



CITY OF NEWPORT BEACH

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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2019 DISABLED ACCESS PLAN REVIEW COMMENTS

SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL

1. Plan notes indicate that accessibility compliance for site parking, curb ramps, and path of travel was provided under XXXX. Records show that the building was originally built in XXXX, in which case is not up to date with current requirements. If subsequent plan check/permit has been obtained for site compliance, provide plan check number for verification and referenced applicable numbers on plans.
2. Show on the site plan the accessible path of travel from street, sidewalks, accessible parking spaces, accessible passenger drop-off and loading zone to accessible building entrance. Where more than one route is provided, all routes must be accessible. (11B-206.2.1, 11B-206.2.2, 11B-206.2.3)
 - a. Show all grade changes, ramps, and other elements along the path of travel.
 - b. Revise campus access plan to specify slope and cross slope of the accessible path of travel serving the building.
3. Show on site plan/floor plan the accessible path of travel from street, sidewalks, accessible parking spaces, accessible passenger drop-off and loading zone. An accessible path of travel to the specific area of remodel and addition shall be provided. Show all grade changes, ramps, and other elements along the path of travel indicating whether those elements comply with current code for accessibility. Non-complying elements must be brought to compliance. (11B-202.4)

Identify the following elements on the plans:

 - a. A primary entrance to the building
 - b. Restrooms serving the area
 - c. Accessible Parking Stalls
 - d. Detectable Warning Devices
 - e. Signs
 - f. Accessible Walks
 - g. Elevator
4. 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. (11B-206.3)
5. Accessible Route (11B-206.2):
 - a. The running slope of walking surfaces shall not be steeper than 1:20. (11B-403.3)
 - b. The running slope of sidewalks shall not exceed the general grade established for the adjacent street or highway. (11B-403.3, Exception)
 - c. The cross slope of walking surfaces shall not be steeper than 1:48. (11B-403.3)
 - d. The clear width of walking surfaces shall be 36 inches. (11B-403.5.1, Exception)
 - e. The clear width of corridors serving OL > 10 shall be 44 inches. (11B-403.5.1, Exception)
 - f. The clear width of sidewalks and walks shall be 48 inches. (11B-403.5.1). See Exception.
 - g. Aisle width shall be 36" serving one side, (44" serving both sides), of an aisle. (11B-403.5.1)

- h. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing space shall be either 60"x60" minimum or intersection of two walking surfaces providing a T-shape space complying with Section 11B-304.3.2 where the base and arms of the T-shape space extend 48 inches minimum beyond the intersections. (11B-403.5.3)
 - i. Walks with continuous gradients shall have resting areas, 60 inches in length, at intervals of 400 feet maximum. The resting area shall be at least as wide as the walk with 1:48 maximum slopes in all directions. (11B-403.7)
6. Changes in level:
- a. Changes in level up to ¼ inch may be vertical and without edge treatment. Changes in level between ¼ inch and ½ inch shall be beveled with a slope no greater than 1 unit vertical in 2 units horizontal. (11B-403.4, 11B-303.3)
 - b. Changes in level greater than ½ inch shall be accomplished by means of a ramp. (11B-403.4, 11B-303.4)
 - c. 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 walking surfaces. (11B-403.4, 11B-303.5)
7. Openings in floor or ground surfaces, such as steel grating, shall not allow passage of a sphere more than ½ inch diameter. Elongated openings shall be places so that the long dimension is perpendicular to the dominant direction of travel. (11B-403.2,11B-302.3)
8. The vertical clearance shall be 80 inches high minimum. Free standing objects mounted on posts or pylons shall not overhang the circulation path more than 12 inches when placed between 27 inches and 80 inches. Objects leading edge shall not project more than 4 inches into the circulation path (11B-204.1, 11B-307.4, 11B-307.2, 11B-307.3).
9. Curb Ramps and Blended Transition (11B-206.2.19):
- a. The running slope shall not be steeper than 1:12. (11B-406.2.1). Cross slopes shall be 1:48 maximum. (11B 407.5.7)
 - b. The ramp flares where provided shall not be steeper than 1:10. (11B-406.2.1)
 - c. The clear width of the curb ramp shall be 48 inches minimum. (11B-406.5.3)
 - d. 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. (11B-406.5.8)
 - e. Landings of 48 inches length by width of curb ramp minimum shall be provided at the tops of curb ramps. (11B-406.5.3)
 - f. Diagonal Curb Ramps: 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)
 - g. Diagonal Curb Ramps: Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches long minimum located on each side of the curb ramp and within the marked crossing. (11B-406.5.10)
 - h. Curb ramps and blended transitions shall have detectable warnings complying with Section 11B-705. (11B-406.5.12, 11B-247.1.2.2)
10. Provide detectable warning strip where a walk crosses or adjoins a vehicular way and the walking surface is not separated by curbs, railing or other approved elements. (11B-247.1.2.5).
11. Provide detectable warnings at Islands or cut-through medians complying with Sections 11B-705.1 and 11B-705.1.2.3. (11B-247.1.2.3)
12. Detectable Warnings (11B-247):
- a. Provide a detail for pattern and dimensions of detectable warning complying with 11B-705.1 on plan.
 - b. Curb Ramp (11B-705.1.2.2):
 - i. Detectable warning at curb ramps shall extend 36 inches in the direction of travel.

- ii. Detectable warnings shall extend the full width of the ramp run less 2 inches maximum on each side, excluding any flared sides.
 - iii. Detectable warnings shall be located so the edge nearest the curb is 6 inches minimum and 8 inches maximum from the line at the face of the curb marking the transition between the curb and the gutter, street or highway.
 - iv. On parallel curb ramps, detectable warnings shall be located on the turning space at the flush transition between the street and sidewalk.
 - c. Detectable warning surfaces at transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings shall be yellow and approximate FS 33538 of Federal Standard 595C. (11B-247.1, 11B-705.1.1.3)
 - d. Detectable warnings surfaces at other locations shall provide a 70% minimum visual contrast with adjacent walking surfaces. Where detectable warning surface does not provide a 70% minimum contrast, a 1 inch wide minimum visually contrasting surface shall separate the detectable warning from the adjacent walking surfaces and visually contrast with both either light on dark, or dark on light. (11B-247.1, 11B-705.1.1.3)
13. Specify detectable warning product and incorporate a copy of state approval on plan. If product is not state-approved, incorporate a copy of product warranty onto drawings per department policy CBC 1133B.8.5 (copy available on Building Division web page). (11B-705.3)
14. Write a note on drawings, "Contractor to provide a detectable warning product sample to the Building Inspector for approval of color contrast with finish surface."

ACCESSIBLE PARKING

15. Specify the total number of parking spaces and disabled parking spaces required by Table 11B-208.2 on site plan. (11B-208.1)
16. One in every six accessible spaces, but not less than one, shall be designated "van accessible". (11B-208.2.4)
17. Parking spaces complying with Section 11B-502 that serve a particular building or facility shall be located on the shortest accessible route from parking to an entrance complying with Section 11B-206.4. (11B-208.3)
18. Parking serves more than one accessible entrance; parking spaces complying with Section 11B-502 shall be dispersed and located on the shortest accessible route to the accessible entrances. (11B-208.3)
19. Accessible parking spaces shall be so located that persons with disabilities are not required to travel behind parking spaces other than to pass behind the parking space in which they parked. (11B-502.7.1)
20. Accessible car parking space shall be 216" long and 108" wide minimum. Access aisle shall be 60" wide minimum and shall be permitted to be placed on either side of the parking space. (11B-502.2 & 11B-502.3.4)
21. Accessible van parking space shall be 216" long and 144" wide minimum. Access aisle shall be 60" wide minimum and shall be located on the passenger side. All such spaces may be grouped on one level of a parking structure. (11B-502 & Figures 11B-502.2, 502.3 & 502.3.3).
22. Access aisles shall extend the full required length of the parking stall they serve. (11B-502.3.2)
23. Access aisles shall not overlap the vehicular way. (11B-502.3.4)
24. XXX is/are not permitted to encroach into the require access aisle space. (11B-502.3)
25. Parking spaces, access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches minimum. (11B-502.5)
26. The surface of each accessible parking space shall be marked with an International Symbol of Accessibility, complying with Section 11B-703.7.2.1, in white on blue (Color No. 15090 in Federal Standard 595B) background a minimum 36" wide by 36" high. The profile view shall be located so that it's lower corner at, or lower side aligned with, the end of the parking space length. (11B-502.6.4.1)
27. Access aisles shall be marked with blue painted borderlines around their perimeter. The words, "No parking" shall be painted in **white** within each access isle with 12" high letters located where it is visible from adjacent vehicular way. (11B-502.3.3)

28. Each parking space reserved for persons with disabilities shall be identified by a reflectorized sign complying with section 11B-703.5 that is permanently posted immediately adjacent to and visible from passenger loading zone consisting of the International Symbol of Accessibility in accordance with Section 11B-703.7.2.1. Signs may also be centered on the wall at the interior end of the parking space. The sign shall not be smaller than 70 square inches in area. An additional sign or additional language below the symbol of accessibility shall state, "Minimum Fine \$250." (11B-502.6)
29. Van accessible parking spaces shall have an additional sign or additional language stating "Van Accessible" mounted below the symbol of accessibility. (11B-502.6)
30. An additional sign shall also be posted either, in a conspicuous place, at each entrance to off-street parking facility, or immediately adjacent to on-site accessible parking 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 (11B-502.8):

"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 owner's expense. Towed vehicles may be reclaimed by telephoning the Police Dept. (949) 644-3681."
31. Accessible signage shall be located 60 inches minimum above the finished floor or ground surface measured to the bottom of the sign. Signage shall be posted at a minimum height of 80" from the bottom of the sign to the parking space finished grade when located in a path of travel. (11B-502.6)
32. Valet parking area shall comply with Section 11B-503. Provide details and signage for review. (11B-209.4)

ELECTRIC VEHICLE CHARGING STATIONS

33. Provide tabulation to show total number of EVCS (electric vehicle charging station) on the parking lot. Specify how many van accessible, standard accessible and ambulatory stalls are provided in accordance with Table 11B-228.3.2.1. (11B-228.3.2)
34. New 4 or less EVCS stalls require at least 1 van accessible EVCS stall. (11B-228.3, Table 11B-228.3.2.1)
35. Accessible EVCS stalls and access aisle surface shall slope 1:48 max in any directions. (11B-228.3, 11B-812.3)
36. Detectable warnings shall not be permitted in vehicle spaces and access aisles. (11B-228.3, 11B-812.3)
37. Accessible EVCS and access aisle, and vehicular routes serving them shall be provided a vertical clearance of 98 inches minimum. (11B-228.3, 11B-812.4)
38. Delineate accessible path of travel from the access aisle to building entrance. (11B-228.3, 11B-812.5.1)
39. Accessible route is required between EVCS stall and EV charger. (11B-228.3, 11B-812.5.2)
40. Other than ambulatory stall, arrangement shall be made in such a way that the person using them is not required to travel behind parked car other than their own car. (11B-228.3, 11B-812.5.4)
41. Van accessible EVCS stall be 144 inches wide minimum by 216 inches long minimum and shall have an access aisle placed on the passenger side. (11B-228.3, 11B-812.6.1, 11B-812.7.1)
42. Standard accessible EVCS stall be 108 inches wide minimum by 216 inches long minimum and shall have an access aisle placed on either side. (11B-228.3, 11B-812.6.2, 11B-812.7.1)
43. Ambulatory accessible EVCS stall be 120 inches wide minimum by 216 inches long minimum and shall not be required to have an adjacent access aisle. (11B-228.3, 11B-812.6.3)
44. Access aisle shall be 60 inches wide minimum and shall extend the full required length of the accessible stall. (11B-228.3, 11B-812.7.2, 11B-812.7.3)
 - a. The access aisle shall be marked with painted borderlines with hatched lines at 36" maximum.
 - b. Blue color cannot be used in the EVCS marking.
 - c. Access aisle shall not overlap vehicular way.

- d. Provide minimum 12 inches high “NO PARKING” lettering on the surface is required on the access aisle.
- 45. Every EVCS stalls shall have “EV CHARGING ONLY” letters painted on the surface. 12” high minimum. The lower corner of the letter shall be aligned with the end of the parking space length. (11B-228.3, 11B-812.9)
- 46. EV Chargers shall be adjacent to, and within the projected width of the vehicle space being served. (11B-228.3, 11B-812.10.4)

RAMPS (EXTERIOR OR INTERIOR)

- 47. The maximum slope of a ramp that serves any exit way, provides access for persons with disabilities, or is in the path of travel shall be 1” rise in 12” of horizontal run. Cross slope of ramp runs shall not be steeper than 1:48. (11B-405.2 & 11B-405.5)
- 48. The clear width of a ramp run shall be 48” minimum. *See exceptions.* (11B-405.5)
- 49. Ramp surfaces shall be stable, firm & slip resistant and shall comply with section 11B-302. (11B-405.4)
- 50. Intermediate landings shall be provided at intervals not exceeding 30” of vertical rise and at each change of direction in excess of 30 degrees. (11B-405.6 & 11B-405.7.4)
- 51. Top landings shall be at least as wide as the widest ramp run and not less than 60” wide minimum. Landings shall have a length of not less than 60” in the direction of ramp run. (11B-405.7.3).
- 52. Bottom landings shall extend 72” minimum in the direction of the ramp run. (11B-405.7.3.1 & Figure 11B-405.7)
- 53. 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. (11B-405.7.5)
- 54. Maneuvering clearances required by sections 11B-404.2.4 & 11B-404.3.2 shall be permitted to overlap required landing area. 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. (11B-405.7.5 & Table 11B-404.2.4.1)
- 55. Ramps that change direction between runs shall have a clear landing 60” min by 72” min in the direction of downward travel from the upper ramp run. (11B-405.7.4)
- 56. Ramp runs shall have handrails complying with Section 11B-505. 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 72” in length. (11B-402.2 & 11B-405.8)
- 57. Handrails shall be placed on each side of each ramp and shall be continuous the full length of the ramp, shall be 34” to 38” above the ramp surface, shall extend horizontally above the landing for 12” min beyond the top and the bottom of ramp run. 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 & figure 11B-505.10.1).
- 58. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1¼” minimum and 2” maximum. Non-circular cross sections shall have a perimeter dimension of 4” minimum and 6¼” maximum, and a cross section of 2¼” maximum. (11B-505.7 & Figure 11B-505.7.2).
- 59. Gripping surfaces (top and sides) shall be continuous along their length and shall be uninterrupted by newel posts, other construction elements, or obstructions. Bottom of gripping surfaces shall not be obstructed for more than 20% of their length. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements and shall have rounded edges (11B-505.6, 11B-505.8).
- 60. Handrail projecting from a wall shall have a space of 1 ½” between the wall and the handrail. (11B-505.5).
- 61. Handrail extension return bottom shall be 27 inches maximum above finished floor. (11B-307.2)
- 62. Edge protection shall be provided on each side of the ramp run and at each side of the ramp landing. Where the ramp surface is not bounded by a wall, the ramp shall have a curb at minimum of 2” in height or a barrier that prevents the passage of a 4” diameter sphere within 4” of the finish floor (11B-405.9.2).

ENTRANCES & EXITS

63. All entrances and exterior ground floor exit(s) to buildings and facilities shall comply with Section 11B-404. (11B-206.4.1)
64. Where direct access is provided for pedestrians from a parking structure to a building or facility entrances, each direct access to the building or facility entrance shall comply with Section 11B-404. (11B-206.4.2)
65. Weather protection by a canopy or roof overhang shall be provided at a minimum of one accessible entrance to licensed medical care and licensed long-term care facilities where the period of stay may exceed twenty-four hours. (11B-206.4.10)
66. The area of weather protection shall include the passenger drop-off and loading zone comply with Section 11B-209.3 and the accessible route from the passenger loading zone to the accessible entrance it serves. (11B-206.4.10)

DOORS, DOORWAYS, & GATES (11B-206.5)

67. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route. (11B-404.2.1).
68. At least one of the active leaves of doorways with two leaves shall provide a clear width of 32" minimum with the leaf positioned at an angle of 90 degrees from its closed position. Swinging doors & gates' maneuvering clearances, complying with table 11B-404.2.4.1, shall extend the full width of the doorway and the required latch side or hinge side clearance. (11B-404.2.2).
69. Handles, pulls, latches, locks, and other operable parts on doors and gates that are in a path of travel shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. (11B-309.4, 11B-404.2.7).
70. Operable parts of door hardware shall be 34" minimum and 44" maximum above the finish floor or ground (11B-404.2.7).
71. When sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. (11B-404.2.7)
72. Door openings shall provide a clear width of 32" minimum. Swinging doors clear opening shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24" deep shall be 36" minimum. (11B-404.2.3).
73. Floor or ground surfaces within required door maneuvering clearances shall be stable, firm, and slip resistant. Surfaces shall be level with a slope not steeper than 1:48. Changes in level are not permitted except at thresholds. Opening in floor shall not allow passage of sphere more than ½" diameter. (11B-302.2) (11B-404.2.4.4).
74. The front approach level area shall 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. (11B-404.2.4.1 & Table 11B-404.2.4.1).
75. Recessed doors maneuvering clearances for forward approach shall be provided when any obstruction within 18" of the latch side at an interior doorway, or within 24" of the latch side of an exterior doorway, projects more than 8" beyond the face of the door, measured perpendicular to the face of the door or gate. (11B-404.2.4.3 & Figure 11B-404.2.4.3 (a))
76. Provide clear space of 12" past strike edge of the door on the opposite side to which the door swings if the door is equipped with both a latch and a closer. (Figure 11B-404.2.4.1(c))
77. Thresholds shall be ½" high maximum. Raised thresholds and changes in level at doorways shall comply with section 11B-302 and 11B-303. (11B-404.2.5).
78. The distance between two hinged or pivoted doors in series and gates in series shall be a minimum of 48" plus the width of doors or gates swinging into the space. (11B-206.5, 11B-404.2.6)
79. Swinging door and gate surfaces within 10" of the finish floor 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" of the same plane as the other. (11B-404.2.10).
80. Maximum force for pushing or pulling open, exterior or interior hinged doors with closers and sliding or folding doors, shall not exceed five pounds. Minimum allowable opening force, for fire doors, not to exceed 15 pounds. (11B-404.2.9)

81. Proposed drape system at doorway is not permitted in an accessible path of travel unless drape system can be operated in the same manner as doors. (11B-206.4, 11B-206.5)

STAIRWAYS

82. Handrails shall extend a minimum of 12" beyond the top nosing and 12" plus the tread width beyond the bottom nosing, exclusive of bends, and ends shall be returned or terminate in newel posts or safety terminals. (11B-505.10.2, 505.10.3 & figures 11B—505.10.2, 505.10.3).
83. Handrail extension return bottom shall be 27 inches maximum above finished floor. (11B-307.2)
84. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1¼" minimum and 2" maximum. Non-circular cross sections shall have a perimeter dimension of 4" minimum and 6¼" maximum, and a cross section of 2¼" maximum. (11B-505.7 & figure 11B-505.7.2).
85. Handrail gripping surfaces (top and sides) shall be continuous along their length and shall be uninterrupted by newel posts, other construction elements, or obstructions. Bottom of gripping surfaces shall not be obstructed for more than 20% of their length. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements and shall have rounded edges (11B-505.6, 11B-505.8).
86. Interior stairs shall have the upper approach and the lower tread marked by a strip providing clear visual contrast. The strip shall be at least 2" wide and not more than 4" 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 as the other treads of the stair. (11B-504.4.1)
87. 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 not more than 4" 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 a material that is at least as slip-resistant as the other treads of the stair. A painted strip shall be acceptable. (11B-504.4.1)
88. Open risers are not permitted. (11B-504.3).
89. 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. (11B-504.5)

EMPLOYEE WORK AREAS

90. Spaces and elements within employee work areas shall be designed so that individuals with disabilities can approach, enter, and exit the work area. Common use circulation paths within employee work areas shall comply with Section 11B-402.2. (11B-203.9)
91. Access to Employee Areas: Aisle width serving specific employee workstation shall be minimum 44 inches clear if serving two sides or 36 inches clear if only serving side. Entryways shall be 32 inches clear width. (11B-203.9, 11B-403.5.1)

SEATING, TABLES & COUNTERS

92. Accessible seating at tables or counters shall provide knee clearance of at least 27" high, 30" wide, and 19" deep. (11B-902.2, 11B-306.3.3 & 11B-306.3.5)
93. The tops of dining surfaces and work surfaces shall be 28" to 34" above the finish floor. (11B-902.3).
94. Where provided, at least one of **each type** of sales counter and service counter shall provide parallel or forward approach to comply with Section 11B-904.4. The accessible portion of the counter top shall extend the same depth as the sales or service counter top. (11B-227.3)
95. Where counters are dispersed throughout the building or facility, counters complying with Section 11B-904.4 also shall be dispersed. (11B-227.3, 11B-904.3.3)

SIGNS & IDENTIFICATION

96. The International Symbol of Accessibility (ISA) shall comply with Figure 11B-703.7.2.1. The symbol shall consist of a white figure on a blue background. The color blue shall approximate FS 15090 in Federal Standard 595C. (11B-216.5, .6, .7, .8; 11B-703.7.2.1)

97. In existing Building and facilities, all building entrances that are accessible to and usable by persons with disabilities and at every major junction along or leading to an accessible route of travel shall be identified with a sign displaying the International Symbol of Accessibility complying with Section 11B-703.7.2.1, and with additional directional signs complying with Section 11B-703.5, as required, at junction when the accessible route diverges from the regular circulation path. (11B-216.6).
98. Directional sign visual character shall be 40 inches minimum above the finish floor or ground. (11B-216.3, 11B-216.6, 11B-703.5.6)
99. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided. (11B-703.1).
100. Where a tactile sign is provided at a door, the sign shall be located along the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right and doors. Signs shall be located so that a clear floor space of 18 x 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing. (11B-703.4.2) (Figure 11B-703.4.1)
101. Tactile characters on signs shall be located 48" minimum above finish floor, measured from the baseline of the lowest Braille cells and 60" maximum above finish floor, measured from the base line of the highest line of the raised characters. (11B-703.4.1) (Figure 11B-703.4.1)
102. Corresponding Braille shall be located below characters, 3/8"-1/2", centered or flush left. (11B-216, 11B-703.3.2)
103. When signs identify permanent rooms and spaces of a building or site, they shall comply with CBC 11B-703.1; 11B-703.2; 11B-703.3 and 11B-703.5. Where pictograms are provided, it shall comply with section 11B-703.6 and shall have text descriptions complying with Sections 11B-703.2 & 11B-703.5. (11B-216.2).
104. Provide tactile exit signage and identify locations on floor plan. Include sign elevation and typical signage text per CBC Section 1013.1 at doors to exit passageways, exit discharge and exit stairways shall comply with Sections 11B-703.1; 11B-703.2; 11B-703.3 and 11B-703.5. (11B-216.4.1).
105. Signs required by Section 1009.9 to provide directions to accessible means of egress shall comply with Section 11B-703.5. (11B-216.4.3)

NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED

106. Where fire alarm systems provide audible alarm coverage, alarms shall comply with section 11B-215. Visual warning devices for the hearing impaired are required to be installed (added) within the suite under one of the following conditions: (11B-215.1)
 - a Building is equipped with visual warning devices.
 - b Existing fire alarm panel can support visual warning devices for the entire building.
 - c The fire alarm panel is being upgraded to support visual warning devices for the entire building.
 - d The occupancy group is changing.
107. Approved notification appliances for the hearing impaired shall be installed in accordance with the provisions of NFPA 72 in the following areas: (11B-215.12 and 907.5.2.3.1)
 - a. Public and common use areas such as sanitary facilities, corridors and lobbies per Section 907.5.2.3.1.
 - b. Where employee work areas have audible alarm coverage, the wiring system shall be designed so that visible alarms complying with section 907.5.2.3.2 can be integrated into the alarm system. (11B-215.3)

ASSEMBLY AREAS

108. An assistive listening system complying with 11B-706 shall be provided in assembly areas, including conference and meeting rooms (11B-219.2):

- a. Provide XXX-assistive listening receivers (4% of the total number of seats, but not less than two) located within 50-foot viewing distance of the stage or playing area with complete view of those areas. 25% but not less than 2 receivers shall be hearing aide compatible. (11B-219.3)
 - b. Provide enlarge plan/detail/specifications for assistive listening system showing compliance with Section 11-B706. (11B-219.1)
109. Provide the following number of accessible seats/spaces (11B-221):
- a. XXX-Wheelchair spaces (11B-221.2, Table 11B-221.2.1.1)
 - b. 1 companion seat per wheelchair space. (11B-221.3)
 - c. XXX-Designated aisle seats (5% of total number of aisle seats, 11B-221.4)
 - d. XXX-Semi-ambulant seats (1% of total number of seats, 2 minimum, 11B-221.6)
110. Provide enlarge plan/detail for companion seats showing compliance with Section 11B-802.3.
111. Provide enlarge plan/detail for designated aisle seats showing compliance with Section 11B-802.4.
112. Provide enlarge plan/detail for semi-ambulant seats showing compliance with Section 11B-802.5.
113. A single wheelchair space shall be 36" wide and two adjacent wheel spaces shall be 33" wide for each wheelchair. 11B-802.1.2.
114. Depth of wheelchair shall be 48" min. (but 60" deep minimum when access from the side) 11B-802.1.3.

RESTAURANTS, CAFETERIAS, BANQUET FACILITIES AND BARS

115. An accessible route shall be provided to all functional areas, including raised or sunken areas, and outdoor areas. (11B-206.2.5).
116. Access to disabled seating shall be provided with main aisles not less than 36" in clear width. (11B-403.5.1)
117. Where dining surfaces are provided for consumption of food or drink, at least 5% of the seating spaces and standing spaces at the dining surfaces shall comply with built-in element requirements listed under Section 11B-902. (11B-226.1).
118. Where work surfaces are provided for use by other than employees, at least 5% shall comply with Section 11B-902 (11B-226.1).
119. Dining surfaces required to comply with section 11B-902, that is to provide a clear floor space per Section 11B-305 positioned for forward approach, shall be dispersed throughout the space or facility containing dining surfaces for each type of seating in a functional area. (11B-226.2).
120. Where food or drink is served for consumption at a counter exceeding 34" in height, a portion of the main counter 60" minimum in length shall be provided in compliance with Section 11B-902.3. (11B-226.3).
121. Where self-service shelves and dispensing devises for tableware, dishware, food and beverages are provided, at least 50% but not fewer than one, of each type provided shall comply with reach ranges per Section 11B-308 (11B-904.5.1, 11B-227.4).
122. The tops of tray slides shall be 28" to 34" maximum above the finish floor. (11B-904.5.2, 11B-227.4)

SALES FACILITIES

123. Spaces and elements within employee work areas shall only be required to comply with Sections 11B-206.2.8, 11B-403.5, 11B-207.1 and 11B-215.3. (11B-203.9).
124. The customer side of checkout aisles, sales counters, food service lines, queues and waiting lines shall comply with Sections 11B-227 and 11B-904. (11B-227.1)
125. Where fitting or dressing rooms are provided for male or female customers, patients, employees, or the general public, 5 percent, but never less than one, of dressing rooms for each type of use in each cluster of dressing rooms shall be accessible by providing the following: (11B-222.1)
- a. Turning space complying with Section 11B-304 shall be provided within the room. (11B-803.2)

- b. Doors shall **not** swing into the room unless a turning space complying Section 11B-304.3 is provided beyond the arc of the door swing.
- c. Full-length mirrors at least 18" wide by 54" high, the bottom of which is no higher than 20" from the floor and mounted in a position affording a view to a person on the bench as well as to a person in a standing position. (11B-803.6)
- d. Coat hooks provided within the room shall be located no higher than 48" from the floor and in accordance with one of the reach ranges in section 11B-308. Coat hooks shall not be located above the bench. (11B-803.5)
- e. A 48" long bench, 20" to 24" deep, with a back support or shall be mounted to the wall along the longer dimension of the room 17" to 19" above the floor with a clear space alongside the bench to allow a person using a wheelchair to make a parallel transfer onto the bench. The structural strength of the bench and attachments shall comply with Section 11B-903.6. (11B-903.4).
- f. Clear floor or ground space complying with Section 11B-305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench. (11B-903.2)

EXAMINATION, DIAGNOSTIC AND TREATMENT ROOMS

- 126. Provide turning space complying with Section 11B-304 inside the treatment room. (11B-223, 11B-805.4.3)

ELEVATOR

- 127. Elevators shall comply with Section 11B-407. (11B-206.6).
- 128. In new construction or alteration (with more than 10,000 sq. ft in any floor), when vertical access is required or provided, such elevator shall be located within 200 ft from stairway. (11B-206.2.3.2).
- 129. Where existing elevators do not comply with section 11B-407, elevators complying with Section 11B-407 shall be identified with the international Symbol of Accessibility complying with Section 11B-703.7.2.1.
- 130. Elevators shall comply with Section 11B-407 and with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic. (11B-407.1)
- 131. Provide the following ELEVATOR note(s) or detail(s) on the plans:
 - a. Elevator door widths and car inside dimensions and clear width of elevators shall comply with Table 11B-407.4.1. (11B-407.3.6, 11B-407.4.1)
 - b. Elevator hoistway and car doors shall close by automatic means and be provided with a door reopening device which will function to stop and reopen a car door and adjacent hoist way 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. (11B-407.3)
 - c. 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 Sections 11B-407.3.4. (11B-407.3.4)
 - d. The minimum acceptable time for doors to remain fully open shall not be less than 5 seconds. (11B-407.3.5)
 - e. The clearance between the car platform sill and the edge of any hoistway landing shall be 1-1/4 inches maximum. (11B-407.4.3)
 - f. The elevator shall be automatic and be provided with a self-leveling feature that will automatically bring the car to the floor landings with a tolerance of + 1/2" under normal loading and unloading conditions. This self-leveling shall, within its zone, be entirely automatic and independent of the operating device and shall correct the over-travel or under-travel. The car shall also be maintained approximately level with the landing irrespective of load. (11B-407.4.4)
 - g. The minimum illumination at the car controls, threshold, and the landing when the car and landing doors are open shall not be less than 5 foot-candles. (11B-407.4.5)

- h. Elevator car controls (11B-407.4.6):
 - i. The centerline of elevator floor buttons shall be no higher than 48" above the finish floor for side approach and front approach. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches above the finished floor where a parallel approach is provided. (11B-407.4.6.1)
 - ii. Control buttons shall be illuminated and shall be activated by a mechanical motion that is detectable. (11B-407.6.2)
 - iii. Buttons shall have square shoulders, be $\frac{3}{4}$ " minimum in their smallest dimension and be raised $\frac{1}{8}$ " plus or minus $\frac{1}{32}$ " above the surrounding surface. (11B-407.6.2)
 - iv. Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided, they shall read from left to right. (11B-407.6.2)
 - v. Car control keypads shall be in a standard telephone keypad arrangement and shall comply with Section 11B-407.4.7.2. (11B-407.6.3)
 - vi. Emergency controls buttons shall have their centerlines 35 inches minimum above the finish floor. Emergency controls, including emergency alarms, shall be grouped at the bottom of the panel. (11B-407.6.4)
- i. Designations and indicators of car controls (11B-407.4.7)
 - i. Control button shall be identified by raised characters or symbols, white on a black background, complying with Section 11B-703.2 and Braille complying with Section 11B-703.3.
 - ii. Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.
 - iii. The control button for the "door open," "door close", "alarm", "emergency stop", "main entry floor," and "telephone" shall be identified with raised symbols and Braille as shown in Table 11B-407.4.7.1.3.
 - iv. A minimum clear space of $\frac{3}{8}$ " or other suitable means of separation shall be provided between rows of control buttons.
- j. Car position indicators (11B-407.4.8):
 - i. Audible and visible car position indicators shall be provided in elevator cars.
 - ii. Characters shall be a minimum of $\frac{1}{2}$ " in height and shall be located above the car control panel or above the door.
 - iii. As the car passes a floor and when a car stops at a floor served by the elevators, the corresponding numerals shall illuminate, and an audible signal shall sound.
 - iv. The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.
 - v. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.
 - vi. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.
- k. Emergency two-way communication (11B-407.4.9):
 - i. Shall be located 48 inches maximum and 15 inches minimum above finished floor.
 - ii. Raised characters or symbols, white on black background, and Braille designations shall be provided adjacent to the device and shall comply with Sections 11B-703.2 & 11B-703.3.
 - iii. Emergency two-way communications between the elevator and a point outside the hoistway shall comply with ASME A17.1.
- l. A support rail (the grip portion shall not be less than $1\frac{1}{4}$ " or more than $1\frac{1}{2}$ ") shall be provided on one wall of the car. The support rail shall be smooth and the inside surface at least $1\frac{1}{2}$ " clear of the walls. The top of the support rail shall be between 31" and 33" above the floor. The ends of the support rail shall be 6 inches maximum from the adjacent walls. (11B-407.4.10)

- m. Elevator Landing Call Controls:
 - i. Call buttons shall be located 48 inches maximum and 15 inches minimum above finished floor, measured to the centerline of the highest operable part. (11B-407.2.1.1)
 - ii. The hall call buttons shall be a minimum of 3/4" in size and shall be raised 1/8" + 1/32" above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable. (11B-407.2.1.2)
 - iii. Call buttons shall have visible signals that will activate when each call is registered and will extinguish when each call is answered. Call buttons shall be internally illuminated with a white light over the entire surface of the button. (11B-407.2.1.5)
- n. Hoistway Floor Designation (11B-407.2.3):
 - i. Passenger elevator landing jambs on all elevator floors shall have the number of the floor on which the jamb is located designated by raised characters that are a minimum of 2" in height complying with Sections 11B-703.2 & 11B-703.4.1
 - ii. On the grade level, a raised five-pointed star shall be placed to the left of the raised character. The outside diameter of the star shall be 2 inches.
 - iii. The raised character and star shall be white on a black background.
 - iv. Grade 2 Braille complying with Section 11B-703.3 shall be placed below the corresponding raised characters and the star. The Braille translation for the star shall be "MAIN."
 - v. Tactile characters on signs shall be located 48" minimum above finish floor, measured from the baseline of the lowest Braille cells and 60" maximum above finish floor, measured from the base line of the highest line of the raised characters.
- o. Hall Signal (11B-407.2.2):
 - i. Hall signals shall be visible from the floor area adjacent to the hall call button. (11B-407.2.2.2)
 - ii. Hall lantern signal for each direction shall be a minimum 2.5 inches high by 2.5 inches wide. The centerline of the fixture shall be located a minimum of 6 feet in height from the lobby floor. (11B-407.2.2.2)
 - iii. The audible signal shall sound once for the "up" direction and twice for the "down" direction or shall have verbal annunciators that say "up" or "down." (11B-407.2.2.3)

DRINKING FOUNTAINS, SINKS, ETC

- 132. No fewer than two drinking fountains shall be provided, one shall comply with Sections 11B-602.1 through 11B-602.6 and the other one shall comply with Section 11B-602.7. When a single drinking fountain complies with all of the above listed sections, it shall be permitted to be substituted for two separate drinking fountains. (11B-211.1)
- 133. Drinking Fountains:
 - a. Accessible drinking fountain shall be minimum 18 inches and maximum 19 inches in depth. (11B-211.1, 11B-602.8)
 - b. Provide minimum 60 inches clear width (accommodate 60 inches diameter circle) at XXX in front of drinking fountain to accommodate front approach; side approach is not permitted. (11B-211.1, 11B-602.2)
 - c. Drinking fountains shall be located completely within alcoves, positioned between winged walls, or located not to encroach into pedestrian ways. The protected area shall be 32 inches wide minimum and 18 inches deep minimum, and shall comply with Section 11B-305.7. (11B-602.9)
- 134. Sinks (11B-212.3):
 - a. Provide minimum 5'0" depth in front of the sink for maneuvering to allow for forward approach to sink. (11B-304.3, 11B-606.2)

- b. The front of the higher of the rim or counter surface shall be 34 inches maximum above the finished floor. (11B-606.3)
- c. Provide knee clearance 27 inches high minimum above the finished floor at a depth of 8 inches minimum increasing to 29 inches high minimum above the finish floor at the front edge. See Figure 11B-306.3(c). (11B-306.3.3, Example #1, 11B-606.2)
- d. Knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor and 8 inches deep minimum at 27 inches above the finish floor. (11B-306.3.3, 11B-606.2)
- e. Sink shall be located 18 inches minimum from side wall measured to center line of fixture. (11B-606.6)
- f. Sinks shall be 6-1/2 inches deep maximum. (11B-606.7)
- g. Space extending greater than 6 inches beyond the available knee clearance at 9 inches above the finished floor shall not be considered toe clearance. (11B-606.2, 11B-360.2.4)

PLUMBING FIXTURES AND TOILET COMPARTMENTS (11B-213.2) (11B-604.2 through 11B-604.8)

- 135. Centerline of water closet shall be 17"-18" from side wall. Ambulatory accessible toilet compartment specified in Section 11B-604.8.2 shall have water closet center line 17"-19" from side wall. (11B-604.2).
- 136. Clearance around water closet shall be 60" measured perpendicular from side wall and 56" from rear wall. A 60" wide by 48" deep maneuvering space shall be provided in front of the water closet. 11B-604.3.1 & figure 11B-604.3.1.
- 137. Flush controls shall be located on the open side of the water closet, 44 inches maximum above the floor. (11B-604.6)
- 138. The height of the accessible water closet shall be a minimum of 17 inches and maximum of 19 inches measured to the top of a maximum 2-inch high toilet seat. (11B-604.4)
- 139. Toilet tissue dispenser shall be located 7 inches minimum to 9 inches maximum of the front edge of the water-closet to the center of the dispenser. The outlet of the dispenser shall be below the grab bar, 19 inches minimum above the finish floor. See Figure 11B-604.7. (11B-604.7)
- 140. Specify wall recessed combination toilet paper and set cover dispenser to maintain minimum 1.5 inches clear from grab bar. (11B-604.7, 11B-609.3)
- 141. Wheelchair accessible compartment shall be 60" wide measured perpendicular to the side and 56" deep for wall hung closets and 59" deep for floor mounted closets.
- 142. Wheelchair accessible compartment with an end-opening door swinging in, 60" wide by 36" deep maneuvering space shall be provided in front of the clearance required in Section 11B-604.8.1.1. See figures 11B-604.8.1.1.2(b) and 11B-604.8.1.1.3(b).
- 143. Wheelchair accessible compartment with a side-opening door, either in-swinging or out-swinging, 60" wide by 60" deep maneuvering space shall be provided in front of the water closet. See figure 11B-604.8.1.1.2.
- 144. Wheelchair accessible compartment with an end opening door, either in-swinging or out-swinging, 60" wide by 48" deep maneuvering space shall be provided in front of the water closet. See figure 11B-604.8.1.1.3.
- 145. Toilet compartment doors, and door hardware, shall comply with Section 11B-404 except when 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. (11B-604.8.1.2).
- 146. Water closet compartment shall be equipped with a door that has an automatic closing device, and shall have a clear, unobstructed opening width of 32 inches when located at the end and 34 inches when located at the side with the door positioned at an angle of 90 degrees from its closed position. (11B-604.8.1.2)
- 147. Provide minimum 48 inches clear distance between compartment's door and the nearest obstruction measured perpendicular to the compartment door in its closed position. (11B-604.8.1.2)
- 148. Accessible Compartment:

- a. Doors located in the front partition shall be 4 inches maximum from the side wall or partition farthest from the water closet. (11B-604.8.1.2)
 - b. Doors located in the side wall or partition shall be 4 inches maximum from the front partition. (11B-604.8.1.2)
149. Grab Bars (11B-609):
- a. Water Closet: The side grab bar shall be 42 inches long minimum, located 12 inches max. from the rear wall and extend 54 inches min. from the rear wall with the front-end position 24 inches min. in front of the water closet. (11B-604.5.1)
 - b. Water Closet: 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-604.4.5.2)
 - c. Grab bars shall be installed 33 – 36 inches above and parallel to the floor. (11B-604.5, 11B-609.4)
 - d. The space between the grab bar and walls/projecting objects shall be 1-1/2 inches minimum. (11B-604.5, 11B-609.3)
150. Show on floor plan the required toe clearance in accordance with Section 11B-604.8.1.4 & Figure 11B-604.8.1.4 or provide additional 6 inches to the stall width. (11B-604.8.1.4)
151. Laminated apron not permitted to project in the require knee clearance under the sink. (11B-213.3.4, 11B-606.2, 11B-306)
152. Urinals:
- a. Urinal alcoves shall be 36 inches wide minimum where the depth exceeds 24 inches. (11B-605.3)
 - b. Flush controls shall be mounted at a maximum height of 44 inches above finished floor. (11B-605.4)
 - c. Urinals shall have the rim 17 inches maximum above the finished floor or ground. (11B-605.2)
 - d. Urinals shall be 13.5 inches deep minimum measured from the outer face of the urinal rim to the back of the fixture. (11B-605.2)

TOILET ROOMS

153. Doorways leading to men's toilet and bathing facilities, complying with Section 11B-603, shall be identified by an equilateral triangle ¼" thick with edges 12" 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-216.8.1, 11B-703.7.2.6.1)
154. Doorways leading to women's toilet and bathing facilities, complying with Section 11B-603, shall be identified by a circle ¼" thick and 12" in diameter. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. (11B-216.8.1, 11B-703.7.2.6.2).
155. Unisex toilet and bathing facilities shall be identified by a circle ¼" thick, 12" in diameter, with a ¼" thick triangle with a vertex pointing upward superimposed on the circle and within the 12" 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-216.8.1, 11B-703.7.2.6.3)
156. Accessible restroom geometric symbol shall be mounted at 58-60 inches above the finished floor measured from the centerline of the symbol. (11B-703.7.2.6)
157. 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)
158. Turning space of 60" min shall be provided within the room (11B-603.2.1).
159. Turning space shall be permitted to include knee & toe clearance complying with Section 11B-306. (11B-304.3.1)
160. Doors shall not swing into the clear floor space or clearance required for any fixture. (11B-603.2.3) (*Exception for individual use restroom*)
161. Doors may encroach 12 inches into the turning space. (11B-603.2.3)

- 162. Single-user toilet rooms shall not contain more than one lavatory, and not more than two water closets without urinals or one water closet and one urinal. (11B-213.2.1).
- 163. Single-user toilet rooms shall have privacy latches. (11B-213.2.1).
- 164. Baby changing tables shall not be located in accessible toilet compartment within a multiple accommodations' toilet facility. (11B-226.4)

BATHING ROOMS

- 165. Where bathing rooms are provided, they shall comply with Section 11B-603. (11B-213.1)
- 166. Where bathtubs or showers are provided, at least one bathtub shall comply with 11B-607. (11B-213.3.6)
- 167. Where showers are provided, at least one shower shall comply with 11B-608. (11B-213.3.6)

DOCUMENTATION OF UNREASONABLE HARDSHIP

- 168. When adjusted construction cost is less than or equal to the current valuation threshold as defined in Chapter 2, Section 202, the cost of compliance with Section 11B-202.4 shall be limited to 20% of the adjusted construction cost and compliance shall be provided without exceeding the 20%.
- 169. When construction cost exceeds current valuation threshold, as defined in Chapter 2, Section 202, and cost of construction is found to be an unreasonable hardship, full compliance with Section 11B-202.4 shall not be required and compliance shall be provided by equivalent facilitation with a construction cost of not less than 20% as defined above. The details of the findings of unreasonable hardship shall be recorded and shall be subject to Chapter 1, Section 1.9.1.5, Special Conditions for Persons with Disabilities Requiring Appeals Actions Ratifications.

Provide documentation of unreasonable hardship for providing full compliance for XXX. Please fill out attached form and pay the applicable fee at the Building Division permit counter prior to resubmittal.

ADDITIONAL CORRECTIONS:

- 170. Reach Ranges:
 - a. Electrical Reach (11B-308.1.1, 11B-308.1.2):
 - i. Controls, switches, & receptacle outlets low reach shall be measured to the bottom of the outlet box and the high reach shall be measured to the top of the outlet box.
 - b. Forward Reach (11B-308.2):
 - i. Unobstructed high reach shall be 48 inches maximum and low shall be 15 inches minimum above the finished floor.
 - ii. Obstructed high reach shall be 48 inches maximum when reach depth is 20 inches maximum.
 - iii. Obstructed high reach shall be 44 inches maximum when reach depth is greater than 20 inches but less than 25 inches.
 - c. Side Reach (11B-308.3):
 - i. Unobstructed high reach shall be 48 inches maximum and low shall be 15 inches minimum above the finished floor.
 - ii. Obstructed high reach shall be 48 inches maximum when reach depth is 10 inches maximum.
 - iii. Obstructed high reach shall be 46 inches maximum when reach depth is greater than 10 inches but less than 24 inches.
- 171. Provide minimum 60 inches clear width for 180 degree turnaround at XXX. (11B-403.5.2, 11B-304.3.1)
- 172. Specify proximity type keycard reader. (11B-205.1, 11B-309.4)
- 173.