TITLE 24-DISABLED ACCESS
COMMERCIAL PLAN REQUIREMENTS

A. SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL

NOTE: Accessible route of travel is defined as "a continuous unobstructed path connecting all accessible elements and spaces in an accessible building or facility that can be negotiated by a person with a severe disability using a wheelchair and that is also safe for and usable by persons with other disabilities". Sec 1127B.1

1. Site development and grading shall be designed to provide access to all entrances and exterior ground floor exits, and access to normal paths of travel, and where necessary to provide access, shall incorporate pedestrian ramps, curb ramps, etc. Sec 1127B.1

2. When more than one building or facility is located on a site, accessible routes of travel shall be provided between buildings and accessible site facilities. Sec 1127B.1

3. The accessible route of travel shall be the most practical direct route between accessible building entrances, accessible site facilities, and the accessible entrance to the site. Sec 1127B.1

4. At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones, and public streets or sidewalks, to the accessible building entrance they serve. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public. Sec 1114B.1.2

5. When a building or portion of a building is required to be accessible or adaptable, an accessible route of travel shall be provided to all portions of the building, to accessible building entrances, and between the building and the public way. Sec 1114B.1.2

6. At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements that are on the same site and with all accessible dwelling units within the building or facility. Sec 1114B.1.2

7. An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit. Sec 1114B.1.2

8. Except within an individual dwelling unit, an accessible route of travel shall not pass through kitchens, storage rooms, restrooms, closets, or other spaces used for similar purposes. Sec 1114B.1.2

9. When more than one route of travel is provided, all routes shall be accessible. Sec 1114B.1.2

B. WALKS AND SIDEWALKS

1. Walks and sidewalks shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding 1/2", and shall be a minimum of 48" in width. Sec 1023.1 Fig 11B-27(a)

2. When abrupt changes in level not exceeding 1/2" occur, they shall be beveled with a slope no greater than 1:2, except that level changes not exceeding 1/4" may be vertical. Sec 1023.4 Fig 11B-5E(c) & (d).

3. Abrupt changes in level along any accessible route exceeding 1/2" shall comply with the requirements for curb ramps. Sec 1023.4

4. When the slope in the direction fo travel of any walk exceeds 1 vertical to 20 horizontal it shall comply with the provisions of Section 1007 as a pedestrian ramp. Sec 1023.3

5. Walk and sidewalk surface cross slopes shall not exceed 1/4" per foot except when the enforcing agency finds that due to local conditions it creates an unreasonable hardship, the cross slope can be increased to a maximum fo 1/2" per foot for distances not to exceed 20'. Sec 1023.1.3

6. Walks shall be provided with a level area not less than 60" by 60" at a door or gate that swings toward the walk, and not less than 48" wide by 44" deep at a door or gate that swings away from the walk. Sec 1023.5

7. Walks shall extend a minimum of 24" to the side fo the strike edge of a door or gate that swings toward the walk. Sec 1023.5

8. All walks with continuous gradients shall have level areas at least 5' in length at intervals of at least every 400'. Sec 1023.6

9. Walk and sidewalks surfaces shall be slip-resistant as follows: Sec 1023.1
a. Surfaces with a slope of less than 6% gradient shall be at least as slip-resistant as that described as a medium salted finish.

b. Surfaces with a slope of 6% gradient shall be slip-resistant.

10. Walks, sidewalks, and pedestrian ways shall be free of gratings whenever possible. For gratings located in the surface on any of these areas, grid openings in gratings shall be no greater than 1/2" wide in one direction. If gratings have elongated openings, they shall be placed so that the long dimension is perpendicular to the dominant direction of travel. Sec 1124B.4 & 1023.2. Fig 11B-7B(a).

C. RAMPS

NOTE: Any path of travel shall be considered a ramp if its slope is greater than 1' rise in 20' of horizontal run. Sec 1007.1a & 1023.3

1. The maximum slope of a ramp that serves any exitway, provides access for persons with disabilities, or is in the path of travel shall be 1' rise in 12' of horizontal run. Sec 1007.3a

2. The cross slope of ramp surfaces shall be no greater than 1:50. Sec 1007.3.1a

3. The width of ramps shall be as required for stairways and exits. Sec 1007.2a Fig 11B-38 & 39.

4. Pedestrian ramps serving primary entrnces to buildings having an occupant load of 300 or more shall have a minimum clear width of 60". Sec 1007.2.2a

5. Ramps serving Group R occupancies may be 36" clear width when the occupant load is 50 or less. Sec 1007.2.2a

6. All other pedestrian ramps seving primary entrances shall have a minimum width of 48". Sec 1007.2.2a

7. Landings shall be provided at athe top and bottom of each ramp. Sec 1007.4.1a Fig 11B-38 & 39. All ramp landings shall be level with maximum slope in any directions not to exceed 2%.

8. Intermediate landings shall be provided at intervals not exceeding 30" of vertical rise and at each change of direction. Sec 1007.4.1a Fig 11B-38 & 39.

9. Top landings shall be not less than 60" wide and shall have a length of not less than 60" in the direction of ramp run. Sec 1007.4.2a Fig 11B-38 & 39.

10. Doors in any position shall not reduce the minimum dimension of the ramp landing to less than 42" and shall not reduce the required width by more than 3" when fully open. Sec 1007.4.3a Fig 11B-38 & 39.

11. The width of the landing shall extend 24" past the strike edge of any door or gate for exterior ramps and 18" past the strike edge for interior ramps. Sec 1007.4.4a Fig 11B-39.

12. At bottom and intermediate landings, the width shall be at least the same as required for the ramp. Sec 1007.4.5a Fig 11B-38 & 39.

13. Intermediate landing at a change of direction in excess of 30 degrees and bottom landings shall have a dimentsio in the direction of ramp run of not less than 72" to accommodate the handrail extension. Sec 1007.4.6a Fig 11B-38 & 39.

14. Other intermediate landings shall have a dimension in the direction of ramp run of not less than 60". Sec 1007.4.7a Fig 11B-38.

15. Ramp landings are not considered in determining the maximum horizontal distance fo each ramp. Sec 1007.4.1a

16. Handrails are required on ramps that provide access if the ramp slope exceeds 1' rise in 20' of horizontal run, except that at exterior door landings, handrails are not required on ramps less than 6" rise or 12" in length. Sec 1007.5a.2

17. Handrails shall be placed on each side of each ramp, shall be continuous the full length of the rmap, shall be 34" to 38" above the ramp surface, shall extend a minimum of 1' beyond the top and bottom of the ramp, and the ends shall be returned. Sec 1007.5a Fig 11B-27(b) & (c).

18. The grip portion of handrails shall be not less than 1-1/4" nor more than 1-1/2", or the shape shall provide an equivalent grippins surface, and all surfaces shall be smooth with no sharp corners. Handrails shall not rotate within their fittings. Sec 1007.5a Fig 11B-36.

19. Handrails projecting from a wall shall have a space of 1-1/2" between the wall and the handrail. Sec 1007.5a Fig 11B-36.

20. Handrails may be located in a recess if the frecess is a maximum of 3" deep and extends at least 18" above the top of the rail. Sec 1007.5a Fig 11B-36.

21. Any wall or other surface adjacent to handrails shall be free of sharp or abrasive elements. Edges shall have a minimum radius of 1/8". Sec 1007.5a Fig 11B-36.

22. Where the ramp surfaces is not bounded by a wall or fence and the ramp exceeds 10' in length, the ramp shall comply with one of the following requirements:
Sec 1007.10 Fig 11B-27(b) & (c).

a. A guide curb a minimum fo 2" in height shall be provided at each side of the ramp

b. A wheel guide rail shall be provided, centered 3" ± 1" above the surface of the ramp.

23. Outdoor ramps and their approaches shall be designed and constructed so that water will not accumulate on walking surfaces. Sec 1007.3.2a

24. Handrails are required on ramps that provide the access of the ramp slope exceeds 1' rise in 20' of the horizontal run, except that at exterior door landing handrails are not required on ramp less than 6" rise or 12" in length.

D. CURB RAMPS

NOTE: Curb ramps shall be constructed at each corner of street intersections and where a pedestrian way crosses a curb. The preferred and recommended location for curb ramps is in the center of the crosswalk of each street corner. Where it is necessary to locate a curb ramp in the center of the curb return and the street surfaces are marked to identify pedestrian crosswalks, the lower end of the curb ramp shall terminate within such crosswalk areas. Sec 1127B.5.1 Fig 11B-19 through 11B-23.

1. Provide a curb ramp at . Sec 1127B.5.1

2. Curb ramps shall be aminimum of 4' in width and shall lie, generally, in a single sloped plane, with a minimum of surface warping and cross slope. Sec 1127B.5.2

3. The slope of curb ramps shall not exceed 1 vertical to 12 horizontal. Sec 1127B.5.3

4. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route, shall not exceed 1:20 within 4' of the top and bottom of the curb ramp. The slope of the famned or flared sides of curb ramps shall not exceed 1 unit vertical to 10 units horizontal. Sec 1127B.5.3

5. A level landing 4' deep shall be provided at the upper end of each curb ramp over its full width to permit safe egress from the ramp surface, or the slope of the fanned or flared sides of the curb ramp shal not exceed 1 vertical to 12 horizontal. Sec 1127B.5.4

6. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Sec 1127B.5.3

7. If diagonal (corner type) curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. The diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. If diagonal curb ramps have flared sides, they shall also have at least a 24" long segments of straight curb located on each side of the curb ramp and within the marked crossing. Sec 1127B.5.10

8. The surface of each curb ramp and its flared sides shall be stable, firm, and slip-resistant and shall be of contrasting finish from that of the adjacent sidewalk. Sec 1127B.5.6

9. All curb ramps shall have a grooved border 12" wide at the level surface of the sidewalk along the top and each side approximately 3/4" on center. All curb ramps constructed between the face fo the curb and the street shall have a grooved border at he level surface of the sidewalk. Sec 1127B.5.7

10. A curb ramp shall have a detectable warning that extends the full width and depth fo the curb ramp inside the grooved border when the ramp slope is less then 1 vertical to 15 horizontal. Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9" at the base tapering to 0.45" at the top, a height fo nomial 0.2", and a center-to-center spacing of nominal 2.35", in compliance with Figure 11B-23. "Nominal", as used here, shall be in accordance with Section 12-31-102, State Referenced Standards Code. The detectable warning shall contrast visually with adjoining surfaces, either light-on-dark or dark-on-light. The material used to provide contrast shall be an integral part of the walking surface. The domes may be constructed in a variety of methods, including cast-in-place or stamped, or may be part of a prefabricated surface treatment. Sec 1127B.5.8

11. Curb ramps shall be located or protected to prevent their obstruction by parked cars. Sec 1127B.5.9

E. PARKING

1. Provide disabled parking spaces as required by Table 11B-7. Sec 1129B.1

2. At facilities providing medical care and other services for persons with mobility impairments, parking spaces complying with Section 1129B shall be provided in accordance with Table 11B-7 except as follows: Sec 1129B.3

a. Outpatient units and facilities: 10% of the total number of parking spaces provided serving each such outpatient unit or facility; Sec 1129B.3.1

b. Units and facilities that specialize in treatment or services for persons with mobility impairments: 20% of the total number of parking spaces provided serving each such unit or facility. Sec 1129B.3.2

3. Each lot or parking structure where parking is provided for the public as clients, guests or employees, shall provide accessible parking as required by Section 1129B. Sec 1129B.1

4. Accessible parking spaces serving a particular building shall be located as near as practical to a primary entrance and on the shortest accessible route of travel from adjacent parking to an accessible entrance. Sec 1129B.1 & 1129B.4

5. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. Sec 1129B.1

6. In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located closest to the accessible entrances. Sec 1129B.1

7. Where single accessible parking spaces are provided, they shall be 14' wide and outlined to provide a 9' parking area and a 5' loading and unloading access aisle on the passenger side of the vehicle. Sec 1129B.4.1. Fig 11B-18B

8. When more than one accessible parking space is provided, in lieu of providing a 14' wide space for each parking space, two spaces can be provided within a 23' wide area lined to provide a 9' parking area on each side of a 5' loading and unloading access aisle in the center. Sec 1129B.4.1. Fig 11B-18A & C.

9. The minimum length of an accessible parking space shall be 18'. Sec 1129B.4.1. Fig 11B-18A, B, & C.

10. When less than 5 parking spaces are provided at buildings and facilities subject to these regulations, one shall be 14' wide and lined to provide a 9' parking area and a 5' loading and unloading area. However, there is no requirement that the space be reserved exclusively or identified for use by persons with disabilities only. Sec 1129B.2

11. One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96" wide minimum and shall be designated van accessible. All such spaces may be grouped on one level of a parking structure. Sec 1129B.4.2

12. Surface slopes of accessible parking spaces shall be the minimum possible and shall not exceed 1 unit vertical to 50 units horizontal in any direction. Sec 1129B.4.4

13. All entrances to and vertical clearances within parking structures shall have a minimum vertical clearance of 8'-2" where required for accessibility to accessible parking spaces. Sec 1130B

14. In each parking area, a bumper or curb shall be provided and located to prevent encroachment of cars over the required width of walkways. Sec 1129B.4.3. Fig 11B-18A, B, & C.

15. Pedestrian ways which are accessible to people with disabilities shall be provided from each such parking space to related facilities, including curb cuts or ramps as needed. Sec 1129B.4.3. Fig 11B-18A,B, & C.

16. Ramps shall not encroach into any parking space, with the exception of a transition ramp from a loading/unloading area to an adjacent sidewalk. The transition ramp shall be a minimum of 48" in width, a maximum o f60" in length, with a maximum slope of 1:12. Sec 1129B.4.3. Fig 11B-18A, B, & C.

17. Accessible parking spaces shall be so located that persons with disabilities are not compelled to wheel or walk behind parked other then their own. Ramp shall not encroach into any a Sec 1129B.4.3

18. Each parking space reserved for persons with disabilities shall be identified by a reflectorized sign permanently posted immediately adjacent to and visible from each stall or space, consisting of a profile view of a wheelchair with occupant in white on dark blue background. The sign shall not be smaller than 70 square inches in area and, when in a path of travel, shall be posted at a minimum height of 80" from the bottom of the sign to the parking space finished grade. Sec 1129B.5. Fig 11B-18A, B, & C.

19. Signs to identify accessible parking spaces may be centered on the wall at the interior end of the parking space at a minimum height of 36" from the parking space finished grade, ground or sidewalk. Sec 1129B.5

20. Van accessible parking spaces shall have an additional sign stating "Van-Accessible" mounted below the symbol of accessibility. Sec 1129B.5

21. An additional sign shall also be posted, in a conspicuous place, at each entrance to off-street parking facilities, or immediately adjacent to and visible from each stall or space. The sign shall be not less than 17" by 22" in size with lettering not less than 1" in height, which clearly and conspicuously states the following: Sec 1129B.5

"Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or license plates issued for persons with disabilities may be towed away at owner's expense. Towed vehicles may be reclaimed at or by telephoning ."

NOTE: Blank spaces are to be filled in with appropriate information as a permanent part of the sign.

22. The surface of each accessible parking space or stall shall have a surface identification duplicating either of the following schemes: Sec 1129B.5 Fig 11B-18A, B, & C.

a. By outlining or painting the stall or space in blue and outlining on the ground in the stall or space in white or suitable contrasting color a profile view depicting a wheelchair with occupant; or

b. By outlining a profile view of a wheelchair with occupant in white on blue background. The profile view shall be located so that it is visible to a traffic enforcement officer when a vehicle is properly parked in the space and shall be 36" high by 36" wide.

F. PASSENGER DROP-OFF & LOADING ZONES

1. When provided, passenger drop-off and loading zones shall be located on an accessible route of travel. Sec 1131B.1

2. Where provided, one passenger drop-off and loading zone shall provide an access aisle at least 60" wide and 20' long adjacent and parallel to the vehicle pull-up space. Such zones shall be located on a surface with a slope not exceeding 1 vertical in 50 horizontal. If there are curbs between the access aisle and the vehicle pull-up space, then a curb ramp shall be provided. Sec 1131B.2.1, Fug 11B-24.

3. Provide minimum vertical clearance of 9'-6" at accessible passenger loading zones and along at least one vehicle access route to such areas from site entrances and exits. Sec 1131B.2.2

4. Valet parking facilities shall provide a passenger loading zone and shall be located on an accessible route to the entrance of the facility. The parking space requirements of Section 1129B apply to facilities with valet parking. Sec 1131B.3

5. Where provided, provide bus stop pads 96" long (measured perpendicular to curb or road edge) and 60" wide (measured parallel to curb or road edge) to the maximum extent allowed by legal or site constraints. Bus stop pads shall connect to an accessible route. Newly constructed bus stop pads must provide a square curb surface between the pad and the road or other detectable warning. Bus stop pads shall be at the same slope as the roadway in the direction parallel to the roadway and a maximum 2% slope perpendicular to the roadway. Sec 1131B.4

6. Where provided, provide bus stop shelters installed so as to permit a wheelchair user to enter the shelter and access a clear floor area of 30" by 48", completely within the shelter. Bus stop shelters shall connect to an accessible route and to bus stop pads. Sec 1131B.4

G. PEDESTRIAN GRADE SEPERATIONS

1. Pedestrian ramps on pedestrian grade seperations shall comply with the requirements of Section 1007 for ramps. Sec 1128B

2. Where pedestrian grade seperations cross streets or other vehicular traffic ways, and where a street level crossing can reasonably and safely be used by persons with disabilities, there shall be provided conforming curb ramps and a usable pathway. Sec 1128B

3. Cross slopes of walking surfaces shall be the minimum possible and shall not exceed 1/4" per foot. The slope of any appreciably warped walking surface shall not exceed 1 vertical in 12 horizontal in any direction. Sec 1128B

H. ENTRANCES AND EXITS

NOTE: 1. Exits in excess of those required by Section 1114B.2.1 and which are more than 24" above grade are not required to be accessible. Such doors shall have signs warning that they are not accessible. Warning signs shall comply with Section 1117B.5. Sec 1001.9.1 Exc.2.
2. For the purposes of Title 24, the use of the term exit door applies to all doors that provide access, that is, entrances, passage doors, etc.

1. All entrances and all exterior ground floor exit doors to buildings and facilities shall be made accessible to persons with disabilities. Sec 1114B.1.3 & 1001.9.1

2. Revolving doors shall not be used as a required entrance for persons with disabilities. Sec 1004.6.4

3. During periods of partial or restricted use of a building or facility, the entrances used for primary access shall be accessible to and usable by persons with disabilities. Sec 1001.9.2

4. Exit doors shall be operable from the inside without the use of a key or any special knowledge or effort. Sec 1004.3

5. Manually operated edge-or surface-mounted fluch bolts and surface bolts are prohibited. WHen exit doors are used in pairs and approved automatic flush bolts are used, the door leaf having the automatic flush bolts shall have no doorknob or surface-mounted hardware. The unlatching of any leaf shall not require more than one operation. Sec 1004.3

6. Latching and locking doors that are hand-activated and which are in a path of travel shall be operable with a single effort by lever type hardware, panic bars, push-pull activating bars, or other hardware designed to provide passage without requiring the ability to grasp the opening hardware. Locked exit doors shall operate as above in egress direction. Sec 1004.14

7. Doors to individual hotel or motel units shall operate similarly to above, except that when bolt and unlatching operation is key operated from corridor or exterior side of unit door, large bow keys 2" (full bow) or 1-1/4" (half bow) shall be provided in lieu of lever type hardware on the corridor side. Seperate deadlock activation on room side of corridor doors in hotels or motels shall have lever handle or large thumb turn in an easily reached location. Sec 1004.14

8. Hand-activated door opening hardware shall be centered between 30" and 44" above the floor. Sec 1004.14

9. Every doorway which is located within an accessible pathe of travel shall be of a size as to permit the installation of a door not less than 3' in width and not less htan 6'-8" in height. When installed, exit doors shall be capable of opening so that the clear width of the exit is not less than 32", measured between the face of the door and the opposite stop. Sec 1115B.4 & 1001.9.1a. Fig 11B-5B & 11B-33.

10. Where a pair of doors is utilized, at least one of the doors shall provide a clear, unobstructed opening width of 32" with the leaf positioned at an angle of 90 degrees from its closed position. Sec 1001.9.1a, 1004.6.2

11. When an automatic door operator is utilized to operate a pair of doors, at least one of the doors shall provide a clear, unobstructed opening width of 32" with the door positioned at an angle of 90 degrees from its closed position. Sec 1001.9.1a, 1004.6.3

12. For hinged doors, the opening width shall be measured with the door positioned at an angle of 90 degrees from its closed position. Sec 1001.9.1a, 1004.6.1. Fig 11B-33(a).

13. Minimum maneuvering clearances at doors shall be as shown in Figure 11B-26. The floor or ground area within the required clearances shall be level and clear. Sec 1004.9.2.1.1a

14. There shall be a level and clear floor or landing on each side of a door. The level area shll have a length in the direction of door swing of at least 60" and the length opposite the direction of door swing of 48" as measured at right angles to the plane of the door in the closed position. Sec 1115B.4.2 1004.9a & 1004.9.2.1a Fig 11B-26.

15. The width of the level area on the side to which the door swings shall extend a minimum of 24"past the strike edge of the door for exterior doors and a minimum of 18" past the strike edge for interior doors. Sec 1115B.4.2 & 1004.9.2.2a Fig 11B-26.

16. The floor or landing shll be not more than 1/2" lower than the threshold of the doorway. Sec 1004.9.1a. Fig 11B-32.

17. The space between two consecutive door openings in a vestibule, serving other than a required exit stairway, shall provide a minimum of 48" of clear space from any door opening into such vestibule when the door is positioned at an angle of 90 degreed from its closed position. Doors in a series shall swing either in the same direction or away from the space between the doors. See Figure 11B-30 & 31 for design alternatives. Sec 1004.9.2

18. The bottom 10" of all doors except automatic and sliding shall have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. Where narrow frame doors are used, a 10" high smooth panel shall be installed on the push side of the door, which will allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. Sec 1004.15 Fig 11B-29.

19. Recessed doormats shall be adequately anchored to prevent interference with wheelchair traffic. Sec 1001.9.3. Fig 11B-25.

20. Maximum effort to operate doors shall not exceed 8-1/2 pounds for exterior doors and 5 pounds for interior doors, such pull or push effort being applied at right angles to hinged doors and at the center plane of sliding or folding doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the door may be increased to the maximum allowable by the appropriate administrative authority, not to exceed 15 pounds. Sec 1004.13

21. Where turnstiles and crowd control barriers are utilized in a facility for the purpose of providing fully controlled access, such as where an admission price is charged, a door or gate that is accessible to persons with disabilities shall be provided adjacent to each turnstile exit or entrance. This alternate passageway shall be maintained in an unlocked condition during business hours and the door or gate shall not activate a publicity audible alarm system. The door or gate may be latched where all gates are restricted and controlled by an attendant and a sign is posted stating "All gates are restricted and controlled by an attendant." The accessible door or gate shall provide the same use pattern. Where posts, rails, or other pedestrian controls are utilized to create croud control aisles or lanes, a minimum of one lane shall be accessible and shall provide a minimum aisle width not less than indicated in Figure 11B-5E (a) and (b) with 32" of clear opening. Sec 1004.8.1.2

22. Provide clear space of 12" past strike edge of th door on the opposite side to which the door swings of the door is equipped with both a latch and a closer.

23. When the door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take a least 3 seconds to move to a point 3" from the latch, measured to the landing edge of the door.

I. EGRESS & AREAS FOR EVACUATION ASSISTANCE

NOTE: Areas of evacuation assistance are not required in buildings or facilities having a supervised automatic sprinkler system. Sec 1114B.2.1 Exc. 2.

1. In buildings or portions of building required to be accessible, accessible means of egress shall be provided in the same number as required for exits by Chapter 10. Sec 1114B.2.1

2. When an exit required by Chapter 10 is not accessible, an area for evacuation assistance shall be provided and shall adjoin an accessible route of travel. Sec 1114B.2.1

3. An area for evacuation assistance shall be one of the following: Sec 1114B.2.1

a. A portion of a stairway landing within a smoke-proof enclosure, complying with Section 1005. Sec 1114B.2.2.1.1

b. A portion of an exterior exit balcony located immediately adjacent to an exit stairway when the exterior exit balcony complies with Section 1005. Openings to the exterior of the building located within 20' of the area for evacuation assistance shall be protected with fire assemblies having a 3/4-hour fire protection rating. Sec 1114B.2.2.1.2

c. A portion of a one-hour fire-resistive corridor complying with Sections 1005.7 & 1005.8 located immediately adjacent to an exit enclosure. Sec 1114B.2.2.1.3

d. A vestibule located immediately adjacent to an exit enclosure and constructed to the same fire-resistive standards as required by Sections 1005.7 & 1005.8. Sec 1114B.2.2.1.4

e. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the interior of the building by not less than one-hour fire-resistive door assemblies. Sec 1114B.2.2.1.5

f. When approved by the Building Official, an area or room which is separated from other portions of the building by a smoke barrier. Smoke barriers shall have a fire-resistive rating of not less than one hour and shall completely enclose the area or room. Soors in the smoke barrier shall be tight-fitting smoke- and draft-control assemblies having a fire-protection rating of not less than 20 minutes and shall be self-closing or automatic closing. The area or room shall be provided with an exit directly to an exit enclosure. When the room or area exits into an exit enclosure whcih is required to be of more than one-hour fire-resistive construction, the room or area shall have the same fire-resistive construction, including the same opening protection, as required for the adjacent exit enclosure. Sec 1114B.2.2.1.6

~~g. An elevator lobby complying with Section 1114B.2.4. Sec 1114B.2.2.1.7~~

4. Each area for evacuationa ssistance shall provide at least two accessible areas that are not less than 30" by 48". The area for evacuation assistance shall not encroach on any required exit width. The total number of such 30" by 48" areas per story shall be not less than one for every 200 persons of calculated occupant load served by the area for evacuation assistance. Sec 1114B.2.2.2

5. Each stairway adjacent to an area for evacuation assistance shall have a minimum clear width of 48" between handrails. Sec 1114B.2.2.3

6. A method of two-way communication with both visible and audible communication, shall be provided between each area of evacuation assistance and the primary entry. A button in the area of rescu assistance shall activate both a light in the area of rescue assistance indicating that rescue has been requested and a light at the primary entry indicating tant rescue is being requested. A button at the primary entry shall activate both a light at the primary entry and a light in the area of rescue assistance indicating that the request has been received.
Sec. 1114B.2.2.4

7. A telephone with controlled access to a public telephone system or another method of two-way communication shall be provided between each area of refuge and the primary building entry. The fire department may approve a location other than the primary entry. Sec 1114B.2.2.4

8. Each area for evacuation assistance shall be identified by a sign which states AREA FOR EVACUATION ASSISTANCE and the International Symbol of Accessibility. The sign shall be illuminated when exit sign illumination is required. In each area for evacuation assistance, instructions on the use fo the area under emergency conditions shall be posted adjoining the two-way communication system. Sec 1114B.2.2.5

9. Within a building of any height or occupancy constructed in accordance with the requirements of Sections 403.1 through 403.10, an area for evacuation assistance may be located in the elevator lobby (high-rise alternative) when: Sec 1114B.2.4

a. The area for evacuation assistance complies with the requirements for size, two-way communication, and identification as specified in Section 1114B.2.2.4; and

b. Elevator shafts and adjacent lobbies are pressurized as required for smoke-proof enclosures in Section 1009. Such pressurization system shall be activated by smoke detectors on each floor located in a manner approved by the building official. Pressurization equipment and its ductwork within the building shall be separated form other portions of the building by a minimum two-hour fire-resistive construction.

J. STAIRWAYS

1. Stairways shall have handrails on each side, and every stairway required to be more than 88" in width shall be provided with not less than one intermediate handrail for each 88" of required width. Intermediate handrails shall be spaced approximately equally across the entire width of the stairway. Sec 1006.9.1a

2. Handrails shall be 34" to 38" above the nosing of teh treads. Sec 1006.9.2.1a. Fig 11B-35.

3. Handrails shall extend a minimum of 12" beyond the top nosing and 12" plus the tread width beyond the bootom nosing. Sec 1006.9.2.2a. Fig 11B-35 & 37.

4. Where the extension of the handrail in the direction of the stair run would create a hazard, the termination of the extension shall be made either rounded or returned smoothly to the floor, wall, or post. Where the stairs are continuous from landing to landing, the inner rail shall be continuous and need not extend out into the landing. Sec 1006.9.2.4a. Fig 11B-37.

5. Ends shall be returned or terminate in new posts or safety terminals. Sec 1006.9.2.3a. Fig 11B-35 & 37.

6. The handgrip portion fo handrails shall be not less than 1-1/4" nor more tha 1-1/2" in cross sectional nominal dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top and sides) shall be uninterrupted by newel posts, other construction elements, or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Edges shall have a minimum radius of 1/8". Sec 1006.9.2.6a1. Fig 11B-36.

7. Handrails projecting from a wall shall have a space of 1-1/2" between the wall and the handrail. Handrails may be located in a recess if the recess is a maximum of 3" deep and extends at least 18" above the top of the rail. Handrails shall not rotate within their fittings. Sec 1006.9.2.5a.1 Fig 11B-36.

8. The upper approach and the lower tread of each stair shall be marked by a strip of clearly contrasting color at least 2" wide placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of material that is at least as slip resistant a sthe other treads of the stair. Sec 1006.16.1. Fig 11B-35.

9. Where stairways occur outside a building, the upper approach and all treads shall be marked by a strip of clearly contrasting color at least 2" wide and placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of a material that is at least as slip-resistant as the other treads of the stair. A painted strip shall be acceptable. Sec 1006.16.1. Fig 11B-35.

10. All tread surfaces shall be slip-resistant. Weather exposed stairs and their approached shall be designed so that water will not accumulate on walking surfaces. Treads shall have smooth, rounded, or chamfered exposed edges, and no abrupt edges at teh nosing (lower front edge). Sec 1006.16.2.1b & 1006.16.2.1.1. Fig 11B-35.

11. The nosing shall not project more than 1-1/2" past the face of the riser below. Sec 1006.16.2.2. Fig 11B-35.

12. Open risers are not permitted. On any given flight of stairs, all steps shall have uniform riser height and uniform tread widths consistent with 1006.3. Stair treads shall be no less than 11" deep, measured from riser to riser. Risers shall be sloped or the underside of the nosing shall have an angle not less than 60 degrees from the horizontal. Sec 1006.16.3B. Fig 11B-35.

13. Approved stairway identification signs shall be located at each floor level in all enclosed stairways in buildings four or more stories in height, two or more stories in height for DSA/AC requirements. The sign shall identify the stairway, indicate whether there is roof access, the floor level, and the upper and lowere terminus of the stairway. The information shall be presented using raised Arabic numerals and raised braille symbols which conform to Section 1117B.5.2. The sign shall be located approximately 5' above the floor landing in a position which is readily visible when the door is in the open or closed position or as required by DSA/AC the sign shall be located approximately 5' above the floor landing immediately adjacent to the door on the strike side. Signs shall comply with the requirements of UBC Std. No. 10-2. Sec 1006.16

14. The orientation of at lest one handrail shall be in the direction of the run of the stairs nosing and, and shall not reduce the minimum required with of the stairs.

K. ELEVATORS

NOTE: In buildings two or more stories in height, served by an elevator, or a building served by an elevator required by Table No. 10-A, or a building served by an elevator required for accessibility by Section 101.17, all elevators provided shall accommodate a wheelchair. Sec 3003.4.1a

1. Passenger elevators shall be located near a major paths of travel and provision shall be made to assure that they remain accessible and usable at all times the building is occupied. Sec 3003.4.17

2. The car inside shall allow for the turning of a wheelchair. The minimum clear distance between wall or between wall and door, excluding return panels, shall be not less than 80" by 54" for center-opening doors, and 68" by 54" for side-slide opening doors. Minimum distance from wall to return panel shall be not less than 51". Sec 3003.4.7a. Fig 30-A.

3. Minimum clear width for elevator doors shall be 36". Sec 3003.4.4. Fig 30-A.

4. A handrail shall be provided on one wall of the car, preferable the rear. The rails shall be smooth and the inside surface at least 1-1/2" clear of the walls at a nominal height of 32" above the floor. Sec 3003.4.12. Fig 30-B.

5. The centerline of elevator floor buttons shall be no higher than 54" above the finished floor for side approach and 48" for front approach. Sec 3003.4.7a. Fig 30-B.

6. Floor buttons shall be provided with visual indicators to shaow when each call is registered. THe visual indicators shall be extinguished when eahc call is answered. Sec 3003.4.7a.

7. Except for photo electric tube bypass switches, emergency controls, including the emergency stop and alarm, shall be grouped in or adjacent to the bottom of the panel and shall be no lower than 2'-11" from the floor. For multiple controls only, one set must comply with these height requirements. Sec 3003.4.7a.

8. The centerline of the hall call buttons shall be no higher than 42" above the finished floor. The buttons shall be a minimum of 3/4" in size and shall be raised 1/8" +- 1/32" above the surrounding surface. Visual indication shall be provided to show each call registered and extinguished when answered. Objects adjacent to and below hall call buttons shall not project more than 4" from the wall. Sec 3003.4.9a. Fig 30-C.

9. The emergency telephone handset shall be positioned no higher than 4' above the floor, and the handset cord shall be a minimum of 2'-5" in length. Sec 3003.4.7a.

10. If the telephone system is located in a closed compartment, the compartment door hardware shall be lever type conforming to the provisions of Section 1004.3, Type of Lock or Latch. Emergency Intercommunication shall not require voice communication. Sec 3003.4.7a

11. A car position indicator shall be provided above the car operating panel or over the opening of each car to show the position of the car in the hoistway by illumination of the indication corresponding to the landing at which the car is stopped or passing. Sec 3003.4.9

REVISIONS			
NO.	DATE	ITEM	BY
1	11-22-04	LAST DISTRIBUTION CITY LAR&P REVIEW	JCR
2	4-02-05	REC. & PARKS REVIEW	JCR
3	5-02-05	BID & PLAN CHECK	JCR
4	09-20-07	REC. & PARKS REVISION	JCR
5	06-30-09	PARK REVISIONS	JCR
6	12-9-09	PARK REVISIONS	JCR

The stamping of this set of plans and specifications shall not be held to permit or to be an approval of the violation of any provisions of federal, state and local laws and ordinances related to accessibility to public accommodations.

DISABLED ACCESS SECTION

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JERRY C. RODIN
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12/31/13 EXP. DATE
SIGNATURE
STATE OF CALIFORNIA

SEP 26 2012

ADA-1

06/4/2012

RA-2002-005

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12. The car position indicator shall be on a contrasting color background and a minimum of 1/2" in height. Sec 3003.4.9

13. An audible signal shall sound to tell passengers taht the car is stopping or passing a floor served by teh elevator. A special button located with emergency controls may be provided. Operation of the button will activate an audible signal only for the desired trip. Sec 3003.4.9

14. The minimum illumination at the car controls, threshold, and the landing when tha car and landing dooors are open shall not be less han 5 foot-candles. Sec 3003.4.13

15. Identification for the visually impaired shall be as follows: Sec 3003.4.8a. Fig 30-B.

a. Passenger elevator car controls shall have a minimum dimension of 3/4" and shall be raised 1/8" +- 1/32" above the surrounding surface.

b. Control buttons shall be illuminated, shall have square shoulders, and shall be activated by a mechanical motion that is detectible.

c. All control buttons shall be designed by a 5/8" minimum, Arabic numeral, standard alphabet character, or standard symbol immediately to the left of the control button.

d. A Braille symbol shall be located immediatley below the numeral, character, or symbol.

e. A minimum clear space of 3/8" or other suitable means of separation shall be provided between rows or control buttons.

f. The raised characters shll be white on a black background.

g. Controls and emergency equipment identified by raised symbols shall include, but not be limited to, door open, door close, alarm bell, emergency stop, and telephone.

h. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation.

16. A visual and audible signal shall be provided at each hoistway entrance indicating to the prospective passenger the car answering and the call and its direction of travel as follows: Sec 3003.4.15a Fig 30-C.

a. The visual signal for each direction shall be a minimum of 2-1/2" high by 2-1/2" wide, and visible from the proximity of the hall call button.

b. The audible signal shall sound once for the up direction and twice for the down direction or of a configuration which distinguishes between up and down elevator travel.

c. The center line of the fixture shall be located a minimum of 6' in height from the lobby floor.

17. The use of in-car lanterns, located in or on the car door jambs, visible from the proximity of the hall call buttons and conforming to all other requirements fo Section 3003.1.14 will be acceptable. Sec 3003.4.15a

18. The use of arrow shapes is preferred for visible signals. Sec 3003.4.15a. Fig 30-C.

19. Passenger elevator landing jambs on all elevator floors shall have the number fo the floor on which the jamb is located designated by raised Arabic numerals which are a minimum of 2" in height and raised Braille symbols which conform to Section 1117B.5.2 located approximately 5' above the floor on the jamb panels on both sides of the door so that they are visible form within the elevator. Raised Braille symbols shall be placed directly to the left of the corresponding raised Arabic numerals. The raised characters shall be on a contrasting background. Sec 3003.4.16a Fig 30-C.

20. The clearance between the car platform sill and edge of the hoistway landing shll be no greater than 1-1/4". Sec 3003.4.2

21. Power-operated horizontally sliding car and hoistway doors opened and closed by automatic means shall be provided. Sec 3003.4.3a

22. Doors closed by automatic means shall be provided with a door reopening device which will function to stop and reopen a car door and adjacent hoistway door in case the car door is obstructed while closing. This reopening device shall also be capable of sensing an object or person in the path of the closing door without requiring contact for activation at a normal 5" and 29" above the floor. Door reopening devices shall remain effective for a period of not less than 20 seconds. After such an intercal the doors may close in accordance with requirements of ANSI 17.1-86 of the American Society fo Mechanical Engineers (ASME) document ASME 17.1-1990. Sec 3003.4.5. Fig 30-C.

23. The minimum acceptable time from notification that a car is answering a call (lantern and audible signal) until the doors of the car start to close shall be calculated in accordance with Section 3003.4.6.1a. Sec 3003.4.6.1a

24. For cars with in-car lanterns, the total time, T, as calculated in accordance with Section 3003.4.6.1, begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded. Sec 3003.4.6.1a. Fig 30-D.

25. The minimum acceptable time for doors to remain fully open shall not be less than 5 seconds. Sec 3003.4.6.1a

L. SPECIAL ACCESS (WHEELCHAIR) LIFTS

NOTE: Special access (wheelchair) lifts may be provided between levels, in lieu of passenger elevators, when the vertical distance between landings, structural design, and safeguards are as allowed by the State of California, Division of the State Architect, Access Compliance Section, the Department of Industrial Relations, Division of Occupational Safety and Health, and any applicable safety regulations of other administrative authorities having jurisdiction. Sec 3008.1

1. Lifts shall be designed and constructed to facilitate unassisted entry, operation, exit from the lift, and shll comply with Chapter 11B and ASME A17.1, Safety Code for Elevators and Escalators, Section XX, 1990. Sec 3008.1

2. Lifts may be utilized as part of an accessible route only for the following conditions: Sec 3008.1

a. To provide an accessible route to a prforming area in an assembly occupancy or to a speaking area or similar place (such as a dias or "head table") in an assembly or Group B Occupancy. Sec 3008.1.1

b. To comply with the wheelchair viewing position line-of-sight and dispersion requirements fo Chapter 11B. Sec 3008.1.2

c. To provide access to incidental occupiable spaces and rooms which are not open to the general public and which house no more than 5 persons, including but not limited to equipment control rooms and projection booths. Sec 3008.1.3

d. To provide access where existing site constraints or other constraints make use of a ramp or an elevator infeasible. Sec 3008.1.4

NOTE: Section 3008.1, Exception 3 does not limit the use of a special access (wheelchair) lift to the four conditions listed above when the lift is being installed as part of an accessible route for additions or alterations.

3. Lifts shall have a rise of not more than 5'. Sec 3008.1

4. The lift platform or support shall be of sufficient size to accommodate large motorized wheelchairs per Chapter 11B and shall have a rated capacity of not less than as required by ASME A17.1-Section XX,1990. Sec 3008.1.4.1

NOTE: Level and clear floor areas or landing as specifies in this section shall be part of "Path of Travel" requirements. Sec 3008.1.4.10.2

5. There shall be a level and clear floor area or landing at each floor or level served by special access lifts to allow safe access to and exiting from the lift platform. Sec 3008.1.4.10

6. In new construction, the minimum size of landings shall be 60" by 60". Other dimensions may be substituted where it can be demonstrated that a person using a wheelchair measuring 30" by 48" can enter and operate the lift safely. Sec 3008.1.4.10.1

7. The top landing shall be equipped with a device, door, or gate 42" in height. Each door or gate shll be equipped with both mechanical and electrical contacts which prevent operation of the platform unless they are properly closed. Sec 3008.1.4.5

8. "Call-Send" controls shall be provided at each landing in compliance with Chapter 11B. Where platform lifts are used to provide barrier-free path of travel requirements, they shall facilitate unassisted entry, operation, and exit from the lift. Sec 3008.1.4.6

9. Solid, smooth enclosures provided as per ASME 17.1 shall be provided for the platform lift, which provides a reasonable degree of safety for persons with disabilities using the lift and others exposed to the lift, except as provided in Section 3008.1.4.7. Provide installation with safety devices that may be required per Sections 3008.1.4.5 through 3008.1.4.7. Sec 3008.1.4.4

10. When the enclosure required in Section 3008.1.4 is not provided because the lift serves only two landings, the underside of the lifting platform shall be equipped with a safety pan cover which will automatically shut off the lifting device should any obstruction under the platform interfere with its downward travel. The platform shall be provided with a 42" high solid gate at teh bottom landing entrance. A smooth vertical wall or fascia shall be provided from the sill of the top landing to the bottom landing level. Sec 3008.1.4.4

11. A pit may be provided to permit the platform to stop fluch with the bottom leanding level (which shall be protected by a runway enclosure that extends a minimum of 42" above the top landing level), or in lieu of a pot, a ramp shall be provided which does not exceed 1 unit vertical in 12 units horizontal run. The surface of the ramp shall have a non-skid surface. Sec 3008.1.4.8

12. The lift assembly shall be securely supported to maintain the platform in a level position and to prevent the loosening or displacement of any portion of the unit. All portions of the lift machinery shall be protected from intrusion of water. Sec 3008.1.4.3

13. The rated speed of the platform shall not exceed 20 feet per minute and the operating control shall be the constant pressure type designed so that it can be easily operated by a person with a disbility. A push-bar control designed for use by persons with disabilities or a control that provides equal usability shall be provided. Sec 3008.1.4.2

14. When the lift is hydraulically operated or is of the electric-hydraulic type, releveling switchers shall be provided to keep the platform level with the landing at which it has been parked. Sec 3008.1.4.9

M. CORRIDORS & AISLES

NOTE: For the purpose fo Title 24, the term corridor shall include exterior exit balconies and any covered or enclosed exit passageway, including walkways, tunnels and malls. Partitions, rails, counters, and other similar space dividers not over 5'-9" in height above the floor shall not be construed to form corridors. Sec 1005.1

1. Every corridor serving an occupant load of 10 or more shall not be less than 44" in width. Sec 1005.2.1a

2. Corridors serving an occupant load of less than 10 shall not be less than 36" in width. Sec 1005.2.1a

3. Corridors which are located on an accessible route and exceed 200' in length shall have a minimum clear width of 60". If an accessible route has less than 60" clear width, then passing spaces at least 60" by 60" shall be located at reasonable intervals not to exceed 200'. A T-intersection of two corridors or walks is an acceptable passing place. Sec 1005.2.2a Fig 11B-34.

4. Circulation aisles and pedestrian ways shall be sized according to functional requirements and in no case shall be less than 36" in clear width. Sec 1105B.3.6.1 & 1110B.2.1

N. FLOORS & LEVELS

NOTE: Level area is defined as "a specified surface that does not have a slope in any direction exceeding 1/4 inch in one foot from the horizontal (2.083% gradient)". Sec 213.1(a)

1. In buildings and facilities, floors of a given story shall be a common level throughout, or shall be connected by pedestrian ramps, passenger elevators, or special access lifts. Sec 1120B.1

2. Ground and floor surfaces along accessible routes and in accessible rooms and spaces, including floors, walks, ramps, stairs, and surb ramps, shall be stable, and slip-resistant. Sec 1124B.1 & 1120B.2

3. Changes in level up to 1/4" may be vertical and without edge treatment. Sec 1124B.2 Fig 11B-5E(c).

4. Changes in level between 1/4" and 1/2" shall be accomplished by means of a ramp no steeper than 1 vertical to 2 horizontal. Sec 1124B.2. Fig 11B-5E(d).

5. If carpet or carpet tile is used on a ground or floor surface, it shall be securely attached+ have a firm cushion, pad, or backing or no cushion or padt and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile height shall be 1/2". Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 1124B.2. Sec 1124B.3. Fig 11B-7B.

O. SANITARY FACILITIES (GENERAL)

NOTE: Fully dimension all sanitary facilities and fixtures, including floor dimensions and fixture elevation dimensions.

1. Sanitary facilities that serve buildings, facilities or portions of buildings or facilities that are required to be accessible to persons with disabilities are required to be accessible. Sec 1115B.1

2. Where seperate facilities are provided for non-disabled persons of each sex, seperate facilities shall be provided for persons with disabilities of each sex also. Where unisex facilites are provided for persons without disabilities, at least one unisex facility shall be provided for persons with disabilities within close proximity to the non-accessible facility. Sec 1115B.2

3. Where facilities are to be used solely by small children, the specific heights may be adjacent to meet their accessibility needs. See Table 15B-5.1 for suggested mounting heights. Sec 1115B.3

NOTE: The division of the State Architect, Office of Regulation Services, recommends the following dimensions as adequately serving the needs of children in projects under our jurisdiction. These recommendations are based on the federal "Recommendations for Accessibility for Children in Elementary School" and other recognized publicatons on access for children.

A= adult dimensions (age 12 and over)
E= elementary dimensions
K= kindergarten and pre-school dimensions

4. Doorways leading to men's sanitary facilities shall be identified by an equilateral triangle 1/4" thich with edges 12" long and a vertex pointing upward. Women's sanitary facilities shall be identified by a circle 1/4" thick and 12" in diameter. Sec 1115B.5

5. Unisex sanitary facilities shall be identified by a circle 1/4" thick, 12" in diameter, with a 1/4" thick triangle superimposed on the circle and within the 12" diameter. Sec 1115B.5

6. Geometric (circle & triangle) symbols on sanitary facility doors shall be centered on the door at a height of 60" and their color and contrast shall be distincly different from the color and contrast of the door. Sec 1115B.5

NOTE: See also Section 1117B.5.9 for additional signage requirements applicable to sanitary facilities.

P. SINGLE ACCOMMODATION SANITARY FACILITIES

NOTE: Single accommodation sanitary facility is defined as " a room that has not more than onw of each type of sanitary fixture, is intended for use by only onw person at a time, has no partition around the toilet, and has a door that can be locked on the inside by the room occupant". Sec 220.12

1. There shall be sufficient space in the toilet room for a wheelchair measuring 30" wide by 48" long to enter the room and permit the door to close. Sec 1115B.7.2

2. There shall be in the room a clear floor space of at least 60" in diameter, or a T-shaped space complying with Figures 11B-12(a) or (b). No door shall encroach into this space for more than 12" except for the panel door to any water closet compartment if there is one. Sec 1115B.7.2 Fig 11B-1A

3. The water closet shall be located in a space which provides a minimum 28" wide clear space from a fixture or a minimum 32" wide clear space from a fixture or a minimum 32" wide clear space from a wall at one side. The other side shall provide 18" from the centerline of the water closet to the wall. A minimum 48" clear space shall be provided in front of the water closet. Sec 1115B.7.2 Fig 11B-1A

4. All doors, fixtures and controls shall be on an accessible route with a minimum clear width of 36" except at doors. If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Figure 11B-5E. Sec 1115B.7.2

Q. MULTIPLE ACCOMMODATION SANITARY FACILITIES

NOTE: Multiple accommodation sanitary facility is defined as "a room that has more than one santiary fixture, is intended for the use of more than one person at a time, and which usually is provided with privacy compartments or screens shielding some fixtures form view". Sec 214.13

1. A clear space measured from the floor to a height of 27" above the floor, within the sanitary facility room, of sufficient size to inscribe a circle with a diameter of 5'-0"

2. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE SEC. 1115B.7.1

3. A water closet fixture located in a compartment shall provide a minimum 28" wide clear space from a fixture or a minimum 32" wide clear space from a wall at one side of the water closet. The other side of the water closet shall provide 18" from the centerline of the water closet to the wall. Grab bar shall not project more than 3" into these clear spaces

4. A minimum" long clear space shall be provided in front of the water closet if the compartment has an end opening door (facing the water closet) and a minimum 60" long clear space shall be provided in front of the water closet if the compartment has a door located at the side. Grab bars shall not project more than 3" into these clear spaces. Sec 1115B.7.1.2 Fig 11B-1A & B.

5. Water closet compartments shall be equipped with a door that has an automatic-closing device, and shall have a clear, unobstructed opening width of 32" when located at the end and 34" when located at the side with the door positioned at an angle of 90 degrees from its closed position. Sec 1115B.7.1.3 Fig 11B-1A & B.

6. When standard compartment doors are used, with a minimum 9" clearance for footrests underneath and a self-closing device, clearance at the strike edge as specified in Section 1004.9.2.2 is not required. Sec 1115B.7.1.3

7. The inside and outside of the compartment door shall be equipped with a loop or U-shaped handle immediately below the latch. The latch shall be flip-over style, sliding, or other hardware not requiring the user to grasp or twist. Sec 1115B.7.1.3

8. Except for door opening widths and door swings, a clear, unobstructed access not less than 44" shall be provided to water closet compartments designed for use by prsons with disabilities and the space immediately in front of a water closet compartment shall be not less than 48" as measured at a right angle to compartment door in its closed position. Sec 1115B.7.1.3. Fig 11B-1B.

9. Where six or more stalls are provided within a multiple accommodation toilet room, in addition to the standard accessible stall required above, at least one additional stall shall be provided with a width of 36" with an outward swinging self-closing door and parallel grab bars complying with Sections 1115B.8.2 through 1115B.8.4. Sec 1115B.7.1.4

R. SANITARY FACILITY FIXTURES & ACCESSORIES

1. The height of accessible water closets shall be a minimum of 17" and a maximum of 19" measured to the top of a maximum 2" high toilet seat, except that 3" seats shall be permitted only in alterations where the existing fixtures is less than 15" high. Sec 1502

2. A clear floor space 30" by 48" shall be provided in front of a lavatory to allow a forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend into knee and toe space underneath the lavatory. Sec 1115B.9.1.1. Fig 11B-1B.

3. Lavatories, when located adjacent to a side wall or partition shall be a minimum of 18" to the centerline of the fixture. Sec 1504.1. Fig 11B-1A.

4. All lavatories that are designated to be accessible shall be mounted with the rim or counter edge no higher than 34" above the finished floor and with a vertical clearance measured from the bottom of the apron or outside bottom edge of the lavatory of 29", reducing to 27" at a point located 8" back from the front edge. Knee clearance below the lavatory shall extend a minimum of 30" in width by 17" in depth. Toe clearance shall be the same width and shall be a minimum of 9" high from the floor and a minimum of 17" deep from the front of the lavatory. Sec 1504.1

5. Hot water and drain pipes accessible under lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories. Sec 1504.2

6. Where urinals are provided, at least one shall have a clear floor space 30" by 48" in front of the urinal to allow forward approach. Sec 1115B.9.4

7. Urinals shall be floor mounted or wall hung. Where one or more wall hung urinals are provided, at least one with a rim projecting a minimum of 14" from the wall and at a maximum of 17" above the floor shall be provided. Sec 1503.1

8. Controls for water closet flush valves shall be mounted on the wide side of toilet areas. Sec 1502

9. Water closet and urinals flush valve controls, and faucet and operating mechanism controls, shall be operable with one hand, shall not require tight grasping, pinching, or twisting of the wrist, and shall be mounted no more than 44" above the floor. Sec 1502, 1503.2, & 1504.3

10. The force required to activate water closet and urinal flush valve controls, and faucet and operating mechanism controls, shall be no greater than 5 lbf. Electronic or automatic flushing controls are acceptale and preferable. Sec 1502, 1503.2, & 1504.3

11. Self-closing faucet control valves are allowed if the faucet remains open for at least 10 seconds. Sec 1504.3

12. Mirrors shall be mounted with the bottom edge no higher than 40" from the floor. Sec 1115B.9.1.2

13. Where towel, sanitary napkins, waste receptacles, and other similar dispensing and disposal fixtures are provides, at least onw of each typw shall be located with all operable parts, including coin slots, within 40" from the finished floor. Sec 1115B.9.2

14. Toilet tissue dispensers shall be located on the wall within 12" of the front edge of the toilet seat and no lower than 19" from the floor. Dispensers that control delivery or that do not permit continuous paper flow shall not be used. Sec 1115B.9.3. Fig 11B-1A.

15. Toilet room floors shall have a smooth, hard, non-absorbent surface such as Portland cement, concrete, ceramic tile or other approved material which extends upward onto the walls at least 5". Walls within water closet compartments and walls within 24" of the front and sides of urinals shll be similarly finished to a height of 48" and except forstructural elements, the materials used in such walls shall be a type which is not adversely affected by moisture. Sec 1115B.9.5.

S. GRAB BARS

1. Grab bars shall be located on each side, or on one side and the back of the accessible toilet stall or compartment. Sec 1115B.8.1. Fig 11B-1AB & C.

2. Grab bars at the side shall be at least 42" long with the front end positioned 24" in front of the water closet stool and with the back end positioned no more than 12" from the rear wall. Grab bars at hte back shall be not less than 36" long. Sec 1115B.8.1. Fig 11B-1A, B, & C.

3. Grab bars shall be securely attached 33" above and parallel to the floor, except that where a tank-type toilet is used which obstructs placement at 33", the grab bar may be as high as 36". Sec 1115BN.8.1. Fig 11B-1A.

4. The diameter or width of the gripping surfaces of a grab bar shall be 1-1/4" to 1-1/2" or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bars shall be 1-1/2". Sec 1115B.8.2. Fig 11B-1C.

5. The strucural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specifications: Sec 1115B.8.3.

a. Bending stress in a grab bar or seat induced by the maximum bending moment from the application of a 250-lb point load shall be less than the allowable stress for the material of the grab bar or seat. Sec 1115B.8.3.1

b. Shear stress induced in a grab bar or seat by the application of a 250-lb point load shall be less htan the allowable shear stress for the material of the grab bar or seat, and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall not exceed the allowable shear stress. Sec 1115B.8.3.2

c. Shear force induced in fastener or mounting devices from the application of a 250-lb point load shall be less than the allowable lateral oad of either the fastener or mounting device or the supporting structure, whichever has the smaller allowable load. Sec 1115B.8.3.3

d. Tensile force induced in a fastener by a direct tension force of a 250-lb point load, plus the maximum moment from the application of a 250-lb point load, shall be less than the allowable withdrawal load between the fastener and supporting structure. Sec 1115B.8.3.4

e. Grab bars shall not rotate within their fittings. Sec 1115B.8.3.5

6. A grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8". Sec 1115B.8.4.

T. BATHING FACILITIES & LOCKERS

1. Where facilities for bathing are provided for the public, clients, or employees, including showers, bathtubs, or lockers, at least one such facility, and not less than 1% of all facilities shall be made accessible. Sec 1115B.6

2. Provide a clear floor space with minimum dimensions of adjacent to bathtub. Sec 1115B.6.1.1 Fig 11B-8.

3. Provide grab bars for bathtubs which comply with Section 1115B.8.2 through 1115B.8.4. Sec 1115b.6.1.3. Fig 11B-8 & 9B.

4. Bathtubs shall be provided with a shower spray unit having a hose at least 60" long that can be used as a fixed shower head or as a handheld shower. Sec 1115B.6.1.5 & 1506. Fig 11B-9B.

5. Provide an in-tub seat or a seat at the head end of bathtubs which is mounted securely, does not slip during use, and is designed, including attachments, to meet the requirements of Section 1115B.8.3. Sec 1115B.6.1.2. Fig 11B-8 & 9B

6. Faucets and other controls for bathtubs shall be located between top of tub and grab bar, shall be operable with one hand, and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. Sec 1115B.6.1.4. Fig 11B-9B

7. If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclosures on bathtubs shall not have tracks mounted on their rims. Sec 1115B.6.1.6. & 1506

8. Showers shall beeither 60" minimum in width between wall surfaces and 30" minimum id depth with a full opening width on the long side, or 42" in width between wall surfaces and 48" minimum in depth with an entrance opening of 42". As an alternative, showers 60" minimum in width may be 36" minimum in depth as long as the entrance opening width is a minimum 36". Sec 1115B.6.2.1. Fig 11B-2A.

9. Provide grab bars for compartment showers which comply with Section 1115B.8. Sec 1115B.6.2.4.2. Fig 11B-2A.

10. When a threshold or recessed drop is permitted, at compartment showers it shall be a maximum of 1/2" in height and shall be beveled or sloped at an angle not exceeding 45 degrees from the horizontal. Sec 1115B.6.2.2. Fig 11B.

11. The maximum slope of the floor shall be 2% in any direction. Where drains are provided, grate openings shall be a maximum of 1/4" and located flush with the floor surface. The drain shall be located within 6" pf the rear wall. Sec 1115B.6.2.4.4

12. The following compartment shower accessories shall be provided: Sec 1115B.6.2.4.5. Fig 11B-2A.

a. A folding seat located within 27" of the controls mounted 18" above the floor, and with a minimum space of 1" and maximum space of 1-1/2" allowed between the edge of the seat and any wall. When folded, the seat shall not extend more than 6" from the mounting wall. Fig 11B-2A.

b. Grab bars located on walls adjacent to and opposite the seat. Grab bars shall also comply with the diameter, loading, and projection requirements of sections 1115B.8.2, 1115B.8.3, and 1115B.8.4.

c. Grab bars shall be mounted between a minimum of 33" and a maximum of 36" above the shower floor with an L-shaped grab bar mounted on walls opposite and adjacent to the front edge of the seat, but not extended to include that portion of wall over the seat. Fig 11B-2A or 11B-2B

d. When a soap dish is provided, it shall be located on the control wall at a maximum height of 40" above the shower floor, and within reach limits from the seat.

13. Showers shall be finished with a smooth, hard, non-absorbaent surface such as Portland cement, concrete, ceramic tile or other approved material to a height of not less than 70" above the drain inlet. Materials other than structural elements used in such walls shall be of a type which is not adversely affected by moisture. Sec 1115B.9.6.

14. A flexible shower spray unit with a hose at least 60" long shall be provided within reach range of the seat at a distance not to exceed 27" horizontally measured from the rear seat edge to the centerline of the mounting bracket. This unit shall be mounted at a maximum height of 48" (plus or minus 1") above the shower floor. Sec 1115B.6.2.4.2, 1505.2 Fig 11B-2B.

15. Water controls for showers of a single lever design shall be located on the wall of the compartment adjacent to the seat and mounted at 40" (plus or minus 1") above the shower floor, and the centerline of the ocntrols shall be within a reach range of no less than 18" and no more than 24" from the rear edge of the seat. Sec 1115B.6.2.4.1. Fig 11B-2B.

16. Where, within the same functional area, two or more accessible showers are provided, there shall be at least one shower constructed opposite hand from the other or others (i.e. one left hand control vs. right hand control). Sec 1505.4

17. Except within guest rooms and suites in hotels, motels, and similar transient lodging establishments, where accessible shower facilities are provided in areas subject to excessive vandalism, in lieu of providing the fixed flexible hose, two wall mounted shower heads shall be installed. Each shower head shall be installed so that it can be operated independently of the other and shall have swivel angle adjustments, both vertically and horizontally. One shower head shall be located at a height of 48" (plus or minus 1") above the floor. Sec 1115B.6.2.4.3 & 1505.3

18. Enclosures, when provided for shower stalls, shall not obstruct transfer from wheelchairs onto shower seats. Sec 1115B.6.2.5

19. Where open showers are provided, the shower for persons with disabilities shall be located in a corner with an L-shaped grab bar extending along two adjacent walls or with two grab bars, a minimum of 24" in length and a minimum of 36" in length, with the 36" grab bar located on the wall having the shower head and controls, and luth a folding seat 16" +- 1" in width, 36" +- 1" in length, and 18" high, adjacent to the shower controls. Sec 1115B.6.3. Fig 11B-2B.

20. Doors and panels of shower and bathtub enclosures shall be substantially constructed from approved, shatter-resistant materials. Hinged shower doors shall open outward. Sec 1115B.9.7.

21. Glazing used in doors and panels of shower and bathtub enclosures shall be fully tempered, laminated safety glass, or approved plastic. When glass is used, it shall have a minimum thickness of not less than 1/8" when fully tempered, or 1/4" when laminated, and shall pass the test requirements of UBC Standard No. 54-2. Sec 1115B.9.8

22. Plastic used in ddoes and panels of showers and bathtub enclosures shall be of a shatter-resistant type. Sec 1115B.9.9

23. At least one and not less than 1% of all lockers shall be made accessible to persons with disabilities, including clear space, reach range requirements, and a path of travel not less than 36" in clear width to these lockers. Sec 1115B.6.4

U. DRINKING FOUNTAINS

1. In new construction, where only one drinking fountain area is provided on a floor, there shall be a drinking fountain which is accessible to individuals who use wheelchairs in accordance with Plumbing Code 1507 and one accessible to those who have difficulty bending or stooping. This can accommodated by the use of hi-low fountain or by such other means as ouald achieve the required accessibility for each group on each floor. Sec 1117B.1.1

2. Drinking fountains shall be located completely within alcoves or otherwise positioned so as not to encroach into pedestrian ways. The alcove in which the water fountain is located shall be not less than 32" in width and 18" in depth. Sec 1117B.1.2 Fig 11B-3.

3. Drinking fountains shall be a minimum of 18" in depth and there shall be a clear and unobstructed knee space under the drinking fountain not less than 27" in height and 8" in depth, the depth measurement being taken form the front edge of the fountain. Sec 1507.1. Fig 11B-3.

4. There shall be toe clearance of 9" in height above the floor, and 17" indepth from the front edge of the fountain. Sec 1507.1

5. A side approach drinking fountain is not acceptable. Sec 1507.1

6. A drinking fountain bubbler shall be activated by a manually operated system not requiring a force greater tha 5 lbf., that is located within 6" of the front edge of the fountain or an electronically controlled device (preferably). Sec 1507.2.1 Fig 11B-3.

7. The bubbler outlet shall be located within 6" of the front edge of hte drinking fountain and within 36" of the floor. The water stream from the bubbler shall be substantially parallel to the front edge of the drinking fountain. Sec 1507.2.1 Fig 11B-3.

8. The spout shall provide a flow of water at least 4" high so aas to allow the insertion of a cup or glass under the flow of water. The force required to activate controls shall be no greater than 5 lbf.

V. PUBLIC TELEPHONES

1. If public telephones are provided, they shall be made accessible to the extent required by the following table:. Sec 1117B.2.1

2. A clear floor or ground space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided at telephones. Sec 1117B.2.2. Fig 11B-4.

3. Bases, enclosures and fixed seats shall not impede approaches to telephones by people who use wheelchairs. Sec 1117B.2.5

4. The highest operable part of the telephone shall be within 48" of the floor if forward approached and 54" if side approached. Sec 1117B.2.6 Fig 11B-4.

5. Telephones mounted diagonally in a corner that require wheelchair users to reach diagonally shall have the highest operable part no higher than 54" above the floor. Sec 1117B.2.6 Fig 11B-4.

6. The cord from the telephone to the handset shall be at least 29" long. Sec 1117B.2.11

7. Telephones shall have push-button controls where service for such equipment is available. Sec 1117B.2.10

8. If telephone enclosures are provided, they shall comply with the following: Sec 1117B.2.7

a. For side approach telephones, the enclosure overhang shall be no greater than 19" and the height of the lowest overhanging part shall be equal to tor greater than 27". Sec 1117B.2.7.1. Fig 11B-4(a).

b. For forward approach telephones, if the enclosure overhang is greater than 12", the clear width of the enclosure shall be 30" minimunt if the clear widht of the enclosure is less then 30", the height of the lowest overhanging part shall be equal to or greater then 27". Sec 1117B.2.7.3. Fig 11B-4(c).

c. Entrances to full-height enclosures shall be 30" minimum. Sec 1117B.2.7.2. Fig 11B-4(b).

d. Where telephone enclosures protrude into walls, halls, corridors or aisles, they shall comply with Section 1121B. Sec 1117B.2.7.4

9. Telephones shall be equipped with a receiver that generates a magnetic field in the area of the receiver cap. If banks of public telephones are provided, at least one in each bank and a total of at least 25% of the total number of public telephones, including closed circuit telephones in a building or facility, shall be equipped with a volume control. Such telephones shall be capable of a minimum of 12dbA and a maximum of 18dbA above normal. If an automatic reset is provided, 18dbA may be exceeded. Public telephones with volume control shall be hearing aid compatible and shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves. Sec 1117B.2.8

10. If a total of four or more public pay telephones are provided at the interior and exterior of a site, and if at least one of the total is in an interior location, then at least one interior public text telephone shall be provided. Sec 1117B.2.9.1

11. Text telephones shall comply with the following: Sec 1117B.2.9.2

a. Text telephones used with a pay telephone shall be permanently affixed within or adjacent to the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the text telephone and telephone receiver. Sec 1117B.2.9.2.1

b. Pay telephones designed to accommodate a portable text telephone shall be equipped with a shelf and an electrical outlet within or adjacent tothe telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone and shall have 6" minimum vertical clearance in the area where the text telephone is to be placed. Sec 1117B.2.9.2.2

c. Equicalent facilitation may be substituted for the above requirements as described in Section 1117B.2.9.2.3. Sec 1117B.2.9.2.3

d. Text telephones shall be identified by the international TDD symbol (see figure 11B-14). If a facility has a public text telephone, directional signage indicating the location of the nearest such telephone shall be places adjacent to all banks of telephones that do not contain a text telephone. Such directional signage shall include the international TDD symbol. If a facility has no banks of telephones, the directional signage shall be provided at the entrance or in a building directory. Sec 1117B.2.9.3

12. If telephone books are provided, they shall be located within 48" of the floor if forward approached and within 54" if side approached. Sec 1117B.2.12

W. AUTOMATIC TELLER AND POINT OF SALE MACHINES

NOTE: 1. Automatic teller machine (ATM) means "any electronic information processing device, including a point of sale machine, used by a financial institution or other business entity and its customers for the primary purpose of executing financial transactions between itself and its customers. For the purpose of this section, automatic teller machine includes point of sale machines used in grocery stores, ticket sales facilities, and other business entitles, but does not include card reading devices located on fuel pump islands at gasoline service stations and motor vehicle fuel facilities". Sec 1117B.7.1.1

2. ATM site means "that immediate area which is within or made or to be made part of an existing building or a building to be constructed, and to which one or more ATM's is or shall be affixed". Sec 1117B.7.1.2

3. ATM installation means "a single ATM structurally affixed to a building or other structure". Sec 1117B.7.1.3

4. Drive-up-only ATM's are not required to comply with this section. Sec 1117B.7.2

1. Where ATMs are provided for the public, they shall comply with Section 1117B.7. Sec 1117B.7.2

2. All point of sales machines used by customers for the primary purpose of executing transactions between the business entity and the customer shall be fully accessibly and comply with Sec 1117B.7. Sec 1110B.1.4

3. Controls for user activation shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. Sec 1117B.7.3

4. LED& cathode ray, or other screen devices intended to be viewed by the user shall be positioned so they are readily visible to and usable by a person sitting in a wheelchair with approximate eye level of 45", and shall comply with the following requirements: Sec 1117B.7.5

a. If mounted vertically or tipped no more than 30 degrees away from the viewer, the center line of screens an other screen devices shall bne located a maximum of 52" above grade. Sec 1117B.7.5.1

b. If mounted at an angle between 30 degrees and 60 degrees tipped away form the viewer, the center line of screens and other devices shall be located a maximum of 44" above grade. Sec 1117B.7.5.2

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
DISABLED ACCESS SECTION

REVISIONS			
NO.	DATE	ITEM	BY
1	11-22-04	LAST DISTRIBUTION CITY LAR&P REVIEW	JCR
2	4-02-05	REC. & PARKS REVIEW	JCR
3	5-02-05	BID & PLAN CHECK	JCR
4	09-20-07	REC. & PARKS REVISION	JCR

REVISIONS			
NO.	DATE	ITEM	BY
5	06-30-09	PARK REVISIONS	JCR
6	12-9-09	PARK REVISIONS	JCR
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BOYS & GIRLS CLUB OF SAN PEDRO
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LICENSED ARCHITECT
JERRY C. RODIN
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SIGNATURE
12/31/13
EXP. DATE
STATE OF CALIFORNIA

ADA-2

06/4/2012

RA-2002-005

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