

**EXPRESS TERMS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
DIVISION OF THE STATE ARCHITECT – ACCESS COMPLIANCE  
CONCERNING  
2010 CALIFORNIA BUILDING CODE (CBC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2**

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**DSA proposes to:**

1. Amend the 2010 edition of the California Building Code.
  2. Adopt new building standards that are not addressed by the model code.
  3. Adopt US DOJ Americans with Disabilities Act (ADA) Certification related accessibility standards.
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**Legend for Express Terms:**

1. **Existing California amendments or code language being modified:** All such language appears in *italics*, modified language is underlined or in ~~strikeout~~.
  2. **New California amendments:** All such language appears *underlined and in italics*.
  3. **Repealed text:** All such language appears in ~~strikeout~~.
  4. **Notation:** Authority and Reference citations are provided at the end of this document.
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**Abbreviations Used:**

Division of the State Architect-Access Compliance (DSA-AC)

Americans with Disabilities Act (ADA)

California Building Code (CBC)

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## CHAPTER 2 – DEFINITIONS

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### ITEM 1

#### SECTION 202 – DEFINITIONS

**AUTOMATED TELLER MACHINE (ATM).** *[DSA-AC] See Section 1102B.*

**POINT-OF-SALE DEVICE.** *[DSA-AC] See Section 1102B.*

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## CHAPTER 10 – MEANS OF EGRESS

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### ITEM 2

#### SECTION 1017 – AISLES

*[DSA-AC] In addition to the requirements of this section, means of egress, which provide access to, or egress from, buildings or facilities where accessibility is required for applications listed in Section 1.9.1 regulated by the Division of the State Architect--Access Compliance, shall also comply with Chapter 11A or Chapter 11B, ~~Section 1133B.4.1 or 1133B.5.5~~ Section 1133B.6, as applicable.*

**1017. General.** Aisles ...

**1017.2 Aisles in Groups B and M.** In ...

**Exception:** Nonpublic ...

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## CHAPTER 11B – ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATIONS, COMMERCIAL BUILDINGS AND PUBLICLY FUNDED HOUSING

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### ITEM 3

#### SECTION 1102B – DEFINITIONS

**AUTOMATED TELLER MACHINE (ATM)** *means any electronic information processing device which accepts or dispenses cash in connection with a credit, deposit, or convenience account. The term does not include devices used solely to facilitate check guarantees or check authorizations, or which are used in connection with the*

acceptance or dispensing of cash on a person-to-person basis, such as by a store cashier.

**POINT-OF-SALE DEVICE** means any device used for the purchase of a good or service where a personal identification number (PIN) or signature is required.

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**ITEM 4**

**SECTION 1104B – ACCESSIBILITY FOR GROUP A OCCUPANCIES**

**1104B.3 Auditoriums, assembly halls, theaters and related facilities.**

**1104B.3.4 Wheelchair spaces.**

1. The number of such spaces is as shown in Table 11B-1.

**TABLE 11B-1  
WHEELCHAIR SEATING SPACES**

<b>SEATING CAPACITY</b>	<b>NO. OF WHEELCHAIR SEATING SPACES</b>
4 to 25	1
26 to 50	2
51 to <del>300</del> <u>150</u>	4
<u>151 to 300</u>	<u>5</u>
301 to 500	6
<u>501 to 5000</u>	<u>6, plus 1 for each 100, or fraction thereof, between 501 through 5000</u>
<u>5001 and over</u>	<u>46, plus 1 for each 200, or fraction thereof, over 5000</u>

~~In addition, 1 percent, but not less than one, of all fixed seats, shall be aisle seats with no armrests on the aisle side, or removable or folding armrests on the aisle side. Each such seat shall be identified by a sign or marker with the International Symbol of Accessibility (see Figure 11B.6). Signage notifying patrons of the availability of such seats shall be posted at the ticket office. Signs and markers shall comply with 1117B.5.1 items 2 and 3, as applicable.~~

- ~~2. When the seating capacity exceeds 500, one additional wheelchair seating space shall be provided for each total seating capacity increase of 100.~~

**3. 2.** *The ground or floor at spaces shall be level and shall comply with Section 1124B.*

**1104B.3.5 Placement of wheelchair locations.** *Wheelchair areas shall ...*

**1104B.3.6 Size of wheelchair location.** *Each wheelchair location ...*

**1104B.3.7 Removable seats.** *Readily removable seats ...*

**1104B.3.8 Seating for semi-ambulant individuals.** *In addition to ...*

**1104B.3.9 Designated aisle seats.** *In addition to the wheelchair spaces required, 5 percent, but not less than one, of all fixed seats, shall be designated aisle seats with no armrests on the aisle side, or with removable or folding armrests on the aisle side. The designated aisle seats shall be those located closest to accessible routes. Each such seat shall be identified by a sign or marker with the International Symbol of Accessibility (see Figure 11B-6). Signage notifying patrons of the availability of such seats shall be posted at the ticket office. Signs and markers shall comply with Section 1117B.5.1 items 2 and 3, as applicable.*

**1104B.3.9 1104B.3.10 Life safety.** *In determining ...*

**1104B.3.10 1104B.3.11 Access to performing areas.** *An accessible route ...*

**1104B.3.11 1104B.3.12 Stages, enclosed and unenclosed platforms, and orchestra pits.** *Stages, enclosed and ...*

**1104B.3.12 1104B.3.13 Ticket booths.** *Customer and employee ...*

**1104B.3.13 1104B.3.14 Miscellaneous areas.** *Public toilets ...*

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## ITEM 5

### SECTION 1104B – ACCESSIBILITY FOR GROUP A OCCUPANCIES

**1104B.4 Stadiums, grandstands, bleachers, athletic pavilions, gymnasiums and miscellaneous sport-related facilities.**

**1104B.4.2 Ticket booth.** *Ticket booths shall comply with Section 1104B.3.12 1104B.3.13.*

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## ITEM 6

### SECTION 1106B – ACCESSIBILITY FOR GROUP E OCCUPANCIES

**1106B.4 Library general use areas.**

**4. Card catalogs and magazine displays.** *Minimum clear aisle space and maximum reach heights at card catalogs and magazine displays shall comply with*

*Section 1118B, with a height of 48 inches (1219 mm) preferred irrespective of reach allowed Sections 1118B.5 and 1118B.6.*

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## ITEM 7

### SECTION 1115B – BATHING AND TOILET FACILITIES (SANITARY FACILITIES)

#### 1115B.3 Toilet facilities.

**1115B.3.1 Multiple-accommodation toilet facilities.** *See Figure 11B-1B. Multiple-accommodation toilet facilities shall have the following: ...*

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## ITEM 8

### SECTION 1115B – BATHING AND TOILET FACILITIES (SANITARY FACILITIES)

#### 1115B.4 Accessible fixtures.

##### 1115B.4.4 Accessible showers. ...

**1115B.4.4.8 Shower accessories.** *Shower accessories shall include:*

- 1. A folding seat ...*
  - 2. Grab bars located on walls adjacent to and opposite the seat. Grab bars shall also comply with the diameter, loading and projection requirements of Section 1115B.7. Grab bars shall be mounted between a minimum of 33 inches (838 mm) and a maximum of 36 inches (914 mm) above the shower floor with an L-shaped grab bar mounted on walls opposite and adjacent to the front edge of the seat, but not extended to include that portion of wall over the seat. See Figure 11B-2A, or 11B-2B, or 11B-2C.*
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## ITEM 9

### SECTION 1115B – BATHING AND TOILET FACILITIES (SANITARY FACILITIES)

**1115B.7 Grab bars, tub and shower seats.** *All grab bars, tub and shower seats shall comply with this section.*

**1115B.7.1 Diameter or width.** *The diameter ...*

**1115B.7.2 Structural strength.** *The structural strength ...*

**1115B.7.3 Surface.** *A grab bar ...*

**1115B.7.4 Unobstructed use.** *Adjacent elements, for example water closet flush valves, shall be positioned to provide unobstructed use of grab bars at the specified locations. The space between the grab bar and projecting objects below and at the ends shall be 1-1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.*

**Exception:** The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1-1/2 inches (38 mm) minimum.

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## ITEM 10

### SECTION 1116B – ELEVATORS AND PLATFORM (WHEELCHAIR) LIFTS

#### 1116B.1 Elevators.

##### 1116B.1.8 Car inside. The car inside ...

~~The centerline of elevator floor car control buttons with floor designations shall be no higher than 54 inches (1372 mm) above the finish floor for side approach and 48 inches (1219 mm) for front approach located within one of the reach ranges specified in Sections 1118B.5 and 1118B.6. Emergency controls, including the emergency stop and alarm, shall be grouped in or adjacent to the bottom of the panel and shall be no lower than 2 feet 11 inches (889 mm) from the floor.~~

~~For multiple controls ...~~

~~Emergency two-way ...~~

~~Where possible, a 48-inch (1219 mm) maximum height for elevator floor buttons is preferred.~~

~~Controls shall be located ...~~

**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) above the finish floor where a parallel approach is provided.

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## ITEM 11

### SECTION 1117B – OTHER BUILDING COMPONENTS

#### 1117B.7 Automated teller machines and point of sale machines.

##### ~~1117B.7.1 Definitions.~~

~~**AUTOMATED TELLER MACHINE (ATM)** means any electronic information~~

~~processing device, including a point-of-sale machine, used by a financial institution or other business entity and its customers for the primary purpose of executing financial transactions between itself and its customers. For the purposes of this section, "automated teller machine" includes point-of-sale machines used in grocery stores, ticket sales facilities and other business entities, but does not include card reading devices located on fuel pump islands at gasoline service stations and motor vehicle fuel facilities.~~

~~**ATM SITE** means that immediate area which is within or made or to be made part of an existing building or a building to be constructed, and to which one or more ATMs is or shall be affixed.~~

~~**ATM INSTALLATION** means a single ATM structurally affixed to a building or other structure.~~

~~**1117B.7.2 General.** Where ATMs are provided for the public, they shall comply with this section.~~

**1117B.7.1 General.** Where ATMs, self-service fare vending, collection, or adjustment machines and point-of-sale devices are provided for the public they shall comply with Section 1117B.7.

**Exceptions:**

~~1. In grocery stores and other retail outlets with point-of-sale machines located at individual check stands, machines that are located at accessible check stands must be made accessible. Where machines are located away from individual check stands, they must all be made accessible.~~

~~2. 1. Where the enforcing agency determines that compliance with this regulation would create an unreasonable hardship, an exception may be granted when equivalent facilitation is provided through the use of other methods or materials.~~

~~3. 2. In existing buildings, these regulations shall not apply when legal or physical constraints would not allow compliance with these regulations or equivalent facilitation without creating an unreasonable hardship. See Section 1.9.1.5.~~

~~4. Drive-up only ATMs are not required to comply with this section.~~

~~5. 3. Card reading devices located on fuel pump islands at gasoline service stations and motor-vehicle fuel facilities shall comply with the requirements of Chapter 11C.~~

**1117B.7.1.1** Where ATMs or fare machines are provided, they shall be provided in accordance with Section 1117B.7.1.1 for each type provided.

**1117B.7.1.1.1 One ATM.** Where one ATM or fare machine is provided at a location, it shall comply with Sections 1117B.7.2 through 1117B.7.8.

**1117B.7.1.1.2 Two ATMs.** Where two ATMs or fare machines are provided at a location, one shall comply with Sections 1117B.7.2 through 1117B.7.8 and one shall comply with Sections 1117B.6 Items 2 and 4, 1117B.7.2, 1117B.7.4, 1117B.7.5, 1117B.7.6, 1117B.7.7.2 and 1117B.7.8.

**1117B.7.1.1.3 Three or more ATMs.** Where three or more ATMs or fare machines are provided at a location, at least 50 percent shall comply with Sections 1117B.7.2 through 1117B.7.8 and the rest shall comply with Sections 1117B.6 Items 2 and 4, 1117B.7.2, 1117B.7.4, 1117B.7.5, 1117B.7.6, 1117B.7.7.2 and 1117B.7.8.

**1117B.7.1.2** Where bins are provided for envelopes, waste paper, or other purposes, at least one of each type shall comply with Sections 1118B.4 and either 1118B.5 or 1118B.6.

**1117B.7.1.3** Where point-of-sale devices are provided, all devices at each location shall comply with Sections 1117B.6 Item 4 and 1117B.7.9. Where a point-of-sale system is changed or modified to include a video touch screen or any other non-tactile keypad, all changed or modified point-of-sale devices at each location shall comply with Sections 1117B.6 Item 4 and 1117B.7.9. Where point-of-sale devices are provided at accessible check stands, sales or service counters, they shall also comply with Sections 1117B.7.2, 1117B.7.3 and 1117B.7.4.

~~**1117B.7.3 Controls.** Controls for user activation shall comply with the requirements of Section 1117B.6, Item 4, which states that controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N).~~

~~**1117B.7.4 Clearances and reach range.** Free-standing or built-in units not having a clear space under them shall comply with the following as to clearance and reach range.~~

~~**1117B.7.4.1 Where one ATM is provided.** Where one ATM is provided at a location, it shall meet the specifications of Section 4.34 of the Americans with Disabilities Act Standards for Accessible Design as follows:~~

- ~~1. The ATM shall be located so that clear floor space complying with Section 1118B.4 is provided to allow a person using a wheelchair~~

~~to make a forward approach, a parallel approach, or both, to the machine.~~

~~**2. Forward approach only.** If only a forward approach is possible, operable parts of all controls shall be placed within the forward reach range specified in Section 1118B.5.~~

~~**3. Parallel approach only.** If only a parallel approach is possible, operable parts of controls shall be placed as follows:~~

~~**3.1. Reach depth not more than 10 inches (254 mm).**~~

~~Where the reach depth to the operable parts of all controls as measured from the vertical plane perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the ATM or surround is not more than 10 inches (254 mm), the maximum height from the floor shall be 54 inches (1372 mm).~~

~~**3.2. Reach depth more than 10 inches (254 mm).**~~

~~Where the reach depth to the operable parts of any control as measured from the vertical plane perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the ATM or surround is more than 10 inches (254 mm), the maximum height from the floor shall be as shown in Table 11B-5.~~

~~**4. Forward and parallel approach.** If both a forward and parallel approach are possible, operable parts of controls shall be placed within at least one of the reach ranges in Item 2 or 3.~~

~~**5. Bins.** Where bins are provided for envelopes, waste paper, or other purposes, at least one of each type provided shall comply with the applicable reach ranges in Item 2, 3 or 4.~~

~~**Exception:** Where a function can be performed in a substantially equivalent manner by using an alternate control, only one of the controls needed to perform that function is required to comply with this section. If the controls are identified by tactile markings, such markings shall be provided on both controls.~~

~~**1117B.7.4.2 Where two ATMs are provided.** Where two ATMs are provided at a location, one shall comply with Section 1117B.7.4.1, except that the highest operable part shall be 48 inches (1219 mm) maximum. The second ATM is not regulated as to height, including height of display.~~

~~**1117B.7.4.3 Where three or more ATMs are provided.** *Where three or more ATMs are provided, two shall be used to satisfy Section 1117B.7.4.2 above. For the additional ATMs beyond the first two, at least 50 percent shall comply with Section 1117B.7.4.1. The remainder are not regulated as to height, including height of display. If features provided differ from ATM to ATM, all features shall be equally represented among the accessible ATMs.*~~

**1117B.7.2 Clear Floor or Ground Space.** *A clear floor or ground space complying with Section 1118B.4 shall be provided.*

**Exception:** *Clear floor or ground space shall not be required at drive-up only ATMs, fare machines and point-of-sale devices.*

**1117B.7.3 Operable Parts.** *Operable parts shall comply with Section 1117B.6. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.*

**Exception:** *Drive-up only ATMs, fare machines and point-of-sale devices shall not be required to comply with Section 1117B.6 Items 2 and 3.*

**1117B.7.4 Privacy.** *Machines and devices shall provide the opportunity for the same degree of privacy of input and output available to all individuals.*

**1117B.7.5 Speech Output.** *Machines shall be speech enabled. Operating instructions and orientation, visible transaction prompts, user input verification, error messages, and all displayed information for full use shall be accessible to and independently usable by individuals with vision impairments. Speech shall be delivered through a mechanism that is readily available to all users, including but not limited to, an industry standard connector or a telephone handset. Speech shall be recorded or digitized human, or synthesized.*

**Exceptions:**

- 1.** *Audible tones shall be permitted instead of speech for visible output that is not displayed for security purposes, including but not limited to, asterisks representing personal identification numbers.*
- 2.** *Advertisements and other similar information shall not be required to be audible unless they convey information that can be used in the transaction being conducted.*
- 3.** *Where speech synthesis cannot be supported, dynamic alphabetic output shall not be required to be audible.*

**1117B.7.5.1 User Control.** *Speech shall be capable of being repeated or interrupted. Volume control shall be provided for the speech function.*

**Exception:** *Speech output for any single function shall be permitted to be automatically interrupted when a transaction is selected.*

**1117B.7.5.2 Receipts.** Where receipts are provided, speech output devices shall provide audible balance inquiry information, error messages, and all other information on the printed receipt necessary to complete or verify the transaction.

**Exceptions:**

- 1. Machine location, date and time of transaction, customer account number, and the machine identifier shall not be required to be audible.**
- 2. Information on printed receipts that duplicates information available on-screen shall not be required to be presented in the form of an audible receipt.**
- 3. Printed copies of bank statements and checks shall not be required to be audible.**

**1117B.7.6 Input.** Input devices shall comply with Section 1117B.7.6.

**1117B.7.6.1 Input Controls.** At least one tactilely discernible input control shall be provided for each function. Where provided, key surfaces not on active areas of display screens, shall be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernible from surrounding surfaces and adjacent keys.

**1117B.7.6.2 Numeric Keys.** Numeric keys shall be arranged in a 12-key ascending or descending telephone keypad layout. The number five key shall be tactilely distinct from the other keys. See Figure 11B-41.

**1117B.7.6.3 Function Keys.** Function keys shall comply with Section 1117B.7.6.3.

**1117B.7.6.3.1 Contrast.** Function keys shall contrast visually from background surfaces. Characters and symbols on key surfaces shall contrast visually from key surfaces. Visual contrast shall be either light-on-dark or dark-on-light.

**Exception:** Tactile symbols required by Section 1117B.7.6.3.2 shall not be required to comply with Section 1117B.7.6.3.1.

**1117B.7.6.3.2 Tactile Symbols.** Function key surfaces shall have tactile symbols as follows: Enter or Proceed key: raised circle; Clear or Correct key: raised left arrow; Cancel key: raised letter ex; Add Value key: raised plus sign; Decrease Value key: raised minus sign.

**1117B.7.5 Display.** ~~LED, cathode ray or other screen devices intended to be viewed by the user shall be positioned so they are readily visible to and usable by a person sitting in a wheelchair with approximate eye level of 45 inches (1143 mm),~~

*and shall comply with the following requirements:*

**1117B.7.7 Display Screen.** *The display screen shall comply with Section 1117B.7.7.*

**Exception:** *Drive-up only automatic teller machines and fare machines shall not be required to comply with Section 1117B.7.7.1.*

**1117B.7.7.1 Visibility.** *The display screen shall be visible from a point located 40 inches (1016 mm) above the center of the clear floor space in front of the machine.*

- ~~1. **Vertically mounted screen devices.** *If mounted vertically or tipped no more than 30 degrees away from the viewer, the center line of screens and other screen devices shall be located a maximum of 52 inches (1321 mm) above grade.*~~
- ~~2. **Angle-mounted screen devices.** *If mounted at an angle between 30 degrees and 60 degrees tipped away from the viewer, the center line of screens and other screen devices shall be located a maximum of 44 inches (1118 mm) above grade.*~~
- ~~3. **Horizontally mounted screen devices.** *If mounted at an angle between 60 degrees and 90 degrees tipped away from the viewer, the center line of screens and other screen devices shall be located a maximum of 34 inches (864 mm) above grade.*~~

**1117B.7.7.1.1 Vertically mounted display screen.** *Where display screens are mounted vertically or no more than 30 degrees tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 52 inches (1321 mm) above the floor or ground surface.*

**1117B.7.7.1.2 Angle-mounted display screen.** *Where display screens are mounted between 30 degrees and 60 degrees tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 44 inches (1118 mm) above the floor or ground surface.*

**1117B.7.7.1.3 Horizontally mounted display screen.** *Where display screens are mounted no less than 60 degrees and no more than 90 degrees (horizontal) tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 34 inches (864 mm) above the floor or ground surface.*

**Exception:** *ATMs unregulated as to height in Sections 1117B.7.4 through 1117B.7.4.3 above are also exempt from this section.*

1117B.7.7.2 Characters. Characters displayed on the screen shall be in a sans serif font. Characters shall be 3/16 inch (4.8 mm) high minimum based on the uppercase letter "I". Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

~~1117B.7.6 ATM equipment for persons with vision impairments. Instructions and all information for use shall be made accessible to and independently usable by persons with vision impairments.~~

1117B.7.8 Braille Instructions. Braille instructions for initiating the speech mode shall be provided. Braille shall comply with Section 1117B.5.6.

1117B.7.9 Point-of-sale devices. Point-of-sale systems that include a video touch screen or any other non-tactile keypad shall be equipped with either of the following:

1117B.7.9.1 A tactilely discernible numerical keypad similar to a telephone keypad containing a raised dot with a dot base diameter between 1.5 mm and 1.6 mm and a height between 0.6 mm and 0.9 mm on the number 5 key that enables a visually impaired person to enter his or her own personal identification number or any other personal information necessary to process the transaction in a manner that provides the opportunity for the same degree of privacy input and output available to all individuals.

1117B.7.9.2 Other technology, such as a radio frequency identification device, fingerprint biometrics, or some other mechanism that enables a visually impaired person to access the video touch screen device with his or her personal identifier and to process his or her transaction in a manner that provides the opportunity for the same degree of privacy input and output available to all individuals. Where a video screen overlay is provided it shall be equipped with a tactilely discernible numerical keypad complying with Section 1117B.7.9.1.

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## ITEM 12

### SECTION 1117B – OTHER BUILDING COMPONENTS

#### 1117B.7 Automated teller machines and point of sale machines.

**TABLE 11B-5  
MAXIMUM REACH DEPTH FOR AUTOMATED TELLER MACHINES**

<b>REACH DEPTH (X)</b>	<b>MAXIMUM HEIGHT (Y)</b>
<b>(inches)</b>	<b>(inches)</b>
<b>* 25.4 for mm</b>	
10	54
11	53.5

12	53
13	52.5
14	51.5
15	51
16	50.5
17	50
18	49.5
19	49
20	48.5
21	47.5
22	47
23	46.5
24	46

See Figure 11B-5F (d).

## ITEM 13

### SECTION 1118B – SPACE ALLOWANCE AND REACH RANGES

**1118B.5 Forward reach.** *If the clear floor space allows only forward approach to an object, the maximum high forward reach allowed shall be 48 inches (1219 mm) [see Figure 11B-5C(a)]. The minimum low forward reach is 15 inches (381 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Figure 11B-5C(b).*

**1118B.5.1 Unobstructed.** *Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1219 mm) maximum and the low forward reach shall be 15 inches (381 mm) minimum above the finish floor or ground. See Figure 11B-5C (a).*

**1118B.5.2 Obstructed high reach.** *Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1219 mm) maximum where the reach depth is 20 inches (508 mm) maximum. Where the reach depth exceeds 20 inches (508 mm), the high forward reach shall be 44 inches (1118 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum. See Figure 11B-5C (b) and (c).*

## ITEM 14

### SECTION 1118B – SPACE ALLOWANCE AND REACH RANGES

**1118B.6 Side reach.** *If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 inches (1372 mm) and the*

~~low side reach shall be no less than 9 inches (229 mm) above the floor [see Figure 11B-5D(a) and (b)]. If the side reach is over an obstruction, the reach and clearances shall be as shown in Figure 11B-5D(c).~~

**1118B.6.1 Unobstructed.** *Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1219 mm) maximum and the low side reach shall be 15 inches (381 mm) minimum above the finish floor or ground. See Figure 11B-5D (a).*

**Exception:** *An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (254 mm) maximum.*

**1118B.6.2 Obstructed high reach.** *Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (864 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1219 mm) maximum for a reach depth of 10 inches (254 mm) maximum. Where the reach depth exceeds 10 inches (254 mm), the high side reach shall be 46 inches (1168 mm) maximum for a reach depth of 24 inches (610 mm) maximum. See Figure 11B-5D (b) and (c).*

**Exception:** *The top of washing machines and clothes dryers shall be permitted to be 36 inches (914 mm) maximum above the finish floor.*

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## ITEM 15

### SECTION 1125B – STORAGE

**1125B.3 Height.** *Accessible storage spaces, including closets with a clothes rod or shelf, shall be within at least one of the reach ranges specified in Sections 1118B.5 and 1118B.6. Clothes rods shall be a maximum of 54 inches (1372 mm) from the floor for a side approach (See Figure 11B-5D). Where the distance from the wheelchair to the clothes rod or shelf exceeds 10 inches (254 mm), as in closets without accessible doors, the height and depth to the rod or shelf shall comply with Figure 11B-5D.*

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## ITEM 16

### SECTION 1129B – ACCESSIBLE PARKING REQUIRED

**1129B.1 General.** *Each lot or parking structure ... Table 11B-6 establishes the number of accessible parking spaces required.*

**TABLE 11B-6  
SPACES REQUIRED**

*Establishes the number of accessible parking spaces required.*

<b>TOTAL NUMBER OF PARKING SPACES IN LOT OR GARAGE</b>	<b>MINIMUM REQUIRED NUMBER OF SPACES</b>
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1,000	*
1,001 and over	**

\*Two percent of total.

\*\*Twenty plus one for each 100, or fraction thereof, over 1,001. 1000.

**ITEM 17**

**SECTION 1129B – ACCESSIBLE PARKING REQUIRED**

**1129B.4 Identification of parking spaces for off-street parking facilities.** Each parking space ...

*Van accessible spaces ...*

*An additional sign ...*

*In addition to the above requirements, the surface of each accessible parking space or stall shall have a surface identification duplicating either of the following schemes:*

- 1. By outlining or painting the stall or space in blue and outlining an International Symbol of Accessibility on the ground in the stall or space in white or suitable contrasting color ~~a profile view depicting a wheelchair with occupant~~; or*
- 2. By outlining ~~a profile view of a wheelchair with occupant~~ an International Symbol of Accessibility on the ground in the stall or space in white on blue background. The profile view shall be located so that it is visible to a traffic enforcement officer when a vehicle is properly parked in the space and shall be ~~36 inches high by 36 inches wide (914 mm by 914 mm)~~. See Figures 11B-18A through 11B-18C.*

*The International Symbol of Accessibility shall be a minimum 36 inches high by 36 inches*

wide (914 mm by 914 mm) and shall be aligned with the end of the stall or space adjacent to the traffic aisle so that it is visible to a traffic enforcement officer when a vehicle is properly parked in the space. See Figures 11B-18A, 11B-18B and 11B-18C.

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## ITEM 18

(Realign the indentation to indicate the exceptions apply to all of Section 1133B.2.3, not only to Section 1133B.2.3.2)

### **SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

#### **1133B.2 Doors.**

**1133B.2.3 Hinged doors.** For hinged doors, the opening width...

**1133B.2.3.1 Pairs Pair of doors.** Where a pair of doors is utilized, at least one of the doors shall provide a clear, unobstructed opening width of 32 inches (813 mm) with the leaf positioned at an angle of 90 degrees from its closed position. See Figure 11B-5B(b).

**1133B.2.3.2 Automatic and power-assisted doors.** If an automatic door is used, then it shall comply with BHMA A156.10. Slowly opening, low-powered, automatic doors shall comply with BHMA A156.19. Such doors shall not open to back check faster than 3 seconds and shall require no more than 15 lbf (66.72 N) to stop door movement. If a power-assisted door is used, its door-opening force shall comply with 1133B.2.5 and its closing shall conform to the requirements in BHMA A156.19. When an automatic door operator is utilized to operate a pair of doors, at least one of the doors shall provide a clear, unobstructed opening width of 32 inches (813 mm) with the door positioned at an angle of 90 degrees from its closed position.

#### **Exceptions:**

~~1. The provisions of Section 1133B.2.3 shall not apply to existing buildings, except when otherwise required under conditions applicable to access for persons with disabilities. In existing buildings, the following shall apply:~~

1. Where In existing buildings, where the occupant load is less than 10, except Group I, Division 1 Occupancies, or where the occupant load is greater than 10 and it is determined that compliance with Section 1133B.2.3 would create an unreasonable hardship, a projection of 5/8 inch (16 mm) maximum will be permitted for the latch side stop.

2. In existing buildings, the provisions of this section shall not apply when legal or physical constraints will not allow compliance with these building standards or equivalent facilitation without creating an unreasonable hardship. See Section 109.1.5.

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**ITEM 19****SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL****1133B.2 Doors.**

**1133B.2.6 Smooth surface.** *The bottom 10 inches (254 mm) of all doors except automatic and sliding shall have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. Where narrow frame doors are used, a 10-inch (254 mm) high smooth panel shall be installed on the push side of the door, which will allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. See Figure 11B-29.*

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**ITEM 20****SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL****1133B.3 Corridors, hallways and exterior exit balconies.**

**1133B.3.2 Corridors and hallways over 200 feet (60 960 mm).** *Corridors and hallways that are located on an accessible route and exceed 200 feet (60 960 mm) in length shall have a minimum clear width of 60 inches (1524 mm). If an accessible route has less than 60 inches (1524 mm) clear width, then passing spaces at least 60 inches by 60 inches (1524mm by 1524 mm) shall be located at intervals of 200 feet (60 960 mm maximum). A “T” intersection of two corridors or walks is an acceptable passing place. See Figure 11B-34.*

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**ITEM 21****SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

**1133B.4 Stairways.** *Stairways shall conform to the provisions of this section.*

**1133B.4.2 Handrail configuration.**

**1133B.4.2.1** *The top of handrail gripping surface shall be mounted between 34 to 38 inches (864 to 965 mm) above the nosing of the treads. See Figure 11B-35.*

**1133B.4.2.2** *Handrails shall extend a minimum of 12 inches (305 mm) beyond the top nosing and 12 inches (305 mm), plus the tread width, beyond the bottom nosing. At the top, the extension shall be parallel with the floor or*

ground surface. At the bottom, the handrail shall continue to slope for a distance of the width of one tread from the bottom riser; the remainder of the extension shall be horizontal. The extensions of handrails shall be in the same direction of the stair flights. See Figures 11B-35 and 11B-37.

**Exceptions:**

1. In new construction, the inside handrail on switchback or dogleg stairs shall always be continuous.
2. In existing buildings and facilities, full extension of handrails at stairs shall not be required in alterations where such extensions would be hazardous or impossible due to plan configuration.

**1133B.4.2.3** Ends shall be returned...

**1133B.4.2.4** The orientation of at least one...

**1133B.4.2.5** Handrails projecting from a wall shall have a space of 1-½ inches (38 mm) between the wall and the handrail.

Handrails may be located in a recess if the recess is a maximum of 3 inches (76 mm) deep and extends at least 18 inches (457 mm) above the top of the rail. Handrails shall not rotate in their fittings. See Figure 11B-36(b).

**1133B.4.2.6 Handgrips.** The handgrip portion of handrails shall be not less than 1-¼ inches (32 mm) nor more than 1-½ inches (38 mm) in cross-sectional nominal dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top or sides) shall be uninterrupted by newel posts, other construction elements or obstructions. Adjacent elements shall be positioned to provide unobstructed use of handrails. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Edges shall have a minimum radius of ⅛ inch (3.2 mm). See Figure 11B-36.

**Exceptions:**

1. In existing buildings ...
2. These regulations ...

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**ITEM 22**

**SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

**1133B.4 Stairways.** Stairways shall ...

**1133B.4.4 Striping for the visually impaired.** Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual contrast. Exterior stairs shall have the upper approach and all treads marked by a stripe providing clear visual contrast. See Figure 11B-35.

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**ITEM 23**

**SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

**1133B.4 Stairways.** Stairways shall ...

**1133B.4.5 Stair treads, risers and nosing.** Stair treads ...

**1133B.4.5.1 Treads.** All tread surfaces shall be slip resistant. Weather-exposed stairs and their approaches shall be designed so that water will not accumulate on the walking surfaces. Treads shall have smooth, rounded or beveled exposed edges. See Figure 11B-35.

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**ITEM 24**

**SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

**1133B.5 Ramps.**

**1133B.5.4 Landings.** ...

**1133B.5.4.6 Change of direction.** Intermediate and bottom landings at a change of direction ~~in excess of 30 degrees~~ shall have a dimension in the direction of ramp run of not less than 72 inches (1829 mm) to accommodate the handrail extension.

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**ITEM 25**

**SECTION 1133B – GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL**

**1133B.5.5 Handrails for ramps.**

**1133B.5.5.1** Handrails are required on ramps that provide access if slope exceeds one unit vertical in 20 units horizontal (5-percent slope), ~~except that at exterior door landings, handrails are not required on ramps less than 6 inches (152 mm) rise or 72 inches (1829 mm) in length.~~ Handrails shall be placed on each side of each ramp, shall be continuous the full length of ~~the ramp~~ each ramp run, shall be 34 to 38 inches (864 to 965 mm) above the ramp surface to the top of the handrails, shall extend a minimum of 1 foot (305 mm) beyond the top and bottom of the ramp and shall be parallel with the floor or ground surface. The extensions of handrails shall be in the same direction of the ramp runs. The inside handrail on switchback or

*dogleg ramps shall always be continuous. The ends of handrails shall be either rounded or returned smoothly to floor, wall or post. Handrails projecting from a wall shall have a space of 1-½ inches (38 mm) between the wall and the handrail. Handrails may be located in a recess if the recess is a maximum of 3 inches (76 mm) deep and extends at least 18 inches (457 mm) above the top of the rail. The grip portion shall not be less than 1-1/4 inches (32 mm) nor more than 1-1/2 inches (38 mm) in cross-sectional nominal dimension or the shape shall provide an equivalent gripping surface, and all surfaces shall be smooth with no sharp corners. Adjacent elements shall be positioned to provide unobstructed use of handrails at the specified locations. Handrails shall not rotate within their fittings. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Edges shall have a minimum radius of 1/8 inch (3 mm). See Figure 11B-27.*

**Exceptions:**

- 1. Handrails at ramps immediately adjacent to fixed seating in assembly areas are not required.*
- 2. Curb ramps do not require handrails.*
- 3. At door landings, handrails are not required on ramp runs less than 6 inches (152 mm) in rise or 72 inches (1829 mm) in length.*

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**ITEM 26**

**SECTION 1134B -- ACCESSIBILITY FOR EXISTING BUILDINGS**

**1134B.2 General. ...**

**1134B.2.1** *A primary entrance to the building or facility and the primary path of travel to the specific area of alteration, structural repair or addition, and sanitary facilities, drinking fountains, signs and public telephones serving the area.*

**Exceptions:**

- 1. When the total construction cost of alterations, structural repairs or additions does not exceed a valuation threshold of \$50,000, based on January 1981, "ENR US 20 Cities" Average construction cost index of 3372.02 (Engineering News Record, McGraw Hill Publishing Company), and the enforcing agency finds that compliance with this code creates an unreasonable hardship, compliance shall be limited to the actual work of the project. The enforcing agency shall annually update the valuation threshold to a current amount based on the increase in the index since the last figure used. (For example, the January ~~2010~~ 2011 amount is ~~\$128,410.86~~ \$132,536.28.) For purposes of this exception, ...*

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**ITEM 27**

**FIGURE 11B-1D** – DSA-AC is proposing to add a new figure, to be consistent with the new 2010 ADA Standards Figure 609.3 adopted in July 2010 by USDOJ. A related change is

being made to 1115B.7.

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**ITEM 28**

**FIGURE 11B-4** – DSA-AC is proposing to amend this figure to be consistent with the new 2010 ADA Standards Figures 308.2.1, 308.2.2, 308.3.1 and 308.3.2 adopted in July 2010 by USDOJ. Related changes are being made to Sections 1118B.5 and 1118B.6.

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**ITEM 29**

**FIGURE 11B-5C** – DSA-AC is proposing to amend this figure to be consistent with the new 2010 ADA Standards Figures 308.2.1, 308.2.2, 308.3.1 and 308.3.2 adopted in July 2010 by USDOJ. Related changes are being made to Sections 1118B.5 and 1118B.6.

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**ITEM 30**

**FIGURE 11B-5D** – DSA-AC is proposing to amend this figure to be consistent with the new 2010 ADA Standards Figures 308.2.1, 308.2.2, 308.3.1 and 308.3.2 adopted in July 2010 by USDOJ. Related changes are being made to Sections 1118B.5 and 1118B.6.

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**ITEM 31**

**FIGURE 11B-5F** – DSA-AC is proposing to repeal this figure. The corresponding text in Section 1117B.7 is being amended to eliminate the reference to Figure 11B-5F. A reference to Sections 1118B.5 and 1118B.6 and corresponding amended Figures 11B-5C & 5D is being added (see above).

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**ITEM 32**

**FIGURE 11B-17** – DSA-AC is proposing to amend this figure to be consistent with the new 2010 ADA Standards Figures 308.2.1, 308.2.2, 308.3.1 and 308.3.2 adopted in July 2010 by USDOJ. Related changes are being made to Sections 1118B.5 and 1118B.6.

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**ITEM 33**

**FIGURE 11B-40B** – DSA-AC is proposing to amend this figure to be consistent with the new 2010 ADA Standards Figures 308.2.1, 308.2.2, 308.3.1 and 308.3.2 adopted in July 2010 by USDOJ. Related changes are being made to Sections 1118B.5 and 1118B.6.

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## ITEM 34

**FIGURE 11B-41** – DSA-AC is proposing to add a new figure, to be consistent with the new 2010 ADA Standards Figure 707.6.2 adopted in July 2010 by USDOJ. Figure 11B-41 illustrates both a 12-key ascending and 12-key descending numeric key layout. Related changes are being made to Section 1117B.7.

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**Authority:** Government Code Section 4450  
**References:** Government Code Sections 4450 through 4461 & 12955.1(d)  
Health and Safety Code Sections 18949.1 & 19952 through 19959