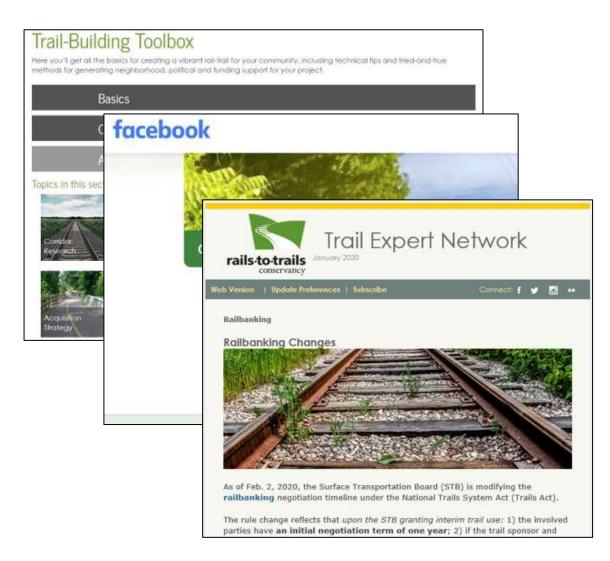


#### Join the Trail Expert Network (TEN) today



- Exclusive newsletter
- Grant Announcements
- Trail-Building Toolbox
- Webinar library
- Peer-to-peer learning on TEN Facebook group

Join at <a href="rtc.li/TEN">rtc.li/TEN</a>



#### Juliet Shoultz



Juliet Shoultz joined the Access Board's Office of Technical and Information Services in 2017 as a Transportation Systems Engineer. She has fifteen years of experience in transportation planning and engineering for state government. Prior to working at the Access Board, she worked as the Americans with Disabilities Act (ADA) Policy Engineer at the Illinois Department of Transportation, where she led development and implementation of the department's ADA transition plan, and served as the department's accessibility expert, providing technical assistance and reviewing plans for state projects. She previously served as a member of the Illinois Accessibility Code Revision Committee, which was tasked with revising the Illinois Accessibility Code. Shoultz has been an active participant as a member of a National Cooperative Highway Research Program (NCHRP) panel and Transportation Research Board (TRB) standing committees.

#### Christopher Douwes



Christopher Douwes is a Community Planner with the Federal Highway Administration (FHWA) in Washington DC. He has managed the Recreational Trails Program (RTP) since 1992, Transportation Enhancement activities since 2003, Transportation Alternatives since 2012, and has assisted with Bicycle and Pedestrian Activities since 1992. He manages contracts for research, technology development, technical assistance, and training for trail and bicycle and pedestrian-related activities. Christopher received his Masters of Science in Transportation from Northwestern University in 1990.



#### Matt Ludwig



Matt is a licensed civil engineer and certified planner with over 14 years' experience on a wide variety of transportation projects, which includes specialized expertise in the planning, design, and management of active transportation facilities. His experience includes trails and greenways, bicycle lanes, complete streets, urban bicycling and pedestrian networks, Vision Zero, and first/last mile solutions. Matt leads the Active Transportation planning and design practice in NV5's Philadelphia office.





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# Accessible Trails and Shared Use Paths

## Trails



#### **Key Elements of Trails**

- Designed for the "recreation experience"
- Does not connect elements and spaces on a site
- Generally, includes a trailhead
- Has limited to no transportation function



#### **Architectural Barriers Act**

#### **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

#### Architectural Barriers Act (ABA) Standards (2015)

Note: This edition includes new provisions for outdoor developed areas and emergency transportable housing.

Adopted by the:
Department of Defense (2008)
General Services Administration (2005)
U.S. Postal Service (2005)







#### Covered

#### **Not Covered**

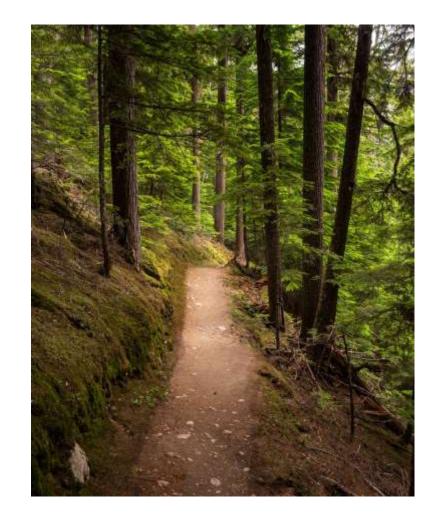
- Facilities constructed or altered by
  - Federal agencies
  - Non-federal entities constructing facilities on federal land on behalf of federal agencies e.g., a concession contract, partnership agreement, or similar arrangement

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

#### **Trail Width**

■36 inches minimum width

5ft x 5ft passing space every1000ft if trail width is less than60 inches



### Trail Slope/Grade

Running Slope of Trail Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20	1:12	200 feet (61 m)
1:12	1:10	30 feet (9 m)
1:10	1:8	10 feet (3050 mm)

#### **Other Trail Technical Requirements**

- Cross slope for trails constructed of concrete, asphalt, or board 1:48 max.
  - Otherwise 1:20 max.
- Surface must be firm and stable

 Gates and barriers – clear width, gate hardware operable parts



#### **Tread Obstacles**

- Measured vertically to the highest point
- ■If trail surface is constructed of concrete, asphalt, or board ½ inch max
  - Otherwise 2 inches max

■Openings – ½ inch maximum

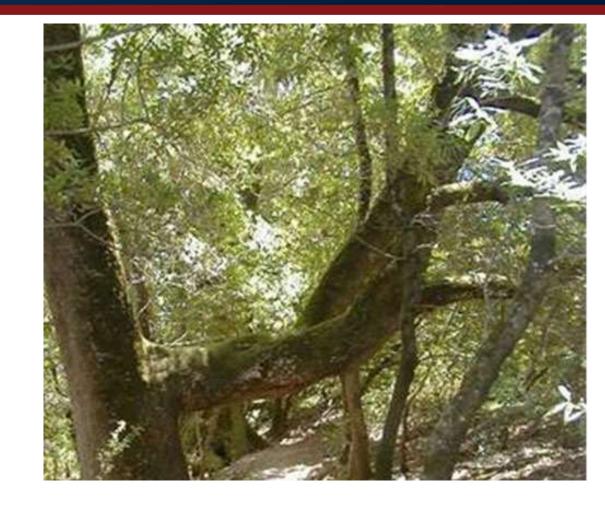


#### **Protruding Objects**

 Constructed elements on trails (ex. Signs & other post mounted objects)

Resting intervals and passing spaces

**■**Compliance with 307



#### Signage

#### Required information

- Length of the trail or trail segment
- Surface type
- Tread width (typical & minimum)
- •Running and cross slope (typical & maximum)



#### **Trailheads**

- Outdoor space developed to serve as an access point to a trail
- Not a junction of two or more trails where no other access point is provided
- 20% of each type of outdoor constructed feature provided within trailhead to be accessible



#### **Conditional Exceptions**

Compliance is not practicable due to terrain

 Compliance cannot be accomplished with the prevailing construction practices





#### **Conditional Exceptions**





- Compliance would fundamentally alter the function or purpose of the facility or the setting
- Compliance is precluded by the:

   Endangered Species Act;
   National Environmental Policy Act;
   National Historic Preservation Act;
   Wilderness Act; or
   Other Federal, State, or local laws
   The Compliance is precluded by the:
   Endangered Species Act;
   National Environmental Policy Act;
   National Historic Preservation Act;
   Wilderness Act; or
   Other Federal, State, or local laws
   Other Federal
   Preservation Act;
   Other Federal
   Other Federa

#### **Conditional Exceptions**

Apply on a provision-by-provision basis

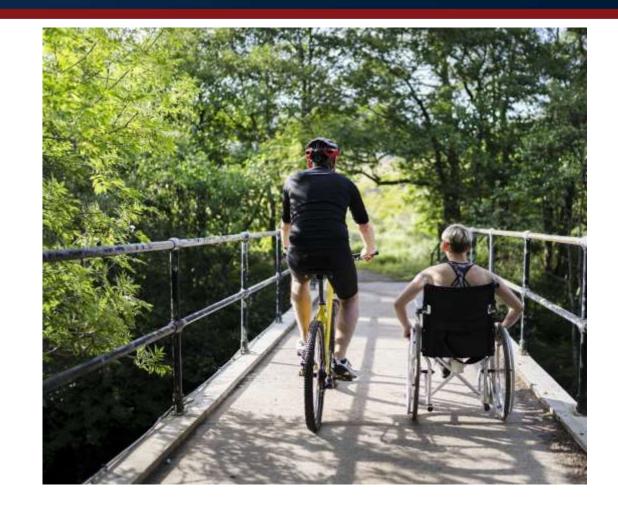
•Where full compliance with a technical provision is not possible because of the limitations and constraints included in the conditional exceptions... "extent practicable"

### Shared Use Paths



#### **Key Elements of Shared Use Paths**

- Intended for multi-use
- Bicycle/transportation focus
- Machined, layered surface (improved)
- Located in either an "independent corridor" or public right-of-way



#### **PROWAG**

■ Board working to finalize Public Right-of-Way Accessibility Guidelines (PROWAG) — aiming to complete rule Fall 2022

Once adopted and implemented as enforceable standards, will apply to the construction and alteration of facilities covered by the ADA, the ABA, and the Rehabilitation Act (Section 504)

#### **Shared Use Path width**

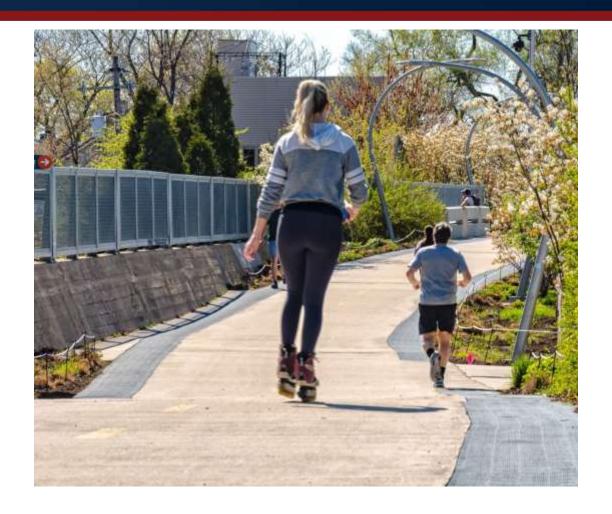
PROWAG does not specify a minimum path width

However, entire path width must meet accessibility requirements

Passing space every 200ft if shared use path width is less than 5ft

## Grade of Shared Use Path located within the Right-of-Way

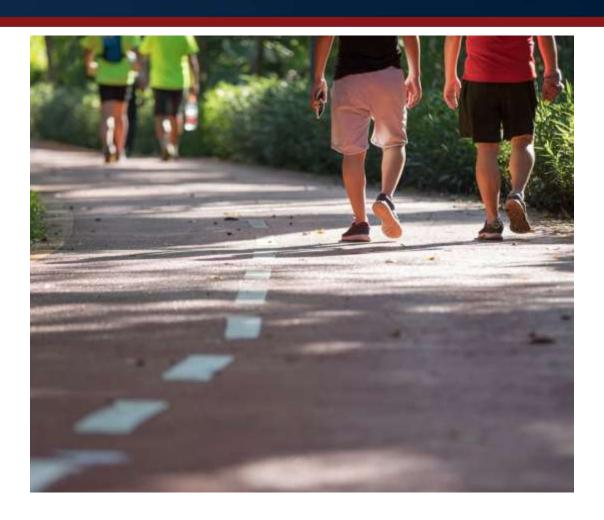
Pedestrian access routes located within street right-of-way shall not exceed the general grade established for the adjacent street.



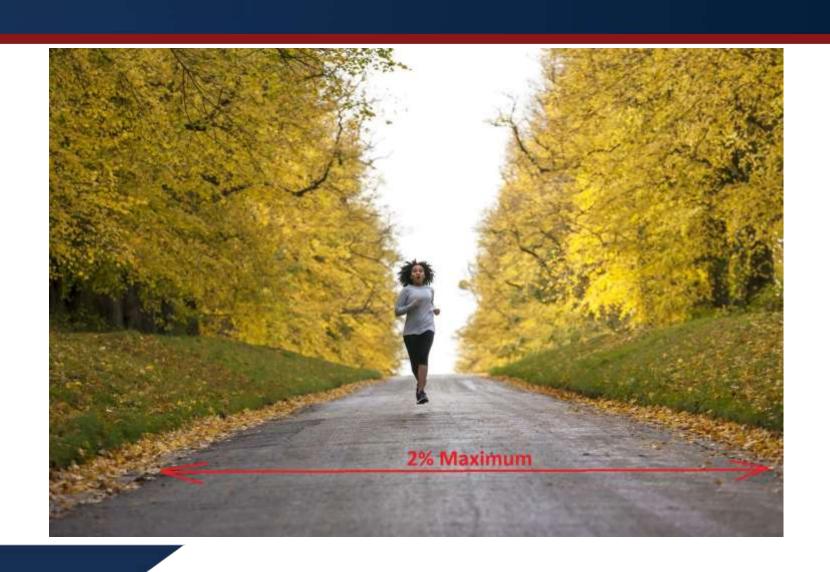
## Grade of Shared Use Path located outside the Right-of-Way

Where pedestrian access routes are <u>not</u> contained within a street right-of-way

Grade: 5 % max.



#### **Shared Use Path Cross Slope**



## Cross Slope Exception at Signalized Intersection

 Shared use path pedestrian street crossings without yield or stop control

Cross slope: 5% max



#### Cross Slope Exception at Midblock Crossing



 Shared use path midblock pedestrian street crossings
 Cross slope can equal street or highway grade

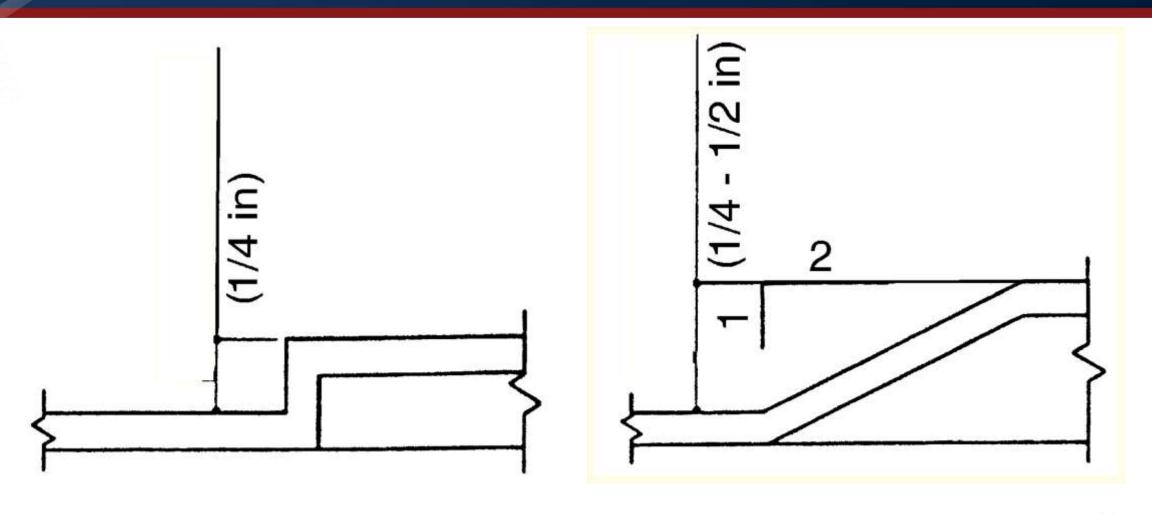
#### **Shared Use Path Surface**

- Firm
- Stable
- Slip resistant



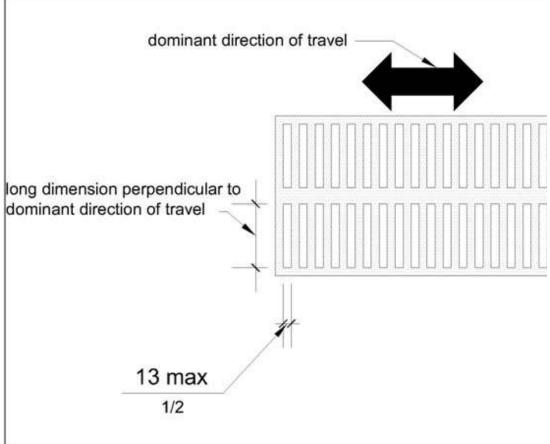


### **Changes in Level**

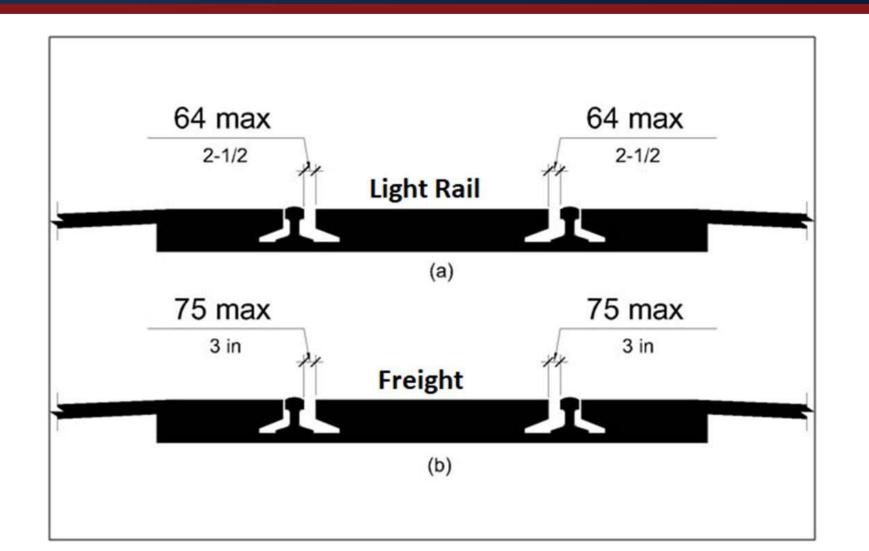


#### **Horizontal Openings**

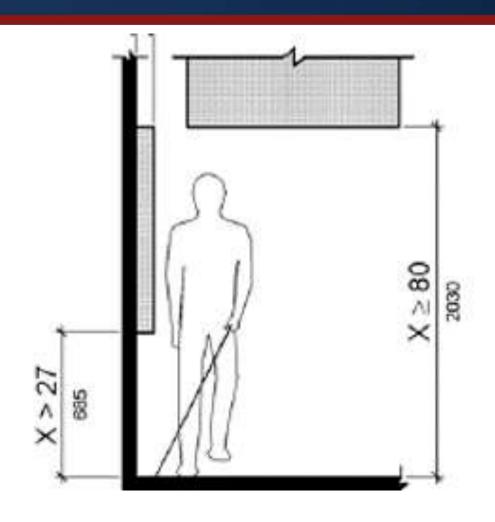


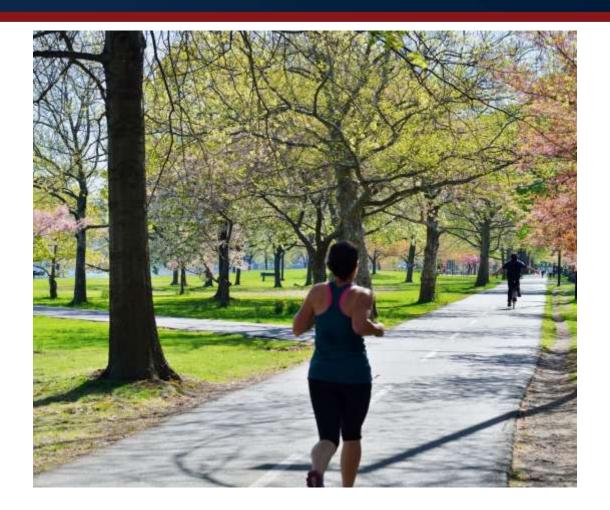


### Flangeway Gaps



### **Protruding Objects**





#### **Curb Ramps at Shared Use Paths**



Curb ramp must extend full width of a shared use path

# **Physical Constraints**

Where compliance with grade requirements is not feasible due to:

- Existing terrain or infrastructure
- Right-of-way availability
- Notable natural feature, or similar existing physical constraints

Compliance is required to the extent practicable.

# **Regulatory Constraints**

Where compliance with grade requirements is precluded by federal, state, or local laws the purpose of which is to preserve

- Threatened or endangered species
- The environment
- Archaeological, cultural, historical, or significant natural features

Compliance is required to the extent practicable.



Accessible Pedestrian Trails and Shared Use Paths full length webinar is archived at

https://www.accessibilityonline.org/ao/archives/



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# Accessibility on Rail-Trails and Other Shared-Use Paths

Christopher Douwes, Community Planner Federal Highway Administration March 4, 2022





#### **U.S. Department of Transportation Priorities**

- Safety
- Climate resilience
- Equity
- Economic strength
- Transformation



Not every generation gets to literally build anew and shape its own future, but the generations living today in America have that chance. This is a season for thinking big about infrastructure.

4:09 PM · Mar 22, 2021 · Twitter Web App



# **Accessibility Guidelines for Trails**

- Building and Sites
- Public Rights-of-Way
- Shared Use Paths
- Outdoor Developed Areas
- Recreation Facilities





## **Transportation Alternatives**

- Fact Sheet: <a href="https://www.fhwa.dot.gov/bipartisan-infrastructure-law/ta.cfm">https://www.fhwa.dot.gov/bipartisan-infrastructure-law/ta.cfm</a>
- About \$14.6 billion, nearly 40,000 projects since 1992 (including previous Transportation Enhancements)
- Funds: 10% of Surface Transportation Block Grant Program (STBG): ~\$1.4 billion per year (was \$850 million)
  - Up to \$84.16 million for the Recreational Trails Program
- Competitive project selection process (State and large MPO)
- TA projects are eligible for Surface Transportation Block Grant Program (STBG) (~\$14 billion per year)
- Project sponsors are encouraged to use **Youth Corps**.



## **Transportation Alternatives**

#### **Eligible Projects**

#### Must relate to surface transportation.

- Pedestrian and bicycle facilities and related projects, including rail trails.
- Construction of turnouts, overlooks, and viewing areas.
- Community improvement activities, including-
  - inventory, control, or removal of outdoor advertising;
  - historic preservation and rehabilitation of historic transportation facilities;
  - vegetation management practices in transportation rights-of-way to improve roadway safety,
     prevent against invasive species, and provide erosion control; and
  - archaeological activities relating to impacts from implementation of a transportation project.
- Environmental mitigation activity to:
  - Address stormwater management, control, and water pollution prevention
  - Reduce vehicle-caused wildlife mortality or to restore and maintain connectivity among terrestrial or aquatic habitats.
- Recreational trails program projects
- Safe Routes to School projects
- Vulnerable Road User Safety Assessment



# Transportation Alternatives Annual Report

- Project applications and dollars requested
- Project selections and dollars requested
- Locations of selected projects
- https://www.fhwa.dot.gov/environment/transportation\_alternatives/annual\_reports/
- Rails-to-Trails Data: <a href="https://www.railstotrails.org/resource-library/resources/trade-fy20/">https://www.railstotrails.org/resource-library/resources/trade-fy20/</a>

FY 2019-2020 Transportation Alternatives Report National Summary

	2019	2020
Total TA Projects Applications Received	6,835*	4,667**
State Aggregate Cost of TA Project Applications	\$3,619,305,270.23	\$4,400,188,505.31**
Total TA Projects Selected	4,784*	1,956
State Aggregate Cost of All Selected TA Projects	\$918,069,407.31	\$591,903,258.11

<sup>\* 2019:</sup> Includes 2,000+ North Carolina curb ramp projects

<sup>\*\* 2020:</sup> California received applications for multiple years of projects but did not select projects until FY 2021.





- Provides funds to the States to develop and maintain recreational trails for all trail uses.
- Represents a portion of the \$281 million in Federal motor fuel excise tax paid by OHV users (including snowmobilers).
- Project sponsors are encouraged to use <u>Youth Corps</u>.





#### **Funding**

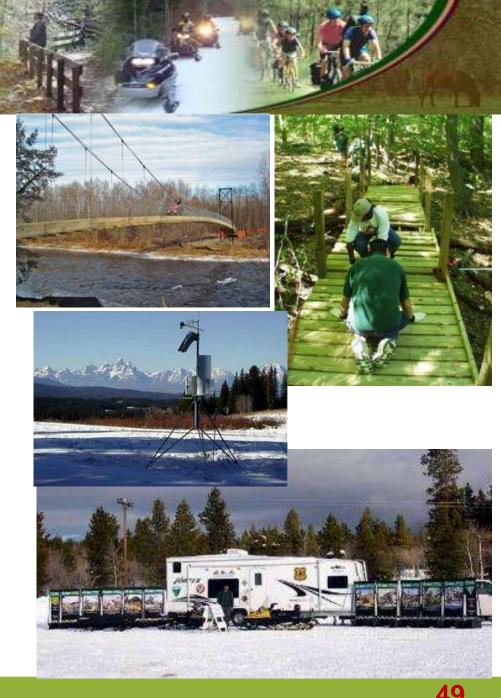
- Up to \$84.16 million per year.
- States may opt out (funds then remain TA funds)
- Usually administered through a State resource agency.
- States solicit and select projects for funding.
- https://www.fhwa.dot.gov/environment/recreational trails/rtpstate.cfm





### **Eligible RTP Projects**

- Maintain and restore existing trails (and bridges).
- Develop and rehabilitate trailside and trailhead facilities.
- Purchase and lease trail construction and maintenance equipment.
- Construct new trails (limits on Federal lands).
- Acquire easements or property for trails (willing seller only: Condemnation is prohibited).
- Trail assessments for accessibility and maintenance.
- Trail safety and environmental protection education.
- State administrative costs.
- RTP projects also eligible under TA Set-Aside and STBG.





#### **Recreational Trails Program Annual Report**

https://www.fhwa.dot.gov/environment/recreational trails/

• \$1.5 billion for 26,500 projects since 1993

#### **Recreational Trails Program Database**

- More than 26,500 project examples
- Searchable by State or project type
- See <a href="http://recreationaltrailsinfo.org/">http://recreationaltrailsinfo.org/</a>

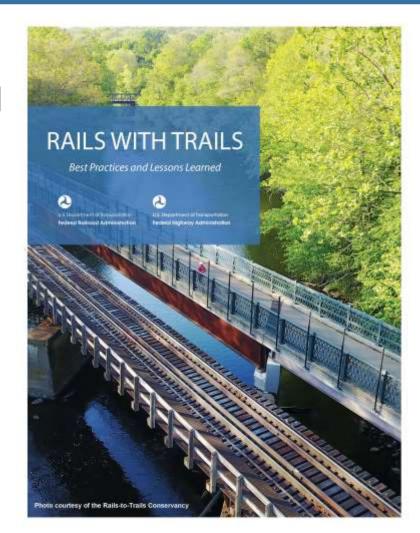




#### **Trail Research**

#### **Recent and Ongoing Research**

- Rails-with-Trails: Best Practices and Lessons Learned
- Ebikes
- Trails and Resilience
- Tribal Development of Trails
- Trails as Resilient Infrastructure



https://www.fhwa.dot.gov/environment/
recreational\_trails/publications/rwt2021/



## Youth Corps and Workforce Development

- DOT encourages States to have contracts and cooperative agreements with qualified Youth Service and Conservation Corps.
- Corps work on Transportation Alternatives projects, trails, pedestrian and bicycle projects, safe routes to school, and byways.
- Corps provide workforce development training.
- Agencies can sole source contracts and cooperative agreements to qualified Corps.
- https://www.fhwa.dot.gov/environment/transportation\_alternatives/guidance/youth\_ workforcedev\_2018.cfm
- The Corps Network: <u>Trails and Transportation</u> webpage







#### Contacts

FHWA Website: <a href="https://www.fhwa.dot.gov/bipartisan-infrastructure-law/">https://www.fhwa.dot.gov/bipartisan-infrastructure-law/</a>

Project Sponsors: Contact your State TA or RTP manager.

States: Contact your FHWA Division office.

- Transportation Alternatives: <u>www.fhwa.dot.gov/environment/transportation\_alternatives/</u>
  - State TA Manager contacts
- RTP: www.fhwa.dot.gov/environment/recreational\_trails/
  - State RTP Administrator contacts

National TA and RTP oversight: Christopher Douwes, Community Planner Transportation Alternatives Recreational Trails Program <a href="mailto:christopher.douwes@dot.gov">christopher.douwes@dot.gov</a> 202-366-5013

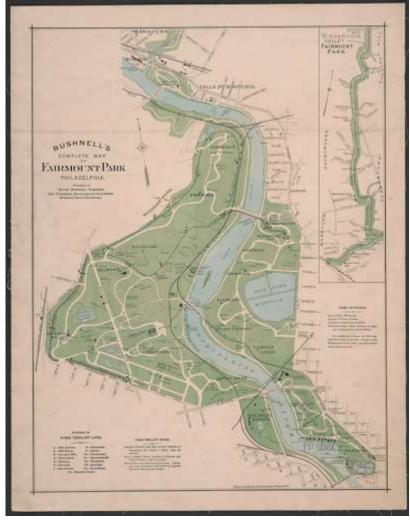




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# Martin Luther King Jr. Trail

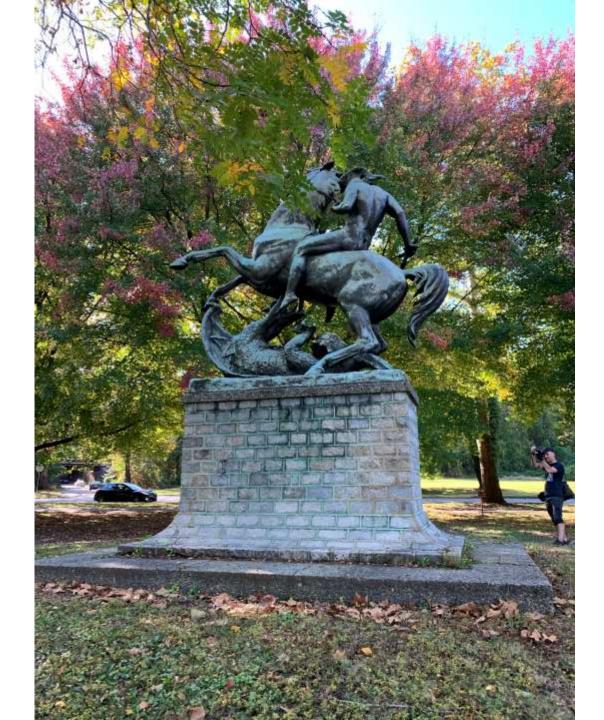


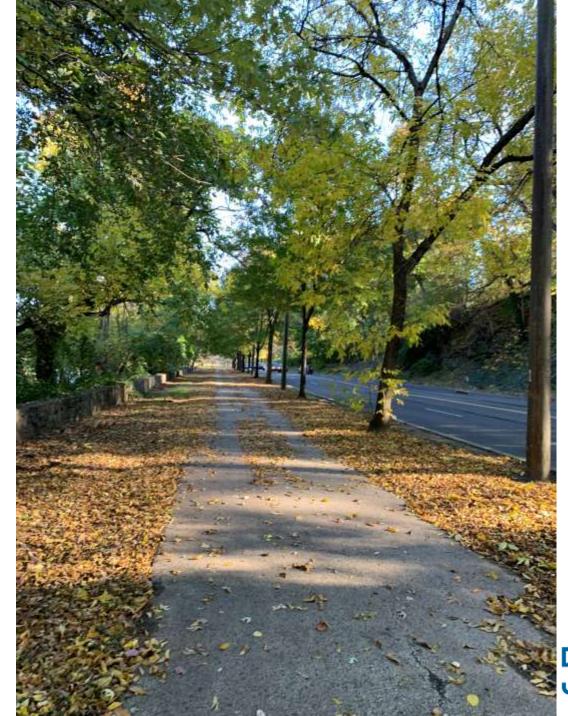


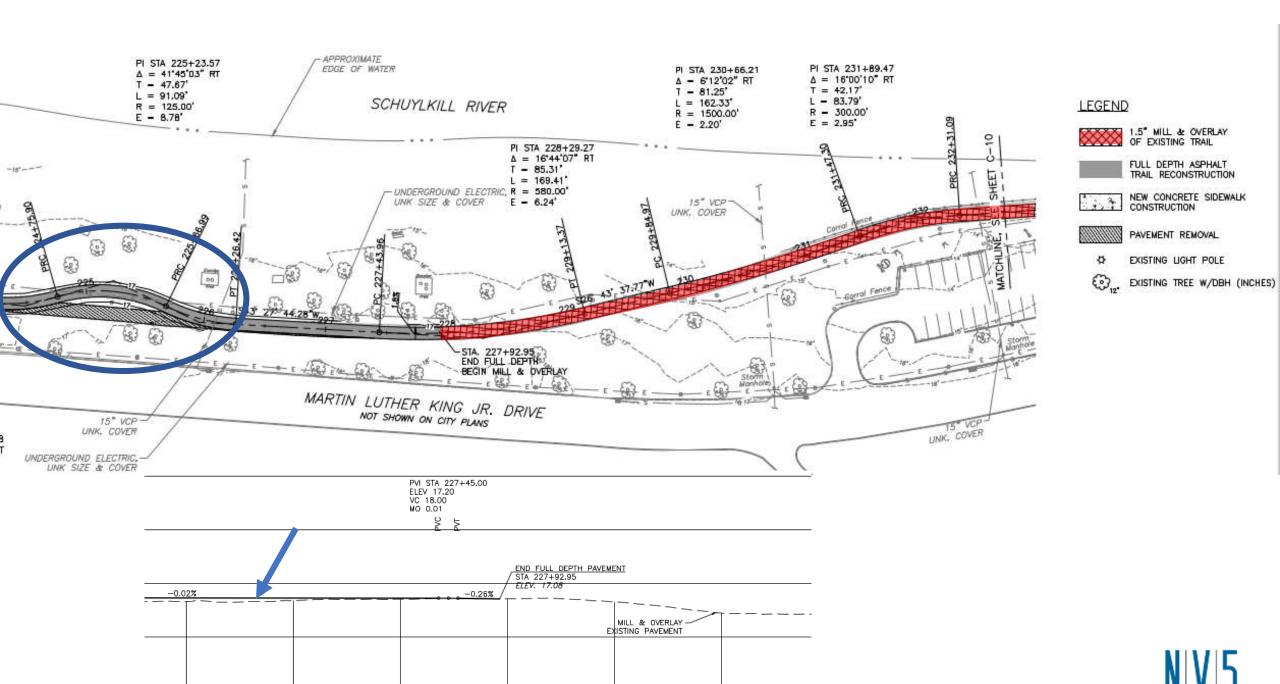












230+00

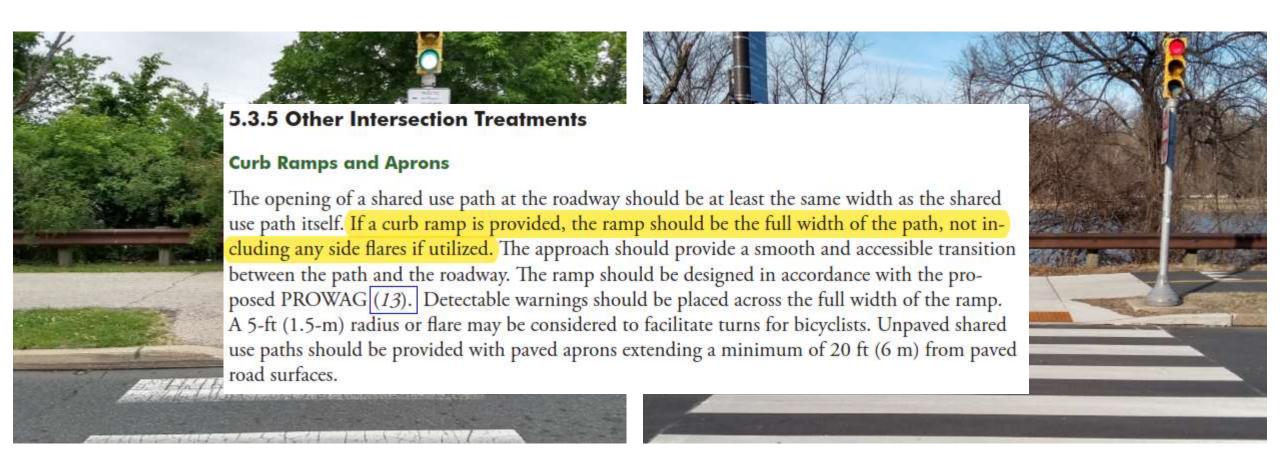
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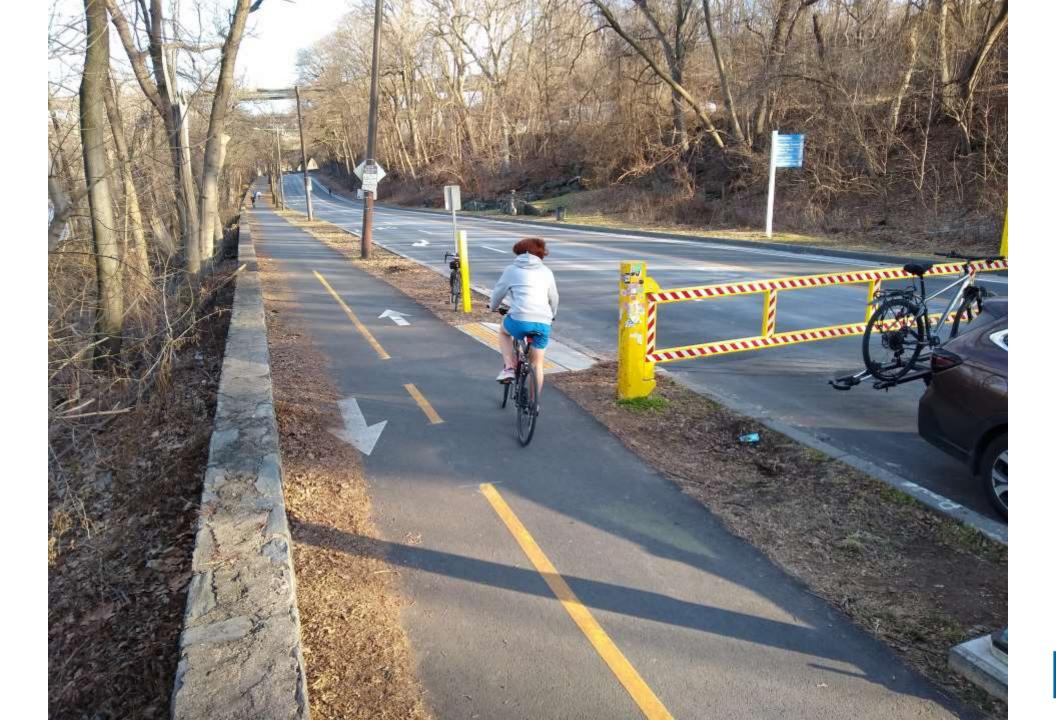












#### MLK Drive Trail Project Details

- Required agency coordination between Philadelphia Parks & Recreation Department and Philadelphia Streets Department
- Total cost: \$1.4 million
- Funded by:
  - City of Philadelphia
  - PA Dept. of Conservation and Natural Resources
  - PA Dept. of Community and Economic Development
  - Delaware Valley Regional Planning Commission Regional Trails Program (William Penn Foundation)





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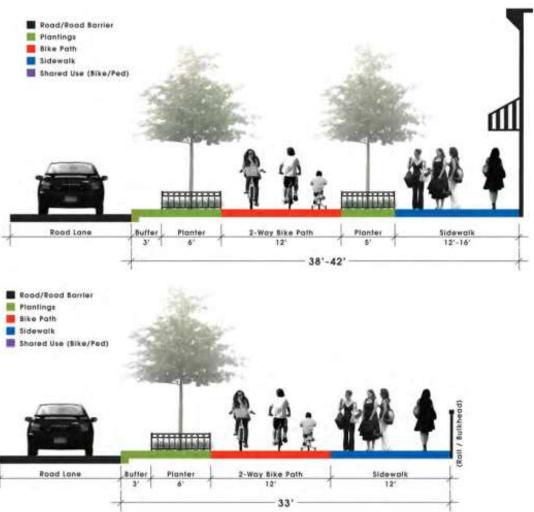














### Elements of Design

- Separation between bikeway and sidewalk
- Controlled pedestrian crossings of bikeway
- ADA Ramps
- Vehicular parking
- Driveways/signalized intersections
- Entrances to buildings and public spaces



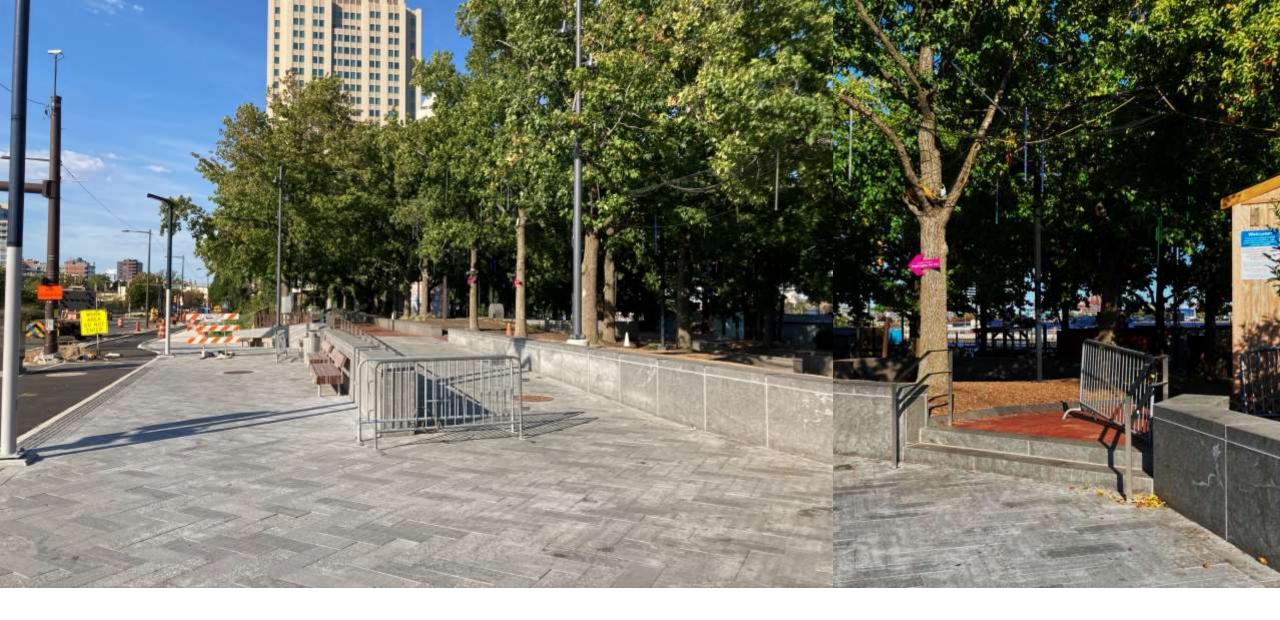












#### Questions?



Juliet Shoultz

Shoultz@Access-Board.gov



Christopher Douwes

Christopher.Douwes@dot.gov



Matt Ludwig matt.ludwig@nv5.com





Share your examples of trails prioritizing accessibility in design, in amenities and in offering inclusive events.

Email us at <u>railtrails@railstotrails.org</u>



## Thank You!



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