

Understanding ADA Regs and Transition Plans



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Continuing Education for Design Professionals

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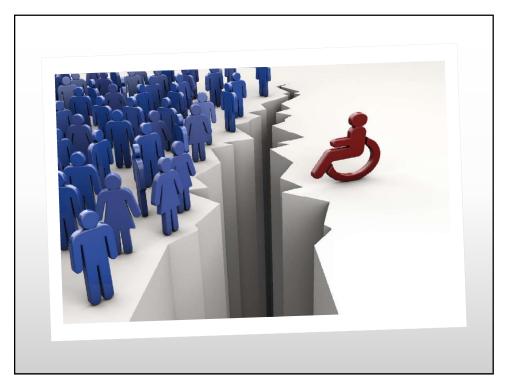
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What We'll Discuss Today

- Federal and state laws governing accessibility
- ADA General Requirements
- Transition Plan Development
- Pictures from actual inspections
- Consequences of non-compliance











At the time ... 43,000,000 people with disabilities in the US (now, 59,000,000)

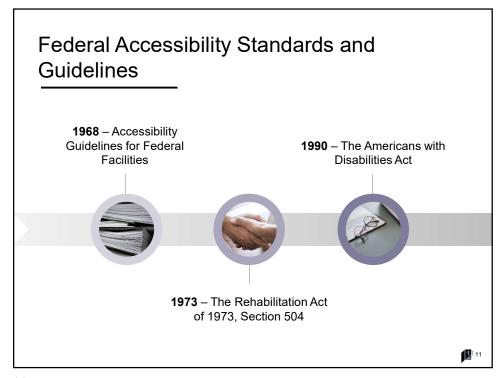
Why Was ADA
Necessary?

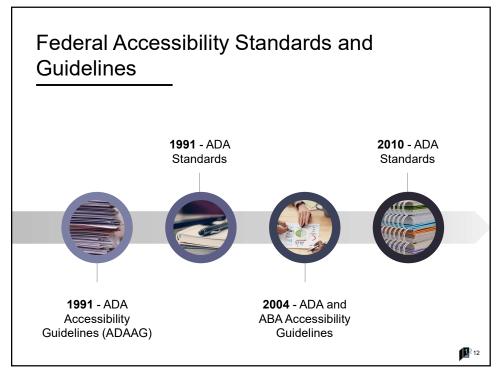
Only 12% were employed and were considered employable

Develop sustainable communities

What Laws Apply?

- Federal and state laws governing accessibility
- It's all about wheelchair access, right?
- Aren't they all the same?
- Isn't it really the architects' decision?
- Does it really matter?
- Nobody ever complains,
- Isn't ADA the most stringent?
- so it's okay, right?





Section 504 Covers:







PROGRAMS SERVICES ACTIVITIES

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DOJ has Determined:

- Sidewalks are programs
- Curb ramps are programs

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Legal Cases Have Confirmed It



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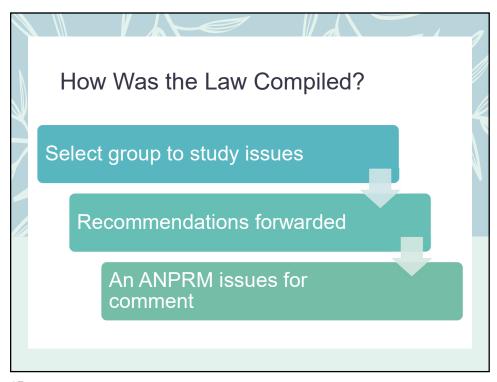
Civil Rights vs. Construction Laws

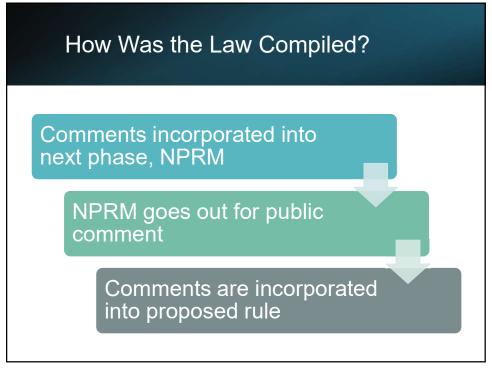
Federal Law

- Required by all states
- Attorney's fees built into the law
- Damages vary by law
- National jurisdiction

Building Code

- Adopted by local jurisdictions
- Apply in addition to Federal laws, not instead of
- State or local jurisdiction





How Was the Law Compiled?

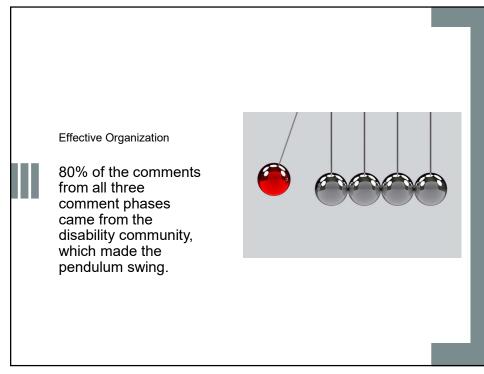
Proposed rule goes out for public comment

Comments are evaluated and added

Final rule is published

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The Reaction

- 1995 Committee was put together
- Recommendations were made
- Standards were reopened
- New standards were published in the Federal Register July 23, 2004
- New standards were ADOPTED July 23, 2010



Safe Harbor – Existing Facilities

- Elements that comply with 1991 Standards do not need to be modified to meet the 2010 Standards unless those elements are altered on or after March 15, 2012.
- Safe Harbor does not apply to elements in existing facilities that were not subject to specific requirements in the 1991 Standards

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- (A) Residential Facilities and dwelling units
- (B) Amusement Rides
- (C) Recreational boating facilities
- (D) Exercise machines and equipment
- (E) Fishing piers and platforms
- (F) Golf Facilities
- (G) Miniature golf facilities
- (H) Play Areas

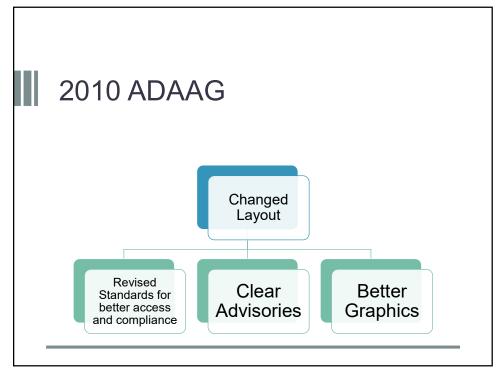


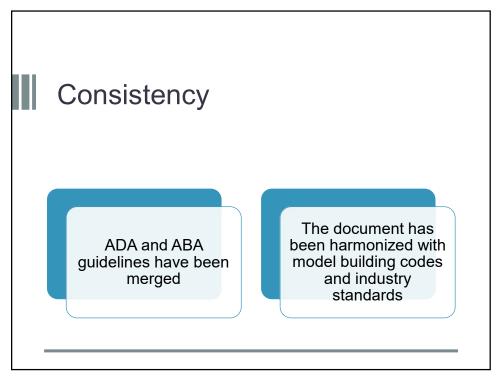
Elements in 2010 Standards Not Subject to Safe Harbor

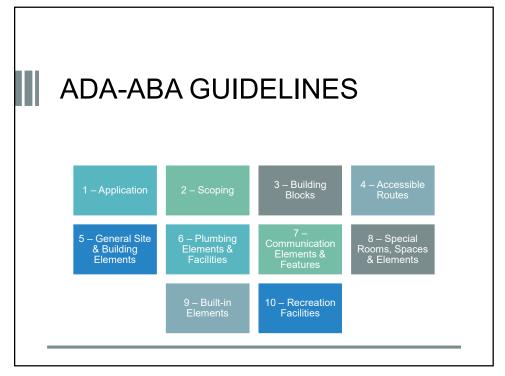
- I. Saunas and steam rooms
- J. Swimming pools, wading pools, and spas
- K. Shooting facilities with Firing positions
- L. Miscellaneous:
 - (1) Team or player seating
 - (2) Accessible route to bowling lanes
 - (3) Accessible route in court sports facilities

Elements in 2010 Standards Not Subject to Safe Harbor

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Chapters 1 & 2

Application and Scoping Requirements

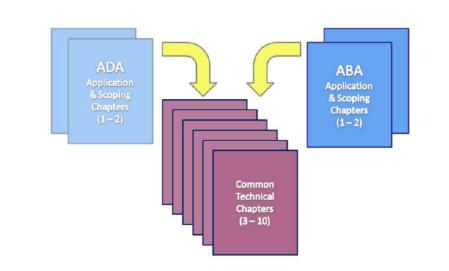
ADA – 100 or 200

ABA – F100 or F200

(80% the same)

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ADA/ABA Document



ADA Is A Federal Law

- The ADA (law) is administered by the Department of Justice
- The guidelines are written by USATBCB, or Access Board
- Guidelines become standards when they are adopted for enforceability

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Five Titles of the ADA

Title I Employment

Title II State and Local Governments (28 CFR Part

35)

Title III Places of Public Accommodation

Title IV Telecommunication

Title V Misc., including requirements for the U.S.

Access Board to develop design guidelines



Five Governing Authorities

Department of Justice – Overall authority

Department of Transportation - Transportation related operations and infrastructure

Department of Defense – Military Installations

US Postal Service - Post Offices

Department of Housing and Urban Development – Housing programs and multi-family projects.

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Warning:

DOJ has initiated "Project Civic Access" specifically for Title II entities

National Cases

- All 50 States
- All size villages, cities, towns, counties
- Other cases include school districts, colleges and universities

www.ada.gov/enforcement

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DOJ Action in 2015

McLennan County, Texas	11/16/15
Galveston County, Texas	9/28/15
San Juan County, New Mexico	9/28/15
Cedar Rapids, Iowa	9/1/15
Robeson County, North Carolina	7/29/15
Lumpkin County, Georgia	7/29/15
Champaign County, Illinois	7/20/15
Merced County, California	7/20/15

DOJ Action in 2015

Yakima County, Washington	7/20/15
Pennington County, South Dakota	6/1/15
Chaves County, New Mexico	5/12/15
Madison County, New York	4/22/15
Rapid City, South Dakota	3/2/15
Washington County, Missouri	2/18/15
Nueces County, Texas	1/30/15

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Supreme Court Decisions

Title I

3 cases were a split decision;

5 cases are wins for persons with disabilities

7 cases are losses for persons with disabilities

Supreme Court Decisions

Title II

5 cases are wins for persons with disabilities

0 losses

Title III

3 cases are wins for persons with disabilities

0 losses

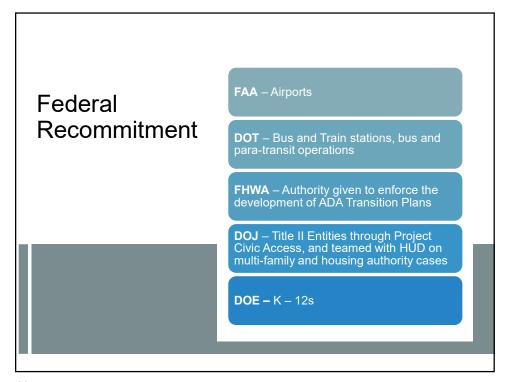
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In 2010, at the 20th anniversary of the signing of the ADA, all federal agencies recommitted to enforcing the ADA



Funding is their only leverage

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Employment

Emergency Planning

Specialty Facilities

In July 2020, at the virtual 30th anniversary of the signing of the ADA, the focus became clear:

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Examples of Specialty Facilities



Hudson Yard Vessel



Idaho State Capitol



Mount Vernon



Orpheum Theater



Indianapolis Motor Speedway



Milwaukee Riverwalk



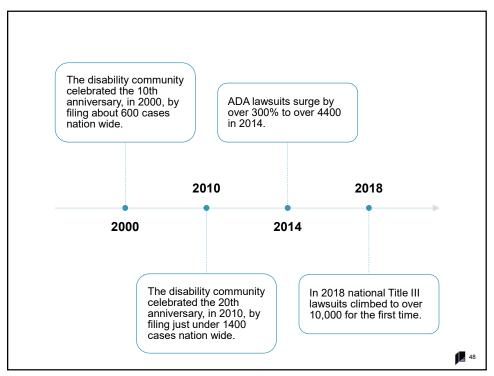


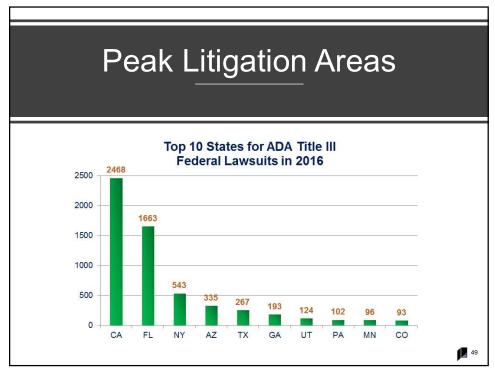


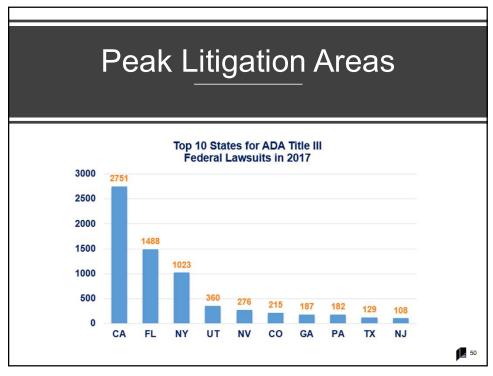
Meanwhile, back in the private sector

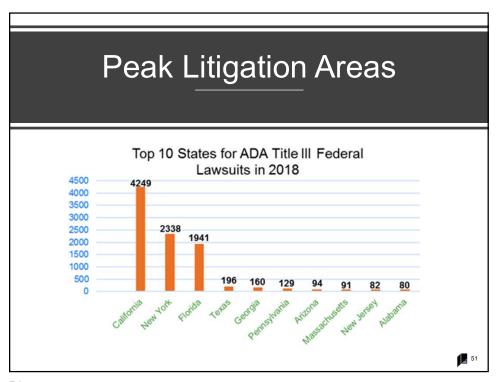


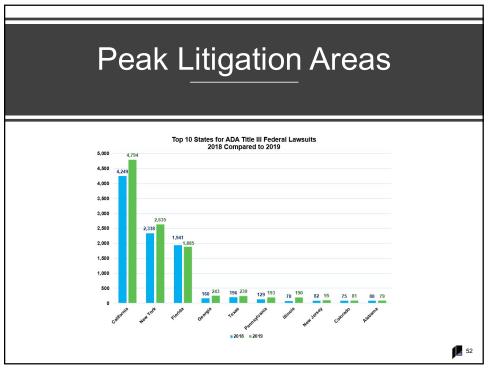
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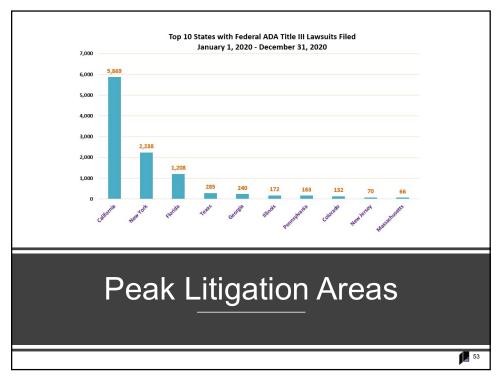




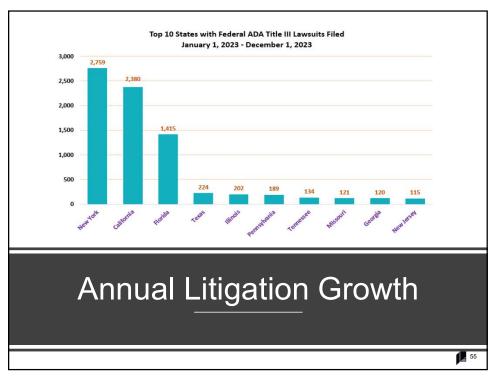


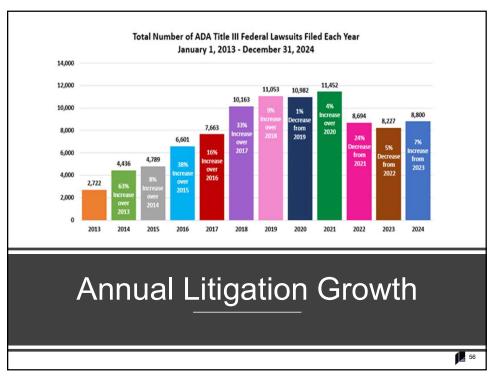




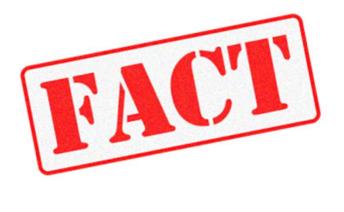


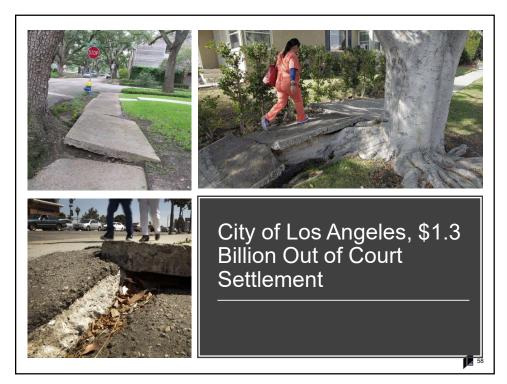












Steps to Compliance

- Step 1 Designating an ADA Coordinator
- Step 2 Providing Public Notice about ADA
 Requirements & Establishing a Grievance
 Procedure.
- Step 3 Gather where you are!
- **Step 4 -** Developing internal design standards, specifications, details
- Step 5 Developing Self Evaluation and Transition Plan
- Step 6 Approving a schedule and budget to implement the Transition Plan
- Step 7 Monitoring progress on implementation of the Transition Plan

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STEP 1: Designating an ADA Coordinator

Person Must be familiar with agency operations

Person must be trained or knowledgeable in ADA and other nondiscrimination laws (Title VI, Title VII)

Person must have sufficient authority, time, and resources to accomplish the duties

Possible needs for others to have ADA responsibilities, but <u>ONE</u> <u>PERSON IN CHARGE</u>.

Suggested position locations – Office of CEO, Civil Rights Office, Legal Department, Planning, Public Information...

Regardless of where...must have authority to impact programs

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Step 2: Providing Notice about the ADA Requirements

The public must be notified about rights under the ADA and the responsibility of the agency under the ADA.

Notice should be on-going/continuous.

Each entity must decide what is effective

Accessible website is recommended at a minimum

Provide the ability to offer comments and follow-up

Public outreach should involve activists, advocacy groups, general citizens, organizations that support the rights of the disabled, elected official, Governor's Council, as well as other agencies (local and State).

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Step 2: (con't) Establishing a Grievance Procedure

The grievance procedure should include:

A description of how and where a complaint under Title II may be filed with the government entity;

a description of the time frames and processes to be followed by the complainant and the government entity;

information on how to appeal an adverse decision; and,

a statement of how long complaint files will be retained.



Step 2: (con't) Establishing a Grievance Procedure

The procedure should enable the filing of complaints in a variety of forms and formats.

Once a state or local government establishes a grievance procedure under the ADA, it should be distributed to all agency heads.

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Step 3: Gather Where You Are

No doubt work has been done in the past 30+ years ...

Was there an original Transition Plan?
How complete was it?
Is ADA a line item in the budget?
Has anyone reviewed new construction for compliance?

Has HR updated job descriptions and hiring/firing practices?

Have programs ever been reviewed?

When was the last Emergency Plan put in place?

Does it include people with disabilities?



Step 4: Developing Internal Design Standards, Specifications and Details

- Use the ADAAG, IBC, and PROWAG
- Detectable Warnings
- Policy on use of Accessible Pedestrian Signals
- Transit/Para-transit & access to stations
- · Furniture/Landscaping Zones
- · Shared Use Paths
- Trails

Tolerances should enable compliance

Don't spec at the limit!

Temporary pedestrian facilities/detours

MUTCD

PROWAG

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Step 5: Developing Self-Evaluation & Transition Plan

Implementation Plan Components

- A list of physical barriers that limit accessibility to services/programs
- A detailed outline of the methods proposed to address the barriers
- 3. A schedule for achieving compliance
- 4. The name of the official responsible for the plan's implementation (likely department level)

Conduct Self-Evaluation

- Programs, Policies, and Practices
- Emergency Programs
- Facilities (Interior <u>and</u> Exterior)
- Transit Stops (bus, train, light rail)
- Vehicles (subway cars, buses, taxis)
- Airports
- Housing programs
- Park programs
- Police/Fire programs

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Programs, Policies, and Practices

Program Access

All community programs must be accessible to those with disabilities (28 CFR 35.149)

Existing facilities

Community programs

Boards and Commissions

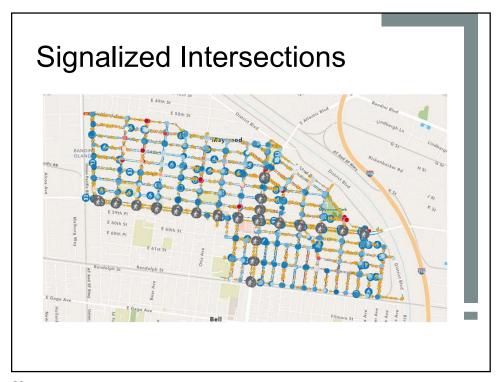
Communication

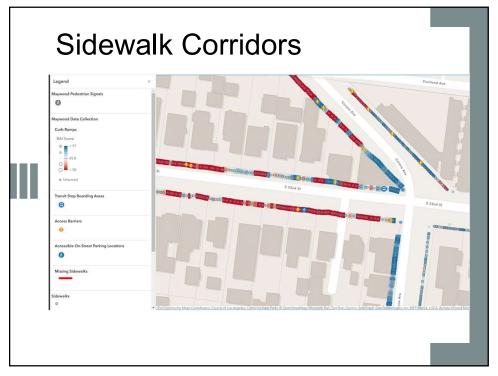
Methods of achieving program accessibility

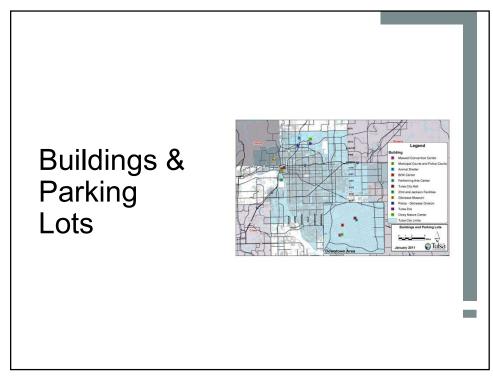
Policies and Practices

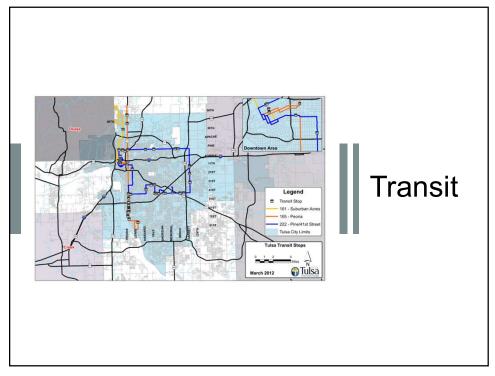
Non-discrimination requirements of Title II

Employment (hiring/firing practices, job descriptions)











Conduct Field Assessments

Field Investigations

- · Extensive photos of site investigations
- · Detailed data collection forms
- Data management / GIS based system

All public facilities should be included

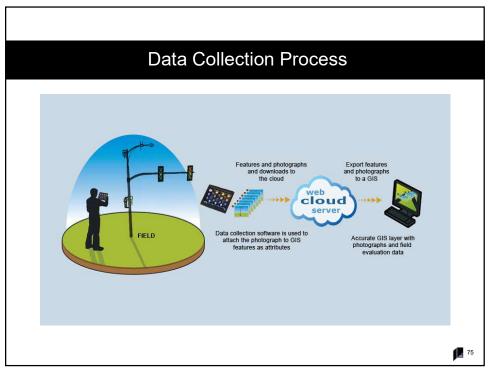
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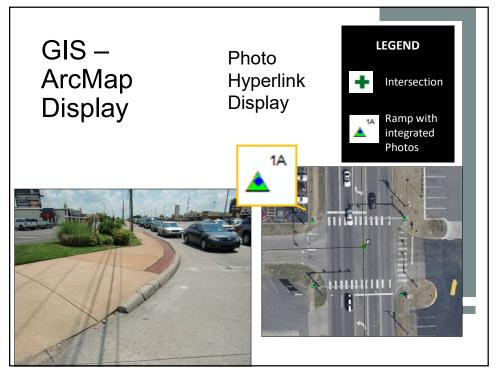
ArcGIS / GPS based Data Collection

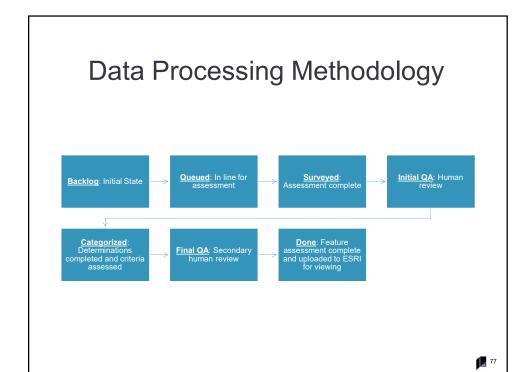
- Integrated data collection system
- · Fully customizable field forms
- Integrated digital video camera
- Field data and photos/videos sync with ArcGIS











Step 6: Approving Schedule and Budget

Schedule actions each year to address barriers

Regularly occurring programs

say \$X each year for X years

Building, resurfacing, renovation projects...others

Prioritization for exterior elements

Government Centers/Transit/Public Services...

Pedestrian Level of Service

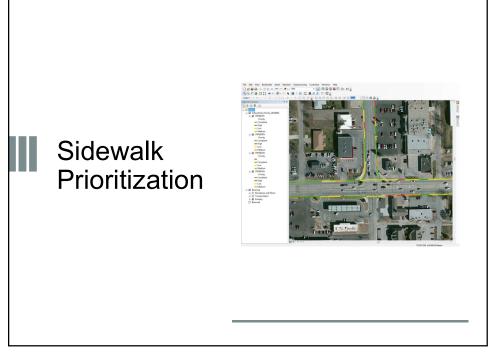
Citizen requests/complaints

Population Density

Presence of Disabled Community

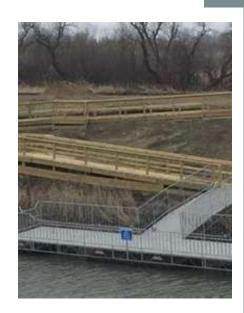
Prioritization Factors Ranking Factors Evaluation Criteria Severity of issue • Where is it? Example Design Are there others? Height of Number of existing operable parts complaints Clear Floor Space • Age of element Age of building/ Signage code On an accessible route Funding availability

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Develop Cost Projections

- Improvement construction costs
- Architectural/Engineering and surveying costs
- Project contingency



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Web Site Accessibility

A Title II entity (and all entities subject to 504 compliance) must make their websites fully compliant with Section 508. This includes:

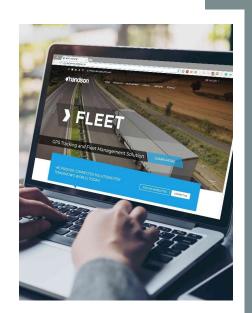
- Descriptive language is required (language should be a text equivalent of the picture)
- · Links PDF documents must have enhancement
- Videos must be captioned

Web Site Accessibility

FONTS:

There are two main concerns:

- Ensuring that default font sizes are not too small
- Ensuring that text can be expanded to 200%



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Web Site Accessibility

FONTS:

12-14 points/pixels for body is generally recommended for body text (depending on audience)

Ensure that default fonts are no smaller than 9 points/pixels.

The WCAG Guidelines recommend ensuring that text can be zoomed to 200%



Don't Forget

Links to documents and .pdfs that are often overlooked.

Get the website evaluated, but make sure it's a complete evaluation. There are a lot of companies willing to "help" with this.

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Step 7: Monitoring the Progress

Use Transition Plan in annual planning cycle

Establish baseline from initial inventory

Transition Plan is a "Living Document"

UPDATE regularly (annually recommended, no more than 4 years)

Develop a tracking system to monitor progress



What about the State Laws?

- · States are given a choice
- Each state can send their version of the standards to DOJ for certification.
- No state can be less restrictive than the Federal laws

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Construction Laws:

- There is no requirement to do a thing to remove barriers until construction activity occurs
- The scope of the project determines what is required to do toward compliance.



Federal Laws:

- Building owners are required to be removing barriers every year until all barriers are removed, regardless of planned construction
- The Department of Justice has initiated the priority for barrier removal
- NOBODY IS GRANDFATHERED!

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Federal Laws:

- The courts will apply a 20% rule to construction projects and accumulate it over time.
- CLOSE ENOUGH IS NOT GOOD ENOUGH!



Federal Laws:

- The courts will apply a 20% rule to construction projects and accumulate it over time
- Close enough isn't good enough!



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2010 ADA and ABA:Compliance **required**March 15, 2012





ADA (Federal) Enforcement

- 100% complaint driven
- · Attorney's fees are built into the law
- · Advance notification is NOT required

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The Federal Process

- A violation is found
- A call is made to the entity
- They ask for the ADA Coordinator
- They ask for the Transition Plan
- · A case is filed and three years are given for resolution



The Private Process

- · A violation is found
- A letter is sent to the owner
- Owner responds ... nothing gets filed (might even get free assistance with the issue)

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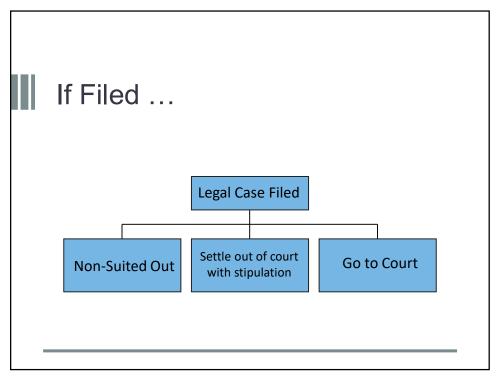
NO RESPONSE?

EITHER:

A second letter will be sent, sometimes by an attorney

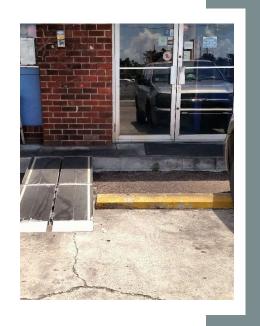
OR

A case is filed



Take Control

Building owners are always held responsible. The building owner determines who else is responsible and should be joined into the case





US Population Statistics

According to the National Center on Aging, as of January, 2011 we are turning 65 at the rate of 10,000 people per DAY and will continue to do so until 2026









Existing Facilities

Undue Burden 28 CFR 35.150(a)(3)

- Based on all resources available for a program
- Claims must be proven and accompanied by a written statement of reasons and signed by the head of the public entity
- What constitutes undue burden will often be decided in courts





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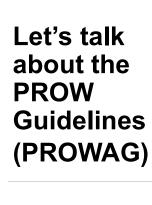
Maintaining Accessibility (28 CFR 35.133)

State & local governments must maintain the accessible features of facilities in operable working conditions

Maintenance examples: sidewalks that are in disrepair; overgrown landscaping, snow accumulation; broken elevator; work zone accessibility (if construction activity affects pedestrian facilities – provide alternate route if more than temp. disruption)











Public Right-of-Way Accessibility Guidelines (PROWAG)

Originally intended to supplement the ADAAG to provide standards specific to public rights-of-way; most recently formatted as a standalone document

Applicable to new construction and alterations (of existing facilities)

Undergoing the rulemaking process (2011 Notice of Proposed Rule Making published w/ updated guidelines)

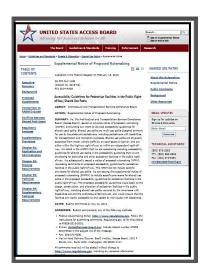






Supplemental Notice of Proposed Rulemaking Public Right-of-Way Accessibility Guidelines (PROWAG)

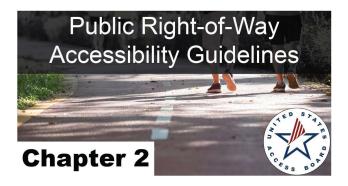
2013 Version incorporates shared use path guidelines into the 2011 PROWAG (web only)



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Rulemaking Update

- Final Rule has been published
- It's been adopted by GSA and most state DOTs
- Waiting for the Department of Justice to adopt



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Way before it was published

FHWA Memo 1/23/06

- Public Right of Way Accessibility Guidelines (PROWAG) –
- "Recommended best practices, and can be considered the state of the practice that could be followed for areas not fully addressed by the present ADAAG standards"

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What Should State and Local Agencies Do?

- Develop Policy
- Work it into your standards
- Educate
- Enforcement at local level



Types of Pedestrian Facilities



Sidewalks



Shared-use Paths



Shoulders

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Types of Pedestrian Facilities



Pedestrian Access Route Pedestrians only



Shared Use Path Pedestrians and bikes

Types of Pedestrian Facilities



Pedestrian Access Route Pedestrians only



Shared Use Path Pedestrians and bikes

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Trail Pedestrian recreation



PAR vs. SUP vs. Trails



Key elements were highlighted

- Crosswalk width
- · On street parking
- · Walking speed and pedestrian signal phase timing
- · Elevators at overpasses and underpasses
- · Same side alternate circulation routes

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Key elements were highlighted

- Cross slope in crosswalks
- · Detectable Warnings
- · Accessible pedestrian signals
- · Round-abouts and round about signalization
- · Alterations vs. maintenance

These issues were addressed in the 2nd draft:

Reference manual on uniform traffic control devices (MUTCD) for crosswalk width

Reduced scoping in on street parking to be consistent with parking lots

Set walking speed at 3.5 fps

Increase vertical access allowances at overpasses and underpasses (ramps, lifts or elevators)

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Modified the technical requirements to be more consistent with MUTCD

Provided relief for maximum cross slope limits in pedestrian cross walks at mid block and through street locations.

Clarified the placement of detectable warnings on curb ramps landings and blended transitions. These issues were addressed in the 2nd draft:

These issues were addressed in the 2nd draft:

Clarified the new construction requirements for APS installation

Limited pedestrian signalization at roundabouts and channelized turn lanes.

Clarified maintenance vs. alterations

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Alterations vs. Maintenance

<u>Alterations</u>

- Open-graded surface course
- Cape seals
- Mill & Fill / Mill & Overlay
- Hot in-place recycling
- Microsurfacing / Thin lift overlay
- Addition of new layer of asphalt
- Reconstruction
- New construction

Maintenance

- Crack filling and sealing
- Surface sealing
- Chip seals
- Slurry seals
- Fog seals
- Scrub sealing
- Joint crack seals
- · Joint repairs
- Dowel bar retrofit
- Spot high-friction treatments
- Diamond grinding
- Pavement patching

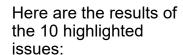


Alteration Requirements

Alteration Type	Address Ramps? *	Address Sidewalks?
Addition of a new layer of asphalt	Yes	No
Cape seals (combo of chip / slurry)	Yes	No
Hot in place recycling (HIPR)	Yes	No
Microsurfacing / thin-lift overlay	Yes	No
Mill & Fill / Mill & Overlay	Yes	No
Reconstruction	Yes	Yes
New construction	Yes	Yes

^{*} Curb ramps are needed wherever a sidewalk or other pedestrian walkway crosses a curb.

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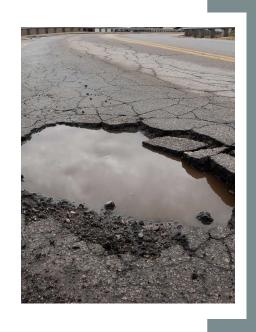


Accessible pedestrian signals (The clear level area in front of the controls may slope consistent with the adjoining pedestrian route)

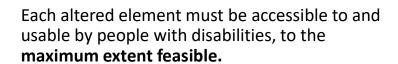


The Reality Is ...

Most funds are used to repair, alter or maintain existing elements. Not build new ones.



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What is "Technically Infeasible"?

With respect to an alteration of a building or a facility, that it has little likelihood of being accomplished because existing structural conditions would require removing or altering a **load bearing member** which is an essential part of the structural frame;

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What is "Technically Infeasible"?

or because other existing physical or **site constraints** prohibit modifications or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements.



NOTE:

Cost is NOT a trigger of infeasibility in alterations!

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Planning is KEY!

- Compliance is measured by the governing standards ...
- ADA
- IBC
- 504
- · Civil Rights Restoration Act
- · State or local codes



Who is subject?

All privately funded places of public accommodation, and state and local government entities are covered by this requirement. Regardless of whether state or local governments directly or indirectly manage or delegate the development of facilities in the public right of way to the private sector, the same obligations apply.

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Physical Constraints

All project will have physical constraints from existing conditions. Know them and plan for the resolution early in the process.

Coordinate efforts with all parties involved in the project



Analyzing Accessibility Alternatives

Several potential solutions may be available, here's a generic two step process to make the decision on accessibility alternatives:

FIRST: Consider using work-around alternatives that won't affect usability for people with disabilities.

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Case Study:

There's a problem placing a compliant curb ramp in a preferred location due to utilities underground.



Case Study:

Consider these options:

- Use an alternate form of the curb ramp (parallel, combination, perpendicular)
- · Identify an alternate location for the ramp
- Widen the crosswalk to include the curb ramp

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Case Study:

Consider these options:

- Borrow space from the parking lane or roadway
- Adjust the horizontal and/or vertical roadway geometries
- Extend the curb ramp through the gutter-pan area
- Raise the roadway surface at the gutter

Case Study:

Consider these options:

- · Lower the curb height
- · Raise the crosswalk
- Add a curb extension to "grab" needed (and often more level) space for pedestrian facilities at corners.

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Case Study:

Consider these options:

- Shield the sides of a ramp with signs, sidewalk furnishings, and setbacks to eliminate the need for space-intensive flared sides: or
- · Ramp a sidewalk down to an intermediate level landing

If Alternatives Don't Work With Project Constraints:

Favor approaches that have less user interruption, such as:

 Modify curb ramp flare space requirements (the flare is not part of the required pedestrian access route) or use returned curbs

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If Alternatives Don't Work With Project Constraints:

- · Construct a single curb ramp that can do the work of two
- Shave millimeters from a landing or decimals from the running or cross slope of a ramp

If Alternatives Don't Work With Project Constraints:

- Use a short length of blended or warped sidewalk that can be replaced during a future improvement to connect to existing undisturbed facilities
- Blend non-conforming pavements in segments that provide as much planarity as possible for the wheelbase of a mobility device

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Be Realistic –Think it through!

- The lip at the bottom of a curb ramp can be hidden by pooling water or other means and can be a danger to a person with a mobility device, whereas:
- The flared side is not part of the required access route so it can be altered with little significance to access.

Project Scope:

- Project Scope defines the purpose of the project.
- Physical constraints further define the scope



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Project Scope:

This new parallel curb ramp on a large-radius suburban corner curves down to the street and is otherwise usable, but the ped-button isn't.

Installation on a signal pole, it is out of horizontal reach range for this pedestrian.



How do you know if you Maximized Accessibility?

An owner may have one idea, the designer another idea and the engineer yet another idea on how to solve an access problem.

What do you choose?

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Whichever provides the MOST access!



REMEMBER:

Someone may not agree:

- You may have to defend any decision you make, even if approved by a local authority.
- Ensure decisions are carefully thought out and documented.

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Suggestions for Consideration:

- Expand the depth of the analysis and think outside the box
- Seek assistance from people with disabilities in the community
- Recognize that the first solution to a problem will not often be the best
- Keep track of everything considered. Document the analysis work, findings, and decisions.

Suggestions for Consideration:

- Select the solution that best balances the needs of all users
- Network with others. Consult with peers in other agencies and firms.
- Attend continuing education classes that focus on accessible design
- Develop, adopt, and use a standard method of design review and approval

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Most Importantly ...

Be prepared to defend your decisions in a potentially adversarial situation.



All Projects, All Types of Funding

- · Plan access features
- · Establish design criteria
- Consult technical information
- · Research products
- Confirm budget
- · Consult technical consultant

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Communication is Key!





Planning the scope of work

- What does the project intend to do?
- What pedestrian accessibility features need to be incorporated?
- · Where are the project limits?
- How will the new intersect with the existing conditions?

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Planning the scope of work

- · How will the project be funded?
- · How realistic is the budget?
- · What citizens with disabilities are in the area?
- Have they made any complaints known?



Planning the scope of work

- Wheelchair users are safer when all four wheels are on the ground, smooth transitions avoid dangerous conditions.
- Steep slopes and cross slopes are also a danger to those with mobility aides or bad balance
- · Heaving or broken sidewalks are also dangerous

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Best Practices



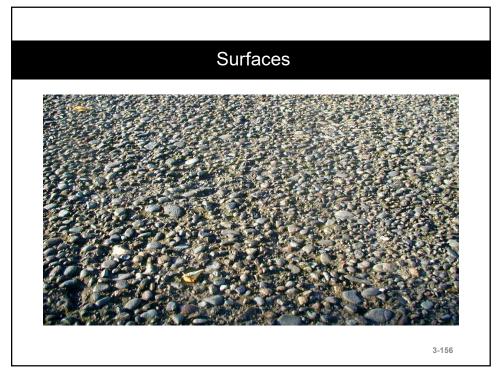
- Crosswalks provide unmistakable routes
- Signage can help avoid a lot of problems.

Remember:

ADA requires accessible routes to be maintained in an accessible condition



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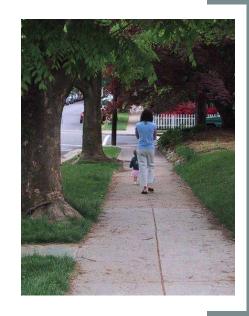
Surfaces

Surface requirements:

- Firm, stable, and slip-resistant
- No large openings or gaps

Desired:

 Smooth and free of rough textures



3-157

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Surfaces



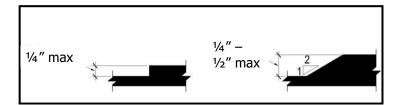
Properly installed and well-maintained brick can work.

3-158





Pedestrian Access Route (PAR)

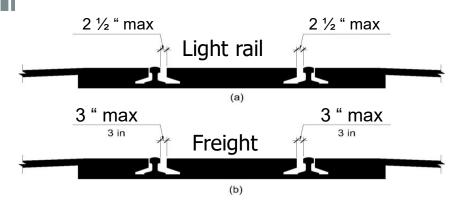


Changes in level provisions – does not apply to grade breaks

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Pedestrian Access Route (PAR)



Flange way gap provision for light rail and freight rail at pedestrian rail grade crossing

Pedestrian Access Route





Horizontal openings no more than $\mbox{\em 1}\mbox{\em 1}$ inch in the direction of travel

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Pedestrian Access Route (PAR) Width



Width exclusive of the curb - 4 feet minimum

Pedestrian Access Route Width

Watch for obstructions to the required path of travel.



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Pedestrian Access Route





Continues around all obstructions

Pedestrian Access Route (PAR) Running slope

Running slope - can follow adjacent roadway grade



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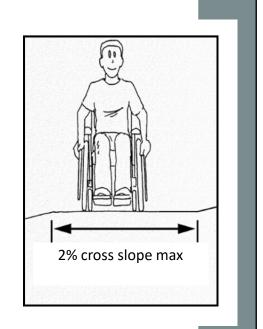
Pedestrian Access Route (PAR) Running slope

What it looks like if the building guidelines are applied



Pedestrian Access Route (PAR) Cross Slope

- 0% best for wheelchair users
- Some slope needed for drainage
- Max cross slope 2%
- Design accordingly



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Pedestrian Access Route (PAR)

Cross Slope: 2% maximum





Pedestrian Access Route(PAR)

If you have the space this can work



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Ramps

• Slope: 1:12 max.

Cross slope: 1:48 max.

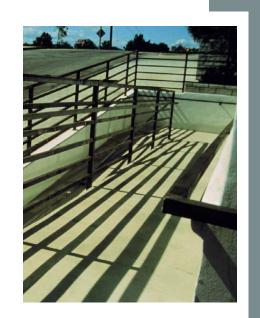
· Clear width: 36" min.

• Rise: 30" max.

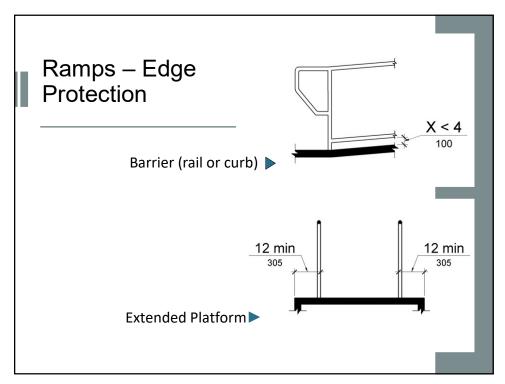
Level landings

Handrails (both sides)

Edge protection

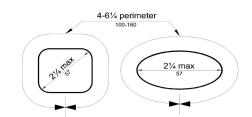


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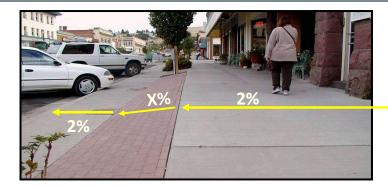
Handrails

- Knuckle clearance: 1
 ½" min. (not absolute)
- Diameter: 1 ¼" 2" (instead of 1 ½" max.)
- Applies to outer diameter (clarification)
- Circular & noncircular cross sections



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Pedestrian Circulation



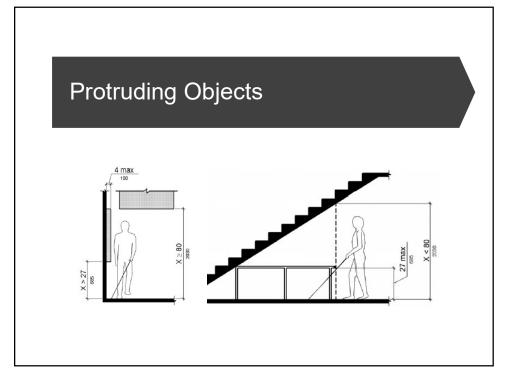
Slope determines requirements

Pedestrian Circulation



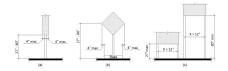
Watch overhead requirements for the entire route

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Pedestrian Circulation Area

- Objects between 27" and 80" may not protrude more than 4"
- Post mounted objects must not protrude more than 4" beyond the base

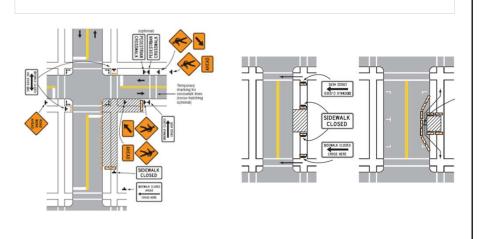


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Alternate
Pedestrian
Access Routes
and Work Zones

- Reference to MUTCD Part 6
- Temporary Traffic Control







Alternate PAR

Pedestrian delineation with a continuous detectable edge



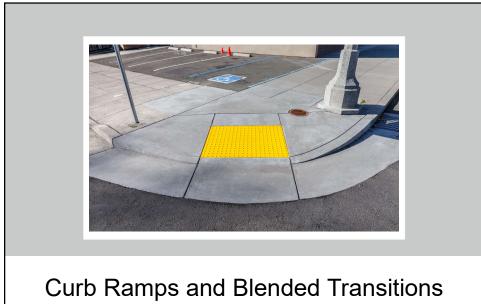


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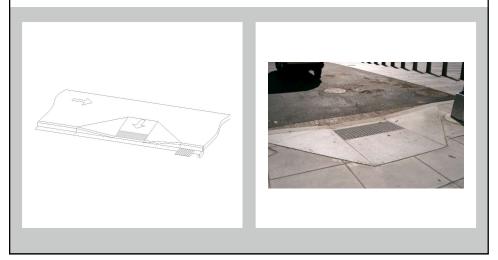
Alternate PAR

Pedestrian delineation with a continuous detectable edge



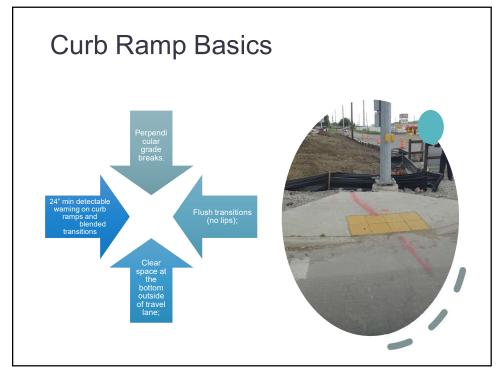
Perpendicular Curb Ramp

Perpendicular to the curb or street being crossed



Curb Ramp Basics - 4' minimum width - 1:12, or 8.3%, max running slope (with length limit as exception to slope limit); - 1:48, or 2.08%, max cross slope with exceptions for some crossings; - Turning space at the top of perpendicular curb ramp and the bottom of a parallel curb ramp;

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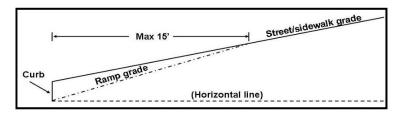
Counter slopes and level changes are a liability



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Curb Ramps



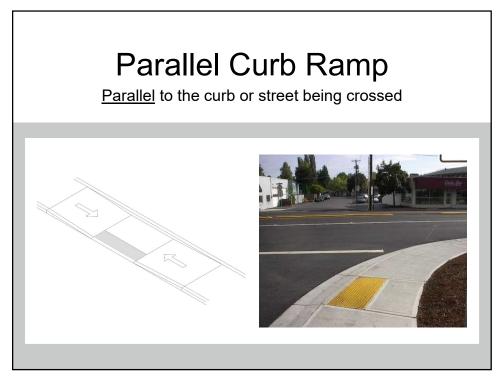
- Maximum curb ramp slope 1:12 (8.3%)
- When 'chasing grade,' the curb ramp length is not required to exceed 15 feet.
- · Consistent slope

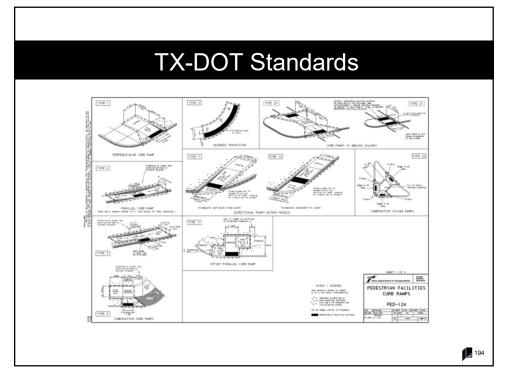
191

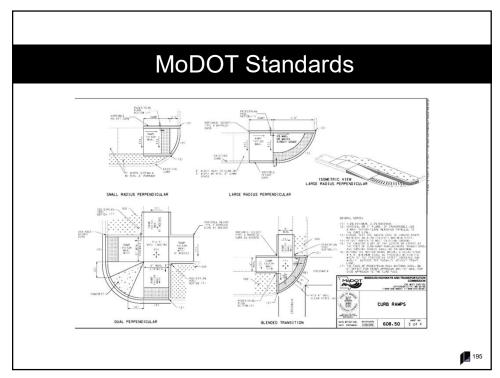
Curb Ramps

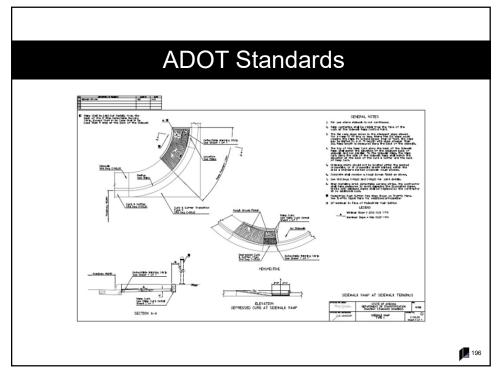
Turning space is required at the top of curb ramps for changing direction (4' x 4' min)

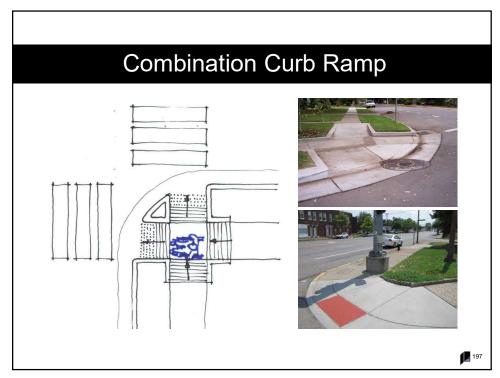


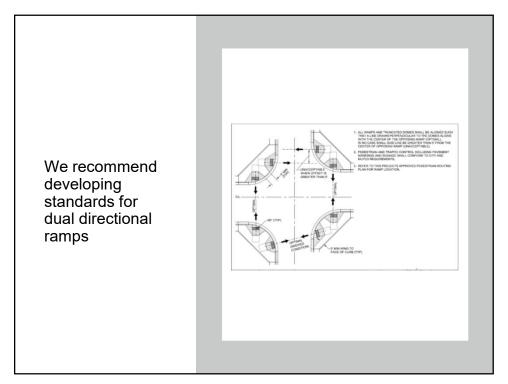




















Blended Transition

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Steps at Corner:
Before

Sometimes it's tough!







Effective November 23, 2013







New construction and alterations

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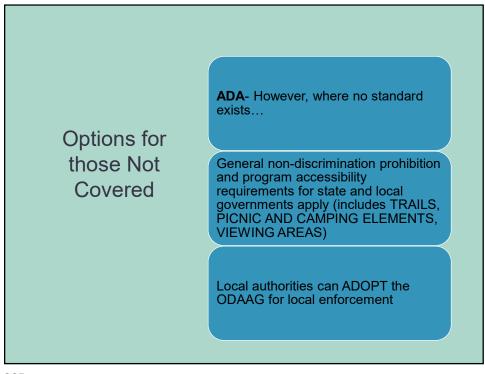
Covered

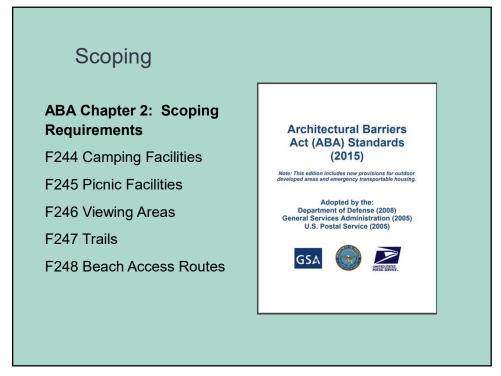
Facilities constructed or altered by:

- Federal agencies
- Non-federal entities constructing facilities on federal land on behalf of federal agencies e.g., a concession contract, partnership agreement, or similar arrangement

Not Covered

- Facilities subject to ADA
- ADA facilities built or altered with Federal grants and loans (ABA)





Technical Requirements

ABA Chapter 10: Recreation Facilities

- 1011 Outdoor Constructed Features
- **1012 -** Parking Spaces within Accessible Camping Units and Picnic Units
- 1013 Tent Pads and Tent Platforms
- 1014 Camp Shelters
- 1015 Viewing Areas
- 1016 Outdoor Recreation Access Routes
- **1017 Trails**
- 1018 Beach Access Routes
- 1019 Conditions for Exceptions

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Conditional Exceptions

- · Apply on a provision-by-provision basis
- Where full compliance with a technical provision is not possible because of the limitations and constraints included in the conditional exceptions..."extent practicable"

Conditional Exceptions

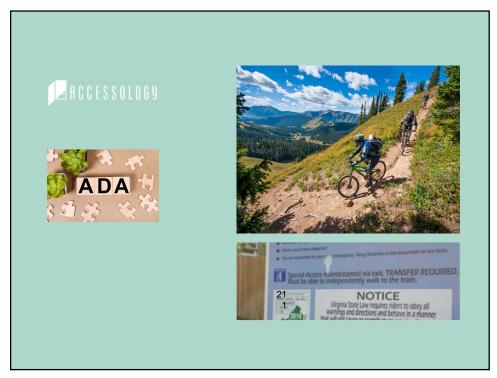
When applying conditional exceptions to portions of the trail results in exempting the entire trail or beach access route from the technical provisions...

Notify the Board where an entire trail or beach access route is exempted

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ADA "Accessible Route"

How does it apply?



Categories of Disability

- Autism
- ADHD
- Blind/Low vision
- Deaf/Hard of Hearing
- Dementia

- Mental Illness
- Intellectual Disability
- Learning Disability
- Physical Disabilities

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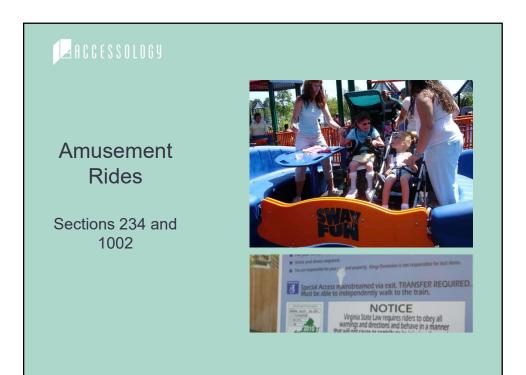
Federal Law (ADA):

Don't forget the 20% rule for construction projects



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Amusement Rides

Floor and ground surfaces

Turning space (5ft or T-turn)

Slope not to exceed 2%

Vertical discontinuities (5/8")

Gaps (not to exceed 3")

Clear floor space requirements

Protrusion exceptions



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Amusement Rides

Must have one of the following per ride:

Wheelchair space - OR -

Ride designed for transfer

Use of transfer device

Which one is entirely your choice





Recreational Boating Facilities

Sections 235 and 1003



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Recreational Boating Facilities

- Accessible boats slips are required according to the table in Section 235.2. If the number of slips is not clear, each 40 feet of boat slip edge along the perimeter of the pier shall be counted as one boat slip.
- Accessible boat slips shall be dispersed between different types of slips provided.
- Number of boarding piers at boat launch ramps required to be accessible.



Boarding Piers at Boat Launch Ramps

Where boarding piers are provided at boat launch ramps, at least 5 percent, but no fewer than one, of the boarding piers shall comply with 1003.3.2.



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Gangway Slope – Connecting floating facilities



Design for 1:12 maximum slope OR provide at least an 80 foot gangway

Gangway Small Facilities

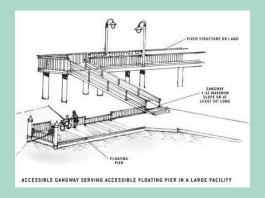


Less than 25 boat slips, the slope of the gangway may exceed 1:12 (8:33%), if the gangway is at least 30 feet long

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Accessible Gangway

- Accessible routes serving floating piers/platforms
- Use boating gangway exceptions
- Design gangway to 1:12 OR provide up to a 30 ft. gangway



Transfer Methods

Not required by the standards



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Fishing Piers and Platforms

Sections 237 and 1005



Fishing Piers and Platforms

- Served by an accessible route
- When a railing is provided, at least 25% of the railing must be no higher than 34"
- Disperse lower railing areas

Exception: where a guard is provided which complies with ICC/IBC

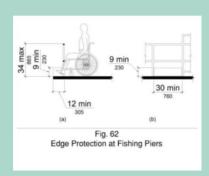


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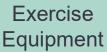
225

Fishing Piers and Platforms

- Edge protection where railings are provided
- 2 inch minimum
- 30 inches x 48 inches clear space
- At least one maneuvering space



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Sections 235 and 1003



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Exercise Machines and Equipment

At least one of each type of equipment offered must have an accessible route to it and clear floor space serving it



