

BICYCLE AND PEDESTRIAN ADVISORY COMMITTEE

North Central Texas Council of Governments Virtual Teams Meeting May 19, 2021 2:00 p.m. - 4:00 p.m.

AGENDA

2:00 – 2:05 (5 min)	Nelcome – Introductions Discussion of the February 24, 2021 BPAC meeting summary, as necessary.	Kathy Nelson, Chair, City of Grapevine		
2:05 – 2:30 (25min)	I DIJULIA ACTIVITIES for BIKE Month in May - Mary Worthington IJULIA			
2:30 – 2:50 (20 min)	3. TxDOT Interim Guidance for Design Practices to Accommodate Bicycles An overview of the Texas Department of Transportation interim guidance for bicycle facilities until such guidance is formally incorporated in TxDOT's Roadway Design Manual (RDM), including planning principles, context considerations, selection guidance, and more.	Kenneth Mora, TxDOT		
2:50 – 3:05 (15 min)	4. Comprehensive Accessibility Program (TCAP) An overview of the TxDOT Comprehensive Accessibility Program (TCAP), the effort to identify and prioritize ADA noncompliant pedestrian facilities in the State Right of Way. The TCAP is one piece of the overall Department-wide ADA Transition Plan currently under development by the Office of Civil Rights.	Becky Byford, TxDOT		
3:05 – 3:15 (10 min)	5. Trinity Trails Mural Gallery Project and Trail Improvements An update on the Trinity Trails mural gallery as well as the Clear Fork Trail phased improvements, including a trail design approach which separates pedestrian and bicycle travel modes.	Tina Nikolic, Tarrant Regional Water District		
3:15 – 3:55 (40 min)	6. NCTCOG Updates a. Update on the Bishop Arts Bicycle Parking Pilot Project – Matt Fall b. Bicycle and Pedestrian Demand Zones – Julie Anderson c. Best Practices for Trails and Bikeways GIS Fields and Attributes – Daniel Snyder d. Monthly Trail Usage Update – Daniel Snyder e. Possible Additional Regional Database Trail Attributes – Daniel Snyder f. Mobile Bicycle and Pedestrian Count Equipment – Daniel Snyder g. 2015-2019 Online Interactive Bicycle/Pedestrian Crash Maps – Bobby Kozub h. Regional Veloweb Trail Implementation: Highlights of efforts to advance the planning and engineering of regionally significant trail corridors (Fort Worth Bomber Spur Trail) – Kevin Kokes	Various NCTCOG Staff		
3:55 – 4:00 (5 min)	7. Other Business/Open Discussion This item provides an opportunity to bring items of interest before the Committee or propose future agenda items.	Kathy Nelson, Chair, City of Grapevine		

Next BPAC Meeting

The **next** meeting of the Bicycle and Pedestrian Advisory Committee is scheduled for **August 18**, **2021**, from 2:00-4:00pm

Bicycle and Pedestrian Advisory Committee – 2021 Roster

Agency Representing Town of Addison Janna Tidwell City of Arlington Anthony Cisneros City of Bedford Michele Wilson City of Carrollton Marcos Fernandez City of Carrollton Marcos Fernandez City of Cale Hill Shawn Ray City of Collevville Lisa Escobedo City of Dellas Jessica Scott City of Dellas Jessica Scott City of Dellas Jessica Scott City of Denton Chandra Muruganandham City of Delsoto City of Duncanville Athena Seaton City of Euless Alexander Harvey City of Farmers Branch Mitzi Davis Town of Flower Mound Kari Biddix City of Fort Worth Jeremy Williams City of Garland Josue De la Vega City of Garland Josue De la Vega City of Grapevine City of Greenville Letora Anderson City of Irving Cody Owen City of Irving Cody Owen City of Lancaster City of Mansfield City of Morth Richland Hills Joe Pack City of Morth Richland Hills City of Morth Richland Hills City of Mesquite Wes McClure City of Morth Richland Hills Joe Pack City of Morth Richland Hills Joe Pack City of Washachie Colby Collins City of Washachie City of Washachie City of Washachie Colby Collins City of Washachie City of Washachie Colby Collins City of Washachie City of Fort Worth District Chad Davis Dallas Area Rapid Transit Particio Gallo Denton County Transportation Authority Finity Metro Jennifer Grissom TXDOT Fort Worth District Dan Perge TXDOT Fort Worth District Dan Perge	Bicycle and Pedestrian Advisor			
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		Phillip Hays		



NCTCOG Bicycle & Pedestrian Advisory Committee May 19, 2021

Kathryn Rush, Chief Planner Department of Transportation City of Dallas

Why Dallas Needs a Strategic Mobility Plan

- Our needs far outweigh our resources. Examples:
 - Sidewalks: 2,100 miles are missing.
 - Pavement Maintenance: We need to spend double our current annual budget to prevent further decline of pavement condition.
- Environmental Sustainability: The Comprehensive Environmental & Climate Action Plan (CECAP) calls for the City to reduce single-occupant vehicle mode share by 26% by 2050.
- Safety: City Council set a Vision Zero goal of eliminating traffic fatalities by 2030.
- **Equity:** It is difficult for low-income people to travel around Dallas and inequities are increasing.

How do we balance these needs and priorities?

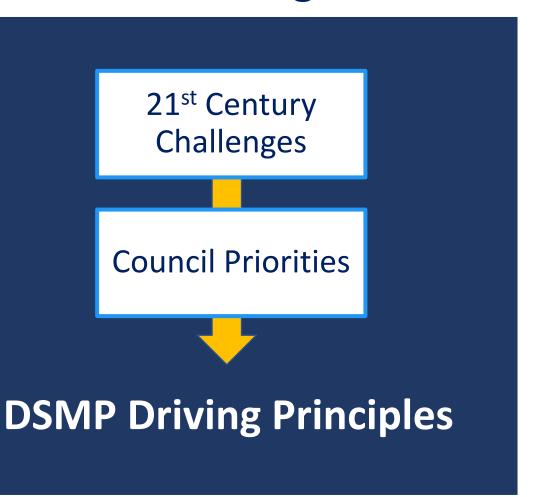




- ✓ Modernize how we prioritize transportation resources
- ✓ Create a roadmap that guides transportation planning and investments over the next 5 years
- ✓ Align transportation efforts with broader city goals (environmental, equity, housing, economic development, safety)
- ✓ Identify a strategy based on public input



What is Guiding the Plan?









Innovation



Sustainability



Economic Vitality



Housing





Preferred Transportation Vision

Scenario A – Compact, Connected, and Multi-Modal



onnect

Defining Our Strategy

Preferred **Driving** Strategy/ **Principles** Vision (Scenario A)

STRATEGY

- Project Prioritization
 Framework & Strategic
 Mobility Network
- 2. Policy Modernization Recommendations
- 3. Project Delivery Recommendations



HIII HIII HIII HIII HIII

2. PolicyModernizationRecommendations

Update the Bike and Thoroughfare Plans

Align Land Use Goals with Driving Principles

Establish a Streamlined Project Development

Establish a Transit Support Program

Reform the Development Review Process

Enhance Internal & External Coordination

Align the CIP with Connect Dallas Principles

Emphasize TDM to Improve System Efficiency

Proactively Manage the City's Curbside Assets

Develop a Freight Master Plan

Operationalize Vision Zero

Process

Safety	Environmental Sustainability	Equity	Economic Vitality	Housing	Innovation
1	1	1	1		
1	1		1		/
/		1			
	1	/	1	1	
1	1	1	/	1	1
	1	/		1	/
	1	1	1	1	
/	1	1	V		1
/			/		1
V V	1	1	1	1	1
1	/	/	/	1	1

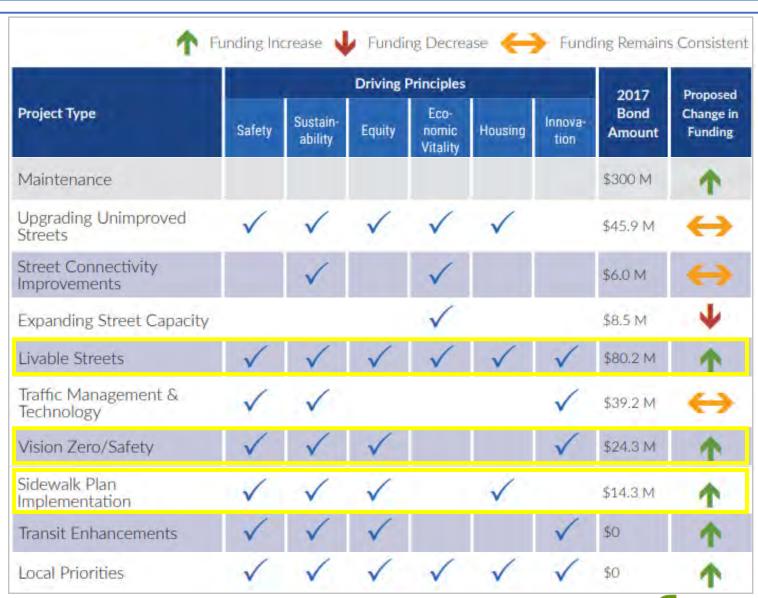
- Projects are only one piece to achieving our transportation vision and goals.
- Policies set a systematic framework for decisionmaking.
- Updated plans supply our projects and modespecific recommendations.
- Aligning internal operations and processes ensures we can succeed.



3. Project Delivery Recommendations

Funding Recommendations

- Adequately and sustainably fund maintenance
- 2. Fund maintence separately
- 3. Dedicate funding for local priority projects
- Dedicate annual funding to bicycle infrastructure, trails and new sidewalk construction
- Dedicate funding to Vision Zero implementation
- Dedicate funding to transit-supportive mobility
- Dedicate funding to technology improvements
- 8. Increase clarity of project type groupings





Thank you!

Kathryn Rush, Chief Planner Department of Transportation City of Dallas

www.dallascityhall.com/connectdallas





Bike to Work Day Free Ride Campaign

Presented by: Mary Worthington, Community Relations Manager

DCTA Bike to Work Day Free Ride Campaign



Campaign Overview

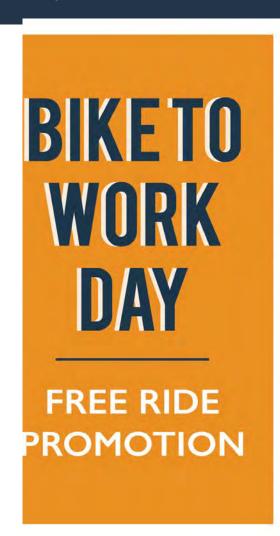
- DCTA is joining the League of American Bicyclists and many organizations across the country in celebrating Bike to Work Day by offering free rides all day to passengers who bring their bikes on board on Friday, May 21.
- The promotion will be valid on the following DCTA services: A-train, Connect Bus (Denton and Lewisville), Lewisville Lakeway and DDTC Evening On-Demand and University of North Texas (UNT) Campus Shuttles.



DCTA Bike to Work Day Free Ride Campaign 2021

GOALS AND OBJECTIVES (S.M.A.R.T.)

- Inform target audience about promotion
- Share with targeted partners and local organization for additional awareness of the promotion
- Increase number of cyclists who ride DCTA free year over year
- Drive traffic to the promo webpage that will be featured in the media center
- Generate engagement and promotion awareness through DCTA's owned media channels (social media, email marketing, etc.)





Target Audience

- Cyclists and people interested in riding bikes
- Current and potential riders
- Community partners and local organizations and businesses (with a tie-in to cycling and bikes)
- Local universities and colleges
- Stakeholders and member cities



Questions and Answers

Contact: Mary Worthington, Community Relations Manager mworthington@dcta.net

City of Arlington – Department of Public Works & Transportation

Sidewalk Program

2018 SAFE ROUTE TO SCHOOLS ASSESSMENTS

2018 SAFE ROUTE TO SCHOOL ASSESSMENTS

Assessment Guidelines

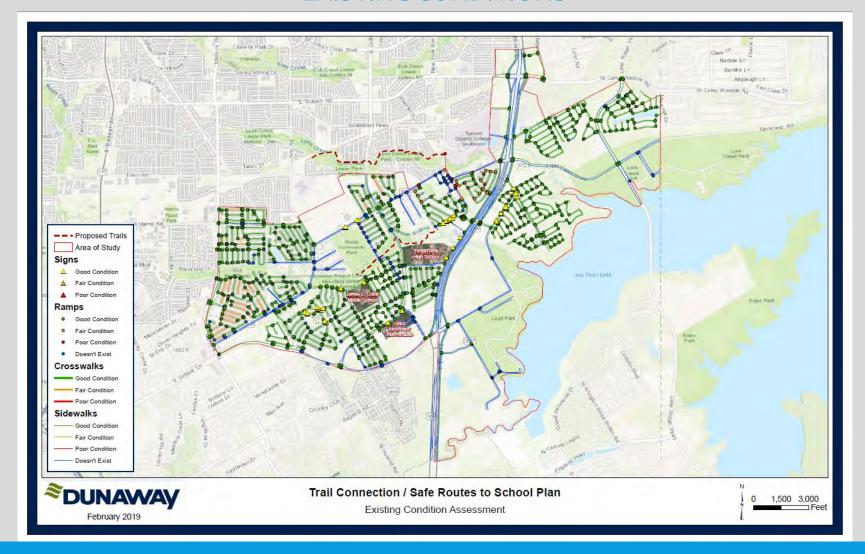
- Provide detailed information for 2019 SRTS Call for projects.
- School Attendance Zones
- Pedestrian Infrastructure
 - School Zones and Signage
 - Sidewalks
 - ADA Curb Ramps
- Provide analysis of all streets in walking perimeters of school zones.

2018 SAFE ROUTE TO SCHOOL ASSESSMENTS

School Assessed

- Della Icenhower Intermediate School
- Dunn Elementary School
- Moore Elementary & Boles Jr. High School
- Speer Elementary School
- Thornton Elementary School

DELLA ICENHOWER INTERMEDIATE SCHOOL EXISTING CONDITIONS



DELLA ICENHOWER INTERMEDIATE SCHOOL PROPOSED CONDITIONS



2018 SAFE ROUTE TO SCHOOL ASSESSMENTS

Assessments Results

- Received data for pedestrian improvements:
 - Maps
 - Cost Estimates
 - Written Assessments
- Ability to apply for grants over the next 3 years from locations assessed.
- Provides an overview of the amount of infrastructure improvements needed for feasibility studies.
- City of Arlington received approximately \$3.5 Mil for the construction of SRTS Locations.

UPCOMING EVENTS AND TRAINING

Bicycle and Pedestrian Advisory Committee

May 19*,* 2021

Robert Caskey, BPAC Vice-chair, Senior Traffic Engineer, City Of Frisco







Bike Month Events in DFW:



Bike to Work Week: May 17-23 dcta.net/rider-info/passenger-info/bikes-and-transit/bring-your-bikes



Bike Month Events in DFW:



Celebrate the opening of the White Settlement Bridge! Saturday, May 22 @ 11 AM

A ceremonial walk, run, roll, jog across the bridge



Fort Worth Opera GO at Fort Worth Bike Sharing

Where: The Trailhead at Clear Fork (Near Press Café)

When: Thursday, May 20, 2021, at 6:30 PM (30-minute concert)

Cost: FREE



Indianapolis June 15–18, 2021

walkbikeplaces.org

APBP 2021 Conference





ASSOCIATION OF PEDESTRIAN& BICYCLE PROFESSIONALS

VIRTUAL EVENT SAVE THE DATES!

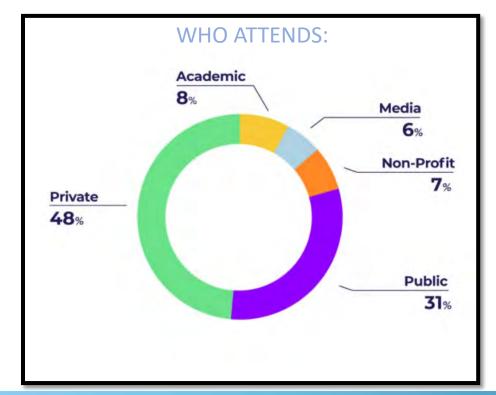
Wednesday, July 28 Wednesday, August 4 Wednesday, August 11

apbp.org/2021-conference

CoMotion MIAMI LIVE:

A Bold New Blueprint for Mobility. Technology, Policy and Business leaders Come Together to Design the Future of Urban Mobility

COMOTIONMIAMI.COM





Institute for Transportation Engineers
ITE.org

2-week,
Virtual Event!!

July 20-29



2021 Annual Meeting and Exhibition





Bike Friendly Fort Worth – Friendly Ride



Saturday, May 29th, 2021

- No-drop ride open to everyone
- Meet at the red pavilion in **Trinity Park**
- Roll out at 12 PM

VIRTUAL June Dallas Bicycle Coalition Meeting



Wednesday, June 2nd, 2021

Information about cycling and mobility in the City of Dallas

Register: bikedfw.org

Master Plans Underway or Anticipated in 2021

- Town of Addison Trails Master Plan (expected late summer completion)
- Flower Mound Parks and Trails
 Master Plan(expected Jan 2022)
- McKinney Parks and Trails Master Plan (expected June 2021)

- Carrollton Trails Master Plan (expected fall 2021)
- City of Denton Mobility Plan (expected fall 2021)
- City of Denton Trails Master Plan (late 2021)

Plans and Projects Underway cont....

Regional Projects

Fort Worth
Bomber Spur Regional Trail Preliminary Engineering:
(SH 183/Calmont Ave. on the north to SH 183/ Vickery Blvd on the south)

Location Map
Bomber Spur Regional Veloweb Shared-Use Path

Date: 09.30.19



Other Events or Training?

For any suggestions/topics for future training opportunities that NCTCOG can help coordinate or promote, please contact:

Matt Fall mfall@nctcog.org

Bobby Kozub rkozub@nctcog.org





TEXAS DEPARTMENT OF TRANSPORTATION









Ken Mora, P.E., Design Division/Roadway Design Section

Table of Contents

- 1 General Background
- 2 Projects Exceptions
- 3 Area Types (Urbanized, Rural)
- Facility Types (Urbanized, Rural)
- 5 Design Exceptions and Design Waivers
- 6 Project Implementation Guidance

General Background

In August 20, 2013 a Guidance Memorandum from the U.S. Department of Transportation was issued that states:

"The Federal Highway Administration (FHWA) <supports> taking a flexible approach to bicycle and pedestrian facility design. The American Association of State Highway and Transportation Officials (AASHTO) bicycle and pedestrian design guides are the primary national resources for planning, designing, and operating bicycle and pedestrian facilities."

Further emphasis was recently provided by FHWA's *Bicycle and Pedestrian Planning, Program, and Project Development* guidance:

"Bicycle and pedestrian needs must be given "due consideration" under Federal surface transportation law (23 U.S.C. 217(g)(1)). This consideration should include, at a minimum, a presumption that bicyclists and pedestrians, including persons with disabilities, will be accommodated in the design of new and improved transportation facilities. In the planning, design, and operation of transportation facilities, bicyclists and pedestrians should be included as a matter of routine, and the decision to not accommodate them should be the exception rather than the rule."

General Background

The TxDOT Bicycle Accommodation Design Guidance document provides interim guidance for design practices that accommodate bicycles until the guidance is formally incorporated in TxDOT's Roadway Design Manual (RDM). Note this Guidance will be incorporated into the Rev 1/2 RDM release currently scheduled for July 2021.

The current RDM (July 2020 version) does include some guidance in Chapter 6 – Special Facilities; Section 4 – Bicycle Facilities and the TxDOT Bicycle Accommodation Design Guidance document provides more details and clarifications.

Accommodating bicyclists of different ages and abilities applies to all types of roadways except those that specifically prohibit bicycle travel. Bicycle accommodations should be designed to accommodate the greatest number and type of bicyclists with the safest facility possible within local constraints.

Due to the wide range of constraints that engineers may need to consider in their design, the TxDOT Bicycle Accommodation Design Guidance outlines the flexibility allowed when selecting the appropriate bicycle accommodation.

Projects that may not be excepted regardless of Location

Note, projects located on the Texas Bicycle Tourism Trails Example Network are not excepted from bicycle accommodations regardless of location. The TxDOT Statewide Planning Map provides additional information on MPO boundaries, area types, and the Texas Bicycle Tourism Trails Example Network.

Additionally, all On-System bridges regardless of location, involving bridge replacement, bridge deck replacement, or bridge rehabilitation will need to meet the bicycle clear space requirements specified in the General Bicycle Accommodation Selection Guidance portion of this document, and are not excepted. Off-system Bridges where this addition may represent an unreasonable increase in cost may be excepted from the bicycle clear space requirement.

Projects that may not be excepted regardless of Location or other criteria

TxDOT Bicycle Tourism Example Network (TxDOT Statewide Planning Map)



Projects that may be Excepted

- The project is on a roadway where bicycle travel is specifically prohibited by law or Texas Transportation Commission Minute Order.
- The project is located outside of a respective Metropolitan Planning Organization (MPO) Boundary; AND is also located outside of any respective city limits with a population of 2,500 or greater. The TxDOT Statewide Planning Map provides additional information on MPO boundaries and area types. Before using this exception, seek out and consider local stakeholder input and community need.
- The project is in an urbanized setting (defined as a city, town, or Census-designated place with population of 2,500 or greater) where a <u>locally preferred alternative route</u> has been adopted or implemented and bicycle accommodations are deemed impractical within the scope of the project. The project is in an urbanized setting with limited roadway improvements and there is already a future project programmed (e.g., MPO Active Transportation Plan) where the bicycle updates make more sense in the context of overall transportation improvements.
- The cost to provide features exclusively for bicyclist accommodations is excessively disproportionate to the need or likely uses. While a determination of "excessively disproportionate" should be concluded on a case-by-case basis and well documented, exceeding 20% of the total project cost (including design, construction, ROW, etc.) may be considered as a general guideline. This exception should not be used if the project will help complete a gap in an overall bicycle network.

Projects that may be Excepted

- The source of funding specifically precludes improvements other than those for which the funding is intended. Note that although Category 8 funding (which includes HSIP, Statewide systemic widening, and Road to Zero) does not currently have funding allocated specifically for bicycle accommodations, it is though allowable to place money that has been specifically designated for bicycle accommodations into Category 8. Note, the following link from FHWA provides funding opportunities for bicycle facilities.
 (https://www.fhwa.dot.gov/environment/bicycle_pedestrian/funding/funding_opportunities.cfm)
- The type of work is limited in scope such that major roadway elements are not being constructed or reconstructed. For example: safety end treating culverts only, MBGF replacement only, sealcoat only, and other types of preventative maintenance projects. Note that resurfacing can provide the opportunity to restripe and/or improve the riding surface for bicycle accommodations in certain instances and, as such, would not necessarily warrant an exception. Other projects with a narrow scope should be evaluated to determine if negative impacts to the bicycle accommodations may result.

Not excepted due to Location (and does not meet other exception criteria)

Not Excepted: Within MPO boundary, or outside of MPO boundary but has a population of 2,500 or greater. A population of between 2,500 – 49,999 is defined by the US Census as an Urban cluster.



Population: 2,627 – urban cluster (YKM District)



Area Types (Urbanized, Rural)

The land use context that surrounds a potential bicycle accommodation may influence the type of users (e.g. target design user), the number of users, and the potential interactions of other roadway users with the facility. Two context groupings have been used when providing guidance for bicycle facility selection:

- Urban and Suburban Contexts (referred to as "urbanized" and includes urban core and rural town which is defined in FHWA's Separated Bike Lane Planning and Design Guide)
- Rural Contexts

Area Types (Urban Core)

- Context includes high density areas, with mixed land uses within predominantly high-rise structures and small building setbacks.
- Predominantly found in central business districts and adjoining parts of metropolitan areas.
- The area is accessible to automobiles, commercial delivery vehicles, and public transit.
- Major transit terminals may be present, as well as transit corridors, including bus and rail transit.
- There are high levels of pedestrian and bicycle users and motor vehicle speeds are relatively low.
- Residences are often apartments or condominiums.
- On-street parking is limited and time restricted more than the urban context.
- Substantial parking in multi-level structures attached/integrated with other structures.



Source: Gresham-Smith Partner

Area Types (Rural Town)

- Context is applicable to roadways in rural areas located within developed communities.
- Low development densities, diverse land uses, on-street parking and sidewalks in some locations, and small building setbacks.
- Rural towns may include residential neighborhoods, schools, industrial facilities and commercial main street business districts each of which presents differing challenges and differing levels of pedestrian and bicycle activity.
- Meet the needs of not only through travelers, but also the residents of the community.



Source: Gresham-Smith Partners

Facility Types

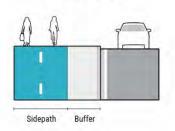
Below is a description and brief design guidance for the most common bicycle facility types. From left to right, it shows decreasing separation between bicyclists and motor vehicles.



Shared Use Paths Adjacent to Roadways (Sidepaths)

- Are located within a roadway corridor following the roadway alignment
- Are typically separated from motorized vehicular traffic by a landscaped buffer or a barrier
- Two-way travel, because in addition to bicyclists, users may include inline skaters, skateboarders, pedestrians, and runners
- Conflict points such as driveways and frequent street crossings should be mitigated to the greatest extent practicable to maximize comfort and safety
- A bicycle design speed of 15 mph is generally appropriate
- The desired width for a sidepath is 11 to 15 feet or more (SUPLOS calculation)
- To maximize service life and to assure a reasonable SUPLOS grade, paved widths should not be less than 10 feet
- As path user volumes increase, designers should consider increasing the width of the sidepath up to 15 feet
- Standard minimum width is 10 ft. A minimum width of 8 feet may be used in rare circumstances
- Horizontal and vertical alignments provide frequent, well-designed passing and resting opportunities where the width is at least 10 feet

Shared-Use Sidepath



<u>Table 3: SUPLOS example calculation (higher foot traffic)</u>

Segment Name	Path Width	Centerline	Volume (users per hour in 1 direction) and Mode Split						
Name	Width (ft)	1=Centerline	One-Way (per hour)	Adult Bicyclists	Peds	Runners	In-Line Skaters	Child Bicyclists	SUPLOS grade
More Peds	12.0	O	100.0	20.0%	<mark>60.0%</mark>	<mark>15.0%</mark>	<mark>2.0%</mark>	3.0%	C

- A SUPLOS grade of "C" or better is desirable over the life of the facility to ensure it is comfortable and safe for all users
- Table 3 provides a sample SUPLOS calculation with higher foot traffic
- When foot traffic exceeds 15%, SUPLOS degrades more rapidly
- Counts or projected counts should be made in anticipated peak hour, analogous parallel facilities may be used for additional guidance as well
- Texas Bicycle and Pedestrian Count Exchange (https://mobility.tamu.edu/bikepeddata/) has pedestrian and bicycle count data for various facilities statewide
- FHWA SUPLOS Users Guide and calculator is located at https://www.fhwa.dot.gov/publications/research/safety/pedbike/05138/

<u>Separated Bike Lanes</u>

lanes

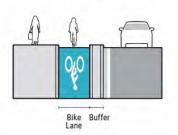
- A separated bike lane is a bicycle lane that is physically separated from the adjacent motor vehicle traffic by vertical elements in the street buffer
- Vertical elements may include raised medians, flexible posts, concrete curbs, or parked vehicles.
- Typically designed to operate one-way but may also operate two-way
- These are sometimes also referred to as protected bike lanes
- Separated bike lanes combine the user experience of a shared use sidepath with a designated area for bike use only like a conventional bicycle lane, separate from pedestrians
- They are distinct from the sidewalk but may be at sidewalk level
- The desirable width of a separated bike lane depends upon the volume of users and the context of the design as shown in Table 5 for one-way separated bike

Table 5. One-Way Separated Bike Lane Widths (Minimum to Desirable)

Peak Hour Directional Bicyclist Volume	Between Vertical Curbs or Flex Posts	At Sidewalk Leve	
< 150	6.5 – 8.5 feet	5.5 – 7.5 feet	
150 - 750	8.5 – 10 feet	7.5 – 9 feet	
> 750	≥ 10 feet	≥ 9 feet	
Constrained Condition*	5	4	

^{*}Peak Hour Directional Bicyclist Volume not applicable

Separated Bike Lane



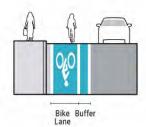


Raleigh, NC Street Level with Flexible Post Separation

Buffered Bike Lanes

- A buffered bike lane is a one-way bike lane that is separated from the adjacent motor vehicle lane or parking lane by a striped buffer area that may include chevrons, diagonal lines, or wide pavement marking stripes
- When sufficient roadway width is present, or if the number of travel lanes is reduced, a buffer may be striped between a bike lane and travel lane to provide additional comfort for both bicyclists and motorists
- The buffer adds to the perception of safety and encourages greater use of the onstreet bicycle network
- Providing added separation between motorists and bicyclists who may be traveling at substantially different speeds appeals to a wider array of bicycle users
- The desirable useable width of a buffered bike lane is 5 to 7 feet exclusive of the buffer
- The minimum useable width is 4 feet exclusive of the buffer
- Buffers should be a minimum of 2 feet wide for speeds of 45 mph or less, and 3 feet wide for 50 mph or greater and delineated by two solid white lines

Buffered Bike Lane



Bike Lanes

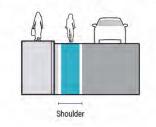
- Bike lanes are one-way facilities on a roadway that typically carry bicycle traffic in the same direction as adjacent motor vehicle traffic
- Bike lanes are provided for the exclusive use of bicyclists and are identified through signage, striping, or other pavement markings
- Bike lanes allow bicyclists to ride at comfortable speeds and encourage a position within the roadway where they are more likely to be seen by motorists
- Bike lanes are typically on the right side of the street, between the outside travel lane and curb, parking lane, or road edge
- Bicyclists may leave the bike lane to pass other bicyclists or avoid debris and other traffic conflicts
- Bike lanes should only be used in locations with speeds of 45 mph or less
- For high speed locations, a buffered bike lane is recommended
- The desirable width of a bike lane is 5 to 7 feet
- The minimum width is 4 feet and should only be used when all other crosssectional elements have been minimized
- A 6 to 7 foot bike lane is desirable adjacent to parallel parking to allow the bicyclist to avoid riding in the door zone (the minimum bike lane width is 5 feet in this situation)



Bike Accessible Shoulders

- Bike accessible shoulders are one-way facilities on a roadway that carry bicycle traffic in the same direction as adjacent motor vehicle traffic
- A bike accessible shoulder is one that is at least as wide or wider than a bike lane to accommodate bicyclists and paved to provide a smooth, solid surface across its width
- While the bike accessible shoulder distinguishes predictable areas for bicyclist and automobile movement, bicyclists may leave the shoulder to pass other cyclists or avoid debris and other traffic conflicts
- A minimum width of 4' is allowable in low speed (45 mph or less) conditions
- A minimum width of 5' is allowable for high speed conditions.
- A minimum width of 5' is required for shoulders adjacent to bridge railings, MBGF, and other vertical elements
- Some shoulders should be up to 10 feet wide adjacent to higher speed roadways to allow bicyclists to operate with more separation to the high-speed traffic
- Roadways indicated in TxDOT's Bicycle Tourism Trails Study should be designed with a minimum 8-foot shoulder
- Bike accessible shoulders are not for use by pedestrians

Bike Accessible Shoulder (urban)



<u>Bike Accessible Shoulder</u> <u>Rumble Strip Design and Gap Placement</u>

- Rumble strips are used to warn the driver that they are leaving the travel way and is beneficial on the safety of bicycles using the shoulder
- Allowances should be made in the shoulder to provide an adequate width for bike accommodations beyond the rumble strip
- Profile pavement markings serve a similar function as milled rumble strips and can be considered an option to avoid reduction in width of the accessible shoulder
- Where bicycle traffic is expected, rumble strips should be designed to minimize crash risk for bicyclists
- Where bicyclists are operating at 20 mph or less, a minimum 15 ft gap every 40 to 60 ft should be provided
- Where bicyclists are operating over 20 mph, the gap should be increased to 20 ft or more or the rumble strips should be located on the right side of the shoulder to allow bicyclist to avoid them if they need to enter the travel lane

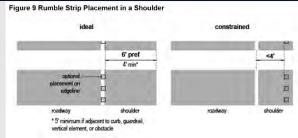
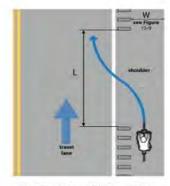


Figure 10 Rumble Strip Design and Gap Placement

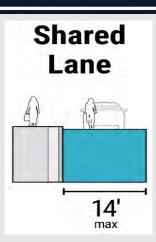


Rumble strip gap (L) dimensions:

- Where bicyclists are operating at 20 mph or less, a minimum 15-foot gap every 40 to 60 feet allows half a second for a bicyclist to cross the rumble strip
- 2. Where bicyclists are operating over 20 mph, the gap should be increased to 20 feet or more or the rumble strips should be located on the right side of the shoulder to allow bicyclists to avoid them if they encounter a need to enter the trave lane (e.g. a downhill location)

Shared Lanes (wide outside lane)

- Shared lanes (wide outside lane) are lanes that allow compatibility of operation for both motorized vehicles and bicycles
- Bicycles may be operated on all roadways except where prohibited by statute or regulations
- Shared lanes without markings already exist in many different urban, urban core, suburban and rural town settings
- Note that although <u>marked</u> shared lanes are allowed in the TMUTCD for certain conditions, TxDOT as a general policy does not recommend <u>marked</u> shared lanes for TxDOT roadways due to the higher speed nature of TxDOT roadways as compared to local jurisdictions
- In Urbanized applications, Shared wide outside lanes should only be used in locations with low volumes (3,000 ADT or lower) and low speeds (35 mph or less)
- 14 feet is the maximum and 13 feet is the minimum "usable width" for a shared wide outside lane
- The usable width is measured from the lane stripe to either the gutter joint or one foot from the nominal face of a monolithic curb
- If the usable width is greater than 14 feet, a bike lane should be provided instead (use of minimum travel lane widths may be necessary to incorporate the bike lane)



Facility Types (Rural)

Shared Use Path

- A Shared Use Path adjacent to roadway (sidepath) with separation from the roadway is an option on rural facilities
- Additional option is an SUP on an independent alignment
- While it is recognized that these types of facilities are not usually feasible on most rural projects, consideration should be given to using them on the Texas Bicycle Tourism Trails Example Network and rural roadways with ADT over 6000
- See the urban sidepath guidance and the AASHTO Bike Guide for additional information



Facility Types (Rural)

Bike Accessible Shoulders

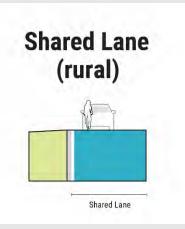
- Bike accessible shoulders in rural areas function similar to bike accessible shoulders in urban areas with the exception that the roadway will typically not have a curb at the edge
- See the urban shoulder guidance and the AASHTO Bike Guide for further design guidance



Facility Types (Rural)

Shared Lanes (wide outside lane)

- See the urban shared lane guidance and the AASHTO Bike Guide for further design guidance
- In Rural applications, shared wide outside lanes should only be used in locations with very low volumes (1,000 ADT or lower) and speeds of 45 mph or less



Design Exceptions & Design Waivers (Urbanized or Rural Context)

(Note, Projects that may be excepted (Slides 7 & 8) do not require Design Exceptions or Design Waivers)

Design Exceptions

- Bike Lane: If the minimum width specified in the Basic Design Guidelines is not met.
- Shared Lane (Wide Outside Lane): If the traffic volume, speed, or width criteria (14-ft maximum, 13-ft minimum) specified in the Basic Design Guidelines are not met.

Design Waivers

- Shared Use Path (Independent alignment or Side Path): If the minimum width criteria (minimum 10-ft, 8-ft rare circumstance), buffer width, and other geometric criteria specified in the Basic Design Guidelines, and the associated AASHTO Bike Design criteria are not met.
- Separated Bike Lane/Buffered Bike lane: If the minimum criteria specified in the Basic Design Guidelines are not met.
- Bike Accessible Shoulder: For new construction, reconstruction, or widening projects where right-of-way is being acquired, a Design Waiver is required if a minimum width defined in the Basic Design Guidelines is not provided.

Project Implementation Date

Bicycle Guidance Implementation date

	By November 1st, 2021 approved 30% Plans or schematic	By November 1st, 2021 30% Plans or schematic not approved
Let Prior to September 2022	Optional	Optional
September 2022 Letting or later	Optional	Required



TEXAS DEPARTMENT OF TRANSPORTATION







THANK YOU

Ken Mora, P.E.

Design Division/Roadway Design Section



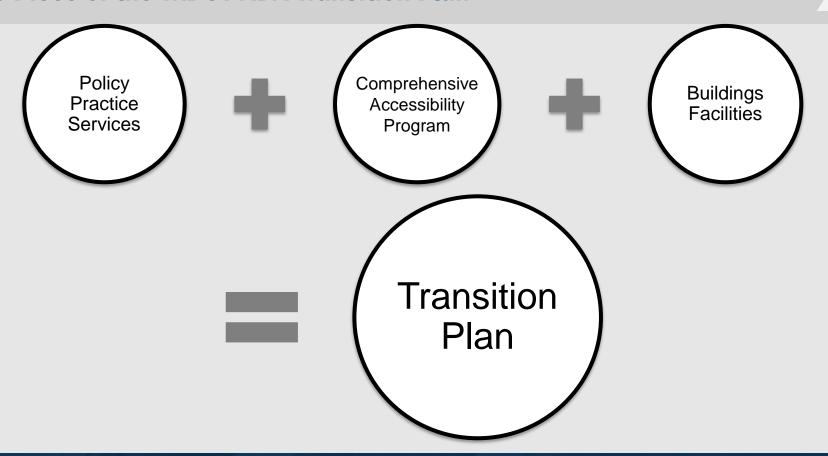
TxDOT Comprehensive Accessibility Program (TCAP)

Becky Byford, P.E.

TxDOT Design Division Landscape Architecture Section

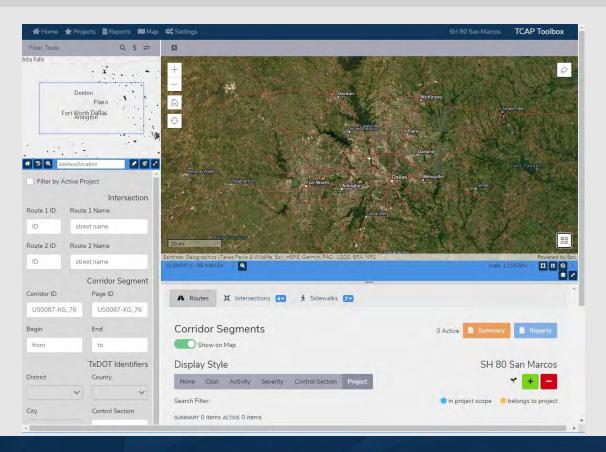


One Piece of the TxDOT ADA Transition Plan



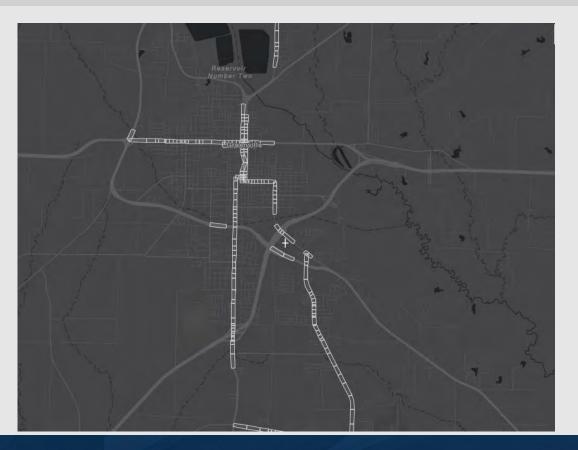
TCAP Web Viewer





Corridor Segments





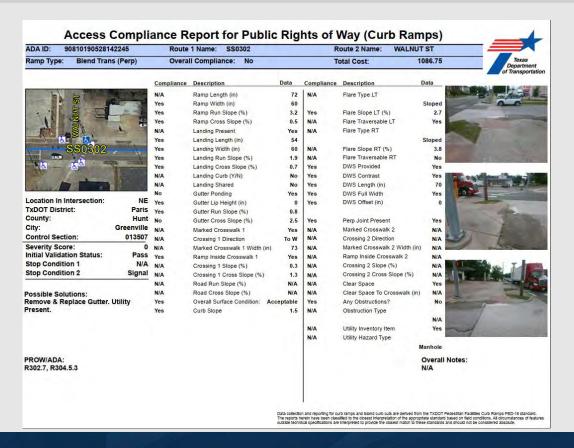
Data in Corridor Segment





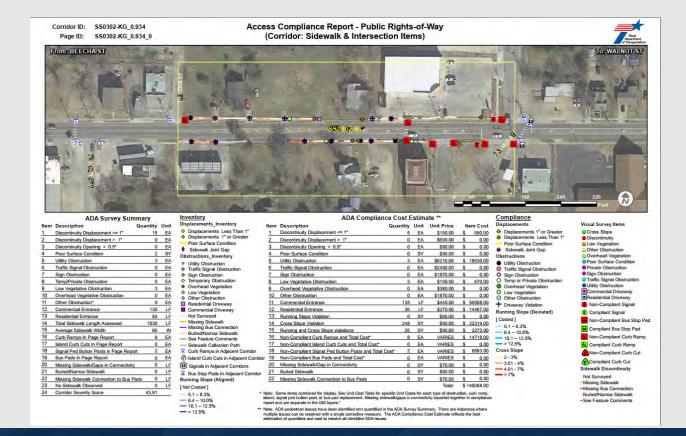
Compliance Report for Curb Ramp





Compliance Report for Corridor Segment





Severity Score

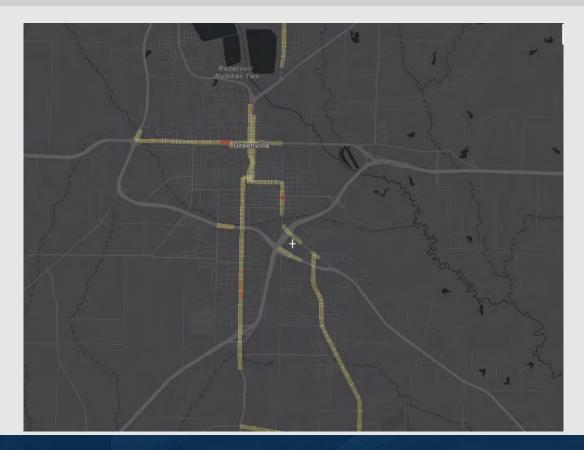




- Measure of ADA compliance
- Compliant or not compliant
 - Based on PROWAG
- If not compliant, how severe?
 - Functional (lower score)
 - Example: sidewalk with 2.1% cross slope
 - Safety Issue (higher score)
 - Example: sidewalk with 7% cross slope

Severity Score - Visual





Activity Score

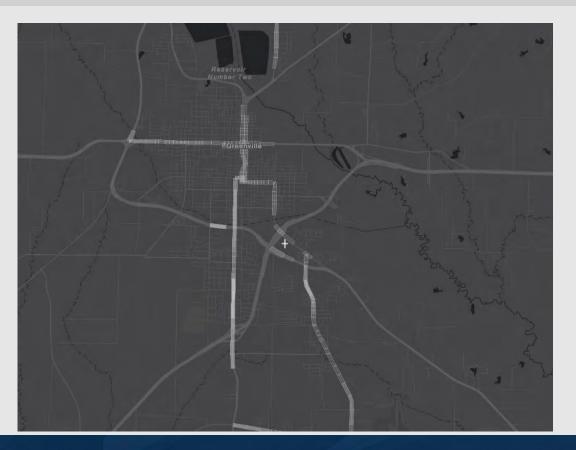




- Estimated level of pedestrian usage
- More frequent usage may increase priority for remediation
- Includes:
 - Govt. Buildings
 - Schools
 - Hospitals & Medical Centers
 - Bus Stops
 - Census: % Disabled, Employment Data, and %
 Ped/Bike/Transit Commuters

Activity Score – Visual





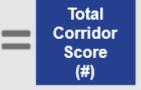
Prioritization

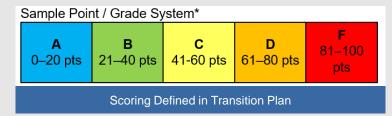












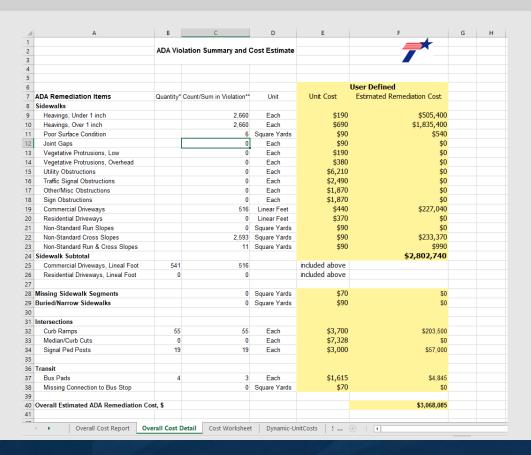
Prioritization



ID	File	Zoom	Ctrl Sec	City	Total Cost	Activity	Severity	Score	Rank
SH0034-KG_42.476_0	Di .	Q	017307	Greenville	\$0	15.25	0	15.25	A.
SH0034-KG_42.434_0	Ei Ei	Q	017307	Greenville	\$2,760.00	21,25	0.30	21.55	A
SH0034-KG_42.484_0	Di .	Q	017307	Greenville	\$3,250.00	24.75	14.53	39.28	В
SH0034-KG_42.351_0	B	Q	017307	Greenville	\$11,388.00	24,75	30,26	55.01	В
SH0034-KG_42.311_0	Di Di	Q	017307	Greenville	\$21,737.00	30.75	37,33	68.08	c
SH8834-KG_42.28_8	B	Q	017307	Greenville	\$4.471.00	30.75	0.75	31.50	.А
SH0034-KG_42.191_0	B	Q	017307	Greenville	\$18,091.00	30.75	3.92	34.67	A
SH8934-KG_41.967_0	B	Q	017307	Greenville	\$18,147.00	45.75	3.27	49.02	В
SH0034-KG_41.907_0	B	Q	017307	Greenville	\$23,986.00	45.75	7.29	53.04	В
SH8034-KG_41.753_0	B	Q	017307	Greenville	\$24,211.00	53.25	86.20	139.45	D
SH0034-KG_41.569_0	B	Q	017307	Greenville	\$34,921.00	47.25	79.61	126.86	D
SH0034-KG_41.495_0	B	Q	017307	Greenville	\$11,378.00	26.25	32,36	58.61	В
SH0034-KG_41.413_0	B	Q	017307	Greenville	\$50,480.00	20.25	74.54	94.79	C
SH0034-KG_41.317_0	B	Q	017307	Greenville	\$14,503.00	12.75	17,72	30.47	A
SH0034-KG_41.214_0	B	Q	017307	Greenville	\$15,322.00	18.75	7.12	25.87	À
SH0034-KG_41.13_0	B	Q	017307	Greenville	\$17,285.00	16.25	26.07	42.32	В
SH8834-KG_41.864_8	B	Q	017307	Greenville	\$16,006.00	22.25	37,37	59.62	В
SH8834-KG_48.955_8	Di .	Q	017307	Greenville	\$2,608.00	28.25	15.00	43.25	В
SH0034-KG_40.764_0	B	Q	017307	Greenville	\$47,941.00	29.75	0.30	30.05	À
SH0034-KG_40.683_0	B	Q	017307	Greenville	\$33,065.00	34.25	12.72	46.97	В
SH8034-KG_40.618_8	Di Ci	Q	017307	Greenville	\$24,060.00	34.25	8,50	42.75	В

Data Export





Data Export



L	J	1	H	G	F	E	D	C	В	А
					nry	Prioritization Summa				
					Ranking Scale	F	D	С	В	A
				User-Defined	Range - Min	165.00	108.50	66.50	34.50	0.00
		ned Values	ge - Max from User Defii	*** Form Calculates Ran	Range - Max	> 165	164.99	108.49	66.49	34.49
	lculated	Pre-ca	User-Defined							
	Severity Score	Activity Score	Activity Score	Priority Score	Priority Rank	Control Section	End Street	Begin Street	Highway Name	Corridor Segment ID
	15.0	8.8	8.8	23.8	A	DEL RA DR	BU0069D		FM1570-KG_0.0_0	M1570-KG_0.0
	6.8	8.8	8.8	15.5	Α	US0069	DEL RA DR		FM1570-KG_0.127	M1570-KG_0.127
	37.8	16.3	16.3	54.1	В	WESLEY	JOHN ST	SH0034-KG	SH0034-KG_39.93	H0034-KG_39.939
	0.8	30.8	30.8	31.5	Α	GS0000	KARI LN	SH0034-KG	SH0034-KG_42.28	H0034-KG_42.28
	30.9	28.8	28.8	59.6	В	GS0000	IH0030	SH0034-KG	SH0034-KG_42.54	H0034-KG 42.54
	3.3	45.8	45.8	49.0	В	BURNETT DR	ROBIN RD	SH0034-KG	SH0034-KG 41.96	H0034-KG_41.967
	0.3	21.3	21.3	21.6	Α	GS0000	IH0030	SH0034-KG	SH0034-KG 42.43	H0034-KG 42.434
	4.5	28.8	28.8	33.3	A	MUSTANG XING	GS0000	SH0034-KG	SH0034-KG_42.55	H0034-KG_42.558
	2.0	28.8	28.8	30.8	A	BLISS ST	TRADERS ST	SH0034-KG	SH0034-KG_42.75	H0034-KG_42.756
	86.2	53.3	53.3	139.5	D	MOCKINGBIRD LN	TERRELL RD	SH0034-KG	SH0034-KG_41.75	H0034-KG_41.753
	0.0	15.3	15.3	15.3	A	GS0000	GS0000	SH0034-KG	SH0034-KG_42.47	H0034-KG_42.476
	30.3	24.8	24.8	55.0	В	GS0000	GS0000	SH0034-KG	SH0034-KG_42.35	H0034-KG_42.351
	14.5	24.8	24.8	39.3	В	IH0030	GS0000	SH0034-KG	SH0034-KG_42.40	H0034-KG_42.404
	0.0	22.8	22.8	22.8	Α	IH0030	GS0000	SH0034-KG	SH0034-KG_42.49	H0034-KG_42.491
	37.3	30.8	30.8	68.1	С	GS0000	GS0000	SH0034-KG	SH0034-KG_42.31	H0034-KG_42.311
	26.1	16.3	16.3	42.3	В	AILEEN ST	WOODROW AVE	SH0034-KG	SH0034-KG 41.13	H0034-KG 41.13
	17.7	12.8	12.8	30.5	Α	EASTLAND AVE	WEBB AVE	SH0034-KG	SH0034-KG_41.31	H0034-KG_41.317
	32.4	26.3	26.3	58.6	В	MITCHELL AVE	POPLAR AVE	SH0034-KG	SH0034-KG_41.49	H0034-KG_41.495
	3.1	28.8	28.8	31.8	Α	TRADERS ST	MUSTANG XING	SH0034-KG	SH0034-KG_42.61	H0034-KG_42.611
	7.3	45.8	45.8	53.0	В	ROBIN RD	MOCKINGBIRD LN	SH0034-KG	SH0034-KG_41.90	H0034-KG_41.907
	79.6	47.3	47.3	126.9	D	TERRELL RD	MITCHELL AVE	SH0034-KG	SH0034-KG_41.56	H0034-KG_41.569
	37.4	22.3	22.3	59.6	В	WOODROW AVE	HIGHLAND ST		SH0034-KG_41.06	H0034-KG_41.064
	74.5	20.3	20.3	94.8	С	POPLAR AVE	EASTLAND AVE	SH0034-KG	SH0034-KG_41.41	H0034-KG_41.413
	3.9	30.8	30.8	34.7	В	KARI LN	BURNETT DR	SH0034-KG	SH0034-KG_42.19	H0034-KG_42.191
	7.1	18.8	18.8	25.9	Α	WEBB AVE	AILEEN ST		SH0034-KG_41.21	H0034-KG_41.214
	0.3	29.8	29.8	30.1	Α	CANTON ST	US0069	SH0034-KG	SH0034-KG_40.76	H0034-KG_40.764
	28.8	17.8	17.8	46.5	В	PARK ST	WESLEY		SH0034-KG_39.98	H0034-KG_39.984

Contact Information

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(512) 416-2749

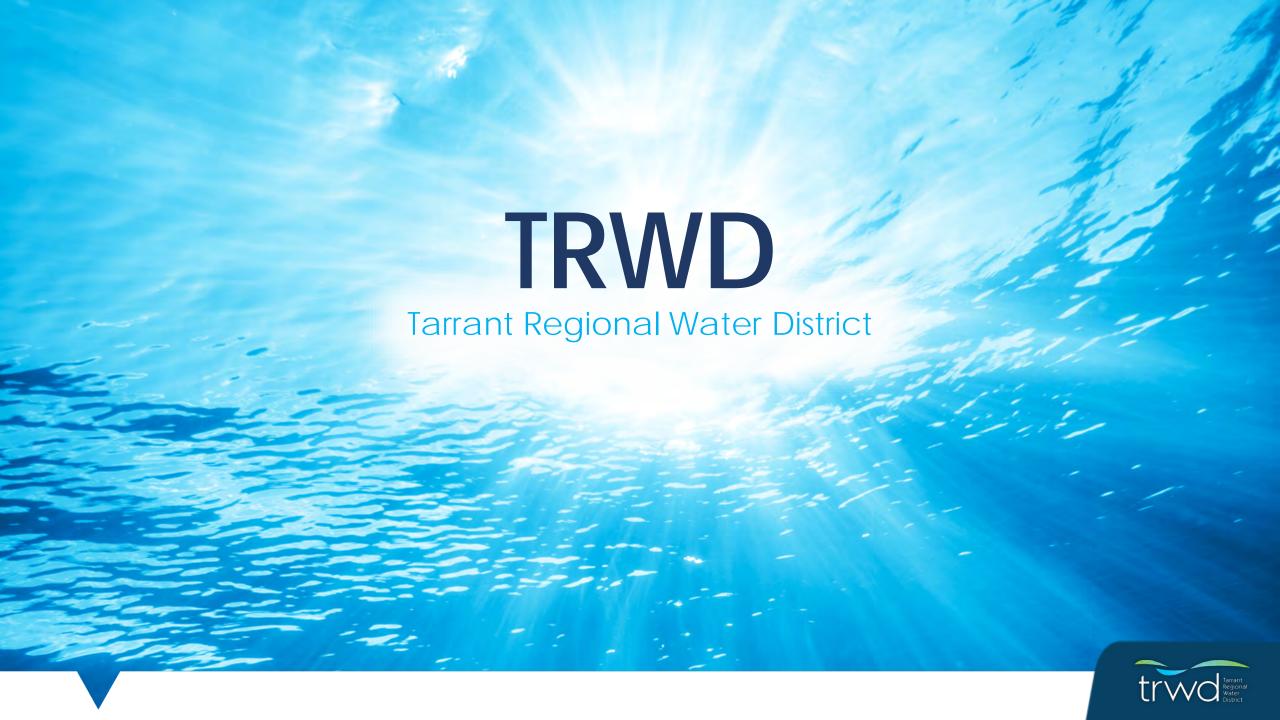
<u>Rebecca.Byford@txdot.gov</u>

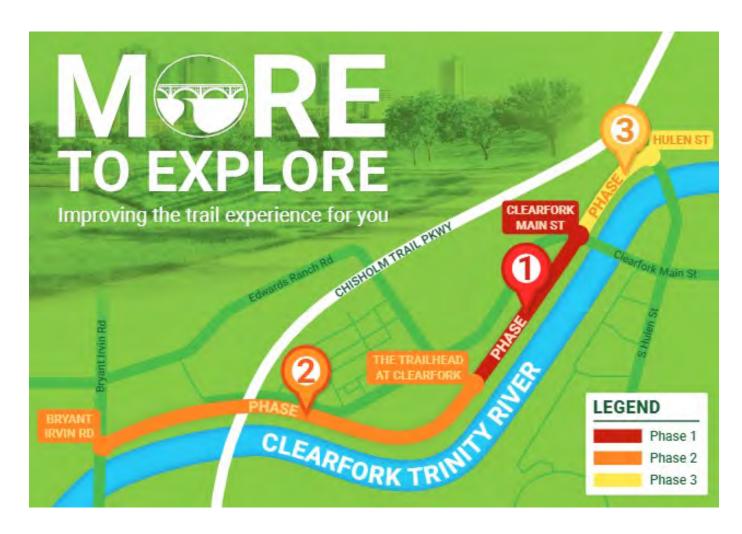
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Pete Krause, RLA

DES LA Section Director
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Pete.Krause@txdot.gov





PROJECT DETAILS

1.5 miles of separate concrete and soft surface trails

3 phases over the course of 12 months, started in November 2020



BEFORE PICTURES





Meandering soft surface trail



In-progress



10 ft wide concrete trail



TRWD Painting the River: A trinity Trails Mural Gallery

GOALS

- Create a destination along the trails
- Initiate adventure and desire to explore
- Enhance quality of trail experience with chance encounters

PROCESS

Call for Artist

- Received over 200 applications
- Narrowed down to 80 artist
- Result 23 artist on 27 structures

Scheduling

9 months to complete all structures





Painting The River: A Trinity Trails Mural Gallery

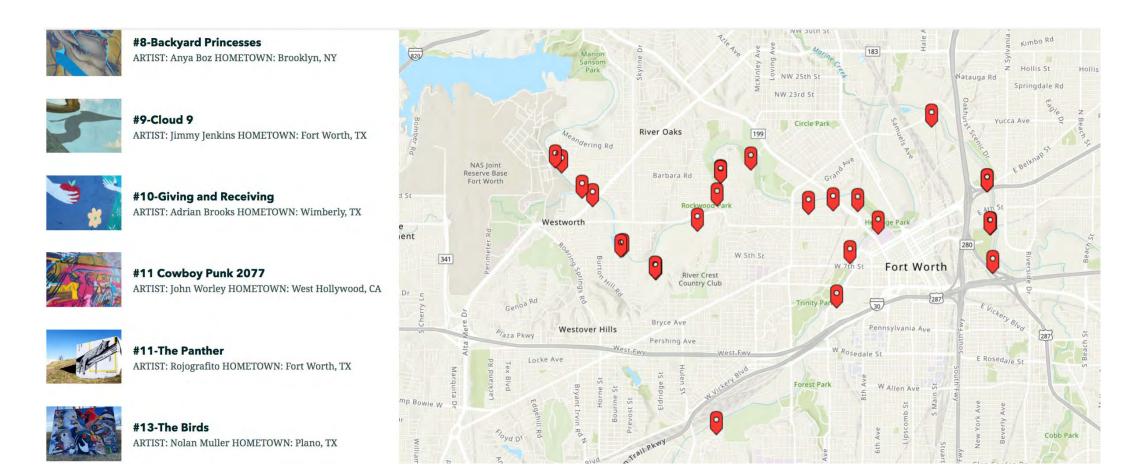








INTERACTIVE STORY MAP



Website: Trinitytrailsfw.com



Bicycle Parking
Parklet Pilot
Project:
Dallas Bishop Arts
District

Bicycle and Pedestrian Advisory Committee May 19, 2021





Bicycle Parking Parklet: PROJECT SCHEDULE

(February 28, 2018)

The Blue-Green-Grey Silo-Busting Initiatives approved by Regional Transportation Council

(August 23, 2018)

Executive Board authorizes NCTCOG to enter into agreements with the private sector

(July 20, 2019)

Project initiated after agreement finalized with consultant, Amanda Popken Development

(December 9, 2020)

Dallas City Council approves the Street Seats program, allowing for private or public parklet options and the use of up to two curbside parking spaces

(December 18, 2020)

Ribbon cutting event to mark final parklet installation



Bicycle Parking Parklet Pilot Project - 2019



Summary Memo

Retrofitting Neighborhood Commercial Green Bicycle Parking Green Blue Grev Project



MARKETING & PROMOTIONS

Project Promotion

- May 20, 2020 Presentation to NCTCOG regional Bicycle Advisory Committee Zoom call
- . May 27, 2020 Presentation to Dallas Bike Coalition by Zoom call
- October 1, 2020 Panel discussion and presentation of parklet project at virtual event "Future of Public Space" Presented by Urban Land Institute, American Institute of Architects and Dallas Architecture Forum
- October 7, 2020 Presentation to Dallas Bicycle Coalition virtual meeting



- Cost: \$38,500
- Funds were used for the development and implementation of an eco-friendly bike parking and public seating parklet in the Bishop Arts District in Dallas.
- Pilot project established a replicable green parklet design, suitable for mixed use and neighborhood walkable retail districts.

Initial Design





Pilot Project OVERVIEW

- Easily replicable parklet bicycle parking design, suitable for the context of various mixed use and neighborhood walkable retail districts
- •Construction plans for the bicycle parking parklet have been open-sourced and available at:
 - nctcog.org/trans/plan/bikeped/planningprojects
 (under Completed Plans)
 - Also, will be available at bikedfw.org/parklet.html
- •Pilot project installed at the intersection of N Bishop Avenue and W 8th Street in Dallas, to address the parking demand in the Bishop Arts District
- •Accommodates parking for up to 13 bicycles by using a small angle iron under the corner of each bench as a lock post. The modular design allows for larger or smaller installations
- •Retrofitted two automobile parallel parking spaces, with the parklet constructed on top of the existing street pavement adjacent to the street curb (no pavement cuts)







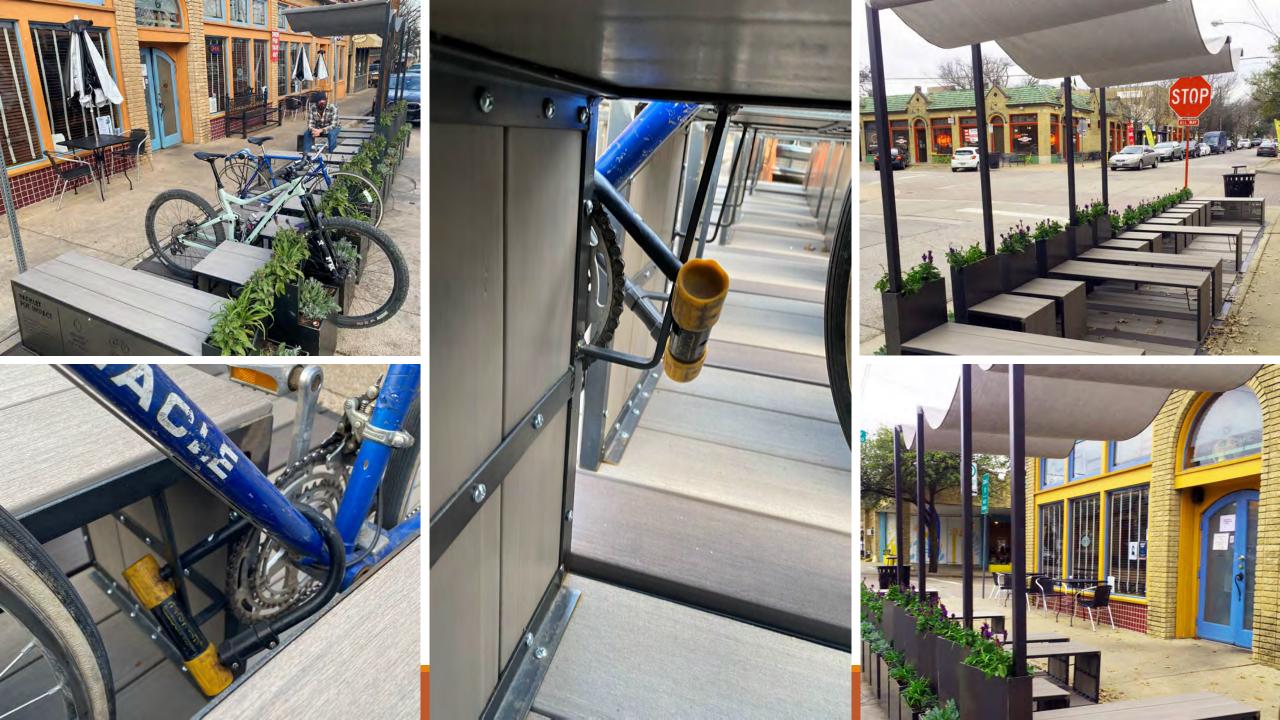












Thank You!

Contact

Kevin Kokes, AICP

Program Manager

kkokes@nctcog.org

Matt Fall

Senior Transportation Planner

mfall@nctcog.org

Open-sourced construction plans for the bicycle parking parklet available at:

nctcog.org/BlueGreenGrey bikedfw.org/parklet.html



Demand Zones for Walking and Bicycling

BICYCLE AND PEDESTRIAN ADVISORY COMMITTEE
MAY 19, 2021

JULIE ANDERSON, SR TRANSPORTATION PLANNER

Purpose of Demand Zones

Define and locate areas in the region with the potential highest demand for walking and bicycling

Integrate into the Mobility 2045 Plan Update

Use these areas to prioritize future investment for walking and bicycling infrastructure

Example: Atlanta Regional Commission



LIVE

Areas with higher population density have higher rates of walking and biking. Population density was analyzed at the census block level to identify areas of high and low population density.



WORK

Like population density, higher densities of workers translates to higher propensity for people to walk and bike. Employee density was analyzed at the block level to identify areas for high and low population density.



PLAY

Trails and parks are attractors and generators of walking and biking activity. Proximity to trails and parks was analyzed.



TRANSIT

More than 3/4 of all transit trips start or end with a walking trip



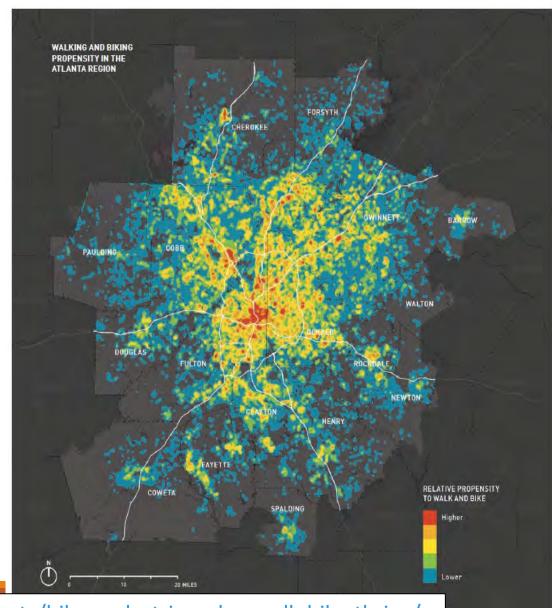
LEARN

Schools are a significant source of walking and biking by populations that either can't drive because they are not old enough or are more likely to walk or bike for economic reasons. Proximity to elementary, middle, and high schools, as well as universities, was analyzed.



SHOP

Retail shopping areas are also attractors for walking and biking trips. Density of retail jobs, which can be used as a proximity for density of stores, was used to analyze areas with higher retail density.





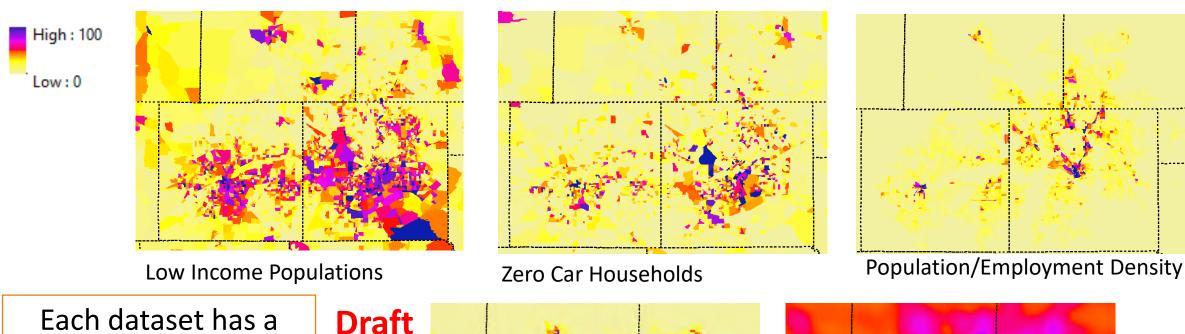
Criteria for Creating Demand Zones

Factors that most likely contribute to the desire or need to walk/bicycle

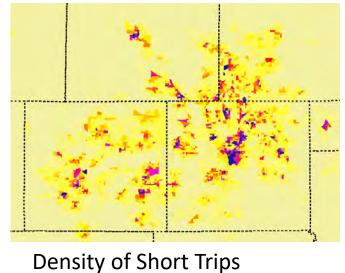
Criteria	Data Source	Data Boundary	Weight
Employment and Population Density	NCTCOG 2015 Employment and Population estimates (2015 ACS 5-year estimates)	Transportation Service Zone (TSZ), imputed from census block group	35%
High Density of Short Trips	2019 LOCUS location-based service data	Census block group	20%
Low-Income Populations (EJ)	2018 ACS 5-year estimates (NCTCOG EJI)	Census block group	15%
Zero Car Households	2018 ACS 5-year estimates (NCTCOG EJI)	Census block group	15%
Areas of High Congestion	Travel demand model forecast for Mobility 2045	Raster	15%

Note: when available, data sources will be updated with most recent Census data

Normalizing Data Over Different Ranges



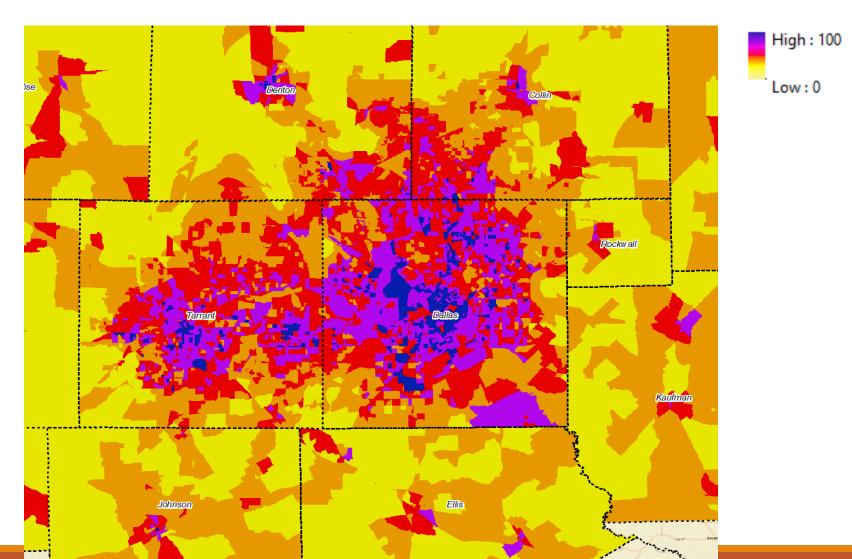
Each dataset has a different numerical range, so the values were normalized using ArcGIS tools to establish one scale range for all datasets



Areas of High Congestion

All datasets were then merged and weighted using ArcGIS tools to establish one dataset of demand zones

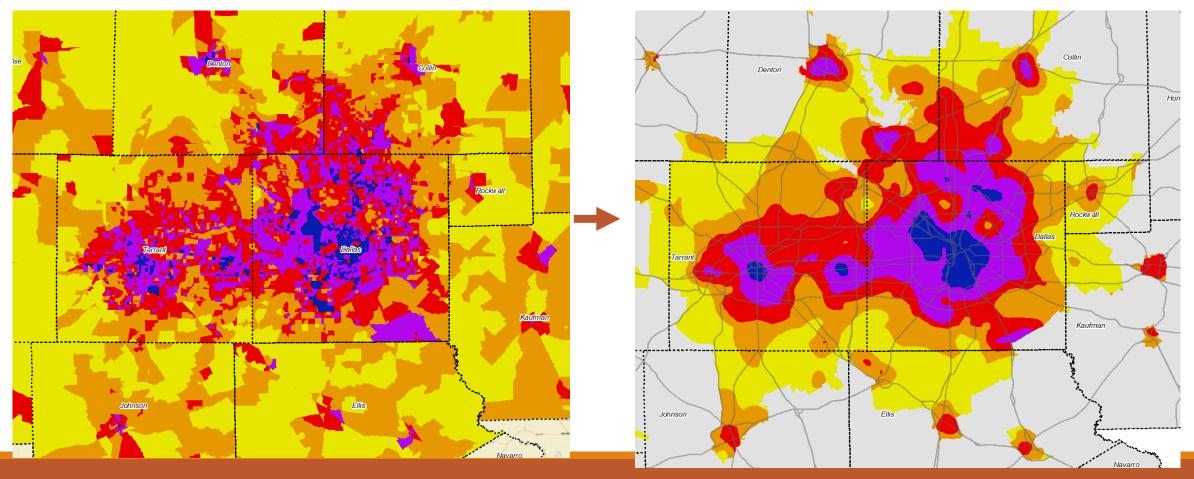
Draft



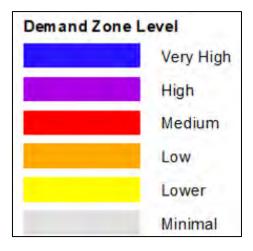
Group and Smooth the Output Raster Dataset

Focal Statistics tool used to smooth the raster

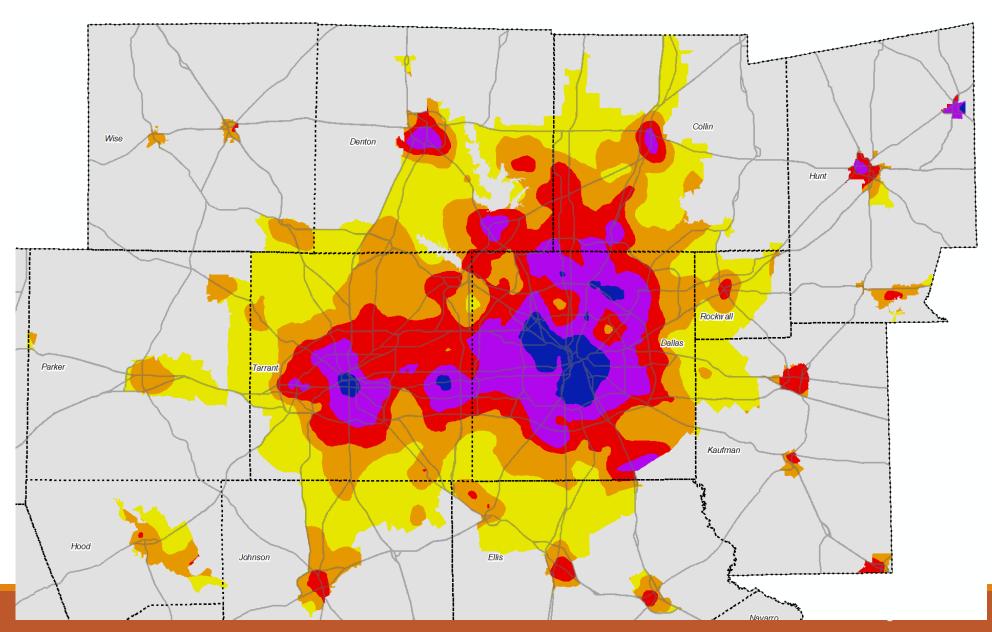
Aggregates and smooths the values with the surrounding areas and creates a larger homogenous zone



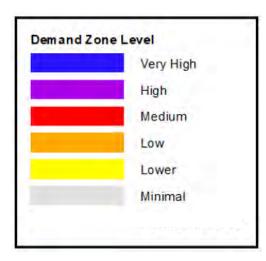
Demand Zones

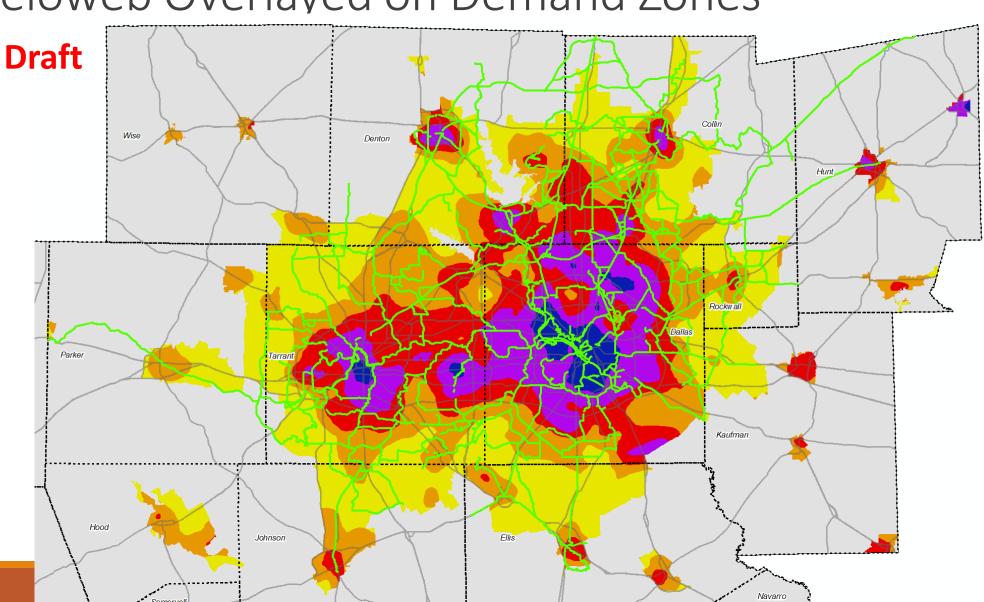


Draft



Current Planned, Funded and Existing Regional Veloweb Overlayed on Demand Zones





How the "Demand Zones" Could be Used

Regional Network (funding/implementation)

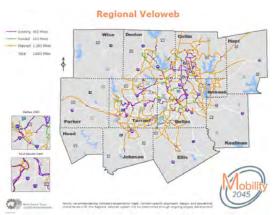
- ☐ Regional Veloweb network
- ☐ Regional on-street bikeway network

Local

- ☐ Prioritize access to transit stations/stops
- Prioritize connections to major trip generators such as:
 - Employment centers
 - Schools and Universities
 - Entertainment districts
 - Public Facilities (Community centers, public libraries, etc.)









Next Step

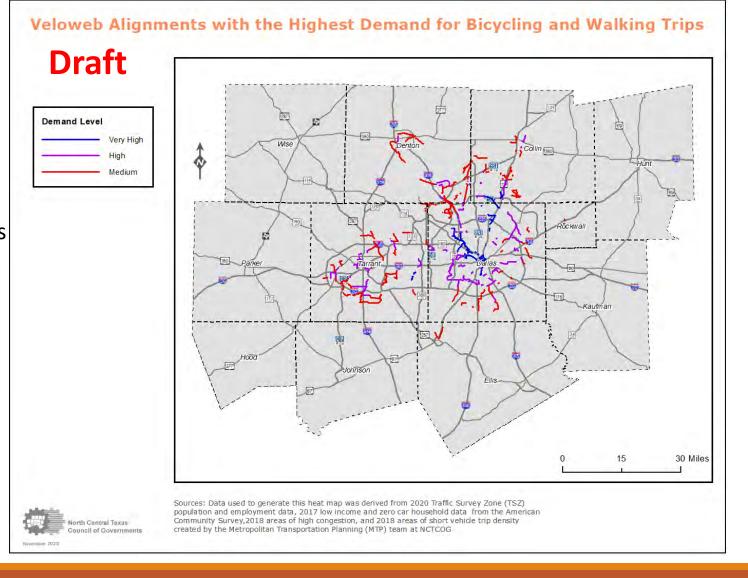
Using Demand Zones to Prioritize the Regional Network

Identify segments located within the highest Demand Zones. These alignments could be **further analyzed** to prioritize and rank segments for funding.

 Some segments may have a greater impact than others as fully connected transportation corridors,

OR

• Some segments may have more challenges than others to implement in the short term (next 10 years).



Project Schedule

May 18, 2016:	BPAC Briefing
	Introduction to need for demand zones, overview of examples from around the county, sample methodology
August 21, 2019:	BPAC Briefing
	Initial discussion of criteria to be used to identify priority zones for investment
May 19, 2021:	BPAC Presentation and Discussion
August 2021:	BPAC Discussion (Next Steps) Using Demand Zones to Prioritize the Regional Network
August 2021: 2021-2022:	. ,

Staff contacts:

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Best Practices for Trails and Bikeways GIS Fields and Attributes

Bicycle and Pedestrian Advisory Committee

May 19, 2021

Daniel Snyder, AICP

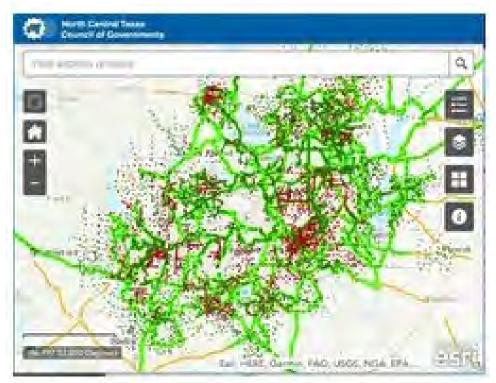


Integrating New and Updated GIS Fields and Attributes

Tips to consider for the preparation of GIS files for local plans/plan updates and including in contracts/agreements with consultants.

Maintaining an accurate inventory of trails and bikeways in the region is a strategic priority to aid in future planning efforts and in communicating with the public.

An accurate and well-maintained geodatabase is critical to utilize GIS analysis such as Network Analyst which measures connectivity.



Interactive Map of Trails and On-Street Bikeways: www.nctcog.org/veloweb

Trail Width

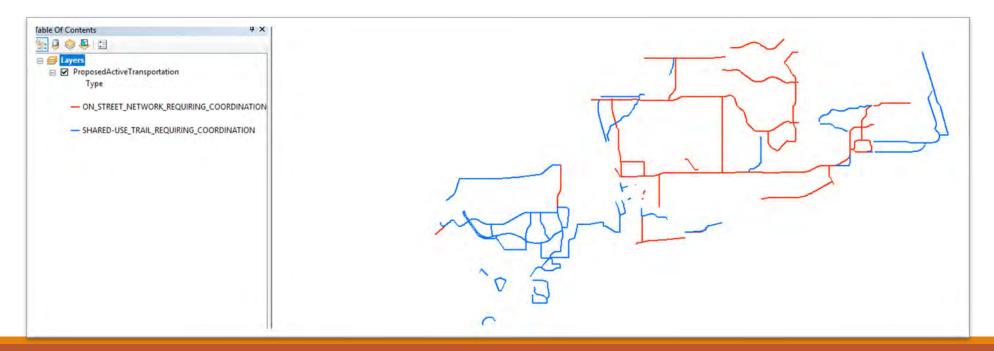
Only include trails that are 10 feet or wider, per AASHTO's established minimum bikeway width guidance (min. 10-14-foot width).



Facility Type

There should be a clear distinction in the fields and attributes between:

- "Off-street" bicycle facilities such as shared use paths, and
- "<u>On</u>-street" bikeways such as bike lanes



Off-Street Trail Alignments

"Off-street" trails are outside of a road's right-of-way and should be aligned to the most accurate location.





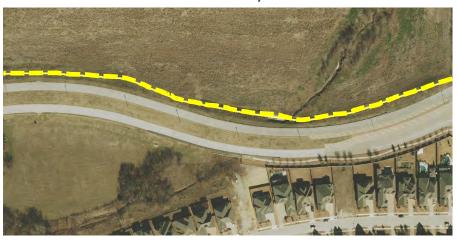
Off-Street "Sidepath" Alignments

"Off-street" sidepaths are within a road's right-of-way and should be digitized to the most accurate location.

Existing sidepath on both sides of the roadway



Funded sidepath on one side of the roadway



NOTE: Sidepaths must be a minimum of 10ft. Anything less is considered a wide sidewalk and will NOT be included in the Regional Veloweb map

On-Street Bikeway Alignments

"On-street" facilities (bike lanes etc.) to be digitized using the roadway centerline to designate the type of on-street accommodation (center line miles rather than lane miles).





Challenges: Does not display well on citywide or regional map





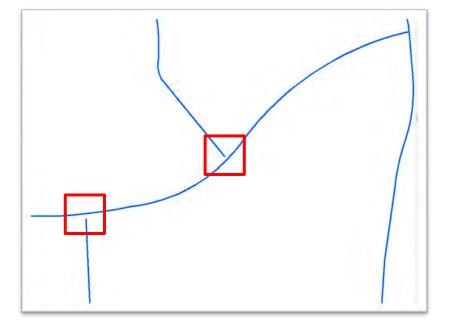
Correct On-Street bike facility digitization

Connectivity and Line Snapping

Avoid Gaps!

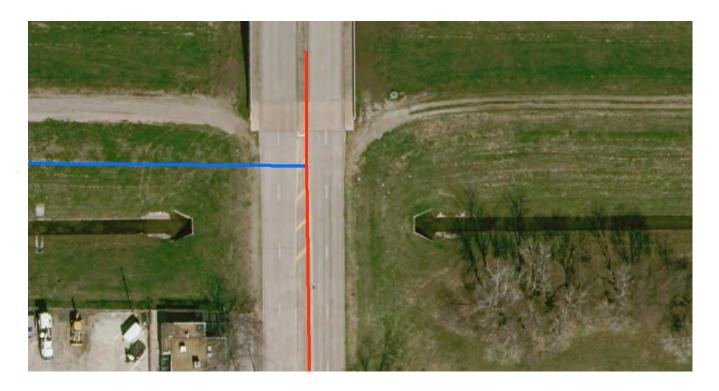
Feature lines should be continuous and connected with the rest of the network.





Off-Street Connected to an On-Street Facility

"Off-street" facility alignments should snap to an "On-Street" feature line vertex at intersections.



Recommended Fields and Attributes to Include in the GIS File

Attribute Field	Attribute Options	Description of Attribute
Status	Existing	An existing facility.
	Funded	A facility that has secured funding, however construction has not been completed.
	Planned	A facility that is planned according to the city's adopted plan, however, it does not have funding for construction.
On or Off Street	Off Street	Paths (or trails), including grade separated facilities like bridges or underpasses, located outside of the roadway.
	On Street	Bikeways located on the roadway adjacent to or shared with the motor vehicle travel lanes.
Trail Name	Varying	Trail alignment that has a trail name associated with it. This field will be blank if there is no associated trail name.
Facility Type* (Described in more detail on the next page.)	 Bike Lanes Buffered Bike Lanes Separated Bike Lanes Two Way Cycle Track Shared Lane Markings On-Street Paved Shoulder Shared Use Path Wide Sidewalk 	A classification that designates the type of path or bikeway in accordance with AASHTO or NACTO guidance. Definitions listed below.

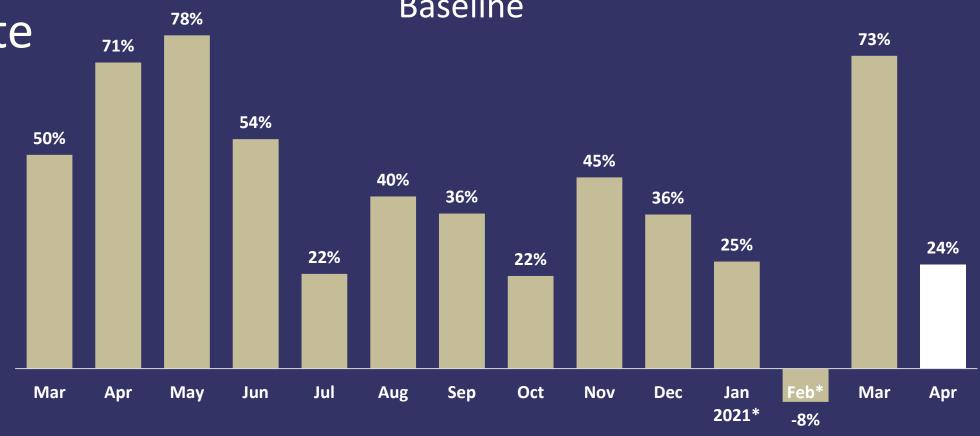
^{*}Facility Type as described by the NACTO *Urban Bikeway Design Guide (2011)* and AASHTO *Guide for the Development of Bicycle Facilities (2012)*:

Contact Information

Daniel Snyder, AICP
Transportation Planner
dsnyder@nctcog.org

Monthly Trail Usage Update

Increase in Full Week Trail Usage vs Baseline



Source: NCTCOG – collected at 8 sites located in Plano, North Richland Hills, Denton, Dallas, Fort Worth, and Allen.

Note: Baseline is March 2019-February 2020; No adjustments for weather were applied.

Note: Trail usage impacted in February 2021 by week-long winter storm.

Regional Database Trail Attributes

Bicycle and Pedestrian Advisory Committee
May 19, 2021
Daniel Snyder, AICP



Fields and Attributes Requested for Trail/Bikeway GIS Files

Attribute Field	Attribute Options	Description of Attribute
Status	Existing	An existing facility.
	Funded	A facility that has secured funding, however construction has not been completed.
	Planned	A facility that is planned according to the city's adopted plan, however, it does not have funding for construction.
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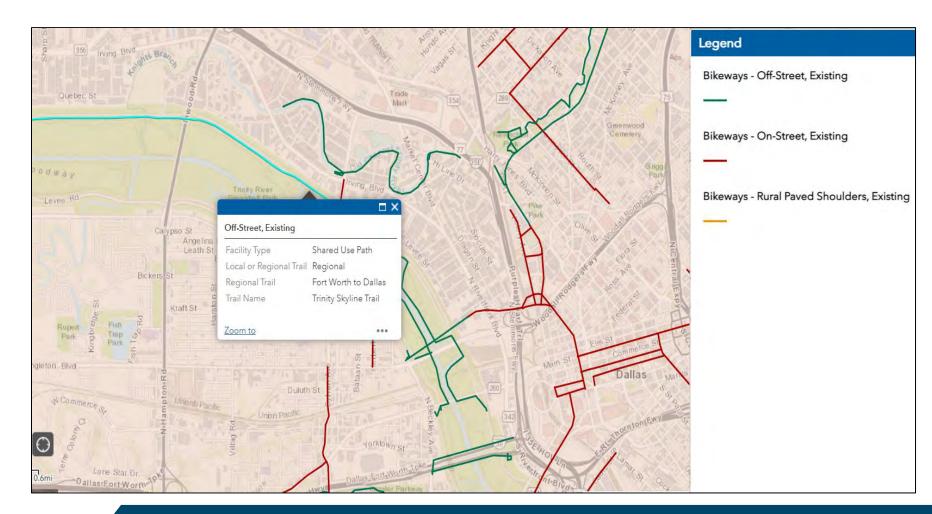
^{*}Facility Type as described by the NACTO *Urban Bikeway Design Guide (2011)* and AASHTO *Guide for the Development of Bicycle Facilities (2012)*:



Current and Potential Attributes in Online Map

Map Attributes

- On- or Off-Street
- Funding Status
- Facility Type
- Local or Regional Trail
- Regional Trail Name
- Trail Name





Focus of NCTCOG's Regional Database

 NCTCOG's database and online map reflect the information included in Mobility 2045, which is a "transportation" plan.

 The database and online map do not include recreation focused facilities. (Park loops, wide sidewalks, etc.)

Additional Information that Could be Added to the Regional Database as a Resource

 Soft surface trails (Does not meet ADA or AASHTO guidance for a shared use path.)

 Lighting (Is an enhancement to basic shared use path construction among other accommodations such as drinking fountains, benches, landscaping, etc.)

Others?



Poll

Question 1

Is there a benefit of including surface type and lighting with the regional network database?

- a. Yes
- b. No
- c. Not sure

Question 2

 In the chat box please provide any other relevant trail or bike facility information for transportation planning purposes.

Question 3

Can your agency provide NCTCOG with the data (Surface type, Lighting, Other suggested data) on an ongoing basis?

- a. Yes
- b. No



Additional Information

Please provide this PowerPoint presentation to your GIS staff for reference purposes.

Contact Info: Daniel Snyder, AICP dsnyder@nctcog.org

Mobile Bicycle and Pedestrian Count Equipment

Bicycle and Pedestrian Advisory Committee
May 19, 2021
Daniel Snyder, AICP



Mobile Counter Loan Program

Off-Street Counters

Two sets of Off-Street Counters

 Each set contains one tube counter and one infrared

sensor



On-Street Counters

Two sets of On-Street Counters

Each set contains two tube

counters



What is the most significant barrier for your agency borrowing and installing NCTCOG's mobile count equipment?

- a. Unsure about where to perform a count
- b. Lack of staff to coordinate, install, and maintain the mobile counters
- c. Lack of time and/or the amount of effort to coordinate these activities
- d. There is no barrier

At the regional level, what case studies from mobile count data would be the most insightful for planning in your community?

- a. Before and after counts of new infrastructure projects
- b. Baseline counts on different types of facilities
- c. Baseline counts on the same type of facility in different contexts (rural, suburban, urban)

What season would your agency most prefer to collect mobile count data?

- a. Winter
- b. Spring
- c. Summer
- d. Fall
- e. No preference

Contact Information:

If interested in borrowing the mobile count equipment, please reach out to Daniel Snyder to get the process started!

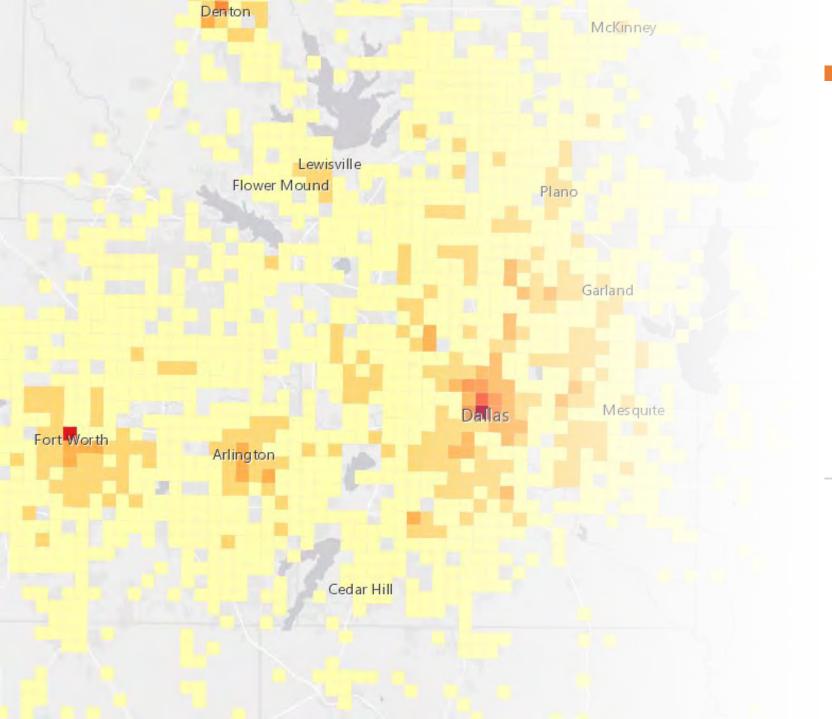
Daniel Snyder, AICP

Transportation Planner dsnyder@nctcog.org

Kevin Kokes, AICP

Program Manager

kkokes@nctcog.org

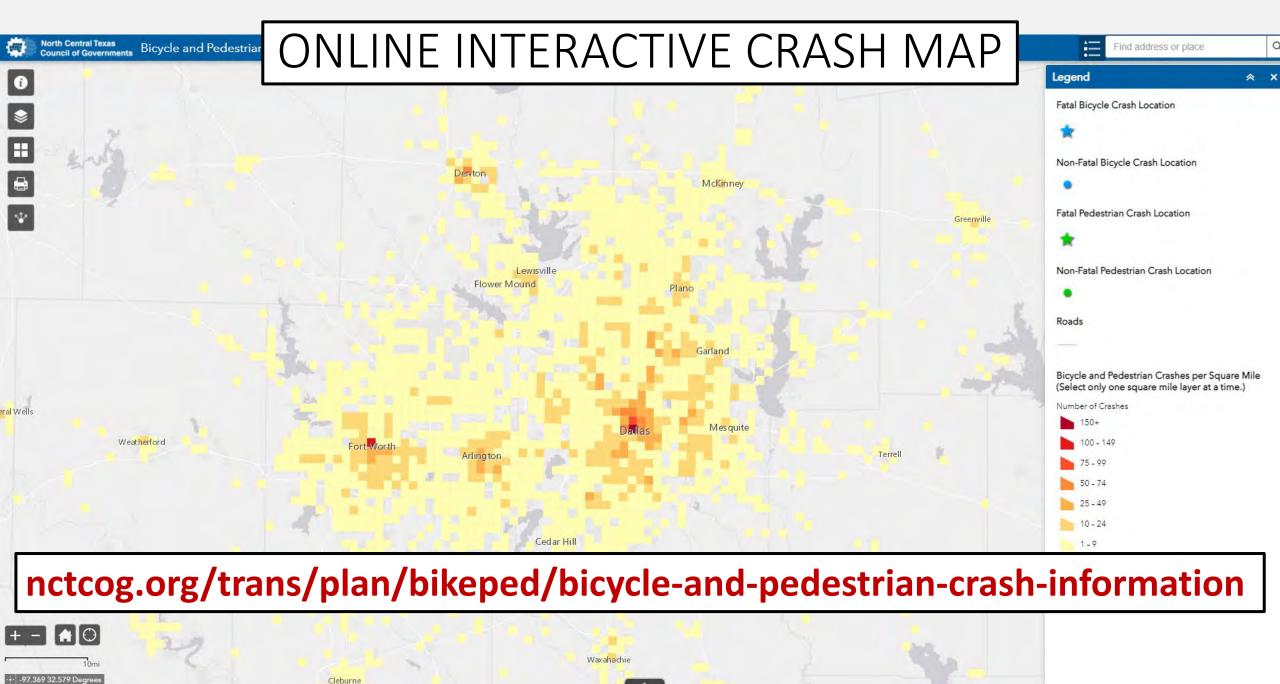


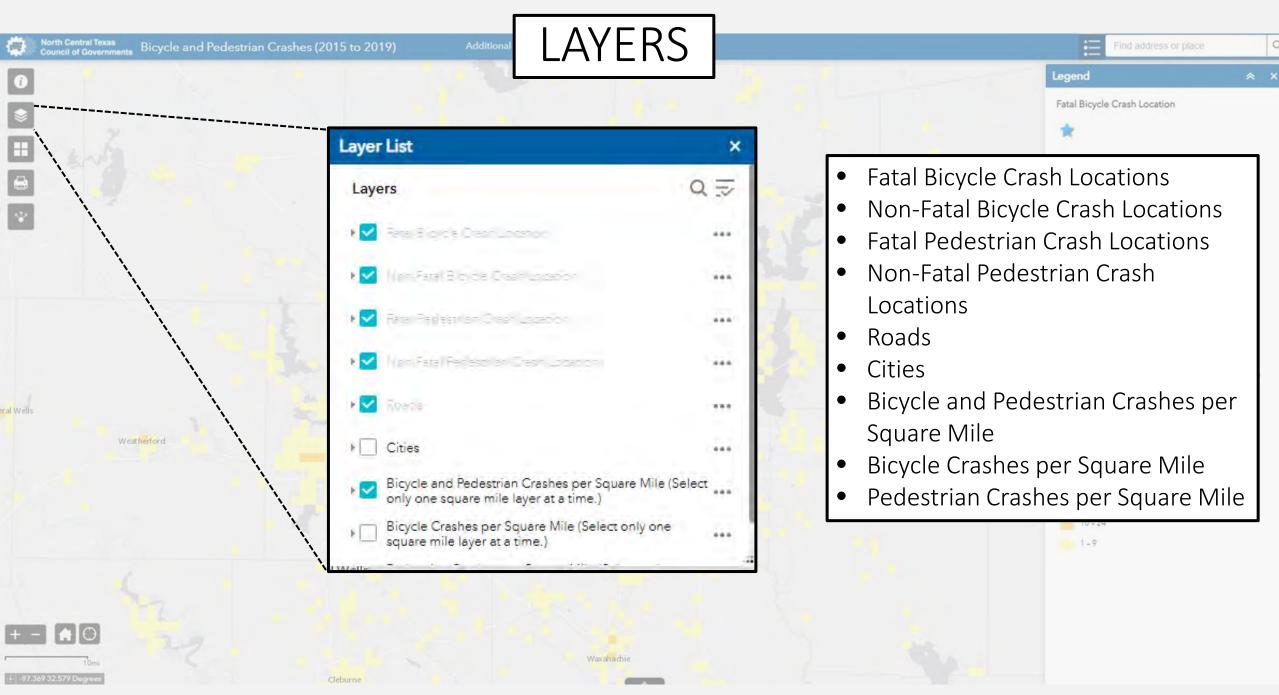
Online Bicycle and Pedestrian Crash Map

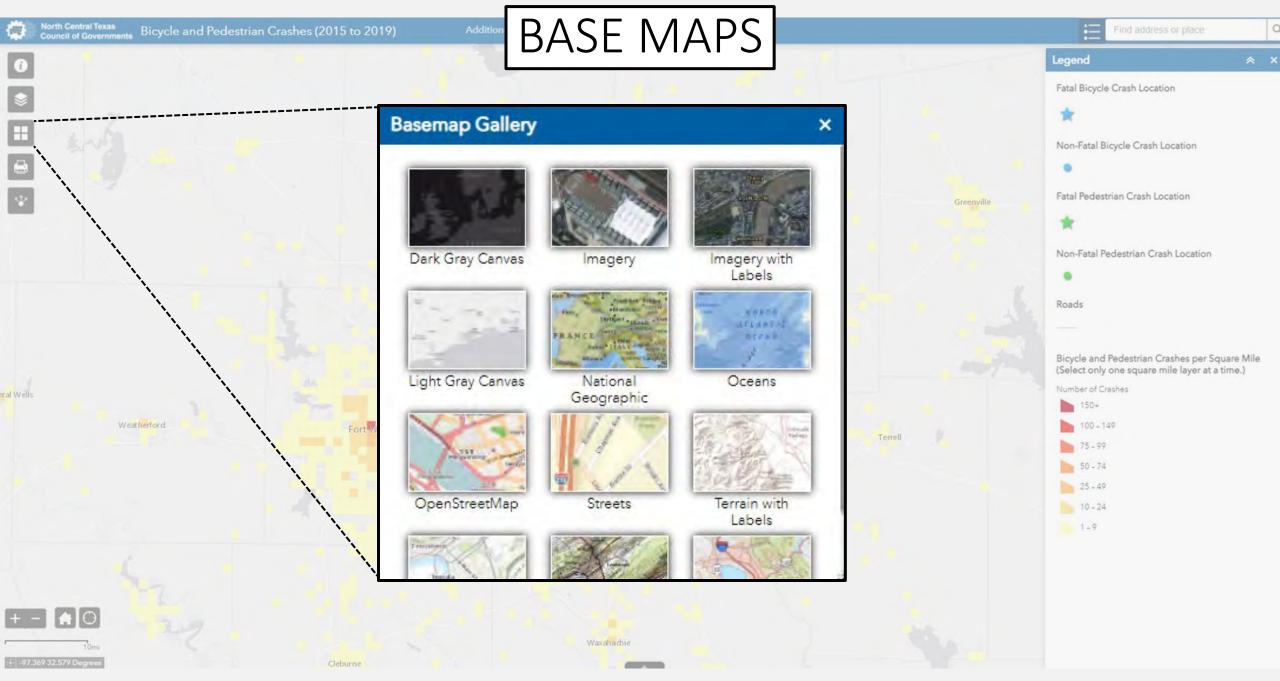
Bobby Kozub

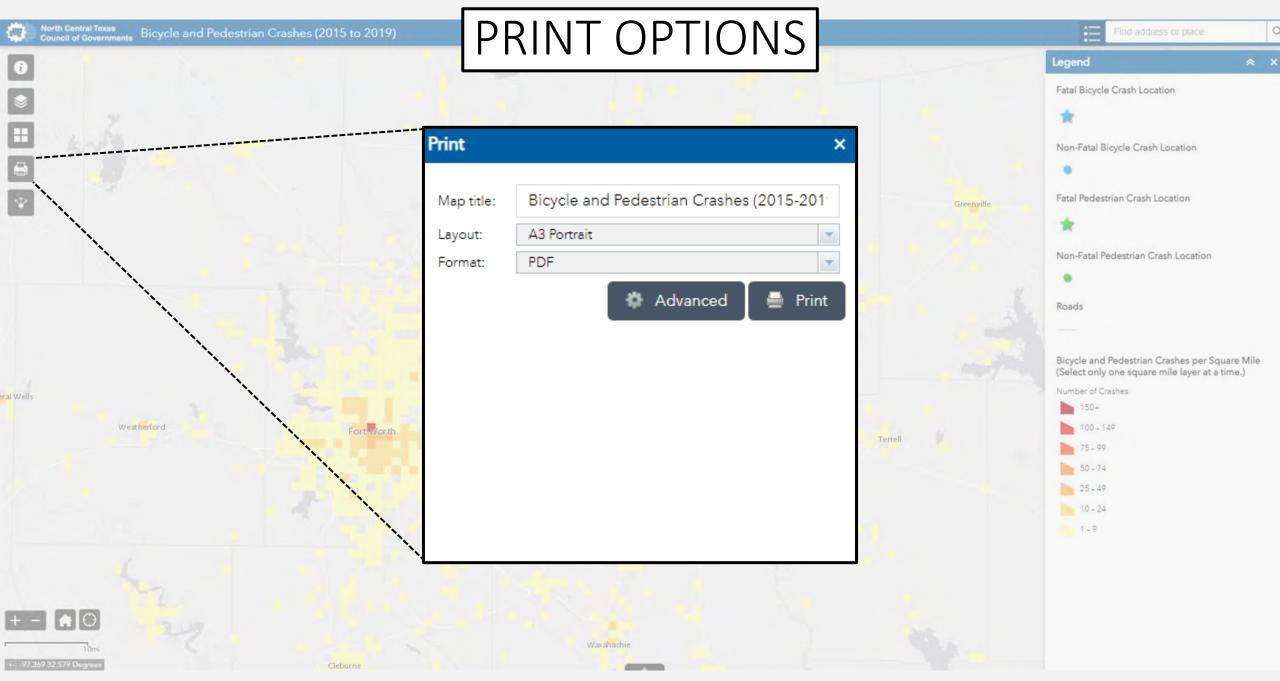
NCTCOG - Transportation Planner

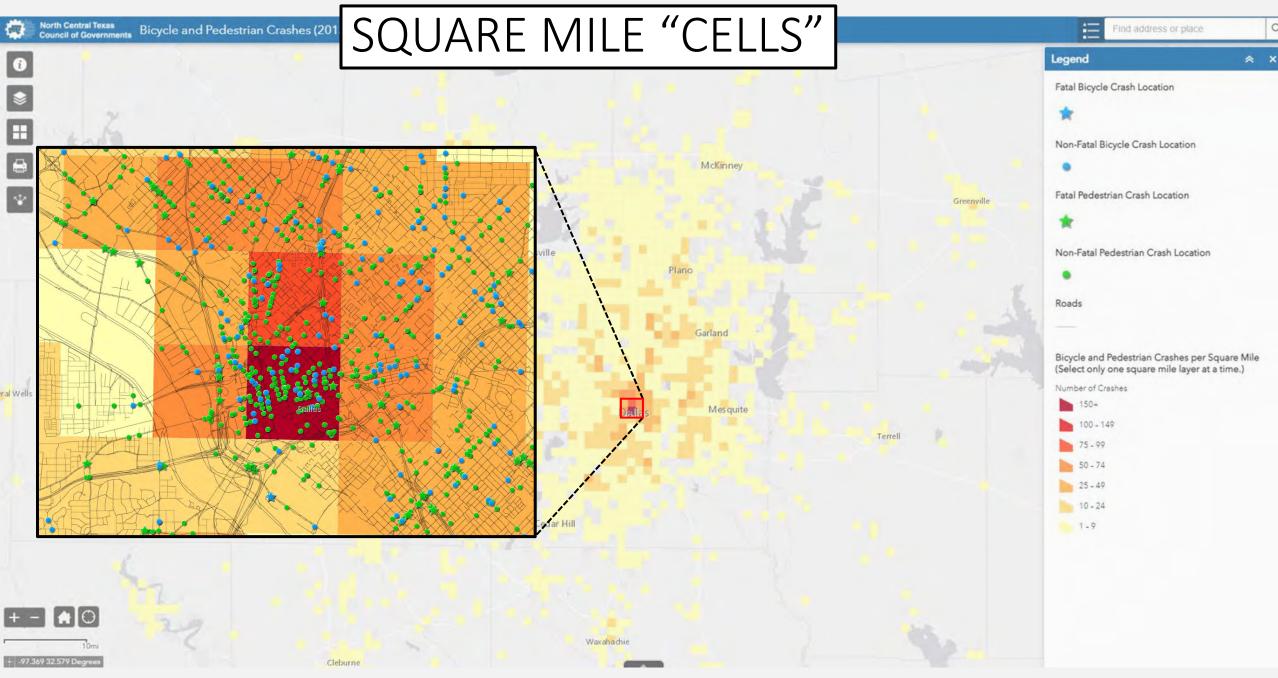
2/24/2021

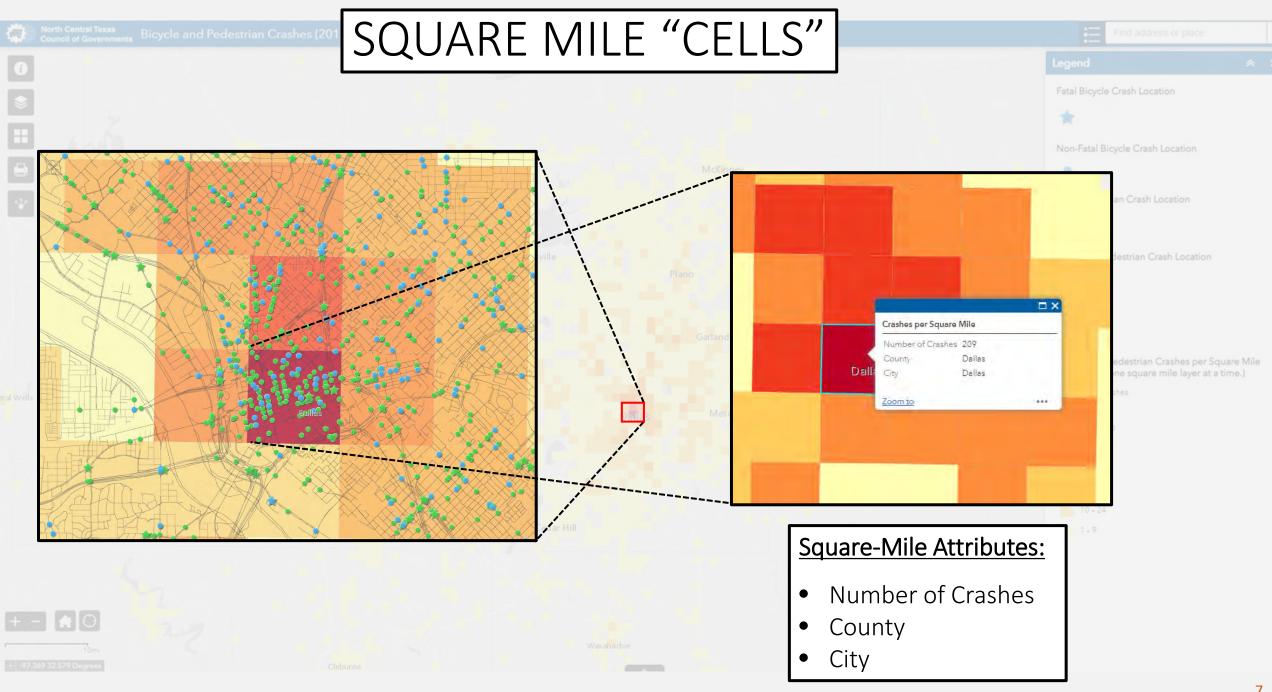


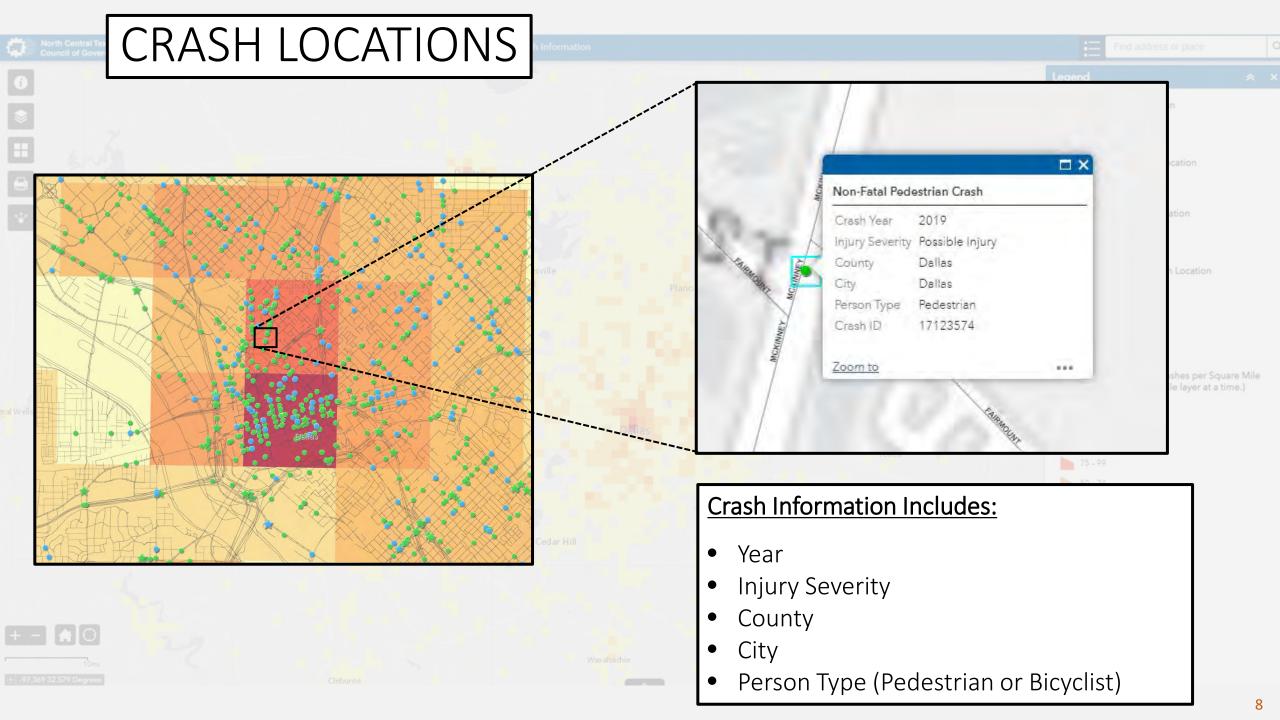












LINK IN CHAT!

For any questions, please reach out to:

Bobby Kozub

rkozub@nctcog.org

nctcog.org/trans/plan/bikeped/bicycle-and-pedestrian-crash-information

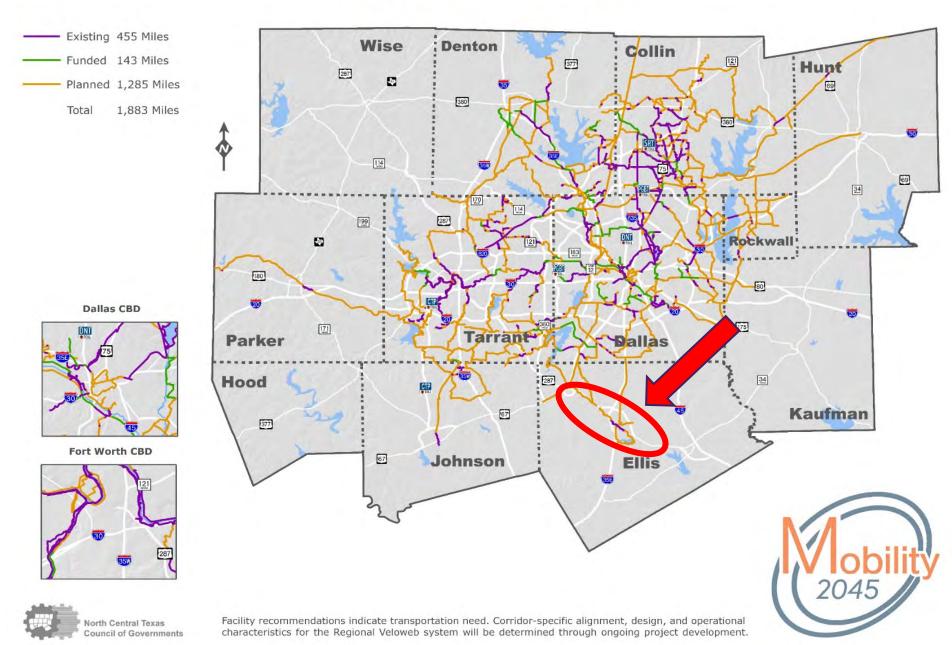


Regional Veloweb Trail Implementation





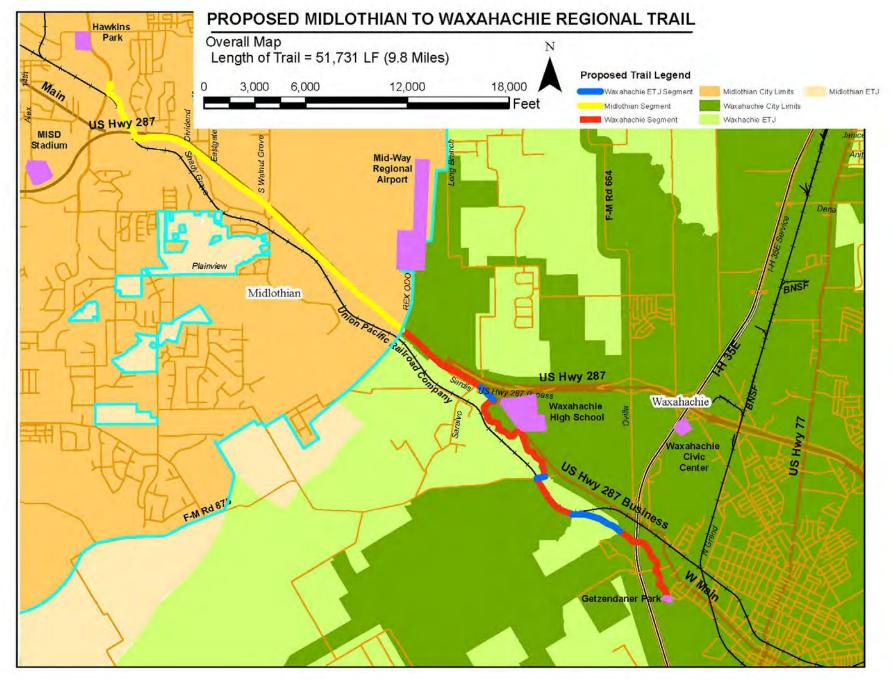
Regional Veloweb



Ellis County

(Midlothian to Waxahachie)

Project Area	9.8 miles	
US 287	5.2 miles	
Off-System	4.6 miles	
Scope of Work	15% preliminary engineering	
Opinions of Probable Construction Cost (2020)	\$12.4 million	



Denton to Dallas Regional Veloweb Trail

nctcog.org/Den_DallasTrail

Project Area	57 miles	
Counties	2	
Cities	9	
Light Rail and Commuter Rail Stations	DART Green Line and DCTA A-Train	
Existing Trail	37 miles	
Funded Trail	12 miles	
Planned Trail	8 miles	

<u>Preliminary Engineering (completed in 2020)</u>

Approx. 8 mi. from DCTA Hebron Station to Campion Trail (Coppell / Irving) and 3 miles of trail connections

- o <u>Transportation Agencies</u>: DCTA, DART, TxDOT, NTTA
- O Cities: Lewisville, Carrollton, Coppell, Dallas
- O Counties: Denton Co. and Dallas Co.

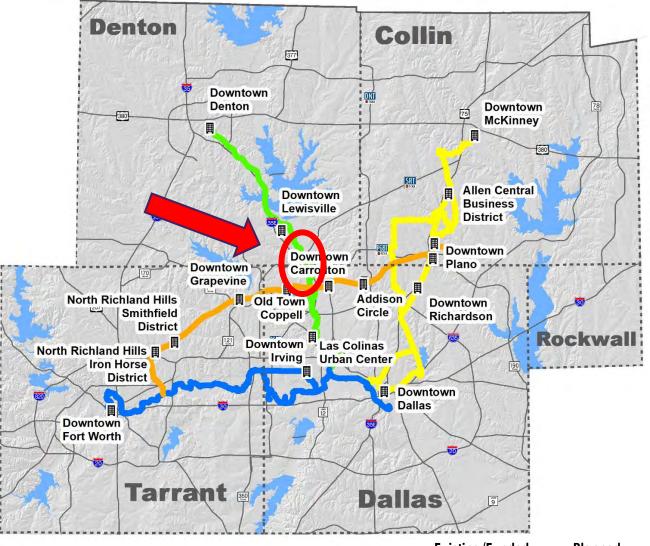
Denton to Dallas Regional Trail

Total Length: 52 Miles





Highlighted Regional Trail Corridors



		<u>Existing/Funded</u>	<u>Planned</u>	<u>Total</u>
	Fort Worth to Dallas Regional Trail Corridor	62.7 miles	2.9 miles	65.6 miles
1	Cotton Belt Regional Trail Corridor	37.9 miles	16.6 miles	54.8 miles
Y	Oallas to McKinney Regional Trail Corridor	67 miles	15 miles	82 miles
•	Oenton to Dallas Regional Trail Corridor	49 miles	8 miles	57 miles

Regional Veloweb Trail to Rail Stations

(Lewisville, Carrollton, Coppell)

PRELIMINARY ENGINEERING FOR REGIONAL VELOWEB TRAIL CONNECTIONS TO RAIL STATIONS IN DENTON AND DALLAS COUNTIES

Overall Cost Estimate Summary (2020)

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST (15% SCHEMATIC SET)

**ALL 2020 BASE BID TOTALS INCLUDE A 20% CONTINGENCY

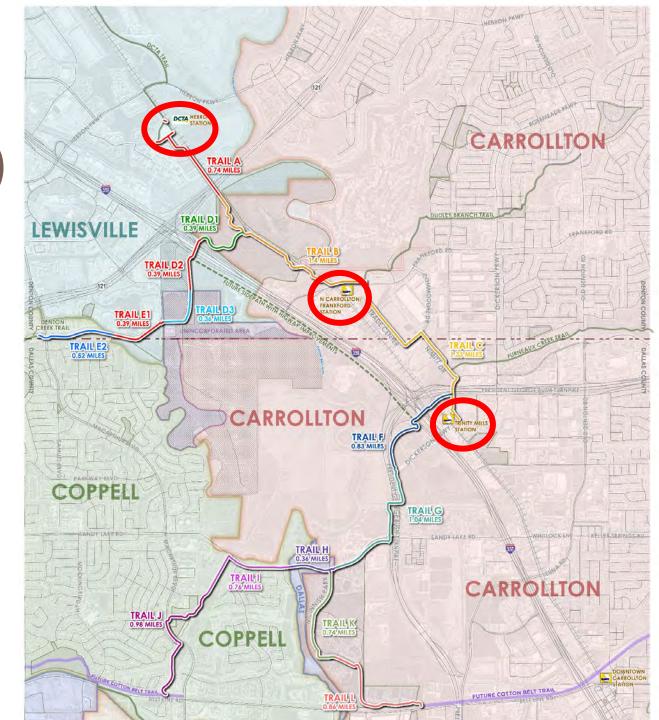
TRA	AIL SEGMENT
A (391	5 LF = 0.74 Miles)
B (741	8 LF = 1.40 Miles)
C (700	9 LF = 1.33 Miles)
D1 (20	63 LF = .39 Miles)
D2 (20	51 LF = .39 Miles)
D3 (19	17 LF = .36 Miles)
E1 (208	82 LF = .39 Miles)
E2 (27	61 LF = .52 Miles)
F (4374	4 LF = 0.83 Miles)
G (547	3 LF = 1.04 Miles)
H (188	5 LF = 0.36 Miles)
1 (3994	LF = 0.76 Miles)
J (5188	B LF = 0.98 Miles)
K (390	0 LF = 0.74 Miles)
L (4563	3 LF = 0.86 Miles)
RAND	TOTAL 2020 (11.09

	TOTAL ESTIMATED COST - 2020	
IURISDICTION	12' WIDE TRAIL at 5-YEAR FLOOD ELEVATION	
Lewisville	\$ 2,066,830.00	
Carrollton	\$ 6,494,930.80	
Carrollton	\$ 4,501,120.00	
Carrollton	\$ 3,729,220.00	
Lewisville	\$ 2,624,576.00	
Unincorporated	\$ 1,186,556.40	
Lewisville	\$ 796,384.80	
Coppell	\$ 1,151,113.60	
Carrollton	\$ 2,760,470.73	
Carrollton	\$ 2,312,419.20	
Dallas	\$ 990,301.00	
Coppell	\$ 1,021,965.73	
Coppell	\$ 1,268,134.00	
Carrollton	\$ 869,731.20	
Carrollton	\$ 852,670.00	
	\$ 32,626,423.47	

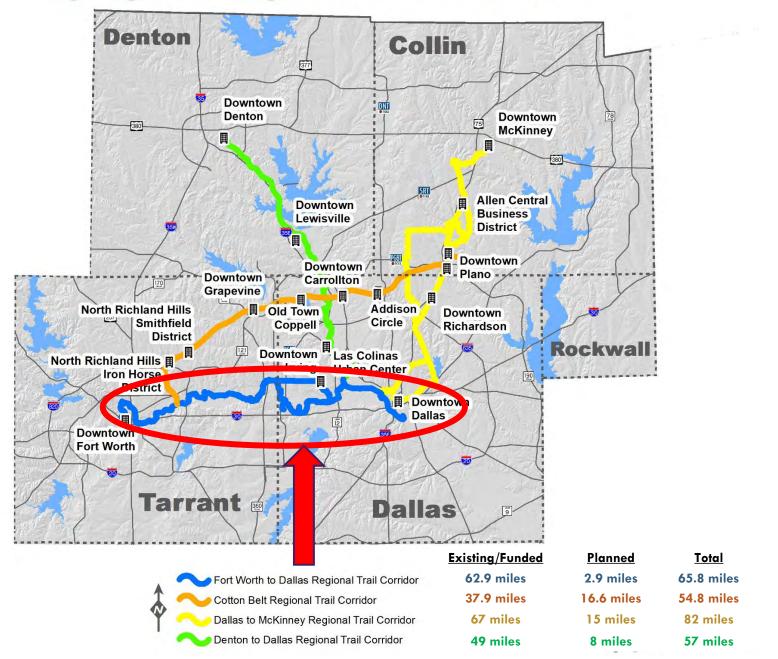
TRAIL	SEGMENT TOTAL
	PER CITY
	6.59 Miles
	2.26 Miles
	0.36 Miles
	0.36 Miles
	1.52 Miles

JURISDICTION
Carrollton
Coppell
Dallas
Unincorporated
Lewisville

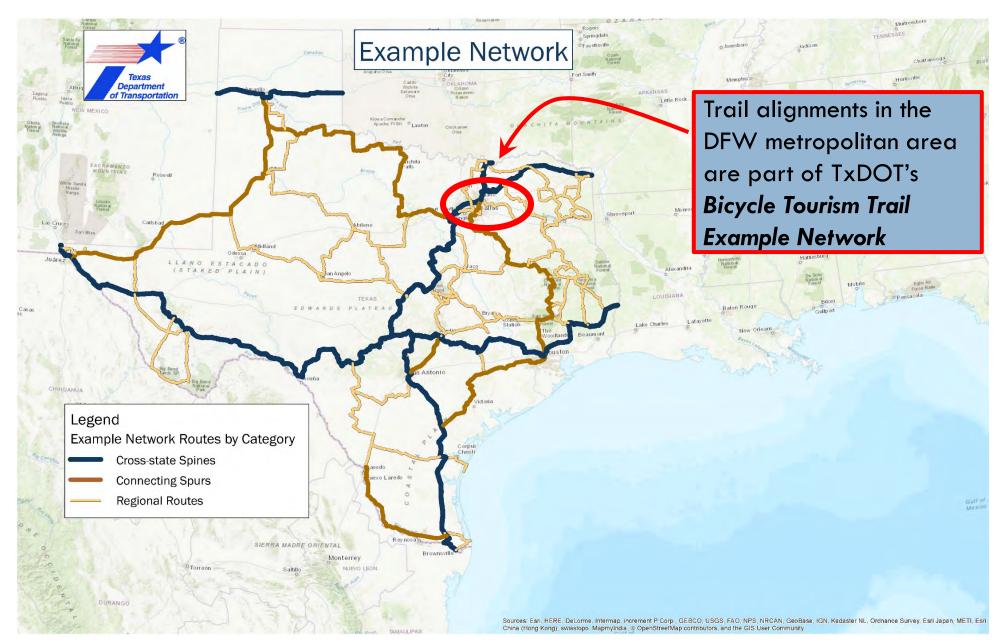
IOTA	L ESTIMATED COST PER CITY
	\$ 21,520,561.93
	\$ 3,441,213.33
	\$ 990,301.00
	\$ 1,186,556.40
	\$ 5.487.790.80

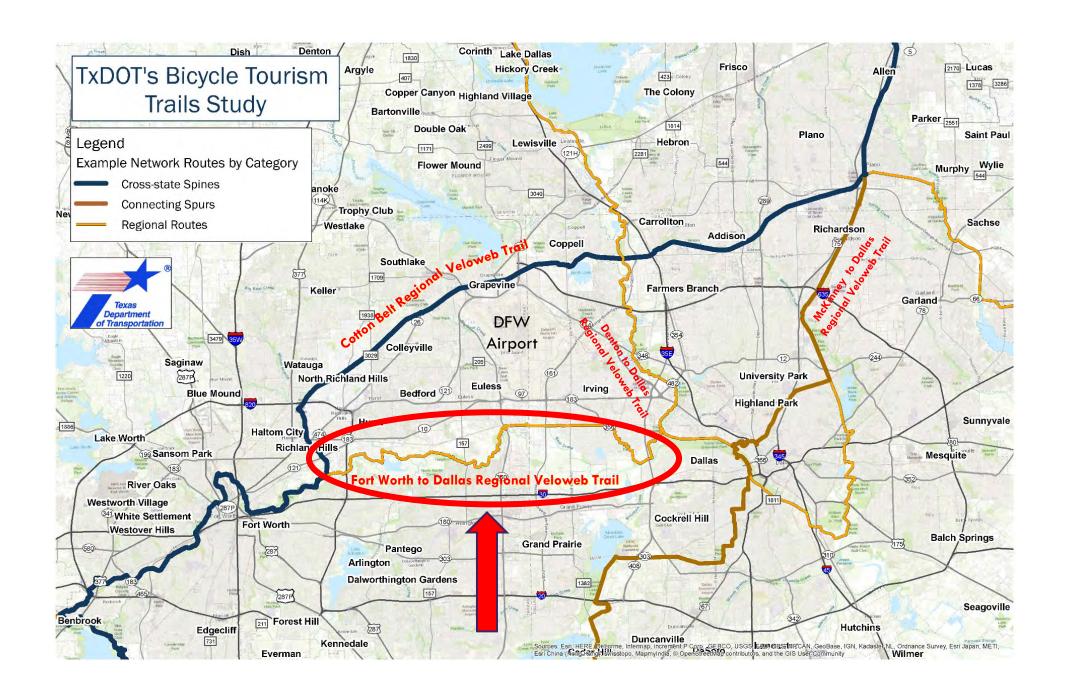


Highlighted Regional Trail Corridors



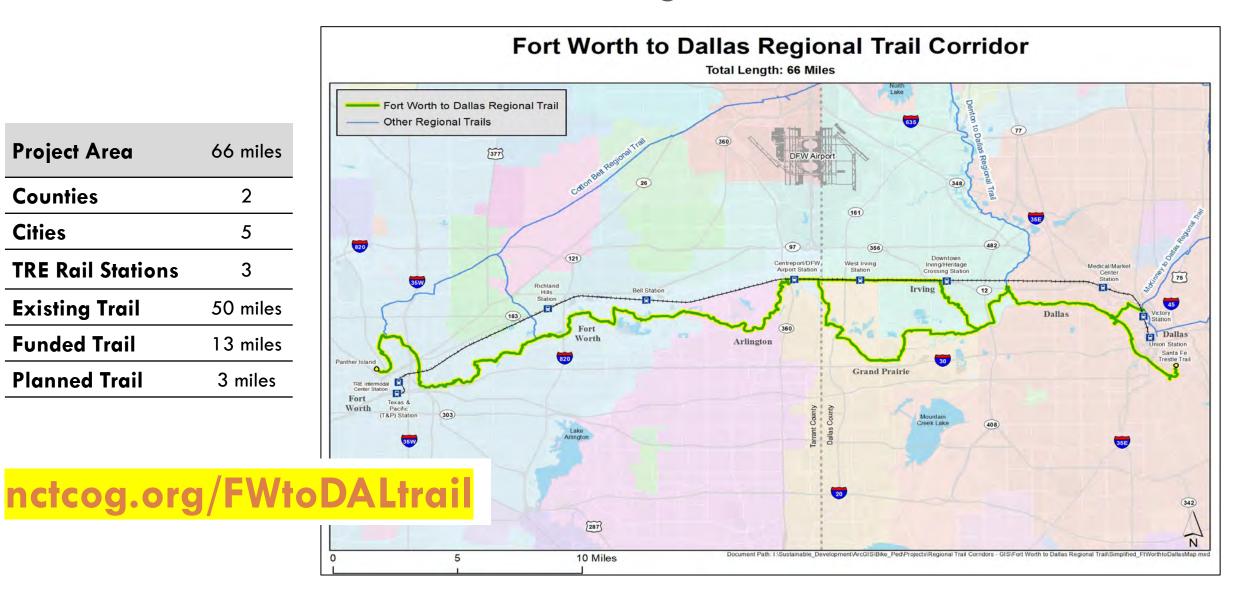
TxDOT's Bicycle Tourism Trails Study





Fort Worth To Dallas Regional Veloweb Trail

Project Area	66 miles	
Counties	2	
Cities	5	
TRE Rail Stations	3	
Existing Trail	50 miles	
Funded Trail	13 miles	
Planned Trail	3 miles	



Regional Trail Naming Competition Arlington River Legacy Trail Miles Destination A 1.5 Mi. Destination B 7.5 Mi. Destination C 16 Mi. Destination D 21 Mi. Regional Trail Logo to be created

Trail Branding



San Antonio Mission Trail

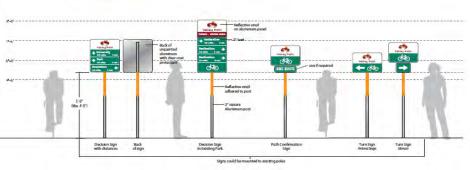


East Coast Greenway



Indianapolis Cultural Trail





BeltLine Trail - Atlanta



Razorback Trail - Northwest Arkansas



Louisville Loop



Schedule and Next Steps (Fort Worth to Dallas Regional Trail)

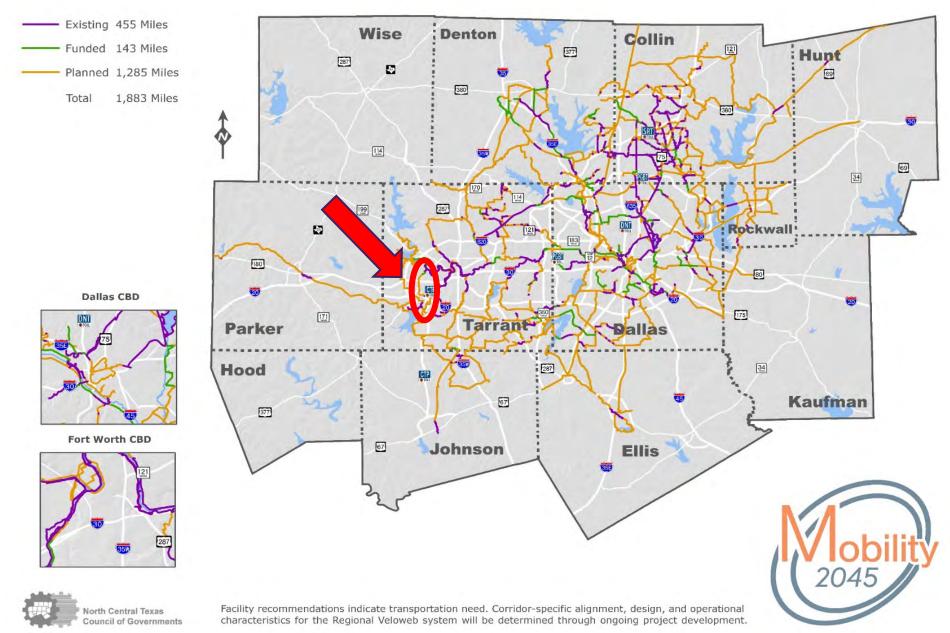
February 2019	Initial Coordination Meeting Conventions & Visitor Bureau Depts	
April 2019	Meeting with Mayors at NCTCOG (Branding/Marketing Initiative)	
<mark>2021</mark>	Develop branding/marketing plan	
2022	Fabricate and install wayfinding signage and regional 911 emergency signage (installation as each trail section is completed)	
2022	Purchase and install real-time display counters	
December 2023	Complete construction of the final trail sections and celebrate with a regional ribbon cutting event for the entire corridor	



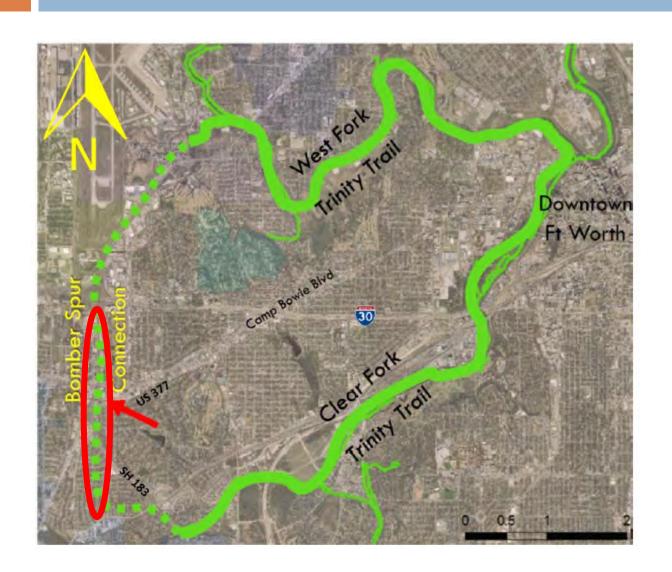
April 2019

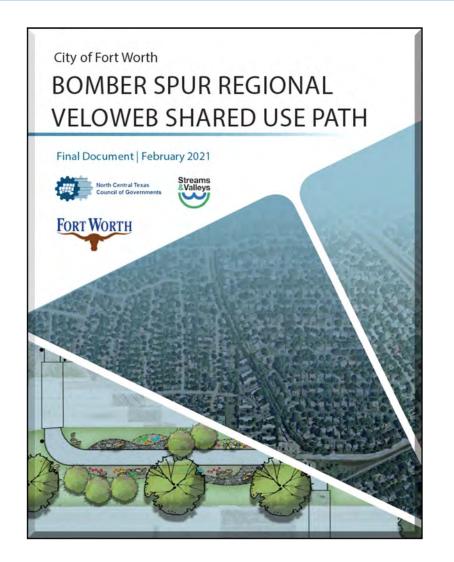


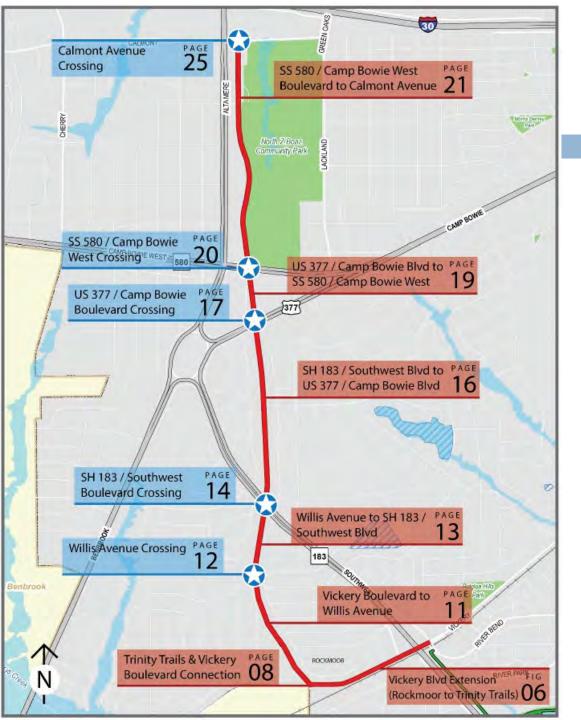
Regional Veloweb



Fort Worth Bomber Spur Trail (Prelim. Engineering)







Fort Worth Bomber Spur Trail (Prelim. Engineering, cont.)

Project Limits:

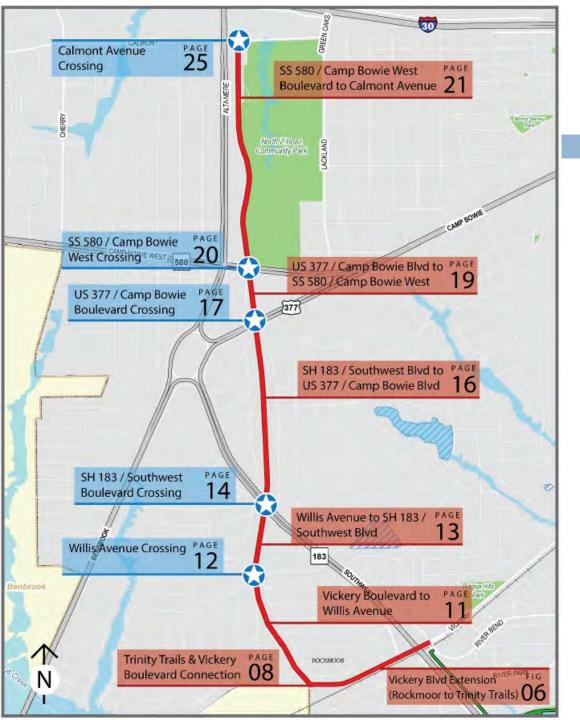
Calmont Ave. to SH183/W Vickery Blvd. intersection (3.1 miles)

Scope of Preliminary Design:

- 12 ft.-wide hard surface path
- Roadway crossings and safety measures
- 30% design
- right-of-way and easement requirements

<u>Partnership:</u>

City of Fort Worth, Streams & Valleys, Inc.
 and NCTCOG



Fort Worth Bomber Spur Trail (Prelim. Engineering, cont.)

Opinions of Probable Construction Cost:

Base Design (2020)	
Base Construction Sub Total	\$5,014,680
Construction Contingency (25%)	\$1,254,100
Engineering Survey, SUE, Environments (15%)	\$940,700
City Project Management, Inspections, Material Testing (6%)	\$376,500
Base Sub Total	\$7,585,980
Trail Bridge Alternative (SH 183/Southwest Blvd.)	+\$5,535,300
Upgraded Bridge Aesthetics Allowance	+\$400,000
Public Art Allowance	+\$63,000
Vickery Extension	+\$855,000

nctcog.org/trans/plan/bikeped/planningprojects



Questions

Kevin Kokes, AICP Program Manager

kkokes@nctcog.org



nctcog.org/Veloweb

** Home > Transportation > Regional Planning & Projects

Trails and On-Street Bikeways Network

Many cities and counties in the region have developed and adopted bicycle master plans, trail master plans, or a combination of both. Various communities are also developing plans for local pedestrian networks and programs to provide safe routes to schools. Numerous cities and transportation agencies have adopted local policies for bicycle accommodations to encourage bicycling as a form of transportation. The number of locally adopted community bicycle and trail master plans in the region grows each year. These documents were used in the development of **Mobility 2045** to ensure regional connectivity and continuity.

The active transportation network in the region consists of 7,303 miles of regional shared-use paths (Regional Veloweb), supporting community shared-use paths, and the on-street bikeway network (including on-street wide shoulders in rural areas) in various stages of development. This network plays a key role in supporting Mobility 2045 and the implementation of the multimodal Complete Streets and transit infrastructure that assist in safely accommodating all travelers throughout the region. **Local trails** make up 775 miles of this network, with many more planned.

Regional Planning & Projects

Congestion Management

Maps, Models & Data

Quality of Life

Funding & Business

Plans, Studies, Reports

Get Involved

About Transportation

Combined Network Map
Combined Network Miles by Facility Status
Demographic Statistics [PDF]

Regional Network

Highlighted Regional Trails

Interactive Map of Trails and On-Street Bikeways

The interactive map below displays existing, funded and planned trails and bikeways in the 12-county Metropolitan Planning Area adopted as part of Mobility 2045.

(Chrome or Firefox browsers are recommended for viewing this map.)