

**DRAFT EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT (DSA-AC)

REGARDING THE CALIFORNIA BUILDING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

2013 CALIFORNIA BUILDING CODE
INTERVENING CODE CYCLE**

LEGEND FOR EXPRESS TERMS

1. Existing California amendments or code language being modified are in italics when they appear in the model code text: All such language appears in *italics*, modified language is underlined.
2. New California amendments: All such language appears underlined and in italics.
3. Repealed text: All such language appears in ~~strikeout~~.

**CHAPTER 2
DEFINITIONS**

ITEM 2.01

Definition of ASSEMBLY AREA

ASSEMBLY AREA. [DSA-AC] *A building or facility, or portion thereof, used for the purpose of entertainment, educational or civic gatherings, or similar purposes. For the purposes of these requirements, assembly areas include, but are not limited to, classrooms, lecture halls, courtrooms, public meeting rooms, public hearing rooms, legislative chambers, motion picture houses, auditoria, theaters, playhouses, dinner theaters, concert halls, centers for the performing arts, amphitheaters, arenas, stadiums, grandstands or convention centers. Common use conference and meeting rooms are also assembly areas for the purposes of these requirements.*

REASON: DSA-AC is proposing to amend the definition of “assembly area” to clarify that common-use conference and meeting rooms are considered to be assembly areas. This is consistent with the Section 11B-219.2 scoping requirements which require assistive listening devices to be provided in assembly areas, including conference and meeting rooms. This amendment will provide consistency for code users.

**CHAPTER 11B
ACCESSIBILITY TO PUBLIC BUILDINGS,
PUBLIC ACCOMMODATIONS, COMMERCIAL BUILDINGS AND PUBLIC HOUSING**

ITEM 11B.01

DIVISION 2: SCOPING REQUIREMENTS

11B-202 Existing buildings and facilities

11B-202.4 Path of travel requirements in alterations, additions and structural repairs. ...

Exceptions:

1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. *When the 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 percent of the adjusted construction cost of alterations, structural repairs or additions. When the cost of full compliance with Section 11B-202.4 would exceed 20 percent, compliance shall be provided to the greatest extent possible without exceeding 20 percent.*

When the adjusted construction cost exceeds the current valuation threshold, as defined in Chapter 2, Section 202, and the enforcing agency determines the cost of compliance with Section 11B-202.4 is an unreasonable hardship, as defined in Chapter 2, Section 202, full compliance with Section 11B-202.4 shall not be required. Compliance shall be provided by equivalent facilitation or to the greatest extent possible without creating an unreasonable hardship; but in no case shall the cost of compliance be less than 20 percent of the adjusted construction cost of alterations, structural repairs or additions. The details of the finding of unreasonable hardship shall be recorded and entered into the files of the enforcing agency and shall be subject to Chapter 1, Section 1.9.1.5, Special Conditions for Persons with Disabilities Requiring Appeals Action Ratification.

For the purposes of this exception, the adjusted construction cost of alterations, structural repairs or additions shall not include the cost of alterations to path of travel elements required to comply with Section 11B-202.4.

In choosing which accessible elements to provide, priority should be given to those elements that will provide the greatest access in the following order:

1. *An accessible entrance;*
2. *An accessible route to the altered area;*
3. *At least one accessible restroom for each sex or a single unisex restroom;*
4. *Accessible telephones;*
5. *Accessible drinking fountains; and*
6. *When possible, additional accessible elements such as parking, storage and alarms.*

If an area has been altered without providing an accessible path of travel to that area, and subsequent alterations of that area or a different area on the same path of travel are undertaken within three years of the original alteration, the total cost of alterations to the areas on that path of travel during the preceding three-year period shall be considered in determining whether the cost of making that path of travel accessible is disproportionate.

9. ...

REASON: DSA-AC is proposing an amendment to this section to provide clarity and consistency for code users. DSA-AC is proposing to amend this section to incorporate provisions of the 2010 ADA Standards for State and Local Government Facilities: Title II regulations at 28 CFR, part 35, section

35.151(b)(4)(iv)(B) and 2010 ADA Standards for Public Accommodations and Commercial Facilities: Title III regulations at 28 CFR, part 36, subpart D, section 36.403(g)(2). These ADA regulations include the option for a “single unisex restroom” in the priority list of elements to consider when choosing which elements to upgrade.

ITEM 11B.02

DIVISION 2: SCOPING REQUIREMENTS

11B-202 Existing buildings and facilities

11B-202.4 Path of travel requirements in alterations, additions and structural repairs. ...

Exceptions:

1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. *When the 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 percent of the adjusted construction cost of alterations, structural repairs or additions. When the cost of full compliance with Section 11B-202.4 would exceed 20 percent, compliance shall be provided to the greatest extent possible without exceeding 20 percent.*

When the adjusted construction cost exceeds the current valuation threshold, as defined in Chapter 2, Section 202, and the enforcing agency determines the cost of compliance with Section 11B-202.4 is an unreasonable hardship, as defined in Chapter 2, Section 202, full compliance with Section 11B-202.4 shall not be required. Compliance shall be provided by equivalent facilitation or to the greatest extent possible without creating an unreasonable hardship; but in no case shall the cost of compliance be less than 20 percent of the adjusted construction cost of alterations, structural repairs or additions. The details of the finding of unreasonable hardship shall be recorded and entered into the files of the enforcing agency and shall be subject to Chapter 1, Section 1.9.1.5, Special Conditions for Persons with Disabilities Requiring Appeals Action Ratification.

For the purposes of this exception, the adjusted construction cost of alterations, structural repairs or additions shall not include the cost of alterations to path of travel elements required to comply with Section 11B-202.4.

In choosing which accessible elements to provide, priority should be given to those elements that will provide the greatest access in the following order:

1. *An accessible entrance;*
2. *An accessible route to the altered area;*
3. *At least one accessible restroom for each sex;*
4. *Accessible telephones;*
5. *Accessible drinking fountains; and*
6. *When possible, additional accessible elements such as parking, signs, storage and alarms.*

If an area has been altered without providing an accessible path of travel to that area, and subsequent alterations of that area or a different area on the same path of travel are undertaken within three years of the original alteration, the total cost of alterations to the areas on that path of travel during the preceding three-year period shall be considered in determining whether the cost of making that path of travel accessible is disproportionate.

9. ...

REASON: DSA-AC is proposing an amendment to this section to provide clarity for code users. When alterations or additions are made to existing buildings or facilities, Section 11B-202.4 requires a primary accessible path of travel to the specific area of alteration or addition. The primary accessible path of travel includes a primary entrance to the building or facility, toilet and bathing facilities serving the area, drinking fountains serving the area, public telephone serving the area, and signs. Exception 8 of Section 11B-202.4 provides relief from the requirements for a fully accessible path of travel. When the adjusted construction cost is less than or equal to the current valuation threshold, Exception 8 permits access compliance be provided to the greatest extent possible without exceeding 20 percent. A priority list of elements to consider when choosing which elements to upgrade is included in Exception 8. DSA-AC is proposing to add "signs" to the priority list of items consistent with the requirements of Section 11B-202.4.

ITEM 11B.03

DIVISION 2: SCOPING REQUIREMENTS

11B-203 General Exceptions

11B-203.8 Reserved. Residential facilities. ~~In public housing residential facilities, common use areas that do not serve residential dwelling units required to provide mobility features complying with Sections 11B-809.2 through 11B-809.4 and adaptable features complying with Chapter 11A, Division IV shall not be required to comply with these requirements or to be on an accessible route.~~

REASON: DSA-AC is proposing to repeal this section to provide clarity and consistency for code users. The 2010 CBC, Section 1127A.1 contains a provision requiring common use areas in multi-family housing to be accessible to persons with disabilities. An inadvertent error was introduced into 2013 CBC, Section 11B-203.8 which provides a general exception to common use areas which do not serve residential dwelling units required to provide mobility or adaptable features. The error is being corrected to prevent any possible confusion about the requirements for common-use areas in public housing residential facilities. The text of this general exception is being repealed and replaced with the term "reserved" to maintain the numbering sequence. Where residential dwelling units with mobility and adaptable features, and common use areas serving residential dwelling units with mobility and adaptable features, are located on an accessible route, Section 11B-206.2.3, Exception 4 provides relief from the requirement to provide an accessible route connecting other stories in the facility. However, Section 11B-206.2.3, Exception 4 does not obviate or limit in any way the obligation to comply with other Chapter 11B accessibility requirements in common use areas located on inaccessible stories, thereby maintaining the 2010 CBC requirement for accessibility in common use areas.

ITEM 11B.04

DIVISION 2: SCOPING REQUIREMENTS

11B-203 General Exceptions

11B-203.9 Employee work areas workstations. Employee workstations shall be on an accessible route complying with Division 4 and shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the employee workstation. Spaces and elements within employee ~~work areas~~ workstations shall only be required to comply with ~~Sections 11B-206.2.8, 11B-207.1, and 11B-215.3, 11B-~~

~~302, 11B-303, 11B-404.2.3, and Section 11B-206.2.8 where common use circulation paths occur. and shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the employee work area.~~

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. The 2010 CBC, Section 1123B.2 contains a provision requiring employee workstations to comply with aisle width, change of level, and entryway width requirements. An inadvertent error was introduced into 2013 CBC, Section 11B-203.9 which provides a general exception to employee work areas rather than to employee workstations. The error is being corrected to prevent any possible confusion regarding the requirements for employee work areas and workstations. The term “employee work areas” is being amended to read “employee workstations” and applicable sections references are being inserted.

ITEM 11B.05

DIVISION 2: SCOPING REQUIREMENTS

11B-206 Accessible routes

11B-206.4 Entrances. ...

11B-206.4.1 Entrances and exterior ground floor exits. All entrances and exterior ground-floor exits to buildings and facilities shall comply with Section 11B-404.

Exceptions:

1. ...
2. Exits in excess of those required by Chapter 10, and which are more than 24 inches (610 mm) above grade shall not be required to comply with Section 11B-404. ~~Such doors shall have warning signs complying with Section 11B-703.5, stating that they are not accessible.~~

REASON: DSA-AC is proposing to repeal the provision within this exception which requires a warning sign at exits in excess of those required by Chapter 10 and which are more than 24 inches above grade. If the exit door leads directly to a grade-level exterior exit by means of an accessible ramp or if the exit door leads directly to an exterior area for assisted rescue there would be no need for a warning sign. If the exit door leads directly to a grade-level exterior exit by means of a stairway, 2013 CBC Section 1011.4 requires the door to be identified by a tactile exit sign with the following words “EXIT STAIR DOWN” or “EXIT STAIR UP”. An additional warning sign located at the door itself would be redundant. DSA-AC is proposing to include an advisory within the Companion Manual to the 2013 California Building Code recommending that a directional sign or signs be placed along the main accessible route or routes leading to an inaccessible exit door indicating the location of the nearest accessible exit door.

ITEM 11B.06

DIVISION 2: SCOPING REQUIREMENTS

11B-208 Parking spaces

11B-208.2 Minimum number. ...

11B-208.2.3 Residential facilities. ...

~~**11B-208.2.3.4 requests for accessible parking spaces.** When assigned parking is provided, designated accessible parking for the adaptable residential dwelling units shall be provided on requests of residents with disabilities on the same terms and with the full range of choices (e.g., off-street parking, carport or garage) that are available to other residents.~~

REASON: DSA-AC is proposing to repeal this section which describes operational procedures associated with providing assigned accessible parking spaces on the request of residents rather than associated with

design and construction. The provision stating that “*When assigned parking is provided, designated accessible parking for the adaptable residential dwelling units shall be provided on requests of residents with disabilities*” is essentially unenforceable by building officials. DSA-AC is proposing to include the repealed language, along with additional explanatory language, in an advisory within the Companion Manual to the 2013 California Building Code to clarify that operational procedures are necessary to ensure the Fair Housing Act Design Manual requirements for public housing are met.

ITEM 11B.07**DIVISION 2: SCOPING REQUIREMENTS****11B-211 Drinking fountains**

11B-211.2 Minimum number. No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with *Sections 11B-602.1 through 11B-602.6, 11B-602.8 and 11B-602.9*, and one *One* drinking fountain shall comply with ~~Section~~ *Sections 11B-602.7 and 11B-602.9*.

Exception: Where a single drinking fountain complies with *Sections 11B-602.1 through 11B-602.6 and 11B-602.7 11B-602.9*, it shall be permitted to be substituted for two separate drinking fountains.

11B-211.3 More than minimum number. Where more than the minimum number of drinking fountains specified in *Section 11B-211.2* are provided, 50 percent of the total number of drinking fountains provided shall comply with *Sections 11B-602.1 through 11B-602.6, 11B-602.8 and 11B-602.9*, and 50 percent of the total number of drinking fountains provided shall comply with ~~Section~~ *Sections 11B-602.7 and 11B-602.9*.

Exception: Where 50 percent of the drinking fountains yields a fraction, 50 percent shall be permitted to be rounded up or down provided that the total number of drinking fountains complying with *Section 11B-211* equals 100 percent of drinking fountains.

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. In the previous rulemaking cycle two new sections were added to the technical requirements for drinking fountains, *Section 11B-602.8 Depth* and *Section 11B-602.9 Pedestrian Protection*. References to the new sections were inadvertently omitted from the Chapter 2 scoping requirements for drinking fountains. DSA-AC is proposing to amend *Sections 11B-211.2 and 11B-211.3* to include references to *Sections 11B-602.8 and 11B-602.9*, as applicable.

ITEM 11B.08**DIVISION 2: SCOPING REQUIREMENTS****11B-213 Toilet facilities and bathing facilities****11B-213.3 Plumbing fixtures and accessories. ...**

11B-213.3.1 Toilet compartments. Where toilet compartments are provided, at least one toilet compartment shall comply with *Section 11B-604.8.1*. In addition to the compartment required to comply with *Section 11B-604.8.1*, at least one compartment shall comply with *Section 11B-604.8.2* where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures.

11B-213.3.1.1 Multiple user toilet room. *In toilet rooms where twenty or more toilet compartments are provided, at least two toilet compartments shall comply with Section 11B-604.8.1. In addition to the compartment required to comply with Section 11B-604.8.1, at least two*

compartments shall comply with Section 11B-604.8.2 where twenty or more compartments are provided, or where the combination of urinals and water closets totals twenty or more fixtures.

11B-213.3.2 Water closets. Where water closets are provided, at least one shall comply with Section 11B-604.

11B-213.3.2.1 Multiple user toilet room. In toilet rooms where twenty or more water closets are provided, at least two water closets shall comply with Section 11B-604.

11B-213.3.3 Urinals. Where one or more urinals are provided, at least one shall comply with Section 11B-605.

11B-213.3.3.1 Multiple user toilet room. In toilet rooms where ten or more urinals are provided, at least two urinals shall comply with Section 11B-605.

11B-213.3.4 Lavatories. Where lavatories are provided, at least five percent but no fewer than one shall comply with Section 11B-606 and shall not be located in a toilet compartment.

11B-213.3.4.1 Multiple user toilet room. In toilet rooms where ten or more lavatories are provided, at least two lavatories shall comply with Section 11B-606.

REASON: DSA-AC is proposing an amendment to increase the number of accessible toilet compartments, water closets, urinals and lavatories in multiple accommodation toilet facilities where due to the type of use and occupancy a greater number of compartments and fixtures is required. The fixture count is based on the minimum requirements in the California Plumbing Code for assembly occupancies of higher concentrations, e.g., convention halls, theaters, auditoriums etc. This amendment addresses the need for an increased number of accessible toilet facilities where, due to the number of users, wait times are excessive for persons with disabilities where only one accessible compartment or type of fixture is provided. Increase in construction cost is minimal due to the size of these multiple accommodation toilet facilities and the minimal increase required in square footage to provide for more than one accessible and ambulatory toilet compartment.

ITEM 11B.09

DIVISION 2: SCOPING REQUIREMENTS

11B-215 Fire alarm and carbon monoxide alarm systems

11B-215.1 General. Where fire alarm and carbon monoxide alarm systems provide audible alarm coverage, alarms shall comply with Section 11B-215.

Exception: In existing facilities, visible alarms for fire alarm systems shall not be required except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.

11B-215.2 Public and common use areas. ...

11B-215.3 Employee work areas. ...

11B-215.4 Transient lodging. Guest rooms required to comply with ~~Section~~ Sections 11B-224.4 and 11B-806.3 shall provide fire alarms complying with Chapter 9, ~~Section~~ Sections 907.5.2.3.3, 907.5.2.3.4, and 907.5.2.3.5. Where provided, carbon monoxide alarms shall comply with Chapter 4, Section 420.6.1.6.

11B-215.5 Residential facilities. Where provided in residential dwelling units required to comply with Section 11B-809.5, fire alarms shall comply with Chapter 9, Section 907.5.2.3.4 and carbon monoxide

alarms shall comply with Chapter 4, Section 420.6.1.6.

REASON: DSA-AC is proposing to amend this section to include visible alarm notification appliances for carbon monoxide detection systems in transient lodging facilities and residential facilities as required by the State of California.

RELATED ITEM 11B.09.1

11B-806 Transient lodging guest rooms

11B-806.3 Guest rooms with communication features. Guest rooms required to provide communication features shall comply with *Section 11B-806.3*.

11B-806.3.1 Alarms. Where emergency warning systems are provided, *fire* alarms shall complying with *Section 11B-702 shall be provided* and carbon monoxide alarms shall comply with Chapter 4, Section 420.6.1.6.

REASON: DSA-AC is proposing to amend this section in coordination with the related amendment to Section 11B-215 to include visible alarm notification appliances for carbon monoxide detection systems in transient lodging facilities and residential facilities as required by the State of California.

RELATED ITEM 11B.09.2

11B-809 Residential dwelling units

11B-809.5 Residential dwelling units with communication features. Residential dwelling units required to provide communication features shall comply with *Section 11B-809.5*.

11B-809.5.1 Building fire alarm system. ...

11B-809.5.2 Residential dwelling unit smoke detection system and carbon monoxide detection system. Residential dwelling unit smoke detection systems shall comply with *Chapter 9, Section 907.2.11. Residential dwelling unit carbon monoxide detection systems shall comply with Chapter 4, Section 420.6.*

11B-809.5.2.1 Activation. All visible alarm appliances provided within the residential dwelling unit for smoke detection notification shall be activated upon smoke detection. All visible alarm appliances provided within the residential dwelling unit for carbon monoxide detection notification shall be activated upon carbon monoxide detection.

11B-809.5.3 Interconnection. The same visible alarm appliances shall be permitted to provide notification of residential dwelling unit smoke detection, and building fire alarm activation, and carbon monoxide detection.

11B-809.5.4 Prohibited use. Visible alarm appliances used to indicate residential dwelling unit smoke detection, carbon monoxide detection, or building fire alarm activation shall not be used for any other purpose within the residential dwelling unit.

REASON: DSA-AC is proposing to amend this section in coordination with the related amendment to Section 11B-215 to include visible alarm notification appliances for carbon monoxide detection systems in transient lodging facilities and residential facilities as required by the State of California.

RELATED ITEM 11B.09.3

CHAPTER 4 – MATRIX ADOPTION TABLE

Adopting Agency		DSA-AC
Adopt entire Chapter		
Adopt entire Chapter as amended (amended Sections listed below)		
Adopt only those Sections that are listed below		X
Chapter / Section	Codes	
<u>419.7</u>		<u>X</u>
<u>420.6.1.6</u>		<u>X</u>

REASON: DSA-AC is proposing to amend the matrix adoption table for Chapter 4 to indicate the adoption of Section 420.6.1.6, related to the requirement for carbon monoxide detection systems. In addition, an omission is being corrected; the adoption of Section 419.7 for the accessibility of live/work units is being indicated.

----- RELATED ITEM 11B.09.4

Chapter 4, Section 420 Groups R-1, R-2, R-2.1, R-3, R-3.1 and R-4 420.6 Carbon monoxide alarms.

420.6.1.6 Visible Alarms. *In buildings containing covered multifamily dwellings as defined in Chapter 11A, transient lodging guest rooms as defined in Chapter 11B, and residential dwelling units as defined in Chapter 11B, with fuel-burning appliances and/or attached garages as described in Section 420.6.1, all required carbon monoxide alarms shall be equipped with the capability to support visible alarm notification in accordance with NFPA 720.*

REASON: DSA-AC is proposing to amend this section in coordination with the related amendment to Section 11B-215 to include visible alarm notification appliances for carbon monoxide detection systems in transient lodging facilities and residential facilities as required by the State of California.

ITEM 11B.10

DIVISION 2: SCOPING REQUIREMENTS

11B-216 Signs

11B-216.5 Parking. Signs identifying parking spaces and signs within parking facilities shall comply with Section 11B-216.5.

11B-216.5.1 Parking spaces. Parking spaces complying with Section 11B-502 shall be identified by signs complying with Section 11B-502.6.

Exceptions:

1. **Reserved.**
2. In residential facilities, where parking spaces are assigned to specific residential dwelling units, identification of accessible parking spaces shall not be required.

11B-216.5.2 Parking facilities. Signs intended for use by pedestrians within parking facilities shall comply with the requirements of Section 11B-216. In multi-level parking facilities, directional or informational signs indicating parking levels shall comply with Section 11B-216.3.

REASON: DSA-AC is proposing to add new Section 11B-216.5.2 to clarify the requirements for signs within parking facilities. Signs intended for use by pedestrians are required to comply with the requirements of Section 11B-216, including the requirements of Section 11B-216.2 for signs identifying permanent rooms and spaces, Section 11B-216.3 for directional and informational signs, and 11B-216.4 for means of egress signs. Language is added to clarify that in multi-level parking facilities, overhead signs indicating parking levels are considered directional or informational signs and must comply with Section 11B-216.3. In coordination with the amendment to this section, a corresponding change is being made to 11B-216.1 to repeal Exception 2. Signs provided solely for the use of persons operating vehicles are not regulated by Chapter 11B, except for signs identifying accessible parking spaces. The requirements for signs identifying accessible parking spaces are contained in Section 11B-216.5.1.

----- RELATED ITEM 11B.10.1

11B-216 Signs

11B-216.1 General. *New or altered signs shall be provided in accordance with Section 11B-216 and shall comply with Section 11B-703. The addition of or replacement of signs shall not trigger any additional path of travel requirements.*

Exceptions:

1. ...
2. **Reserved.** ~~In parking facilities, signs provided solely for the operation of vehicles shall not be required to comply with Sections 11B-216.2, 11B-216.3, and 11B-216.6 through 11B-216.12.~~
3. ...
4. ...

REASON: In coordination with the amendment to Section 11B-216.5, DSA-AC is proposing a corresponding change to 11B-216.1 to repeal Exception 2. The text of this exception is being repealed and replaced with the term “reserved” to maintain the numbering sequence. Signs provided solely for the use of persons operating vehicles are not regulated by Chapter 11B, except for signs identifying accessible parking spaces. The requirements for signs identifying accessible parking spaces are contained in Section 11B-216.5.1.

ITEM 11B.11

DIVISION 2: SCOPING REQUIREMENTS

11B-216 Signs

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

or entrance on a sign complying with Section 11B-703.5, including the International Symbol of Accessibility complying with Section 11B-703.7.2.1.

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. The 2010 CBC, Section 1115B.6 contains a provision requiring geometric symbol signs at all doorways leading to toilet and bathing rooms. An inadvertent error was introduced into 2013 CBC, Section 11B-216.8 requiring geometric symbol signs only at accessible restroom and bathing rooms. The error is now being corrected to prevent any possible confusion about the requirement for geometric symbol signs.

ITEM 11B.12

DIVISION 2: SCOPING REQUIREMENTS

11B-221 Assembly areas

~~11B-221.2.5 Removable chairs.~~ ~~When required wheelchair spaces are not occupied by persons eligible for those spaces, individual, removable seats may be placed in those spaces.~~

REASON: DSA-AC is proposing to repeal this section which describes operational procedures associated with placing chairs in wheelchair spaces when not occupied by persons eligible for those spaces. The provision stating that “*removable seats may be placed in those areas*” is essentially unenforceable by building officials. DSA-AC is proposing to include the repealed language, along with additional explanatory language, in an advisory within the Companion Manual to the 2013 California Building Code to clarify this operational procedure is at the discretion of the owner or operator of the facility.

ITEM 11B.13

DIVISION 2: SCOPING REQUIREMENTS

11B-224 Transient lodging guest rooms and housing at a place of education

11B-224.1 General. *Hotels, motels, inns, dormitories, resorts, housing at a place of education and similar transient lodging facilities shall provide guest rooms in accordance with Section 11B-224.*

11B-224.1.4 Housing at a place of education. *Housing at a place of education subject to this section shall comply with Sections 11B-224 and 11B-806 for transient lodging guest rooms. For the purposes of the application of this section, the term “sleeping room” is interchangeable with “guest room” as used in the transient lodging standards.*

EXCEPTIONS:

1. ...
2. ...
3. ~~Residential dwelling units~~ Apartment or townhouse facilities that are provided by or on behalf of a place of education, which are leased on a year round basis exclusively to graduate students or faculty, and do not contain any public use or common use areas available for educational programming, are not subject to ~~this section~~ the transient lodging standards and shall comply with Sections 11B-233 and 11B-809.

REASON: DSA-AC is proposing to amend the exception to this section to clarify the scoping requirements for graduate student or faculty housing. The 28 CFR Part 36, Section 36.406(e)(3) requires apartments or townhouse facilities leased to graduate students or faculty on a year round basis to comply with Sections 233 and 809 of the 2010 ADAAS. An inadvertent error was introduced into the 2013 CBC requiring any residential dwelling units leased to graduate students or faculty to comply with Sections 11B-233 and 11B-809. This error is being corrected by deleting the language “residential dwelling units” and adding the language “apartments or townhouse facilities”. A related change is being made to Section

11B-223.3.6. The title of Section 11B-224 and Section 11B-224.1 are being amended to include “housing at a place of education”. These amendments will provide clarity and consistency for code users.

RELATED ITEM 11B.13.1

11B-233 Residential facilities

11B-233.3.6 Graduate student and faculty housing at a place of education. ~~Residential dwelling units~~ *Apartments or townhouse facilities that are provided by or on behalf of a place of education, which are leased on a year round basis exclusively to graduate students or faculty, and do not contain any public use or common use areas available for educational programming, are not subject to Section 11B-224 and shall comply with Sections 11B-233 and 11B-809.*

REASON: DSA-AC is proposing to amend this section in coordination with the related amendment to 11B-224.1.4, Exception 3.

ITEM 11B.14

DIVISION 2: SCOPING REQUIREMENTS

11B-224.1.4 Housing at a Place of Education. *Housing at a place of education subject to this section shall comply with Sections 11B-224 and 11B-806 for transient lodging guest rooms. For the purposes of the application of this section, the term “sleeping room” is interchangeable with “guest room” as used in the transient lodging standards.*

EXCEPTIONS:

1. ...
2. ...
3. ...

11B-224.1.4.1 Undergraduate housing units with adaptable features. *Undergraduate housing units with adaptable features shall be provided as required by Section 11B-233.3.1.2.*

Exception: *The number of required adaptable undergraduate housing units shall be reduced by the number of units required by Section 11B-224.2.*

REASON: DSA-AC is proposing an amendment to carry forward and incorporate an accessibility provision of the 2010 CBC which was inadvertently omitted in the development of the 2013CBC. The 2010 CBC, Sections 1111B.4.5 and 1111B.5 required dormitory rooms to comply with the adaptability requirements of Chapter 11A. This amendment will carry forward the requirement for adaptable undergraduate housing units and provide clarity and consistency for code users.

RELATED ITEM 11B.14.1

CHAPTER 2

Definition of UNDERGRADUATE HOUSING UNIT

UNDERGRADUATE HOUSING UNIT. [DSA-AC] *A housing unit such as an apartment, or dormitory with either a kitchen and/or toilet and bathing rooms within the unit. Undergraduate housing units are separate from one another and from common use spaces within a building.*

REASON: DSA-AC is proposing to add a definition of “undergraduate housing unit” in coordination with the related amendment to Section 11B-224.1.4.1.

ITEM 11B.15**DIVISION 2: SCOPING REQUIREMENTS****11B-226 Dining surfaces and work surfaces**

11B-226.3 Dining surfaces exceeding 34 inches in height. *Where food or drink is served for consumption at a counter dining surface exceeding 34 inches (864 mm) in height is provided for the consumption of food or drink, a portion of the main counter dining surface 60 inches (1525 mm) minimum in length shall be provided in compliance with Section ~~11B-902.3~~ 11B-902.*

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. The 2010 CBC, Section 1104B.5, Item 4 contains a provision requiring counter dining surfaces exceeding 34 inches in height to comply with the requirements of 2010 CBC, Section 1122B. Section 1122B contains clear floor space, knee and toe clearance, and height requirements. An inadvertent error was introduced into 2013 CBC, Section 11B-226.3 requiring counter dining surfaces to comply with the height requirements of Section 11B-902.3 only. The error is now being corrected to prevent any possible confusion. Counter dining surfaces will be required to comply with the requirements of Section 11B-902 in its entirety, including clear floor space and knee and toe clearances. In addition, the language of this section is being amended to clarify that this section applies to counter dining surfaces where food or drink is consumed, and is not limited to counter dining surfaces where food or drink is served.

ITEM 11B.16**DIVISION 2: SCOPING REQUIREMENTS****11B-226 Dining surfaces and work surfaces**

11B-226.4 Baby changing tables. *Baby changing tables shall comply with Sections 11B-309 and 11B-902.*

REASON: DSA-AC is proposing to add a new subsection to Section 11B-226 to provide scoping requirements specific to baby changing tables. Baby changing tables are considered work surfaces and are required to comply with the requirements of Section 11B-902, including requirements for clear floor space, forward approach, toe and knee clearance, and height. In addition, operable parts such as handles or latches must comply with the requirements of Section 11B-309, which includes complying with Section 11B-308 reach ranges. Baby changing tables are commonly installed in toilet and bathing facilities. DSA-AC is proposing to add a new exception to Section 11B-603.5 exempting baby changing tables from the requirement for operable parts to be located 40 inches maximum above the finish floor. These amendments will provide clarity and consistency for code users.

RELATED ITEM 11B.16.1**11B-603 Toilet and bathing rooms**

11B-603.5 Accessories. *Where towel or sanitary napkin dispensers, waste receptacles, or other accessories are provided in toilet facilities, at least one of each type shall be located on an accessible route. All operable parts, including coin slots, shall be 40 inches (1016 mm) maximum above the finish floor.*

Exception: *Baby changing tables complying with 11B-226.4 are not required to have operable parts at 40 inches (1016 mm) maximum above the finish floor.*

REASON: Baby changing tables are commonly installed in toilet and bathing facilities. DSA-AC is

proposing to add a new exception to Section 11B-603.5 in coordination with the proposed addition of scoping for baby changing tables to Section 11B-226.4. The exception will exempt baby changing tables from the requirement for operable parts to be located 40 inches maximum above the finish floor within toilet and bathing facilities. These amendments will provide clarity and consistency for code users.

ITEM 11B.17**DIVISION 2: SCOPING REQUIREMENTS****11B-227 Sales and service**

11B-227.2 Check-out aisles. Where check-out aisles are provided, check-out aisles complying with Section 11B-904.3 shall be provided in accordance with Table 11B-227.2. Where check-out aisles serve different functions, check-out aisles complying with Section 11B-904.3 shall be provided in accordance with Table 11B-227.2 for each function. Where check-out aisles are dispersed throughout the building or facility, check-out aisles complying with Section 11B-904.3 shall be dispersed. ~~When check-out aisles are open for customer use, a minimum of one accessible check-out aisle shall always be available. As check-out aisles are opened and closed based on fluctuating customer levels, the number of accessible check-out aisles available shall comply with Table 11B-227.2. When not all check-out aisles are accessible, accessible check-out aisles shall be identified by a sign complying with Section 11B-904.3.4.~~

Exception: In existing buildings, where the selling space is under 5000 square feet (465 m²) no more than one check-out aisle complying with Section 11B-904.3 shall be required.

Table 11B-227.2 Check-Out Aisles

Number of Check-Out Aisles of Each Function	Minimum Number of Check-Out Aisles of Each Function Required to Comply with 11B-904.3
1 to 4	1
5 to 8	2
9 to 15	3
16 and over	3, plus 20 percent of additional aisles

REASON: DSA-AC is proposing to repeal the provisions within this section which describe operational procedures associated with check-out aisle use rather than provide building code requirements associated with check-out aisle design and construction. The provision stating that “*when check-out aisles are open for customer use, a minimum of one accessible check-out aisle shall always be available*” and the provision stating “*as check-out aisles are opened and closed based on fluctuating customer levels, the number of accessible check-out aisles available shall comply with Table 11B-227.2*” are essentially unenforceable by building officials. DSA-AC is proposing to include the repealed language, along with additional explanatory language, in an advisory within the Companion Manual to the 2013 California Building Code to clarify that operational procedures are necessary to ensure the Americans with Disabilities Act accessibility requirements are met.

ITEM 11B.18**DIVISION 2: SCOPING REQUIREMENTS****11B-233 Residential facilities**

11B-233.2 Reserved. Residential dwelling units provided by entities subject to HUD Section 504 Regulations. ~~Where public housing facilities with residential dwelling units are provided by entities subject to regulations issued by the Department of Housing and Urban Development (HUD) under Section 504 of the Rehabilitation Act of 1973, as amended, such entities shall provide residential dwelling units with mobility features complying with Sections 11B-809.2 through 11B-809.4 in a number required~~

by the applicable HUD regulations. Residential dwelling units required to provide mobility features complying with Sections 11B-809.2 through 11B-809.4 shall be on an accessible route as required by Section 11B-206. In addition, such entities shall provide residential dwelling units with communication features complying with Section 11B-809.5 in a number required by the applicable HUD regulations. Entities subject to Section 11B-233.2 shall not be required to comply with Section 11B-233.3.

REASON: DSA-AC is proposing to repeal the provision for residential dwelling units provided by entities subject to HUD Section 504 Regulations. The number of residential dwelling units required to provide mobility and communication features in Section 11B-233.2 is consistent with the number required Section 233.3. The Fair Housing Act scoping provisions are codified in Chapter 11B of the CBC, Section 11B-233.3. However the last sentence in Section 11B-233.2 negates complying with requirements within the building code for compliance with Section 11B-233.3 for entities subject to HUD regulations. This in effect allows entities subject to HUD Section 504 Regulations in Section 11B-233.2 to provide a lesser number of accessible residential dwelling units by not requiring the number of residential dwelling units with adaptable features required in Section 11B-233.3. This amendment reinstates the number of residential dwelling units required to be adaptable and provides clarity for the code user.

----- RELATED ITEM 11B.18.1

Chapter 2 Definition of PUBLIC HOUSING

PUBLIC HOUSING. [DSA-AC] *Housing facilities owned and/or operated by, for or on behalf of a public entity including but not limited to the following:*

1. *Publically owned and/or operated one- or two- family dwelling units or congregate residences;*
2. *Publically owned and/or operated buildings or complexes with three or more residential dwellings units;*
3. ~~*Reserved: Publically owned and/or operated housing provided by entities subject to regulations issued by the United State Department of Housing and Urban Development under Section 504 of the Rehabilitation Act of 1973 as amended;*~~
4. *Publically owned and/or operated homeless shelters, group homes and similar social service establishments;*
5. *Publically owned and/or operated transient lodging, such as hotels, motels, hostels and other facilities providing accommodations of a short term nature of not more than 30 days duration;*
6. *Housing at a place of education owned or operated by a public entity, such as housing on or serving a public school, public college or public university campus;*
7. *Privately owned housing made available for public use as housing.*

REASON: DSA-AC is proposing to repeal Item 3 in the definition of “public housing” in coordination with the related repeal of Section 11B-233.2 and amendment to Section 11B-233.3. The reference to United States Department of Housing and Urban Development will no longer be used in the California Building Code.

ITEM 11B.19

DIVISION 2: SCOPING REQUIREMENTS

11B-233 Residential facilities

11B-233.3 Public housing facilities. ~~Residential dwelling units provided by entities not subject to HUD Section 504 Regulations.~~ Public housing facilities with residential dwelling units provided by entities not subject to regulations issued by the Department of Housing and Urban Development (HUD) under Section 504 of the Rehabilitation Act of 1973, as amended, shall comply with Section 11B-233.3.

REASON: DSA-AC is proposing to amend this section to repeal the provisions for entities not subject to regulations issued by the Department of Housing and Urban Development (HUD). The scoping and technical sections in Chapter 11B, Section 11B-233.3 adopted in the 2013 CBC, provide for the number of residential dwelling units required by HUD for units with mobility and communication features as well as the number of units required to have adaptable features. Repealing the reference to regulations issued by HUD will provide for clarity and consistency for code users and maintains the current level of accessibility for public housing facilities in California.

ITEM 11B.20

DIVISION 3: BUILDING BLOCKS

11B-307 Protruding objects

11B-307.3 Post-mounted objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths ~~12 inches (305 mm)~~ **4 inches (102 mm)** maximum when located 27 inches (686 mm) minimum and 80 inches (2032 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (686 mm) maximum or 80 inches (2032 mm) minimum above the finish floor or ground.

Exception: The sloping portions of handrails serving stairs and ramps shall not be required to comply with Section 11B-307.3.

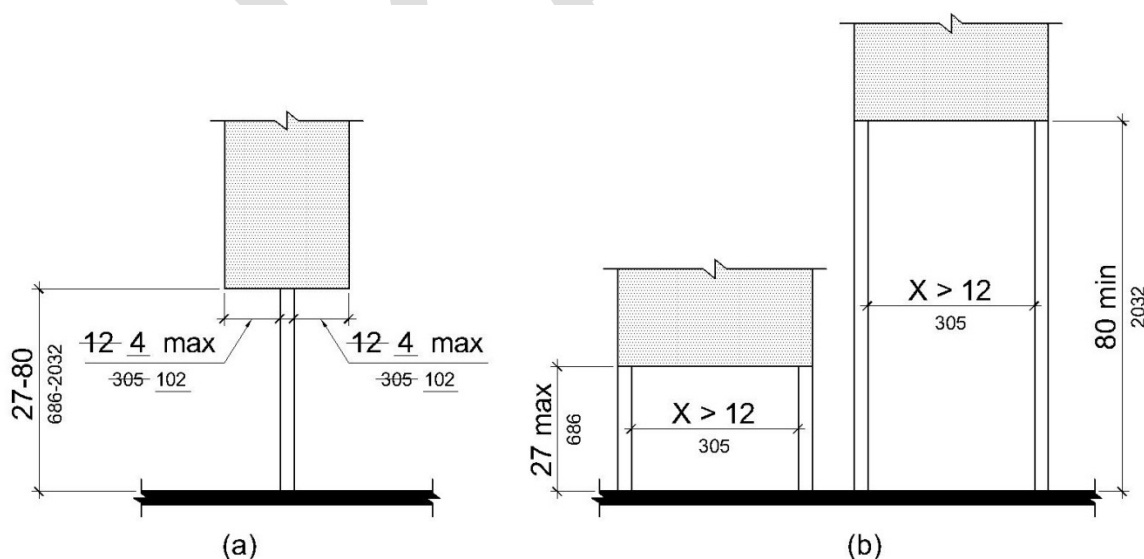


Figure 11B-307.3
Post-Mounted Protruding Objects

REASON: DSA-AC is proposing to amend this section to eliminate a conflict between the requirements of Chapters 10 and 11B. Chapter 10, Section 1003.3.2 requires, "A free-standing object mounted on a post

or pylon shall not overhang that post or pylon more than 4 inches (102 mm) where the lowest point of the leading edge is more than 27 inches (686 mm) and less than 80 inches (2032 mm) above the walking surface.” This Chapter 11B section requires, “Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (686 mm) minimum and 80 inches (2032 mm) maximum above the finish floor or ground.” DSA-AC is amending Section 11B-307.3 to require a 4 inch maximum overhang consistent with the requirements of Chapter 10. Figure 11B-307.3 is being amended in coordination with the change to this section. These amendments will provide clarity and consistency for code users.

ITEM 11B.21

DIVISION 3: BUILDING BLOCKS

11B-307 Protruding objects

11B-307.4 Vertical clearance. Vertical clearance shall be 80 inches (2032 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2032 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (686 mm) maximum above the finish floor or ground. ~~Where a guy support is used parallel to a circulation path, including but not limited to sidewalks, a guy brace, sidewalk guy or similar device shall be used to prevent an overhanging obstruction.~~

Exception: Door closers and door stops shall be permitted to be 78 inches (1981 mm) minimum above the finish floor or ground.

11B-307.4.1 Guy braces. Where a guy support is used either in the width of a circulation path, including but not limited to sidewalks, or outside of a circulation path 24 inches maximum from its edge, a guy brace, sidewalk guy or similar device shall be used to prevent an overhanging obstruction.

REASON: DSA-AC is proposing clarification of the requirements for guys braces to establish a clearly enforceable provision based upon the proximity of a guy support to an accessible route or general circulation path. The current language stating “*Where a guy support is used parallel to a circulation path, . . .*” provides no direction as to how close to the edge of a circulation path the guy support must be to trigger the requirement. The two foot dimension is based on one half the width of an accessible route that vision impaired individuals using a cane would be scanning for vertical elements.

ITEM 11B.22

DIVISION 3: BUILDING BLOCKS

11B-308 Reach ranges

11B-308.1 General. Reach ranges shall comply with *Section 11B-308*.

11B-308.2 Forward reach. ...

11B-308.3 Side reach. ...

11B-308.4 Reach ranges for children. Where building elements such as coat hooks, lockers, or operable parts are designed for use primarily by children, the suggested dimensions of Table 11B-308.4 may be used. These dimensions apply to either forward or side reaches.

Table 11B-308.4 Suggested Dimensions for Children’s Use

<u>Suggested Reach Ranges for Children Ages 3 through 12</u>

<u>Forward or Side Reach</u>	<u>Ages 3 and 4</u>	<u>Ages 5 through 8</u>	<u>Ages 9 through 12</u>
<u>High (maximum)</u>	<u>36 in (915 mm)</u>	<u>40 in (1015 mm)</u>	<u>44 in (1120 mm)</u>
<u>Low (minimum)</u>	<u>20 in (510 mm)</u>	<u>18 in (455 mm)</u>	<u>16 in (405 mm)</u>

REASON: DSA-AC is proposing to add a new section to provide suggested reach range dimensions when elements are designed for use primarily by children. The model code contained advisory language regarding reach ranges for children according to age where building elements such as coat hooks, lockers, or operable parts are designed for use primarily by children. The proposed new section and table incorporate the model code advisory language dimensions. These dimensions apply to either forward or side reaches. Accessible elements and operable parts designed for adult use or children over age 12 can be located outside these ranges but must be within the adult reach ranges required by Sections 11B-308.2 and 11B-308.3.

ITEM 11B.23

DIVISION 4: ACCESSIBLE ROUTES

11B-403 Walking surfaces

11B-403.5 Clearances. ...

11B-403.5.1 Clear width. Except as provided in Sections 11B-403.5.2 and 11B-403.5.3, the clear width of walking surfaces shall be 36 inches (914 mm) minimum.

Exceptions:

1. ...
2. ...
3. ...
4. ...
5. The clear width for accessible routes to accessible toilet compartments shall be 44 inches (1118 mm) except for door-opening widths and door swings.

REASON: DSA-AC is proposing an amendment to carry forward and incorporate an accessibility provision of the 2010 California Building Code which was inadvertently omitted in the development of the 2013 California Building Code. Section 1115B.3.1, Item 4.4, of the 2010 California Building Code required clear, unobstructed access of not less than 44 inches to toilet compartments designed for use by persons with disabilities. The 2010 California Building Code language is being revised for consistency with model code format and terminology.

ITEM 11B.24

DIVISION 4: ACCESSIBLE ROUTES

11B-404 Doors, doorways, and gates

11B-404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 11B-404.2.

EXCEPTIONS:

1. ...
2. ...

- ~~3. Doors, doorways, and gates not providing full user passage shall provide a clear width of 20 inches (510 mm) minimum.~~

REASON: DSA-AC is proposing to repeal the provision requiring doors, doorways, and gates not providing full user passage to provide a clear width of 20 inches (510 mm) minimum. This provision was carried forward from the 2010 California Building Code, Section 1133B.2.2, Exception; the 2010 ADA Standards do not contain a comparable provision. The technical provisions of 11B-404 and 11B-404.2 apply only to manual doors, doorways or gates intended for user passage. The requirement for a clear width of 20 inches minimum at doors or gates not intended for user passage, prohibits the use of smaller doors where necessary to access chases or other similar uses. Repealing this provision eliminates the potential for this type of conflict.

ITEM 11B.25

DIVISION 4: ACCESSIBLE ROUTES

11B-406 Curb ramps, blended transitions and islands

~~**11B-406.5.11 Grooved border.** Curb ramps shall have a grooved border 12 inches (305 mm) wide along the top of the curb ramp at the level surface of the top landing and at the outside edges of the flared sides. The grooved border shall consist of a series of grooves ¼ inch (6.4 mm) wide by ¼ inch (6.4 mm) deep, at ¾ inch (19 mm) on center.~~

Exceptions:

- ~~1. At parallel curb ramps, the grooved border shall be on the upper approach immediately adjacent to the curb ramp across the full width of the curb ramp.~~
- ~~2. A grooved border shall not be required at blended transitions.~~

REASON: DSA-AC is proposing to repeal the provision for a grooved border at the top landing and the outside edges of the flared sides of curb ramps. Grooves cannot be reliably detected by people with vision impairments and can be confused with grooves between sidewalk panels and cracks in the sidewalk. Grooves can generally only be detected when a cane is kept in constant contact with the ground when this method is used to scan the environment. In addition snow, ice, dirt, weeds and other debris can collect in grooves and obscure any warning intended. The cost associated with providing the grooved borders in new construction and alterations outweighs the negligible benefit grooves may provide. These findings are documented in studies commissioned by the U. S. Access Board – *Detectable Warnings; Synthesis of U. S. and International Practice* and U.S. Department of Transportation – *Designing Sidewalks and Trails for Access, Part II of II: Best Practices Design Guide*.

ITEM 11B.26

DIVISION 4: ACCESSIBLE ROUTES

11B-407 Elevators

11B-407.4.1 Car dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 11B-407.4.1.

Exception: *In existing buildings, where existing shaft configuration or technical infeasibility prohibits strict compliance with Section 11B-407.4.1, existing elevator car configurations that provide a clear floor area of 18 square feet (1.67 m²) minimum and also provide an inside clear depth 54 inches (1372 mm) minimum and a clear width 48 inches (1219 mm) minimum shall be permitted.*

REASON: DSA-AC proposes to amend this section to provide clarity and consistency for code users. Section 11B-202.3, Exception 2, provides relief from the requirement for accessibility during alterations of

existing elements and spaces when the enforcing authority determines compliance is technically infeasible. DSA-AC is proposing to delete the duplicative application of technical infeasibility in the exception to this section specific to existing elevator shaft configurations. A wide range of factors is considered by a building official when making a determination of technical infeasibility, and cannot be limited solely to the dimension of an existing elevator shaft as in the exception to this section. Additionally, Section 11B-202.3, Exception 2 requires equivalent facilitation or the compliance with accessible requirements to the maximum extent feasible, while the exception to this section does not.

ITEM 11B.27**DIVISION 4: ACCESSIBLE ROUTES****11B-411 Destination-oriented elevators**

11B-411.1 General. *Destination-oriented elevators shall comply with Section 11B-411 and with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.*

11B-411.2 Elevator landing requirements. *Elevator landings shall comply with Section 11B-411.2.*

11B-411.2.1 Call consoles. *Elevator call consoles shall comply with Sections 11B-411.2.1 and 11B-309.4.*

11B-411.2.1.1 Height. *Call consoles shall be located within one of the reach ranges specified in Section 11B-308, measured to the centerline of the highest operable part.*

11B-411.2.1.2 Clear floor or ground space. *A clear floor or ground space complying with Section 11B-305 shall be provided at call consoles.*

11B-411.2.1.3 Location. *Call consoles shall be provided at each elevator lobby on each floor, wall-mounted, and located adjacent to each hoistway entrance.*

Exception: *Additional call consoles may be provided outside the elevator lobby and may be wall-mounted, pedestal-mounted, or mounted on a kiosk or security turnstile.*

11B-411.2.1.4 Call console required features. *Call consoles shall include a touch screen or keypad with display screen, an accessibility function button, and audio output loudspeaker. The top of the call console shall be sloped away from the user at 15 to 25 degrees from the vertical plane.*

11B-411.2.1.4.1 Keypads. *Where keypads are provided they shall be located within one of the reach ranges specified in Section 11B-308. Keypads shall be in a 12-key ascending telephone keypad layout with buttons identified by characters a minimum of 5/8 inch high and complying with Sections 11B-703.5.3, 11B-703.5.4, and 11B-703.5.7 and shall be centered on the corresponding button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and a height of 0.025 inch (0.6 mm) minimum and 0.037 inch (0.9 mm) maximum. Keypads shall have a star button (★) in the lower left corner and a minus sign (-) button in the lower right corner. From any level above and below the main egress level, when the star button is pressed on the keypad an elevator shall be dispatched to the main egress level.*

11B-411.2.1.4.2 Touch screen. *Where touch screens are provided they shall be located within one of the reach ranges specified in Section 11B-308. Touch screen display shall comply with Section 11B-411.2.1.4.6.*

11B-411.2.1.4.3 Accessibility function button. *An accessibility function button shall activate audible tones and provide verbal announcements. The button shall be identified by the International Symbol of Accessibility and a raised indication. The International Symbol of Accessibility shall comply with Section 11B-703.7.2.1, shall be 5/8 inch (16mm) in height. The indication shall be three raised dots. Each dot shall be 0.59 inch (1.5 mm) to 0.063 inch (1.6 mm) base diameter and a height of 0.025 inch (0.6 mm) minimum and 0.037 inch (0.9 mm) maximum. The dots shall be spaced 1/4 inch (6.4 mm), measured center to center, in the form of an equilateral triangle with a vertex pointing up.*

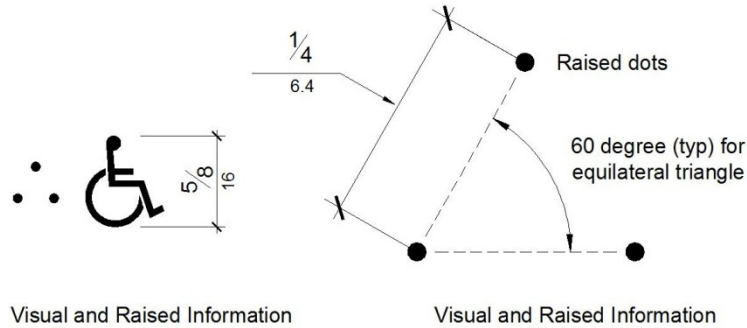


Figure 11B-411.2.1.4.3
Destination-Oriented Elevator Indication

11B-411.2.1.4.4 Additional console buttons. *Any buttons in addition to the accessibility function button and the keypad shall be arranged in columns to the right of the keypad with horizontal spacing 1.5 times the horizontal spacing between the numeric keys and with the same vertical spacing as the numeric keys. Buttons shall be identified by raised characters, white on a black background, complying with Section 11B-703.2 and Braille complying with Section 11B-703.3.*

11B-411.2.1.4.5 Button requirements. *Keypad buttons, the accessibility function button, and additional console buttons shall have square shoulders, be 3/4 inch (19.1 mm) minimum in the smallest dimension and shall be raised 1/8 inch (3.2 mm) plus or minus 1/32 inch (0.8 mm) above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.*

11B-411.2.1.4.5.1 Finish. *Buttons shall have a non-glare finish.*

11B-411.2.1.4.5.2 Contrast. *Buttons shall have white characters on a black surface.*

11B-411.2.1.4.6 Display screen. *A display screen shall provide indicate the assignment to the designated elevator. Display screens shall be visible from a point located 40 inches (1016 mm) above the center of the clear floor space in front of the call console.*

11B-411.2.1.4.6.1 Contrast. *Display screens shall provide contrast with light characters on a dark, solid, static background.*

11B-411.2.1.4.6.2 Size. *Visual display of elevator assignment characters shall be 5/8 inch high (15.9 mm) minimum.*

11B-411.2.1.4.6.3 Duration. *Elevator assignment characters shall be displayed for a minimum of 5 seconds.*

11B-411.2.1.4.7 Audio output. *Upon activation of the accessibility function button, call consoles shall provide audible tones and verbal announcements, including but not limited to*

operating instructions, user input verification, direction to the designated elevator, and error messages. Verbal output shall be recorded or digitized human speech, and shall be delivered through a loudspeaker. Auditory volume shall be at least 10 dB above ambient sound level, but shall not exceed 80 dB, measured 36 inches (915 mm) in front of the console. At call console locations where the ambient sound level varies, auditory volume shall be maintained at the required volume by an automatic gain control or shall be set at not less than 75 dB.

11B-411.2.1.4.8 Arrangement. Call console arrangement shall comply with Section 11B-411.2.1.4.7.

11B-411.2.1.4.8.1 Keypad call console arrangement. The display screen shall be located directly above the keypad. The accessibility function button shall be located directly below the keypad. Security or access control system card readers, if provided, shall be located directly below the accessibility function button. Where provided, additional console buttons shall comply with Section 11B-411.2.1.4.3.

11B-411.2.1.4.8.2 Touch screen call console arrangement. The accessibility function button shall be located directly above or directly below the touch screen. Security or access control system card readers, if provided, shall be the lowest element on the console. Where provided, additional console buttons shall comply with Section 11B-411.2.1.4.3.

11B-411.2.1.4.9 Identification of floors served. In buildings with two or more elevator banks, each serving a different group of specific floors, call consoles located on floors with a building entry, including parking and transfer levels, shall be provided with signage complying with Section 11B-216.2 on or above the surface of the call console stating "FLOORS n1 – n2", where n1- n2 represents the range of floors served.

11B-411.2.1.4.10 Elevator car assignment. Elevator car assignment shall comply with Section 11B-411.2.1.4.10.

11B-411.2.1.4.10.1 Assignment by keypad call console. When the accessibility function button is pressed the audio output shall provide a verbal announcement of the floors served by the elevator group and an instruction for the user to enter a destination floor. Within two seconds of user input, a verbal announcement shall indicate the destination floor that was entered.

11B-411.2.1.4.10.2 Assignment by touch screen call console. When the accessibility function button is pressed the audio output shall provide a verbal announcement of the floors served by the elevator group and instruction for the user to press the accessibility function button as a response to verbal direction in order to select the destination floor.

11B-411.2.1.4.10.3 Assignment by security credential. If a security system or other form of access control system is provided, the audio output shall provide a verbal announcement such as "present security credential".

11B-411.2.1.4.10.4 Direction to assigned car. Visual and verbal direction to the assigned elevator shall be provided. A unique audible signal and a verbal announcement shall indicate the elevator designated to respond to the call. The audio output shall make an audible or verbal indication of an invalid input.

11B-411.2.1.4.11 Adjacency assignment. The elevator car most adjacent to the call console shall be assigned.

11B-411.2.2 Hall signals. The assigned elevator car designation shall be provided by a visible signal, audible signal, and an automatic verbal annunciator complying with Section 11B-411.2.2.

11B-411.2.2.1 Visible designation signal. Above or adjacent to each elevator car entrance there shall be a visible designation signal. The signal fixture shall be 80 inches (2032 mm) minimum above the finish floor or ground to the bottom of the fixture. The signal element shall be a minimum 4 inches (102 mm) high and 4 inches (102 mm) wide. The signal element shall illuminate upon car arrival and shall include the elevator car designation letter with a upper case character with a height of 2 (51mm) inches minimum and complying with 11B-703.5.1, 11B-703.5.3, 11B-703.5.4, and 11B-703.5.7. The signal fixture shall be visible from the floor area in front of the call console adjacent to the hoistway entrance.

Exception: Existing buildings may have a visible designation signal fixture adjacent to each elevator car entrance centered at 72 inches (1829 mm) above the finish floor or ground with a visible signal element a minimum of 2½ inches (64 mm) high and 2½ inches (64 mm) wide.

11B-411.2.2.2 Audible signal. An audible signal identical to the audible signal given at the call console shall be provided. The audible signal shall have a frequency of 1500 Hz maximum. The audible signal shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the call console located immediately adjacent to the elevator.

11B-411.2.2.3 Verbal annunciator. The verbal annunciator shall provide a verbal announcement identical to the verbal announcement given at the call console. The verbal annunciator shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the call console located immediately adjacent to the elevator.

11B-411.2.3 Hoistway signs. Signs at elevator hoistways shall comply with Section 11B-411.2.3.

11B-411.2.3.1 Floor designation. Floor designations complying with Sections 11B-703.2 and 11B-703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both raised characters and Braille. Raised characters shall be 2 inches (51 mm) high. A raised star placed to the left of the floor designation, shall be provided on both jambs at the main entry level. The outside diameter of the star shall be 2 inches (51 mm) and all points shall be of equal length. Raised characters, including the star, shall be white on a black background. 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". Floor designations shall be numeric characters only. Floor levels below the main entry level shall be designated "minus one" (-1) and shall decrease by one for each successive lower floor. Applied plates are acceptable if they are permanently fixed to the jamb.

11B-411.2.3.2 Car designation. Car identification complying with Sections 11B-703.2 and 11B-703.4.1 shall be provided on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both raised characters and Braille. Raised characters shall be 2 inches (51 mm) high. Raised characters shall be white on a black background. Braille complying with Section 11B-703.3 shall be placed below the corresponding raised characters. Elevator cars shall be designated with a single alphabetic character. Applied plates are acceptable if they are permanently fixed to the jamb.

Exception: Elevator systems with more than 26 elevators may use alpha-numeric designations such as "A1".

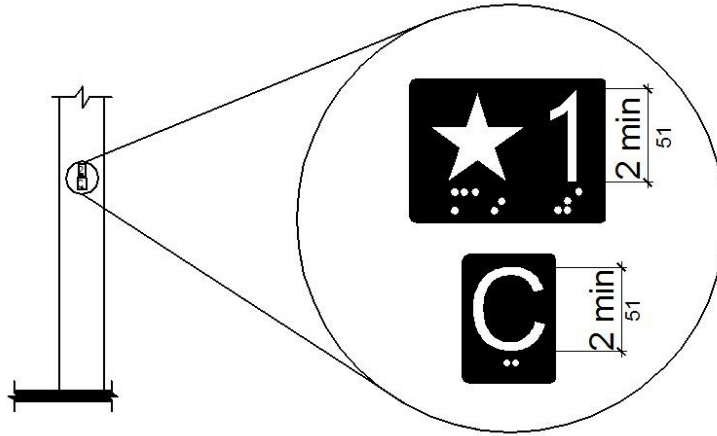


Figure 11B-411.2.3
Floor Designations and Car Designations on Jamb
of Destination-Oriented Elevator Hoistway Signs

411.2.4 Floor Destination Indicators. *There shall be on each elevator car door jamb or in the elevator lobby on the wall adjacent to the elevator car entrances a visual display indicating floor destinations.*

11B-411.2.4.1 Height. *Visual display of floor destination characters shall be minimum 5/8 inch (15.9 mm) high.*

11B-411.2.4.2 Contrast. *Visual display of floor destination indicators shall provide contrast with light characters on a dark, solid, static background.*

11B-411.2.4.3 Duration. *Visual display of floor assignment characters shall be illuminated for a minimum of 5 seconds.*

11B-411.3 Elevator door requirements. *Hoistway and car doors shall comply with Section 11B-411.3.*

11B-411.3.1 Type. *Elevator door type shall comply with Section 11B-407.3.1.*

11B-411.3.2 Operation. *Elevator hoistway and car doors shall open and close automatically.*

11B-411.3.3 Reopening device. *Elevator doors shall be provided with a reopening device complying with Section 11B-411.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.*

11B-411.3.3.1 Height. *The height of the reopening device shall comply with Section 11B-407.3.3.1.*

11B-411.3.3.2 Contact. *The device contact shall comply with Section 11B-407.3.3.2.*

11B-411.3.3.3 Duration. *The door reopening device duration shall comply with Section 11B-407.3.3.3.*

11B-411.3.4 Door delay. *Door delay shall comply with Section 11B-407.3.5.*

11B-411.3.5 Width. *The width of elevator doors shall comply with Table 11B-407.4.1.*

11B-411.4 Elevator car requirements. *Elevator cars shall comply with Section 11B-411.4.*

11B-411.4.1 Car dimensions. *Inside dimensions of elevator cars and clear width of elevator doors shall comply with Section 11B-407.4.1.*

11B-411.4.2 Floor surfaces. *Floor surfaces in elevator cars shall comply with 11B-407.4.2.*

11B-411.4.3 Platform to hoistway clearance. *Platform to hoistway clearance shall comply with Section 11B-407.4.3.*

11B-411.4.4 Leveling. *Elevator car leveling shall comply with Section 11B-407.4.4.*

11B-411.4.5 Illumination. *The level of illumination at the car controls shall comply with Section 11B-407.4.5.*

11B-411.4.6 Elevator car controls. *Where provided, elevator car controls shall comply with Sections 11B-411.4.6 and 11B-309.4.*

11B-411.4.6.1 Location. *Controls shall be located within one of the reach ranges specified in Section 11B-308.*

11B-411.4.6.2 Buttons. *Car control buttons shall comply with Sections 11B-407.4.6.2.1 and 11B-407.4.6.2.4. The car shall not have non-functional, exposed floor buttons.*

11B-411.4.6.3 Emergency controls. *Emergency controls shall comply with Section 11B-407.4.6.4.*

11B-411.4.7 Designations and indicators of car control buttons. *Designations and indicators of car control buttons shall comply with Section 11B-411.4.7.*

11B-411.4.7.1 Type. *Control button type shall comply with Section 11B-407.4.7.1.1.*

11B-411.4.7.2 Location. *Raised characters or symbols and Braille designations shall comply with Section 11B-407.4.7.1.2.*

11B-411.4.7.3 Symbols. *The control button for the emergency stop, alarm, door open, door close, and phone, shall be identified with raised symbols and Braille as shown in Table 11B-407.4.7.1.3.*

11B-411.4.7.4 Button spacing. *Button spacing shall comply with Section 11B-407.4.7.1.5.*

11B-411.4.8 Car position indicators. *Audible and visible car position indicators shall be provided in elevator cars.*

11B-411.4.8.1 Visible indicators. *Visible indicators shall comply with Section 11B-411.4.8.1.*

11B-411.4.8.1.1 Size. *Size of characters shall comply with Section 11B-407.4.8.1.1.*

11B-411.4.8.1.2 Location. *Location of indicators shall comply with Section 11B-407.4.8.1.2.*

11B-411.4.8.1.3 Destination indicator. *A display shall be provided in the car with visible indicators to show car destinations.*

11B-411.4.8.1.4 Floor arrival. *When a car stops at a floor served by the elevator, the corresponding indicator shall extinguish.*

11B-411.4.8.2 Audible indicators. *Audible indicators shall comply with Section 11B-411.4.8.2.*

11B-411.4.8.2.1 Signal type. *The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.*

11B-411.4.8.2.2 Signal level. *The verbal annunciator signal level shall comply with Section 11B-407.4.8.2.2.*

11B-411.4.8.2.3 Frequency. *The verbal annunciator frequency shall comply with Section 11B-407.4.8.2.3.*

11B-411.4.9 Emergency communication. *Emergency communication shall comply with Section 11B-407.4.9.*

11B-411.4.10 Support rail. *Support rails complying with Section 11B-407.4.10 shall be provided on at least one wall of the car.*

REASON: DSA-AC is proposing to add new technical requirements specific to destination-oriented elevators. A destination-oriented elevator system utilizes a method different from that of a standard elevator system to deliver a passenger to a desired floor. Utilization of car consoles which allow individuals to enter desired floor numbers and be assigned to designated elevators has accessibility implications for individuals with visual impairments. The proposed technical requirements for destination-oriented elevators will ensure access and provide clarity and consistency for manufacturers, design professionals, building officials, and other code users. Proposed Section 11B-411 follows the same format as Section 11B-407, contains references to comparative requirements located within Section 11B-407, and provides accessibility requirements for elements that are unique to destination-oriented elevators.

RELATED ITEM 11B.27.1

CHAPTER 2
Definition of CALL CONSOLE

CALL CONSOLE. *An elevator call user interface that may include a mechanical detectable keypad or touch screen, a display screen, audio output, an accessibility function button, and other components.*

REASON: DSA-AC is proposing to add a new definition for “call console” in coordination with the proposed new technical requirements for destination-oriented elevators to be added as Section 11B-411. The new definition indicates the components provided on a destination-oriented elevator call console which enable an individual to enter a desired floor number and be assigned to a designated elevator.

RELATED ITEM 11B.27.2

CHAPTER 2
Definition of DESTINATION-ORIENTED ELEVATOR

DESTINATION-ORIENTED ELEVATOR. *A destination-oriented elevator system provides lobby controls enabling each passenger to select a floor destination prior to entering the elevator car. The controls designate an assigned elevator to the passenger.*

REASON: DSA-AC is proposing to add a new definition for “destination-oriented elevator” in coordination with the proposed new technical requirements for destination-oriented elevators to be added as Section

11B-411. The new definition indicates how lobby controls in a destination-oriented elevator system enable each passenger to select a floor destination prior to entering the elevator car. The lobby controls assign a designated elevator to deliver a passenger to the selected destination floor. In a destination-oriented elevator system responding cars are programmed for maximum efficiency by reducing the number of stops a passenger experiences before arriving to a selected floor destination.

RELATED ITEM 11B.27.3

CHAPTER 2

Definition of ACCESSIBILITY FUNCTION BUTTON

ACCESSIBILITY FUNCTION BUTTON. *A button on an elevator call console that when pressed will activate a series of verbal prompts and announcements providing direction to an assigned elevator in a destination-oriented elevator system.*

REASON: DSA-AC is proposing to add a new definition for “accessibility function button” in coordination with the proposed new technical requirements for destination-oriented elevators to be added as Section 11B-411. The new definition indicates a specific button unique to a destination-oriented elevator system call console that when pressed starts the sequence of verbal prompts and announcements that directs a visually impaired user to the assigned elevator.

RELATED ITEM 11B.27.4

CHAPTER 11B

DIVISION 2: SCOPING REQUIREMENTS

11B-206 Accessible routes

11B-206.6 Elevators. Elevators provided for passengers shall comply with *Section 11B-407*. Where multiple elevators are provided, each elevator shall comply with *Section 11B-407*.

Exceptions:

1. In a building or facility permitted to use the exceptions to *Section 11B-206.2.3* or permitted by *Section 11B-206.7* to use a platform lift, elevators complying with *Section 11B-408* shall be permitted.
2. Elevators complying with *Section 11B-408* or *11B-409* shall be permitted in multi-story residential dwelling units. *Elevators provided as a means of access within a private residence shall be installed so that they are not accessible to the general public or to other occupants of the building.*
3. *Destination-oriented elevators complying with Section 11B-411 shall be permitted.*

11B-206.6.1 Existing elevators. Where elements of existing elevators are altered, the same element shall also be altered in all elevators that are programmed to respond to the same hall call control as the altered elevator and shall comply with the requirements of *Section 11B-407* for the altered element.

Exception: *Where a group of existing elevators are altered into a destination-oriented elevator system, or where elements of existing destination-oriented elevators are altered, the same elements shall also be altered in all elevators that are programmed to respond to the same call console or group of call consoles and shall comply with the requirements of Section 11B-411 for the altered elements.*

REASON: DSA-AC is proposing to amend the Section 11B-206.6 scoping requirements for elevators in coordination with the proposed new technical requirements for destination-oriented elevators to be added as Section 11B-411. Exceptions are being added to Sections 11B-206.6 and 11B-206.6.1 to direct code users to the new technical requirements.

RELATED ITEM 11B.27.5

CHAPTER 11B
DIVISION 4: ACCESSIBLE ROUTES

11B-407 Elevators

11B-407.1 General. 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-407.1.1 Combined passenger and freight elevators. *When the only elevators provided for use by the public and employees are combination passenger and freight elevators, they shall comply with Section 11B-407 and with ASME A17.1.*

11B-407.2 Elevator landing requirements. Elevator landings shall comply with *Section 11B-407.2*.

11B-407.2.1 Call controls. Where elevator call buttons or keypads are provided, they shall comply with *Sections 11B-407.2.1 and 11B-309.4*.

Exception: Reserved.

11B-407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in *Section 11B-308*, measured to the centerline of the highest operable part.

Exception: Reserved.

11B-407.2.1.2 Size and shape. Call buttons shall *have square shoulders*, be $\frac{3}{4}$ inch (19.1 mm) minimum in the smallest dimension *and shall be raised $\frac{1}{8}$ inch (3.2 mm) plus or minus 1/32 inch (0.8 mm) above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.*

Exception: Reserved.

11B-407.2.1.3 Clear floor or ground space. A clear floor or ground space complying with *Section 11B-305* shall be provided at call controls.

11B-407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.

Exception: Reserved. ~~Destination-oriented elevators shall not be required to comply with Section 11B-407.2.1.4.~~

11B-407.2.1.5 Signals. 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.*

Exceptions:

1. ~~**Reserved.** Destination-oriented elevators shall not be required to comply with Section 11B-407.2.1.5 provided that visible and audible signals complying with Section 11B-407.2.2 indicating which elevator car to enter are provided.~~
2. **Reserved.**

11B-407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with Section 11B-407.4.7.2.

11B-407.2.2 Hall signals. Hall signals, including in-car signals, shall comply with Section 11B-407.2.2.

11B-407.2.2.1 Visible and audible signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

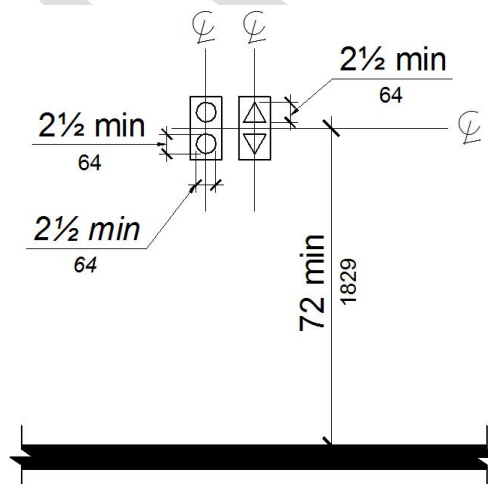
Exceptions:

1. ~~**Reserved.** Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with Section 11B-407.2.2 is provided indicating the elevator car designation information.~~
2. **Reserved.**

11B-407.2.2.2 Visible signals. Visible signal fixtures shall be centered at 72 inches (1829 mm) minimum above the finish floor or ground. The visible signal elements shall be a minimum 2½ inches (64 mm) high by 2½ inches (64 mm) wide. Signals shall be visible from the floor area adjacent to the hall call button.

Exceptions:

1. ~~**Reserved.** Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.~~
2. **Reserved.**



**Figure 11B-407.2.2.2
Visible Hall Signals**

11B-407.2.2.3 Audible signals. Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciators shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call button.

Exceptions:

1. ~~**Reserved.** Destination-oriented elevators shall not be required to comply with Section 11B-407.2.2.3 provided that the audible tone and verbal announcement is the same as those given at the call button or call button keypad.~~
2. **Reserved.**

11B-407.2.2.4 Reserved. Differentiation. Each destination-oriented elevator in a bank of elevators shall have audible and visible means for differentiation.

11B-407.2.3 Hoistway signs. Signs at elevator hoistways shall comply with Section 11B-407.2.3.

11B-407.2.3.1 Floor designation. Floor designations complying with Sections 11B-703.2 and 11B-703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both *raised* characters and Braille. *Raised* characters shall be 2 inches (51 mm) high. A *raised* star, placed to the left of the floor designation, shall be provided on both jambs at the main entry level. The outside diameter of the star shall be 2 inches (51 mm) and all points shall be of equal length. Raised characters, including the star, shall be white on a black background. 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". Applied plates are acceptable if they are permanently fixed to the jamb.

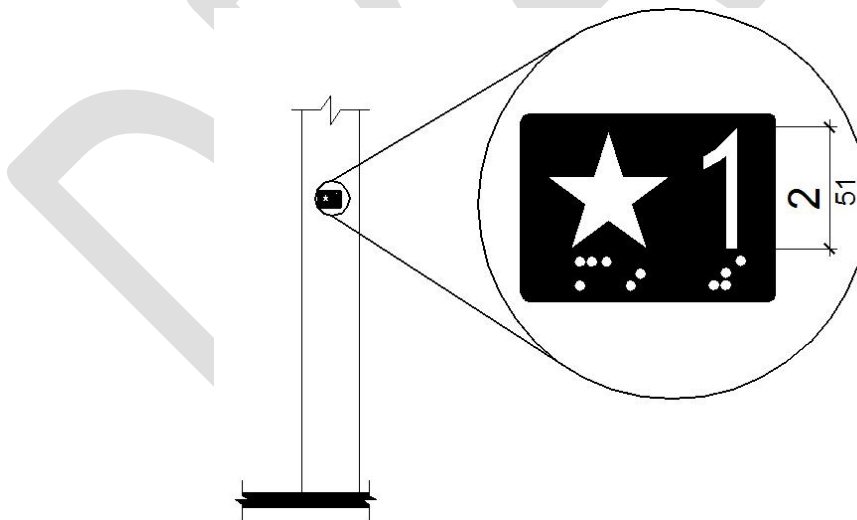


Figure 11B-407.2.3.1
Floor Designations on Jambs of Elevator Hoistway Entrances

11B-407.2.3.2 Reserved. Car designations. Destination-oriented elevators shall provide tactile car identification complying with Sections 11B-703.2 and 11B-703.4.1 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both *raised* characters and Braille. *Raised* characters shall be 2 inches (51 mm) high. *Raised* characters shall be white on a black background. Braille complying with Section 11B-703.3 shall

~~be placed below the corresponding raised characters. Applied plates are acceptable if they are permanently fixed to the jamb.~~

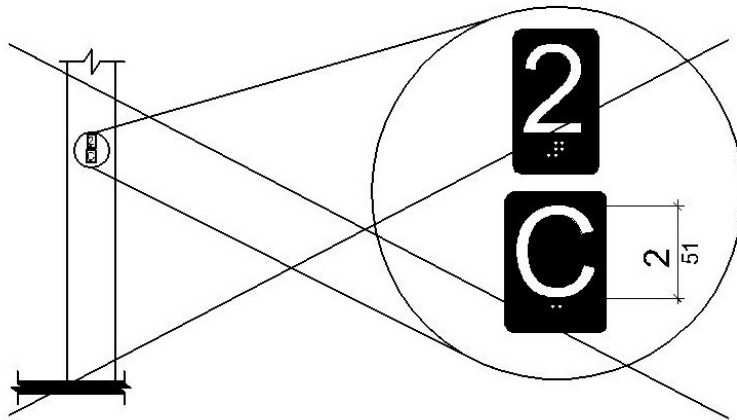


Figure 11B-407.2.3.2

Car Designations on Jamb of Destination-Oriented Elevator Hoistway Entrances

11B-407.3 Elevator door requirements. Hoistway and car doors shall comply with *Section 11B-407.3*.

11B-407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

11B-407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.

Exception: Existing manually operated hoistway swing doors shall be permitted provided that they comply with *Sections 11B-404.2.3* and *11B-404.2.9*. Car door closing shall not be initiated until the hoistway door is closed.

11B-407.3.3 Reopening device. Elevator doors shall be provided with a reopening device complying with *Section 11B-407.3.3* that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

Exception: Existing elevators with manually operated doors shall not be required to comply with *Section 11B-407.3.3*.

11B-407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (127 mm) nominal and 29 inches (737 mm) nominal above the finish floor.

11B-407.3.3.2 Contact. The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.

11B-407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

11B-407.3.4 Door and signal timing. The minimum acceptable time from notification that a car is answering a call ~~or notification of the car assigned at the means for the entry of destination information~~ until the doors of that car start to close shall be calculated from the following equation:

$T = D/(1.5 \text{ ft/s})$ or $T = D/(455 \text{ mm/s}) = 5 \text{ seconds minimum}$ where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60

inches (1524 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

Exceptions:

1. For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1524 mm) directly in front of the farthest hall call button and the audible signal is sounded.
2. ~~**Reserved.** Destination-oriented elevators shall not be required to comply with Section 11B-407.3.4.~~

11B-407.3.5 Door delay. Elevator doors shall remain fully open in response to a car call for 5 seconds minimum.

11B-407.3.6 Width. The width of elevator doors shall comply with Table 11B-407.4.1.

Exception: In existing elevators, a power-operated car door complying with Section 11B-404.2.3 shall be permitted.

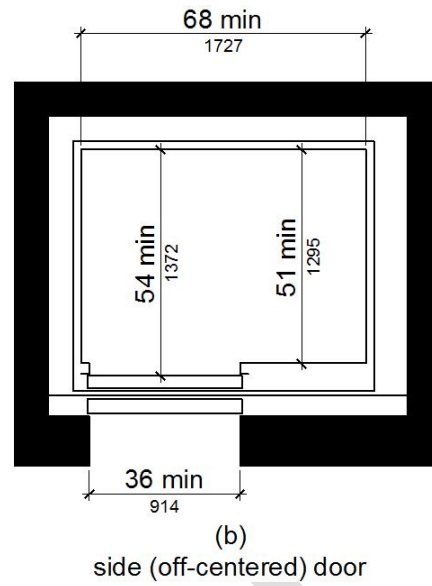
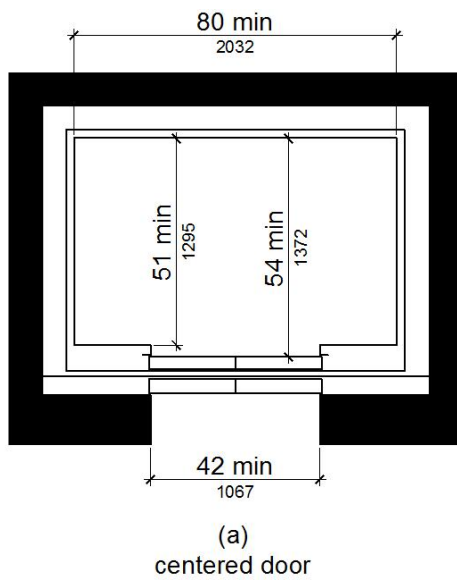
11B-407.4 Elevator car requirements. Elevator cars shall comply with Section 11B-407.4.

11B-407.4.1 Car dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 11B-407.4.1.

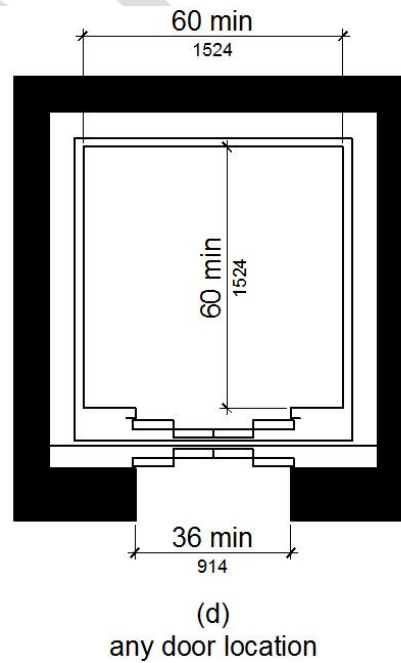
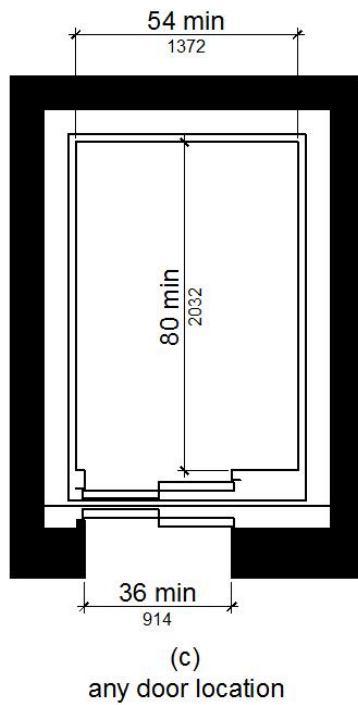
Exception: In existing buildings, where existing shaft configuration or technical infeasibility prohibits strict compliance with Section 11B-407.4.1, existing elevator car configurations that provide a clear floor area of 18 square feet (1.67 m²) minimum and also provide an inside clear depth 54 inches (1372 mm) minimum and a clear width 48 inches (1219 mm) minimum shall be permitted.

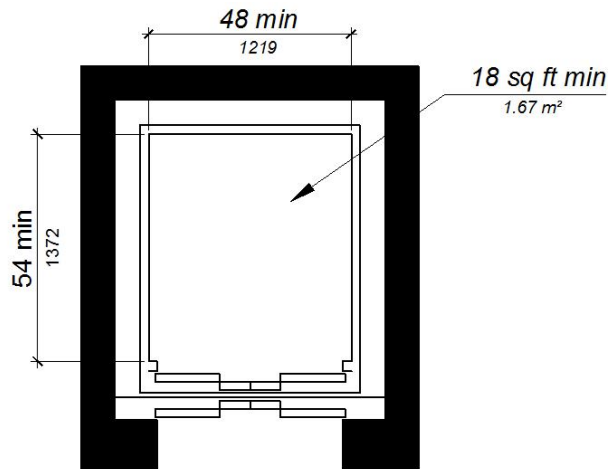
Table 11B-407.4.1 Elevator Car Dimensions

Door Location	Minimum Dimensions			
	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches (1067 mm)	80 inches (2032 mm)	51 inches (1295 mm)	54 inches (1372 mm)
Side (off-centered)	36 inches (914 mm) ¹	68 inches (1727 mm)	51 inches (1295 mm)	54 inches (1372 mm)
Any	36 inches (914 mm) ¹	54 inches (1372 mm)	80 inches (2032 mm)	80 inches (2032 mm)
Any	36 inches (914 mm) ²	60 inches (1524 mm) ²	60 inches (1524 mm) ²	60 inches (1524 mm) ²
<ol style="list-style-type: none"> 1. A tolerance of minus 5/8 inch (15.9 mm) is permitted. 2. Other car configurations that provide a turning space complying with Section 11B-304 with the door closed shall be permitted. 				



**Figure 11B-407.4.1
Elevator Car Dimensions**





(e)
Exception
existing elevator car configuration

Figure 11B-407.4.1
Elevator Car Dimensions

11B-407.4.2 Floor surfaces. Floor surfaces in elevator cars shall comply with *Sections 11B-302 and 11B-303*.

11B-407.4.3 Platform to hoistway clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1¼ inch (32 mm) maximum.

11B-407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of ½ inch (12.7 mm) under rated loading to zero loading conditions.

11B-407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

11B-407.4.6 Elevator car controls. Where provided, elevator car controls shall comply with *Sections 11B-407.4.6 and 11B-309.4*.

Exception: In existing elevators, where a new car operating panel complying with *Section 11B-407.4.6* is provided, existing car operating panels *may remain operational and* shall not be required to comply with *Section 11B-407.4.6*.

11B-407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in *Section 11B-308*.

Exceptions:

1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1372 mm) maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1372 mm) maximum above the finish floor where a parallel approach is provided.

11B-407.4.6.2 Buttons. Car control buttons with floor designations shall comply with *Section 11B-407.4.6.2*.

Exception: Reserved.

11B-407.4.6.2.1 Size and shape. Buttons shall *have square shoulders*, be 3/4 inch (19.1 mm) minimum in their smallest dimension *and be raised 1/8 inch (3.2 mm) plus or minus 1/32 inch (0.8 mm) above the surrounding surface*.

11B-407.4.6.2.2 Arrangement. 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-407.4.6.2.3 Illumination. *Car control buttons shall be illuminated.*

11B-407.4.6.2.4 Operation. *Car control buttons shall be activated by a mechanical motion that is detectable.*

11B-407.4.6.3 Keypads. Car control keypads shall be in a standard telephone keypad arrangement and shall comply with *Section 11B-407.4.7.2*.

11B-407.4.6.4 Emergency controls. Emergency controls shall comply with *Section 11B-407.4.6.4*.

11B-407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (889 mm) minimum above the finish floor.

11B-407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

11B-407.4.7 Designations and indicators of car controls. Designations and indicators of car controls shall comply with *Section 11B-407.4.7*.

Exception: In existing elevators, where a new car operating panel complying with *Section 11B-407.4.7* is provided, existing car operating panels *may remain operational and* shall not be required to comply with *Section 11B-407.4.7*.

11B-407.4.7.1 Buttons. Car control buttons shall comply with *Section 11B-407.4.7.1*.












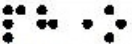
11B-407.4.7.1.1 Type. Control buttons shall be identified by *raised characters or symbols, white on a black background, complying with Section 11B-703.2 and Braille complying with Section 11B-703.3*.

11B-407.4.7.1.2 Location. *Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.*

Exception: Reserved.

11B-407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with *raised symbols and Braille* as shown in *Table 11B-407.4.7.1.3*.

Table 11B-407.4.7.1.3 Elevator Control Button Identification

Control Button	Raised Symbol	Braille Message
Emergency Stop		 "ST"OP Three Cells
Alarm		 AL"AR"M Four Cells
Door Open		 OP"EN" Three Cells
Door Close		 CLOSE Five Cells
Main Entry Floor		 MA"IN" Three Cells
Phone		 PH"ONE" Four Cells

11B-407.4.7.1.4 Visible indicators. Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.

11B-407.4.7.1.5 Button spacing. A minimum clear space of 3/8 inch (9.5 mm) or other suitable means of separation shall be provided between rows of control buttons.

11B-407.4.7.2 Keypads. Keypads shall be identified by characters complying with Section 11B-703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 11B-703.3.1.

11B-407.4.8 Car position indicators. Audible and visible car position indicators shall be provided in elevator cars.

11B-407.4.8.1 Visible indicators. Visible indicators shall comply with Section 11B-407.4.8.1.

11B-407.4.8.1.1 Size. Characters shall be ½ inch (12.7 mm) high minimum.

11B-407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

11B-407.4.8.1.3 Floor arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.

Exception: Reserved. ~~Destination-oriented elevators shall not be required to comply with Section 11B-407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.~~

11B-407.4.8.1.4 ~~Reserved. Destination indicator.~~ In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

11B-407.4.8.2 Audible indicators. Audible indicators shall comply with Section 11B-407.4.8.2.

11B-407.4.8.2.1 Signal type. The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.

Exception: For elevators ~~other than destination-oriented elevators~~ that have a rated speed of 200 feet per minute (1 m/s) or less, a non-verbal audible signal with a frequency of 1500 Hz maximum which sounds as the car passes or is about to stop at a floor served by the elevator shall be permitted.

11B-407.4.8.2.2 Signal level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

11B-407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

11B-407.4.9 Emergency communication. Emergency two-way communication systems shall comply with Section 11B-308. Raised symbols or characters, white on a black background, and Braille shall be provided adjacent to the device and shall comply with Sections 11B-703.2 and 11B-703.3. Emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME A17.1.

11B-407.4.10 Support rail. Support rails shall be provided on at least one wall of the car.

11B-407.4.10.1 Location. Clearance between support rails and adjacent surfaces shall be 1½ inches (38 mm) minimum. Top of support rails shall be 31 inches (787 mm) minimum to 33 inches (838 mm) maximum above the floor of the car. The ends of the support rail shall be 6 inches (152 mm) maximum from adjacent walls.

11B-407.4.10.2 Surfaces. Support rails shall be smooth and any surface adjacent to them shall be free of sharp or abrasive elements.

11B-407.4.10.3 Structural strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the support rail, fastener, mounting device, or supporting structure.

REASON: DSA-AC is proposing to amend the Section 11B-407 technical requirements for standard elevators in coordination with the proposed new technical requirements for destination-oriented elevators to be added as Section 11B-411. Subsections, exceptions, and figures specific to destination-oriented elevators within Section 11B-407 are being repealed or relocated to Section 11B-411, as applicable.

ITEM 11B.28

DIVISION 5: GENERAL SITE AND BUILDING ELEMENTS

11B-505 Handrails

11B-505.10 Handrail extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 11B-505.10.

Exceptions:

1. ...

2. ...
3. In alterations, *where the extension of the handrail in the direction of stair flight or ramp run would ~~create a hazard~~ protrude more than 4 inches (102 mm) into a circulation path, the extension of the handrail may be turned 90 degrees from the direction of stair flight or ramp run.*

REASON: DSA-AC is proposing an amendment to carry forward and incorporate an accessibility provision of the 2010 California Building Code which was inadvertently omitted in the development of the 2013 California Building Code. Section 1133B.4.2.2, Exception 2, of the 2010 California Building Code provides relief from the requirement for full extension of stair handrails in alterations where such extensions would be hazardous or impossible due to plan configuration. In addition, the language “create a hazard” is being replaced with the language “protrude more than 4 inches into a circulation path” to more clearly define the existing condition under which the exception may be utilized. These amendments will provide clarity and consistency for code users.

ITEM 11B.29

DIVISION 6: PLUMBING ELEMENTS AND FACILITIES

11B-603 Toilet and bathing rooms

11B-603.4 Coat hooks, shelves and medicine cabinets. Coat hooks shall be located within one of the reach ranges specified in *Section 11B-308*. Shelves shall be located 40 inches (1016 mm) minimum and 48 inches (1219 mm) maximum above the finish floor. *Medicine cabinets shall be located with a usable shelf no higher than 44 inches (1118 mm) maximum above the finish floor provide at least one shelf which complies with Section 11B-308.*

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. This section requires medicine cabinets to be located with one shelf at 44 inches maximum above the finish floor; however, depending on the depth of an obstruction, a shelf located at 44 inches may not comply with the reach range requirements of Section 11B-308. This section is being amended to require medicine cabinets with one shelf located within the reach range requirements of Section 11B-308.

ITEM 11B.30

DIVISION 6: PLUMBING ELEMENTS AND FACILITIES

11B-604 Water closets and toilet compartments

11B-604.3 Clearance. ...

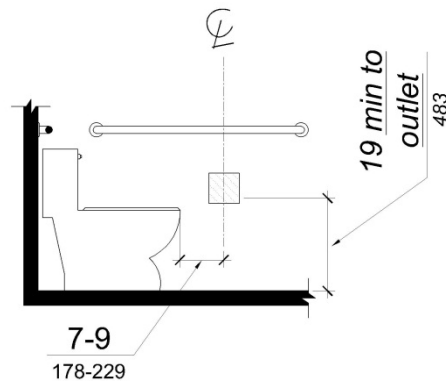
11B-604.3.1 Size. Clearance around a water closet shall be 60 inches (1524 mm) minimum measured perpendicular from the side wall and 56 inches (1422 mm) minimum measured perpendicular from the rear wall. *A minimum 60 inches (1524 mm) wide and 48 inches (1219 mm) deep maneuvering space shall be provided in front of the water closet.*

Exception: *In residential dwelling units, clearance around a water closet shall be 60 inches (1524 mm) minimum measured perpendicular from the side wall and shall extend beyond the front edge of the water closet 36 inches (914 mm) minimum.*

REASON: DSA-AC is proposing to amend this section to clarify the requirements for clearance around a water closet in residential dwelling units. The 2010 CBC, Section 1134A.7, Item 1 requires the floor space at a water closet to extend past the front edge of the water closet at least 36 inches. An inadvertent error was introduced into 2013 CBC, Section 11B-604.3.1 requiring 48 inches deep maneuvering space be provided in front of the water closet. The error is being corrected now to provide clarity and consistency for code users.

ITEM 11B.31**DIVISION 6: PLUMBING ELEMENTS AND FACILITIES****11B-604 Water closets and toilet compartments**

11B-604.7 Dispensers. Toilet paper dispensers shall comply with Section 11B-309.4 and shall be 7 inches (178 mm) minimum and 9 inches (229 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be *below the grab bar*, 19 inches (483 mm) *minimum* above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.



**Figure 11B-604.7
Dispenser Outlet Location**

REASON: DSA-AC is proposing to amend this figure to provide clarity and consistency for code users. In the previous code cycle the model code language was amended to require dispenser outlets to be located 19 inches minimum above the finish floor. An inadvertent error was made in the revision of this figure showing the outlet location at 19 inches absolute above the finish floor. The figure is being amended to clarify the requirements of Section 11B-604.7.

ITEM 11B.32**DIVISION 6: PLUMBING ELEMENTS AND FACILITIES****11B-604 Water closets and toilet compartments****11B-604.8 Toilet compartments. ...****11B-604.8.1 Wheelchair accessible compartments. ...**

11B-604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1524 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1422 mm) deep minimum for wall hung water closets and 59 inches (1499 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments shall comply with the maneuvering space requirements of Section 11B-604.8.1.1.1, 11B-604.8.1.1.2, or 11B-604.8.1.1.3, as applicable. Wheelchair accessible compartments for children's use shall be 60 inches (1524 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1499 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

11B-604.8.1.1.1 Maneuvering space with in-swinging door. In a wheelchair accessible compartment with an in-swinging door, a minimum 60 inches (1524 mm) wide by 36 inches (914

mm) 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).

11B-604.8.1.1.2 Maneuvering space with side-opening door. In a wheelchair accessible compartment with a side-opening door, either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 60 inches (1524 mm) deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.2.

11B-604.8.1.1.3 Maneuvering space with end-opening door. In a wheelchair accessible compartment with an end-opening door (facing the water closet), either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 48 inches (1219 mm) deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.3.

REASON: DSA-AC is proposing to amend this section to provide clarity for code users. DSA-AC is proposing to add language directing code users to the additional maneuvering space requirements located in Sections 11B-604.8.1.1.1, 11B-604.8.1.1.2, and 11B-604.8.1.1.3, eliminating possible confusion or oversight.

ITEM 11B.33

DIVISION 6: PLUMBING ELEMENTS AND FACILITIES

11B-604 Water closets and toilet compartments

11B-604.8 Toilet compartments. ...

11B-604.8.1 Wheelchair accessible compartments. ...

11B-604.8.1.1 Size. ...

11B-604.8.1.1.2 Maneuvering space with side-opening door. In a wheelchair accessible compartment with a ~~side-opening door~~ door located in the side wall or partition, either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 60 inches (1524 mm) deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.2.

11B-604.8.1.1.3 Maneuvering space with end-opening door. In a wheelchair accessible compartment with ~~an end-opening door~~ a door located in the front partition (facing the water closet), either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 48 inches (1219 mm) deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.3.

REASON: DSA-AC is proposing to amend these sections to provide clarity and consistency for code users. Sections 11B-604.8.1.1.2 and 11B-604.8.1.1.3 are 2010 California Building Code provisions carried forward and incorporated into the 2013 California Building Code. DSA-AC is proposing to amend the terminology used in these sections to be consistent with the terminology used in model code Section 11B-604.8.1.2. The term “side-opening door” is being replaced with “door located in the side wall or partition”; the term “end-opening door” is being replaced with “door located in the front partition”.

ITEM 11B.34

DIVISION 6: PLUMBING ELEMENTS AND FACILITIES

11B-606 Lavatories and sinks

11B-606.7 Sink depth. ~~Sinks shall be 6½ inches (165 mm) deep maximum.~~ Where a forward approach is required at a sink, knee and toe clearance shall be provided in compliance with Section 11B-306.

REASON: DSA-AC is proposing to repeal the requirement for a maximum sink depth of 6½ inches. Section 11B-606 requires lavatories and sinks to comply with Section 11B-606.2, which in turn directs the

code user to Section 11B-306. The controlling dimensions for knee and toe clearance are located in Section 11B-306 Knee and Toe Clearance, Section 11B-306.3.1 General, Exception, which states, “*At lavatories required to be accessible by Section 11B-213.3.4, space between 9 inches (229 mm) and 29 inches (737 mm) above the finish floor or ground, shall be considered knee clearance*”. A sink compartment deeper than 6½ inches that does not encroach into the required knee clearance does not impact accessibility and provides a greater range of options for lavatory and sink types.

ITEM 11B.35**DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES****11B-703 Signs****11B-703.3 Braille. ...**

11B-703.3.2 Position. Braille shall be positioned below the corresponding text *in a horizontal format, flush left or centered*. If text is multi-lined, Braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum and ½ inch (12.7 mm) maximum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

Exception: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located ~~either~~ directly below the corresponding raised characters or symbols.

REASON: DSA-AC is proposing to correct an inadvertent publishing error in the exception to Section 11B-703.3.2. The Express Terms document approved by California Building Standards Commission shows the model code word “either” in strike-out, indicating that it was to be deleted prior to publication. DSA-AC is proposing to delete the word “either” to eliminate any possible confusion for code users.

ITEM 11B.36**DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES****11B-703 Signs****11B-703.4 Installation height and location. ...**

11B-703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside 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 hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (457 mm) minimum by 18 inches (457 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. *Where permanent identification signage is provided for rooms and spaces they shall be located on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room or space.*

Exception: ~~Reserved.~~ Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

REASON: DSA-AC is proposing an amendment to include the model code language repealed in the 2013 California Building Code allowing signs to be installed on the push side of doors. This type of installation typically occurs in transient lodging facilities and apartment buildings. The door may be set back in an alcove and installing the sign on the push side of the door provides for increased visibility. This method of installation also provides for reliability in the location of room signage in transient lodging facilities where persons with vision impairments are used to looking for signs on the door rather than a sidewall. In

addition, this provision allows for compliance in older facilities where the only location for a sign may be on an in-swinging door. Allowing signs on the push side of doors with closers and without hold-open devices does not reduce access and provides an option in these specific locations for ease of use without the risk of injury.

ITEM 11B.37**DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES****11B-703 Signs****11B-703.7 Symbols of accessibility. ...****11B-703.7.2 Symbols. ...**

11B-703.7.2.1 International Symbol of Accessibility. The International Symbol of Accessibility shall comply with Figure 11B-703.7.2.1. ~~The symbol shall consist of a white figure on a blue background. The blue shall be Color No. 15090 in Federal Standard 595B.~~

Exception: ~~The appropriate enforcement agency may approve other colors to complement décor or unique design. The symbol contrast shall be light on dark or dark on light.~~

REASON: DSA-AC is proposing to repeal the provision requiring the International Symbol of Accessibility to be white on a blue background and the corresponding exception which permits the appropriate enforcement agency to approve other colors to complement décor or unique design. This puts an undue burden on the signage industry and the enforcement agency for approval of colors other than white on a blue background. Repealing the 2013 California Building Code language provides consistency with the model code and clarity for code users.

ITEM 11B.38**DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES****11B-703 Signs****11B-703.8 Variable message signs.**

11B-703.8.1 General. High resolution variable message sign (VMS) characters shall comply with Sections 11B-703.5 and 11B-703.8.12 through 11B-703.8.14. Low resolution variable message sign (VMS) characters shall comply with 11B-703.8.

Exception: Theatrical performance related VMS signs, including but not limited to, text and translation delivery systems, surtitles and subtitles, shall not be required to comply with Section 703.8.1.

11B-703.8.2 Case. Low resolution VMS characters shall be uppercase.

11B-703.8.3 Style. Low resolution VMS characters shall be conventional in form, shall be san serif, and shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B-703.8.4 Character height. The uppercase letter "I" shall be used to determine the allowable height of all low resolution VMS characters of a font. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. The uppercase letter "I" of the font shall have a minimum height complying with Table 11B-703.8.4

Exception: In assembly seating where the maximum viewing distance is 100 feet (30.5 m) or greater, the height of the uppercase "I" of low resolution VMS fonts shall be permitted to be 1 inch

(25 mm) for every 30 feet (9144 mm) of viewing distance, provided the character height is 8 inches (203 mm) minimum. Viewing distance shall be measured as the horizontal distance between the character and where someone is expected to view the sign.

Table 11B-703.8.4 Low Resolution VMS Character Height

<u>Height Above Floor to Baseline of Character</u>	<u>Horizontal Viewing Distance</u>	<u>Minimum Character Height</u>
<u>40 inches (1016 mm) to less than or equal to 70 inches (1778 mm)</u>	<u>Less than 10 feet (3048 mm)</u>	<u>2 inches (51 mm)</u>
	<u>10 feet (3048 mm) and greater</u>	<u>2 inches (51 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 10 feet (3048 mm)</u>
<u>Greater than 70 inches (1778 mm) to less than or equal to 120 inches (3048 mm)</u>	<u>Less than 15 feet (4572 mm)</u>	<u>3 inches (76 mm)</u>
	<u>15 feet (4572 mm) and greater</u>	<u>3 inches (76 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 15 feet (4572 mm)</u>
<u>Greater than 120 inches (3048 mm)</u>	<u>Less than 20 feet (6096 mm)</u>	<u>4 inches (102 mm)</u>
	<u>20 feet (6096 mm) and greater</u>	<u>4 inches (102 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 20 feet (6096 mm)</u>

11B-703.8.5 Character width. The uppercase letter “O” shall be used to determine the allowable width of all low resolution VMS characters of a font. Low resolution VMS characters shall comply with the pixel count for character width in Table 11B-703.8.5.

Table 11B-703.8.5 Pixel Count for Low Resolution VMS Signage

<u>Character Height</u>	<u>Character Width Range</u>	<u>Stroke Width Range</u>	<u>Character Spacing Range</u>
<u>7</u>	<u>5-6</u>	<u>1</u>	<u>2</u>
<u>8</u>	<u>6-7</u>	<u>1-2</u>	<u>2-3</u>
<u>9</u>	<u>6-8</u>	<u>1-2</u>	<u>2-3</u>
<u>10</u>	<u>7-9</u>	<u>2</u>	<u>2-4</u>
<u>11</u>	<u>8-10</u>	<u>2</u>	<u>2-4</u>
<u>12</u>	<u>8-11</u>	<u>2</u>	<u>3-4</u>
<u>13</u>	<u>9-12</u>	<u>2-3</u>	<u>3-5</u>
<u>14</u>	<u>10-13</u>	<u>2-3</u>	<u>3-5</u>
<u>15</u>	<u>11-14</u>	<u>2-3</u>	<u>3-5</u>

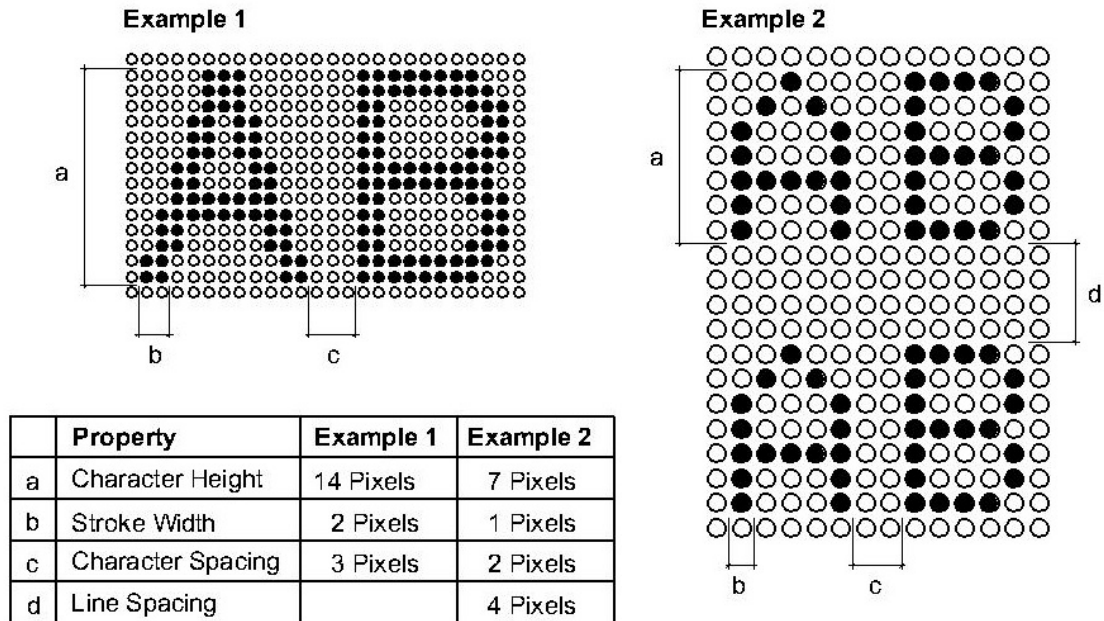


Figure 11B-703.8.5
Low Resolution VMS Signage Characters

11B-703.8.6 Stroke width. *The uppercase letter “I” shall be used to determine the allowable stroke width of all low resolution VMS characters of a font. Low resolution VMS characters shall comply with the pixel count for stroke width in Table 11B-703.8.5.*

11B-703.8.7 Character spacing. *Spacing shall be measured between the two closest points of adjacent low resolution VMS characters within a message, excluding word spaces. Low resolution VMS character spacing shall comply with the pixel count for character spacing in Table 11B-703.8.5.*

11B-703.8.8 Line spacing. *Low resolution VMS characters shall comply with Section 11B-703.5.9.*

11B-703.8.9 Height above floor. *Low resolution VMS characters shall be 40 inches (1016 mm) minimum above the floor of the viewing position, measured to the baseline of the character. Heights of low resolution variable message sign characters shall comply with Table 11B-703.8.4, based on the size of the characters on the sign.*

11B-703.8.10 Finish. *The background of low resolution VMS characters shall have a non-glare finish.*

11B-703.8.11 Contrast. *Low resolution VMS characters shall be light characters on a dark background.*

11B-703.8.12 Protective covering. *Where a protective layer is placed over VMS characters through which the VMS characters must be viewed, the protective covering shall have a non-glare finish.*

11B-703.8.13 Brightness. *The brightness of variable message signs in exterior locations shall automatically adjust in response to change in ambient light levels.*

11B-703.8.14 Rate of change. *Where a VMS message can be displayed in its entirety on a single screen, it shall be displayed on a single screen and shall remain motionless on the screen for a minimum 3 seconds or one second minimum for every 7 characters of the message including spaces whichever is longer.*

REASON: DSA-AC is proposing to add scoping and technical provisions for variable message signs (VMS) at transportation facilities and emergency shelters to the 2013 CBC, Chapter 11B based on the 2012 IBC, Section 1110.4 and ICC A117.1-2009. Additionally, new definitions of “variable message signs (VMS)” and “variable message sign (VMS) characters” are being added to 2013 CBC, Chapter 2.

RELATED ITEM 11B.38.1

CHAPTER 2

Definition of VARIABLE MESSAGE SIGNS (VMS)

Definition of VARIABLE MESSAGE SIGN (VMS) CHARACTERS

VARIABLE MESSAGE SIGNS (VMS). *Electronic signs that have a message with the capacity to change by means of scrolling, streaming, or paging across a background.*

VARIABLE MESSAGE SIGN (VMS) CHARACTERS. *Characters of an electronic sign are composed of pixels in an array. High resolution VMS characters have vertical pixel counts of 16 rows or greater. Low resolution VMS characters have vertical pixel counts of 7 to 15 rows.*

REASON: DSA-AC is proposing to add new definitions for “variable message signs (VMS)” and variable message sign (VMS) characters” in coordination with the proposed adoption of new scoping and technical provisions for variable message signs in Sections 11B-216.14 and 11B-703.8.

RELATED ITEM 11B.38.2

CHAPTER 11B

DIVISION 2: SCOPING REQUIREMENTS

11B-216 Signs

11B-216.14 Variable message signs. *Where provided in transportation facilities, variable message signs conveying transportation-related information shall comply with Section 11B-11B-703.8. Where provided in buildings that are designed as emergency shelters, variable message signs conveying emergency-related information shall comply with Section 11B-11B-703.8.*

Exception: *Where equivalent information is provided in an audible manner, variable message signs are not required to comply with this section.*

REASON: DSA-AC is proposing to add scoping and technical provisions for variable message signs (VMS) at transportation facilities and emergency shelters to the 2013 CBC, Chapter 11B based on the 2012 IBC, Section 1110.4 and ICC A117.1-2009.

ITEM 11B.39

DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES

11B-705.1 Detectable warnings

11B-705.1.1 General. ...

11B-705.1.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light. *The material used to provide contrast shall be an integral part of the surface. Contrast shall be determined by:*

*Contrast = [(B1-B2)/B1] x 100 percent where
B1 = light reflectance value (LRV) of the lighter area and
B2 = light reflectance value (LRV) of the darker area.*

Exception: *Where the detectable warning surface does not ~~adequately contrast with~~ provide a 70 percent minimum contrast with adjacent surfaces, a 1 inch (25 mm) wide black strip shall separate yellow detectable warning from adjacent surfaces.*

REASON: DSA-AC is proposing an amendment to carry forward and incorporate an accessibility provision of the 2010 California Building Code which was inadvertently omitted in the development of the 2013 California Building Code. Section 1121B.3.1, Item 8(a) of the 2010 California Building Code requires a 70 percent contrast between yellow detectable warning and adjacent walking surfaces, and further requires a black contrasting strip when the minimum contrast is not achieved. DSA-AC is proposing to add the 2010 California Building Code requirement for 70 percent contrast to the exception to 11B-705.1.1.3 where the language permitting a black strip between yellow detectable warning and adjacent walking surfaces is located. The 2010 California Building Code language is being revised for consistency with model code format and terminology.

ITEM 11B.40

DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES

11B-708 Two-way communication systems

11B-708.1 General. Two-way communication systems shall comply with *Section 11B-708 and ANSI/DASMA 303-2006.*

REASON: DSA-AC is proposing an amendment to this section to add the reference to ANSI/DASMA 303-2006 Performance Criteria for Accessible Communication Entry Systems. In addition to the current provisions in Section 11B-708, this standard provides performance criteria for location, placement, visual user directions, volume level, call status, controls and input devices. The benefits are consistent ease of use and uniformity in evaluating performance criteria for two-way communication systems. The increase in construction cost is minimal if any. A related change is proposed for Chapter 35 Referenced Standards.

ITEM 11B.41

DIVISION 8: Special Rooms, Spaces and Elements

11B-804 Kitchens, and kitchenettes, and wet bars.

11B-804.1 General. Kitchens, ~~and kitchenettes,~~ and wet bars shall comply with *Section 11B-804.*

11B-804.2 Clearance. ...

11B-804.3 Kitchen work surface. ...

11B-804.4 Sinks. ...

11B-804.5 Storage. ...

11B-804.6 Appliances. ...

REASON: DSA-AC is proposing to amend Section 11B-804 to correct inadvertent typographical errors introduced in the previous code cycle. Section 11B-212.2, containing the scoping requirements for kitchens, kitchenettes, and wet bars, refers code users to the technical requirements of Section 11B-804. In the previous code cycle, the title of Section 11B-804 and the general application language of Section 11B-804.1 were not amended to include "wet bars"; the title and general application language are being amended at this time to eliminate any possible confusion for code users.

ITEM 11B.42**DIVISION 8: Special Rooms, Spaces and Elements****11B-810 Transportation facilities****11B-810.2 Bus boarding and alighting areas. ...**

11B-810.2.3 Connection. Bus stop boarding and alighting areas shall be connected to streets, sidewalks, or pedestrian paths by an accessible route complying with *Section 11B-402*. ~~Newly constructed bus stop pads shall provide a square curb transition between the pad and roadway elevations~~ boarding and alighting areas shall provide a detectable transition between the boarding/alighting area and the roadway; the detectable transition shall consist of a curb with the face sloped at 35 degrees maximum from vertical or detectable warnings complying with *Section 11B-705.2* Sections 11B-705.1.1 and 11B-705.1.2.4.

REASON: DSA-AC is proposing to amend this section to clarify the requirements for a detectable transition between bus stop boarding and alighting areas and adjacent roadways. The detectable transition must consist of either a curb or detectable warning. Consistent with CalTrans Standard Details for curb ramps, language referring to “square curb” is being replaced with language referring to a “curb with the face sloped at 35 degrees maximum from vertical”. Additionally, in the last rulemaking cycle, Section 11B-810.2.3 was amended to carry forward a 2010 California Building Code provision for “bus stop pads”. DSA-AC is proposing to further amend this section to provide consistent use of the term “bus stop boarding and alighting areas” throughout, eliminating any possible confusion. See the proposed related changes to Sections 11B-247.1.2.4 and 11B-705.1.2.4.

RELATED ITEM 11B.42.1**CHAPTER 11B****DIVISION 2: SCOPING REQUIREMENTS****11B-247.1 Detectable warnings.****11B-247.1.2 Where required. ...**

11B-247.1.2.4 Bus stops. ~~Bus stop pads shall provide a square curb surface or detectable warnings complying~~ When detectable warnings are provided at bus stop boarding and alighting areas, detectable warnings shall comply with Sections 11B-705.1.1 and 11B-705.1.2.4.

REASON: DSA-AC is proposing to amend this section in coordination with related amendments to Section 11B-810.2.3. This section contains the scoping requirements for detectable warnings. The amendments will delete the reference to a “square curb” and provide consistent use of the term “bus stop boarding and alighting areas”.

RELATED ITEM 11B.42.2**CHAPTER 11B****DIVISION 2: SCOPING REQUIREMENTS****11B-705.1 Detectable warnings****11B-705.1.2 Locations. ...**

11B-705.1.2.4 Bus stops. ~~When detectable warnings are provided at bus stop pads, it shall be 36 inches (914 mm) in width~~ boarding and alighting areas, they shall extend the full width of the boarding/alighting area and shall be 36 inches (914 mm) minimum in depth.

REASON: DSA-AC is proposing to amend this section in coordination with related amendments to Section 11B-810.2.3. This section contains the technical requirements for detectable warnings. The amendments will clarify that the detectable warning must extend the full width of the bus stop boarding/alighting area and provide consistent use of the term “bus stop boarding and alighting areas”.

ITEM 11B.43

DIVISION 10: Recreation Facilities

11B-1009.2.1 Pool lift location. Pool lifts shall be located where the water level is 36 inches (914 mm) minimum and 48 inches (1219 mm) maximum.

Exceptions:

1. Where the entire pool depth is less than 36 inches (914 mm) or greater than 48 inches (1219 mm), compliance with Section 11B-1009.2.1 shall not be required.
2. Where multiple pool lift locations are provided, no more than one pool lift shall be required to be located in an area where the water level is 48 inches (1219 mm) maximum.
3. ~~Where the water depth of the entire swimming pool, wading pool or spa is less than 36 inches (914 mm), pool lifts shall be located where the water level is less than 36 inches (914 mm).~~

REASON: DSA-AC is proposing to amend this section to provide clarity and consistency for code users. This section was previously amended to carry forward a 2010 California Building Code provision for a 36 inch minimum water level where pool lifts are located. Exception 3 was added to provide relief from the 36 inch minimum requirement when the water level of a pool is less than 36 inches. DSA-AC is proposing to merge the language of Exceptions 1 and 3, providing a single exception for pools where the water level is less than 36 inches or greater than 48 inches, eliminating any possible confusion for code users. Previously added Exception 3 will be deleted.

**CHAPTER 35
REFERENCED STANDARDS**

ITEM 35.01

CHAPTER 35 – MATRIX ADOPTION TABLE

Adopting Agency		DSA-AC
Adopt entire Chapter		
Adopt entire Chapter as amended (amended Sections listed below)		
Adopt only those Sections that are listed below		X
Chapter / Section	Codes	
ANSI – S3.4.1		X
ANSI/DASMA – 303-2006		<u>X</u>
ASME – A17.1 2007/CSA B44-07		X
ASME – A18.1-2008		X
BHMA – A 156.10-2011		X
BHMA – A 156.19-2007		X
NFPA – 72-10		X

CHAPTER 35 REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in *Chapter 1, Administration, Division 1, Sections 1.1.5 and 1.1.7, and in Chapter 1, Administration, Division II, Section 102.4.*

ANSI	American National Standards Institute 25 West 43rd Street, Fourth Floor New York, NY 10036
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Standard Reference Number	Title	Referenced in code section number
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ANSI/DASMA 303-2006 Performance Criteria for Accessible Communications Entry Systems... 11B-708.1

REASON: In addition to the requirements in Division 7 of the current code, this standard provides for uniform means of evaluating the performance of accessible communication entry systems and consistent ease of use. This standard gives performance criteria for location, placement, visual user directions, volume level, call status, controls and input devices. The standard was developed with the input of various users and manufacturers. The increase in construction cost will be minimal if any. See the proposed related change to Section 11B-708.1.