

**DRAFT PROPOSED CODE CHANGES
FOR
THE CALIFORNIA BUILDING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2**

**2016 CALIFORNIA BUILDING CODE
TRIENNIAL CODE CYCLE**

LEGEND

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 Repealed text: All such language appears in ~~strikeout~~.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 11B
ACCESSIBILITY TO PUBLIC BUILDINGS,
PUBLIC ACCOMMODATIONS, COMMERCIAL BUILDINGS AND PUBLICLY FUNDED HOUSING**

ITEM 11B.xx

DIVISION 2: SCOPING REQUIREMENTS

11B-213 Toilet facilities and bathing facilities

11B-213.3 Plumbing fixtures and accessories. Plumbing fixtures and accessories provided in a toilet room or bathing room required to comply with *Section 11B-213.2* shall comply with *Section 11B-213.3*.

11B-213.3.1 Toilet compartments. Where toilet compartments are provided, at least *five percent* (begin underline) *of the toilet compartments, or five percent of the combination of toilet compartments and urinals.* (end underline) *but no fewer than one toilet compartment* shall comply with *Section 11B-604.8.1*. In addition to the *compartments* required to comply with *Section 11B-604.8.1*, where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures, *toilet compartments complying with Section 11B-604.8.2 shall be provided in the same quantity as the toilet compartments required to comply with Section 11B-604.8.1.*

REASON: In the previous rulemaking cycle, DSA-AC proposed an amendment to this section 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 are required. This amendment addressed 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. DSA-AC is proposing to further amend this section to clarify that the required number of toilet compartments is based on the total number of toilet compartments, e.g. a women's restroom, or the total number of toilet compartments and urinals, e.g. a men's restroom. This amendment will provide equitable numbers of toilet compartments in both men's and women's multiple accommodation toilet facilities.

ITEM 11B.xx

DIVISION 2: SCOPING REQUIREMENTS

11B-216 Signs

11B-216.8 Toilet rooms and bathing rooms. (begin strikeout) ~~Entrances to toilet rooms and bathing rooms shall be identified by a geometric symbol complying with Section 11B-703.7.2.6.~~ (end strikeout)

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.

(begin underline) **11B-216.8.1 Geometric Symbols.** Geometric symbols complying with Section 11B-703.7.2.6 shall be provided at entrances to toilet and bathing rooms.

Exceptions:

1. Geometric symbols shall not be required at entrances to toilet and bathing rooms located within semi-private rooms or spaces. Such spaces include but are not limited to: patient sleeping rooms, transient lodging guest rooms, and residential dwelling units.
2. Geometric symbols shall not be required at entrances to inmate toilet rooms and bathing rooms in detention and correctional facilities where only one gender is housed. (end underline)

REASON: DSA-AC is proposing to amend this section to clarify the scoping requirements for geometric symbols required at doorways to toilet and bathing facilities. The geometric symbols are not signs as such and the proposed amendment will address questions raised by code users when determining the requirements for geometric symbols at doorways to toilet and bathing rooms as opposed to signs. In addition, exception one eliminates the requirement for geometric symbols at doorways to toilet and bathing facilities where access to the facilities is limited to the occupant and their guests or medical personnel. In such spaces the user can easily determine the location of the toilet and bathing facilities. Exception two is proposed to be relocated from technical Section 11B-703.7.2.6 to this section in order to locate the scoping requirements for geometric symbols in one location. This amendment will provide clarity and consistency for code users.

ITEM 11B.xx.01 – RELATED CODE AMENDMENT

DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES

11B-703.7 Symbols of accessibility. ...

11B-703.7.2 Symbols

11B-703.7.2.6 Toilet and bathing facilities geometric symbols. (begin strikeout) ~~Doorways leading to toilet rooms and bathing rooms shall be identified by a geometric symbol complying with Section 11B-703.7.2.6. The symbol~~ (end strikeout) (begin underline) Geometric symbols

at entrances to toilet and bathing rooms (end underline) shall be mounted at 58 inches (1473 mm) minimum and 60 inches (1524 mm) maximum above the finish floor or ground surface measured from the centerline of the symbol. Where a door is provided the symbol shall be mounted within 1 inch (25 mm) of the vertical centerline of the door.

(begin strikeout) ~~Exception: Geometric symbols shall not be required at inmate toilet rooms and bathing rooms in detention and correctional facilities where only one gender is housed.~~ (end strikeout)

11B-703.7.2.6.1 Men's toilet and bathing facilities. (begin strikeout) ~~Men's toilet and bathing facilities shall be identified by an equilateral triangle, 1/4 inch (6.4 mm) thick with edges 12 inches (305 mm) long and a vertex pointing upward.~~ (end strikeout) (begin underline) An equilateral triangle, 1/4 inch (6.4 mm) thick minimum with edges 12 inches (305 mm) long minimum and a vertex pointing upward, shall be located at entrances to men's toilet and bathing facilities. (end underline) The triangle symbol shall contrast with the door, either light on a dark background or dark on a light background.

11B-703.7.2.6.2 Women's toilet and bathing facilities. (begin strikeout) ~~Women's toilet and bathing facilities shall be identified by a circle, 1/4 inch (6.4 mm) thick and 12 inches (305 mm) in diameter.~~ (end strikeout) (begin underline) A circle, 1/4 inch (6.4 mm) thick minimum and 12 inches (305 mm) minimum in diameter, shall be located at entrances to women's toilet and bathing facilities. (end underline) The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

11B-703.7.2.6.3 Unisex toilet and bathing facilities. (begin strikeout) ~~Unisex toilet and bathing facilities shall be identified by a circle, 1/4 inch (6.4 mm) thick and 12 inches (305 mm) in diameter with a 1/4 inch (6.4 mm) thick triangle with a vertex pointing upward superimposed on the circle and within the 12-inch (305 mm) diameter.~~ (end strikeout) (begin underline) A circle, 1/4 inch (6.4 mm) thick minimum and 12 inches (305 mm) minimum in diameter with a 1/4 inch (6.4 mm) thick minimum triangle with a vertex pointing upward, geometrically inscribed on the circle and within the 12-inch (305 mm) minimum diameter, shall be provided at entrances to unisex toilet and bathing facilities. The vertices of the triangle shall be located no further than a 1/4 inch (6.4 mm) maximum from the circumference of the circle. (end underline) The triangle symbol shall contrast with the circle symbol, either light on a dark background or dark on a light background. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

(begin underline) **11B-703.7.2.6.4 Edges and vertices on geometric symbols.** Edges shall be eased or rounded at 1/16 inch (1.59 mm) minimum, or chamfered at 1/8 inch (3.2 mm) maximum. Vertices shall be radiused between 1/8 inch (3.2 mm) minimum and 1/4 inch (6.4 mm) maximum.

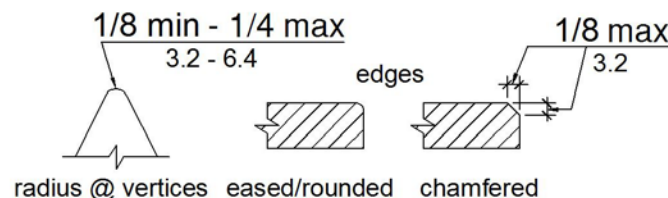


FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS (end underline)

REASON: DSA-AC is proposing to amend these existing sections and add a new section to clarify the technical requirements for geometric symbols located at the entrances to toilet and bathing facilities. DSA is proposing to add dimensional specificity to Sections 11B-703.7.2.6.1, 11B-703.7.2.6.2 and 11B-703.7.2.6.3 to provide greater consistency in the manufacture of the symbols. New Section 11B-703.7.2.6.4 will provide dimensions for eased, rounded or chamfered edges on all symbols and dimensions for the radius at vertices on triangles. The addition of a figure illustrating the requirements of Section 11B-703.7.2.6.4 will provide clarity and consistency for code users.

ITEM 11B.xx

DIVISION 2: SCOPING REQUIREMENTS

11B-247 Detectable warnings and detectable directional texture

11B-247.1 Detectable warnings.

11B-247.1.2 Where required. ...

11B-247.1.2.5 (begin strikeout) ~~Hazardous vehicular areas~~ (end strikeout) (begin underline) **Walks at vehicular areas.** (end underline) (begin strikeout) ~~#~~ (end strikeout) (begin underline) Where (end underline) a walk crosses (begin underline) a vehicular way (end underline) or adjoins a vehicular (begin strikeout) ~~way~~ (end strikeout) (begin underline) area, (end underline) and the (begin strikeout) ~~walking surfaces are~~ (end strikeout) (begin underline) walk is (end underline) not separated (begin underline) from the vehicular way or vehicular area (end underline) by curbs, railings or other elements (begin strikeout) ~~between the pedestrian areas and vehicular areas,~~ (end strikeout) the boundary between the (begin underline) walk and vehicular way or the walk and vehicular area (end underline) (begin strikeout) ~~areas~~ (end strikeout) shall be defined by a continuous detectable warning complying with Sections 11B-705.1.1 and 11B-705.1.2.5 (begin underline) placed on the walk. Detectable warnings are not required on the walk at opposite sides of a driveway apron. (end underline)

REASON: DSA-AC is proposing an amendment to this section to clarify the terminology in the code as it relates to the placement of detectable warning surfaces for walks at vehicular areas. As this section is currently written, the term “hazardous vehicular area” is applied based on what the user determines to be “hazardous”, and not based on a specific setting as defined in the code. As a result, incorrect placement of detectable warning surfaces is common in many facilities, where incorrect placement of detectable warning surfaces provides no benefit to a visually impaired user. This is evident in parking lots where detectable warning surfaces are placed at the end of accessible parking access aisles, some of which are adjacent to crosswalks and marked pedestrian ways, and all of which are components of a vehicular area. Furthermore, detectable warning surfaces in accessible parking access aisles restricts use of the access aisle for a user with mobility impairments, while providing no benefit to an individual with vision impairments, who is escorted with assistance from accessible parking areas to the areas of the facility that can be navigated independently. Amendment to this section will provide specificity for the placement of detectable warning surfaces for walks at vehicular areas.

ITEM 11B.xx.01 – RELATED CODE AMENDMENT

CHAPTER 2 – DEFINITIONS

SECTION 202 – Definitions

(begin underline) **VEHICULAR AREA. [DSA-AC]** An area where the primary use is by a driver in a vehicle on a site, such as in a parking facility or a delivery vehicle loading and unloading area.

The vehicular area in a parking facility includes vehicular ways, parking spaces, accessible parking spaces and access aisles, electric vehicle charging stations and access aisles, passenger loading zone vehicle spaces and access aisles, and crosswalks or marked pedestrian ways in vehicular areas. (end underline)

REASON: DSA-AC is proposing to add a new definition of the term “vehicular area” in coordination with the related code change to Section 11B-247.1.2.5. The adoption of this new definition will provide clarity and consistency for code users.

ITEM 11B.xx.02 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 1: APPLICATION AND ADMINISTRATION

11B-106.5 Defined terms. ...

(begin underline) **VEHICULAR AREA** (end underline)

REASON: DSA-AC is proposing to add a new definition of the term “vehicular area”.

ITEM 11B.xx.03 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 5: GENERAL SITE AND BUILDING ELEMENTS

11B-502 Parking spaces

11B-502.4 Floor or ground surfaces. Parking spaces and access aisles serving them shall comply with *Section 11B-302*. Access aisles shall be at the same level as the parking spaces they serve. Changes in level (begin underline) and detectable warnings (end underline) are not permitted (begin underline) in parking spaces and access aisles. (end underline)

Exception: Slopes not steeper than 1:48 shall be permitted.

REASON: DSA-AC is proposing an amendment to this section in coordination with the related code change to Section 11B-247.1.2.5. This amendment will clarify that detectable warnings are not permitted in parking spaces and access aisles. Detectable warning surfaces in accessible parking access aisles restricts use of the access aisle for a user with mobility impairments, while providing no benefit to an individual with vision impairments, who is escorted with assistance from accessible parking areas to the areas of the facility that can be navigated independently.

ITEM 11B.xx.04 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 5: GENERAL SITE AND BUILDING ELEMENTS

11B-503 Passenger *drop-off and loading* zones

11B-503.4 Floor and ground surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with *Section 11B-302*. Access aisles shall be at the same level as the vehicle pull-up

space they serve. Changes in level (begin underline) and detectable warnings (end underline) are not permitted (begin underline) in pull-up spaces and access aisles. (end underline)

Exception: Slopes not steeper than 1:48 shall be permitted.

REASON: DSA-AC is proposing an amendment to this section in coordination with the related code change to Section 11B-247.1.2.5. This amendment will clarify that detectable warnings are not permitted in pull-up spaces and access aisles. Detectable warning surfaces in accessible passenger drop-off and loading zones restricts use of the access aisle for a user with mobility impairments.

ITEM 11B.xx.05 – RELATED CODE AMENDMENT

CHAPTER 11B

DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES

11B-705 Detectable warnings and detectable directional texture

11B-705.1 Detectable warnings.

11B-705.1.2 Locations. ...

11B-705.1.2.5 (begin strikeout) ~~**Hazardous vehicular areas**~~ (end strikeout) (begin underline) **Walks at vehicular areas.** (end underline) *Detectable warnings* (begin strikeout) ~~*at hazardous vehicular areas*~~ (end strikeout) (begin underline) *required by 11B-247.1.2.5* (end underline) *shall be 36 inches (914 mm) in width.*

REASON: DSA-AC is proposing an amendment to this section in coordination with the related code change to Section 11B-247.1.2.5.

ITEM 11B.xx

DIVISION 4: ACCESSIBLE ROUTES

11B-411 Destination-oriented elevators

11B-411.2 Elevator landing requirements. ...

11B-411.2.1 Hall call consoles. ...

11B-411.2.1.3 Arrangement. *Hall call console arrangement of required features shall comply with Section 11B-411.2.1.3.*

11B-411.2.1.3.1 Keypad call console arrangement. ...

11B-411.2.1.3.2 Touch screen call console arrangement. ...

11B-411.2.1.3.3 Proximity of required elements. ...

11B-411.2.1.3.4 Position. (begin strikeout) ~~*The face of individual*~~ (end strikeout) (begin underline) *Individual* (end underline) *elements or group of individual elements that are operated by user input shall slope away from the user at 15 to 25 degrees from the vertical plane* (begin underline) *and shall be in compliance with 11B-307.* (end underline) (begin strikeout) ~~*The face of hall call console assemblies and the face of touch screens shall be sloped away from the user at 7 to 25 degrees from the vertical plane.*~~ (end strikeout) *Display screens and touch screens shall be positioned so glare is reduced on the screen.*

REASON: DSA-AC is proposing an amendment to this section to clarify the requirements for hall call consoles. It was not DSA-AC's intent that this provision address the sloping requirements of individual keys and the face of the hall call console independently of each other. As written, this section can be misinterpreted that both the individual keys and the face of the hall call console must be sloped. This amendment will provide clarity and consistency for code users.

ITEM 11B.xx

DIVISION 7: COMMUNICATION ELEMENTS AND FEATURES

11B-705 Detectable warnings and detectable directional texture

11B-705.1 Detectable warnings

11B-705.1.2 Locations. ...

11B-705.1.2.2 Curb ramps. *(begin underline) Detectable warnings at curb ramps shall comply with Section 11B-705.1.2.2. (end underline) Detectable warnings at curb ramps shall extend 36 inches (914 mm) in the direction of travel. Detectable warnings shall extend the full width, (begin strikeout) of the ramp run (end strikeout) less 2 inches (51 mm) maximum on each side, (begin underline) of the ramp run or flush transition between the turning space and the vehicular area required in Section 11B-705.1.2.2.1 or 11B-705.1.2.2.2. (end underline) (begin strikeout) excluding any (end strikeout) (begin underline) Detectable warnings shall not be required on (end underline) flared sides (begin underline) of curb ramps. (end underline) (begin strikeout) Detectable warnings shall be located so the edge nearest the curb is 6 inches (152 mm) minimum and 8 inches (203 mm) maximum from the line at the face of the curb marking the transition between the curb and the gutter, street or highway.*

~~**Exception:** On parallel curb ramps, detectable warnings shall be placed on the turning space at the flush transition between the street and sidewalk. Detectable warnings shall extend the full width of the turning space at the flush transition between the street and the sidewalk less 2 inches (51 mm) maximum on each side. (end strikeout)~~

*(begin underline) **11B-705.1.2.2.1 Perpendicular curb ramps.** Where perpendicular curb ramps are provided at a straight curb (tangent alignment), detectable warnings shall be placed on the ramp run starting at the back of the curb. Where perpendicular curb ramps are provided at a curved curb (curved alignment), detectable warnings shall be placed on the ramp run starting at the grade break at the bottom of the ramp run.*

***11B-705.1.2.2.2 Parallel curb ramps.** On parallel curb ramps with only one ramp segment, detectable warnings shall be placed on the ramp run starting at the grade break between the ramp run and the turning space. On parallel curb ramps where two opposed ramp segments are separated by a turning space of 60 inches (1524 mm) or less, detectable warnings shall be placed on the ramp run starting at the grade break between the ramp run and the turning space and shall not be required to comply with Section 11B-247.1.2.5. On parallel curb ramps where two opposed ramp segments are separated by a turning space of greater than 60 inches (1524 mm), detectable warnings shall be placed on the turning space starting at the flush transition between the turning space and the vehicular area. (end underline)*

REASON: DSA-AC is proposing an amendment to this section to clarify the requirements for placement of detectable warnings at perpendicular and parallel curb ramps. The proposed change reorganizes Section 11B-705.1.2.2 to separately address perpendicular and parallel curb ramps. New language for perpendicular curb ramps at a curved curb clarifies detectable warnings are to be placed on the ramp run beginning at the bottom grade break.

New language for parallel curb ramps clarifies the existing requirement to place detectable warnings over the full width of the turning space is appropriate where the turning space is greater than 60 inches in length. New requirements are added to indicate detectable warnings are to be placed on the ramp run at parallel curb ramps with a turning space of 60 inches or less, or where there is only one ramp segment.

ITEM 11B.xx

DIVISION 8: SPECIAL ROOMS, SPACES, AND ELEMENTS

(begin underline) **11B-812 Electric vehicle charging stations**

11B-812.1 General. Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.

Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access aisles.

11B-812.4 Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

11B-812.5 Accessible routes

11B-812.5.1 Accessible route to building or facility. EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: EVCS complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.

11B-812.5.2 Accessible route to EV charger. An accessible route complying with Section 11B-402 shall be provided between the vehicle space and the EV charger which serves it.

11B-812.5.3 Relationship to accessible routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-812.5.4 Arrangement. *Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.*

Exceptions:

- 1. Ambulatory EVCS shall not be required to comply with Section 11B-812.5.4.*
- 2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.*

11B-812.5.5 Obstructions. *EVCS shall be designed so accessible routes are not obstructed by cables or other elements.*

11B-812.6 Vehicle spaces. *Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches (5486 mm) long minimum and shall comply with Section 11B-812.6.1 through 11B-812.6.4 as applicable. All vehicle spaces shall be marked to define their width.*

Exceptions:

- 1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches (6096 mm) minimum.*
- 2. Vehicle spaces at drive-up EVCS shall be 240 inches (6096 mm) long minimum and shall not be required to be marked to define their width.*

11B-812.6.1 Van accessible. *Vehicle spaces serving van accessible EVCS shall be 144 inches (3658 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.*

11B-812.6.2 Standard accessible. *Vehicle spaces serving standard accessible EVCS shall be 108 inches (2743 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.*

11B-812.6.3 Ambulatory. *Vehicle spaces serving ambulatory EVCS shall be 120 inches (3048 mm) wide minimum and shall not be required to have an adjacent access aisle.*

11B-812.6.4 Drive-up. *Vehicle spaces serving drive-up EVCS shall be 204 inches (5182 mm) wide minimum and shall not be required to have an adjacent access aisle.*

11B-812.7 Access aisle. *Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches (1524 mm) wide minimum and shall extend the full required length of the vehicle spaces they serve.*

11B-812.7.1 Location. *Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.*

11B-812.7.2 Marking. *Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a minimum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.*

11B-812.7.3 Lettering. *The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches (305 mm) in height and located to be visible from the adjacent vehicular way.*

11B-812.8 Identification signs. EVCS identification signs shall be provided in compliance with Section 11B-812.8.

11B-812.8.1 Four or fewer. Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) shall not be required.

11B-812.8.2 Five to twenty-five. Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA.

11B-812.8.3 Twenty-six or more. Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.

11B-812.8.4 Ambulatory. Ambulatory EVCS shall not be required to be identified by an ISA.

11B-812.8.5 Drive-up. Drive-up EVCS shall not be required to be identified by an ISA.

11B-812.8.6 Finish and size. Identification signs shall be reflectorized with a minimum area of 70 square inches (45,161 mm²).

11B-812.8.7 Location. Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs located within an accessible route shall be 80 inches (2032 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

11B-812.9 Surface marking. EVCS vehicle spaces shall provide surface marking stating "EV CHARGING ONLY" in letters 12 inches (305 mm) high minimum. The centerline of the text shall be a maximum of 6 inches (152 mm) from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.

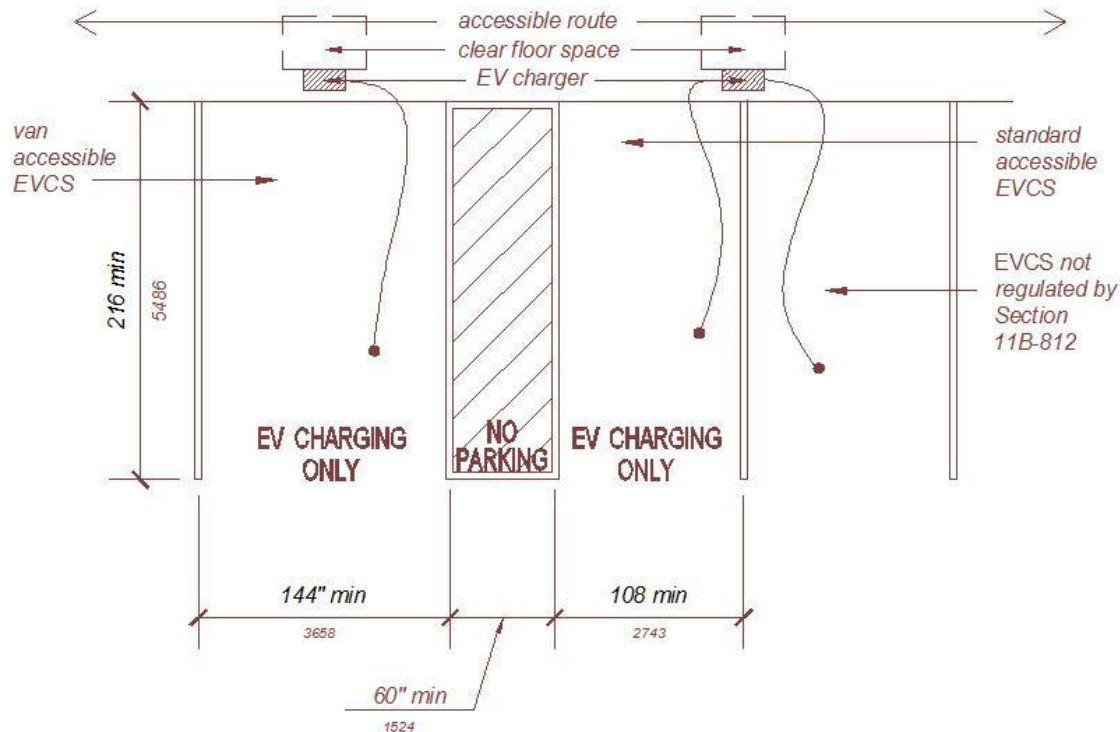


FIGURE 11B-812.9
SURFACE MARKING

11B-812.10 Electric vehicle chargers.

11B-812.10.1 General. EV chargers shall comply with Section 11B-812.10.

11B-812.10.2 Operable parts. Operable parts and charging cord storage shall comply with Section 11B-309.

11B-812.10.3 Point-of-sale devices. Where provided, point-of-sale devices shall comply with Section 11B-707.9.

11B-812.10.4 Location. EV chargers shall be adjacent to, and within the projected width of the vehicle space being served.

Exceptions:

1. EV chargers serving more than one EVCS shall be adjacent to, and within the combined projected width of the vehicle spaces being served.
2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches (914 mm) maximum from the head end of the space.
3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches (1219 mm) maximum from the head end or foot end of the vehicle space or access aisle being served. (end underline)

REASON: DSA-AC is proposing to add explicit accessibility regulations for electric vehicle charging stations (EVCS). These regulations will provide clear and consistent requirements for the rapidly increasing number of EVCS being installed in California. Proposed regulations include scoping and technical requirements. These requirements will be applicable to EVCS installed in or at public buildings, public accommodations, commercial buildings and public housing.

The use of EVCS generally falls into one of two types: 1) parking style where an EV is left in a parking space to charge – usually for a period time exceeding 30 minutes – and the driver may stay with the EV or leave the EV to conduct other activities, and 2) drive-up style where the EV driver pulls up next to an EV charger, charges for a short period of time during which the driver often stays with the vehicle, then proceeds forward to depart; drive-up EVCS are used in a similar fashion to gasoline fueling stations and may allow for queuing of other EVs. This proposal contains distinct requirements for these two types of facilities. In compliance with proposed Table 11B-228.3.2.1, a specified number of parking style EVCS are required to provide compliant operable parts, clear floor space, ground surfaces, vertical clearance, vehicle spaces, access aisles, identification signs and surface marking. Drive-up EVCS are required to provide similar features.

ITEM 11B.xx.01 – RELATED CODE AMENDMENT

CHAPTER 2 – DEFINITIONS

SECTION 202 – Definitions

(begin underline) **DRIVE-UP ELECTRIC VEHICLE CHARGING STATION.** *An electric vehicle charging station in which use is limited to 30 minutes maximum and is provided at a location where the electric vehicle approaches in the forward direction, stops in the vehicle space, charges the vehicle, and proceeds forward to depart the vehicle space. The arrangement of a drive-up electric vehicle charger and its associated vehicle space is similar to a gasoline filling station island.*

ELECTRIC VEHICLE (EV). *An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For the purpose of this code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.*

ELECTRIC VEHICLE (EV) CHARGER. *Off-board charging equipment used to charge an electric vehicle.*

ELECTRIC VEHICLE CHARGING SPACE (EV Space). *A space intended for charging electric vehicles.*

ELECTRIC VEHICLE CHARGING STATION (EVCS). *One or more electric vehicle charging spaces served by electric vehicle charger(s) or other charging equipment allowing charging.*

ELECTRIC VEHICLE (EV) CONNECTOR. *A device that, when electrically coupled (conductive or inductive) to an electric vehicle inlet, establishes an electrical connection to the electric vehicle for the purpose of power transfer and information exchange. This device is part of the electric vehicle coupler.* (end underline)

REASON: DSA-AC is proposing to add new definitions of the terms “drive-up electric vehicle charger”, “electric vehicle (EV)”, electric vehicle (EV) charger”, “electric vehicle charging space

(EV space), “electric vehicle charging station (EVCS) and “electric vehicle (EV) connector” in coordination with the related code change to add explicit accessibility regulations for electric vehicle charging stations. The adoption of these new definitions will provide clarity and consistency for code users.

ITEM 11B.xx.02 – RELATED CODE AMENDMENT

CHAPTER 11B

DIVISION 1: APPLICATION AND ADMINISTRATION

11B-106.5 Defined terms. ...

(begin underline) **DRIVE-UP ELECTRIC VEHICLE CHARGING STATION**

ELECTRIC VEHICLE (EV)

ELECTRIC VEHICLE (EV) CHARGER

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE)

ELECTRIC VEHICLE CHARGING STATION (EVCS)

ELECTRIC VEHICLE (EV) CONNECTOR (end underline)

REASON: DSA-AC is proposing to add new definitions of the terms “drive-up electric vehicle charger”, “electric vehicle (EV)”, “electric vehicle (EV) charger”, “electric vehicle charging space (EV space)”, “electric vehicle charging station (EVCS) and “electric vehicle (EV) connector”.

ITEM 11B.xx.03 – RELATED CODE AMENDMENT

CHAPTER 11B

DIVISION 2: SCOPING

11B-202 Existing buildings and facilities

11B-202.4 Path of travel requirements in alterations, additions and structural repairs. *When alterations or additions are made to existing buildings or facilities, an accessible path of travel to the specific area of alteration or addition shall be provided. The primary accessible path of travel shall include:*

1. *A primary entrance to the building or facility,*
2. *Toilet and bathing facilities serving the area,*
3. *Drinking fountains serving the area,*
4. *Public telephones serving the area, and*
5. *Signs.*

...

Exceptions:

(begin underline)

11. *Alterations solely for the purpose of installing electric vehicle charging stations (EVCS) at sites where vehicle fueling, recharging, parking or storage is a primary function shall comply with Section 11B-202.4 to the maximum extent feasible without*

exceeding 20 percent of the cost of the work directly associated with the installation of EVCS.

Alterations solely for the purpose of installing EVCS at sites where vehicle fueling, recharging, parking or storage is not a primary function shall not be required to comply with Section 11B-202.4. (end underline)

REASON: DSA-AC is proposing to add a new exception to this section to clarify path of travel requirements for electric vehicle charging stations projects at existing buildings and facilities. The new exception addresses alterations at sites where vehicle fueling, recharging, parking or storage is a primary function and alterations at sites where vehicle fueling, recharging, parking or storage is not a primary function. The adoption of this new exception will provide clarity and consistency for code users.

ITEM 11B.xx.04 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 2: SCOPING

11B-208 Parking spaces

11B-208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with *Section 11B-208.* (begin underline) For the purposes of this section, electric vehicle charging stations are not parking spaces; see Section 11B-228. (end underline)

Exception: ...

REASON: DSA-AC is proposing to amend this section in coordination with the related code change to add explicit accessibility regulations for electric vehicle charging stations (EVCS). The amendment to this section will clarify that EVCS are not considered parking spaces for the purposes of Section 11B-208. The adoption of this amendment will provide consistency for code users.

ITEM 11B.xx.05 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 2: SCOPING

11B-228 Depositories, vending machines, change machines, mail boxes, and fuel dispensers, (begin underline) and electric vehicle charging stations (end underline)

11B-228.1 General. Where provided, at least one of each type of depository, vending machine, change machine, and fuel dispenser shall comply with *Section 11B-309.* (begin underline) Electric vehicle charging stations shall comply with Section 11B-228.3. (end underline)

Exception: Drive-up only depositories shall not be required to comply with *Section 11B-309.*

11B-228.2 Mail boxes. Where mail boxes are provided...

(begin underline) **11B-228.3 Electric vehicle charging stations**

11B-228.3.1 General. *Where electric vehicle charging stations (EVCS) are provided, EVCS shall be provided in accordance with Section 11B-228.3.*

11B-228.3.1.1 Existing Facilities. *Where new EVCS are added to a facility with existing EVCS, the requirements of Section 11B-812 shall apply only to the new EVCS installed. Alterations to existing EVCS shall comply with Section 11B-228.3.*

11B-228.3.1.2 Operable parts. *Where EV chargers are provided, operable parts on all EV chargers shall comply with Section 11B-309.4.*

11B-228.3.2 Minimum number. *EVCS complying with Section 11B-812 shall be provided in accordance with Section 11B-228.3.2. Where EVCS are provided in more than one parking facility on a site, the number of EVCS complying with Section 11B-228.3.2 provided on the site shall be calculated according to the number required for each parking facility. Where an EV charger can simultaneously charge more than one vehicle, the number of EV chargers provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.*

Exceptions:

- 1. EVCS not available to the general public and intended for use by a designated vehicle or driver shall not be required to comply with Section 11B-228.3.2. Examples include, but are not limited to, EVCS serving public or private fleet vehicles and EVCS assigned to an employee.*
- 2. In public housing facilities, EVCS intended for use by an EV owner or operator at their residence shall not be required to comply with Section 11B-228.3.2.*

11B-228.3.2.1 Public use or common use EVCS. *Where EVCS are provided for public use or common use, EVCS complying with Section 11B-812 shall be provided in accordance with Table 11B-228.3.2.1. Where new EVCS are installed in facilities with existing EVCS, the “Total Number of EVCS at a Facility” in Table 11B-228.3.2.1 shall include both existing and new EVCS.*

Exception: *All drive-up EVCS shall comply with Section 11B-812.*

TABLE 11B-228.3.2.1
ELECTRIC VEHICLE CHARGING STATIONS FOR
PUBLIC USE AND COMMON USE

<u>Total Number of EVCS at a Facility¹</u>	<u>Minimum Number (by type) of EVCS Required to Comply with Section 11B-812¹</u>		
	<u>Van Accessible</u>	<u>Standard Accessible</u>	<u>Ambulatory</u>
<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>
<u>2 to 25</u>	<u>1</u>	<u>1</u>	<u>0</u>
<u>26 to 50</u>	<u>1</u>	<u>1</u>	<u>1</u>
<u>51 to 75</u>	<u>1</u>	<u>2</u>	<u>2</u>
<u>76 to 100</u>	<u>1</u>	<u>3</u>	<u>3</u>
<u>101 and over</u>	<u>1, plus 1 for each 300, or fraction thereof, over 100</u>	<u>3, plus 1 for each 60, or fraction thereof, over 100</u>	<u>3, plus 1 for each 50, or fraction thereof, over 100</u>

Notes:

1. Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged. (end underline)

REASON: DSA-AC is proposing to add explicit accessibility regulations for electric vehicle charging stations (EVCS). These regulations will provide clear and consistent requirements for the rapidly increasing number of EVCS being installed in California. Proposed regulations include scoping and technical requirements; the proposed scoping provisions will be located in new Section 11B-228.3. These requirements will be applicable to EVCS installed in or at public buildings, public accommodations, commercial buildings and public housing.

ITEM 11B.xx.06 – RELATED CODE AMENDMENT

CHAPTER 11B DIVISION 3: BUILDING BLOCKS

11B-309 Operable parts

11B-309.1 General. Operable parts shall comply with Section 11B-309.

11B-309.2 Clear floor space. A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308.

11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

Exception: Gas pump nozzles (begin underline) and electric vehicle connectors (end underline) shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

REASON: DSA-AC is proposing to amend the exception to this section in coordination with the related code change to add explicit accessibility regulations for electric vehicle charging stations. The amendment to this exception will exempt electric vehicle connectors from the 5 pounds maximum activating force requirement for operable parts, consistent with the exception for gas pump nozzles. The adoption of this amendment will provide consistency for code users.

Notation

Authority: Government Code Section 4450.

References: Government Code Sections 4450 through 4461, and 12955.1(c) and Health and Safety Code Sections 18949.1, 19952 through 19959.