# **ACCESSIBLITY - ROUTES**

## Americans with Disabilities Act 1991

Chapters 11A and 11B are based on ADA 1991 but also differ from it. For this reason it is crucial to review the state requirements against the federal requirements and always apply the strictest requirement. ADA was updated in 2010 but the changes have not yet been updated by California, however, as law, the new federal statute also applies.

## Accessibility Intent

The intent of accessibility is to provide *equal facilitation* to persons with disabilities.

# Accessible Route

Intent of accessible route is to allow persons with disabilities to enter a building, get into and out of spaces where desired functions occur, and then exit the building by providing a continuous and unobstructed route. It also includes the site accessibility and it starts at the point where the disabled person enters the site from public way, parks their vehicle or is dropped of by public transportation or private vehicle, to all the required entries and throughout the publicly accessible areas of the building.

### SECTION 1101B SCOPE

See Chapter 1, Section 1.9.1.5.

1. Buildings or facilities or portions of buildings or facilities shall be accessible to persons with disabilities as required by this chapter.

2. Departures from particular technical and scoping requirements of this chapter by the use of other designs and technologies are permitted where the alternative designs and technologies used will provide equivalent or greater access to and usability of the building or facility.

3. In determining equivalent facilitation, consideration shall be given to means that provide for the maximum independence of persons with disabilities while presenting the least risk of harm, injury or other hazard to such persons or others.

### 1101B.3 Maintenance of accessible features.

1. A public accommodation shall maintain in operable working condition those features of facilities and equipment that are required to be accessible to and usable by persons with disabilities.

2. This section does not prohibit isolated or temporary interruptions in service or access due to maintenance or repairs.

### SECTION 1102B DEFINITIONS

For the purpose of the chapter, certain terms are defined as follows:

**ACCESS AISLE** is an accessible pedestrian space adjacent to or between parking spaces that provides clearances in conformance with this chapter.

**ACCESSIBILITY** is the combination of various elements in a building, facility, site, or area, or portion thereof which allows access, circulation and the full use of the building and facilities by persons with disabilities in conformance with this chapter.

**ACCESSIBLE** is approachable and usable by persons with disabilities in compliance with this code.

**ACCESSIBLE ELEMENT** is an element specified by the regulations adopted by the Division of the State Architect-Access Compliance.

ACCESSIBLE MEANS OF EGRESS. See Section 1002.1.

ACCESSIBLE ROUTE OF TRAVEL is a continuous unobstructed path connecting all accessible elements and spaces in an accessible building or facility that can be negotiated by a person with a disability using a wheelchair and that is also safe for and usable by persons with other disabilities, and that is consistent with the definition of "Path of travel" in this section. Interior accessible routes may include corridors, floors, ramps, elevators, lifts and clear floor space at fixtures. Exterior accessible routes may include parking access aisles, curb ramps, crosswalks at vehicular ways, walks, sidewalks, ramps, and lifts. An accessible route does not include stairs, steps or escalators.

**ACCESSIBLE SPACE** is a space that complies with the regulations adopted by the Division of the State Architect-Access Compliance.

**ADAPTABILITY** is the capability of spaces or facilities to be readily modified and made accessible.

**ADMINISTRATIVE AUTHORITY** is a governmental agency that adopts or enforces regulations and guidelines for the design, construction, or alteration of buildings and facilities.

**AISLE** is a circulation path between objects such as seats, tables, merchandise, equipment, displays, shelves, desks, etc., that provides clearances in conformance with this chapter.

**AISLE, EMPLOYEE AREAS** (as required for architectural accessibility) is a space that serves as a passageway, which is created by architectural components such as walls, fixed cabinetry or fixtures and not moveable components such as furniture.

AREA OF REFUGE. See Section 1002.1.

**ASSEMBLY AREA** is a room or space accommodating a group of individuals for recreational, educational, political, social or amusement purposes, or for the consumption of food and drink.

**AUTOMATIC DOOR** is a door equipped with a power operated mechanism and controls that open and close the door automatically upon receipt of a momentary actuating signal. The switch that begins the automatic cycle may be a photoelectric device, floor mat or manual switch.

**CIRCULATION PATH** is an exterior or interior way of passage from one place to another for pedestrians, including, but not limited to, walks, hallways, courtyards, stairways and stair landings.

CLEAR means unobstructed.

**CLEAR FLOOR SPACE** is the minimum unobstructed floor or ground space required to accommodate a single, stationary wheelchair and occupant.

**CLOSED-CIRCUIT TELEPHONE** is a telephone with dedicated line(s) such as a house phone, courtesy phone or phone that must be used to gain entrance to a facility.

COMMON USE AREAS are those interior and exterior rooms, spaces or elements that

are made available for the use of a restricted group of people (for example, occupants of a homeless shelter, the occupants of an office building or the guests of such occupants).

**COMPLY WITH** means to meet one or more specifications of these regulations.

**CROSS SLOPE** is the slope that is perpendicular to the direction of travel (as differentiated from running slope).

**CURB CUT** is an interruption of a curb at a pedestrian way, which separates surfaces that are substantially at the same elevation.

**CURB RAMP** is a sloping pedestrian way, intended for pedestrian traffic, which provides access between a walk or sidewalk and a surface located above or below an adjacent curb face, as differentiated from a ramp.

**DETECTABLE WARNING** is a standardized surface or feature built into or applied to walking surfaces or other elements to warn visually impaired persons of hazards in the path of travel. Only approved DSA-AC detectable warning products and directional surfaces shall be installed as provided in the California Code of Regulations (CCR). Title 24, Part 1, Articles 2, 3 and 4. Refer to CCR Title 24, Part 12, <u>Chapter 12-11A</u> and B for building and facility access specifications for product approval for detectable warning products and directional surfaces.

Detectable warning products and directional surfaces installed after January 1, 2001, shall be evaluated by an independent entity, selected by the Department of General Services, Division of the State Architect-Access Compliance, for all occupancies, including transportation and other outdoor environments, except that when products and surfaces are for use in residential housing, evaluation shall be in consultation with the Department of Housing and Community Development. See Government Code Section 4460.

**DWELLING UNIT** is a single unit of residence for a family of one or more persons. Examples of dwelling units covered by this chapter include condominiums, an apartment unit within an apartment building and other types of dwellings in which sleeping accommodations are provided but toileting or cooking facilities are shared by occupants of more than one room or portion of the dwelling. Examples of the latter include dormitory rooms and sleeping accommodations in shelters intended for occupancy as residences for homeless persons.

**ELEMENT** is an architectural or mechanical component of a building, facility, space or site; for example, a telephone, curb ramp, door, drinking fountain, seating or water closet.

ELEVATOR, PASSENGER is an elevator used primarily to carry passengers.

ENTRANCE means any access point to a building or portion of a building or facility

used for the purpose of entering. An entrance includes the approach walk, the vertical access leading to the entrance platform, the entrance platform itself, vestibules if provided, the entry door(s) or gate(s), and the hardware of the entry door(s) or gate(s).

**EQUIVALENT FACILITATION** is an alternate means of complying with the literal requirements of these standards and specifications that provides access in terms of the purpose of these standards and specifications. See Section 1.9.1.5.

EXIT. See Section 1002.1.

**FACILITY** (or FACILITIES) is a building, structure, room, site, complex or any portion thereof that is built, altered, improved or developed to serve a particular purpose. Facilities shall include all or any portion of buildings, structures, site developments, complexes, equipment, roads, walks, sidewalks, passageways, parking lots or other real or personal property located on a site.

**GRAB BAR** is a bar for the purpose of being grasped by the hand for support.

GUARD (or GUARDRAIL). See Section 1002.1.

HANDRAIL. See Section 1002.1.

HEALTH CARE PROVIDER. See "Professional office of a health care provider."

*IF*, *IF*...*THEN* denotes a specification that applies only when the conditions described are present.

**INDEPENDENT ENTITY.** See <u>Section 202</u>. Detectable warning products and directional surfaces installed after January 1, 2001, shall be evaluated by an independent entity, selected by the Department of General Services, Division of the State Architect-Access Compliance, for all occupancies, including transportation and other outdoor environments, except that when products and surfaces are for use in residential housing evaluation shall be in consultation with the Department of Housing and Community Development. See Government Code Section 4460.

**INTERNATIONAL SYMBOL OF ACCESSIBILITY** is that symbol adopted by Rehabilitation International's 11th World Congress for the purpose of indicating that buildings and facilities are accessible to persons with disabilities. See Figure 11B-6.

**KICK PLATE** is an abrasion-resistant plate affixed to the bottom portion of a door to prevent a trap condition and protect its surface.

**LEVELAREA** is a specified surface that does not have a slope in any direction exceeding one unit vertical in 50 units horizontal (2-percent slope).

LIFT, PLATFORM (WHEELCHAIR). See "Platform (Wheelchair) Lift."

**MARKED CROSSING** is a crosswalk or other identified path intended for pedestrian use in crossing a vehicular way.

MAY denotes an option or alternative.

NEWLY CONSTRUCTED. See Chapter 11A, Section 1107A.14-N.

*NOSE, NOSING* is that portion of a stair tread or landing at the top of a stairway flight projecting beyond the face of the riser immediately below.

**OPEN RISER** is the space between two adjacent stair treads not closed by a riser.

**OPERABLE PART** is a part of a piece of equipment or appliance used to insert or withdraw objects, or to activate, deactivate or adjust the equipment or appliance (for example, coin slot, pushbutton, handle).

**PASSAGE DOOR** is a door other than an exit door through which persons may traverse.

**PATH OF TRAVEL** is a passage that may consist of walks and sidewalks, curb ramps and pedestrian ramps, lobbies and corridors, elevators, other improved areas or a necessary combination thereof, that provides free and unobstructed access to and egress from a particular area or location for pedestrians and/or wheelchair users. A "path of travel" includes a continuous, unobstructed way of pedestrian passage by means of which a particular area may be approached, entered and exited, and which connects a particular area with an exterior approach (including sidewalks, streets, and parking areas), an entrance to the facility, and other parts of the facility. In existing buildings, when alterations, structural repairs or additions are made, the term "path of travel" also includes the sanitary facilities, telephones, drinking fountains and signs serving the altered area.

**PEDESTRIAN** is an individual who moves in walking areas with or without the use of walking assistive devices such as crutches, leg braces, wheelchairs, white cane, service animal, etc.

**PEDESTRIAN GRADE SEPARATION** is a structure erected over or under an obstacle such as a freeway, roadway, street, railroad, stream, etc., and intended primarily for pedestrian use.

**PEDESTRIAN RAMP** is a walking surface which has a running slope greater than 1:20 intended for pedestrian traffic and as differentiated from a curb ramp.

**PEDESTRIAN WAY** is a route by which a pedestrian may pass.

PLATFORM. See Section 410.2.

**PLATFORM (WHEELCHAIR) LIFT** is a hoisting and lowering mechanism equipped with a car or platform or support that serves two landings of a building or structure and is designed to carry a passenger or passengers and (or) luggage or other material a vertical distance as may be allowed.

**PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER** is a location where a person or entity, regulated by the State to provide professional services related to the physical or mental health of an individual, makes such services available to the public. The facility housing the professional office of a health care provider only includes floor levels housing at least one health care provider, or any floor level designed or intended for use by at least one health care provider.

**PUBLIC USE AREA** means interior or exterior rooms or spaces of a building that are made available to the general public and does not include common use areas. Public use areas may be provided at a building that is privately or publicly owned.

PUBLIC WAY. See Section 1002.1.

**RAMP** is a walking surface which has a running slope greater than one unit vertical in 20 units horizontal (5-percent slope) intended for pedestrian traffic and as differentiated from a curb ramp.

**RISER** is the upright member between two adjacent stair treads.

**RUNNING SLOPE** is the slope that is parallel to the direction of travel (as differentiated from cross slope).

SHALL denotes a mandatory specification or requirement.

SHOPPING CENTER (or SHOPPING MALL) is one or more sales or rental establishments or stores. A shopping center may include a series of buildings on a common site, connected by a common pedestrian access route on, above or below the ground floor, that is either under common ownership or common control or developed either as one project or as a series of related projects. For the purposes of this section, "shopping center" or "shopping mall" includes a covered mall building.

SHOULD denotes an advisory specification or recommendation.

SIDEWALK. See Section 202.

**SLEEPING ACCOMMODATIONS** are rooms in which people may sleep; for example, dormitory and hotel or motel guest rooms or suites.

**SPECIFIED PUBLIC TRANSPORTATION** is transportation by bus, rail or any other conveyance (other than by aircraft) that provides the general public with general or special service (including charter service) on a regular and continuing basis.

STAGE. See Section 410.2.

STAIR. See Section 1002.1.

STAIRWAY. See Section 1002.1.

**STORY** means that portion of a building included between the upper surface of any floor and the upper surface of the floor next above, except that the topmost story shall be that portion of a building included between the upper surface of the topmost floor and the ceiling or roof above. If the finished floor level directly above a basement or unused under-floor space is more than 6 feet (1829 mm) above grade for more than 50 percent of the total perimeter or is more than 12 feet (3658 mm) above grade at any point, the basement or unused under-floor space shall be considered as a story. There may be more than one floor level within a story as in the case of a mezzanine or mezzanines.

**STORY, FIRST** means the lowest story in a building which qualifies as a story and which provides the basic services or functions for which the building is used. A floor level in a building having only one floor level shall be classified as a first story, if the floor level is not more than 4 feet (1219 mm) below grade, for more than 50 percent of the total perimeter, or more than 8 feet (2438 mm) below grade at any point.

**STRUCTURAL FRAME** is considered to be the columns and the girders, beams, trusses and spandrels having direct connections to the columns and all other members which are essential to the stability of the building as a whole.

**TEXT TELEPHONE** is machinery or equipment that employs interactive text-based communications through the transmission of coded signals across the standard telephone network. Text telephones can include, for example, devices known as TTYs (teletypewriters) or computers.

**TRANSIENT LODGING** is a building, facility or portion thereof, excluding inpatient medical care facilities, that contains one or more dwelling units or sleeping accommodations. Transient lodging may include, but is not limited to, resorts, group homes, hotels, motels and dormitories.

**TRANSIT BOARDING PLATFORM** is a horizontal, generally level surface, whether raised above, recessed below or level with a transit rail, from which persons embark/disembark a fixed rail vehicle.

**TREAD** is the horizontal member of a step.

**VEHICULAR WAY** is a route intended for vehicular traffic, such as a street, driveway or parking lot.

WALK is a surfaced pedestrian way not located contiguous to a street used, by the

public. (As differentiated from the definition of "Sidewalk" in <u>Section 202</u>.)

**WORK STATION** is an area defined by equipment and/or work surfaces intended for use by employees only, and generally for one or a small number of employees at a time. Examples include ticket booths; the employee side of grocery store checkstands; the bartender area behind a bar; the employee side of snack bars, sales counters and public counters; guardhouses; toll booths; kiosk vending stands; lifeguard stations; maintenance equipment closets; counter and equipment areas in restaurant kitchens; file rooms; storage areas; etc.

### SECTION 1103B BUILDING ACCESSIBILITY

**1103B.1 Scope.** Accessibility to buildings or portions of buildings shall be provided for all occupancy classifications except as modified or enhanced by this chapter. Occupancy requirements in this chapter may modify general requirements, but never to the exclusion of them. When a building or facility contains more than one use, the occupancy specific accessibility provisions for each portion of the building or facility shall apply.

An accessible route of travel complying with Section 1114B.1.2 shall connect all elements and spaces within a building or facility. Multistory buildings and facilities must provide access to each level, including mezzanines, by ramp or passenger elevator complying with Section 1116B. If more than one elevator is provided, each passenger elevator shall comply with Section 1116B.

### Exceptions:

1. Floors or portions of floors not customarily occupied, including, but not limited to, nonoccupiable or employee spaces accessed only by ladders, catwalks, crawl spaces, very narrow passageways or freight (nonpassenger) elevators, and frequented only by service personnel for repair or maintenance purposes, including, but not limited to, elevator pits and elevator penthouses, piping and equipment catwalks, and machinery rooms.

2. The following types of privately funded multistory buildings do not require a ramp or elevator above and below the first floor:

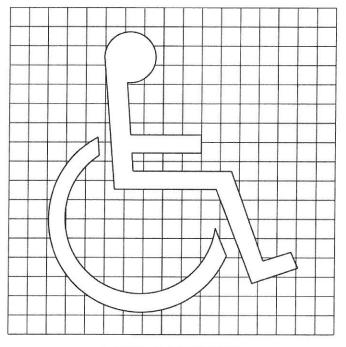
2.1. Multistoried office buildings (other than the professional office of a health care provider) and passenger vehicle service stations less than three stories high or less than 3,000 square feet  $(279 \text{ m}^2)$  per story.

2.2. Any other privately funded multistoried building that is not a shopping center, shopping mall or the professional office of a health care provider, or a terminal, depot or other station used for specified public transportation, or an airport passenger terminal and that is less than three stories high or less than 3,000 square feet  $(279 \text{ m}^2)$  per story if a reasonable portion of all facilities and accommodations normally sought and used by the public in such a building are accessible to and usable by persons with disabilities.

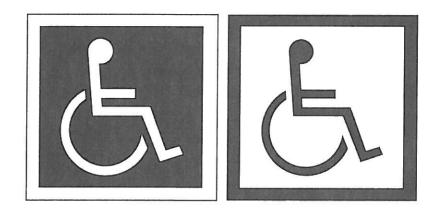
**1103B.2 Distance to elevators.** In new construction of buildings where elevators are required by Section 1103B.1, and which exceed 10,000 square feet (929  $m^2$ ) on any floor, an accessible means of vertical access via ramp, elevator or lift shall be provided within

200 feet (60 960 mm) of travel of each stair and each escalator. In existing buildings that exceed 10,000 square feet (929  $m^2$ ) on any floor and in which elevators are required by Sections 1134B.2 and 1103B.1, whenever a newly constructed means of vertical access is provided via stairs or an escalator, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet (60 960 mm) of travel of each new stair or escalator.

**1103B.2 Distance to elevators.** In new construction of buildings where elevators are required by Section 1103B.1, and which exceed 10,000 square feet (929  $m^2$ ) on any floor, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet (60 960 mm) of travel of each stair and each escalator. In existing buildings that exceed 10,000 square feet (929  $m^2$ ) on any floor and in which elevators are required by Sections 1134B.2 and 1103B.1, whenever a newly constructed means of vertical access is provided via stairs or an escalator, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet (60 960 mm) of travel of each new stair or escalator.



(a) SYMBOL PROPORTIONS



( b ) DISPLAY CONDITIONS

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-6---INTERNATIONAL ACCESSIBILITY SYMBOL

### SECTION 1127B EXTERIOR ROUTES OF TRAVEL

**1127B.1 General.** Site development and grading shall be designed to provide access to all entrances and exterior ground floor exits, and access to normal paths of travel, and where necessary to provide access, shall incorporate pedestrian ramps, curb ramps, etc. Access shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks. When more than one building or facility is located on a site, accessible routes of travel complying with Section 1114B.1.2 shall be provided between buildings and accessible site facilities, accessible elements, and accessible spaces that are on the same site. The accessible route of travel shall be the most practical direct route between accessible building entrances, accessible site facilities and the accessible entrance to the site. If access is provided for pedestrians from a pedestrian tunnel or elevated walkway, entrances to the building from each tunnel or walkway must be accessible.

### **Exceptions:**

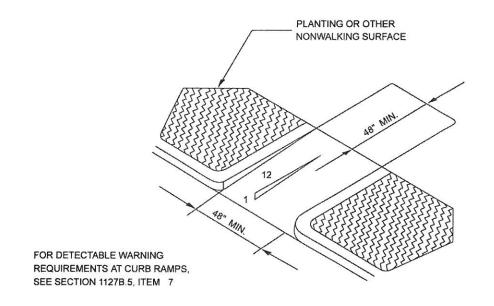
1. Where the enforcing agency determines that compliance with these regulations would create an unreasonable hardship because of topography, natural barriers, etc., an exception may be granted when equivalent facilitation is provided through the use of other methods and materials.

2. In existing buildings, this section shall not apply in those conditions where, due to legal or physical constraints, the site of the project would not allow compliance with these regulations or equivalent facilitation without creating an unreasonable hardship. See Section 1.9.1.5.

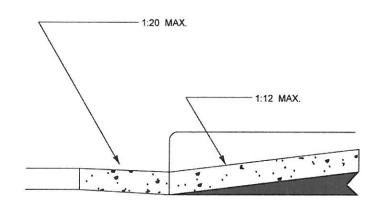
**1127B.3 Signs.** At every primary public entrance and at every major junction where the accessible route of travel diverges from the regular circulation path along or leading to an accessible route of travel, entrance or facility, there shall be a sign displaying the International Symbol of Accessibility. Signs shall indicate the direction to accessible building entrances and facilities and shall comply with the requirements found in Sections 1117B.5.1, Item 2, and 1117B.5.8.1.

### 1127B.5 Curb ramps.

1. **General.** Curb ramps shall be constructed at each corner of street intersections and where a pedestrian way crosses a curb. Built-up curb ramps shall be located so that they do not project into vehicular traffic lanes. The preferred and recommended location for curb ramps is in the center of the crosswalk of each street corner. Where it is necessary to locate a curb ramp in the center of the curb return and the street surfaces are marked to identify pedestrian crosswalks, the lower end of the curb ramp shall terminate within such crosswalk areas. See Figure 11B-20C, Case E and Figure 11B-22.



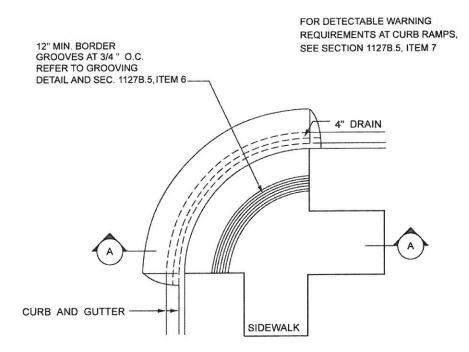
(a)

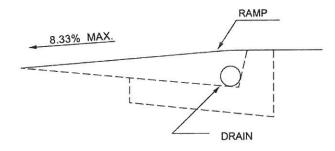




THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-21—RETURNED CURB STYLE

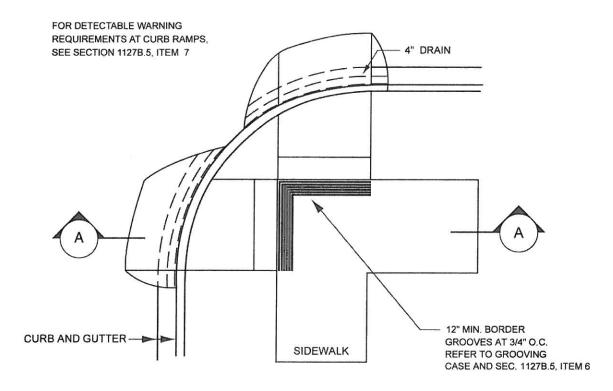




#### SECTION A-A

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

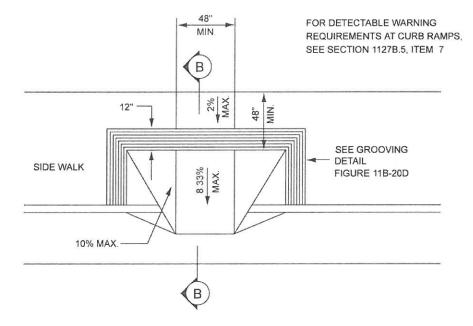
#### FIGURE 11B-19A-CURB DETAILS

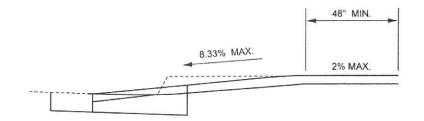


SEE FIGURE 11B-19A

THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-19B-CURB DETAIL

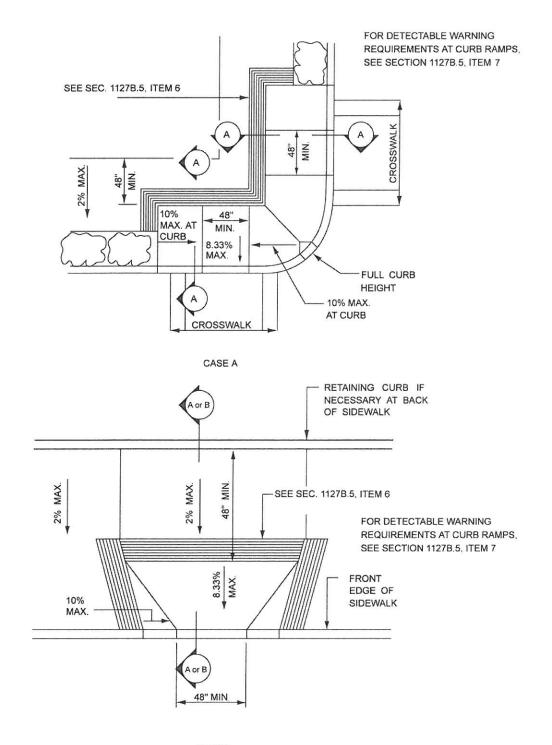




SECTION B-B

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

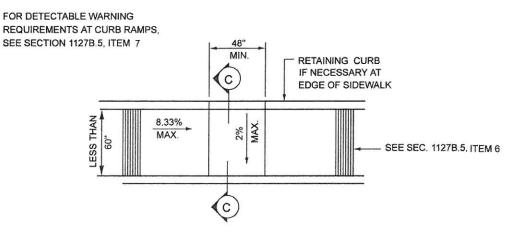
FIGURE 11B-19C-CURB DETAIL



CASE B

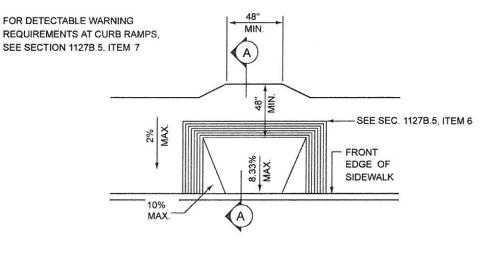
THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-20A-CURB DETAIL-CASES A AND B



CASE C

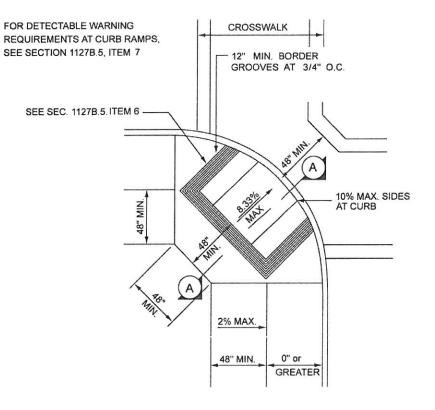




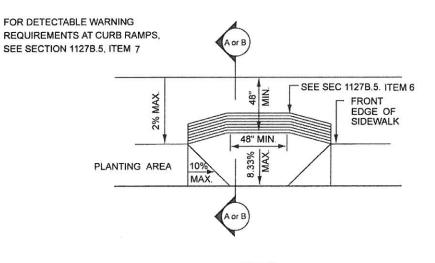
CASE D

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-20B-CURB DETAIL-CASES C AND D



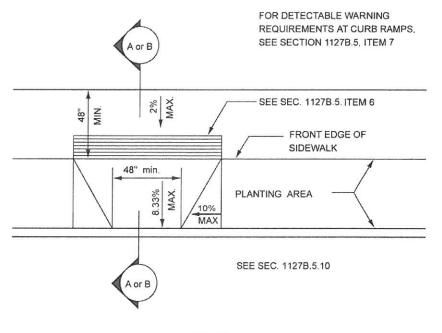
CASE E



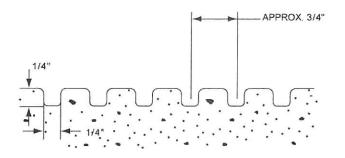
CASE F

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-20C—CURB DETAIL—CASES E AND F





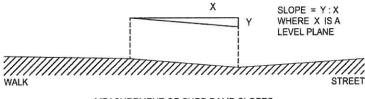


GROOVING DETAIL

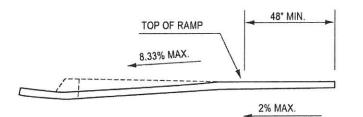
CASE H

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

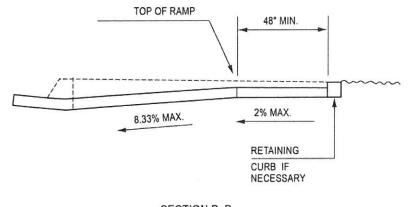
FIGURE 11B-20D-CURB DETAIL-CASES G AND H



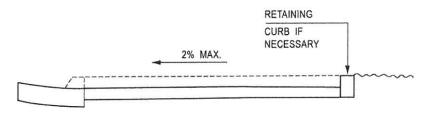
MEASUREMENT OF CURB RAMP SLOPES



SECTION A-A



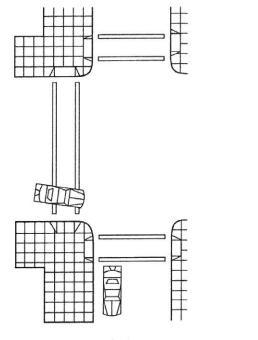
SECTION B-B DEPRESS ENTIRE SIDEWALK AS REQUIRED



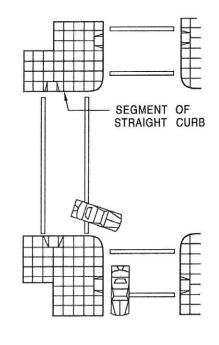
SECTION C-C

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

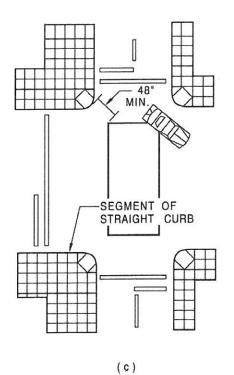
FIGURE 11B-20E-CURB SECTIONS

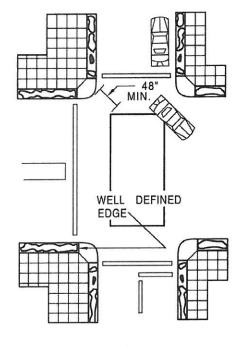


(a)



(b)





(d)

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

#### FIGURE 11B-22-CURB RAMPS AT MARKED CROSSING

# SECTION 1128B PEDESTRIAN GRADE SEPARATIONS (OVERPASSES AND UNDERPASSES)

Pedestrian ramps on pedestrian grade separations shall comply with the requirements of Section 1133B.5 for ramps.

Cross slopes of walking surfaces shall be the minimum possible and shall not exceed one unit vertical in 50 units horizontal (2-percent slope). The slope of any appreciably warped walking surface shall not exceed one unit vertical in 12 units horizontal (8.33-percent slope) in any direction. Where pedestrian grade separations cross streets or other vehicular traffic ways, and where a street level crossing can reasonably and safely be used by persons with physical disabilities, there shall be provided conforming curb ramps and a usable pathway.

### SECTION 1129B ACCESSIBLE PARKING REQUIRED

**1129B.1 General.** Each lot or parking structure where parking is provided for the public as clients, guests or employees, shall provide accessible parking as required by this section. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel (complying with Section 1114B.1.2) from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible parking shall be located on the shortest accessible route of travel to an accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located closest to the accessible entrances. Table 11B-6 establishes the number of accessible parking spaces required.

**1129B.2 Medical care outpatient facilities.** At facilities providing medical care and other services for persons with mobility impairments, parking spaces complying with this section hall be provided in accordance with Table 11B-6 except as follows:

1. **Outpatient units and facilities.** Ten percent of the total number of parking spaces provided shall serve each such outpatient unit or facility.

2. Units and facilities that specialize in treatment or services for persons with **mobility impairments.** Twenty percent of the total number of parking spaces provided shall serve each such unit or facility.

### TABLE 11B-6 SPACES REQUIRED

TOTAL NUMBER OF PARKIN SPACES IN LOT OR GARAGE	2
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	*
<i>1,001 and over</i>	**

Establishes the number of accessible parking spaces required.

\* Two percent of total.

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

**1129B.4 Identification of parking spaces for off-street parking facilities.** Each parking space reserved for persons with disabilities shall be identified by a reflectorized sign permanently posted immediately adjacent to and visible from each stall or space, consisting of the International Symbol of Accessibility in white on a dark blue background. The sign shall not be smaller than 70 square inches (4516 mm<sup>2</sup>) in area and, when in a path of travel, shall be posted at a minimum height of 80 inches (2032 mm) from the bottom of the sign to the parking space finished grade. Signs may also be centered on the wall at the interior end of the parking space. An additional sign or additional language below the symbol of accessibility shall state "Minimum Fine \$250."

Van accessible spaces complying with Section 1129B.3, Item 2 shall have an additional sign or additional language stating "Van Accessible" below the symbol of accessibility. Signs identifying accessible parking spaces shall be located so they cannot be obscured by a vehicle parked in the space.

An additional sign shall also be posted in a conspicuous place at each entrance to offstreet parking facilities, or immediately adjacent to and visible from each accessible stall or space. The sign shall not be less than 17 inches by 22 inches (432 mm by 559 mm) in size with 1 inch (25 mm) high minimum lettering which clearly and conspicuously states the following:

"Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will

be towed away at the owner's expense. Towed vehicles may be reclaimed at\_\_\_\_\_\_ or by telephoning\_\_\_\_\_\_."

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

### SECTION 1130B PARKING STRUCTURES

**1130B.1** All entrances to and vertical clearances within parking structures shall comply with Section 1129B.3, Item 5 where required for accessibility to accessible parking spaces.

**1130B.2** When direct access is provided for pedestrians from a parking garage to a building, each direct entrance from the garage to the building must be accessible.

### SECTION 1131B PASSENGER DROP-OFF AND LOADING ZONES

**1131B.1 Location.** When provided, passenger drop-off and loading zones shall be located on an accessible route of travel (complying with Section 1114B.1.2) and shall comply with 1131B.2.

### 1131B.2 Passenger loading zones.

1. **General.** Where provided, one passenger drop-off and loading zone shall provide an access aisle at least 60 inches (1524 mm) wide and 20 feet (6096 mm) long adjacent and parallel to the vehicle pull-up space. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding one unit vertical in 50 units horizontal (2-percent slope) in all directions. If there are curbs between the access aisle and the vehicle pull-up space, a curb ramp shall be provided. Each passenger drop-off and loading zone designed for persons with disabilities shall be identified by a reflectorized sign, complying with Section 1117B.5.1, Items 2 and 3, permanently posted immediately adjacent to and visible from the passenger drop-off or loading zone stating "Passenger Loading Zone Only" and including the International Symbol of Accessibility, in white on a dark blue background.

2. Vertical clearance. Provide minimum vertical clearance of 114 inches (2896 mm) at accessible passenger loading zones and along at least one vehicle access route to such areas from site entrances and exits.

**1131B.3 Valet parking.** Valet parking facilities shall provide a passenger loading zone complying with Section 1131B.2 above and shall be located on an accessible route of travel (complying with Section 1114B.1.2) to the entrance of the facility. The parking space requirements of Sections 1129B through 1130B apply to facilities with valet parking.

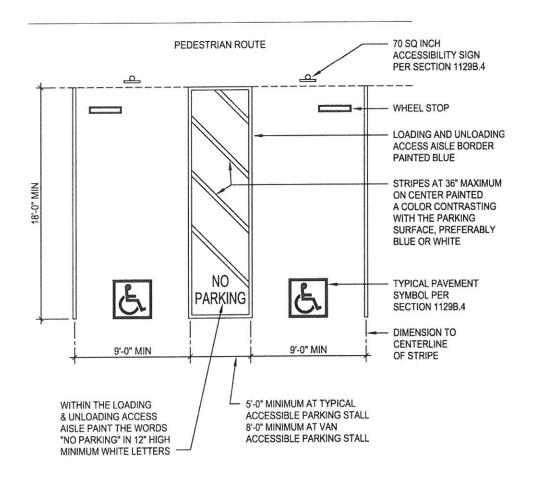


FIGURE 11B-18A-DOUBLE PARKING STALLS

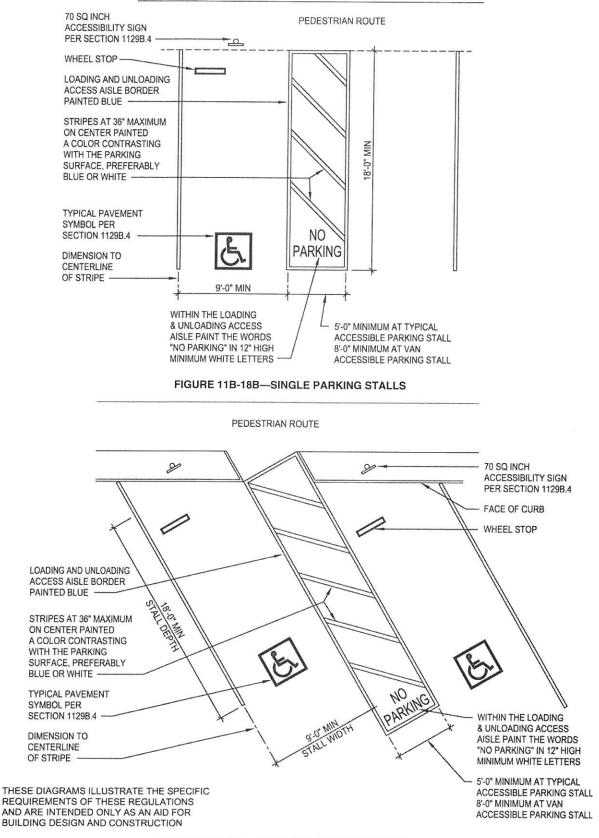
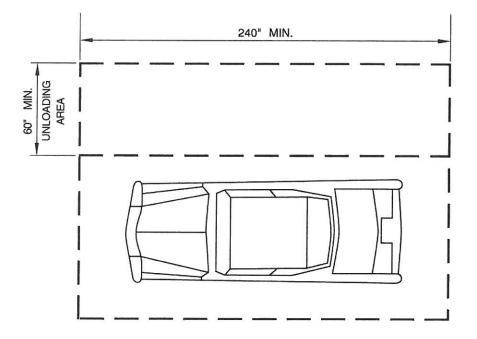


FIGURE 11B-18C—DIAGONAL PARKING STALLS



THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-24—ACCESS AISLE AT PASSENGER LOADING ZONES

# Division III-ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL

This division includes additional requirements which supersede less restrictive requirements in <u>Chapter 10</u> where access is required.

### 1133B.1.1 Entrances.

### **1133B.1.1.1 Entrances and exterior ground floor exit doors.**

**1133B.1.1.1** All entrances and exterior ground-floor exit doors to buildings and facilities shall be made accessible to persons with disabilities. Such entrances shall be connected by an accessible route (complying with Section 1114B.1.2) to public transportation stops, to accessible parking and passenger loading zones and to public streets or sidewalks, if available. Entrances shall be connected by an accessible route to all accessible spaces or elements within the building or facility. Doorways shall have a minimum clear opening of 32 inches (813 mm) with the door open 90 degrees, measured between the face of the door and the opposite stop (see Figure 11B-5B). Openings more than 24 inches (610 mm) in depth shall comply with Section 1118B.1.

### **Exceptions:**

1. Exterior ground-floor exits serving smoke-proof enclosures, stairwells and exit doors servicing stairs only need not be made accessible.

2. Exits in excess of those required by <u>Chapter 10</u>, and which are more than 24 inches (610 mm) above grade are not required to be accessible. Such doors shall have signs warning that they are not accessible. Warning signs shall comply with Section 1117B.5.1, Item 2.

**1133B.2.2 Width and height.** Every required exit doorway shall be of a size as to permit the installation of a door not less than 3 feet (914 mm) in width and not less than 6 feet 8 inches (2032 mm) in height.

When installed in exit doorways, exit doors shall be capable of opening at least 90 degrees and shall be so mounted that the clear width of the exitway is not less than 32 inches (813 mm) measured between the face of the door and the opposite stop (see Figure 11B-5B). In computing the exit width the net dimension of the exitway shall be used.

**Exception:** Doors not requiring full user passage, such as shallow closets, may have the clear opening reduced to 20 inches (510 mm) minimum.

**1133B.2.3.1 Pairs 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.

**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 Section 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.

**1133B.2.3.3 Revolving doors.** Revolving doors shall not be used as a required entrance for persons with disabilities.

### 1133B.2.3.4 Turnstiles, rails and pedestrian controls.

Where turnstiles and crowd control barriers are utilized in a facility for the purpose of providing fully controlled access, such as where an admission price is charged, a door or gate that is accessible to persons with disabilities shall be provided adjacent to each turnstile exit or entrance. This alternate passageway shall be maintained in an unlocked condition during business hours and the door or gate shall not activate a publicly audible alarm system. The door or gate may be latched where all gates are restricted and controlled by an attendant and a sign is posted stating, "All gates are restricted and controlled by an attendant." The accessible door or gate shall provide the same use pattern. Where posts, rails or other pedestrian controls are utilized to create crowd control aisles or lanes, a minimum of one lane shall be accessible and shall provide a minimum aisle width no less than indicated in Figures 11B-5E(a) and (b) with 32 inches (813 mm) of clear opening.

**1133B.2.4 Floor level at doors.** Regardless of the occupant load, there shall be a floor or landing on each side of a door.

**1133B.2.4.1 Thresholds.** The floor or landing shall not be more than 1/2 inch (12.7 mm) lower than the threshold of the doorway. Change in level between 1/4 inch (6 mm) and 1/2 inch (12.7 mm) shall be beveled with a slope no greater than one unit vertical in 2 units horizontal (50-percent slope). Change in level greater than 1/2 inch (12.7 mm) shall be accomplished by means of a ramp. See Section 1133B.5.1.

**1133B.2.5 Door opening force.** The maximum force required to push or pull open a door shall comply with this section. Push or pull force for a hinged door shall be measured perpendicular to the door face at the door opening hardware or 30 inches (762 mm) from the hinged side, whichever is farther from the hinge. Push or pull force for a sliding or folding door shall be measured parallel to the door at the door pull or latch. Compensating devices or automatic door operators complying with Section 1133B.2.3.2 may be used to meet the maximum force limits.

1. Required fire doors shall have the minimum opening force allowable by the appropriate administrative authority, not to exceed 15 lbf (66.7N).

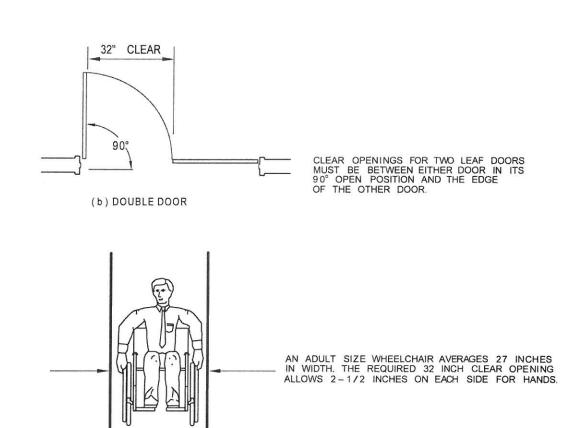
2. Other than required fire doors, interior doors shall have a maximum opening force of 5 lbf (22.2 N).

3. Other than required fire doors, exterior doors shall have a maximum opening force of 5 lb (22.2 N).

**1133B.2.5.2** Hand-activated door opening hardware, handles, pulls, latches, locks and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate. Hardware shall be centered between 30 inches (762 mm) and 44 inches (1118 mm) above the floor. Latching and locking doors that are hand-activated and which are in a path of travel shall be operable by lever-type hardware, panic bars, push-pull activating bars, U-shaped handles or other hardware designed to provide passage. Locked exit doors shall operate as above in egress direction.

**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 at 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.

CLEAR OPENINGS MUST BE BETWEEN THE DOOR IN ITS 90° OPENING POSITION AND THE FACE OF THE STOP



(c) PASSAGE CLEARANCE

32"

9 0°

STOP\_\_\_\_\_(a) SINGLE DOOR

CLEAR

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

FIGURE 11B-5B-DOOR WIDTH

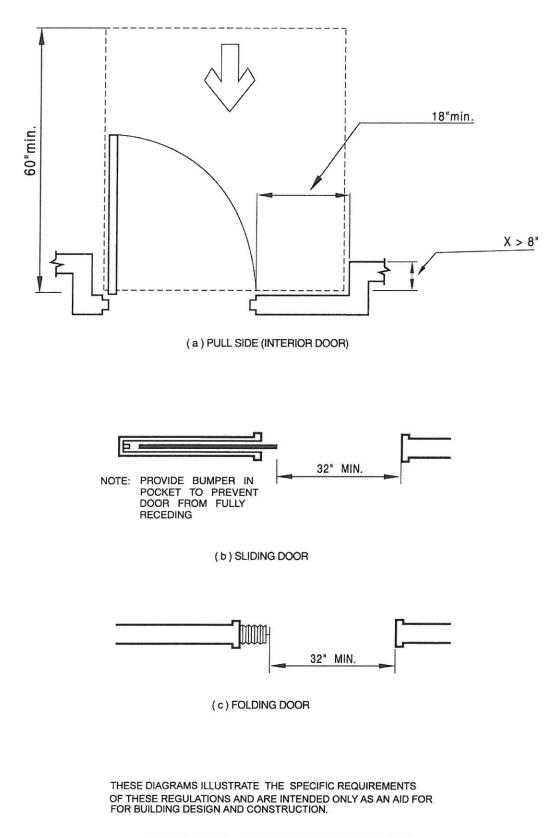


FIGURE 11B-33—CLEAR DOOR WIDTH AND DEPTH

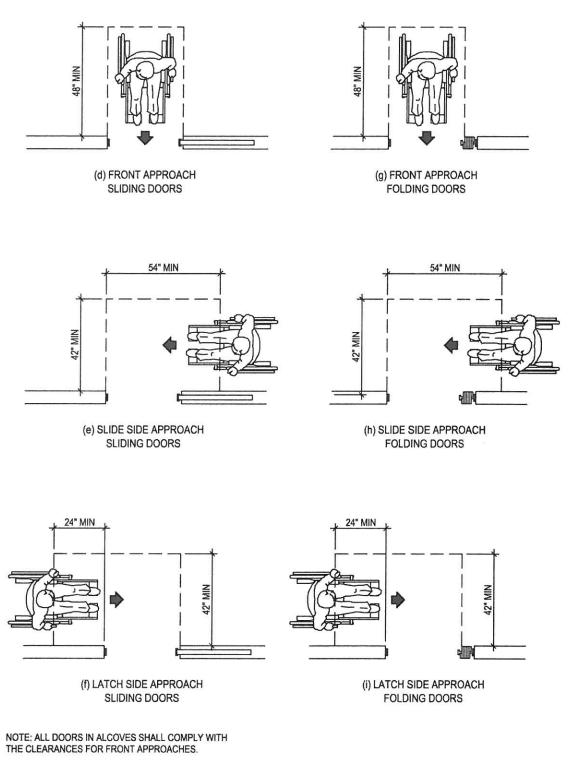
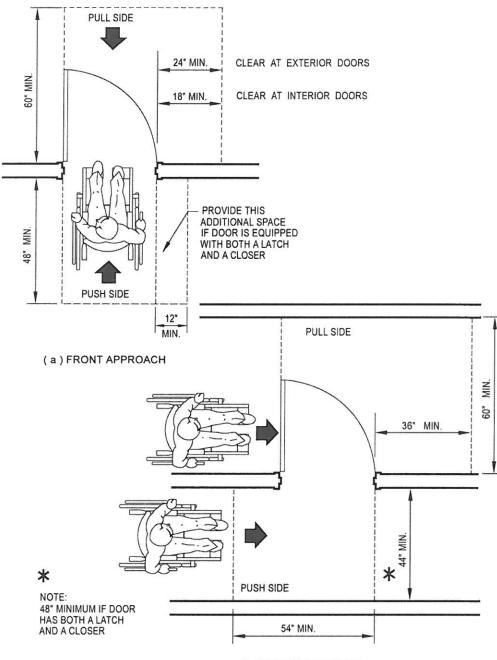


FIGURE 11B-26C—LEVEL MANEUVERING CLEARANCE AT DOORS—continued



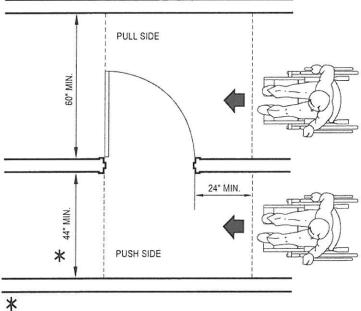
( b ) HINGE APPROACH

\* NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

#### FIGURE 11B-26A—LEVEL MANEUVERING CLEARANCE AT DOORS

(continued)



NOTE: 48" MINIMUM IF DOOR HAS A CLOSER

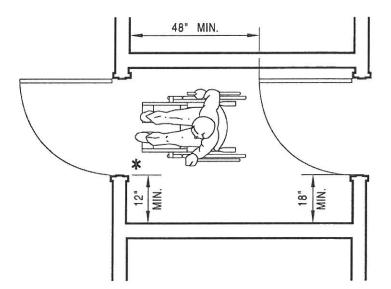
(c) LATCH APPROACH

\* NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

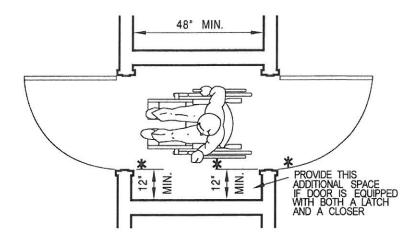
THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-26B—LEVEL MANEUVERING CLEARANCE AT DOORS—continued

(continued)



(a) DOOR IN SERIES

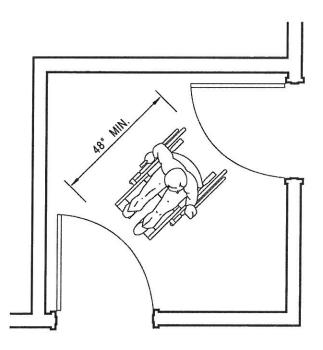


### ( b ) BOTH DOORS OPEN OUT

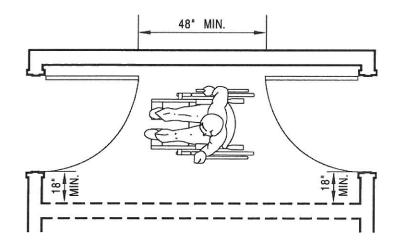
### (SERVING OTHER THAN A REQUIRED EXIT STAIRWAY)

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-30-VESTIBULE



(a) DOORS AT ADJACENT WALLS



(b) DOORS AT OPPOSITE WALLS

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-31—VESTIBULE (SERVING OTHER THAN REQUIRED EXIT STAIRWAY)

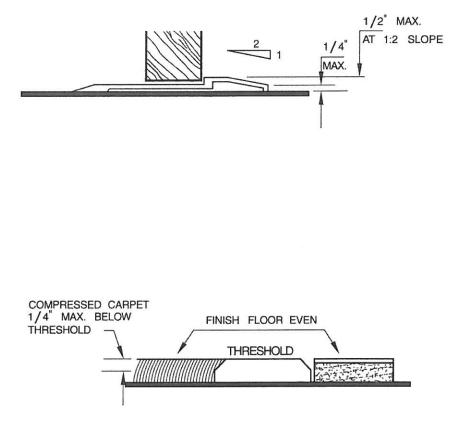


FIGURE 11B-32—THRESHOLDS

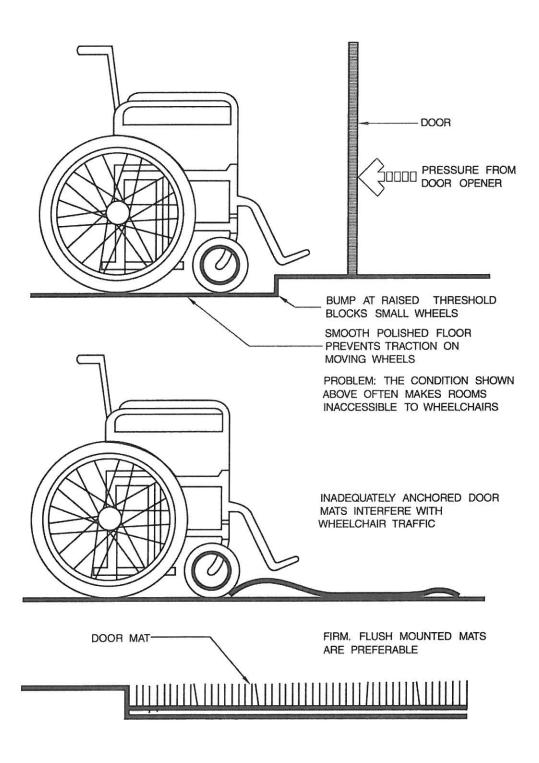


FIGURE 11B-25—OBSTRUCTIONS

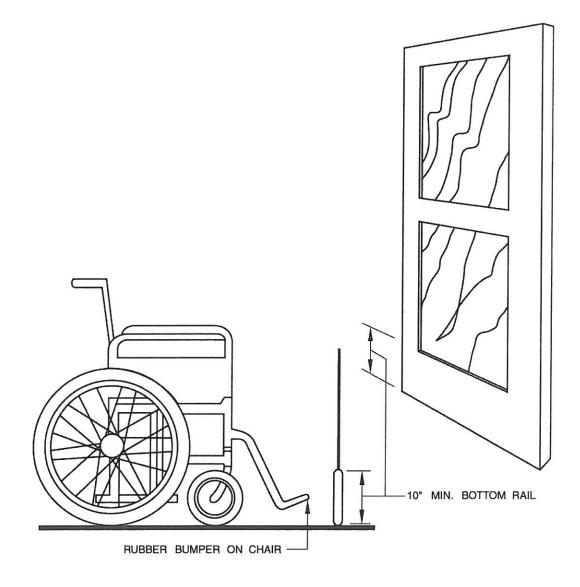
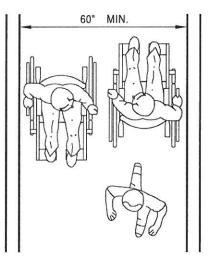


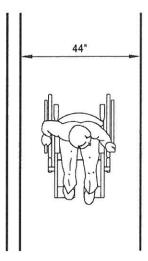
FIGURE 11B-29—DOOR CONSTRUCTION

### 1133.B.3 Corridors, hallways and exterior exit balconies

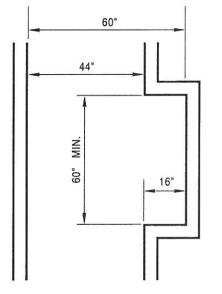
**1133B.3.2 Corridors and hallways over 200 feet (60960 mm).** Corridors and hallways that are located on an accessible route and exceed 200 feet (60 960 mm) in length shall have a minimum clear width of 60 inches (1524 mm). If an accessible route has less than 60 inches (1524 mm) clear width, then passing spaces at least 60 inches by 60 inches (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.

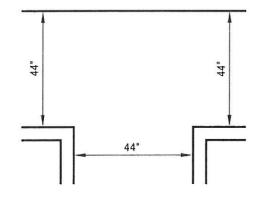


(b) MINIMUM WIDTH FOR CORRIDORS OVER 200'



(a) MINIMUM CORRIDOR WIDTH

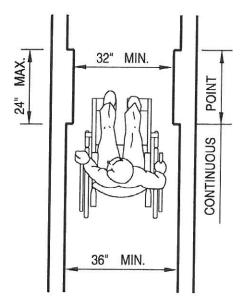


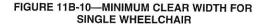


(c) PASSING ALCOVES FOR CORRIDORS OVER 200' IN LIEU OF 60" MIN. WIDTH

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-34-CORRIDOR OVER 200 FEET (60 960 mm)





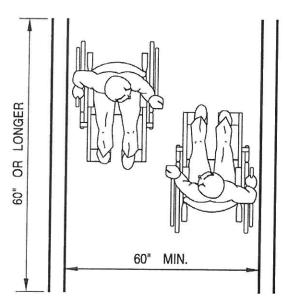
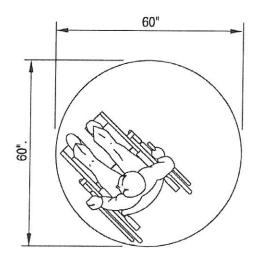
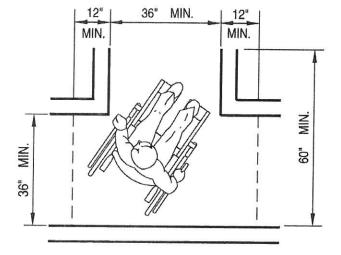


FIGURE 11B-11—MINIMUM CLEAR WIDTH FOR TWO WHEELCHAIRS



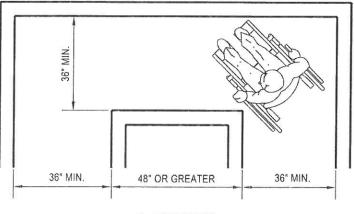


(a) 60 INCHES DIAMETER SPACE

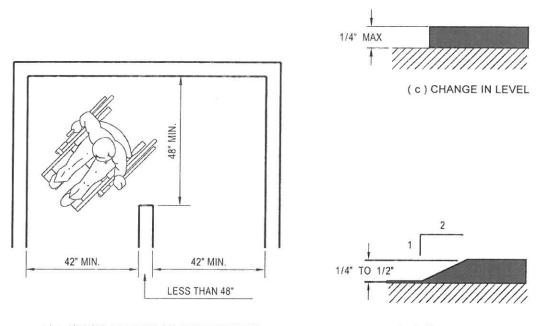
(b) T-SHAPED SPACE FOR 180° TURNS

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

### FIGURE 11B-12-WHEELCHAIR TURNING SPACE



(a)90°TURN

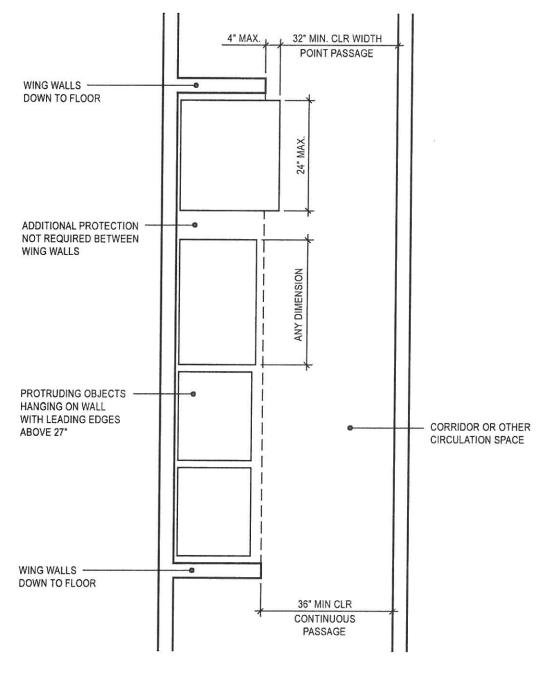


(b) TURNS AROUND AN OBSTRUCTION

(d) CHANGE IN LEVEL

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

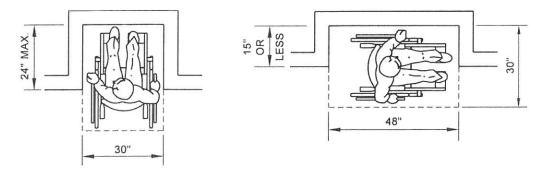
### FIGURE 11B-5E—WIDTH OF ACCESSIBLE ROUTE



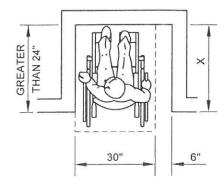
PLAN

EXAMPLE OF PROTECTION AROUND WALL-MOUNTED OBJECTS AND MEASUREMENTS OF CLEAR WIDTHS

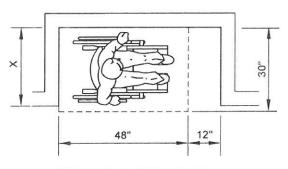
#### FIGURE 11B-7D—PROTECTION AROUND WALL-MOUNTED OBJECTS



(a) CLEAR FLOOR SPACE IN ALCOVES

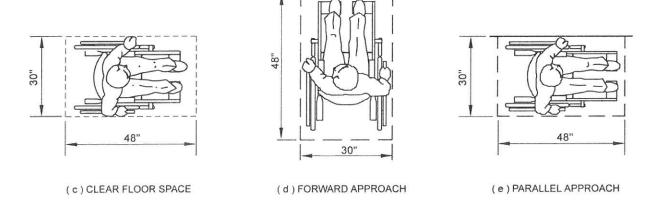


NOTE: IF X > 24 INCHES, THEN AN ADDITIONAL MANEUVERING CLEARANCE OF 6 INCHES SHALL BE PROVIDED AS SHOWN.



NOTE IF X > 15 INCHES, THEN AN ADDITIONAL MANEUVERING CLEARANCE OF 12 INCHES SHALL BE PROVIDED AS SHOWN

( b ) ADDITIONAL MANEUVERING CLEARANCE FOR ALCOVES



THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

#### FIGURE 11B-5A-MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIRS

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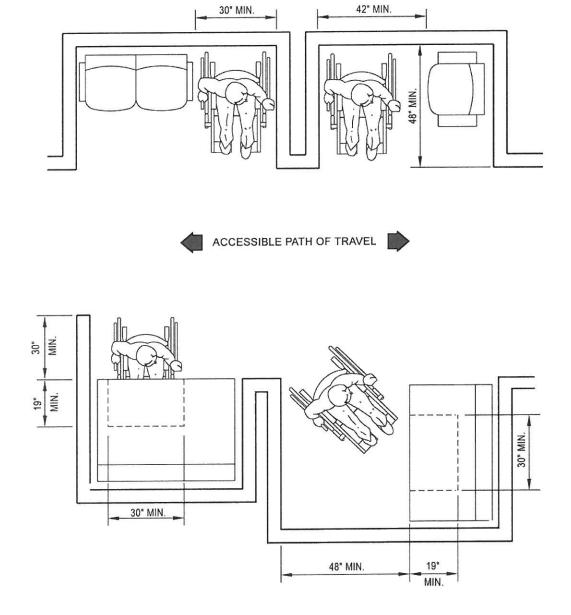
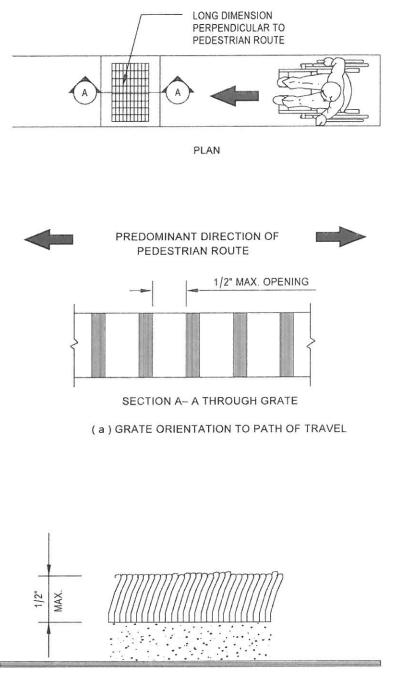


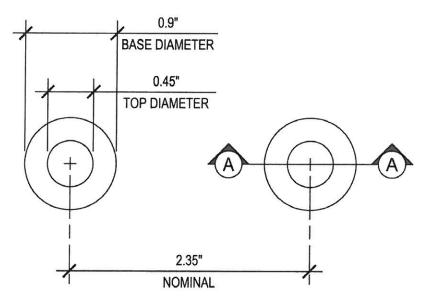
FIGURE 11B-13-MINIMUM CLEARANCES FOR SEATING AND TABLE



( b ) CARPET PILE THICKNESS

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-7E



(a) TRUNCATED DOME SPACING

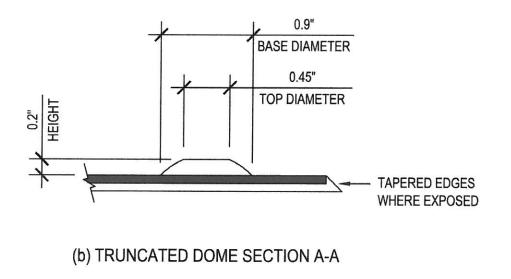


FIGURE 11B-23A-TRUNCATED DOMES

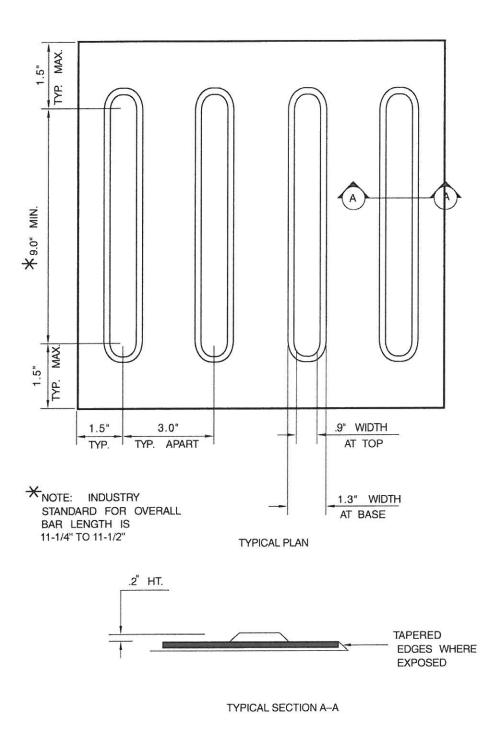


FIGURE 11B-23B-DIRECTIONAL BARS

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

# 1133B.4.3 Tactile floor identification signs in stairways.

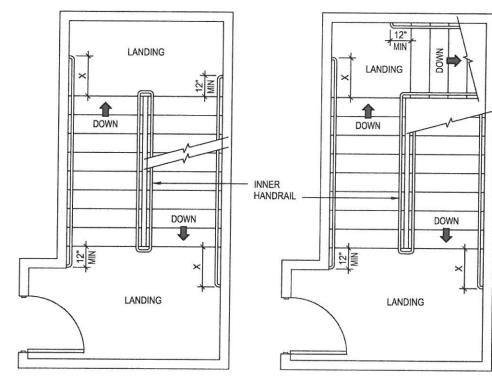
Tactile floor identification signs that comply with Section 1117B.5, Item 1, shall be located at each floor level landing in all enclosed stairways in buildings two or more stories in height to identify the floor level. At exit discharge level, the sign shall include a raised five-pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters.

**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.

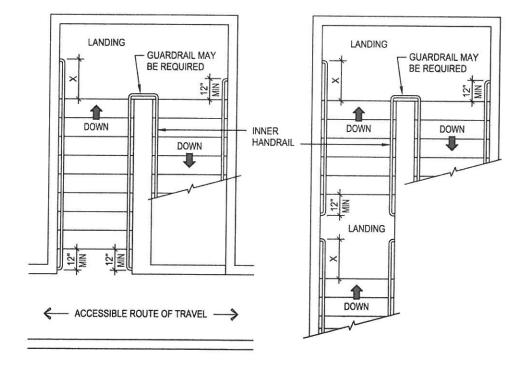
The stripe shall be a minimum of 2 inches (50.8 mm) wide to a maximum of 4 inches (101.6 mm) wide placed parallel to, and not more than 1 inch (25.4 mm) from, the nose of the step or upper approach. The stripe shall extend the full width of the step or upper approach and shall be of material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable.

**1133B.4.5 Stair treads, risers and nosing.** Stair treads shall be no less than 11 inches (279 mm) deep, measured from riser to riser. Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. On any given flight of stairs, all steps shall have uniform riser height and uniform tread widths.

**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.

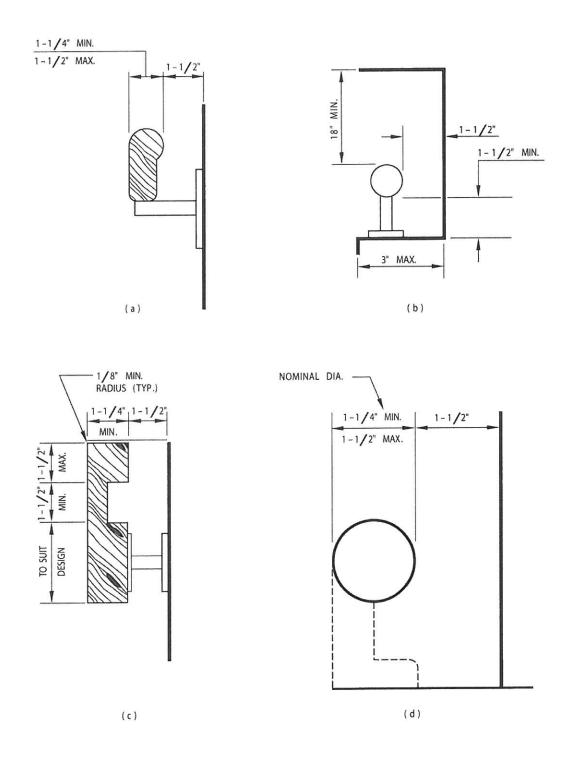


NOTE: INNER HANDRAIL AT LANDINGS OF STAIRS THAT DOUBLE BACK OR IMMEDIATELY TURN SHALL BE CONTINUOUS AND SHALL NOT EXTEND INTO LANDING OR ACCESSIBLE ROUTE OF TRAVEL X = EXTENSION OF HANDRAIL SHALL BE EQUAL TO THE TREAD WIDTH PLUS 12 INCHES MINIMUM

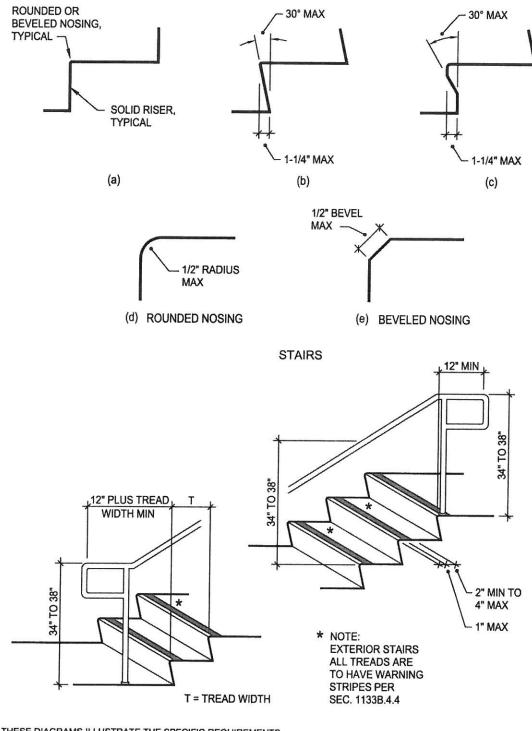


THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

FIGURE 11B-37—STAIR HANDRAILS



#### FIGURE 11B-36—STAIR HANDRAILS





# 1133B.5 Ramps.

**1133B.5.1 General.** Ramps shall conform to the provisions of this section. Any accessible route of travel shall be considered a ramp if its slope is greater than 1 unit vertical in 20 units horizontal (5-percent slope).

**1133B.5.2 Width.** Ramps shall have a minimum clear width of 48 inches (1219 mm), unless required to be wider by some other provision of this code. Ramps serving entrances to buildings where the ramp is the only exit discharge path and serves an occupant load of 300 or more shall have a minimum clear width of 60 inches (1524 mm). Ramps serving Group R occupancies may be 36 inches (914 mm) clear width when the occupant load is 50 or less.

**1133B.5.3 Slope.** The least possible slope shall be used for any ramp. The maximum slope of a ramp shall be one unit vertical in 12 units horizontal (8.33-percent slope). The maximum rise for any run shall be 30 inches (762 mm).

1133B.5.3.1 The cross slope of ramp surfaces shall be no greater than one unit vertical in 50 units horizontal (2-percent slope).

**1133B.5.4 Landings.** Level ramp landings shall be installed as follows:

**1133B.5.4.1 Location of landings.** Level ramp landings shall be provided at the top and bottom of each ramp. Intermediate landings shall be provided at intervals not exceeding 30 inches (762 mm) of vertical rise and at each change of direction. Landings are not considered in determining the maximum horizontal distance of each ramp. Landings shall be level as specified in the definition of "Level area" in Section 1102B.

**1133B.5.8 Outdoor ramps.** Outdoor ramps and their approaches shall be designed so that water will not accumulate on walking surfaces.

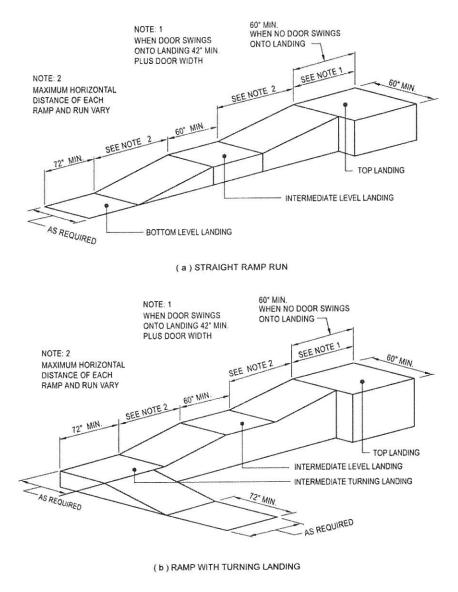
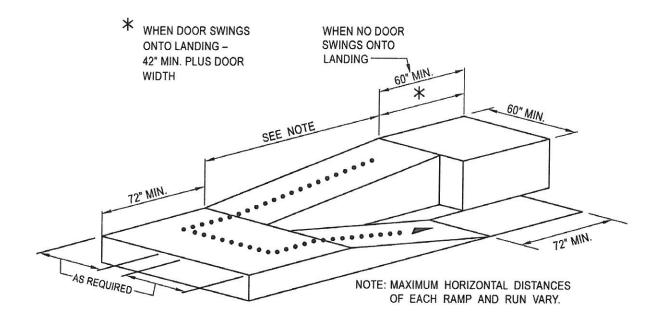
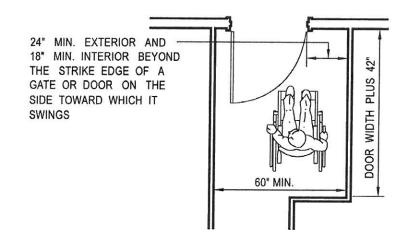


FIGURE 11B-38-RAMP DIMENSIONS



### (a) RAMP WITH INTERMEDIATE SWITCH BACK LANDING



( b ) RAMP LANDING AT DOORWAY

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-39—RAMP LANDING AND DOORWAY

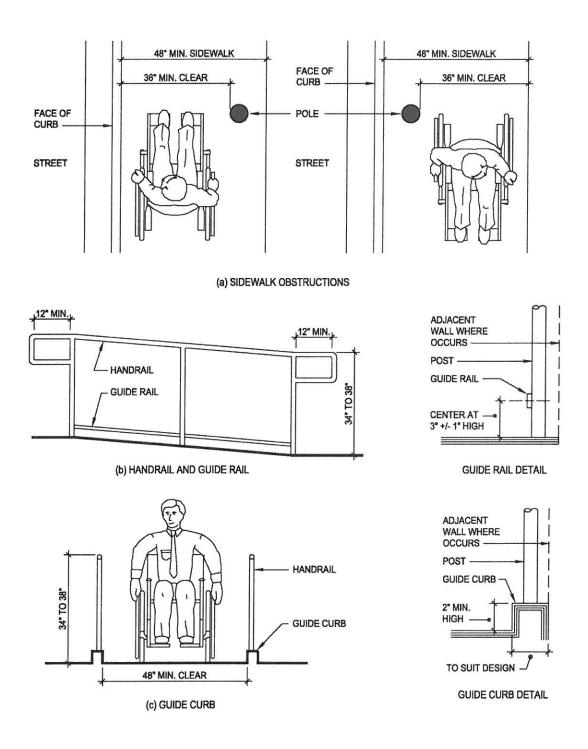


FIGURE 11B-27—RAMPS AND SIDEWALKS

# 1133B.6 Aisles.

**1133B.6.1 General.** Every portion of every building in which are installed seats, tables, merchandise, equipment or similar materials shall be provided with aisles leading to an exit.

**1133B.6.2 Width.** Every aisle shall not be less than 36 inches (914 mm) wide if serving only one side, and not less than 44 inches (1118 mm) wide if serving both sides. In addition, aisles shall comply with Figure 11B5E(a) and (b) for circulation around obstructions.

# 1133B.7 Walks and sidewalks.

**1133B.7.1 Continuous surface.** Walks and sidewalks subject to these regulations shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding 1/2 inch (12.7 mm) (see Section 1133B.7.4), and shall be a minimum of 48 inches (1219 mm) in width. If a walk or sidewalk has less than 60 inch (1525 mm) clear width, then passing spaces at least 60 inches by 60 inches (1525 mm by 1525 mm) shall be located at reasonable intervals not to exceed 200 feet (61 m). A T-intersection is an acceptable passing place. Surfaces shall be slip resistant as follows:

1133B.7.1.1 Slopes less than 6 percent. Surfaces with a slope of less than 6-percent slope shall be at least as slip resistant as that described as a medium salted finish.1133B.7.1.2 Slopes 6 percent or greater. Surfaces with a slope of 6-percent slope shall be slip-resistant.

**1133B.7.1.3 Surface cross slopes.** Surface cross slopes shall not exceed one unit vertical in 50 units horizontal (2-percent slope).

**1133B.7.2 Gratings.** Walks, sidewalks and pedestrian ways shall be free of gratings whenever possible. For gratings located in the surface of any of these areas, grid openings in gratings shall be limited to  $\frac{1}{2}$  inch (12.7 mm) in the direction of traffic flow.

**1133B.7.3 Five-percent gradient.** When the slope in the direction of travel of any walk exceeds one unit vertical in 20 units horizontal (5-percent gradient), it shall comply with the provisions of Section 1133B.5.

**1133B.7.5 Level areas.** All walks with continuous gradients shall have level areas at least 5 feet (1524 mm) in length at intervals of 400 feet (121 920 mm) maximum.

# 1133B.8 Hazards.

**1133B.8.1 Warning curbs.** Abrupt changes in level, except between a walk or sidewalk and an adjacent street or driveway, exceeding 4 inches (102 mm) in a vertical dimension, such as at planters or fountains located in or adjacent to walks, sidewalks or other pedestrian ways, shall be identified by curbs projecting at least 6 inches (152 mm) in

height above the walk or sidewalk surface to warn the blind of a potential drop off.

When a guard or handrail is provided, no curb is required when a guide rail is provided centered 3 inches (76 mm) plus or minus 1 inch (25 mm) above the surface of the walk or sidewalk, the walk is 5 percent or less gradient or no adjacent hazard exists.

**1133B.8.5 Detectable warnings at hazardous vehicular areas.** If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning which is 36 inches (914 mm) wide, complying with Section 1121B.3.1, Item 8(a).

Only approved DSA-AC detectable warning products and directional surfaces shall be installed as provided in the California Code of Regulations (CCR), Title 24, Part 1, Articles 2, 3 and 4. Refer to CCR Title 24, Part 12, <u>Chapters 12-11A</u> and B, for building and facility access specifications for product approval for detectable warning products and directional surfaces.

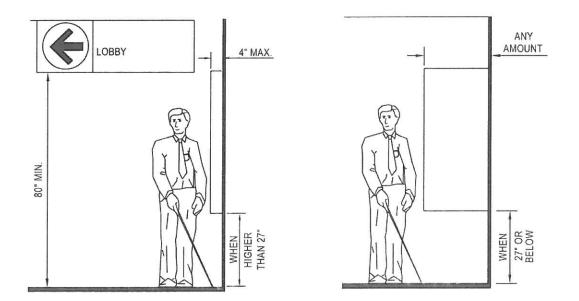
### 1133B.8.6 Protruding objects.

**1133B.8.6.1 General.** Objects projecting from walls (for example, telephones), with their leading edges between 27 inches (686 mm) and 80 inches (2032 mm) above the finished floor, shall protrude no more than 4 inches (102 mm) into walks, halls, corridors, passageways or aisles. Objects mounted with their leading edges at or below 27 inches (686 mm) above the finished floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhang 12 inches (305 mm) maximum from 27 inches (686 mm) to 80 inches (2032 mm) above the ground or finished floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space. See Figure 11B-7A.

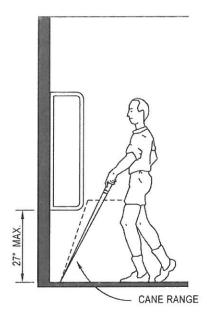
**1133B.8.6.2 Head room.** Walks, halls, corridors, passageways, aisles or other circulation spaces shall have 80 inches (2032 mm) minimum clear head room. If vertical clearance of an area adjoining an accessible route is reduced to less than 80 inches (nominal dimension), a barrier to warn blind or visually impaired persons shall be provided. See Figures 11B-7A and 11B-7C.

# **Next Week**

- Tue 10/25 Accessibility Facilities; optional Midterm
- Thu 10/27 NO CLASS WHOLE CLASS TO ATTEND AIA/IIDA/ASCE SAN PEDRO SQUARE MARKET TOUR EVENT, STARTING AT 6 PM AT SAN PEDRO SQUARE MARKET IN SAN JOSE



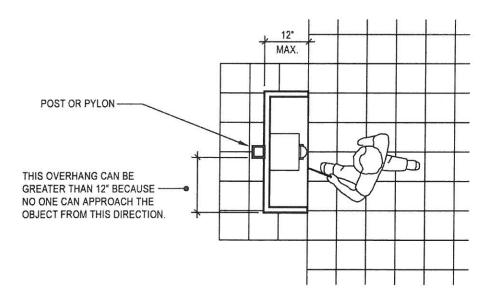
WALKING PARALLEL TO A WALL



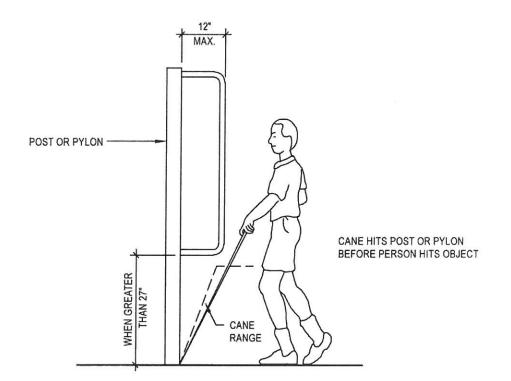
WALKING PERPENDICULAR TO WALL

THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-7A-PROTRUDING OBJECTS







ELEVATION

#### FIGURE 11B-7B-OBJECTS MOUNTED ON POSTS OR PYLONS

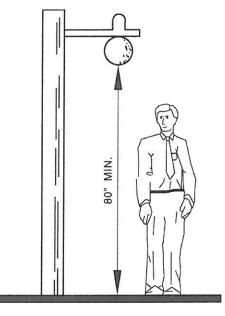
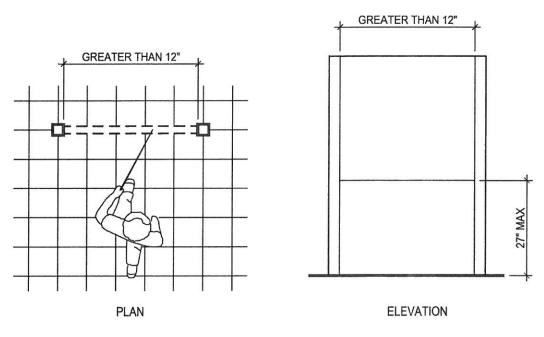
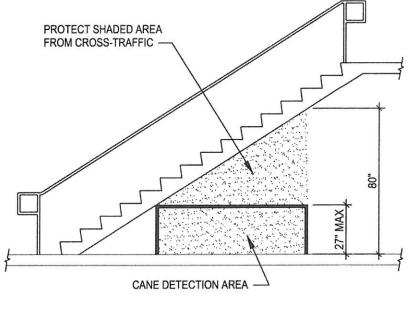


FIGURE 11B-28—OVERHANGING OBSTRUCTION



### FREE-STANDING OVERHANGING OBJECTS



**OVERHEAD HAZARDS** 

#### FIGURE 11B-7C—OVERHANGING AND OVERHEAD HAZARDS