COMPLIANCE CHECKLIST

OP14 Renal Dialysis Centers

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 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:

- 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) __________________________

Building/Floor Location: __________________________

Submission Dates: __________________________

Initial Date: __________________________

Revision Date: __________________________

MDPH/DHCFLC 12/19 OP14
<table>
<thead>
<tr>
<th>Architecture Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.10</strong></td>
<td></td>
</tr>
<tr>
<td><strong>2.10-1.1</strong></td>
<td></td>
</tr>
<tr>
<td>Application:</td>
<td></td>
</tr>
<tr>
<td>2.10-1.1.1</td>
<td>renal dialysis centers that treat patients with chronic renal disease</td>
</tr>
<tr>
<td><strong>145.200</strong></td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td></td>
</tr>
<tr>
<td>☐ dialysis area is separate from other patient care &amp; administrative activities</td>
<td></td>
</tr>
<tr>
<td>☐ dialysis area not located in area that provides access to such other areas</td>
<td></td>
</tr>
<tr>
<td><strong>2.10-2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ACCOMMODATIONS FOR CARE OF PATIENTS OF SIZE</strong></td>
<td></td>
</tr>
<tr>
<td>2.1-2.1.1.2</td>
<td>☐ check if not included in project (only if a Patient Handling &amp; Movement Assessment that determines that the outpatient service does not have a need for expanded-capacity lifts &amp; architectural details that support movement of patients of size in patient areas is attached to the Project Narrative)</td>
</tr>
<tr>
<td>2.1-2.1.2</td>
<td>Location:</td>
</tr>
<tr>
<td>☐ spaces designated for care of or use by patients of size are provided in locations to accommodate population expected to be served by facility</td>
<td></td>
</tr>
<tr>
<td>2.1-2.5</td>
<td>☐ Handwashing stations</td>
</tr>
<tr>
<td>2.1-2.5.2</td>
<td>☐ downward static force required for handwashing stations designated for patients of size accommodates maximum patient weight of patient population</td>
</tr>
<tr>
<td>2.1-2.6</td>
<td>☐ Patient toilet room</td>
</tr>
<tr>
<td>2.1-2.6.1</td>
<td>☐ expanded-capacity toilet</td>
</tr>
<tr>
<td>☐ mounted min. 36 inches from finished wall to centerline of toilet on both sides (for caregiver assistance with lifts)</td>
<td></td>
</tr>
<tr>
<td>☐ or</td>
<td>Ventilation:</td>
</tr>
<tr>
<td>☐ regular toilet</td>
<td>☐ Min. 10 air changes per hour</td>
</tr>
<tr>
<td>☐ mounted min. 44 inches from centerline of toilet on both sides to finished walls to allow for positioning of expanded-capacity commode over toilet</td>
<td></td>
</tr>
<tr>
<td>2.1-2.6.2</td>
<td>☐ Emergency call station</td>
</tr>
<tr>
<td>2.1-2.6.3</td>
<td>☐ rectangular clear floor area min. 46” wide extends 72” from front of toilet</td>
</tr>
</tbody>
</table>

Table 8.1

Table 2.1-3
Architectural Requirements

2.1-2.7  ____ Single-patient examination room

2.1-2.7.1  Space Requirements:

(2)  ____ min. 5'-0" clearance at foot of expanded-capacity exam table

(3)(a)  ____ min. 5'-0" on transfer side of expanded-capacity exam table with ceiling- or wall-mounted lift

or

(3)(b)  ____ min. 7'-0" on transfer side of expanded-capacity exam table in rooms without ceiling- or wall-mounted lift

2.1-2.8  ____ Equipment & supply storage

2.1-2.9  ____ Waiting areas

2.1-2.9.1  ____ seating for persons of size be provided in waiting areas in outpatient facilities

2.1-2.9.2  ____ waiting areas be sized to accommodate expanded-capacity furniture required for patients & visitors of size

2.1-2.10.1  ____ All plumbing fixtures, handrails, grab bars, patient lift, equipment, built-in furniture & other furnishings designed to accommodate maximum patient weight

2.1-2.10.2  Door Openings:

2.1-2.10.2.1  ____ door openings used for path of travel to public areas & areas for care of patients of size have min. clear width of 45.5"

2.1-2.10.2.2  ____ door openings to toilet rooms designated for patients of size have min. clear width of 45.5"

2.10-3  ____ Examination room

☐ check if not included in project

Space Requirements:

(2)(a)  ____ min. clear floor area 80 sf

____ room size allows min. clearance 2'-8" at each side & at foot of exam table or recliner

____ room arrangement shown in the plans for each exam room (Layout #1)

(3)  Exam Room Features:

(a)  ____ portable or fixed exam light

(b)  ____ storage for supplies

(c)  ____ accommodations for written or electronic documentation

(d)  ____ space for visitor’s chair

(e)  ____ handwashing station

Building Systems Requirements

Ventilation:

____ Min. 4 air changes per hour  Table 8.1

Lighting:

____ Portable or fixed exam light  2.1-8.3.4.3(1)

Power:

____ Min. 8 receptacles  Table 2.1-1

____ 4 convenient to head of exam table or gurney

PATIENT CARE & DIAGNOSTIC AREAS

2.10-3.1  ____ Examination room
## Architectural Requirements

### Hemodialysis Treatment Area:

2.10-3.2.1.2  Treatment area separate from administrative & waiting areas

2.10-3.2.1.3  No built-in cabinetry in individual hemodialysis patient care stations

2.10-3.2.2  Hemodialysis patient care stations

### Space Requirements:

- **Individual patient care stations with dialysis chairs**
  - Check if not included in project
  - Min. clear floor area 80 sf
  - Min. clearance 4'-0" between sides of dialysis chairs

- **Individual patient care stations with gurneys**
  - Check if not included in project
  - Min. clear floor area 90 sf
  - Min. clearance 4'-0" between sides of gurneys

### Ventilation:

- Min. 6 air changes per hour

### Lighting:

- Connected to emergency power
  - 145.291(C)(1)(b)

### Power:

- Min. 8 receptacles

### 145.210  Space Between Dialysis Stations:

- Sufficient for equipment & patient care
- Sufficient to prevent cross contamination
- Accommodates medical emergency equipment & staff access to patient by at least two persons

### Patient Privacy:

- Space available to accommodate provisions for patient privacy (including privacy curtains or privacy screens)

## Building Systems Requirements

### Ventilation:

- Min. 6 air changes per hour

### Lighting:

- Connected to emergency power
  - 145.291(C)(1)(b)

### Power:

- Min. 8 receptacles
Architectural Requirements

2.10-3.2.5 Handwashing Stations:

2.1-3.8.7.1 ___ located in each room where hands-on patient care is provided

2.1-3.8.7.3 ___ handwashing station serves multiple patient care stations

☐ check if not included in project

☐ at least one handwashing station provided for every four patient care stations or fewer & for each major fraction thereof

☐ evenly distributed based on arrangement of patient care stations

2.10-3.2.5.2 ___ one of these handwashing stations located at entry to hemodialysis treatment area

2.10-3.3 ___ Home training room

☐ check if not included in project (only if clinic has affiliation agreement with hospital or out-of-hospital dialysis unit for provision of home dialysis training program)

145.340

2.10-3.3.1 ___ private treatment room of at least 120 sf counter

2.10-3.3.2.1 ___ handwashing station

2.10-3.3.2.2 ___ separate drain for fluid disposal

2.10-3.3.2.3 ___ Ventilation:

Min. 6 air changes per hour Table 8.1

Lighting: 145.291(C)(1)

Power:

Min. 4 receptacles on each side of a patient bed or lounge chair

2 on each side of the bed connected to emergency power

2.10-3.4.1 ___ Airborne infection isolation (AII) room

Application:

☐ for patients who are Hepatitis B surface antigen-positive or for airborne infection isolation

Space Requirements:

☐ min. clear floor area 120 sf

2.10-3.4.1.2 ___ Ventilation:

Min. 12 air changes per hour Table 8.1

Exhaust

Negative pressure

No recirculating room units

Exhaust register located directly above patient bed on ceiling or on wall near head of bed Part 3/7.2.1

2.10-3.4.1.3 ___ AII room allows for direct observation of patient by staff during treatment

2.10-3.4.1.1 ___ Capacity:

☐ each AII room accommodates only one patient

2.1-3.3.2.2(1) ___ handwashing station

2.1-3.3.2.2(2) ___ personal protective equipment (PPE) storage

☐ located at room entrance

2.1-3.3.2.2(3) ___ Power:

Min. 8 receptacles Table 2.1-1

4 on each side of a patient bed or lounge chair

2 on each side of the bed connected to emergency power

Part 3/7.2.1
### 2.1-3.3.2.3 Architectural Requirements

**Anteroom**

☐ check if not included in project

(1) an anteroom provides space for persons to don PPE before entering AII room

(2) all doors to anteroom have self-closing devices

(3)(a) handwashing station

(3)(b) storage for unused PPE

(3)(c) disposal/holding container for used PPE

### 2.1-3.3.2.4 Architectural Details & Furnishings:

(1)(a) perimeter walls ceiling & floor including penetrations are constructed to prevent air exfiltration

(1)(b) self-closing devices on all room exit doors

or

activation of audible alarm when AII room used 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

### 2.1-3.3.2.5 Room Pressure

visual or audible alarm

### 2.10-3.8 Support Areas for Renal Dialysis Center:

**Nurse station**

designed to provide visual observation of all dialysis patient care stations

**Lighting:**

connected to emergency power 145.291(C)(1) (b)

**Work counter**

**Means for facilitating staff communication**

**Space for supplies**

**Accommodations for written or electronic documentation**

**Hand sanitation dispenser**

**Medication safety zone**

dedicated medication safety zone centrally located in dialysis center located at least 6'-0” from any individual gurney/dialysis chair

### Design Promotes Safe Medication Use:

(a) medication safety zones located out of circulation paths
### Architectural Requirements

(b) Work space designed so that staff can access information & perform required tasks

(c) Work counters provide space to perform required tasks

(e) Sharps containers placed at height that allows users to see top of container

2.1-3.8.8.2(1)
(a) Medication preparation room
   - Work counter
   - Handwashing station
   - Lockable refrigerator
   - Locked storage for controlled drugs
   - Sharps containers
   - [ ] check if not included in project

(b) Self-contained medication dispensing units
   - [ ] check if not included in project
   - Room designed with space to prepare medications

or

2.1-3.8.8.2(2)
(a) Automated medication-dispensing unit
   - Located at nurse station, in clean workroom or in alcove

(b) Handwashing station or hand sanitation dispenser provided next to stationary medication-dispensing units

(c) Countertop or cart provided adjacent* to stationary medication-dispensing units

2.10-3.8.9
Nourishment area
   [ ] check if not included in project

2.1-3.8.9.1
Handwashing station in or directly accessible*

2.1-3.8.9.2
Work counter

2.1-3.8.9.3
Storage

2.1-3.8.9.4
Fixtures & appliances for beverages & nourishment

2.10-3.8.11
Clean workroom or clean supply room

2.10-3.8.11.1
Separate from & have no direct connection with soiled workrooms or soiled holding rooms

2.1-3.8.11.2
Clean workroom

   (1) Work counter

   (2) Handwashing station

   (3) Storage facilities for clean & sterile supplies

### Building Systems Requirements

**Lighting:**

- Task-specific lighting level min. 100 foot-candles
  
2.1-3.8.8.1(d)

Ventilation:

- Min. 4 air changes per hour
  
Table 8.1

**Lighting:**

- Connected to emergency power
  
145.291(C)(1)(b)

- Task lighting
  
2.1-3.8.8.1(d)

**Ventilation:**

- Min. 2 air changes per hour
  
Table 8.1

**Ventilation:**

- Min. 4 air changes per hour
  
Positive pressure
  
Table 8.1
### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
</table>
| 2.1-3.8.11.3 | clean supply room
| | used only for storage & holding as part of system for distribution of clean & sterile materials |
| 2.1-3.8.12.2 | Soiled workroom |
| 145.230(G) | does not have direct connection with clean workrooms or clean supply rooms |
| 2.1-3.8.12.1 | handwashing station |
| (a) | flushing-rim clinical service sink or equivalent flushing-rim fixture |
| (b) | work counter |
| (c) | space for separate covered containers for waste & soiled linen |
| (d) | fluid management system |
| (2) | check if not included in project |
| (a) | electrical & plumbing connections that meet manufacturer requirements |
| (b) | space for docking station |
| 145.230(G) | storage cabinets |
| 2.10-3.8.13.1 | Clean linen storage |
| | check if not included in project (only if no blankets or other linens are used) |
| (1) | clean linen storage area |
| or | covered cart in clean workroom in separate closet or using covered cart distribution system |
| (2) | covered linen cart is out of path of normal traffic |
| | covered linen cart is under staff control |
| 2.10-3.8.13.2 | Clinical equipment & supply |
| | storage areas or space for supply carts be provided |
| 2.10-3.8.13.3 | Storage space for wheelchairs & motorized chairs |
| (2) | min one wheelchair storage or wheelchair parking space provided for every four patient care stations |

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting:</td>
<td>connected to emergency power</td>
</tr>
<tr>
<td>145.291(C)(1)(b)</td>
<td></td>
</tr>
<tr>
<td>Ventilation:</td>
<td>Min. 4 air changes per hour</td>
</tr>
<tr>
<td>Table 8.1</td>
<td>Positive pressure</td>
</tr>
<tr>
<td>Lighting:</td>
<td>Connected to emergency power</td>
</tr>
<tr>
<td>145.291(C)(1)(b)</td>
<td></td>
</tr>
</tbody>
</table>
Architectural Requirements

2.1-6.2.7.1 Wheelchair storage
☐ check if not included in project
☐ designated area located out of required corridor width
☐ directly accessible* to entrance
☐ provided for at least one wheelchair

2.1-6.2.7.2 Wheelchair parking space
☐ designated area provided for parking at least one patient-owned wheelchair in non-public area
☐ located out of any required egress width or other required clearance

Support Areas for Staff:

2.10-3.9 Lockers

2.10-3.9.2 Staff toilet room
☐ handwashing station

Support Areas for Patients:

2.10-3.10 Patient toilet room
☐ handwashing station

PATIENT SUPPORT FACILITIES

2.10-8.4.2 Hemodialysis water treatment equipment area
☐ check if not included in project (only if dialysis equipment includes sufficient water treatment provisions for use of domestic cold water)

2.10-8.4.2.1 water treatment purification equipment located in dedicated area
☐ space to access all components of equipment
(1) includes drain
(2) located in secured space or room

2.10-4.5.1 Dialyzer reprocessing room
☐ check if not included in project

Building Systems Requirements

Ventilation:
☐ Min. 10 air changes per hour Table 8.1
☐ Exhaust
☐ Negative pressure
☐ No recirculating room units

Nurse Call System:
☐ Emergency call station Table 2.1-3

Table 8.1

Table 2.1-3
## Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10-4.5.2</td>
<td>Dialysate preparation area</td>
</tr>
<tr>
<td>2.10-4.5.2.2</td>
<td>check if not included in project</td>
</tr>
<tr>
<td>(1)</td>
<td>handwashing station</td>
</tr>
<tr>
<td>(2)</td>
<td>storage space</td>
</tr>
<tr>
<td>(3)</td>
<td>work counter for mixing &amp; distribution equipment</td>
</tr>
<tr>
<td>(4)</td>
<td>floor drain</td>
</tr>
<tr>
<td>(5)</td>
<td>treated water outlet</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10-4.5.3</td>
<td>Equipment repair room</td>
</tr>
<tr>
<td>2.10-4.5.3.1</td>
<td>handwashing station</td>
</tr>
<tr>
<td>2.10-4.5.3.2</td>
<td>treated water outlet for equipment maintenance</td>
</tr>
<tr>
<td>2.10-4.5.3.3</td>
<td>work counter</td>
</tr>
<tr>
<td>2.10-4.5.3.4</td>
<td>storage cabinet</td>
</tr>
<tr>
<td>2.10-4.5.4</td>
<td>Emergency first-aid equipment</td>
</tr>
<tr>
<td>2.1-8.4.3.8</td>
<td>quick-drench emergency deluge shower</td>
</tr>
<tr>
<td></td>
<td>face &amp; eyewash devices</td>
</tr>
</tbody>
</table>

## BUILDING SUPPORT FACILITIES

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.10-5.3</td>
<td>Environmental services room</td>
</tr>
<tr>
<td>2.1-5.3.1.2(1)</td>
<td>service sink or floor-mounted mop sink</td>
</tr>
<tr>
<td>2.1-5.3.1.2(2)</td>
<td>provisions for storage of supplies &amp; housekeeping equipment</td>
</tr>
<tr>
<td>2.1-5.3.1.2(3)</td>
<td>handwashing station or hand sanitation dispenser</td>
</tr>
</tbody>
</table>

## PUBLIC AREAS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-6.2.1</td>
<td>Vehicular drop-off &amp; pedestrian entrance</td>
</tr>
<tr>
<td>2.1-6.2.1.1</td>
<td>min. of one building entrance reachable from grade level</td>
</tr>
<tr>
<td>2.1-6.2.1.2</td>
<td>building entrances used to reach outpatient services are clearly marked</td>
</tr>
<tr>
<td>2.1-6.2.1.3</td>
<td>building entrances used to reach outpatient services located so patients need not go through other activity areas (except for shared lobbies in multi-occupancy buildings)</td>
</tr>
<tr>
<td>2.1-6.2.2</td>
<td>Reception</td>
</tr>
<tr>
<td></td>
<td>reception &amp; information counter, desk or kiosk provided either at main entry or at each clinical service</td>
</tr>
<tr>
<td>2.1-6.2.3</td>
<td>Waiting area</td>
</tr>
<tr>
<td>2.1-6.2.3.2</td>
<td>visible from staff area either by camera or direct staff sight line</td>
</tr>
<tr>
<td>2.1-6.2.4</td>
<td>Public toilet room</td>
</tr>
<tr>
<td>2.1-6.2.4.2</td>
<td>(may be located off public corridor in multi-tenant building)</td>
</tr>
<tr>
<td>2.1-6.2.4.1</td>
<td>readily accessible* from waiting area without passing through patient care or staff work areas</td>
</tr>
</tbody>
</table>

### Ventilation:

- Minimum 10 air changes per hour
- Exhaust
- Negative pressure
- No recirculating room units
### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-6.2.5</td>
<td>Provisions for telephone access</td>
</tr>
<tr>
<td>2.1-6.2.6</td>
<td>Access to make local phone calls</td>
</tr>
<tr>
<td>2.1-6.3.3</td>
<td>Office space for business, administrative &amp; professional staffs</td>
</tr>
<tr>
<td>2.1-6.3.5.1</td>
<td>Location restricted to staff access to maintain confidentiality of record</td>
</tr>
<tr>
<td>2.1-6.3.5.2</td>
<td>Space Requirements:</td>
</tr>
<tr>
<td>(1)</td>
<td>Space provided for medical records management</td>
</tr>
<tr>
<td>(2)</td>
<td>Physical space for electronic storage of forms or documents</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-6.2.5</td>
<td>Provisions for drinking water</td>
</tr>
</tbody>
</table>

### Administrative Areas

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-6.3.3</td>
<td>Office space for business, administrative &amp; professional staffs</td>
</tr>
<tr>
<td>2.1-6.3.5.1</td>
<td>Location restricted to staff access to maintain confidentiality of record</td>
</tr>
<tr>
<td>2.1-6.3.5.2</td>
<td>Space Requirements:</td>
</tr>
<tr>
<td>(1)</td>
<td>Space provided for medical records management</td>
</tr>
<tr>
<td>(2)</td>
<td>Physical space for electronic storage of forms or documents</td>
</tr>
</tbody>
</table>

### 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.

### Architectural Details & MEP Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-7.2.2</td>
<td>Architectural Details</td>
</tr>
<tr>
<td>2.1-7.2.2.1</td>
<td>Corridor Width:</td>
</tr>
<tr>
<td>(1)</td>
<td>Minimum 44”</td>
</tr>
<tr>
<td>(2)</td>
<td>Detailed code review incorporated in Project Narrative</td>
</tr>
<tr>
<td>421 CMR 6.00</td>
<td>Corridors include turning spaces for wheelchairs</td>
</tr>
<tr>
<td>(2)</td>
<td>Corridors used for stretcher &amp; gurney transport have min. corridor or aisle width of 6'0”</td>
</tr>
<tr>
<td>2.1-7.2.2.2</td>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>(4)</td>
<td>Minimum 7’-6” above floor of suspended tracks, rails &amp; pipes located in traffic path</td>
</tr>
<tr>
<td></td>
<td>Minimum ceiling height 7’-10” in other areas</td>
</tr>
<tr>
<td>2.1-7.2.2.3</td>
<td>Doors &amp; Door Hardware:</td>
</tr>
<tr>
<td>(1)</td>
<td>Door Type:</td>
</tr>
<tr>
<td>(a)</td>
<td>Sliding doors</td>
</tr>
<tr>
<td></td>
<td>☐ check if not included in project</td>
</tr>
<tr>
<td></td>
<td>☐ Manual or automatic sliding doors comply with NFPA 101</td>
</tr>
<tr>
<td></td>
<td>☐ Detailed code review incorporated in Project Narrative</td>
</tr>
<tr>
<td></td>
<td>☐ No floor tracks</td>
</tr>
<tr>
<td>(2)</td>
<td>Min. 34” clear door width</td>
</tr>
<tr>
<td>(a)</td>
<td>Min. 83.5” clear door height</td>
</tr>
<tr>
<td></td>
<td>☐ Rooms with Gurney Access:</td>
</tr>
<tr>
<td></td>
<td>☐ Check if not included in project</td>
</tr>
<tr>
<td>(b)</td>
<td>41.5” min. clear door width</td>
</tr>
<tr>
<td>(3)</td>
<td>79.5” min. clear door height</td>
</tr>
<tr>
<td>(3)</td>
<td>Door Swing:</td>
</tr>
<tr>
<td>(a)</td>
<td>Doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms &amp; electrical closets) &amp; doors with emergency breakaway hardware</td>
</tr>
<tr>
<td>(4)</td>
<td>Lever hardware or push/pull latch hardware</td>
</tr>
</tbody>
</table>
(5) Doors for Patient Toilet Facilities:
   (a) door that swings outward
   or
   door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)
   or
   sliding door other than pocket door

(b) toilet room opens onto public area or corridor
   ☐ check if not included in project
   visual privacy is maintained

2.1-7.2.2.8 HANDWASHING STATIONS:
(3)(a) Handwashing station countertops
   ☐ made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
   (3)(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
   ☐ check if not included in project
   (only at hand scrub facilities)
   (a) hand-drying device does not require hands to contact dispenser
   (b) hand-drying device is enclosed to protect against dust or soil

(6) Liquid or foam soap dispensers

2.1-7.2.2.9 GRAB BARS:
(1) Grab bars anchored to sustain concentrated load 250 pounds
(3) Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors

2.1-7.2.2.10 HANDRAILS:
☐ check if not included in project
(2) Rail ends return to wall or floor
(3) Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius
(4) Handrails have eased edges & corners
(5) Handrail finishes are cleanable

2.1-7.2.14 Decorative water features
☐ check if not included in project
(1) no indoor unsealed (open) water features in confines of outpatient suite
(2) no covered fish tanks in other than public areas of outpatient suite

2.10-7 SURFACES
☐ Surface materials be selected based on infection control risk assessment

2.1-7.2.4.3 Privacy curtains in 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 Table 8.1 are maintained for All 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 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

Part 3/6.1.2.2 Central cooling systems greater than 400 tons (1407 kW) peak cooling load
☐ check if not included in project
number & arrangement of cooling sources & essential accessories is sufficient to support owner’s facility operation plan upon breakdown or routine maintenance of any one of cooling sources

Part 3/6.2 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:
- 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
- all intakes are designed to prevent entrainment of wind-driven rain

Part 3/6.3.1.3 intakes on top of buildings
□ check if not included in project
- located with bottom of air intake min. of 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 Contaminated Exhaust Discharges:
□ check if not included in project
- ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms or HD sterile compounding pharmacy)
- exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building
- exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10 feet above adjoining roof level
- exhaust discharge outlets from laboratory work area chemical fume hoods discharge with stack velocity of at least 2500 fpm
- exhaust discharge outlets from AII rooms 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:
- One filter bank MERV 7

Part 3/6.7 AIR DISTRIBUTION SYSTEMS:

Part 3/6.7.1 Maintain pressure relationships required in tables 7.1 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
- Recovery rooms 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
- AII room exhaust systems 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 not used from these exhaust airstream sources: soiled or decontamination room, dialyzer reprocessing room

Part 3/7 SPACE VENTILATION:

Part 3/7.1.a Complies with Table 8.1
- Air movement is from clean to less-clean areas

Part 3/7.1.a.1

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 3/7.1.a.4 Entire minimum outdoor air changes per hour required by Table 8.1 for each space meet filtration requirements of Section 6.4
Part 3/7.1a.5  Air recirculation through room unit
☐ check if not included in project
☐ complies with Table 8.1
☐ 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

Part 3/7.2  ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:
Part 3/7.2.1  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 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
☐ Exhaust air from AII rooms, associated anterooms & toilet rooms is discharged directly to outdoors without mixing with exhaust air from any other non-AII room or exhaust system
☐ Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on wall near head of bed
☐ Anteroom
☐ check if not included in project
☐ AII room is at negative pressure with respect to anteroom
☐ Anteroom is at negative pressure with respect to corridor

2.1-8.3  ELECTRICAL SYSTEMS
2.1-8.3.2  ELECTRICAL DISTRIBUTION & TRANSMISSION
2.1-8.3.2.2  Panelboards:
(1)  all panelboards accessible to health care tenants they serve
(2)  panelboard serving critical branch circuits serve floors on which they are located
(3)  panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
(4)  panelboards not located in exit enclosures or exit passageways

2.1-8.3.3  POWER-GENERATING & -STORING EQUIPMENT
2.1-8.3.3.1  Essential electrical system or emergency electrical power
☐ essential electrical system complies with NFPA 99
☐ emergency electrical power complies with NFPA 99

145.291(C)(1)  Lighting on Emergency Power:
☐ task lighting
☐ exitways exit signs
☐ exit directional signs
☐ exit doorways, stairways, corridors & lobby
☐ generator set location & switchgear location

145.291(C)(2)  Equipment on Emergency Power:
☐ dialysis distribution systems & related equipment & if provided water treatment system
☐ corridor receptacles in patient treatment area
☐ telephone equipment, nurses call & intercom systems
☐ central batch delivery equipment & related systems if provided
☐ HVAC systems
☐ fire alarm & extinguishing systems

2.1-8.3.5  ELECTRICAL EQUIPMENT
2.1-8.3.5.1  Handwashing sinks that depends on building electrical service for operation are connected to essential electrical system
☐ check if not included in project

2.1-8.3.6  ELECTRICAL RECEPTACLES
☐ Receptacles in patient care areas are provided according to Table 2.1-1

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 problem

2.1-8.4.2.2  Hemodialysis/Hemoperfusion Water Distribution:
(1)(a)  separate treated water distribution system
(2)(b)  outlet at each individual hemodialysis treatment bay
☐ outlet at hemodialysis equipment repair area
☐ outlet at dialysate preparation area

MDPH/DHCFLC 12/19 OP14
(1)(b) __ dialysis equipment includes sufficient water treatment provisions for use of domestic cold water
(1)(a) __ drainage system independent from tap water
(4) __ liquid waste & disposal system for hemodialysis treatment area are designed to minimize odor & prevent backflow
(5) __ hemodialysis distribution piping is readily accessible for inspection & maintenance

2.1-8.4.2.5 Heated Potable Water Distribution Systems:
(2) __ heated potable water distribution systems serving patient care areas are under constant recirculation non-recirculated fixture branch piping length max. 25'-0”
(3)(a) __ no installation of dead-end piping (except for empty risers mains & branches for future use)
(3)(c) __ any existing dead-end piping is removed □ check if not included in project
(4)(a) __ water-heating system supplies water at following range of temperatures: 105–120°F

2.1-8.4.2.6 Drainage Systems:
(1)(a) __ drainage piping installed above ceiling of or exposed in rooms listed below piping have special provisions (e.g. double wall containment piping) to protect space below from leakage & condensation
  • electronic data processing areas
  • electrical rooms
(1)(b) __ drip pan for drainage piping above ceiling of sensitive area □ check if not included in project __ accessible __ overflow drain with outlet located in normally occupied area that is not open to restricted area

2.1-8.4.3 PLUMBING FIXTURES
2.1-8.4.3.1(1) __ Materials used for plumbing fixtures are non-absorptive & acid-resistant
2.1-8.4.3.2 Handwashing Station Sinks:
(1) __ sinks are designed with basins that will reduce risk of splashing to areas where direct patient care is provided sterile procedures are performed & medications are prepared
(2) __ sink basins have nominal size of no less than 144 square inches __ sink basins have min. dimension 9 inches in width or length
(3) __ sink basins are made of porcelain, stainless steel or solid-surface materials
(5) __ water discharge point of faucets is at least 10” above bottom of basin
(7) __ anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
(8) __ sinks used by staff, patients, & public have fittings that can be operated without using hands (may be single-lever or wrist blade devices)
  (a) __ blade handles □ check if not included in project __ at least 4 inches in length provide clearance required for operation
  (b) __ sensor-regulated water fixtures □ check if not included in project meet user need for temperature & length of time water flows designed to function at all times and during loss of normal power

2.1-8.4.3.5 Clinical Flushing-Rim Sinks:
(1) __ trimmed with valves that can be operated without hands (may be single-lever or wrist blade devices)
  (a)
  (b) __ handles are at least 6 in. long
  (2) __ integral trap wherein upper portion of water trap provides visible seal

2.1-8.5.1 CALL SYSTEMS
2.1-8.5.1.1(1) __ Nurse call stations provided as required in Table 2.1-3
2.1-8.7  **ELEVATORS**
☐ check if not included in project

2.1-8.7.3 Dimensions of Elevators Used for Transport of Outpatients on Gurneys:
   ____ elevator cars have min. inside floor dimension of 5'-8" wide by 7'-9" deep

2.1-8.7.4 ____ Elevators are equipped with:
   two-way automatic level-maintaining device with accuracy of ± 1/4 inch

2.1-8.7.5 Elevator Controls:
2.1-8.7.5.1 ____ elevator call buttons & controls not activated by heat or smoke
2.1-8.7.5.2 ____ light beams if used for operating door reopening devices without touch are used in combination with door-edge safety devices & are interconnected with system of smoke detectors
2.1-8.7.5.3 ____ elevator controls, alarm buttons & telephones are accessible to wheelchair occupants & usable by the blind