

State of Washington

State Building Code Advisory Council

(name of governing body)

(agency name, if applicable)

Resolution No. _____

Administrative Order No. 83-4 md

(1) Be it resolved by the State Building Code Advisory Council
acting at Sea Tac Fire Station Conference Room
(place)

that it does adopt the annexed rules relating to:

amendment to state Regulations for Barrier Free Facilities ^{BB} WAC 51-10

(2) ALTERNATIVE A. Use only for Adoption of Permanent Rules.

This action is taken pursuant to Notice No. WSR 83-07-012
filed with the code reviser on March 9, 1983. These rules shall take effect:

- thirty days after they are filed with the code reviser pursuant to RCW 34.04.040(2).
- at a later date, such date being _____.

(2) ALTERNATIVE B. Use only for Adoption of Emergency Rules.

We, _____, find that
an emergency exists and that this order is necessary for the preservation of the public health, safety, or general
welfare and that observance of the requirements of notice and opportunity to present views on the proposed action
would be contrary to public interest. A statement of the facts constituting the emergency is:

These rules are therefore adopted as emergency rules to take effect upon filing with the code reviser.

(3) Pursuant to the requirements of RCW 34.04.026¹ that "every agency shall incorporate the most specific, but
in no case omit all, of the following language alternatives when adopting or amending rules" fill in statement (a), (b),
or (c) as appropriate:

(a) This rule is promulgated pursuant to RCW 19.27 and RCW 70.92
and is intended to administratively implement that statute.

(b) This rule is promulgated pursuant to RCW _____
which directs that the

(agency)

has authority to implement the provisions of

(name of act or RCW citation)

(c) This rule is promulgated under the general rule-making authority of the

(agency)

as authorized in RCW _____

(4) The undersigned hereby declares that the agency has complied with the provisions of the Open Public
Meetings Act (chapter 42.30 RCW), the Administrative Procedure Act (chapter 34.04 RCW), and the State Register
Act (chapter 34.08 RCW) in the adoption of these rules.

(5) This order, after being first recorded in the order register of this governing body, is herewith transmitted to
the Code Reviser for filing pursuant to chapter 34.04 RCW and chapter 1-12 WAC.

APPROVED AND ADOPTED June 15, 19 83

JUL 18 1983

By [Signature]

Chairman

Title

CODE REVISER'S OFFICE
WSR 83-15-033

adopted
6-15-83

In the attached draft, **bold type** indicates language changes from previous regulations.

Underlining indicates modification of or change from language in the Uniform Building Code, 1982 Edition.

Language otherwise not identified is taken from the 1982 Uniform Building Code, without change.

INTRODUCTION

General

Sec. 001. These Rules and Regulations are deemed to be requisite standards and specifications as required by the Washington State Building Code, RCW 19.27, Chapter 96, Laws of 1974, as amended by Chapter 110, Laws of 1975, and as further amended. The implementation of these Rules and Regulations shall be vested in the local administrative authority. Compliance herewith shall be prerequisite to issuance of the Certificate of Occupancy.

In case of conflict with provisions contained in the Uniform Building Code, as adopted by the Washington State Building Code, RCW 19.27, the provisions contained herein shall govern.

Numbering and organization: The sections and paragraphs of these rules and regulations are numbered to conform to the Uniform Building Code, and references to sections and paragraph numbers not found in these rules and regulations are to those found in the Uniform Building Code.

Purpose

Section 002. It is the intent of these Rules and Regulations to establish minimum standards for the provision of access to, and use of, all buildings and structures by disabled persons.

Scope

Sec. 003. All Groups A, B, E, H, I and R-I occupancy (as defined in the Uniform Building Code, 1982 Edition) buildings, structures, or portions thereof, which are constructed, substantially remodeled, or substantially rehabilitated (as defined in Chapter 4) shall conform to these regulations.

EXCEPTIONS:

- (1) Any portion of a building or structure in respect to which the administrative authority deems, after considering all circumstances applying thereto, that full compliance is unreasonable or impractical.
- (2) Buildings or portions thereof not customarily occupied by humans.
- (3) Any building or portion thereof exempted by RCW 70.92.110.
- (5) Upon approval of the building official, the second floor or mezzanine of two story buildings, of other than Group R occupancies, in which the occupant load is less than 30 on the second floor or mezzanine.

CHAPTER 4

Definitions

Sec. 401. Definitions contained herein together with additional definitions contained in Chapter 4 of the Uniform Building Code, 1982 Edition, apply.

Sec. 402. Accessibility. The combination of factors which create an environment free of barriers to the mobility of able bodied persons and disabled persons. For the purposes of this code the environment consists of Routes of Travel to and through Buildings and Structures.

Accessible Building. A building with accessible route(s) of travel interconnecting primary public building entrances, designated major floor areas, accessible building facilities, and primary exits.

Accessible Building Facilities. Accessible fixed facilities inside the building, such as toilets, water fountains, telephones, counters, tables, desks and other work surfaces, shelving, equipment, signaling devices and switching devices, but excluding accessible routes of travel and major floor areas.

Accessible Dwelling Unit. A dwelling unit in which all habitable spaces, bathrooms, toilet compartments, closets, halls, storage and utility spaces customarily used by an occupant are connected, through an accessible opening to an accessible route of travel or to an accessible space.

Accessible Opening. An opening not less than 32 inches clear in width and not less than 79 inches in height, without a sill or threshold greater than 1/2 inch in height above the walking surface. A door or gate in the open position may not reduce the required opening. Where a door or gate is installed within an accessible opening, an unobstructed floor space shall extend at least 18 inches beyond the strike jamb on the side of the door swing, and, where the door is equipped with both closer and latch, at least 12 inches beyond the strike jamb on the side opposite.

Accessible Route of Travel. A path, without abrupt changes in level greater than 1/2 inch, not less than 32 inches in unobstructed width nor less than 79 inches in unobstructed height at any point, providing accessibility from one or more primary public entrance(s), connecting to any accessible parking and any other accessible site facilities, to one or more primary public building entrances and through the interior of buildings to all major floor areas customarily occupied by humans, and accessible building facilities.

Accessible Site. A site that has accessible route(s) of travel interconnecting primary public site entrances and primary public building entrance(s) and accessible site facilities.

Accessible Site Facilities. Accessible facilities outside buildings, abutting accessible routes of travel, including when provided, parking, waiting areas, drop-off zones, rest areas, public toilets, public telephones, public drinking fountains, and public recreation facilities.

Accessible Space. A space, within a building, which is connected to an accessible route of travel by an accessible opening.

Accessible Vestibule. An accessible space which contains an unobstructed floor space a minimum of 44 inches wide by 48 inches long.

Administrative Authority. The building department of each county, city or town of this state.

Sec. 403. Building Entrance, Primary Public. An accessible opening at a MAIN building entrance on an accessible route of travel.

Sec. 404. Curb Cut. An interruption in a curb with a ramp, no part of which projects into the roadway, from roadway to walk which forms a part of the accessible route of travel.

Current Appraised Value. The current appraised value shall be interpreted to have identical meaning as Value or Valuation in Sec. 423 of the Uniform Building Code.

Sec. 405. Disabled Person. A person capable of achieving independence of mobility without assistance of another person, who may be classified as having a physical impairment which manifests itself in one or more of the following ways: non-ambulatory; semi-ambulatory; visually impaired; deaf or hard of hearing; having faulty coordination; or having reduced mobility, flexibility, coordination, stamina, or perception.

Sec. 412. Landing. A level area at least as wide as and as long as the width of (except as otherwise provided), and within or at a terminus of, a stair or ramp.

Sec. 419. Ramp. Any walking surface having a slope exceeding 1 vertical in 50 horizontal.

Sec. 420. Site Entrance, Primary Public. A designated accessible site entrance on the exterior boundary of the site, or at the beginning of an accessible route of travel leading to primary public building entrance(s). For sites where the natural terrain, or other unusual conditions, do not allow adequate re-configuration to provide an accessible route of travel to the site, the "primary public site entrance" may be deemed to be the point of vehicular debarkation.

Substantially remodeled or substantially rehabilitated. Any alteration or restoration of a building or structure within any 12 month period, the cost of which exceeds 60% of the current appraised value of the particular building or structure.

Sec. 422. Unobstructed Floor Space. A floor and vertical space above such floor space free of any physical obstruction, including door swings, to a height of 29 inches. A toe space which is a minimum of 10 inches in height and 6 inches in depth may be considered a part of the unobstructed floor space.

CHAPTER 5

Classification of All Buildings By Use or Occupancy and General Requirements for all Occupancies.

Access to Toilets and other Facilities

Sec. 511. (a) Access to Water Closets. Each water closet (~~stool~~) shall be located in a clear space not less than 30 inches in width and have a clear space in front of the water closet (~~stool~~) of not less than 24 inches.

Where toilet facilities are provided on any floor where access by the physically handicapped is required by Table No. 33-A, at least one such facility for each sex or a separate facility usable by either sex shall comply with the requirement of this section. Except in dwelling units and guest rooms, such facilities must be available to all occupants and both sexes. All doorways leading to such toilet rooms shall have a clear and unobstructed width of not less than 32 inches. Each such toilet room shall have the following:

1. ~~((A clear))~~ An unobstructed floor space of not less than 44 inches by 48 inches on ~~((each side))~~ the inside and the outside of doors providing access to toilet rooms. ~~((This distance shall be measured at right angles to the face of the door when in the closed position. Not more than one door may encroach into the 44-inch space.))~~
2. ~~((Except in dwelling units and guest rooms, a clear))~~ An unobstructed floor space within the toilet room of sufficient size to inscribe a circle with a diameter not less than 60 inches. Doors in any position may encroach into this space not more than 12 inches.
3. ~~((A clear space not less than 42 inches wide and 48 inches long in front of))~~ At least one accessible water closet ~~((stool for the use of the handicapped))~~ for every 20 water closets or fractional portion thereof. When such water closet (~~stool~~) is within a compartment, the compartment shall have minimum inside dimensions of 4 feet 6 inches wide by 4 feet 8 inches deep, and entry to the compartment shall have a clear width of 32 inches ~~((when located at the end and a clear width of 34 inches when located at the side))~~. The lateral distance from the center line of the water closet to the nearest obstruction, including grab bars, shall be not less than 15 inches on one side and 36 inches on the other side. A door, if provided, shall not encroach into the required space ~~((in front of the water closet))~~ within the compartment. Except for door swing, a clear unobstructed access not less than 48 inches in width shall be provided to toilet compartments. ~~((designed for use by the handicapped.))~~ Water closets shall be mounted with the top of the seat 16 to 18 inches from the finished floor.

4. Grab bars ~~((near each side of))~~ at one side and the back of the ~~((toilet stool))~~ water closet securely attached ~~((33))~~ 32 inches to 36 inches above and parallel to the floor. Grab bars at the side shall be 42 inches long with the front end positioned ~~((24))~~ not less than 18 inches in front of the water closet ~~((stool))~~. Grab bars at the back shall be not less than 24 inches long for room installations and ~~((30))~~ 36 inches long where the water closet is installed in a stall, and shall be mounted not more than 9 inches behind the seat. Grab bars shall have an outside diameter of not less than 1-1/4 inches nor more than 1-1/2 inches and shall provide a clearance of 1-1/2 inches between the grab bar and ~~((adjacent surface))~~ the wall. Grab bars shall be capable of supporting a 300 pound live load without permanent deflection. ~~((Grab bars need not be provided in Group R, Division 4 apartment houses.))~~

~~((5. When it can be established that the facilities are usable by a person in a wheelchair, dimensions other than those above shall be acceptable.))~~

5. Urinals. Where men's urinals are provided, at least one in each toilet room shall be a wall-mounted elongated rim urinal with the opening of the basin not to exceed 17 inches from the finished floor, or shall be a floor mounted urinal, level with the finished floor. An unobstructed floor space, 30 inches wide by 48 inches long, shall be provided in front of each accessible urinal.

(b) Access to Lavatories, Mirrors and Towel Fixtures. In other than Group R, Division 3; Group M; ((Group R, Division 4 apartment houses)) and Group B, Division ~~((s 2 and))~~ 4 storage occupancies, toilet room facilities shall be as follows:

1. ~~((Except for the projection of bowls and waste piping, a clear unobstructed space 30 inches in width, 29 inches in height and 17 inches in depth shall be provided under at least one lavatory.))~~

At least one lavatory shall have a rim height of 33 inches to 34 inches and shall have a 29 inch minimum clearance from the bottom of the apron to the floor. Faucets shall be lever type and shall be no more than 17 inches from the front edge of the lavatory or counter.

Where the water temperature exceeds 120 degrees Fahrenheit (49 degrees Celsius), exposed drain pipes and hot water pipes under a lavatory shall be recessed, insulated or guarded to prevent contact.

2. Where mirrors or shelves are provided, at least one shall be installed so that the bottom of the mirror or the top of the shelf is within 40 inches of the floor.

3. ((Where towel and disposal fixtures are provided, they shall be accessible to the physically handicapped and at least one shall be within 40 inches of the floor.))

Where drying equipment, towel or other dispensers, and disposal fixtures are provided, at least one of each shall be mounted so as not to exceed 40 inches above the finished floor to any rack, operating controls, receptacle or dispenser.

(c) Water Fountains.

((Where water fountains are provided, at least one shall have a spout within 33 inches of the floor and shall have up-front, hand-operated controls. When fountains are located in an alcove, the alcove shall be not less than 32 inches in width.))

Where water fountains and water coolers are provided at least one per floor shall meet the requirements of this section.

- (1) Such water fountains shall have the spout up front and the activating control within six inches of the front of the fountain, and shall provide capability for hand operation.
- (2) Wall mounted fountains shall be mounted with the basin rim not higher than 34 inches above the finished floor. If the fountain is recessed more than 8 inches into the wall, the recessed alcove shall be not less than 48 inches in width.
- (3) Water coolers and floor mounted water fountains having the basin more than 34 inches above the finished floor shall not be considered accessible. An additional adjacent fountain with the rim of the basin not to exceed 30 inches above the finished floor shall be required. If the accessible water cooler or fountain is recessed more than 8 inches, the alcove shall be wide enough to provide 24 inches of clear space from the control handle to the nearest side wall of the alcove. No accessible water cooler or fountain may be recessed more than its depth.

(d) Telephones

Where public telephones are provided, at least one shall be installed so that the handset, dial and coin receiver are within ((54)) 48 inches of the floor. Handset cord length shall be not less than 30 inches. Unobstructed access within 12 inches of the telephone shall be provided. Such access shall be not less than 30 inches in width. If a counter or other writing surface is provided it shall have a clear height underneath of 27 inches above finished floor.

EXCEPTION:

Telephone(s) meeting the requirements of this section may be installed so that the handset, dial and front surface coin receiver are within 54 inches of the floor when there is a space in front 6 feet wide to permit a wheelchair to approach parallel to the telephone. The lateral distance from the center line of the telephone to the nearest obstruction shall be not less than 21 inches.

Enclosed telephone booths shall have the following:

- (1) 42 inches clearance between walls.
- (2) 32 inches clear door opening width, with outswinging, sliding or folding door.
- (3) telephone mounted on sidewall.
- (4) seat, if provided, to fold out of the way.

(e) Shower Areas. In other than Group R, Division 3 and Group M Occupancies, shower facilities shall be as follows:

Where showers are provided, 2 per cent, but in no case less than one, shall be accessible. An accessible shower stall shall have one of the following configurations:

1. 36 inches by 36 inches, with a seat, or
2. At least 30 inches by 60 inches, without a seat.

Thresholds shall be flush, or beveled with a maximum edge height of 1/2 inch, and shall not slope more than 1 in 2.

Showers equipped for disabled persons shall have a slip-resistant floor surface. Where stalls are used, a grab bar a minimum length of 31-3/4 inches and 1-1/4 to 1-1/2 inches in diameter and 1-1/2 inches from the wall shall be mounted 33 inches to 36 inches above and parallel to the finished floor, centered behind and beneath the shower head. A grab bar shall be similarly mounted at one end of, and at right angles to, the above grab bar. These bars may be joined at the corner. The water control shall be lever operated, and mounted 40 inches above the finished floor of the shower. Provision for the attachment of a hand held shower spray on 60 inch long flexible hose shall be provided. Temperature of water discharged from the shower head shall not exceed 120 degrees Fahrenheit (49 degrees Celsius). A recessed soap tray shall be placed at a height of 40 inches above the finished floor. In every accessible shower stall 3 feet by 3 feet, a full-depth seat shall be provided, mounted 16 to 18 inches above the stall floor. The seat shall be capable of supporting a 300 pound live load without permanent deflection.

(f) Bathtub areas.

In other than Group R, Division 3 and Group M Occupancies, bathtub areas shall be as follows:

In other than Group R, Division 1 Occupancies, bathtub areas, as described hereinafter, may substitute for showers as required in Sec. 511(e).

In Group R, Division 1 Occupancies, bathtub areas located in any accessible or adaptable toilet facility or dwelling unit shall be accessible.

EXCEPTION:

In adaptable dwelling units, installation of grab bars, shower units, and in-tub seats may be waived, provided structural provisions be made for their later installation.

An accessible bathtub area shall have one of the following configurations:

1. Seat at head configuration: a seat shall be constructed flush with the top of the tub, at the end opposite the tub drain, extending 15 inches or more beyond the end of the tub. An unobstructed floor space, at least 30 inches wide and as long as the tub plus the seat, shall abut the tub. Two grab bars shall be installed on the wall opposite the unobstructed floor space, one end of which shall terminate where the tub abuts the seat.
2. Seat in tub configuration: a portable, removable seat, 12 inches wide, shall be provided to rest on the tub rim at the sides of the tub. An unobstructed floor space, at least 30 inches wide and as long as the tub, shall abut the tub. Two grab bars shall be installed on the wall opposite the unobstructed floor space, one end of which shall terminate 24 inches from the end of the tub opposite the drain. One grab bar shall be installed on the wall at the end of the tub opposite the drain, extending at least 12 inches from the unobstructed floor space.

In addition to the foregoing, every accessible bathtub area shall comply with the following requirements:

- (1) Grab bars: all required grab bars shall be installed parallel to the floor. One grab bar shall be installed on the wall at the end of the tub nearest the drain, extending at least 24 inches from the unobstructed floor space.
- (2) Unobstructed floor space: a lavatory which complies with the requirements of Sec. 511(b)1. may be installed within the unobstructed floor space. The 30 inch dimension of the unobstructed floor space shall abut an accessible route of travel, or shall be increased to 48 inches.

Where one grab bar is required, it shall be installed at 33 to 36 inches above the floor. Where two grab bars are required, the first shall be mounted at 33 to 36 inches above the floor, and the second shall be mounted 9 inches above the tub rim, and both shall terminate not more than 12 inches from the wall nearest the drain.

- (3) Seat: every seat shall be capable of supporting a load of 300 pounds without permanent deflection. Removable seats shall be provided with slip-resistant mounting surfaces.
- (4) The water control shall be single-lever type, installed beneath the grab bar at the end of the tub nearest the drain. Requirements for hand-held shower spray, and for water temperature, are as in Sec. 511(e).
- (5) Tub enclosures, where provided, shall have no track on the tub rim.
- (g) Fixtures

Where wheelchair spaces are required by Sec. 3316.(c), minimum clearance height beneath fixed tables, desks, counters, and work benches shall be 27 inches. No projection which might obstruct the arm of a wheelchair may intrude into this clearance height, within 24 inches horizontally from the table edge.

Maximum height of any rail of tray slides in dining areas shall be 34 inches.

(h) Access to Manual Fire Alarm Devices

Manual fire alarm devices shall be mounted not more than 54 inches above the finished floor.

CHAPTER 12

Requirements for Group R Occupancies

Construction, Height, and Allowable Area

Sec. 1202(b). Special provisions. Group R, **Division I** Occupancies more than two stories in height or having more than 3,000 square feet of floor area above the first story shall be not less than one-hour fire-resistive construction throughout except as provided in Section 1705(b)2.

Storage or laundry rooms that are within Group R, **Division I** Occupancies that are used in common by tenants shall be separated from the rest of the building by not less than one-hour fire-resistive occupancy separation.

Every apartment house three stories or more in height and containing more than 15 dwelling units and every hotel three stories or more in height or containing 20 or more guest rooms, shall have an approved fire alarm system as specified in the Fire Code.

EXCEPTION: An alarm system need not be installed in buildings not over two stories in height when all individual dwelling units and contiguous attic and crawl spaces are separated from each other and from public or common areas by at least one-hour fire-resistive occupancy separations and each individual dwelling unit has an exit direct to a yard or public way.

For Group R, **Division I** Occupancies with a Group B, **Division I** parking garage in the basement or first floor, see Section 702(a).

For attic space partitions and draft stops, see Section 3205.

For Group R, **Division I** Occupancies, every building, or group of buildings on a single site, containing a total of more than ten dwelling units shall have accessible dwelling units at the rate of one for every 20 units or fractional part thereof.

Accessible hotel guest rooms and their appurtenant rooms designated as accessible spaces, shall be provided in every hotel at the rate of one for every 20 guest rooms or fractional part thereof. Such facilities shall conform to the provisions of Sections 511(a), 511(b), 511(f), 5501 and 5504.

Accessible dwelling units and accessible hotel units shall be divided between single bedroom units and multiple bedroom units in approximate proportion to the numbers of such units in the building.

For other requirements for accessible dwelling units, see Chapters 5, 33, 51 and 55.

For Group R, **Division I** Occupancies, kitchens for use by disabled persons shall have an unobstructed floor space with a minimum dimension of 5 feet. A counter shall be

provided at a maximum height of 30-1/2 inches, with a space beneath at least 29 inches in height, 30 inches wide and 24 inches deep. The kitchen sink, cooking appliance and refrigeration facilities shall have a clear working space of not less than 60 inches in front, except that if a toe space 10 inches or more in height is allowed, such facilities or cabinets may intrude a maximum of 6 inches into the clear working space.

In Group R, Division I dwelling units designed for disabled persons, bathroom facilities shall conform to the provisions of Section 511.

EXCEPTION. In lieu of accessible dwelling units, adaptable dwelling units may be provided as shown on the approved plans. An adaptable dwelling unit is one that shall conform to all the requirements for an accessible dwelling unit, including space and structural provisions for future installation of accessible features, except that the initial installation of the facilities in the following Sections is not required; Sec. 1202(b) (kitchen counter unit only); Sections 511(a)4 (grab bars), (window hardware), 511(b)1 (lavatory requirements), 511(b)2 (mirrors and shelves), 511(b)3 (drying equipment), 511(e) (shower areas), 5501(d) (window hardware), and 7503(e) (parking signage).

CHAPTER 33

EXITS

Sec. 3301. (e) Building Accessibility. Portions of buildings shall be accessible to the physically handicapped as required by Table No. 33-A, and at least one primary public entrance to a building which is required to be accessible shall be usable by the physically handicapped and be on a level that would provide accessibility to the elevators where provided. Every accessible primary public building entrance shall be identified by the International Symbol of Access, displayed on the interior and exterior of the building.

Sec. 3304. (g) Special Doors. Revolving, sliding and overhead doors shall not be used as required exits. Where a turnstile is used, a gate or door to accommodate disabled persons shall be installed adjacent, to serve the same function as the turnstile.

Power-operated doors complying with U.B.C. Standard No. 33-1 may be used for exit purposes. Such doors when swinging shall have two guide rails installed on the swing side projecting out from the face of the door jambs for a distance not less than the widest door leaf. Guide rails shall be not less than 30 inches in height with solid or mesh panels to prevent penetration into door swing and shall be capable of resisting a horizontal load at top of rail of not less than 50 pounds per lineal foot.

EXCEPTIONS:

1. Walls or other type separators may be used in lieu of the above guide rail, provided all the criteria are met.
2. Guide rails in industrial or commercial occupancies not accessible to the public may conform with Exception 4 to the provision of Section 1711.
3. Doors swinging toward flow of traffic shall not be permitted for use by untrained pedestrian traffic unless actuating devices start to function at least 8 feet 11 inches beyond door in open position and guide rails extend 6 feet 5 inches beyond door in open position.

Clearances for guide rails shall be as follows:

- (1) Six inches maximum between rails and leading edge of door at the closest point in its arc of travel.
- (2) Six inches maximum between rails and the door in open position.
- (3) Two inches minimum between rail at hinge side and door in open position.
- (4) Two inches maximum between freestanding rails and jamb or other adjacent surface.

Sec. 3304. (h) Floor Level at Doors. Regardless of the occupant load, there shall be a floor or landing on each side of a door. The floor or landing shall be not more than ½ inch lower than the threshold of the doorway. Where doors open over landings, the landing shall have a length in the direction of travel of not less than 5 feet.

EXCEPTION

1. When the door opens into a stair of a smokeproof enclosure, the landing need not have a length of 5 feet.
2. In Group R, Division 3 Occupancies and within individual units of Group R, Division 1 Occupancies, a door may open on the top step of a flight of stairs or on an exterior landing, provided the door does not swing over the top step or exterior landing and the landing is not more than 7½ inches below the floor level.
3. In Group R, Division 3, Occupancies, screen doors and storm doors may swing over stairs, steps or landings.
4. In Group R, Division 3 Occupancies and private garages and sheds when a door opens over a landing, the landing shall have a length equal to the width of the door.

Sec. 3304. (i) Door Identification. Glass doors shall conform to the requirements specified in Section 5406. Exit doors shall be so marked that they are readily distinguishable from the adjacent construction. For other door identification, see Section 5505. Where vision panels are provided in any door, the bottom of the glass shall be a maximum of 40 inches above the floor.

Corridors and Exterior Exit Balconies

Sec. 3305. (b) Width and Length. Every corridor serving an occupant load of 10 or more shall be not less than 44 inches in width. Regardless of the occupant load, corridors in Group R, Division 3 Occupancies and within dwelling units in Group R, Division 1 Occupancies shall have a minimum width of 36 inches. Every corridor within the accessible route of travel shall contain an unobstructed floor space not less in width than 44 inches nor less in length than 48 inches. Where such corridor is longer than 50 feet, it shall contain, within its middle third, a tee intersection, or an unobstructed floor space not less than 60 inches by 60 inches. For purposes of this requirement, every 200 feet of corridor or portion thereof, measured in the line of travel, shall be considered separately. For special requirements for Groups E and I Occupancies, see Sections 3319 and 3321.

Sec. 3305. (d) Projections. The required width of corridors shall be unobstructed.

EXCEPTIONS:

1. Handrails and doors, when fully opened, shall not reduce the required width by more than 7 inches. Doors in any position shall not

reduce the required width by more than one half. Other nonstructural projections such as trim and similar decorative features may project into the required width 1½ inches on each side.

2. Projecting objects shall not reduce the clear width and height or unobstructed floor space at any point of an accessible route of travel within a corridor. Any wall- or post-mounted object with its leading edge between 27 inches and 79 inches above the floor may project not more than 4 inches into the required width of the corridor. Any wall-mounted or post-mounted projection greater than 4 inches shall extend to the floor.

Stairways

Sec. 3306. (g) Landings. Stairways shall have landings at the top and bottom. Every landing shall have a dimension measured in the direction of travel equal to the width of the stairway. Such dimension need not exceed 4 feet when the stair has a straight run. A door swinging over a landing shall not reduce the width of the landing to less than one half its required width at any position in its swing nor by more than 7 inches when fully open. See Section 3304(h).

EXCEPTION:

Stairs serving an unoccupied roof are exempt from these provisions.

Sec. 3306. (j) Handrails. Stairways shall have handrails on each side, and every stairway required to be more than 88 inches in width shall be provided with not less than one intermediate handrail for each 88 inches of required width. Intermediate handrails shall be spaced approximately equally across the entire width of the stairway.

EXCEPTION:

1. Stairways 44 inches or less in width and stairways serving one individual dwelling unit in Group R, Division 1 or 3 Occupancies may have one handrail, except that such stairways open on one or both sides shall have handrails provided on the open side or sides.
2. Private stairways 30 inches or less in height may have handrails on one side only.
3. Stairways having less than four risers and serving one individual dwelling unit in Group R, Division 1 or 3, or serving Group M Occupancies need not have handrails.

Handrails shall be placed not less than 30 inches nor more than 34 inches above the nosing of treads or above landings. They shall be continuous the full length of the stairs and except for private stairways at least one handrail shall extend not less than ~~((6))~~ 12 inches beyond the top ~~((and))~~ nor less than 22 inches beyond the bottom risers ~~((s))~~ (12 inches plus one tread width). Ends shall be returned or shall terminate in newel posts or safety terminals.

The handgrip portion of handrails shall be not less than $1\frac{1}{4}$ inches nor more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners.

Handrails projecting from a wall shall have a space of not less than $1\frac{1}{2}$ inches between the wall and the handrail. Any recess containing a handrail shall allow a clearance of not less than 18 inches above the top of the rail, and shall be not more than 3 inches in horizontal depth.

Sec. 3306. (m) Interior Stairway Construction. Interior stairways shall be constructed as specified in Part IV of this code.

Except when enclosed usable space under the stairs is prohibited by Section 3309(f), the walls and soffits of the enclosed space shall be protected on the enclosed side as required for one-hour construction.

All required interior stairways which extend to the top floor in any building four or more stories in height shall have, at the highest point of the stair shaft, an approved hatch openable to the exterior not less than 16 square feet in area with a minimum dimension of 2 feet.

EXCEPTION:

The hatch need not be provided on smokeproof enclosures or on stairways that extend to the roof with an opening onto the roof.

In required stairs, nosings must be flush, slip-resistant, and rounded to a radius of $\frac{1}{2}$ inch maximum. Risers shall be sloped, or the underside of the nosing shall have an angle of not less than 60 degrees from the horizontal. Nosings shall project no more than $1\frac{1}{2}$ inches.

Sec. 3306 (n) Exterior Stairway Construction. Exterior stairways shall be of noncombustible material except that on Types III and IV buildings not exceeding two stories in height, and on Type V buildings, they may be of wood not less than 2 inches in nominal thickness. Risers and nosings of exterior stairways shall comply with the same requirements as for interior stairways, Section 3306 (m).

Exterior stairways shall not project into yards where protection of openings is required.

Enclosed usable space under stairs shall have the walls and soffits protected on the enclosed side as required for one-hour fire-resistive construction.

Ramps

Sec 3307. (b) Width. Ramps required by Table No. 33-A for access by the physically

handicapped shall have a minimum clear width of 36 inches. The width of other ramps shall be as required for stairways.

Sec. 3307. (c) Slope. The slope of ramps required by Table No. 33-A shall be not steeper than 1 vertical to 12 horizontal in the direction of travel, nor 1 vertical to 50 horizontal transverse to the direction of travel. The slope of other ramps shall not be steeper than 1 vertical to 8 horizontal.

EXCEPTION:

For alterations and remodeling, ramps required by Table No. 33-A may conform to the following:

| <u>Maximum Rise</u> | <u>Maximum Slope</u> |
|---------------------|----------------------|
| <u>3"</u> | <u>1 in 8</u> |
| <u>6"</u> | <u>1 in 10</u> |

When provided with fixed seating, the main floor of the assembly room of a Group A, Division 1, Division 2, 2.1 or 3 Occupancy may have slope not steeper than 1 vertical to 5 horizontal.

Sec. 3307. (d) Landings. Ramps (~~having slopes greater than 1 vertical to 15 horizontal~~) shall have landings at the top and bottom, and at least one intermediate landing shall be provided for each (~~5 feet~~) 30 inches of rise. Top landings and intermediate landings shall have a dimension measured in the direction of ramp run of not less than 5 feet. Where the ramp changes direction at a landing, the landing shall be not less than 5 feet by 5 feet. Landings at the bottom of ramps shall have a dimension in the direction of ramp run of not less than 6 feet. No ramp shall change direction between landings, except ramps with an inside radius 30 feet or greater.

Doors or gates in any position shall not reduce the minimum dimension of the landing to less than 42 inches and shall not reduce the required width by more than 3½ inches when fully open.

Sec. 3307. (e) Handrails. Ramps having slopes steeper than 1 vertical to (~~15~~) 20 horizontal shall have handrails as required for stairways, except that intermediate handrails as required in Section 3306(j) shall not be required. Ramped aisles need not have handrails on sides serving fixed seating.

Aisles

Sec. 3315. (b) Width. Aisle widths shall be provided in accordance with the following:

1. In areas serving employees only, the minimum aisle width may be (~~24~~) 32 inches but not less than the width required by the number of employees served.

EXCEPTION:

In storage rooms serving employees only, the minimum aisle width may be 24 inches.

2. In public areas of Group B, Division 2 Occupancies, and in assembly occupancies without fixed seats, the minimum clear aisle width shall be 36 inches where tables, counters, furnishings, merchandise or other similar obstructions are placed on one side of the aisle only and 44 inches when such obstructions are placed on both sides of the aisle.
3. In assembly occupancies with fixed seats.
 - A. With standard seating, every aisle shall be not less than 3 feet when serving seats on only one side and not less than 42 inches wide when serving seats on both sides. Such minimum width shall be measured from the point farthest from the exit, cross aisle or foyer and such minimum width shall be increased by 1½ inches for each 5 feet of length toward the exit, cross aisle or foyer.
 - B. With continental seating as specified in Section 3316, side aisles shall be provided and be not less than 44 inches in width.

Sec. 3315. (g) Slope. The slope portion of aisles shall not be steeper than 1 vertical in 8 horizontal, except as permitted in Section 3307(c). Where wheelchair spaces are provided, egress slopes shall not exceed 1 vertical in 12 horizontal.

Seat Spacing

Sec. 3316. (c) Wheelchair Spaces. In places of assembly, instructional areas, or food service areas with fixed seats, designated level spaces 32 inches wide by 42 inches deep for wheelchairs shall be provided at a rate not less than two percent, or a minimum of one, whichever is greater, of total seating capacity of 1000 seats or fewer, and one space for each additional 100 seats over 1000 of seating capacity of 5000 seats or fewer, and one space for every additional 500 seats over 5000. Wheelchair spaces shall not encroach upon the clear space between rows as otherwise required by Section 3316. Such spaces shall be located in places with unobstructed sight lines, shall be accessible, and shall be reasonably distributed throughout the seating plan.

TABLE NO. 33-A MINIMUM EGRESS AND ACCESS REQUIREMENTS

Delete the following footnotes:

⁵Access to floors other than that closest to grade may be by stairs only, except when the only available toilet facilities are on other levels.

⁶Access to floors other than that closest to grade and to garages used in connection with apartment houses may be by stairs only.

¹⁰Access requirements for conference rooms, dining rooms, lounges and exhibit rooms that are part of an office use shall be the same as required for the office use.

CHAPTER 51

Elevators

Sec. 5115. (a) Accessible elevators shall be installed in accord with the following:

(b) Provide at least one accessible passenger elevator in all buildings over one story in height, with a cumulative occupancy of 100 or more persons above and below the main entrance floor, and in all buildings over two stories.

EXCEPTION:

1. Occupancies H-1, H-5, B-1 or B-3 (mechanical access parking garages only), M, and private dwellings.

2. Passenger elevators in buildings of three or fewer stories may be omitted where ramps or grade-level entrances are provided to each floor.

3. Passenger elevator access may be omitted from any floor level when it is demonstrated that access may be gained through level corridors or ramps from an adjacent accessible building, where such access is not restricted.

4. In Group R-1 occupancies where accessible units are provided no elevator shall be required where such units are accessible by ramp or by grade-level accessible route of travel.

Sec. 5116. Platform Lifts

(a) A platform lift shall not be part of an accessible route of travel, unless approved by the building official for alterations or remodeling. When provided as an additional means of access, an approved platform lift shall be connected to an accessible route of travel.

(b) The platform of the lift shall have an unobstructed floor space not less than 32 inches by 48 inches.

(c) Control of the lift mechanism shall be by lever or other device which shall permit operation by wrist or arm pressure or action of the passenger.

(d) Platform floor covering and surface treatment shall comply with Sec. 5504 of these regulations.

CHAPTER 55

Equipment, Hardware, and Specialties

Hardware

Sec. 5501. All hardware used in accessible buildings or facilities shall conform to the following requirements.

(a) Door operators. 1. Door closers or power operators shall be operable as required by Sec. 3304(g).

EXCEPTION: Floor pad or electric eye actuated power operators.

2. Power operated doors. All power operated doors shall remain in the fully open position for no less than 6 second before closing.

Touch-switch actuated doors. Touch switches shall be mounted 36 inches above the floor and not less than 18 inches nor more than 36 inches horizontally from the nearest point of travel of the moving door.

Other power operated doors must be actuated from a location no nearer than 36 inches from the nearest point of travel of the moving door.

(b) Locksets and latchsets. Locksets and latchsets shall have lever or other devices which will permit operation by wrist or arm pressure or action.

EXCEPTION: This provision is not requisite at mechanical, electrical, or janitor rooms.

Height of center of spindle or actuating device shall be 36 to 42 inches above the floor.

Knobs or handles or other operating hardware on doors leading to loading platforms, stages, mechanical equipment rooms, or other areas hazardous to the blind shall be knurled or otherwise rough to the touch.

(c) Door Pulls. Door Pulls shall be mounted so as to be pulled at a height 42 inches above the floor.

(d) Window hardware. In accessible dwelling units, operable window hardware shall have lever type or other handles operable by wrist, arm or shoulder. Such handles shall be located above an unobstructed floor space, and operable from a point not less than 18 inches nor more than 48 inches above the floor.

(e) Lighting and ventilation switches. In accessible dwelling units, switches which control lighting or ventilation shall be located not more than 48 inches above the finished floor.

(f) Electrical convenience outlets. In accessible dwelling units, electrical convenience outlets shall be located not less than 15 inches above the finished floor.

(g) Cabinet hardware. Door and drawer pulls in accessible dwelling units shall enable the user to operate them without grasping.

Sec. 5504. Floor Coverings and Surface Treatments. (a) General. Accessible routes of travel and accessible spaces within buildings shall have continuous common floor or ramp surfaces. No change in surface material shall occur within a ramp. Any abrupt change in height greater than 1/2 inch shall be beveled to 1 in 4. No abrupt change in height greater than 1/2 inch is allowed, without meeting ramp requirements of Sec. 3306(c). All surface treatments shall be firm, stable and slip resistant.

(b) Carpeting. Carpeting and floor mats in accessible areas shall be securely fastened to the underlying surface, and shall provide a firm, stable, continuous, relatively smooth surface.

(c) Showers, locker rooms, swimming pool decks, toilet rooms and other areas subject to wet conditions shall have slip-resistant floors.

Signage

Sec. 5505. (a) International Symbol of Access. Where required by these Rules and Regulations, the following symbol, which is known as the International Symbol of Access, shall be displayed:

Such symbol shall be white on a blue background. The symbol shall be proportioned according to the illustration on Page of these regulations. The symbol shall be displayed to identify accessible features, including but not limited to the following:

Primary Public Site Entrances
Accessible Parking Facilities
Primary Public Building Entrance
Accessible Toilet Rooms
Required Accessible Exits

(b) Visible and tactile signs shall be placed to identify:

(1) Openings to:

(a) public spaces such as reception rooms or toilet rooms
(b) stairs

- (c) loading platforms
- (d) stages
- (e) mechanical equipment rooms.
- (f) fire escapes
- (g) elevators
- (h) other areas hazardous to visually disabled persons

Such sign shall be located on the wall adjacent the opening which forms an entrance to every such area. Where a door is installed, the sign shall be placed adjacent the strike jamb.

(2) Warnings and regulations.

(c) Visible and Tactile signs shall employ lettering raised or grooved at least 1/16 inch, and not less than 1 inch nor more than 2 inches in height, and shall be on a background of contrasting value, not more than 66 inches above the floor.

CHAPTER 75

SITE DEVELOPMENT

Sec. 7501. Scope

- (a) General. Accessible routes of travel shall connect primary public site entrances to primary public building entrances and accessible site facilities.
- (b) Parking spaces, where provided, shall meet the requirements of Sec. 7503.
- (c) Waiting and rest areas, and drop-off zones, where provided, shall meet the requirements of Sec. 7504.

Sec. 7502. Walks, Ramps, Curb Cuts, Stairs.

- (a) Walks, ramps and curb cuts within an accessible route of travel shall conform to the requirements of this section. Stairs shall not be within an accessible route of travel. When provided as alternate means of access to the Primary Public Building Entrance, stairs shall be adjacent to an accessible route of travel and shall comply with Sec. 3305 of this code.
- (b) Drainage. The site shall be graded and drained so as to eliminate pooling of water, or the accumulation of ice or water on the surface of any accessible route of travel.
- (c) Shoulder slopes. Where shoulder slopes abut the accessible route of travel, they shall be at the same grade as its edges, and shall have a slope, downward from the edge, of not more than 1 in 50 for a distance of not less than 3 feet. Where curbs (2 inch minimum), walls, handrails or guardrails abut the accessible route of travel, shoulder slopes are not required.
- (d) Width. The width of walks and ramps shall be not less than 44 inches. A walk surface less than 60 inches in width shall have an unobstructed passing and turning space, not less than 5 feet by 5 feet, at intervals of not more than 200 feet. The clear width of curb cuts shall be not less than 36 inches, exclusive of the required side slopes. Projecting objects shall comply with Sec. 3304(d).
- (e) Slope. Walks shall have a slope in the direction of travel of not more than 1 in 50, and a cross-slope of not more than 1 in 50. Should the slope of a walk exceed 1 in 50, it shall be classified as a ramp. Ramps and curb cuts shall have a slope of not more than 1 in 12 and a cross-slope of not more than 1 in 50. The sides of curb cuts shall have a slope, not more than 1 in 6. Such walks, ramps, and curb cuts shall not be interrupted by abrupt changes in level greater than 1/2 inch.
- (f) Landings. Landings shall be provided as required by Sec. 3306 (d).

(g) Grates. Within an accessible route of travel grates shall have openings no more than 1/2 inch in least clear distance between solid parts. The maximum vertical surface change shall be 1/8 inch.

(h) Expansion and Construction Joints. Expansion and construction joints shall have a width of not more than 1/2 inch, shall be filled with a firm, compressible, elastic material, and shall be flush with the surface.

(i) Materials and Construction. An accessible route of travel shall be constructed of a firm, stable material with a smooth, slip resistant surface not interrupted by any abrupt change greater than 1/2 inch. Any abrupt change greater than 1/2 inch shall be beveled to 1 in 4. No abrupt change in height greater than 1/2 inch is allowed, without meeting ramp requirements of Sec. 3306(c). Where an accessible route of travel intersects with walks, ramps, landings, curb cuts, roadways or parking areas, they shall blend to a common surface. Curb cuts shall have a contrasting surface texture.

(j) Hazards. Any portion of the edge of an accessible route of travel which is more than 8 inches above grade, or which abuts a hazardous area, shall be provided with a protective railing with a top rail at a height of 36 inches and a mid-rail at a height of 18 inches.

(k) Handrails. Ramps which slope more than 1 in 20 shall be provided with handrails on both sides at a height of not less than 32 inches nor more than 36 inches, and shall extend not less than 12 inches beyond the top and bottom of the ramp. The hand grip portion of the handrails shall be not less than 1-1/4 inches not more than 2 inches in the outside dimension and shall be basically oval or round in cross-section and shall have smooth surfaces with no sharp corners. When wall-mounted, handrails shall have 1-1/2 inch clearance from the wall. Handrails shall not be required at any point of access along the ramp, nor at any curb cut.

(l) Illumination. Illumination shall be provided along the accessible route of travel, at any time the building is occupied, with an intensity of not less than one footcandle at grade level.

(m) Signs. At every primary public site entrance and at every major junction along or leading to an accessible route of travel, there shall be a sign displaying the International Symbol of Access. Such sign shall indicate the direction to accessible destinations, including but not limited to primary public site entrances, primary public entrances, and parking spaces provided as required in Sec. 7503. Signs shall be readable from, but shall not obstruct, the accessible route of travel. All signs required by this section shall comply with Sec. 5505.

Sec. 7503. Parking for Disabled Persons.

(a) Minimum Number. In every parking lot or garage provided to serve buildings to which this chapter applies, parking spaces meeting the requirements of this section

(d) Passenger Loading Zones. Passenger loading zones shall be not less than 4 feet wide by 20 feet long with the long dimension abutting and parallel to (1) the vehicle space on one side and (2) an accessible route of travel on the other. Where a loading zone is separated from the accessible route of travel by a curb, a ramp or curb-cut conforming to Sec. 7502 shall be provided.

(e) Slope. Waiting and rest areas, passenger drop-off and loading zones shall slope not more than 1 in 50.

(f) Waiting and rest areas, passenger drop-off and loading zones required by this section shall comply with the requirements of Sec. 7502. (b), (c), (g), (h), (i), (j), (k), and (l).