

Chapter 7. Communication Elements and Features

703 Signs

(Item #235)

703.1 General. Accessible signs shall comply with Section 703. Tactile signs shall contain both raised characters and Braille. Where signs with both visual and raised characters are required, either one sign with both visual and raised characters, or two separate signs, one with visual, and one with raised characters, shall be provided.

703.1.1 Designations.

Interior and exterior signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.3.

EXCEPTION: Exterior signs that are not located at the door to the space they serve shall not be required to comply with 703.3.

703.1.2 Directional and Informational Signs. Signs that provide direction to or information about interior spaces and facilities of the site shall comply with 703.2.

703.1.3 Pictograms. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with 703.5 and shall have text descriptors located directly below the pictogram field and complying with 703.2 and 703.3.

EXCEPTION: Pictograms that provide information about a room or space, such as “no smoking”, occupant logos, and the International Symbol of Accessibility, are not required to have text descriptors.

703.2 Visual Characters.

(Item #175)

703.2.1 General. ~~Visual characters shall comply with Section 703.2.~~

EXCEPTION: ~~Visual characters complying with Section 703.3 shall not be required to comply with Section 703.2.~~ Visual characters shall comply with the following:

1. Visual characters that also serve as tactile characters shall comply with Section 703.3, or
2. Visual characters on VMS signage shall comply with Section 703.7, or
3. Visual characters not covered in items 1 and 2 shall comply with 703.2.

Exception: The visual and tactile requirements of item 1 are permitted to be provided by two separate signs that provide identical information. One of the signs shall comply with Section 703.2 and the second sign shall comply with Section 703.3.

(Item #118)

703.2.10 Finish and Contrast. Characters and their background shall have a nonglare finish. Characters shall contrast with their background, with either light characters on a dark background, or dark characters on a light background. Contrast shall be no less than 70 percent. Contrast shall be determined by the following formula:

Contrast (B1-B2) / B1 x 100

Where:

B1 = the Light Reflectance Value (LRV) of the lighter area, and is a number no less than 45, and

B2 = the Light Reflectance Value (LRV) of the darker area.

Note: in any application both white and black are never absolute; thus B1 never equals 100 and B2 is always greater than zero.

(Item #236)

703.3 Tactile Raised Characters.

703.3.1 General. ~~Tactile~~ Raised characters shall comply with Section 703.3, and shall be duplicated in braille complying with Section 703.4.

703.3.2 Depth. ~~Tactile~~ Raised characters shall be raised $\frac{1}{32}$ inch (0.8 mm) minimum above their background.

703.3.3 Case. Characters shall be uppercase.

703.3.4 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.3.5 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The height of the uppercase letter "I" of the font, measured vertically from the baseline of the character, shall be $\frac{5}{8}$ inch (16 mm) minimum, and 2 inches (51 mm) maximum.

EXCEPTION: Where separate ~~tactile~~ raised and visual characters with the same information are provided, the height of the ~~tactile~~ raised uppercase letter "I" shall be permitted to be $\frac{1}{2}$ inch (13 mm) minimum.

703.3.6 Character Width. The uppercase letter "O" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "O" of the font shall be 55 percent minimum and 110 percent maximum of the height of the uppercase "I" of the font.

703.3.7 Stroke Width. ~~Tactile~~ Raised character stroke width shall comply with Section 703.3.7. The uppercase letter "I" of the font shall be used to determine the allowable stroke width of all characters of a font.

703.3.7.1 Maximum. The stroke width shall be 15 percent maximum of the height of the uppercase letter "I" measured at the top surface of the character, and 30 percent maximum of the height of the uppercase letter "I" measured at the base of the character.

703.3.7.2 Minimum. When characters are both visual and tactile, the stroke width shall be 10 percent minimum of the height of the uppercase letter "I".

703.3.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent ~~tactile~~ raised characters within a message, excluding word spaces. Spacing between individual tactile character shall be $\frac{1}{8}$ inch (3.2 mm) minimum measured at the top surface of the characters, $\frac{1}{16}$ inch (1.6 mm) minimum measured at the base of the characters, and four times the tactile character stroke width maximum. Characters shall be separated from raised borders and decorative elements $\frac{3}{8}$ inch (9.5 mm) minimum.

703.3.9 Line Spacing. Spacing between the baselines of separate lines of tactile raised characters within a message shall be 135 percent minimum and 170 percent maximum of the tactile raised character height.

703.3.10 Height above Floor. Tactile Raised characters shall be 48 inches (1220 mm) minimum above the floor, measured to the baseline of the lowest tactile raised character and 60 inches (1525 mm) maximum above the floor, measured to the baseline of the highest tactile raised character.

EXCEPTION: Tactile Raised characters for elevator car controls shall not be required to comply with Section 703.3.10.

703.3.11 Location. Where a tactile sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side. Where a tactile sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing tactile raised characters and braille shall be located so that a clear floor area 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile raised characters and braille, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices.

(Item #119, #236)

703.3.12 Finish and Contrast. Characters and their background shall have a nonglare finish. Characters shall contrast with their background, with either light characters on a dark background, or dark characters on a light background. Contrast shall be no less than 70 percent. Contrast shall be determined by the following formula:

$$\text{Contrast (B1-B2) / B1 x 100}$$

Where:

B1 = the Light Reflectance Value (LRV) of the lighter area, and is a number no less than 45, and

B2 = the Light Reflectance Value (LRV) of the darker area.

Note: in any application both white and black are never absolute; thus B1 never equals 100 and B2 is always greater than zero.

EXCEPTION: Where separate tactile raised characters and visual characters with the same information are provided, tactile raised characters are not required to have non-glare finish or to contrast with their background.

(Item #121)

703.5.3 Finish and Contrast. Pictograms and their fields shall have a nonglare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field, or a dark pictogram on a light field. Contrast shall be no less than 70 percent. Contrast shall be determined by the following formula:

$$\text{Contrast (B1-B2) / B1 x 100}$$

Where:

B1 = the Light Reflectance Value (LRV) of the lighter area, and is a number no less than 45, and

B2 = the Light Reflectance Value (LRV) of the darker area.

Note: in any application both white and black are never absolute; thus B1 never equals 100 and B2 is always greater than zero.

(Item #235)

703.5.4 Text Descriptors. Where text descriptors for pictograms are required, they shall be located directly below the pictogram field. Text descriptors shall comply with Sections 703.3 and 703.4.

(Item #122)

703.6.2 Finish and Contrast. Symbols of accessibility and their backgrounds shall have a nonglare finish. Symbols of Accessibility shall contrast with their backgrounds, with either a light symbol on a dark background, or a dark symbol on a light background. Contrast shall be no less than 70 percent. Contrast shall be determined by the following formula:

Contrast (B1-B2) / B1 x 100

Where:

B1 = the Light Reflectance Value (LRV) of the lighter area, and is a number no less than 45, and

B2 = the Light Reflectance Value (LRV) of the darker area.

Note: in any application both white and black are never absolute; thus B1 never equals 100 and B2 is always greater than zero.

(Item #175)

703.7 Variable Message Signs.

703.7.1 General. High resolution variable message sign (VMS) characters shall comply with 703.2 and 703.7.12 through 703.7.14. Low resolution variable message sign (VMS) characters shall comply with Section 703.7.

703.7.2 Case. Low resolution VMS characters shall be uppercase.

703.7.3 Style. Low resolution VMS characters shall be conventional in form, shall be sans serif, and shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.7.4 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all low resolution VMS characters of a font. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. The uppercase letter "I" of the font shall have a minimum height complying with Table 703.7.4.

Table 703.7.4—Low Resolution VMS Character Height

Height above Floor to Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 10 feet (3048 mm)	2 inch (51 mm)
	10 feet (3048 mm) and greater	2 inch (51 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 10 feet (3048 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 15 feet (4570 mm)	3 inches (76 mm)
	15 feet (4570 mm) and greater	3 inches (76 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 15 feet (4570 mm)
Greater than 120 inches (3050 mm)	Less than 20 feet (6096 mm)	4 inches (102 mm)
	20 feet (6096 mm) and greater	4 inches (102 mm), plus 1/5 inch (5.1 mm) per foot (305 mm) of viewing distance above 20 feet (6096 mm)

703.7.5 Character Width. The uppercase letter “O” shall be used to determine the allowable width of all low resolution VMS characters of a font. The width of the uppercase letter “O” of the font shall be 70 percent minimum and 90 percent maximum of the height of the uppercase “I” of the font for low resolution VMS characters, or shall comply with the pixel count in Table 703.7.5..

Table 703.7.5 Pixel count for Low Resolution VMS Signage

Character Height (Pixels)	Character Width Using 70-90% Range (Pixels)	Stroke Width Using 15-20% Range (Pixels)	Inter-Character Spacing Using 22-35% Range (Pixels)
7	5-6	1	2
8	6-7	1-2	2-3
9	6-8	1-2	2-3
10	7-9	2	2-4
11	8-10	2	2-4
12	8-11	2	3-4
13	9-12	2-3	3-5
14	10-13	2-3	3-5
15	11-14	2-3	3-5

703.7.6 Stroke Width. The uppercase letter “I” shall be used to determine the allowable stroke width of all low resolution VMS characters of a font. The stroke width shall be 15 percent minimum to 20 percent maximum of the height of the uppercase “I” of the font for low resolution VMS characters, or shall comply with the pixel count in Table 703.7.5.

703.7.7 Character Spacing. Spacing shall be measured between the two closest points of adjacent low resolution VMS characters within a message, excluding word spaces. Spacing between individual characters shall be 22 percent minimum and 35 percent maximum of the character height, or shall comply with the pixel count in Table 703.7.5.

703.7.8 Line Spacing. Low resolution VMS characters shall comply with 703.2.8.

703.7.9 Height Above Floor. Low resolution VMS characters shall be 40 inches (1015 mm) minimum above the floor of the viewing position, measured to the baseline of the character. Heights of low resolution variable message sign characters shall comply with Table 703.7.4, based on the size of the characters on the sign.

703.7.10 Finish. The background of Low resolution VMS characters shall have a non-glare finish.

EXCEPTION: This requirement shall not apply to individual pixels.

703.7.11 Contrast. Low resolution VMS characters shall be light characters on a dark background.

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

703.7.13 Brightness. The brightness of variable message signs in exterior locations shall automatically adjust in response to changes in ambient light levels.

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

[Existing Sections 703.7 and 703.8 to be renumbered.]

704 Telephones

704.1 General. Accessible public telephones shall comply with Section 704.

(Item #238)

704.2 Wheelchair Accessible Telephones. Wheelchair accessible public telephones shall comply with Section 704.2.

EXCEPTION: Drive up only public telephones are not required to comply with 704.2.

(Item #238)

704.2.2 Operable Parts. ~~The highest operable part of the telephone shall comply with Section 308.~~ Operable parts shall comply with Section 309. Telephones shall have push button controls where service for such equipment is available.

(Item #238)

704.4 TTY. TTYs required at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be of sufficient length to allow connection of the TTY and the telephone ~~handset~~ receiver.

(Item #238)

704.6 TTY Shelf. Where public pay telephones designed to accommodate a portable TTY are provided, they shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a TTY and shall have a vertical clearance 6 inches (150 mm) minimum in height above the area where the TTY is placed.

705 Detectable Warnings

(Item #239)

705.6 Transportation Platform Edges. Detectable warning surfaces at transportation platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

707 Automatic Teller Machines (ATM's) and Fare machines

(Item #240)

707.3 Operable Parts. Operable parts shall comply with Section 309. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.

EXCEPTION: Drive up only automatic teller machines and fare machines shall not be required to comply with Section 309.2 or 309.3.

Chapter 8. Special Rooms and Spaces

(Item #241)

801 General

801.1 Scope. Special rooms and spaces required to be accessible by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 8.

802 Assembly Areas

802.1 General. Wheelchair spaces and wheel chair space locations in assembly areas with spectator seating shall comply with Section 802. Team and player seating shall comply with Sections 802.2 through 802.7.

802.2 Floor Surfaces. The floor surface of wheelchair space locations shall have a slope not steeper than 1:48 and shall comply with Section 302.

802.3 Width. A single wheelchair space shall be 36 inches (915 mm) minimum in width. Where two adjacent wheelchair spaces are provided, each wheelchair space shall be 33 inches (840 mm) minimum in width.

802.4 Depth. Where a wheelchair space location can be entered from the front or rear, the wheelchair space shall be 48 inches (1220 mm) minimum in depth. Where a wheelchair space location can only be entered from the side, the wheelchair space shall be 60 inches (1525 mm) minimum in depth.

802.5 Approach. The wheelchair space location shall adjoin an accessible route. The accessible route shall not overlap the wheelchair space location.

802.5.1 Overlap. A wheelchair space location shall not overlap the required width of an aisle.

802.6 Integration of Wheelchair Space Locations. Wheelchair space locations shall be an integral part of any seating area.

802.7 Companion Seat. A companion seat, complying with Section 802.7, shall be provided beside each wheelchair space.

802.7.1 Companion Seat Type. The companion seat shall be equivalent comparable in size, and quality, comfort and amenities ~~to assure equivalent comfort to the seats within the seating area adjacent in the immediate area~~ to the wheelchair space location. Companion seats shall be permitted to be moveable.

802.7.2 Companion Seat Alignment. In row seating, the companion seat shall be located to provide shoulder alignment with the wheelchair space occupant. The shoulder of the wheelchair space occupant ~~is considered to be 36 inches (915 mm) from the front of the wheelchair space.~~ shall be measured either 36 inches (915 mm) from the front or 12 inches (305 mm) from the rear of the wheelchair space. The floor surface for the companion seat shall be at the same elevation as the wheelchair space floor surface.

802.8 Designated Aisle Seats. Designated aisle seats shall comply with Section 802.8.

802.8.1 Armrests. Where armrests are provided on seating in the immediate area of designated aisle seats, folding or retractable armrests shall be provided on the aisle side of the designated aisle seat.

802.8.2 Identification. Each designated aisle seat shall be identified by the International Symbol of Accessibility ~~a sign or marker.~~

802.9 Lines of Sight. Where spectators are expected to remain seated for purposes of viewing events, spectators in wheelchair space locations shall be provided with a line of sight in accordance with Section 802.9.1. Where spectators in front of the wheelchair space locations will be expected to stand at their seats for purposes of viewing events, spectators in wheelchair space locations shall be provided with a line of sight in accordance with Section 802.9.2.

802.9.1 Line of Sight over Seated Spectators. Where spectators are expected to remain seated during events, spectators seated in a wheelchair space location shall be provided with lines of sight to the performance area or playing field comparable to that provided to seated spectators in closest proximity to the wheelchair space location. Where seating provides lines of sight over heads, spectators in wheelchair space locations shall be afforded lines of sight complying with Section 802.9.1.1. Where wheelchair space locations provide lines of sight over the shoulder and between heads, spectators in wheelchair space locations shall be afforded lines of sight complying with Section 802.9.1.2.

802.9.1.1 Lines of Sight over Heads. Spectators seated in a wheelchair space location shall be afforded lines of sight over the heads of seated individuals in the first row in front of the wheelchair space location.

802.9.1.2 Lines of Sight between Heads. Spectators seated in a wheelchair space location shall be afforded lines of sight over the shoulders and between the heads of seated individuals in the first row in front of the wheelchair space location.

802.9.2 Line of Sight over Standing Spectators. Wheelchair space ~~locations~~ required to provide a line of sight over standing spectators shall comply with Section 802.9.2.

802.9.2.1 Distance from Adjacent Seating. The front of the wheelchair space in a wheelchair space location shall be 12 inches (305 mm) maximum from the back of the chair or bench in front.

802.9.2.2 Elevation. The elevation of the ~~tread on which a wheelchair space location~~ floor surface is located shall comply with Table 802.9.2.2. Interpolations shall be permitted for riser heights ~~other than those provided that are not listed in the table, interpolations shall be permitted.~~

Table 802.9.2.2

Required Wheelchair Space Location Elevation Over Standing Spectators

(No change to table)

802.10 Wheelchair Space Dispersion. ~~The minimum number of wheelchair spaces~~ locations shall be dispersed to the ~~minimum number of locations~~ in accordance with Table 802.10. Wheelchair space locations shall be dispersed in accordance with Sections 802.10.1, 802.10.2 and 802.10.3. In addition, ~~in spaces utilized primarily for viewing motion picture projection,~~ Wheelchair space locations shall be dispersed in accordance with Section 802.10.4 in spaces utilized primarily for viewing motion picture projection. Once the required number of wheelchair space locations has been met, further dispersion is not required.

**Table 802.10
Wheelchair Space Location Dispersion**

Total seating in Assembly Areas	Minimum required number of dispersed wheelchair space locations
Up to 150	1
151 to 500	2
501 to 1000	3
1001 to 5,000	3, plus 1 additional space for each 1,000 seats or portions thereof above 1,000
5,001 and over	7, plus 1 additional space for each 2,000 seats or portions thereof above 5,000

802.10.1 Horizontal Dispersion. Wheelchair space locations shall be dispersed horizontally to provide viewing options. ~~Locations shall be separated by a minimum of 10 intervening seats. Two wheelchair spaces shall be permitted to be located side-by-side.~~

EXCEPTION: ~~Horizontal dispersion shall not be required in assembly areas with 300 or fewer seats if the companion seat and the wheelchair space are located within the 2nd and 3rd quartile of the row length. Intermediate aisles shall be included in determining the total row length. If the row length in the 2nd and 3rd quartile of the row is insufficient to accommodate the required number of companion seats and wheelchair spaces, the additional companion seats and wheelchair spaces shall be permitted to be located in the 1st and 4th quartile of the row. In venues where wheelchair space locations are provided on only one side or on two opposite sides of the performance area or playing field, horizontal dispersion is not required where the locations are within the 2nd or 3rd quartile of the total row length. The wheelchair space locations and companion seats shall be permitted to overlap into the 1st and 4th quartile of the total row length if the 2nd and 3rd quartile of the row length does not provide the required length for the wheelchair space locations and companion seats. All intermediate aisles shall be included in determining the total row length.~~

802.10.2 Dispersion for Variety of Distances from the Event. Wheelchair space locations shall be dispersed at a variety of distances from the event to provide viewing options. ~~Locations shall be separated by a minimum of five intervening rows.~~

EXCEPTIONS:

- ~~1. In bleachers, wheelchair space locations shall not be required to be provided only in rows other than rows at points of entry to bleacher seating shall be permitted.~~
- ~~2. In spaces Assembly areas utilized for viewing motion picture projections, assembly spaces with 300 seats or less shall not be required to comply with Section 802.10.2.~~
- ~~3. In spaces Assembly areas with 300 seats or less other than those utilized for viewing motion picture projections, assembly spaces with 300 seats or less shall not be required to comply with Section 802.10.2 if the where all wheelchair space locations are within the front 50 percent of the total rows.~~

802.10.3 Dispersion by Type. ~~Where there are assembly seating areas has multiple distinct seating areas with amenities that differ from other distinct seating areas, each having distinct services or amenities, wheelchair space locations shall be provided within each distinct seating area.~~

802.10.4 Spaces Utilized Primarily for Viewing Motion Picture Projections. In spaces utilized primarily for viewing motion picture projections, wheelchair space locations shall comply with Section 802.10.4.

802.10.4.1 Spaces with Seating on Risers. Where tiered seating is provided, wheelchair space locations shall be integrated into the tiered seating area.

(Item #291)

802.10.4.2 Distance from the Screen. Wheelchair space locations shall be located within the rear ~~60~~ 70 percent of the seats provided.

804 Kitchens and Kitchenettes

(Item #260)

804.2 Clearance. Where a pass-through kitchen is provided, clearances shall comply with Section 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with Section 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2 provided that there is a minimum 40 inch (1015 mm) clearance between all opposing base cabinets, counter tops, appliances, or walls within work areas.

(Item #264)

804.4 Sinks. ~~Sinks~~ The primary sink shall comply with Section 606.

(Item #253)

804.5 Storage. ~~At least 50 percent of shelf space in cabinets shall comply with Section 905.~~

(Item #192)

804.6.1 Clear Floor Space. A clear floor space complying with Section 305 shall be provided at each kitchen appliance. ~~Clear floor spaces are permitted to overlap.~~

(Item #266)

804.6.4 Range or Cooktop. Cooktops shall comply with Section 804.6.4.

804.6.4.1 Approach. ~~A clear floor space, positioned for a parallel or forward approach to the space for a range or cooktop, shall be provided.~~

804.6.4.2 Forward approach Where the clear floor space is positioned for a forward approach, knee and toe clearance complying with Section 306 shall be provided. ~~Where knee and toe space is provided,~~ The underside of the range or cooktop shall be insulated or otherwise configured to prevent burns, abrasions, or electrical shock.

804.6.4.3 Controls. The location of controls shall not require reaching across burners.

(Item #169, #267)

804.6.5.1 Clear floor space. A clear floor space shall be provided. The oven door in the open position shall not obstruct the clear floor space for the oven.

(Item #267)

804.6.5.3 Controls. ~~Ovens shall have controls on front panels.~~ The location of controls shall not require reaching across burners.

(Item #268)

804.6.6 Refrigerator/Freezer. Combination refrigerators and freezers shall have at least 50 per cent of the freezer compartment shelves, including the bottom of the freezer, 54 inches (1370 mm) maximum above the floor when the shelves are installed at the maximum heights possible in the compartment. A clear floor space, positioned for a parallel approach to the ~~space dedicated to a refrigerator/freezer~~, shall be provided. The centerline of the clear floor space shall be off set 24 inches (610 mm) maximum from the centerline of the appliance ~~dedicated space~~.

805 Transportation Facilities

(Item #239)

805.5.2 Detectable Warnings. Platform boarding edges not protected by platform screens or guards shall have a detectable warning complying with Section 705, ~~24 inches (610 mm) in width, along the full length of the public use area of the platform.~~

(Item #128)

805.10 Track Crossings. Where a circulation path ~~servicing boarding platforms~~ crosses tracks, it shall comply with Section 402 and shall have a 24 inch deep detectable warning complying with Section 705 along the full width of the circulation path. The detectable warning surface shall be located so that the edge nearest the rail crossing is 6 foot (1.8 m) minimum and 15 foot (4.6 m) maximum from the centerline of the nearest rail.

EXCEPTION: Openings for wheel flanges shall be permitted to be 2½ inch (64 mm) maximum.

(Item #242)

807 Courtrooms

807.1 General. Courtrooms shall comply with Section 807.

807.2 Turning Space. Where provided, each area that is raised or depressed ~~and accessed by ramps or platform lifts with entry ramps~~ shall provide ~~a an unobstructed~~ turning space complying with Section 304.

EXCEPTION: Levels of jury boxes not required to be accessible.

807.3 Clear Floor Space. Within the defined area of each jury box and witness stand, a clear floor space complying with Section 305 shall be provided.

EXCEPTION: In alterations, wheelchair spaces are not required to be located within the defined area of raised jury boxes or witness stands and shall be permitted to be located outside these spaces where ramps or platform lifts restrict or project into the means of egress required by the administrative authority.

807.4 ~~Judges' Benches and Courtroom Stations.~~ Judges' benches, clerks' stations, bailiffs' stations, deputy clerks' stations, court reporters' stations and litigants' and counsel stations shall comply with Section 902.

807.5 Gallery seating. Gallery seating shall comply with Section 802.

Chapter 9. Built-In Furnishings and Equipment

902 Dining Surfaces and Work Surfaces

(Item #263)

902.3 Exposed Surfaces. There shall be no sharp or abrasive surfaces under the exposed portions of dining surfaces and work surfaces.

903 Benches

(Item #130)

903.2 Clear Floor Space. A clear floor space complying with Section 305, positioned for parallel approach to ~~an end~~ of the bench seat, shall be provided.

(Item #299)

903.5 Height. The top of the bench seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the floor, measured to the top of the seat.

EXCEPTION: Benches primarily for children's use shall be permitted to be 11 inches (280 mm) minimum to 17 inches (430 mm) maximum above the floor, measured to the top of the seat.

904 Sales and Service Counters

(Item #238)

904.1 General. Accessible sales and service counters and windows shall comply with Section 904 as applicable.

Exception: Drive up only sales or service counters and windows are not required to comply with Section 904.1.

Chapter 10. Dwelling Units and Sleeping Units

1002 – Accessible units

(Item #243)

1002.2 Primary Entrance. The accessible primary entrance shall be on an accessible route from public and common areas. The primary entrance shall not be to a bedroom unless it is the only entrance.

(Item #244)

1002.3 Accessible Route. Accessible routes within Accessible units shall comply with Section 1002.3. ~~Exterior spaces less than 30 inches (760 mm) in depth or width shall comply with Sections 1002.3.1, 1002.3.3, 302, and 303.~~

(Item #243)

1002.3.1 Location. At least one accessible route shall connect all spaces and elements that are a part of the unit. Accessible routes shall coincide with or be located in the same area as a general circulation path. ~~Where only one accessible route is provided, it shall not pass through bathrooms and toilet rooms, closets, or similar spaces.~~

EXCEPTION: An accessible route is not required to unfinished attics and unfinished basements that are part of the unit.

(Item #135, #245, #246)

1002.3.2 Turning Space. All habitable rooms, bathrooms and toilet rooms served by an accessible route shall provide a turning space complying with Section 304.

EXCEPTIONS:

1. A turning space is not required within a walk-in closet or pantry.
2. Turning space shall not be required in toilet rooms and bathrooms that are not required to comply with Section 1002.11.

(Item #247)

1002.3.3 Components. Accessible routes shall consist of one or more of the following elements: walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, elevators, and platform lifts.

(Items #246, #249)

1002.5 Doors and Doorways. The primary entrance door to the unit, and all other doorways intended for user passage, shall comply with Section 404.

EXCEPTIONS:

1. Existing doors to hospital patient sleeping rooms shall be exempt from the requirement for space at the latch side provided the door is 44 inches (1120 mm) minimum in width.
2. In toilet rooms and bathrooms not required to comply with Section 1002.11, maneuvering clearances required by Section 404.2.3 are not required on the toilet room or bathroom side of the door.

3. A turning space between doors in a series as required by Section 404.2.5 is not required within dwelling or sleeping units.
4. Storm and screen doors serving individual dwelling or sleeping units are not required to comply with Section 404.2.5.
5. Communicating doors between individual sleeping units are not required to comply with Section 404.2.5.

(Items #137, #250)

1002.9 Operable Parts. Lighting controls, electrical panelboards, electrical switches and receptacle outlets, environmental controls, appliance controls, operating hardware for operable windows, plumbing fixture controls, and user controls for security or intercom systems shall comply with Section 309.

EXCEPTIONS:

1. Receptacle outlets serving a dedicated use.
2. ~~One receptacle outlet shall not be required to comply with Section 309 where all of the following conditions are met:~~
 - (a) ~~the receptacle outlet is above a length of countertop that is uninterrupted by a sink or appliance;~~
 - (b) ~~at least one receptacle outlet complying with Section 1002.9 is provided for that length of countertop; and~~
 - (c) ~~all other receptacle outlets provided for that length of countertop comply with Section 1002.9.~~
2. Where two or more receptacle outlets are provided in a kitchen above a length of counter top that is uninterrupted by a sink or appliance, one receptacle outlet shall not be required to comply with 309.
3. Floor receptacle outlets.
4. HVAC diffusers.
5. Controls mounted on ceiling fans.
6. Where redundant controls other than light switches are provided for a single element, one control in each space shall not be required to be accessible.
7. Reset buttons and shut-offs serving appliances, piping and plumbing fixtures.
8. Electrical panelboards shall not be required to comply with Section 309.4.

(Item #251)

1002.11 Grab Bars and Shower Seat Reinforcement. At fixtures not required to comply with 1002.12.1, Reinforcement in accordance with 1004.11 shall be provided.

(Renumber subsequent sections)

(Items #138, #246)

1002.11 Toilet and Bathing Facilities. At least one toilet and bathing facilities shall comply with Sections 603 through 610. At least one lavatory, one water closet and either a bathtub or shower within the unit shall comply with Section 604 thru 610. The accessible toilet and bathing fixtures shall be in a single toilet/bathing area, such that travel between fixtures does not require travel through other parts of the unit.

(Item #207)

1002.11.1 Vanity Counter Top Space. If vanity counter top space is provided in ~~nonaccessible~~ dwelling or sleeping units not required to be Accessible units within the same facility, equivalent

vanity counter top space, in terms of size and proximity to the lavatory, shall also be provided in Accessible units.

(Item #207)

1002.11.2 Mirrors. Mirrors above accessible lavatories shall have the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor.

(Item #252)

1002.12 Kitchens. Kitchens and kitchenettes shall comply with Section 804. At least one work surface, 30 inches (760 mm) minimum in length, shall comply with Section 902.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to provide an accessible work surface.

(Item #255)

1002.13 Windows. ~~Where operable windows are provided, at least one window in each sleeping, living, or dining space shall have operable parts complying with Section 1002.9. Each required operable window shall have operable parts complying with Section 1002.9.~~

1002.13.1 Operable windows required to provide natural ventilation shall comply with Sections 309.2 and 309.3.

1002.13.2 Operable windows required to provide emergency escape shall comply with Section 309.2.

(Item #253)

1002.14 Storage facilities. Where storage facilities are provided, ~~they~~ at least one of each type shall comply with Section 905.

EXCEPTION: Kitchen cabinets shall not be required to comply with Section 804.5 1002.14.

(Item #138)

1002.15 Beds. Accessible beds shall provide a clear floor space complying with Section 305 on both sides of the bed. The clear floor space shall be positioned for parallel approach to the side of the bed.

EXCEPTION: A single clear floor space complying with Section 305 positioned for parallel approach shall be permitted between two beds.

(Item #139)

1002.16 Bed Clearance. At least one side of one bed in Accessible dwelling units and sleeping units shall provide vertical clearance for the full length of the bed, excluding legs. Clearance shall be 6 1/2 inches (163 mm) high minimum measured from the finish floor to the underside of the bed frame and 30 inches deep minimum.

1003 – Type “A” units

(Item #243)

1003.2 Primary Entrance. The accessible primary entrance shall be on an accessible route from public and common areas. The primary entrance shall not be to a bedroom unless it is the only entrance.

(Item #244)

1003.3 Accessible Route. Accessible routes within Type A units shall comply with Section 1003.3. ~~Exterior spaces less than 30 inches (760 mm) in depth or width shall comply with Sections 1003.3.1, 1003.3.3, 302, and 303.~~

(Item #243)

1003.3.1 Location. At least one accessible route shall connect all spaces and elements that are a part of the unit. Accessible routes shall coincide with or be located in the same area as a general circulation path. ~~Where only one accessible route is provided, it shall not pass through bathrooms and toilet rooms, closets, or similar spaces.~~

EXCEPTION: An accessible route is not required to unfinished attics and unfinished basements that are part of the unit.

(Item #135, #244, #245)

1003.3.2 Turning Space. All habitable rooms, bathrooms and toilet rooms served by an accessible route shall provide a turning space complying with Section 304.

EXCEPTIONS:

1. A turning space is not required in toilet rooms and bathrooms that are not required to comply with Section 1003.11.5 through 1003.11.9.
2. A turning space is not required within a walk-in closet or pantry.

(Item #247)

1003.3.3 Components. Accessible routes shall consist of one or more of the following elements: walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, elevators, and platform lifts.

(Items #244, #245, #249)

1003.5 Doors and Doorways. The primary entrance door to the unit, and all other doorways intended for user passage, shall comply with Section 404.

EXCEPTIONS:

- Thresholds at exterior sliding doors shall be permitted to be $\frac{3}{4}$ inch (19 mm) maximum in height, provided they are beveled with a slope not greater than 1:2.
- In toilet rooms and bathrooms not required to comply with Section 1003.11.5 through 1003.11.9, maneuvering clearances required by Section 404.2.3 are not required on the toilet room or bathroom side of the door.
3. A turning space between doors in a series as required by Section 404.2.5 is not required within dwelling or sleeping units.

4. Storm and screen doors serving individual dwelling or sleeping units are not required to comply with Section 404.2.5.
5. Communicating doors between individual sleeping units are not required to comply with Section 404.2.5.
6. At other than the primary entrance door, where exterior space dimensions are less than the required maneuvering clearance, door maneuvering clearance is not required on the exterior side of the door.

(Items #137, #250)

1003.9 Operable Parts. Lighting controls, electrical panelboards, electrical switches and receptacle outlets, environmental controls, appliance controls, operating hardware for operable windows, plumbing fixture controls, and user controls for security or intercom systems shall comply with Section 309.

EXCEPTIONS:

1. Receptacle outlets serving a dedicated use.
2. ~~One receptacle outlet is not required to comply with Section 309 where all of the following conditions are met:~~
 - ~~(a) the receptacle outlet is above a length of countertop that is uninterrupted by a sink or appliance; and~~
 - ~~(b) at least one receptacle outlet complying with Section 1003.9 is provided for that length of countertop; and~~
 - ~~(c) all other receptacle outlets provided for that length of countertop comply with Section 1003.9.~~
2. Where two or more receptacle outlets are provided in a kitchen above a length of counter top that is uninterrupted by a sink or appliance, one receptacle outlet shall not be required to comply with 309.
3. Floor receptacle outlets.
4. HVAC diffusers.
5. Controls mounted on ceiling fans.
6. Where redundant controls other than light switches are provided for a single element, one control in each space shall not be required to be accessible.
7. Reset buttons and shut-offs serving appliances, piping and plumbing fixtures.
8. Electrical panelboards shall not be required to comply with Section 309.4.

(Item #251)

New Section 1003.11 (See existing 1003.11.4 below)

(Item #251)

~~1003.11~~ 1003.12 Toilet and Bathing Fixtures

(Item #251)

~~1003.12.1~~ 1003.11.1 General. ~~All toilet and bathing areas shall comply with Section 1003.11.9.~~ At least one toilet and bathing facility shall comply with Section ~~1003.11~~ 1003.12. At least one lavatory, one water closet and either a bathtub or shower within the unit shall comply with Section ~~1003.11~~ 1003.12. The accessible toilet and bathing fixtures shall be in a single toilet/bathing area, such that travel between fixtures does not require travel through other parts of the unit.

(Renumber subsequent sections)

(Item #192)

~~1003.11.3 Overlap.~~ Clear floor spaces, clearances at fixtures and turning spaces are permitted to overlap.

(Item #251)

~~1003.11~~ ~~1003.11.4~~ **Grab Bar and Shower Seat Reinforcement.** Reinforcement shall be provided for the future installation of grab bars complying with Section 604.5 at water closets, grab bars complying with Section 607.4 at bathtubs, and for grab bars and shower seats complying with Sections 608.3 and 608.4 at shower compartments. ~~and shower seats at water closets, bathtubs, and shower compartments. Where walls are located to permit the installation of grab bars and seats complying with Sections 604.5, 607.4, 608.3 and 608.4, reinforcement shall be provided for the future installation of grab bars and seats meeting these requirements.~~

EXCEPTIONS:

1. At fixtures not required to comply with 1003.12.1, Reinforcement in accordance with 1004.11 shall be permitted.
2. Reinforcement is not required in a room containing only a lavatory and a water closet, provided the room does not contain the only lavatory or water closet on the accessible level of the dwelling unit.
3. Reinforcement for the water closet side wall vertical grab bar component required by Section 604.5 is not required.
4. Where wall space will not permit a grab bar complying with 604.5.2 reinforcement at the water closet rear wall for a 24 inch (610 mm) minimum length grab bar, centered on the water closet, shall be provided.

(Renumber subsequent sections.)

(Items #207, #256)

1003.11.6 Mirrors. Mirrors above accessible lavatories shall have the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor.

(Item #257)

1003.11.7 Water Closet. Water closets shall comply with Section 1003.11.7.

1003.11.7.1 Location. The water closet shall be positioned with a wall to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum and 18 inches (455 mm) maximum from the sidewall.

1003.11.7.2 Clearance Width. A clearance around the water closet ~~of shall be~~ shall be 60 inches (1525 mm) minimum in width, measured perpendicular from the side wall. ~~and~~

1003.11.7.3 Clearance Depth. Clearance around the water closet shall be 56 inches (1420 mm) minimum in depth, measured perpendicular from the rear wall, ~~shall be provided.~~

(Items #144, #257)

~~1003.11.7.3~~ **1003.11.7.4 Clearance Overlap.** The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, coat hooks, shelves, accessible routes, clear floor space required at other fixtures, and the wheelchair

turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

EXCEPTION: A lavatory measuring 24 inches (610 mm) maximum in depth and complying with Section 1003.11.5 shall be permitted on the rear wall 18 inches (455 mm) minimum from the centerline of the water closet where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

(Renumber subsequent sections)

(Item #258)

1003.11.7.5 Flush Controls. Flush controls shall be hand-operated or automatic. Hand-operated flush controls shall comply with Section ~~309. 4003.9.~~ Hand-operated flush controls shall be located on the open side of the water closet.

(Item #259)

1003.11.8 Bathing Fixtures. The accessible bathing fixture shall be a bathtub complying with Section 1003.11.8.1 or a shower compartment complying with Section 1103.11.8.2.

(Items #259, #303)

~~1003.11.8~~ **1003.11.8.1 Bathtub.** Bathtubs shall comply with Section 607.

EXCEPTIONS:

1. The removable in-tub seat required by Section 607.3 is not required.
2. Counter tops and cabinetry shall be permitted at one ~~the control~~ end of the clearance, provided such counter tops and cabinetry can be removed and the floor finish extends under such cabinetry.

(Items #259, #303)

~~1003.11.8.2~~ ~~1003.11.9~~ **Shower.** Showers shall comply with Section 608.

EXCEPTION: Counter tops and cabinetry shall be permitted at one ~~the control~~ end of the clearance, provided such counter tops and cabinetry can be removed and the floor finish extends under such cabinetry.

(Item #252)

1003.12 Kitchens. Kitchens and kitchenettes shall comply with Section 1003.12.

(Item #262)

1003.12.3.1 Clear Floor Space. A clear floor space, positioned for a forward approach to the work surface, shall be provided. ~~Knee and toe clearance complying with Section 306 shall be provided.~~ The clear floor space shall be centered on the work surface.

1003.12.3.2 Knee and Toe Clearance. Knee and toe clearance shall be provided complying with Section 306.

EXCEPTION: Cabinetry shall be permitted under the work surface, provided:

- (a) the cabinetry can be removed without removal or replacement of the work surface,
- (b) the floor finish extends under such cabinetry, and
- (c) the walls behind and surrounding cabinetry are finished.

(Renumber subsequent sections)

(Item #264)

1003.12.4 Sink. ~~Sinks~~ The primary sink shall comply with Section 1003.12.4.

(Item #265)

1003.12.4.1 Clear Floor Space. A clear floor space, positioned for a forward approach to the sink, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. ~~The clear floor space shall be centered on the sink bowl.~~

EXCEPTIONS:

1. The requirement for knee and toe clearance shall not apply to more than one bowl of a multi- bowl sink.
2. Cabinetry shall be permitted to be added under the sink, provided:
 - (a) the cabinetry can be removed without removal or replacement of the sink,
 - (b) the floor finish extends under such cabinetry, and
 - (c) the walls behind and surrounding cabinetry are finished.

(Item #253)

1003.12.5 Kitchen Storage. ~~A clear floor space, positioned for a parallel or forward approach to the kitchen cabinets, shall be provided.~~

(Item #266)

1003.12.6.4 Range or Cooktop. Cooktops shall comply with Section 1003.12.6.4.

1003.12.6.4.1 Parallel approach. A clear floor space, positioned for a parallel or forward approach to the ~~space for a range or cooktop,~~ shall be provided.

1003.12.6.4.2 Forward approach. Where the clear floor space is positioned for a forward approach, knee and toe clearance complying with Section 306 shall be provided. ~~Where knee and toe space is provided,~~ The underside of the range or cooktop shall be insulated or otherwise configured to protect from prevent burns, abrasions, or electrical shock.

1003.12.6.4.3 Controls. The location of controls shall not require reaching across burners.

1003.12.6.5 Oven. Ovens shall comply with Section 1003.12.5.

(Items #169, #267)

1003.12.6.5.1 Clear floor space. A clear floor space shall be provided. The oven door in the open position shall not obstruct the clear floor space for the oven.

(Renumber existing and subsequent sections)

(Item #267)

1003.12.6.5.4 Controls. The location of controls shall not require reaching across burners.

(Item #268)

1003.12.6.6 Refrigerator/Freezer. Combination refrigerators and freezers shall have at least 50 percent of the freezer compartment shelves, including the bottom of the freezer 54 inches (1370 mm) maximum above the floor when the shelves are installed at the maximum heights possible in the compartment. A clear floor space, positioned for a parallel approach to the ~~space dedicated to~~ a refrigerator/freezer shall be provided. The centerline of the clear floor space shall be offset 24 inches (610 mm) maximum from the centerline of the appliance ~~dedicated space~~.

(Item #269)

1003.12.6.7 Trash Compactor. A clear floor space, positioned for a parallel or forward approach to the trash compactor shall be provided.

(Item #255)

1003.13 Windows. ~~Where operable windows are provided, at least one window in each sleeping, living, or dining space shall have operable parts complying with Section 1003.9. Each required operable window shall have operable parts complying with Section 1003.9.~~

1003.13.1 Operable windows required to provide natural ventilation shall comply with Sections 309.2 and 309.3.

1003.13.2 Operable windows required to provide for emergency escape shall comply with Section 309.2.

(Item #253)

1003.14 Storage facilities. Where storage facilities are provided, they at least one of each type shall comply with Section 905 4003.14.

EXCEPTION: Kitchen cabinets shall not be required to comply with Section 4003.12.5 1003.14.

1003.14.1 Clear Floor Space. ~~A clear floor space complying with Section 305, positioned for a parallel or forward approach, shall be provided at each storage facility.~~

1003.14.2 Height. ~~A portion of the storage area of each storage facility shall comply with at least one of the reach ranges specified in Section 308.~~

1003.14.3 Operable parts. ~~Operable parts on storage facilities shall comply with Section 309.~~

1004 – Type “B” units

(Item #243)

1004.2 Primary Entrance. The accessible primary entrance shall be on an accessible route from public and common areas. The primary entrance shall not be to a bedroom unless it is the only entrance.

(Items #243, #270)

1004.3.1 Location. At least one accessible route shall connect all spaces and elements that are a part of the unit. Accessible routes shall coincide with or be located in the same area as a general circulation path. ~~Where only one accessible route is provided, it shall not pass through bathrooms and toilet rooms, closets, or similar spaces.~~

EXCEPTIONS:

1. An accessible route is not required to unfinished attics and unfinished basements that are part of the unit.
2. One of the following is not required to be on an accessible route:
 - 2.1 A raised floor area in a portion of a living, dining, or sleeping room; or
 - 2.2 A sunken floor area in a portion of a living, dining, or sleeping room; or
 - 2.3 A mezzanine that does not have plumbing fixtures or an enclosed habitable space.

(Item #247)

1004.3.2 Components. Accessible routes shall consist of one or more of the following elements: walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, elevators, and platform lifts.

(Item #271)

1004.4.1 Clear Width. Clear width of an accessible route shall comply with Section 403.5.

(Item #152, #249)

1004.5.1 Primary Entrance Door. The primary entrance door to the unit shall comply with Section 404.

EXCEPTION: ~~Maneuvering clearances required by Section 404.2.3 shall not be required on the unit side of the primary entrance door.~~ Storm and screen doors serving individual dwelling or sleeping units are not required to comply with Section 404.2.5.

(Items #137, #143, #250, #272)

1004.9 Operable Parts. Lighting controls, electrical switches and receptacle outlets, environmental controls, electrical panelboards, and user controls for security or intercom systems shall comply with Sections 309.2 and 309.3.

EXCEPTIONS:

1. Receptacle outlets serving a dedicated use.
2. ~~One receptacle outlet is not required to comply with Sections 309.2 and 309.3 where all of the following conditions are met:~~
 - ~~(a) the receptacle outlet is above a length of countertop that is uninterrupted by a sink or appliance; and~~
 - ~~(b) at least one receptacle outlet complying with Section 1004.9 is provided for that length of countertop; and~~
 - ~~(c) all other receptacle outlets provided for that length of countertop comply with Section 1004.9.~~
2. Where two or more receptacle outlets are provided in a kitchen above a length of counter top that is uninterrupted by a sink or appliance, one receptacle outlet shall not be required to comply with 309.
3. Floor receptacle outlets.
4. HVAC diffusers.

5. Controls mounted on ceiling fans.
6. Controls or switches mounted on appliances.
7. Plumbing fixture controls.
8. Reset buttons and shut-offs serving appliances, piping and plumbing fixtures.
9. Where redundant controls other than light switches are provided for a single element, one control in each space shall not be required to be accessible.
- 10.. Lighting controls, electrical switches and receptacle outlets are permitted to be located over an obstruction of 36 inch maximum height.

(Item #273)

1004.10.1 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for a parallel approach, shall be provided. ~~The clear floor space shall be centered on the appliance.~~

(Item #182)

1004.11 Toilet and Bathing Facilities. Toilet and bathing fixtures shall comply with Section 1004.11.

EXCEPTION: Fixtures on levels not required to be accessible.

1004.11.1 Clear Floor Space. Clear floor space required by Section 1004.11.3.1 or 1004.11.3.2 shall comply with Sections 1004.11.1 and 305.3.

1004.11.1.1 Doors. Doors shall not swing into the clear floor space or clearance for any fixture.

EXCEPTION: Where a clear floor space complying with Section 305.3, excluding knee and toe clearances under elements, is provided within the room beyond the arc of the door swing.

(Items #183, #192)

~~**1004.11.1.3 Overlap.** Clear floor spaces shall be permitted to overlap.~~

(Item #251)

1004.11 ~~1004.11.2~~ Grab Bar and Shower Seat Reinforcement. Reinforcement shall be provided for the future installation of grab bars and shower seats at water closets, bathtubs, and shower compartments. Where walls are located to permit the installation of grab bars and seats complying with Sections 604.5 at water closets, grab bars complying with Section, 607.4 at bathtubs, and for grab bars and shower seats complying with Sections 608.3 and 608.4 at shower compartments, reinforcement shall be provided for the future installation of grab bars and seats meeting those requirements.

EXCEPTIONS:

1. Reinforcement is not required in a room containing only a lavatory and a water closet, provided the room does not contain the only lavatory or water closet on the accessible level of the unit.
2. Reinforcement for the water closet side wall vertical grab bar component required by Section 604.5 is not required.
3. Where wall space will not permit a grab bar complying with 604.5.2, reinforcement at the water closet rear wall for a 24 inch (610 mm) minimum length grab bar, centered on the water closet shall be provided.

4. Where a side wall is not available for a 42 inch (1065 mm) grab bar complying with 604.5.1, reinforcement for a sidewall grab bar, 24 inches (610 mm) minimum in length, located 12 inches (305 mm) maximum from the rear wall, shall be provided.
5. Where a side wall is not available for a 42 inch (1065 mm) grab bar complying with 604.5.1 reinforcement for a swing-up grab bar complying with Sections 1004.11.1 shall be permitted.
6. Where a side wall is not available for a 42 inch (1065 mm) grab bar complying with 604.5.1 reinforcement for two swing-up grab bars complying with Section 1004.11.1 shall be permitted to be installed in lieu of reinforcement for rear wall and side wall grab bars.
7. Reinforcement for a shower seat is not required in shower compartments larger than 36 inches (915 mm) in width and 36 inches (915 mm) in depth.

1004.11.1 Swing-up Grab Bars. A clearance of 18 inches (455 mm) minimum from the centerline of the water closet to any side wall or obstruction shall be provided where reinforcement for swing-up grab bars is provided. Reinforcement shall accommodate a swing-up grab bar centered 15-3/4 inches (400 mm) from the centerline of the water closet and 28 inches (710 mm) minimum in length, measured from the wall to the end of the horizontal portion of the grab bar. Reinforcement shall accommodate a swing-up grab bar with a height in the down position of 33 inches (840 mm) minimum and 36 inches (915 mm) maximum. Reinforcement shall be adequate to resist forces in accordance with Section 609.8.

(Renumber subsequent sections)

(Item #274)

1004.11.3 Toilet and Bathing Areas Rooms. Either all toilet and bathing areas rooms provided shall comply with Section 1004.11.3.1 (Option A), or one toilet and bathing area room shall comply with Section 1004.11.3.2 (Option B).

Option A bathrooms –

(Item #274)

1004.11.3.1 Option A. Each fixture provided shall comply with Section 1004.11.3.1.

EXCEPTIONS:

1. Where multiple lavatories are provided in a single toilet and bathing area such that travel between fixtures does not require travel through other parts of the unit, not more than one lavatory is required to comply with Section 1004.11.3.1.
2. A lavatory and a water closet in a room containing only a lavatory and water closet, provided the room does not contain the only lavatory or water closet on the accessible level of the unit.

(Item #275)

1004.11.3.1.1 Lavatory. A clear floor space complying with Section 305.3, positioned for a parallel approach, shall be provided. The clear floor space shall be centered on the lavatory.

EXCEPTIONS:

1. A lavatory complying with Section 606. Cabinetry shall be permitted under the lavatory provided:
 - (a) such cabinetry can be removed without removal or replacement of the lavatory; and
 - (b) the floor finish extends under such cabinetry; and
 - (c) the walls behind and surrounding cabinetry are finished.

2. Cabinetry shall be permitted under the lavatory provided such cabinetry can be removed without removal or replacement of the lavatory, and the floor finish extends under such cabinetry.

(Item #257)

~~1004.11.3.1.2 Water Closet.~~ The lateral distance from the centerline of the water closet to a bathtub or lavatory shall be 18 inches (455 mm) minimum on the side opposite the direction of approach and 15 inches (380 mm) minimum on the other side. The lateral distance from the centerline of the water closet to an adjacent wall shall be 18 inches (455 mm). The lateral distance from the centerline of the water closet to a lavatory or bathtub shall be 15 inches (380 mm) minimum. The water closet shall be positioned to allow for future installation of a grab bar on the side with 18 inches (455 mm) clearance. Clearance around the water closet shall comply with Section 1004.11.3.1.2.1, 1004.11.3.1.2.2, or 1004.11.3.1.2.3.

~~1004.11.3.1.2.1 Parallel Approach.~~ A clearance 56 inches (1420 mm) minimum measured from the wall behind the water closet, and 48 inches (1220 mm) minimum measured from a point 18 inches (455 mm) from the centerline of the water closet on the side designated for future installation of grab bars shall be provided. Vanities or lavatories on the wall behind the water closet are permitted to overlap the clearance.

~~1004.11.3.1.2.2 Forward Approach.~~ A clearance 66 inches (1675 mm) minimum measured from the wall behind the water closet, and 48 inches (1220 mm) minimum measured from a point 18 inches (455 mm) from the centerline of the water closet on the side designated for future installation of grab bars shall be provided. Vanities or lavatories on the wall behind the water closet are permitted to overlap the clearance.

~~1004.11.3.1.2.3 Parallel or Forward Approach.~~ A clearance 56 inches (1420 mm) minimum measured from the wall behind the water closet, and 42 inches (1065 mm) minimum measured from the centerline of the water closet shall be provided.

1004.11.3.1.2 Location. The centerline of the water closet shall be 16 inches (405 mm) minimum and 18 inches (455 mm) maximum from one side of the required clearance.

1004.11.3.1.3 Clearance. Clearance around the water closet shall comply with 1004.11.3.1.3.1 through 1004.11.3.1.3.3.

EXCEPTION: Clearance complying with 1003.11.7.2 through 1003.11.7.4.

1004.11.3.1.3.1 Clearance Width. Clearance around the water closet shall be 48 inches (1220 mm) minimum in width, measured perpendicular from the side of the clearance that is 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the water closet centerline.

1004.11.3.1.3.2 Clearance Depth. Clearance around the water closet shall be 56 inches (1420 mm) minimum in depth, measured perpendicular from the rear wall.

1004.11.3.1.3.3 Increased Clearance Depth at Forward Approach. Where only a forward approach is provided, the clearance shall 66 inches (1675 mm) minimum in depth, measured perpendicular from the rear wall.

1004.11.3.1.4 Clearance Overlap. An obstruction 24 inches (610 mm) maximum in depth, measured perpendicular from the rear wall, shall be permitted to overlap the required clearance, provided the width of the remaining clearance at the water closet is 33 inches (840 mm) minimum.

(Renumber subsequent sections)

(Item #259)

1004.11.3.1.3 Bathing Fixtures Facilities. Where a bathtub or shower compartment is provided it shall conform with Section 1004.11.3.1.3.1, 1004.11.3.1.3.2, or 1004.11.3.1.3.3.

(Item #259) 1004.11.3.1.3.1 Parallel Approach Bathtubs. A clearance 60 inches (1525 mm) minimum in length and 30 inches (760 mm) minimum in width shall be provided in front of bathtubs with a parallel approach.

Lavatories complying with Section 606 shall be permitted in the clearance. A lavatory complying with Section 1004.11.3.1.1 shall be permitted at ~~the control one~~ end of the bathtub if a clearance 48 inches (1220 mm) minimum in length and 30 inches (760 mm) minimum in width ~~for a parallel approach~~ is provided in front of the bathtub.

(Item #259) 1004.11.3.1.3.2 Forward Approach Bathtubs. A clearance 60 inches (1525 mm) minimum in length and 48 inches (1220 mm) minimum in width shall be provided in front of bathtubs with a forward approach. A water closet and a lavatory shall be permitted in the clearance at ~~the control one~~ end of the bathtub.

Option B bathrooms –

(Item #275)

1004.11.3.2.1 Lavatory. Lavatories shall comply with Section 1004.11.3.1.1. ~~4004.11.3.2.1.~~

1004.11.3.2.1.1 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for a parallel approach, shall be provided.

EXCEPTIONS:

- ~~1. A lavatory complying with Section 606.~~
- ~~2. Cabinetry shall be permitted under the lavatory, provided such cabinetry can be removed without removal or replacement of the lavatory, and the floor finish extends under such cabinetry.~~

1004.11.3.2.1.2 Position. ~~The clear floor space shall be centered on the lavatory.~~

(Item #168)

1004.11.3.2.1.3 Height. The front of the lavatory shall be 34 inches (230 mm) maximum above the floor, measured to the higher of the ~~fixture~~ rim or counter surface.

(Item #252)

1004.12 Kitchens. Kitchens and kitchenettes shall comply with Section 1004.12.

(Item #265)

1004.12.2.1 Sink. A clear floor space, positioned for a parallel approach to a ~~the~~ sink, shall be provided. The clear floor space shall be centered on the sink bowl.

Exception:

~~Sinks complying with Section 606 shall be permitted to have a clear floor space positioned for a parallel or forward approach.~~

A sink with a front approach complying with 1003.12.4.1.

(Item #276)

1004.12.2.2 Dishwasher. A clear floor space, positioned for a parallel or forward approach to the dishwasher, shall be provided. ~~The clear floor space shall be positioned beyond the swing of the dishwasher door.~~ The dishwasher door in the open position shall not obstruct the clear floor space for the dishwasher.

(Item #266)

1004.12.2.3 Cooktop. Cooktops shall comply with Section 1004.12.2.3.

1004.12.2.3.1 Parallel approach. A clear floor space positioned for a parallel or forward approach to the cooktop, shall be provided. The centerline of the clear floor space shall align with the centerline of the cooktop.

1004.12.2.3.2 Forward approach. ~~The centerline of the clear floor space shall align with the centerline of the cooktop.~~ Where the clear floor space is positioned for a forward approach, knee and toe clearance complying with Section 306 shall be provided. ~~Where knee and toe space is provided,~~ The underside of the range or cooktop shall be insulated or otherwise configured to prevent burns, abrasions or electric shocks.

(Items #169, #267)

1004.12.2.4 Oven. A clear floor space, ~~positioned for a parallel or forward approach adjacent to the oven,~~ complying with Section 305.3 shall be provided. The oven door in the open position shall not obstruct the clear floor space for the oven.

(Item #170)

1004.12.2.5 Refrigerator/Freezer. A clear floor space, positioned for a parallel ~~or forward~~ approach to the refrigerator/freezer, shall be provided. The centerline of the clear floor space shall be offset 24 inches (610 mm) maximum from the centerline of the appliance.

1006 – Type “C” units

(Item #277)

1006 Type C Units (Visitability)

1006.1 General. Type C dwelling units shall comply with Section 1006.

1006.2 Unit Entrance. At least one unit entrance shall be on a circulation path complying with Section 1006.5 from a public street or sidewalk, a dwelling unit driveway, or a garage.

1006.3 Connected Spaces. A circulation path complying with Section 1006.5 shall connect the unit entrance complying with Section 1006.2 and with the spaces specified in Section 1006.4.

1006.4 Interior Spaces. The entrance level shall include a toilet room or bathroom complying with Section 1006.6 and one habitable space with an area 70 square feet minimum. Where a food preparation area is provided on the entrance level, it shall comply with Section 1006.7.

Exception: A toilet room or bathroom shall not be required on an entrance level with less than 120 square feet of habitable space.

1006.5 Circulation Path. Circulation paths shall comply with Section 1006.5.

1006.5.1 Components. The circulation path shall consist of one or more of the following elements: walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, elevators complying with Sections 407 through 409, and wheelchair (platform) lifts complying with Section 410.

1006.5.2 Walking Surfaces. Walking surfaces with slopes not steeper than 1:20 shall comply with Section 303

1006.5.2.1 Clear Width. The clear width of the circulation path shall comply with Section 403.5.

1006.5.3 Doors and Doorways. Doors and doorways shall comply with Section 1006.5.3

1006.5.3.1 Clear Width. Doorways shall have a clear opening of 31-3/4 inches (810 mm) minimum. Clear opening of swinging doors shall be measured between the face of the door and stop, with the door open 90 degrees.

1006.5.3.2 Thresholds. Thresholds shall comply with Section 303.

Exception: Thresholds at exterior sliding doors shall be permitted to be 3/4 inch (19 mm) maximum in height, provided they are beveled with a slope not steeper than 1:2.

1006.5.4 Ramps. Ramps shall comply with Section 405.

Exception: Handrails, intermediate landings and edge protection are not required where the sides of ramp runs have a vertical drop off of 1/2 inch (13 mm) maximum within 10 inches (255 mm) horizontally of the ramp run.

1006.5.5 Clear Width. The clear width of the circulation path shall comply with Section 403.5.

1006.6 Toilet Room or Bathroom. At a minimum, the toilet room or bathroom required by Section 1006.4 shall include a lavatory and a water closet. Reinforcement shall be provided for the future installation of grab bars at water closets. Clearances at the water closet shall comply with Section 1004.11.3.1.2.1, 1004.11.3.1.2.2 or 1004.11.3.1.2.3 for Type B Units, Option A bathrooms

1006.7 Food Preparation Area. At a minimum, the food preparation area shall include a sink, a cooking appliance, and a refrigerator. Clearances between all opposing base cabinets, counter tops, appliances or walls within the food preparation area shall be 40 inches (1015 mm) minimum.

Exception: Spaces that do not provide a cooktop or conventional range shall be permitted to provide a clearance of 36 inches (915 mm) wide.

1006.8 Lighting Controls and Receptacle Outlets. Receptacle outlets and operable parts of lighting controls shall be located 15 inches minimum and 48 inches maximum above the finish floor.

Exception: The following shall not be required to comply with Section 1006.8.

1. Receptacle outlets serving a dedicated use.
2. Controls mounted on ceiling fans and ceiling lights.
3. Floor receptacle outlets
4. Lighting controls and receptacle outlets over countertops