



**CITY OF LONG BEACH**  
 Department of Development Services  
 BUILDING AND SAFETY BUREAU  
**COMMERCIAL ACCESSIBILITY**  
**PLAN REVIEW CHECKLIST**



**DATE:**

<b>INFORMATION</b>	PROJECT NO.:	EXPIRATION DATE:	STATUS: <b>1<sup>st</sup> Review</b>	
	PROJECT ADDRESS:	VALUATION: \$		
	WORK DESCRIPTION:			
	APPLICANT'S NAME:	TEL. NO.:		
<b>INSTRUCTIONS</b>	<p>Your application for a permit, together with plans and specifications, has been examined and you are advised that the issuance of a permit is withheld for the reasons hereinafter set forth. The approval of plans and specifications does not permit the violation of any sections of the Building Code or other local ordinances or state laws.</p> <p>In an effort to streamline the plan review process, please follow the steps outlined below to ensure that there is no delay in processing your application and reviewing your responses to these plan check comments.</p> <ul style="list-style-type: none"> <li>• Comments with circled item numbers apply to this plan check.</li> <li>• Revised plans and calculations shall incorporate or address all comments marked on the original checked set of plans, calculations, and this plan review checklist. Provide a written response to each comment and show where and how it has been addressed. Identify the sheet number and detail or reference note on the revised plans where the corrections are made. Time spent searching for the corrected items on the revised plans or calculations will delay the review and approval process. Once all comments on the plans, calculations, and this checklist have been addressed, contact the plan check staff to <b>SCHEDULE AN APPOINTMENT</b> to review the changes made.</li> </ul>			
	<p>PLAN REVIEWER: _____ TEL. NO.: 562-570-_____</p> <p>ADDRESS: 333 W. OCEAN BLVD., 4<sup>TH</sup> FLOOR, LONG BEACH, CA 90802</p> <p>EMAIL: _____@longbeach.gov WEBSITE: www.lbds.info</p> <ul style="list-style-type: none"> <li>• Should you have any questions or need clarification pertaining to the comments made on your project, you may contact the plan check staff by telephone from 7:30 AM (8:30 AM Wed) to 4:30 PM (Monday - Friday).</li> <li>• Bring the original checked set of plans and calculations along with this checklist to the appointment meeting. Do not schedule an appointment meeting with the plan check staff until all comments have been addressed.</li> <li>• We will ensure that the appointment meeting or re-submittal of the plans for recheck will proceed as expeditiously as possible. If an impasse is reached during the appointment meeting, you may request that the plan check supervisor be summoned for a 2<sup>nd</sup> opinion or to attempt to resolve and/or clarify the matter.</li> <li>• Major revisions to the plans that necessitate additional review time may be subject to re-submittal and additional plan check fees as authorized by Section 18.06.030 of the Long Beach Municipal Code.</li> <li>• Reviewed plans and/or calculations not picked up within 60 days of notice will be discarded.</li> </ul>			
<b>NOTE</b>	<p>Numbers within the parenthesis ( ) refer to the section of the applicable code. 2013 California Building Code (CBC). Table (T).</p>			



**The State of California delegates to the local jurisdiction the authority to ensure compliance with Title 24, Part 2 of the California Code of Regulations. This correction list indicates specific areas of Title 24, Part 2 which are applicable to your project. Please be aware that the owner(s) of this building and his/her consultants are responsible for compliance with the most current Federal Regulations contained in the Americans with Disabilities Act (ADA) and Fair Housing Act (FHA). Where the ADA & FHA requirements exceed those contained in Title 24, Part 2, it is the owners responsibility and consultants to ensure compliance with the most current ADA & FHA regulations, as the County/City is not delegated the authority to plan review or inspect projects for ADA & FHA compliance.**

**SUPPLEMENTAL CORRECTION SHEETS:**

- Check list No. 1 – Elevators, LULAs & Platform Lifts
- Check list No. 2 – Signs
- Check list No. 3 – Restaurant
- Check list No. 4 – Assembly
- Check list No. 5 – Group B and Group M Occ.
- Check list No. 6 – Transient Lodging
- Check list No. 7 – MISC Facilities
- Check list No. 8 – Recreation Facilities
- Check list No. 9 – Public Housing

**A. APPLICATION AND ADMINISTRATION**

1. When alterations or additions are made to existing buildings or facilities, an accessible path of travel to the specific area of alteration or addition shall be provided unless otherwise exempt. **§11B-202.4**
2. Primary accessible path of travel shall include a primary entrance to the building or facility; toilet and bathing facilities serving the area; drinking fountains serving the area; public telephones serving the area, and signs. **§11B-202.4**
3. When the adjusted construction cost is less than or equal to the current valuation threshold \$147,863.00, the cost of compliance with the primary accessible path of travel requirements is limited to 20 percent of the adjusted construction cost of alterations, structural repairs or additions presently planned and those during the preceding three-year period. **§11B-202.4**
4. Adjusted construction cost of alterations, structural repairs or additions does not include the cost of alterations to path of travel elements. **§11B-202.4**

5. In choosing which accessible elements to provide, priority should be given to those elements that will provide the greatest access in the following order: (1) an accessible entrance; (2) an accessible route to the altered area; (3) at least one accessible restroom for each sex or a single accessible unisex restroom; (4) accessible telephones; (5) accessible drinking fountains; and (6) when possible, additional accessible elements such as parking, signs, storage and alarms. **§11B-202.4**
6. Alterations to a qualified historic building or facility shall comply with Chapter 11B unless it will threaten or destroy the historical significance or character-defining features of the building or property. In those cases, alternative provisions shall be applied on an item-by-item or case-by-case basis with sufficient written documentation. **§11B-202.5, SHBC 8-602**
7. **NOTE ON PLAN:** Public accommodations shall maintain in operable working condition those features of facilities and equipment that are required to be accessible to and useable by persons with disabilities. Isolated or temporary interruptions in service or accessibility due to maintenance or repairs shall be permitted. **§11B-108**

**B. BUILDING BLOCKS**

**FLOOR OR GROUND SURFACES**

1. Floor and ground surfaces shall be stable, firm, and slip resistant. **§11B-302.1**
2. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be ½ inch maximum. **§11B-302.2, Figure 11B-302.2**

**CHANGES IN LEVEL**

3. Vertical changes in level for floor or ground surfaces may be ¼ inch high maximum and without edge treatment. Changes in level greater than ¼ inch and not exceeding ½ inch in height shall be beveled with a slope not steeper than 1:2. **§11B-303, Figures 11B-303.2 & 11B-303.3**
4. Changes in level greater than ½ inch in height shall be ramped and shall comply with the requirements of 11B-405 Ramps or 11B-406 Curb Ramps as applicable. **§11B-303**
5. Abrupt changes in level exceeding 4 inches in a vertical dimension between walks, sidewalks or other pedestrian ways and adjacent surfaces or features shall be identified by warning curbs at least 6 inches in

height above the walk or sidewalk surface or by guards or handrails with a guide rail centered 2 inches minimum and 4 inches maximum above the surface of the walk or sidewalk. These requirements do not apply between a walk or sidewalk and an adjacent street or driveway. **§11B-303.5**

**TURNING SPACE**

- 6. Circular turning spaces shall be a space of 60 inches diameter minimum and may include knee and toe clearance complying with 11B-306 Knee and Toe Clearance. **§11B-304.3.1**
- 7. T-Shaped turning spaces shall be a T-shaped space within a 60 inch square minimum with arms and base 36 inches wide minimum. Each arm of the T shall be clear of obstructions 12 inches minimum in each direction and the base shall be clear of obstructions 24 inches minimum. **§11B-304.3.2, Figure 11B-304.3.2**

**KNEE AND TOE CLEARANCE**

- 8. For lavatories and built-in dining and work surfaces required to be accessible, toe clearance shall be provided that is 30 inches in width and 9 inches in height above the finish floor or ground for a depth of 19 inches minimum. **§11B-306.2.1**
- 9. Toe clearance shall extend 19 inches maximum under lavatories for toilet and bathing facilities and 25 inches maximum under other elements. **§11B-306.2.2**
- 10. At lavatories in toilet and bathing facilities, knee clearance shall be provided that is 30 inches in width for a depth of 11 inches at 9 inches above the finish floor or ground and for a depth of 8 inches at 27 inches above the finish floor or ground increasing to 29 inches high minimum above the finish floor or ground at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture. **§11B-306.3.3, Figure 11B-306.3(c)**
- 11. At dining and work surfaces required to be accessible, knee clearance shall be provided that is 30 inches in width at 27 inches above the finish floor or ground for a depth of at least 19 inches. **§11B-306.3**

**PROTRUDING OBJECTS**

- 12. Except for handrails, objects with leading edges more than 27 inches and less than 80 inches above the finish floor or ground shall protrude no more than 4 inches horizontally into the circulation path. Handrails may protrude 4½ inches maximum. **§11B-307.2, Figure 11B-307.2**
- 13. Freestanding objects mounted on posts or pylons shall overhang circulation paths no more than 12 inches

when located from 27 to 80 inches above the finish floor or ground. **§11B-307.3, Figure 11B-307.3(a)**

- 14. Protruding objects shall not reduce the clear width required for accessible routes. **§11B-307.5**
- 15. Lowest edge of a sign or other obstruction, when mounted between posts or pylons separated with a clear distance greater than 12 inches, shall be less than 27 inches or more than 80 inches above the finish floor or ground. **§11B-307.3, Figure 11B-307.3(b)**
- 16. Vertical clearance shall be at least 80 inches high on circulation paths except at door closers and door stops, which may be 78 inches minimum above the finish floor or ground. **§11B-307.4**
- 17. Guardrails or other barriers with a leading edge located 27 inches maximum above the finish floor or ground shall be provided where the vertical clearance on circulation paths is less than 80 inches high. **§11B-307.4, Figure 11B-307.4**
- 18. Where a guy support is used within either the width of a circulation path or 24 inches maximum outside of a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction. **§11B-307.4.1, Figure 11B-307.4.1**

**REACH RANGES**

- 19. Electrical controls and switches intended to be used by the occupant of a room or area to control lighting and receptacle outlets, appliances or cooling, heating and ventilating equipment shall be located within allowable reach ranges. Low reach shall be measured to the bottom of the outlet box and high reach shall be measured to the top of the outlet box. **§11B-308.1.1**
- 20. Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located within allowable reach ranges. Low reach shall be measured to the bottom of the outlet box and high reach shall be measured to the top of the outlet box. **§11B-308.1.2.**
- 21. High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the finish floor or ground. **§11B-308.2.1, Figure 11B-308.2.1**
- 22. High forward reach shall be 48 inches maximum where the reach depth is 20 inches or less and 44 inches maximum where the reach depth exceeds 20 inches. High forward reach shall not exceed 25 inches in depth. **§11B-308.2.2, Figure 11B-308.2.2**
- 23. High side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the finish floor where the side reach is unobstructed or the



depth of any obstruction does not exceed 10 inches.  
**§11B-308.3.1, Figure 11B-308.3.1**

24. High side reach shall be 46 inches maximum above the finish floor or ground where the high side reach is over an obstruction more than 10 inches but not more than 24 inches in depth. **§11B-308.3.2, Figure 11B-308.3.2**
25. Obstructions for high side reach shall not exceed 34 inches in height and 24 inches in depth. **§11B-308.3.2, Figure 11B-308.3.2**
26. Obstructed high side reach for the top of washing machines and clothes dryers shall be permitted to be 36 inches maximum above the finish floor. **§11B-308.3.2**
27. Obstructed high side reach for the operable parts of fuel dispensers shall be permitted to be 54 inches maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs. **§11B-308.3.2**

**OPERABLE PARTS**

28. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Force required to activate operable parts shall be 5 pounds maximum. **§11B-309.4**

**C. ACCESSIBLE ROUTES**

**GENERAL**

1. At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve. Where more than one route is provided, all routes must be accessible. **§11B-206.2.1 (See exceptions)**
2. At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site. **§11B-206.2.2 (See exception)**
3. At least one accessible route shall connect each story and mezzanine in multi-story buildings and facilities. **§11B-206.2.3 (See exceptions)**
4. In new construction of buildings where elevators are required by 11B-206.2.3 Multi-Story Buildings and Facilities, and which exceed 10,000 square feet on any floor, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet of travel of each stair and each escalator. **§11B-206.2.3.2**
5. In existing buildings that exceed 10,000 square feet on

any floor and in which elevators are required by 11B-206.2.3 Multi-Story Buildings and Facilities, whenever a newly constructed means of vertical access is provided via stairs or an escalator, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet of travel of each new stair or escalator. **§11B-206.2.3.2**

6. At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility, including mezzanines, which are otherwise connected by a circulation path. **§11B-206.2.4 (See exceptions 1 through 7)**
7. Accessible routes shall coincide with or be located in the same area as general circulation paths. Where circulation paths are interior, required accessible routes shall also be interior; An accessible route shall not pass through kitchens, storage rooms, restrooms, closets or other spaces used for similar purposes, except as permitted by Chapter 10. **§11B-206.3**

**EMPLOYEE WORKSTATIONS**

8. Employee workstations shall be on an accessible route complying with Division 4. Spaces and elements within employee workstations shall only be required to comply with Sections 11B-207.1, 11B-215.3, 11B-302, 11B-303, and 11B-404.2.3. Common use circulation paths within employee workstations shall comply with Section 11B-206.2.8. **§11B-203.9**

**DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE**

9. Curb ramps shall have detectable warnings that extend 36 inches in the direction of travel for the full width of the ramp run less than 2 inches maximum on each side, excluding any flared sides. **§11B-247.1.2.2, §11B-705.1.2.2**
10. On perpendicular curb ramps, detectable warnings shall be located so the edge nearest the curb is 6 to 8 inches from the line at the face of the curb marking the transition between the curb and the gutter, street or highway. **§11B-247.1.2.2, §11B-705.1.2.2**
11. On parallel curb ramps, detectable warnings shall be placed on the turning space at the flush transition between the street and sidewalk. Detectable warnings shall extend the full width of the turning space at the flush transition between the street and the sidewalk less than 2 inches maximum on each side **§11B-247.1.2.2, §11B-705.1.2.2, Figure 11B-406.3.2**
12. Islands or cut-through medians 96 inches or longer in length in the direction of pedestrian travel shall have detectable warnings that are 36 inches minimum in



- depth extending the full width of the pedestrian path or cut-through less than 2 inches maximum on each side, placed at the edges of the pedestrian island or cut-through median, and separated by 24 inches minimum of walking surface without detectable warnings. **§11B-247.1.2.3, §11B-705.1.2.3**
13. Walks that cross or adjoin a route provided for vehicular traffic, such as in a street, driveway, or parking facility, shall be separated by detectable warnings, curbs, railings or other elements between the pedestrian areas and vehicular areas. **§202, §11B-247.1.2.5, §11B-705.1.2.5**
  14. Detectable warnings provided to separate walks that cross or adjoin a route provided for vehicular traffic, such as in a street, driveway, or parking facility, shall be 36 inches in width and continuous at the boundary between the pedestrian areas and vehicular areas. **§202, §11B-247.1.2.5, §11B-705.1.2.5**
  15. Provide detectable warning details showing compliance with the following:
    - a. Detectable warning surfaces at **transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings** shall comply with Section 11B-705.1.1.3.1. **§11B-705.1.1.3**
    - b. Detectable warnings at other locations shall comply with either Section 11B-705.1.1.3.1 or Section 11B-705.1.1.3.2. The material used to provide visual contrast shall be an integral part of the surface. **§11B-705.1.1.3**
  16. Detectable warning surfaces shall be yellow and approximate FS 33538 of Federal Standard 595C. **§11B-705.1.1.3.1**
  17. Detectable warning surfaces shall provide a 70 percent minimum visual contrast with adjacent walking surfaces. Contrast in percent shall be determined by:
 

Contrast percent = [(B1-B2)/B1] x 100 where

B1 = light reflectance value (LRV) of the lighter area and

B2 = light reflectance value (LRV) of the darker area

**§11B-705.1.1.3.2 (See exception)**
  18. Entrances shall be provided in accordance with 11B-206.4 Entrances. Entrance doors, doorways, and gates shall comply with 11B-404 Doors, Doorways, and Gates and shall be on an accessible route complying with 11B-402 Accessible Routes; (See exceptions). **§11B-206.4**
  19. All entrances and exterior ground-floor exits to buildings and facilities shall comply with 11B-404 Doors, Doorways, and Gates. **§11B-206.4.1**
  20. Where direct access is provided for pedestrians from a parking structure to a building or facility entrance, each direct access to the building or facility entrance shall comply with 11B-404 Doors, Doorways, and Gates. **§11B-206.4.2**
  21. Direct connections to other facilities shall provide an accessible route complying with 11B-404 Doors, Doorways, and Gates from the point of connection to boarding platforms and all transportation system elements required to be accessible. Any elements provided to facilitate future direct connections shall be on an accessible route connecting boarding platforms and all transportation system elements required to be accessible. **§11B-206.4.4.2 (See exception)**
- TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTES**
22. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20 (5%), doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. **§11B-402.2**
  23. The running slope of walking surfaces shall not be steeper than 1:20 (5%). The cross slope of walking surfaces shall not be steeper than 1:48 (2.083%). **§11B-403.3**
  24. Except at turns or passing spaces, the clear width of walking surfaces shall be 36 inches minimum. **§11B-403.5.1**
  25. The clear width for walking surfaces in corridors serving an occupant load of 10 or more shall be 44 inches minimum. **§11B-403.5.1 exception 2**
  26. The clear width for sidewalks and walks shall be 48 inches minimum. **§11B-403.5.1 exception 3**
  27. The clear width for aisles shall be 36 inches minimum if serving elements on only one side, and 44 inches minimum if serving elements on both sides. **§11B-403.5.1 exception 4**
  28. The clear width for accessible routes to accessible toilet compartments shall be 44 inches except for door-opening widths and door swings. **§11B-403.5.1 exception 5**
- DOORS, DOORWAYS, AND GATES**
29. Doors, doorways, and gates providing user passage shall be provided in accordance with 11B-206.5 Doors, Doorways, and Gates. **§11B-206.5**
  30. Doors, doorways and gates that are part of an

- accessible route shall comply with 11B-404 Doors, Doorways, and Gates. **§11B-404.1**
31. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route. **§11B-402.2.1**
32. At least one of the active leaves of doorways with two leaves shall comply with 11B-404.2.3 Clear Width and 11B-404.2.4 Maneuvering Clearances. **§11B-404.2.2**
33. Door openings shall provide a clear width of 32 inches minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches deep shall provide a clear opening of 36 inches minimum. There shall be no projections into the required clear opening width lower than 34 inches above the finish floor or ground. Projections into the clear opening width between 34 inches and 80 inches above the finish floor or ground shall not exceed 4 inches. **§11B-404.2.3**
34. Minimum maneuvering clearances at doors and gates shall comply with 11B-404.2.4 Maneuvering Clearances. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance. **§11B-404.2.4**
35. Swinging doors and gates shall have maneuvering clearances complying with Table 11B-404.2.4.1. **§11B-404.2.4.1**
36. Doorways less than 36 inches wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 11B-404.2.4.2. **§11B-404.2.4.2**
37. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches of the latch side an interior doorway, or within 24 inches of the latch side of an exterior doorway, projects more than 8 inches beyond the face of the door, measured perpendicular to the face of the door or gate. **§11B-404.2.4.3**
38. Thresholds, if provided at doorways, shall be ½ inch high maximum. Raised thresholds and changes in level at doorways shall comply with 11B-302 Floor or Ground Surfaces and 11B-303 Changes in Level. **§11B-404.2.5.**
39. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 11B-309.4 Operation. Operable parts of such hardware shall be 34 inches minimum and 44 inches maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. **§11B-404.2.7**
40. The force for pushing or pulling open a door or gate other than fire doors shall be as follows: **§11B-404.2.9**
- a. Interior hinged doors and gates: 5 pounds maximum.
  - b. Sliding or folding doors: 5 pounds maximum.
  - c. Required fire doors: the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 pounds.
  - d. Exterior hinged doors: 5 pounds maximum.
41. Swinging door and gate surfaces within 10 inches of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. **§11B-404.2.10**
- RAMPS**
42. Provide ramp details, including slope, landings, and handrails.
43. Ramp runs shall have a running slope not steeper than 1:12 (8.33%). **§11B-405.2**
44. Cross slope of ramp runs shall not be steeper than 1:48 (2.083%). **§11B-405.3**
45. Floor or ground surfaces of ramp runs shall comply with 11B-302 Floor or Ground Surfaces. Changes in level other than the running slope and cross slope are not permitted on ramp runs. **§11B-405.4**
46. The clear width of a ramp run shall be 48 inches minimum. **§11B-405.5**
47. The rise for any ramp run shall be 30 inches maximum. **§11B-405.6**
48. Ramps shall have landings at the top and the bottom of each ramp run. **§11B-405.7**
49. Landings shall comply with 11B-302 Floor or Ground Surfaces. Changes in level are not permitted. **§11B-405.7.1**
50. The landing clear width shall be at least as wide as the widest ramp run leading to the landing. **§11B-405.7.2**
51. Top landings shall be 60 inches wide minimum. **§11B-405.7.2.1**
52. The landing clear length shall be 60 inches long minimum. **§11B-405.7.3**
53. Bottom landings shall extend 72 inches minimum in the direction of ramp run. **§11B-405.7.3.1**
54. Ramps that change direction between runs at landings

shall have a clear landing 60 inches minimum by 72 inches minimum in the direction of downward travel from the upper ramp run. **§11B-405.7.4**

55. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 11B-404.2.4 and 11B-404.3.2 shall be permitted to overlap the required landing area. Doors, when fully open, shall not reduce the required ramp landing width by more than 3 inches. Doors, in any position, shall not reduce the minimum dimension of the ramp landing to less than 42 inches. **§11B-405.7.5**
56. Ramp runs shall have compliant handrails per 11B-505 Handrails. **§11B-405.8**
57. Edge protection complying with 11B-405.9.2 Curb or Barrier shall be provided on each side of ramp runs and at each side of ramp landings. **§11B-405.9 (See exceptions)**
58. A curb, 2 inches high minimum, or barrier shall be provided that prevents the passage of a 4 inch diameter sphere, where any portion of the sphere is within 4 inches of the finish floor or ground surface. To prevent wheel entrapment, the curb or barrier shall provide a continuous and uninterrupted barrier along the length of the ramp. **§11B-405.9.2**
59. Landings subject to wet conditions shall be designed to prevent the accumulation of water. **§11B-405.10**

**HANDRAILS**

60. Handrails shall be provided on both sides of stairs and ramps. **§11B-505.2**
61. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs. **§11B-505.3**
62. Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces. **§11B-505.4**
63. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1½ inches minimum. Handrails may be located in a recess if the recess is 3 inches maximum deep and 18 inches minimum clear above the top of the handrail. **§11B-505.5**
64. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections

shall occur 1½ inches minimum below the bottom of the handrail-gripping surface. **§11B-505.6**

65. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1¼ inches minimum and 2 inches maximum. **§11B-505.7.1**
66. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6¼ inches maximum, and a cross-section dimension of 2¼ inches maximum. **§11B-505.7.2**
67. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 11B-505.10 Handrail Extensions. **§11B-505.10**
68. In alterations, where the extension of the handrail in the direction of stair flight or ramp run would create a hazard, the extension of the handrail may be turned 90 degrees from the direction of stair flight or ramp run. **§11B-505.10 exception 3**
69. Ramp handrails shall extend horizontally above the landing for 12 inches minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run. **§11B-505.10.1**
70. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight. **§11B-505.10.2**
71. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the last riser nosing. The horizontal extension of a handrail shall be 12 inches long minimum and a height equal to that of the sloping portion of the handrail as measured above the stair nosings. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight. **§11B-505.10.3**

**STAIRWAYS**

72. A stair is defined as a change in elevation, consisting of one or more risers. **§11B-202**
73. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches high minimum and 7 inches high maximum. Treads shall be 11 inches deep minimum. Curved stairways with winder treads are permitted at stairs which are not part of a required means of egress. (See exception) **§11B-504.2**

74. Open risers are not permitted. **§11B-504.3 (See exceptions)**
75. Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual contrast. Exterior stairs shall have the upper approach and all treads marked by a stripe providing clear visual contrast. The stripe shall be a minimum of 2 inches wide to a maximum of 4 inches wide placed parallel to, and not more than 1 inch from, the nose of the step or upper approach. The stripe shall extend the full width of the step or upper approach and shall be of material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement. **§11B-504.4.1**
76. The radius of curvature at the leading edge of the tread shall be ½ inch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1¼ inches maximum over the tread below. **§11B-504.5 (See exception for existing buildings)**
77. Stairs shall have handrails complying with 11B-505 Handrails. **§11B-504.6**
78. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water. **§11B-504.7**
79. Floor identification signs required by Chapter 10, Section 1022.9 complying with Sections 11B-703.1 Signs General, 11B-703.2 Raised Characters, 11B-703.3 Braille and 11B-703.5 Visual Characters shall be located at the landing of each floor level, placed adjacent to the door on the latch side, in all enclosed stairways in buildings two or more stories in height to identify the floor level. At the exit discharge level, the sign shall include a raised five pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters. **§11B-504.8**
- CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS**
80. Perpendicular ramp runs shall have a running slope not steeper than 1:12 (8.33%). **§11B-406.2.1**
81. For perpendicular ramps, where provided, curb ramp flares shall not be steeper than 1:10. **§11B-406.2, Figure 11B-406.2.2**
82. The running slope of the curb ramp segments shall be in-line with the direction of sidewalk travel. Ramp runs shall have a running slope not steeper than 1:12 (8.33%). **§11B-406.3.1, Figure 11B-406.3.2**
83. A turning space 48 inches minimum by 48 inches minimum shall be provided at the bottom of the curb ramp. The slope of the turning space in all directions shall be 1:48 maximum (2.083%). **§11B-406.3.2**
84. Blended transition ramps shall have a running slope not steeper than 1:20 (5%). **§11B-406.4.1**
85. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides. **§11B-406.5.1**
86. The clear width of curb ramp runs (excluding any flared sides), blended transitions, and turning spaces shall be 48 inches minimum. **§11B-406.5.2**
87. Landings shall be provided at the tops of curb ramps and blended transitions (parallel curb ramps shall not be required to comply). The landing clear length shall be 48 inches minimum. The landing clear width shall be at least as wide as the curb ramp, excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be 1:48 (2.083%) maximum. **§11B-406.5.3**
88. Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush. **§11B-406.5.6**
89. The cross slope of curb ramps and blended transitions shall be 1:48 (2.083%) maximum. **§11B-406.5.7**
90. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5%). The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level. **§11B-406.5.8**
91. The bottom of diagonal curb ramps shall have a clear space 48 inches minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches minimum clear space within the markings. **§11B-406.5.9**
92. Curb ramps and blended transitions shall have detectable warnings complying with 11B-705 Detectable Warnings. **§11B-406.5.12**
93. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at islands shall be 60 inches wide minimum. Where curb ramps are provided, they shall comply with 11B-406 Curb



Ramps, Blended Transitions and Islands. Landings complying with 11B-406.5.3 Landings and the accessible route shall be permitted to overlap. Islands shall have detectable warnings complying with 11B-705 Detectable Warnings and Detectable Directional Texture. **§11B-406.6, Figure 11B-406.6**

**D. GENERAL SITE AND BUILDING ELEMENTS**

**PARKING SPACES**

1. Where parking spaces are provided, accessible parking spaces shall be provided in number and kind required per 11B-208 Parking Spaces. **§11B-208.1**
2. Provide ( ) accessible parking spaces as required by Table 11B-208.2. **§11B-208.2 (See exceptions)**
3. Provide accessible spaces for each parking facility (parking lots and parking structures). The number of parking spaces required to be accessible is to be calculated separately for each parking facility; the required number is not based on the total number of parking spaces provided in all of the parking facilities provided on site. **§11B-208**
4. Ten percent of patient and visitor parking spaces provided to serve hospital outpatient facilities, and free-standing buildings providing outpatient clinical services of a hospital, shall comply with 11B-502 Parking Spaces. **§11B-208.2.1**
5. Twenty percent of patient and visitor parking spaces provided to serve rehabilitation facilities specializing in treating conditions that affect mobility and outpatient physical therapy facilities shall comply with 11B-502 Parking Spaces. **§11B-208.2.2**
6. One in every six or fraction of six parking spaces required by 11B-208.2 Minimum Number, but not less than one, shall be served by an access aisle 96 inches wide minimum placed on the side opposite the driver's side when the vehicle is going forward into the parking space and shall be designated "van accessible". All such spaces may be grouped on one level of a parking structure. **§11B-208.2.4, 11B-502, Fig 11B-502, 11B-502.3, & 11B-502.3.3**
7. Accessible parking spaces complying with 11B-502 Parking Spaces serving a particular building or facility shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance (as near as practical to an accessible entrance). **§11B-208.3.1**
8. In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces complying with 11B-502 Parking Spaces shall be dispersed and located closest to the accessible entrances. **§11B-208.3.1**

9. In parking facilities that do not serve a particular building or facility, accessible parking spaces complying with 11B-502 Parking Spaces shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. **§11B-208.3.1**
10. Dimension minimum 18-foot long car and van accessible parking space(s) and access aisle(s). **§11B-502.2, Figures 11B-502.2 and 11B-502.3**
11. Dimension minimum 9-foot width at accessible car parking space. **§11B-502.2, Fig. 11B-502.2 & Fig. 11B-502.3**
12. Dimension minimum 12-foot wide accessible van parking space with minimum 5-foot wide access aisle. Van parking spaces shall be permitted to be minimum 9 feet wide where access aisle is 8-foot wide minimum. **§11B-502.2, Figures 11B-502.2 and 11B-502.3**
13. Car and van stall access aisle shall be 5 foot wide minimum and shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle. **§11B-502.3, Figures 11B-502.2 and 11B-502.3**
14. Access aisles shall be marked with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a maximum of 36 inches on center in a color contrasting with that of the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a minimum of 12 inches in height and located to be visible from the adjacent vehicular way. Access aisle markings may extend beyond the minimum required length. **§11B-502.3.3, Figure 11B-502.3.3**
15. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for van parking spaces which shall have access aisles located on the passenger side of the parking spaces. **§11B-502.3.4**
16. Clearly show minimum vertical clearance of 8 feet 2 inches at accessible parking spaces and along at least one vehicle access route to such spaces from site entrances and exits. **§11B-502.5**
17. Parking space identification signs shall include the International Symbol of Accessibility complying with 11B-703.7.2.1 International Symbol of Accessibility. **§11B-502.6, Figure 11B-703.7.2.1**
18. Signs identifying van parking spaces shall contain additional language or an additional sign with the designation "van accessible." Signs shall be 60 inches minimum above the finish floor or ground surface measured to the bottom of the sign. **§11B-502.6**



19. Parking identification signs shall be reflectorized with a minimum area of 70 square inches. **§11B-502.6.1**

20. Additional language or an additional sign below the International Symbol of Accessibility shall state "Minimum Fine \$250." **§11B-502.6.2**

21. A parking space identification sign shall be visible from each parking space. Signs shall be permanently posted either immediately adjacent to the parking space or within the projected parking space width at the head end of the parking space. Signs may also be permanently posted on a wall at the interior end of the parking space. **§11B-502.6.3**

22. Each accessible car and van space shall have surface identification complying with either of the following schemes: **§11B-502.6.4**

a. The parking space shall be marked with an International Symbol of Accessibility complying with 11B-703.7.2.1 International Symbol of Accessibility in white on a blue background a minimum 36 inches wide by 36 inches high. The centerline of the International Symbol of Accessibility shall be a maximum of 6 inches from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space length. **§11B-502.6.4.1**

b. The parking space shall be outlined or painted blue and shall be marked with an International Symbol of Accessibility complying with 11B-703.7.2.1 International Symbol of Accessibility a minimum 36 inches wide by 36 inches high in white or a suitable contrasting color. The centerline of the International Symbol of Accessibility shall be a maximum of 6 inches from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space. **§11B-502.6.4.2**

23. An additional sign shall be posted either; 1) in a conspicuous place at each entrance to an off-street parking facility or 2) immediately adjacent to on-site accessible parking and visible from each parking space. **§11B-502.8**

a. The additional sign shall not be less than 17 inches wide by 22 inches high. **§11B-502.8.1**

b. The additional sign shall clearly state in letters with a minimum height of 1 inch the following: **§11B-502.8.2**

"Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at

the owner's expense. Towed vehicles may be reclaimed at: \_\_\_\_\_ or by telephoning \_\_\_\_\_."

*Blank spaces shall be filled in with appropriate information as a permanent part of the sign.*

24. Signs intended for use by pedestrians within parking facilities, including directional or informational signs indicating parking sections or levels, shall comply with the requirements of 11B-216. **§11B-216.5.2**

**RELATIONSHIP TO ACCESSIBLE ROUTES**

25. Parking spaces and access aisles shall be designed so that persons using them are not required to travel behind parking spaces other than to pass behind the parking space in which they parked. **§11B-502.7.1**

26. A curb or wheel stop shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes. **§11B-502.7.2**

**PASSENGER LOADING ZONES, DROP-OFF ZONES, AND BUS STOPS**

27. Parking facilities that provide valet parking services shall provide at least one passenger loading zone complying with 11B-503 Passenger Drop-off and Loading Zones. The parking requirements of 11B-208.1 Parking Spaces General apply to facilities with valet parking. **§11B-209.4**

28. Mechanical access parking garages shall provide at least one passenger-loading zone complying with 11B-503 Passenger Drop-off and Loading Zones at vehicle drop-off and vehicle pick-up areas. **§11B-209.5**

29. Passenger drop-off and loading zones shall provide a vehicular pull-up space 96 inches wide minimum and 20 feet long minimum. **§11B-503.2**

30. Passenger drop-off and loading zones shall provide access aisles complying with the following adjacent and parallel to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way. **§11B-503.3**

a. Access aisles serving vehicle pull-up spaces shall be 60 inches wide minimum. **§11B-503.3.1**

b. Access aisles shall extend the full length of the vehicle pull-up spaces they serve. **§11B-503.3.2**

c. Access aisles shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines

a maximum of 36 inches on center in a color contrasting with that of the aisle surface **§11B-503.3.3**

31. Vehicle pull-up spaces and access aisles serving them shall comply with 11B-302 Floor or Ground Surfaces. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. **§11B-503.4**
32. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches minimum. **§11B-503.5**
33. Each passenger-loading zone designated for persons with disabilities shall be identified with a reflectorized sign complying with 11B-703.5 Visual Characters. It shall be permanently posted immediately adjacent to and visible from the passenger-loading zone stating "Passenger Loading Zone Only" and including the International Symbol of Accessibility (ISA) complying with 11B-703.7.2.1 ISA. **§11B-503.6**

**E. PLUMBING FIXTURES AND FACILITIES**

**DRINKING FOUNTAINS**

1. No fewer than two drinking fountains shall be provided. When provided, one drinking fountain shall comply with 11B-602.1 through 11B-602.6, 11B-602.8 and 11B-602.9 and one drinking fountain shall comply with 11B-602.7 and 11B-602.9. **§11B-211.2 (See exception)**
2. Where more than the minimum number of drinking fountains specified in 11B-211.2 are provided, 50 percent of the total number of drinking fountains provided shall comply with 11B-602.1 through 11B-602.6, 11B-602.6, 11B-602.8 and 11B-602.9 and 50 percent of the total number of drinking fountains provided shall comply with 11B-602.7 and 11B-602.9. **§11B-211.3 (See exception)**
3. Drinking fountains shall comply with 11B-307 Protruding Objects and 11B-602 General Requirements. **§11B-602.1**
4. Units shall have a clear floor or ground space complying with 11B-305 Clear Floor or Ground Space positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 11B-306 Knee and Toe Clearance shall be provided. **§11B-602.2**
5. Where drinking fountains are used by children, a parallel approach complying with 11B-305 Clear Floor or Ground Surfaces shall be permitted at units where the spout is 30 inches maximum above the finish floor

or ground and is 3½" maximum from the front edge of the unit, including bumpers. **§11B-602.2 (See exception)**

6. Spout outlets shall be 36 inches maximum above the finish floor or ground. **§11B-602.4**
7. The spout shall be located 15 inches minimum from the vertical support and 5 inches maximum from the front edge of the unit, including bumpers. **§11B-602.5**
8. The spout shall provide a flow of water 4 inches high minimum and shall be located 5 inches maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches from the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches and 5 inches maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum. **§11B-602.6**
9. Spout outlets of drinking fountains for standing persons shall be 38 inches minimum and 43 inches maximum above the finish floor or ground. **§11B-602.7**
10. Wall and post-mounted cantilevered drinking fountains shall be 18 inches minimum and 19 inches maximum in depth. **§11B-602.8**
11. All drinking fountains shall either be located completely within alcoves, positioned completely between wing walls, or otherwise positioned so as not to encroach into pedestrian ways. The protected area within such a drinking fountain is located shall be 32 inches wide minimum and 18 inches deep minimum, and shall comply with 11B-305.7 Maneuvering Clearance. When used, wing walls or barriers shall protect horizontally at least as far as the drinking fountain and to within 6 inches vertically from the floor or ground surface. **§11B-602.9**

**TOILET AND BATHING ROOM CLEARANCES**

12. Where toilet facilities and bathing facilities are provided, they shall comply with 11B-213 Toilet Facilities and Bathing Facilities. Where toilet facilities and bathing facilities are provided in facilities permitted by 11B-206.2.3 Multi-Story Buildings and Facilities Exceptions 1 and 2 not to connect stories by an accessible route, toilet facilities and bathing facilities shall be provided on a story connected by an accessible route to an accessible entrance. **§11B-213.1**
13. Where separate toilet facilities are provided for the exclusive use of separate user groups, the toilet facilities serving each user group shall comply with 11B-213 Toilet Facilities and Bathing Facilities. **§11B-213.1.1**

14. Where toilet rooms are provided, each toilet room shall comply with 11B-603 Toilet and Bathing Rooms. Where bathing rooms are provided, each bathing room shall comply with 11B-603 Toilet and Bathing Rooms. **§11B-213.2 (See exception)**
15. Unisex toilet rooms shall contain not more than one lavatory, and not more than two water closets without urinals or one water closet and one urinal. Unisex bathing rooms shall contain one shower or one shower and one bathtub, one lavatory, and one water closet. Doors to unisex toilet rooms and unisex bathing rooms shall have privacy latches. **§11B-213.2.1**
16. Door shall not swing into the clear floor space or clearance required for any fixture. Other than the door to the accessible water closet compartment, a door in any position may encroach into the turning space by 12 inches maximum. **§11B-603.2.3**
17. At single user toilet or bathing rooms, doors shall be permitted to swing into the clear floor space or clearance required for any fixture only if a 30 inch by 48-inch minimum clear floor space is provided within the room beyond the arc of the door swing. **§11B-603.2.3 (See exception)**
18. Mirrors located above the lavatories or countertops shall be installed within the bottom edge of the reflecting surface 40 inches maximum above the finish floor or ground. Mirrors not located above the lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish floor or ground. **§11B-603.3**
19. Coat hooks shall be located within one of the reach ranges specified in 11B-308. Shelves shall be located 40 inches minimum and 48 inches maximum above the finish floor. Medicine cabinets shall be located with a usable shelf no higher than 44 inches maximum above the finish floor. **§11B-603.4**
20. Where towel or sanitary napkin dispensers, waste receptacles, or other accessories are provided in toilet facilities, at least one of each type shall be located on an accessible route. All operable parts, including coin slots, shall be 40 inches maximum above the finish floor. Baby changing stations are not required to comply with 11B-603.5 (See exception) **§11B-603.5**
21. Bathtubs shall comply with **11B-607** including the requirements for clearances, grab bars, seats, controls, shower spray unit and water and bathtub enclosures.
22. Shower compartments shall comply with **11B-608** including the requirements for clearances, grab bars, seats, controls, shower spray unit and water,

thresholds, shower enclosures, shower floor or ground surface and soap dish.

**WATER CLOSETS AND TOILET COMPARTMENTS**

23. Where toilet compartments are provided, at least 5 percent but no fewer than one toilet compartment shall comply with 11B-604.8.1. In addition to the compartments required to comply with 11B-604.8.1, where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures, toilet compartments complying with 11B-604.8.2 shall be provided in the same quantity as the toilet compartments required to comply with 11B-604.8.1 **§11B-213.3.1**
24. Where water closets are provided, at least 5 percent but no fewer than one shall comply with 11B-604. **§11B-213.3.2**
25. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 17 inches minimum to 18 inches maximum from the side wall or partition, except that the water closet shall be 17 inches minimum and 19 inches maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 11B-604.8.2 Ambulatory Accessible Compartments. Water closets shall be arranged for a left-hand or right-hand approach. **§11B-604.2**
26. Clearance around a water closet shall be 60 inches minimum measured perpendicular from the sidewall and 56 inches minimum measured perpendicular from the rear wall. A minimum 60 inches wide and 48 inches deep maneuvering space shall be provided in front of the water closet. **§11B-604.3.1**
27. The seat height of a water closet above the finish floor shall be 17 inches minimum and 19 inches maximum measured to the top of the seat. Seats shall not be sprung the return to a lifted position. Seats shall be 2 inches high maximum and a 3-inch high seat shall be permitted only in alterations where the existing fixture is less than 15 inches high. **§11B-604.4 (See exception for Residential Units)**
28. The sidewall grab bars shall be 42 inches long minimum, located 12 inches maximum from the rear wall and extending 54 inches minimum from the rear wall with the front end positioned 24 inches minimum in front of the water closet. **§11B-604.5.1**
29. The rear grab bar shall be 36 inches long minimum and extend from the centerline of the water closet 12 inches minimum on one side and 24 inches minimum on the other side. **§11B-604.5.2 (See exception)**
30. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 11B-

- 309.4 Operation except they shall be located 44 inches maximum above the floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 11B-604.8.2 Ambulatory Accessible Compartments. **§11B-604.6**
31. Toilet paper dispensers shall comply with 11B-309.4 Operation and shall be 7 inches minimum and 9 inches maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be below the grab bar, 19 inches minimum above the finish floor and shall not be located behind the grab bars. Dispensers shall not be of a type that control delivery or that does not allow continuous paper flow. **§11B-604.7**
  32. Wheelchair accessible toilet compartments shall meet the requirements of 11B-604.8.1 Wheelchair Accessible Compartments and 11B-604.8.3 Coat Hooks and Shelves. Compartments containing more than one plumbing fixture shall comply with 11B-603 Toilet and Bathing Rooms. Ambulatory accessible compartments shall comply with 11B-604.8.2 Ambulatory Accessible Compartments and 11B-604.8.3 Coat Hooks and Shelves. **§11B-604.8**
  33. In a wheelchair accessible compartment with an in-swing door, a minimum 60 inches wide by 36 inches deep maneuvering space shall be provided in front of the clearance required in 11B-604.8.1.1 Wheelchair Accessible Compartment Size. **§11B-604.8.1.1.1, Figures 11B-604.8.1.1.2(b) and 11B-604.8.1.1.3(b)**
  34. In a wheelchair accessible compartment with a door located in the side wall or partition, either in-swinging or out-swinging, a minimum 60 inches wide and 60 inches deep maneuvering space shall be provided in front of the water closet. **§11B-604.8.1.1.2 Figure 11B-604.8.1.1.2**
  35. In a wheel chair accessible compartment with end-opening door located in the front wall or partition (facing water closet), either in-swinging or out-swinging, a minimum 60 inches wide and 48 inches deep maneuvering space shall be provided in front of the water closet. **§11B-604.8.1.1.3 Figure 11B-604.8.1.1.3**
  36. Toilet compartment doors, including door hardware, shall comply with 11B-404 Doors, Doorways, and Gates except that if the approach is from the push side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 48 inches minimum measured perpendicular to the compartment door in its closed position. Door shall be located in front partition or in the side wall or partition farthest from the water closet. **§11B-604.8.1.2**
  37. Where toilet compartment doors are located in the front partition, the door opening shall be 4 inches maximum from the sidewall or partition farthest from the water closet. Where located in the sidewall or partition, the door opening shall be 4 inches maximum from the front partition and the door shall be self-closing. **§11B-604.8.1.2**
  38. A door pull complying with 11B-404.2.7 Door and Gate Hardware shall be placed on both sides of the door near the latch. Door shall not swing into the clear floor space or clearance required for any fixture. Doors may swing into that portion of the maneuvering space which does not overlap the clearance required at a water closet. **§11B-604.8.1.2 (See exception)**
  39. At least one side partition shall provide a toe clearance of 9 inches minimum above the finish floor and 6 inches deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Partition components at toe clearances shall be smooth without sharp edges or abrasive surfaces. Compartments for children's use shall provide a toe clearance of 12 inches minimum above the finish floor. **§11B-604.8.1.4**
  40. Ambulatory accessible compartments shall have a depth of 35 inches minimum and 37 inches maximum. **§11B-604.8.2.1**
  41. Water closets and toilet compartments for children's use shall comply with 11B-604.9 Water Closets and Toilet Compartments for Children's Use and follow suggested dimensions on Table 11B-604.9. **§11B-604.9**
  42. Where urinals are provided, at least 10 percent but no fewer than one shall comply with 11B-605. **§11B-213.3.3.**
  43. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches maximum above the finish floor or ground. Urinals shall be 13½ inches deep minimum measured from the outer face of the urinal rim to the back of the fixture. **§11B-605.2**
  44. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 11B-309 Operable Parts except that the flush control shall be mounted at a maximum height of 44 inches above the finish floor. **§11B-605.4**
  45. Where lavatories are provided, at least 10 percent but no fewer than one shall comply with 11B-606 and shall not be located in a toilet compartment. **§11B-213.3.4, §11B-606.1.**
  46. For lavatories and sinks, a clear floor space complying with 11B-305 Clear Floor or Ground Surfaces, positioned for a forward approach, and knee and toe

clearance complying with 11B-306 Knee and Toe Clearance shall be provided. **§11B-606.2**

- 47. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches maximum above the finish floor or ground. **§11B-606.3**

**SIGNS RELATED TO TOILETS AND BATHRING FACILITIES**

- 48. Entrances leading to toilet rooms and bathing rooms complying with 11B-603 Toilet and Bathing Rooms shall be identified by a geometric symbol complying with 11B-703.7.2.6 Toilet and Bathing Room Geometric Symbols. Where existing toilet rooms or bathing rooms do not comply with 11B-603 Toilet and Bathing Rooms, directional signs indicating the location of the nearest compliant toilet room or bathing room within the facility shall be provided. Signs shall comply with 11B-703.5 Visual Characters and shall include the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. Where existing toilet rooms or bathing rooms do not comply with 11B-603 Toilet and Bathing Rooms, the toilet rooms or bathing rooms complying with 11B-603 Toilet and Bathing Rooms shall be identified by the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. Where clustered single user toilet rooms or bathing facilities are permitted to use exceptions to 11B-213.2 Toilet and Bathing Rooms, toilet rooms or bathing facilities complying with 11B-603 Toilet and Bathing Rooms shall be identified by the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA unless all toilet rooms and bathing facilities comply with 11B-603 Toilet and Bathing Rooms. Existing buildings that have been remodeled to provide specific toilet rooms or bathing rooms for public use that comply with these building standards shall have the location of and the directions to these rooms posted in or near the building lobby or entrance on a sign complying with 11B-703.5 Visual Characters, including the International Symbol of Accessibility complying with 11B-703.7.2.1 ISA. **§11B-216.8**

- 49. Pictograms shall comply with the following:
  - a. Pictograms shall have a field height of 6 inches minimum. Characters and Braille shall not be located in the pictogram field. **§11B-703.6.1**
  - b. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field. **§11B-703.6.2**
  - c. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 11B-703.2 Raised Characters,

11B-703.3 Braille and 11B-703.4 Installation Height and Location. **§11B-703.6.3**

- d. The installation height and location of Pictogram signs shall be per **§11B-703.4.1.**
- 50. Symbols shall comply with the following:
  - a. Doorways leading to toilet rooms and bathing rooms shall be identified by a geometric symbol complying with 11B-703.7.2.6 Toilet and Bathing Facilities Geometric Symbols. The symbol shall be mounted at 58 inches minimum and 60 inches maximum above the finish floor or ground surface measured from the centerline of the symbol. Where a door is provided the symbol shall be mounted within 1 inch of the vertical centerline of the door. **§11B-703.7.2.6 (See exception)**
  - b. Men’s toilet and bathing facilities shall be identified by an equilateral triangle, ¼ inch thick with edges 12 inches long and a vertex pointing upward. The triangle symbol shall contrast with the door, either light on a dark background or dark on a light background. **§11B-703.7.2.6.1**
  - c. Women’s toilet and bathing facilities shall be identified by a circle, ¼ inch thick and 12 inches in diameter. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. **§11B-703.7.2.6.2**
  - d. Unisex toilet and bathing facilities shall be identified by a circle, ¼ inch thick and 12 inches in diameter with a ¼ inch thick triangle with a vertex pointing upward superimposed on the circle and within the 12-inch diameter. The triangle symbol shall contrast with the circle symbol, either light on a dark background or dark on a light background. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. **§11B-703.7.2.6.3**

**WASHING MACHINE AND CLOTHES DRYERS**

Washing machines and clothes dryer’s operable parts must comply with 11B-309 Operable Parts. **§11B-611.3**

- 51. Top loading machines shall have the door to the laundry compartment located 36 inches maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches minim and 36 inches maximum above the finish floor. **§11B-611.4**

**F. COMMUNICATION ELEMENTS AND FEATURES**

**FIRE ALARM SYSTEMS**



1. Where fire alarm systems and carbon monoxide alarm systems provide audible alarm coverage, alarms shall comply with 11B-215 Fire Alarm Systems. **§11B-215.1 (See exception)**
2. Alarms in public use areas and common use areas shall comply with 702 Chapter 9, Section 907.5.2.3.1. **§11B-215.2**
3. Where employee work areas have audible alarm coverage, the wiring system shall be designed so that visible alarms complying with Chapter 9, Section 907.5.2.3.2 can be integrated into the alarm system. **§11B-215.3**
4. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see “Referenced Standards” in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition). and Chapter 9, Sections 907.5.2.1 and 907.5.2.3. **§11B-702.1**
8. Where a building contains more than one assembly area under one management, the total number of required receivers may be calculated using the total number of seats in the assembly areas provided that all receivers are usable with all systems. **§11B-219.3 (See exception)**
9. Twenty-five percent minimum of receivers provided for assistive listening systems, but no fewer than two, shall be hearing-aid compatible with except when all seats in an assembly area are served by means of an induction loop. **§11B-219.3**
10. When assistive-listening systems are limited to specific areas or seats, such areas or seats shall be within a 50-foot viewing distance of the stage or playing area and shall have a complete view of the stage or playing area. **§11B-219.4**
11. Permanently installed assistive-listening systems are required in areas if (1) they have fixed seating and (2a) they accommodate at least 50 persons or (2b) they have audio-amplification systems, except those used exclusively for paging and/or background music. **§11B-219.2, §11B-219.5**
12. Portable assistive-listening systems may serve more than one conference or meeting rooms if an adequate number of electrical outlets or other supplementary wiring is provided and permanently installed systems are not required. **§11B-219.5**

**ASSISTIVE LISTENING SYSTEMS**

5. Assistive listening systems shall be provided in assembly areas, including conference and meeting rooms, used for the purpose of entertainment, educational or civic gatherings, or similar purposes. **§202, §11B-219.2**  
 Note: Assembly areas include, but are not limited to, classrooms, lecture halls, courtrooms, public meeting rooms, public hearing rooms, legislative chambers, motion picture houses, auditoria, theaters, playhouses, dinner theaters, concert halls, centers for the performing arts, amphitheaters, arenas, stadiums, grandstands, or convention centers. **§202, §11B-219.2**
6. Assistive listening system shall provide an amplification system utilizing transmitters, receivers, and coupling devices to bypass the acoustical space between a sound source and a listener by means of induction loop, radio frequency, infrared, or direct-wired equipment. **§202**
7. Provide (\_\_\_\_\_) assistive listening systems. A minimum number of receivers equal to 4 percent of the total number of seats, but in no case less than two. **§11B-219.3**
13. Receivers required for use with an assistive listening system shall include a 1/8 inch standard mono jack. **§11B-706.2**
14. Receivers required to be hearing aid compatible shall interface with telecoils in hearing aids through the provision of neck loops. **§11B-706.3**
15. Assistive listening systems shall be capable of providing a sound pressure level from 110 – 118 dB with a dynamic range on the volume control of 50 dB. **§11B-706.4**
16. Signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum. **§11B-706.5**
17. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech. **§11B-706.6**

**TWO-WAY COMMUNICATION SYSTEMS**

18. Two-way communication systems that are provided to gain admittance to a building or facility or to restricted areas within a building or facility shall provide both audible and visual signals. Handset cords, if provided, shall be 29 inches long minimum. **§11B-230.1, §11B-708**

