contains equipment for physiological monitoring with visual displays for each patient at bedside &amp; at nurse station or centralized monitoring area</td>
</tr>
<tr>
<td>(2)</td>
<td>monitors located to permit easy viewing</td>
</tr>
<tr>
<td></td>
<td>monitors do not interfere with access to patient</td>
</tr>
<tr>
<td>2.2-2.6.8.17</td>
<td>Image-viewing capability unit (may serve more than one critical care unit)</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation</td>
<td>Min. 6 air changes per hour Table 7.1</td>
</tr>
<tr>
<td>Lighting</td>
<td>Portable or fixed exam light 2.1-8.3.4.3(3)</td>
</tr>
<tr>
<td>Power</td>
<td>Min. 8 receptacles in total Table 2.1-1</td>
</tr>
<tr>
<td></td>
<td>Min. 4 receptacles convenient to head of gurney or bed</td>
</tr>
<tr>
<td>Nurse Call System</td>
<td>Staff assistance station Table 2.1-2</td>
</tr>
<tr>
<td></td>
<td>Emergency call station</td>
</tr>
<tr>
<td>2.2-2.6.9</td>
<td>Support Areas for Staff</td>
</tr>
<tr>
<td>2.2-2.6.9.1</td>
<td>Staff lounge</td>
</tr>
<tr>
<td>(1)</td>
<td>min.100 sf</td>
</tr>
<tr>
<td>(2)</td>
<td>located in or adjacent* to critical care unit (may serve adjacent* critical care units)</td>
</tr>
<tr>
<td>(3)</td>
<td>telephone or intercom &amp; emergency call station connections to critical care unit it serves</td>
</tr>
<tr>
<td>(4)</td>
<td>equipment &amp; space for seating</td>
</tr>
</tbody>
</table>
Architectural Requirements

2.2-2.6.9.2  ____ Staff toilet rooms (permitted to be unisex)

____ readily accessible* to staff lounge

2.1-2.9.2.1  ____ readily accessible* to each patient care unit

2.1-2.9.2.2  ____ toilet & handwashing station

2.2-2.6.9.3  ____ Staff storage facilities

2.1-2.9.3.1  ____ securable closets or cabinet compartments for personal articles of staff

____ located in or near nurse station

2.2-2.6.9.4  ____ On-call staff accommodation

(1)  ____ accommodations for sleeping & rest

(a)  ____ space for chair

(b)  ____ space for bed

(2)  ____ individually secured storage for personal items

(3)  ____ communication system

(4)  ____ at least one toilet, shower & handwashing station

Ventilation:

____ Min. 10 air changes per hour  Table 7.1

____ Exhaust

____ Negative pressure

____ No recirculating room units

Support Areas for Families & Visitors

2.2-2.6.10

2.1-2.10.1  ____ Family & visitor lounge

____ each patient care unit provides access to lounge for family & visitors

2.1-2.10.1.1

(1)  ____ accommodates at least 3 chairs & 1 wheelchair space

(2)  ____ accommodates at least 1.5 persons for every adult critical care bed

2.1-2.10.1.2  ____ immediately accessible* to patient care units served (permitted to serve more than one patient care unit)

2.1-2.10.1.4  ____ designed to minimize impact of noise & activity on patient rooms & staff functions

Communications:

____ Public communication services provided in each family & visitor lounge

2.1-2.10.1.6

*LOCATION TERMINOLOGY:

Directly accessible: Connected to the identified area or room through a doorway, pass-through, or other opening without going through an intervening room or public space

Adjacent: Located next to but not necessarily connected to the identified area or room

Immediately accessible: Available either in or adjacent to the identified area or room

Readily accessible: Available on the same floor or in the same clinic as the identified area or room
2.1-7.2.2 ARCHITECTURAL DETAILS

2.1-7.2.2.1 CORRIDOR WIDTH:
- Aisles, corridors & ramps required for exit access in a hospital not less than 8'-0" in clear & unobstructed width
- Detailed code review incorporated in Project Narrative

2.1-7.2.2.2 ARCHITECTURAL DETAILS

2.1-7.2.2.2.1 NFPA 101, 18.2.3.4
- Aisle, corridors & ramps in areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width
- Detailed code review incorporated in Project Narrative

2.1-7.2.2.3 CEILING HEIGHT:
- Min ceiling height 7'-6" in corridors & in normally unoccupied spaces
- Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path for patients in beds & on stretchers
- Min. ceiling height 7'-10" in other areas

2.1-7.2.2.4 DOORS & DOOR HARDWARE:
- Door Type:
  - doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
  - sliding doors
- Door Opening:
  - min. 45.5" clear door width for patient rooms
  - min. 83.5" clear door height for patient rooms
  - swinging doors for personnel use in addition to sliding doors
- Door Swing:
  - doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware

2.1-7.2.2.5 WINDOWS IN PATIENT ROOMS:
- Each patient room provided with natural light by means of window to outside
- Operable windows in patient rooms or suites
  - window operation is limited with either stop limit/restrictor hardware or open guard/screen
  - prevents passage of 4-inch diameter sphere through opening
- Basements: insect screens
- Window Size In Patient Rooms:
  - minimum net glazed area be no less than 8% of required min. clear floor area of room served
  - maximum 36 inches windowsill height above finished floor

2.1-7.2.2.6 GLAZING MATERIALS:
- Glazing within 1 foot 6 inches of floor
  - must be safety glass, wire glass or plastic break-resistant material
2.1-7.2.2.8 HANDWASHING STATIONS:
(1)(c) Handwashing stations in patient care areas located so they are visible & unobstructed
(3)
(a) Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
(b) Countertops substrate
☐ check if not included in project
☐ marine-grade plywood (or equivalent material) with impervious seal
(4) Handwashing station casework
☐ check if not included in project
☐ designed to prevent storage beneath sink
(5) Provisions for drying hands
(a) hand-drying device does not require hands to contact dispenser
(b) hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing
(6) Liquid or foam soap dispensers

2.1-7.2.2.9 GRAB BARS:
(1) Grab bars anchored to sustain concentrated load 250 pounds
(2) Grab bars in toilet rooms used by patients of size anchored to sustain concentrated load 800 pounds
(3) Ends of grab bars constructed to prevent snagging clothes of patients, staff & visitors

2.1-7.2.10 HANDRAILS:
(1) Handrails installed on both sides of patient use corridors
(3) Rail ends return to wall or floor
(4) Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius
(5) Handrails have eased edges & corners
(6) Handrail finishes are cleanable

2.1-7.2.12 NOISE CONTROL:
(1) Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be generated are not located directly over patient bed areas
or
☐ Special provisions are made to minimize impact noise
(2) Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas

2.1-7.2.14 DECORATIVE WATER FEATURES:
(1) No indoor unsealed water features
(2) Covered fish tanks
☐ check if not included in project
☐ restricted to public areas

2.1-7.2.3 SURFACES
2.1-7.2.3.1 FLOORING & WALL BASES:
(1) Flooring surfaces cleanable & wear-resistant for location
(3) Smooth transitions provided between different flooring materials
(4) Flooring surfaces including those on stairways are stable, firm & slip-resistant
(5) Floors & wall bases of soiled workrooms, toilet rooms & other areas subject to frequent wet cleaning are constructed of materials that are not physically affected by germicidal or other types of cleaning solutions

2.1-7.2.3.2 WALLS & WALL PROTECTION:
(1)(a) Wall finishes are washable
(1)(b) Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant
(2) Wall surfaces in areas routinely subjected to wet spray or splatter (e.g. environmental services rooms) are monolithic or have sealed seams that are tight & smooth
(5) Wall protection devices & corner guards durable & scrubbable
2.1-7.2.3.3 CEILINGS:
(1) Ceilings provided in all areas except mechanical, electrical & communications equipment rooms
(a) Ceilings cleanable with routine housekeeping equipment
(b) Acoustic & lay-in ceilings where used do not create ledges or crevices

2.1-7.2.4 FURNISHINGS:
2.1-7.2.4.1 Built-In Furnishings:
☐ check if not included in project
☐ upholstered with impervious materials in patient treatment areas

2.1-7.2.4.2 Window Treatments in Patient Rooms & Other Patient Care Areas:
(1) blinds, sheers or other patient-controlled window treatments provided to allow for patient privacy & to control light levels & glare
(2) window treatments do not compromise patient safety
☐ easy for patients, visitors & staff to operate
(3) window treatments selected for ease of cleaning, disinfection or sanitation

Privacy curtains in patient rooms & other patient care areas are washable
☐ check if not included in project

2.1-8.2 HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS
Part 3/6.1 UTILITIES:
Part 3/6.1.1 Ventilation Upon Loss of Electrical Power:
☐ space ventilation & pressure relationship requirements of Tables 7.1 are maintained for All Rooms, PE Rooms in event of loss of normal electrical power

Part 3/6.1.2 Heating & Cooling Sources:
Part 3/6.1.2.1 heat sources & essential accessories are provided in number & arrangement sufficient to accommodate facility needs (reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance
☐ capacity of remaining source or sources is sufficient to provide for domestic hot water & heating for intensive care rooms

Central cooling systems greater than 400 tons (1407 kW) peak cooling load
☐ check if not included in project
☐ number & arrangement of cooling sources & essential accessories is sufficient to support facility operation plan upon breakdown or routine maintenance of any one of cooling sources

Part 3/6.2 AIR-HANDLING UNIT (AHU) DESIGN:
Part 3/6.2.1 AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance

Part 3/6.3 OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:
Part 3/6.3.1 Outdoor Air Intakes:
Part 3/6.3.1.1 located min. of 25 ft 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

Intakes on top of buildings
☐ check if not included in project
☐ located with bottom of air intake min. 3'-0" above roof level
Part 3/6.3.1.4       intake in areaway  ☐ check if not included in project  ____ bottom of areaway air  intake opening is at least 6'-0" above grade  ____ bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway

Part 3/6.3.2  Exhaust Discharges for Infectious Exhaust Air:  ☐ check if not included in project  ____ 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

Part 3/6.3.2.1  ____ exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level  ____ exhaust discharge outlets from AII rooms is located not less than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public

Part 3/6.4  FILTRATION:  ____ Two filter banks for inpatient care (see Table 6.4)  ____ Filter Bank No. 1: MERV 7  ____ Filter Bank No. 2: MERV 14  ____ 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 3/6.5  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 & burn unit

Part 3/6.5.3  ____ 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 & burn unit

Part 3/6.7  AIR DISTRIBUTION SYSTEMS:  ____ pressure relationships required in tables 7.1 maintained in all modes of HVAC system operation  ____ Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems  ____ Inpatient facilities are served by fully ducted return or exhaust systems

Part 3/6.7.1  ____ pressure relationships required in tables 7.1 maintained in all modes of HVAC system operation  ____ Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems  ____ Inpatient facilities are served by fully ducted return or exhaust systems

Part 3/6.7.2  Air Distribution Devices:  ____ supply air outlets comply with Table 6.7.2

Part 3/6.7.3  Smoke Barriers:  ____ HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.

Part 3/6.8  ENERGY RECOVERY SYSTEMS:  ☐ check if not 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

Part 3/6.8.1  ____ Located upstream of Filter Bank No. 2  ____ AII room exhaust systems or combination AII/PE rooms are not used for energy recovery

Part 3/6.8.2  ____ AII room exhaust systems or combination AII/PE rooms are not used for energy recovery

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

Part 3/7  SPACE VENTILATION  ____ Spaces ventilated according to Table 7.1

Part 3/7.1.a  ____ Spaces ventilated according to Table 7.1

Part 3/7.1.a.1  ____ Air movement is from clean to less-clean areas
Part 3/7.1.a.3  Min. number of total air changes required for positive pressure rooms is provided by total supply airflow
Min. number of total air changes required for negative pressure rooms is provided by total exhaust airflow

Part 3/7.1a.5  Air recirculation through room unit
☐ check if not included in project

Part 3/7.2  ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:

Part 3/7.2.1  Airborne Infection Isolation (AI) Rooms
☐ check if not included in project

Part 3/7.2.2  Protective Environment (PE) Rooms
☐ check if not included in project

Part 3/7.2.3  Combination Airborne Infectious Isolation/Protective Environment Room (AI/PE)
☐ check if not included in project

2.1-8.3  ELECTRICAL SYSTEMS

2.1-8.3.2  Panelboards:
(1)  panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
(2)  panelboard critical branch circuits serve floors on which they are located
(3)  panelboards not located in exit enclosures or exit passageways

2.1-8.3.3  Ground-Fault Circuit Interrupters in Critical Care Areas:
☐ check if not included in project

2.1-8.3.3.1  Essential electrical system or
### Compliance Checklist: Critical Care Unit

**Emergency Electrical Power**

- **essential electrical system**
- **emergency electrical power**

**Luminaire in Wet Areas**

- Smooth, cleanable, shatter-resistant lenses & no exposed lamps

**Reading Light for Each Patient Bed**

- Incandescent & halogen light
- Light source covered by diffuser or lens
- Flexible light arms

**Patient Care Unit Corridors**

- General illumination with provisions for reducing light levels at night

**Handwashing Sinks & Scrub Sinks**

- That depends on building electrical service for operation are connected to essential electrical system

**Duplex-Grounded Receptacles**

- For general use installed 50'-0" apart or less in all corridors
- For general use installed within 25'-0" of corridor ends

**Receptacles in Pediatric & Psychiatric Unit Corridors**

- Are of tamper-resistant type

**Cover Plates for Electrical Receptacles**

- Supplied from essential electrical system are distinctively colored or marked for identification

**Same Color for Electrical Receptacles**

- Used throughout facility

### 2.1-8.4 PLUMBING SYSTEMS

### 2.1-8.4.2 Plumbing & Other Piping Systems:

- No plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problems

### 2.1-8.4.2.2 Hemodialysis/Hemoperfusion Water Distribution:

- Separate treated water distribution system
- Outlet at each individual hemodialysis treatment bay
- Outlet at hemodialysis equipment repair area
- Outlet at dialysate preparation area

- Dialysis equipment includes sufficient water treatment provisions for use of domestic cold water

### 2.1-8.4.2.5 Heated Potable Water Distribution Systems:

- Heated potable water distribution systems serving patient care areas are under constant recirculation non-recirculated fixture branch piping max. length 25'-0"

- No installation of dead-end piping (except for empty risers mains & branches for future use)

- Any existing dead-end piping is removed

- Water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4
<table>
<thead>
<tr>
<th>Section</th>
<th>Compliance Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-8.4.2.6 Drainage Systems:</td>
<td>(1)(a)</td>
<td>drainage piping installed above ceiling of or exposed in electronic data processing areas &amp; electric closets □ check if not included in project&lt;br&gt;☐ special provisions to protect space below from leakage &amp; condensation</td>
</tr>
<tr>
<td></td>
<td>(1)(b)</td>
<td>drip pan for drainage piping above ceiling of sensitive area □ check if not included in project&lt;br&gt;☐ accessible&lt;br&gt;☐ overflow drain with outlet located in normally occupied area</td>
</tr>
<tr>
<td>2.1-8.4.3 PLUMBING FIXTURES:</td>
<td>2.1-8.4.3.1(1)</td>
<td>Materials used for plumbing fixtures are non-absorptive &amp; acid-resistant</td>
</tr>
<tr>
<td></td>
<td>2.1-8.4.3.2 Handwashing Station Sinks:</td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3)</td>
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<td>(5)</td>
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<td>(7)</td>
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<tr>
<td></td>
<td></td>
<td>(a)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(b)</td>
</tr>
<tr>
<td>2.1-8.4.3.4 Ice-Making Equipment:</td>
<td></td>
<td>copper tubing provided for supply connections to ice-making equipment</td>
</tr>
<tr>
<td>2.1-8.4.3.5 Clinical Flushing-Rim Sinks:</td>
<td></td>
<td>□ check if not included in project&lt;br&gt;(1) trimmed with valves that can are operated without hands (may be single-lever or wrist blade devices)&lt;br&gt;(a) □ handles are at least 6 in. long&lt;br&gt;(b) □ integral trap wherein upper portion of water trap provides visible seal</td>
</tr>
<tr>
<td>2.1-8.4.3.7 Bedpan-Rinsing Devices:</td>
<td></td>
<td>□ bedpan-rinsing devices provided in each inpatient toilet room&lt;br&gt;(2) □ use cold water only</td>
</tr>
<tr>
<td>2.1-8.5.1 MEDICAL GAS &amp; VACUUM SYSTEMS</td>
<td></td>
<td>Station outlets provided as indicated in Table 2.1-3</td>
</tr>
<tr>
<td>2.1-8.5.1.1 CALL SYSTEMS</td>
<td></td>
<td>□ Nurse call stations provided as required in Table 2.1-2&lt;br&gt;(2) □ Nurse call systems report to attended location with electronically supervised visual &amp; audible annunciation as indicated in Table 2.1-2&lt;br&gt;(4) □ Call system complies with UL 1069 “Standard for Hospital Signaling &amp; Nurse Call Equipment”&lt;br&gt;(5) □ Wireless nurse call system □ check if not included in project complies with UL 1069</td>
</tr>
<tr>
<td>2.1-8.5.1.2 Patient Call Stations:</td>
<td></td>
<td>each patient sleeping bed except nursery beds provided with patient call station equipped for two-way voice communication (use of dual call station are permitted when beds are located adjacent to each other)</td>
</tr>
</tbody>
</table>
| | | (2)(a) □ indicator light that remains lighted as long as voice circuit is operating<br>(2)(b) □ reset switch for canceling call<br>(3)(a) □ visible signal in corridor at patient’s door Multi-Corridor Patient Areas: □ check if not included in project additional visible signals at corridor intersections
2.1-8.5.1.3 **Bath Stations:**

- Bath station that can be activated by patient lying on floor provided at each patient toilet, bathtub, sitz bath or shower stall.
- Alarm in these areas can only be turned off at bath station where it was initiated.
- Shower/tub bath stations located 3'-0" to 4'-0" above floor within view of user & within reach of staff without need to step into shower or tub.
- Toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor.

2.1-8.5.1.5 **Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call**

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2.1-8.6.2 **ELECTRONIC SURVEILLANCE SYSTEMS**

- Check if not included in project

2.1-8.6.2.2 Monitoring devices are located so they are not readily observable by general public or patients.

2.1-8.6.2.3 Electronic surveillance systems receive power from essential electrical system.