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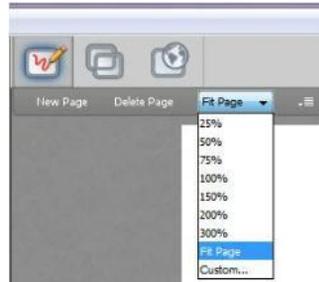
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Accessible Transportation Facilities

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Presenters



Juliet Shoultz, P.E.
U.S. Access Board



Scott Windley
U.S. Access Board

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Session Agenda

- Introduction
- General Access to the Facility
- Unique Provisions
- Additions in DOT Standards
- Q & A

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DOT's ADA Standards



A screenshot of the United States Access Board website. The header includes the logo and the text "UNITED STATES ACCESS BOARD Advancing Full Access and Inclusion for All". A navigation menu has tabs for "The Board", "Guidelines & Standards", "Training", "Enforcement", and "Research". Below the menu is a large image of a modern building facade. A vertical sidebar on the left lists categories: "Communications & IT", "Buildings & Sites", "Recreation Facilities", "Streets & Sidewalks", "Transportation", and "Health Care". A red arrow points to the "Transportation" category. To the right of the building image is a "FEATURED LINKS" section with links for "ADA Standards", "Accessibility Animations", "ICT Refresh", "Webinars", and "File an ABA Complaint". Below that is an "UPCOMING EVENTS" section listing "July 09 Anniversary: FDA Safety and Innovation Act", "July 09 Board Meeting", and "July 12 Transportation Facilities (Webinar)". At the bottom left, there is a "BOARD NEWS" section with two news items: "Access Board Holds Town Hall Meeting in Phoenix (June 11)" and "Bill Botten Named Coordinator of Training and Technical Assistance (May 18)". A small photo of a meeting is shown next to the second news item. A search bar is located in the top right corner.

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DOT's ADA Standards



UNITED STATES ACCESS BOARD
Advancing Full Access and Inclusion for All

Search

Search Transportation
Search entire site

The Board Guidelines & Standards Training Enforcement Research

Home > Guidelines and Standards > Transportation

Transportation

Access to public transportation is required by the Americans with Disabilities Act (ADA) and other laws. Standards issued under the ADA address access to facilities and to vehicles of public transit systems. The Board is developing new guidelines for passenger vessels under the ADA.

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Transportation Facilities
ADA Accessibility Standards apply to bus stops, rail stations, and airports and other transportation facilities.

Transportation Vehicles
The Board's ADA Accessibility Guidelines for Transportation Vehicles apply to buses, vans, rail cars, and other modes of public transit and serve as the basis for standards maintained by the U.S. Department of Transportation that apply to new or remanufactured vehicles.

Passenger Vessels
The Board is developing guidelines under the ADA for access to ferries, cruise ships, excursion boats, and other passenger vessels that will supplement the Board's ADA Accessibility Guidelines for Transportation Vehicles.

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Transportation Facilities



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Chapters 1 and 2

Application and Administration

- **101**- Purpose
- **102**- Dimensions for Adults and Children
- **103**- Equivalent Facilitation
- **104**- Conventions
- **105**- Referenced Standards
- **106**- Definitions
- **201**- Application
 - All areas of newly designed and newly constructed facilities must comply unless indicated.

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Transportation Facilities (218)

- Fixed Guideway Stations
- Key Stations and Existing Intercity Rail Stations
- Bus Shelters
- Other Transportation Facilities (ex. Airports)

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Accessible Routes (206)

- Where Required
 - Site arrival points
 - From parking structures
 - Within sites
 - Between stories
 - Within specific spaces (e.g., restaurants, performance areas, employee work areas)
- Route Elements
 - Entrances
 - Doors
 - Elevators
 - Platform lifts
 - Security barriers



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206.3 Accessible Route Location

Place elements to minimize the distance which persons with mobility impairments have to travel

- Ramps, elevators, and other circulation devices
- Fare vending/collection and other ticketing areas



Passenger Loading Zones (209)

For every continuous 100 linear feet of passenger loading zone, a minimum of 1 accessible loading zone must be provided



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Drinking Fountains (211)

Drinking Fountains (§211)

Half the units provided on floors and exterior sites must be wheelchair accessible and the other half accessible to standees (dual access must be provided where 1 unit is planned on a floor or exterior site).



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Drinking Fountains (211)

Where provided

- 2 required:
 - 36" spout height
 - 38" - 43" spout height



- Alternative: Single unit with dual access
- Multiple installations: 50% of each type

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Toilet & Bathing Facilities (213)

- Toilet rooms clustered at 1 location: 50% scoping
- Unisex toilet rooms
- Urinals - access required where more than 1 is provided



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Signs (216)

- Tactile, Braille and visual – labels for permanent rooms & spaces, exit doors
- Visual – directional and/or informational signs
- Exempt: temporary signs, building menus, directories, addresses, company names and logos, bus schedules

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Signs (216)

- Specific provisions for ISA:
- Means of egress
- Parking
- Entrances
- Elevators
- Toilet and bathing rooms
- TTYs
- Check-out aisles



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Telephones – TTY (217)

- Scoping based on pay phones provided:
 - Banks of phones, floors, buildings, and exterior sites
- Additional scoping for:
 - Rest stops, emergency roadside stops & service plazas
 - Hospitals
 - Transportation facilities
 - Detention and correctional facilities



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Automatic Teller Machines (220)

- At least one of each type at each location must be accessible



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Fare Machines (220)

- At least one of each type at each location must be accessible



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Storage (225)

- Lockers (5%)
- Self-service shelving
- Self-service storage facilities:
 - Up to 200 spaces -5% accessible
 - Over 200 spaces - 2% accessible
 - See Table 225.3



30

Sales & Service Counters (227)

- Sales counters
- Service counters
- Check-out aisles
- Food service lines
- Queues
- Waiting lines



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Two-Way Communication Systems (230)

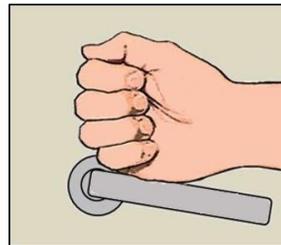
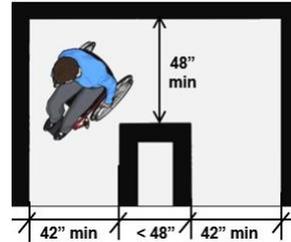
- Applies where provided
- Audible and visual indicators



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Building Blocks – Chapter 3

- 302- Floor or Ground Surfaces
- 303- Changes in Level
- 304- Turning Space
- 305- Clear Floor or Ground Space
- 306- Knee and Toe Clearance
- 307- Protruding Objects
- 308- Reach Ranges
- 309- Operable Parts



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Accessible Routes – Chapter 4

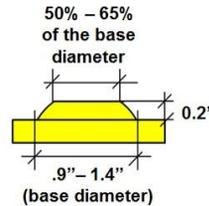
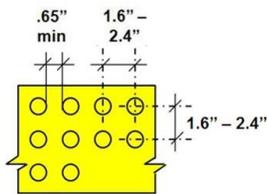
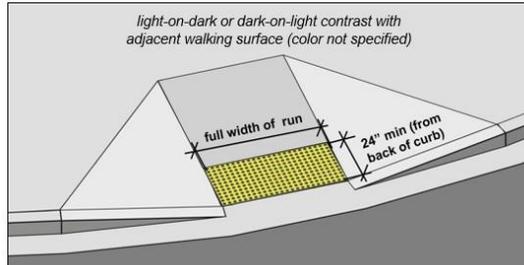
- 402- Accessible Routes
- 403- Walking Surfaces
- 404- Doors, Doorways, Gates
- 405- Ramps
- 406- Curb Ramps
- 407- Elevators
- 408- LULA Elevators
- 409- Private Residence Elevators
- 410- Platform Lifts



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Curb Ramps (406)

Detectable Warnings – DOT added section 406.8



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406.8 Detectable Warnings

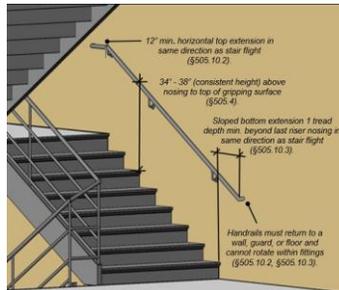


Required on curb ramps at transportation facility sites

36

General Site & Building Elements – Chapter 5

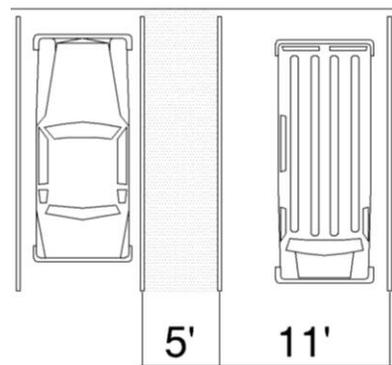
- 502- Accessible Parking
- 503- Passenger Loading Zones
- 504- Stairways
- 505- Handrails



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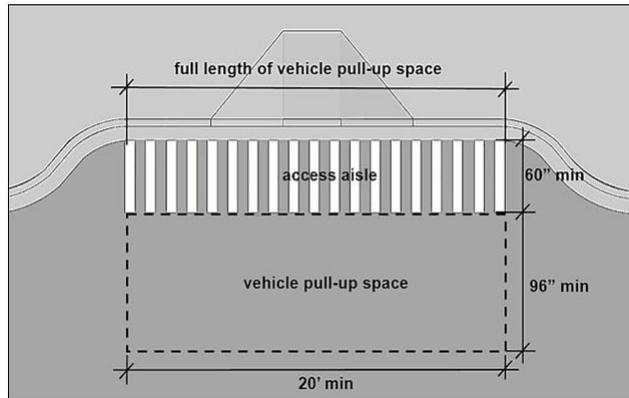
Parking (502)

- Sign height (60" min.)
- Mark access aisles to discourage parking in them



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Passenger Loading Zones (503)



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Plumbing Elements & Facilities – Chapter 6

- 602 -Drinking Fountains
- 603- Toilet & Bathing Rooms
- 604- Water Closets & Toilet Compartments
- 605- Urinals
- 606- Lavatories & Sinks
- 607- Bathtubs
- 608- Shower Compartments
- 609- Grab Bars
- 610- Seats
- 611- Washing Machines & Clothes Dryers
- 612- Saunas & Steam Rooms



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Communication Elements & Features – Chapter 7

- 702- Fire Alarm Systems
- 703- Signs
- 704- Telephones
- 705- Detectable Warnings
- 707- ATMs & Fare Machines
- 708- Two-Way Communication Systems

41

Visual Characters (703.5)

- Of conventional form
- Finish & contrast
- Character proportion,
- Character height (Table 703.5.5)
- Location (40" min. height)
- Stroke thickness
- Line spacing

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Visual Characters (703.5)



Height of sign based on viewing distance

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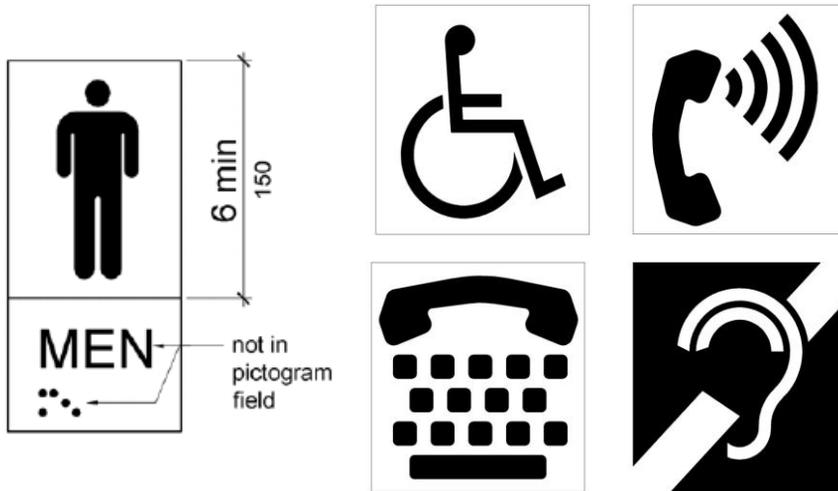
Visual Characters (703.5)

- Height of sign based on viewing distance (Table 703.5.5)
- Sign must contrast light on dark or dark on light



44

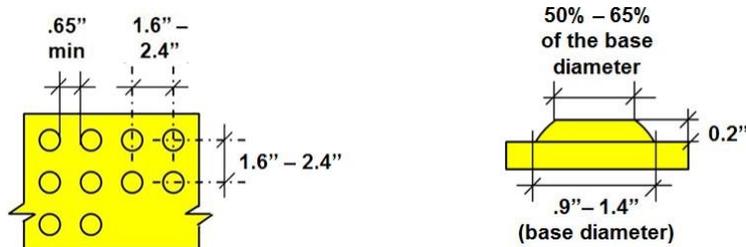
Pictograms (703.6) ISAs (703.7)



45

Detectable Warnings (705)

- Greater range of designs & products allowed
- Dome diameter (range)
- Spacing (range)
- Color contrast



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ATMs & Fare Machines (707)

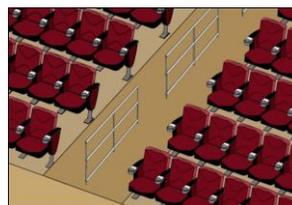
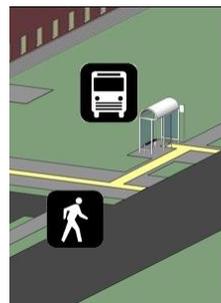
- Height of controls
 - The change to the side reach to 48 inches
- Speech output
 - User controls
- Input features
 - Numeric keys
 - Braille Instructions



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Special Rooms, Spaces & Elements – Chapter 8

- Assembly areas
- Dressing, fitting, and locker rooms
- Kitchens and kitchenettes
- Medical care and long-term care
- Transient lodging
- Prison cells
- Courtrooms
- Dwelling units
- Transportation facilities
- Storage



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Transportation Facilities (810)

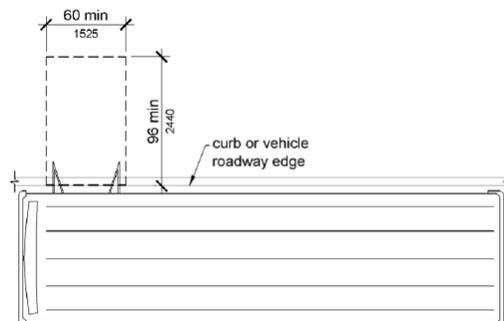
- 810.2- Bus Boarding and Alighting Areas
- 810.3- Bus Shelters
- 810.4- Bus Signs
- 810.5- Rail Platforms
- 810.6- Rail Station Signs
- 810.7- Public Address Systems
- 810.8- Clocks
- 810.9- Escalators
- 810.10- Track Crossings



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Bus Boarding and Alighting Areas (810.2)

- Clear space: 96" x 60"
- 2% max slope perpendicular to road; can match slope of road parallel



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Bus Boarding and Alighting Areas (810.2)



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Dimensions (810.2.2)

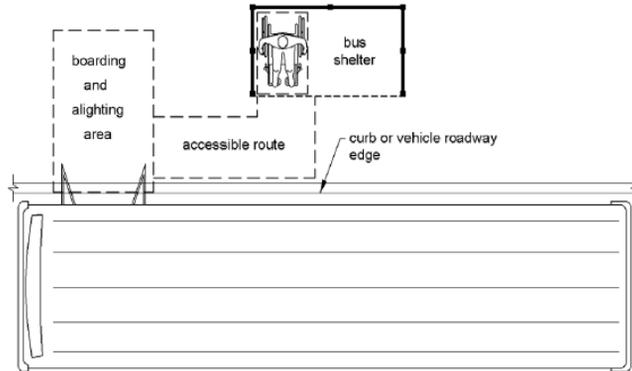
- Public entities shall ensure that the construction of bus boarding and alighting areas comply with 810.2.2, to the extent the construction specifications are within their control



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Bus Shelters (810.3)

- Space for wheelchair entirely within shelter
- Accessible route connection to boarding/alighting area



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Bus Shelters (810.3)

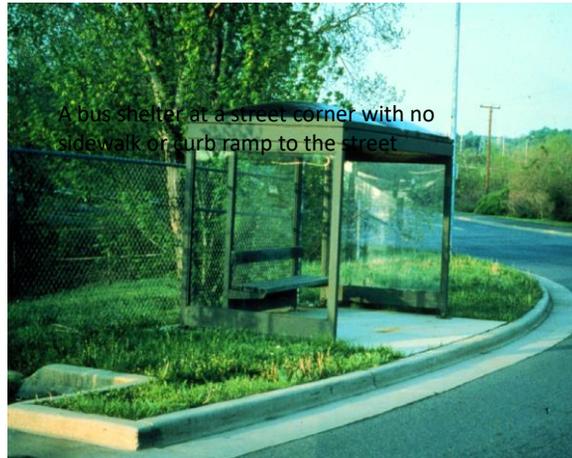
- Accessible route must connect:
 - The space in the shelter
 - The boarding & alighting area
 - Sidewalk or street



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Bus Shelters (810.3)

- This shelter leaves a person stranded



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Bus Signs (810.4)

- Must comply with the requirements of visual characters found in 703



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Bus Signs (810.4)

- Schedules, timetables and maps are not required to comply with 703



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Rail Platforms (810.5)

- 2% max slope except on existing street or track
- Detectable warnings along boarding area
- Level boarding is covered in DOT regulations
- Platform / vehicle complies with vehicle regulations (36 CFR Part 1192)
- Low-level platform 8 inches min above top of rail unless on street or from sidewalk

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Rail Platforms (810.5)

- 2% max slope except on existing street or track



59

Rail Platforms (810.5)

- Detectable warning surface required along boarding platform edge



60

Rail Platforms (810.5)

- Platform/vehicle complies with vehicle regulations (36 CFR Part 1192)



61

Rail Platforms (810.5)

- Platform 8" min above top of rail unless on street or from sidewalk



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Rail Platforms (810.5.3)

- In light rail, commuter rail, and intercity rail systems where it is not operationally or structurally feasible to meet the horizontal gap or vertical difference requirements of part 1192 or 49 CFR part 38, mini-high platforms, car-borne or platform-mounted lifts, ramps or bridge plates or similarly manually deployed devices, meeting the requirements of 49 CFR part 8, shall suffice.



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Rail Station Signs (810.6)

- Signs shall not be required to comply with 810.6.1 and 810.6.2 where audible signs are remotely transmitted to hand-held receivers, or are user- or proximity-actuated.
- Entrances, platform, station names, routes on the platform: comply with 703.5



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Public Address Systems (810.7)

- When audible, visual must be provided.



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Clocks (810.8)

- Easily seen; uncluttered



66

Escalators (810.9)

- Must comply with ASME A17.1



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Track Crossings (810.10)

- Circulation paths serving boarding platforms that cross tracks, must meet section 402.
- Flangeway gap



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Built-In Elements – Chapter 9

- Dining & Work Surfaces
- Benches
- Check-Out Aisles & Service Counters



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DOT Specific Additions Review

- 206.3- Location of Accessible Routes
- 406.8- Detectable Warnings on Curb Ramps
- 810.2.2- Bus Boarding and Alighting Areas
- 810.5.3- Rail Station Platforms



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