

River to Sea TPO BPAC Meeting

April 10, 2024 2:00 p.m.



BPAC Meeting April 10, 2024

I. CALL TO ORDER/ROLL CALL/DETERMINATION OF QUORUM/ PLEDGE OF ALLEGIANCE





BPAC Meeting April 10, 2024

II. PUBLIC COMMENT/PARTICIPATION



BPAC Meeting April 10, 2024

III. ACTION ITEMS

A. REVIEW AND APPROVAL OF THE MARCH 13, 2024 BPAC MEETING MINUTES



BPAC Meeting April 10, 2024

III. ACTION ITEMS

B. REVIEW AND RECOMMEND APPROVAL OF RESOLUTION 2024-## ADOPTING THE FY 2024/25 AND FY 2025/26 UNIFIED PLANNING WORK PROGRAM (UPWP) AND AUTHORIZING THE EXECUTION OF THE FDOT/MPO AGREEMENT (ROLL CALL VOTE REQUIRED)

RIVER TO SEA TRANSPORTATION PLANNING ORGANIZATION

RESOLUTION 2024-##

RESOLUTION OF THE RIVER TO SEA TRANSPORTATION PLANNING ORGANIZATION ADOPTING THE FISCAL YEAR (FY) 2024/25 AND 2025/26 UNIFIED PLANNING WORK PROGRAM (UPWP)

WHEREAS, Florida Statutes 339.175; 23 U.S.C. 134; and 49 U.S.C. 5303 require that the urbanized area, as a condition to the receipt of federal capital or operating assistance, have a continuing, cooperative, and comprehensive transportation planning process that results in plans and programs consistent with the comprehensively planned development of the designated urbanized area; and

WHEREAS, pursuant to 23 U.S.C. 134, 49 U.S.C. 5303, 23 CFR 450.310, and Florida Statutes 339.175, the River to Sea Transportation Planning Organization (TPO) is the duly designated and constituted body responsible for carrying out the urban transportation planning and programming process for Volusia County and a portion of Flagler County as defined by the Metropolitan Planning Area; and

WHEREAS, pursuant to 23 U.S.C. 134, 23 CFR 450, and Florida Statutes 339.175, require the River to Sea TPO and the Florida Department of Transportation (FDOT) to enter into an agreement clearly identifying the responsibilities for cooperatively carrying out the Federal Highway Administration (FHWA) portion of the Metropolitan Planning Process and accomplishing the transportation planning requirements of state and federal law; and

WHEREAS, the River to Sea TPO shall endorse and amend as appropriate, the plans and programs required by 23 C.F.R. 450.300 through 450.324 and Florida Statutes 339.175, among which is the Unified Planning Work Program (UPWP); and

WHEREAS, the Unified Planning Work Program (UPWP) is a two-year work plan that identifies federal funding available to the TPO including metropolitan planning funds (PL Funds) authorized under 23 USC 104(f), and Urban Attributable (SU) funds; and

WHEREAS, 23 C.F.R. 450.104 provides that the River to Sea TPO shall bi-annually develop and endorse the Unified Planning Work Program (UPWP).

Now, Therefore, Be It Resolved by the River to Sea Transportation Planning Organization (TPO) that:

- 1. The tasks in the FY 2024/25 and 2025/26 UPWP are consistent with the area transportation plan; and
- 2. The FY 2024/25 and 2025/26 UPWP is hereby endorsed and adopted; and
- 3. The Chairperson of the River to Sea TPO (or his designee) is hereby authorized and directed to submit the FY 2024/25 and 2025/26 UPWP to the:

River to Sea TPO Resolution 2024-## Page 2

- a. Florida Department of Transportation;
- b. Federal Transit Administration (through the Florida Department of Transportation); and the
- c. Federal Highway Administration (through the Florida Department of Transportation); and the

RIVER TO SEA TRANSPORTATION PLANNING ORGANIZATION

d. Federal Aviation Administration.

DONE AND RESOLVED at the regularly convened meeting of the River to Sea TPO held on the $\underline{24^{th}}$ day of \underline{April} , $\underline{2024}$.

	DELAND MAYOR CHRISTOPHER M. CLOUDMAN
	CHAIRPERSON, RIVER TO SEA TPO
Certificate:	
The undersigned duly qualified and acting Recording Secret	ary of the River to Sea TPO certified that the
foregoing is a true and correct copy of a resolution, adopted a	t a legally convened meeting of the River to Sea
TPO held on April 24, 2024.	
ATTEST:	
DONNA KING, RECORDING SECRETARY	
RIVER TO SEA TRANSPORTATION PLANNING ORGANIZATION	



BPAC Meeting April 10, 2024

IV. PRESENTATIONS AND DISCUSSION ITEMS

A. PRESENTATION AND DISCUSSION OF FLORIDA DEPARTMENT OF TRANSPORTATION'S APPROACH TO COMPLETE STREETS, CONTEXT CLASSIFICATIONS, AND FACILITIES FOR BICYCLISTS AND PEDESTRIANS



FDOT Design Manual on Bike & Pedestrian Facilities

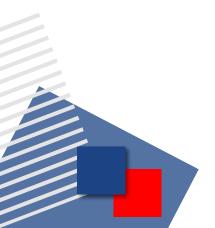
Tiffany Gehrke

State Complete Streets Coordinator
Florida Department of Transportation (FDOT)

Mission Statement



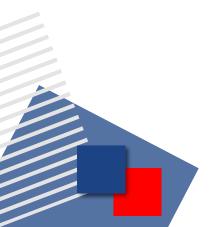
FDOT's continuing mission is to provide a safe transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of our environment and communities.



Outline



- I. Complete Streets
- II. Context Classification
- III. Bicycle Facilities
- IV. Pedestrian Facilities







Complete Streets



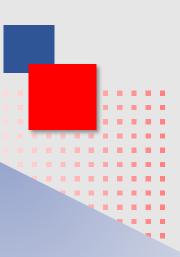
Fundamentally,

FDOT's Complete Streets

Approach is about linking

land use & transportation

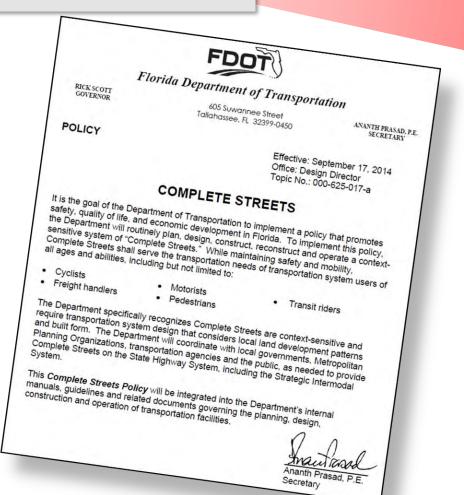
decisions/investments.



Complete Streets



- 100+ yrs. select typical section elements based on needed capacity and urban/rural designation.
- 2018 Provide a typical that serves all users and is in harmony with the context of adjacent properties.
- Policy adopted in Sept 2014







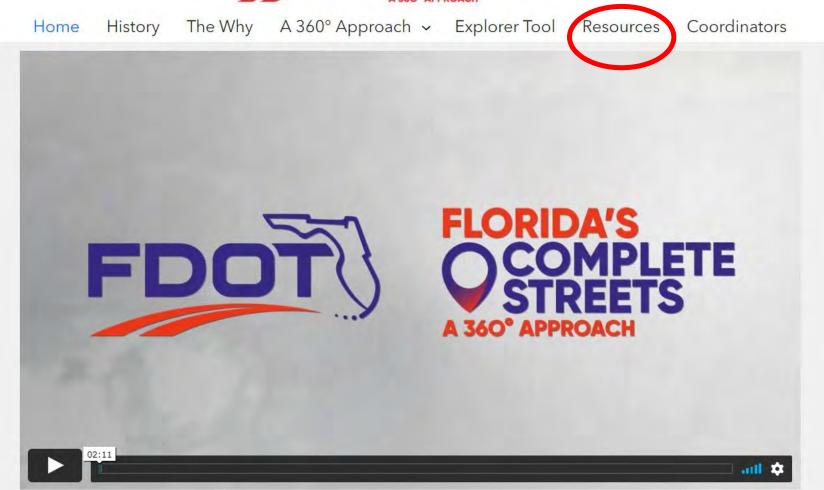
Context Classification

FDOT Context Classification



www.FLcompletestreets.com

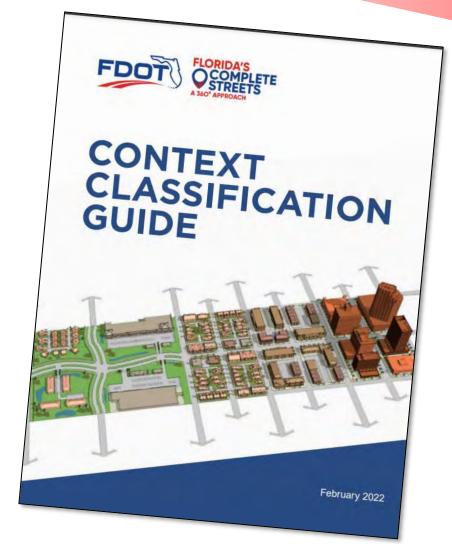




FDOT Context Classification

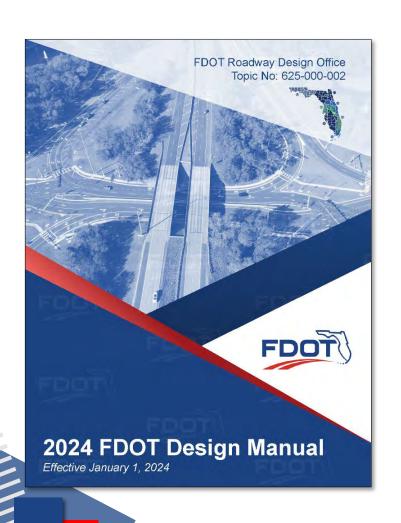


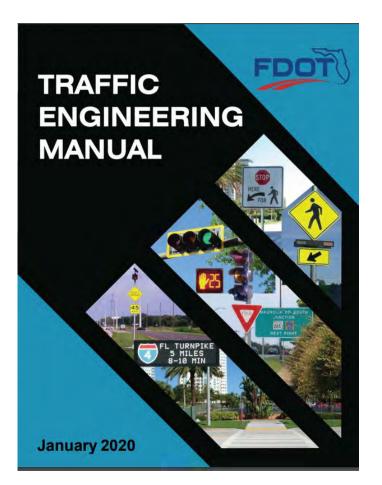
- Defines Approach, Process, Expectations, Best Practices
- Complete description of context classifications
- Preliminary done by GIS
- Project Level now done by hand

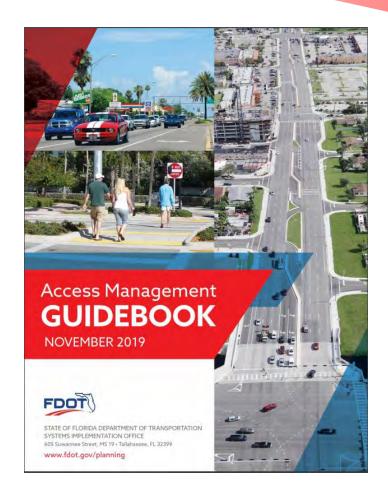


How to Design & Operate Florida Roadways



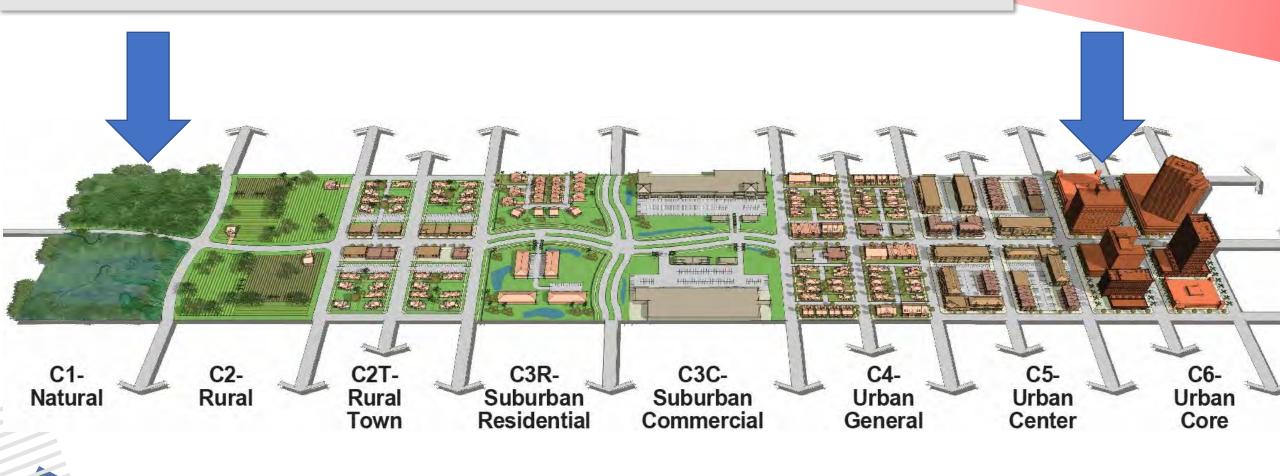


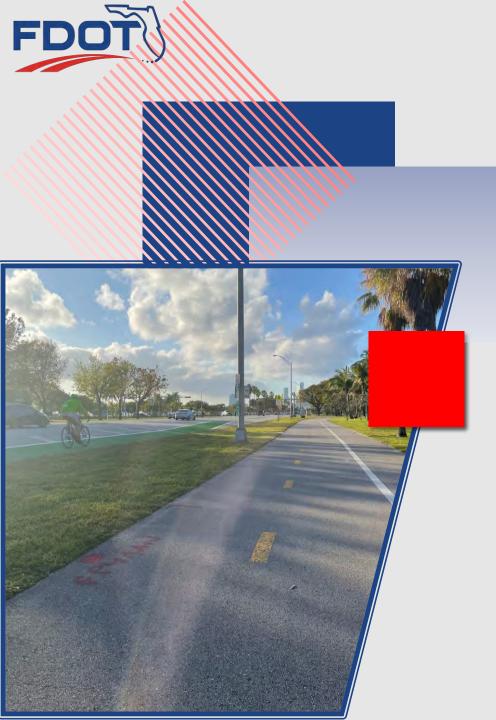




Context Classification







What Counts as a Bicycle Facility?

When can count as a Bicycle Facility (FDM 223)?

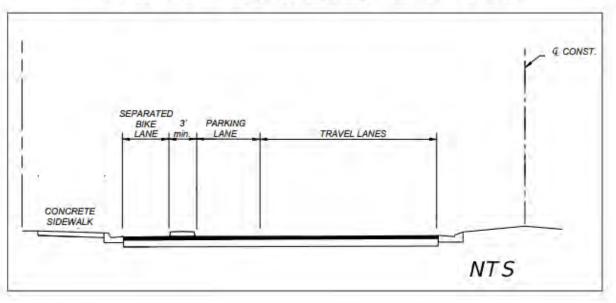


Bike Lane or buffered bike lane

Paved Shoulders

- Separated Bike Lane
- Sidewalk Level Separated Bicycle Lane

Figure 223.2.2 On-Street Parking Minimal Separation

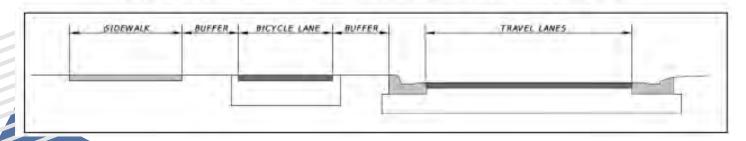


FDM 223.2.4.2 Sidewalk Level Separated Bike Lane



- Added Sidewalk Level Separated Bicycle Lanes as an option
- Design Criteria for widths and other design criteria including buffer between sidewalk and SBL

Figure 223.2.2 Example of Sidewalk Level Bicycle Lane



223.2.4.2 Sidewalk Level Separated Bicycle Lanes

Sidewalk level separated bicycle lanes (sidewalk level SBLs), also known as raised bicycle lanes, are exclusive bicycle facilities located at sidewalk level directly adjacent to the roadway.

Use the following criteria when designing sidewalk level SBLs:

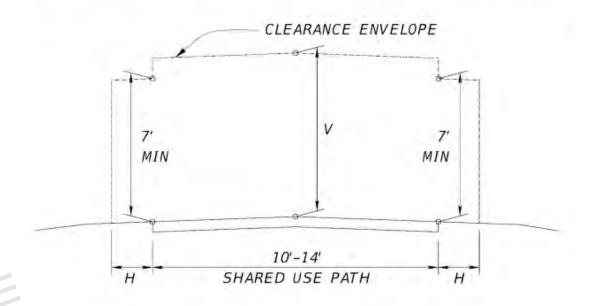
- In C2T, C4, C5, or C6 where design speed is 35 mph or less, use urban side path criteria per FDM 224 for the following elements. In other conditions, use Shared Use Path criteria for these elements.
 - Horizontal Clearance
 - Vertical Clearance
 - Design Speed
 - Horizontal Alignment
 - Separation from Roadway
 - Longitudinal Grades
 - Cross Slopes
- Follow the width criteria in Table 223.2.1
- When adjacent to a sidewalk, provide a 2-foot detectable buffer (e.g. grass strip or textured pavement) between the sidewalk and separated bicycle lane. A 1-foot detectable buffer may be used in constrained conditions.

A sidewalk level bike lane does not substitute for a sidewalk, where a sidewalk is required. See *Figure 223.2.2* for example of a sidewalk level bike lane.

When can count as a Bicycle Facility (FDM 224)?



Figure 224.8.1 Shared Use Path Horizontal and Vertical Clearance Envelope



Standard Shared Use Path

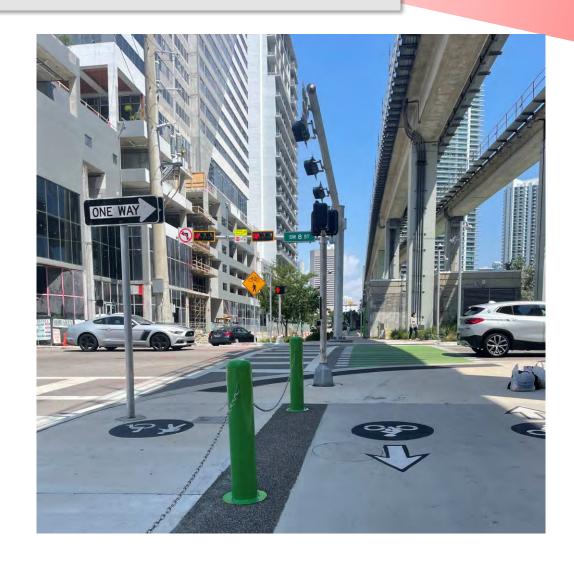
Urban Side Path Design



Shared Use Paths & Urban Side Paths



- ADA Accessible
- Urban Side Paths designed with lower design speed (10 mph vs. 18 mph)
- To Substitute Sidewalk & Bike Lane
 - In C5 & C6- Must be placed adjacent to separate sidewalk
 - Separate Modes when non-motorist volumes are expected to be high or there may be high numbers of more vulnerable road users
- Widths to accommodate expected use
- Lighting & Shade



Shared Use Path vs Urban Side Path



Shared Use Path vs. Urban Side Path Criteria											
			Design Speed			Roadway					
		Design Speed (when	(when>4%	Horizontal	Roadway	Design	Context		Cross	Longitudinal	Width on
	Width	≤4% grade)***	grade)***	Clearance	Separation	Speeds	Classification	Vertical Clearance	Slopes	Grades	Bridges
Shared Use					5 ft (from edge of paved shoulder, shoulder break,			10 ft (8 ft in contrained		≤5% (may follow grade of	Approach
	10-14 ft*	18 mph	30 mph		or face of curb)	≥35 mph	C1, C2, C3	,		ا	(min of 12 ft)
Urban Side	10-14 ft*		10 mph		2 ft from back of curb			10 ft (8 ft in contrained		≤5% (may follow grade of	+`
	* Consider Separate Bike and Pedestrian Facilities when high volumes of non-motorized users (or more vulnerable users) are expected. FHWA Level of Service Calculator may also be used to determine the width. 8 ft can be used I short segments in constrained conditions. **12 ft for SUN Trail, Underpasses & Tunnels, or for accommodations of equestrians or maintenance & emergency vehicles										
	*** Stopping Sight Distance, Minimum Radii, & Vertical Alignment based on Design Speed of Path										



When can count as a Bicycle Facility (FDM)?



Standard or crite	eria in FDM 2024	C1/C2	C2T	C3R	СЗС	C4	C5	C6	
	≤45 mph (curbed)	N/A	Bicycle Lanes can be used on curbed roadways with Design Speeds ≤45 m						
Bicycle Lane or Buffered Bicycle Lane*	≤45 mph (flush shoulder)	Unmarked paved shoulder	Additiional width adjacent to travel lanes is to be designated as a bicycle lane when no shared use path or separated bicycle lane is present along the corridor.	travel lanes is to be designated as a bicycle lane when no shared use path or separated bicycle lane is present along the designated as a bicycle lane is present along the designated as a bicycle lane is present along the			adjacent to travel lanes is to be picycle lane when no shared use d bicycle lane is present along the		
Paved Shoulder	>45 mph	Unmarked paved shoulder	N/A	Unmarked paved shoulder		Unmarked paved shoulder			
Shared Use Paths	>35 mph	With adequate separation from motorized traffic where conflict points are minimal	N/A	With adequate separation from motorized traffic where conflict points are minimal		N/A			
Urban Side Path	≤35 mph	≤35 mph N/A When adjacent roadway is curbed Not to be us		sed When adjacent roadway i curbed		lway is			
	≤35 mph	N/A	Tubular markers, traffic separators, islands, rigid barriers, or on-street parking can be used as separation. Sidewalk level separated bicycle lane may also be used.					Sidewalk	
Separated Bicycle Lanes or Sidewalk Level Separated Bicycle Lanes	40-45 mph	N/A	Traffic separators, islands, or rigid barriers can be used as separation. Sidewalk level separated bicycle lane may be used.					e may also	
	>45 mph	Sidewalk Level Separated Bicycle Lane may be used	N/A	Sidewalk level separated bicycle be used	e lane may		N/A		

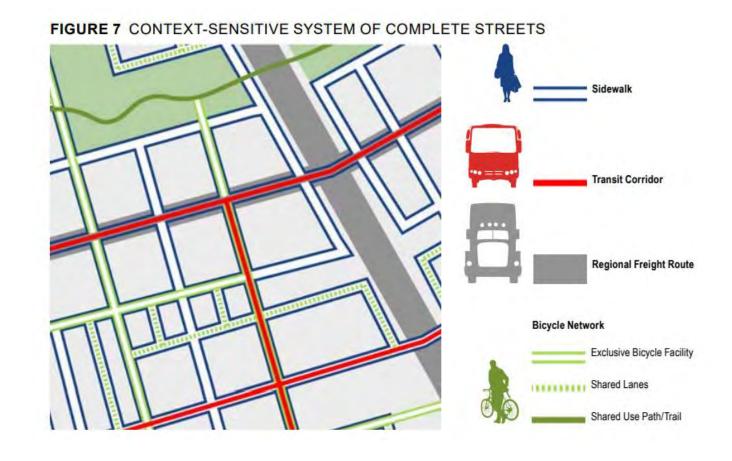
^{*}It is best practice to consider other types of facilities for design speeds greater than 30 mph such as a separated bicycle lane or shared use path.

Importance of Connected Networks



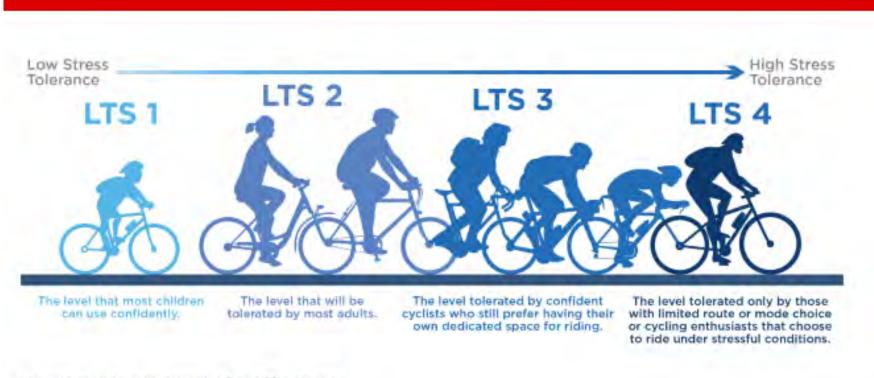
A fine-grained network allows for roadways to complement each other, with some roadways providing better quality of service for high-speed travel, and other parallel roadways providing comfort, safety, and access for bicyclists and pedestrians.

-FDOT Context Classification Guide



Multimodal Q/LOS Handbook







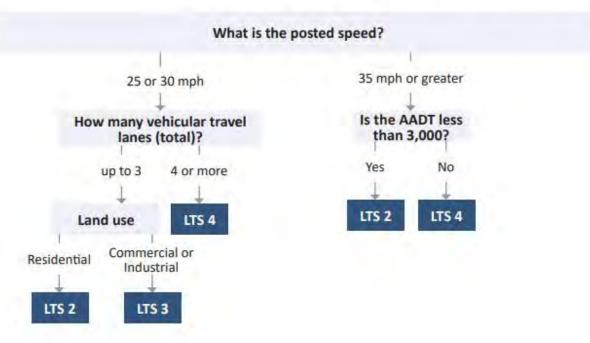
Multimodal Q/LOS Handbook





Bicycle Level of Traffic Stress Flow Chart to use When No Bicycle Facility is Present or When There are Sharrows Present

C2T, C3C, C3R, C4, C5, & C6



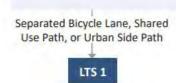
Multimodal Q/LOS Handbook

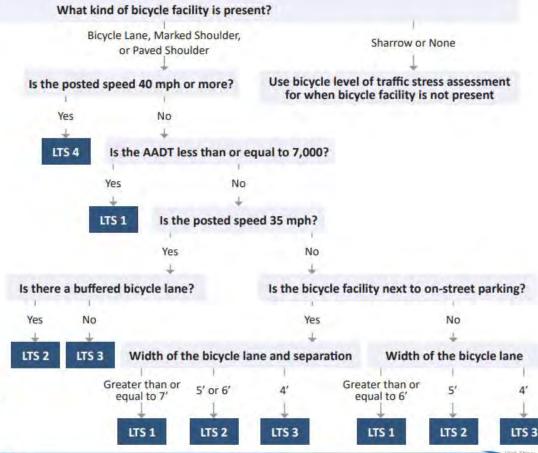




Bicycle Level of Traffic Stress Flow Chart to use When Bicycle Facility is Present

C2T, C3C, C3R, C4, C5, & C6







- 1) This chart does not constitute a standard and should be used only for general planning applications. The chart should not be used for corridor or intersection design, where more refined techniques exist.
- If there is both a separated bicycle lane, shared use path or urban side path and a bicycle lane, marked shoulder, or paved shoulder, evaluate the facility as having a









What can Act to Fulfill the Pedestrian Facility Need?

What Can Act to Fulfill the Pedestrian Facility Need?



- Sidewalk
 - Must Be ADA Compliant
 - Sidewalk Widths fitting for Context
- Urban Side Paths
 - C2T, C4, C5, and C6
 - C5 & C6
 - Paths placed adjacent to roadway must be provided with a separate sidewalk to accommodate increased pedestrian demand
 - ADA Compliant
- Shared Use Paths
 - ADA Compliant

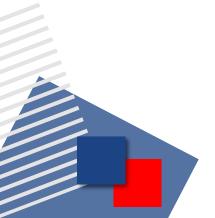
What Can Act to Fulfill the Pedestrian Facility Need?



Providing Sidewalk

Provide sidewalk on high speed curbed and flush shoulder roadways within C2T, C3C, C4, C5 or C6 context classification; and within C1, C2 or C3R where the demand for use is demonstrated.

- FDOT Design Manual Ch.222.2.1



Sidewalk Width

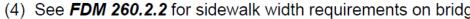


Table 222.1.1 Standard Sidewalk Widths

Co	ntext Classification	Sidewalk Width (feet)
C1	Natural	5
C2	Rural	5
C2T	Rural Town	6
C3	Suburban	6
C4	Urban General	6
C5	Urban Center	10
C6	Urban Core	12

Notes:

- (1) For C2T, C3 and C4, sidewalk width may be increased up to 8 feet when the demand is demonstrated.
- (2) For C5 and C6, when standard sidewalk width cannot be attained, provide the greatest attainable width possible, but not less than 6 feet.
- (3) For RRR projects, unaltered sidewalk with width 4 feet or greater may be retained within any context classification.
- (4) See **FDM 260.2.2** for sidewalk width requirements on bridges.



Designing For Connectivity & Access



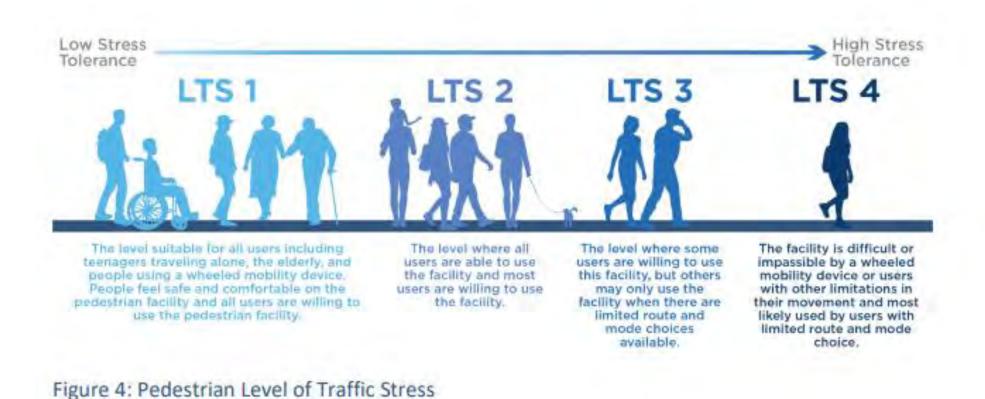
Continue sidewalk across bridge structures when sidewalk is provided on the approach roadway. Also provide sidewalk on new bridges where sidewalk or shared use path is not present along the roadway but may be included with a future project. Sidewalk should be constructed on both sides of the roadway; however, if sidewalk is constructed on only one side, provide reasonable pedestrian access to destinations (e.g., transit stops, homes, places of work, stores, schools, post offices, libraries, parks) on the opposite side.

FDM Ch. 222.2.1



Multimodal Q/LOS Handbook





Multimodal Q/LOS Handbook





for corridor or intersection design, where more refined techniques exist.

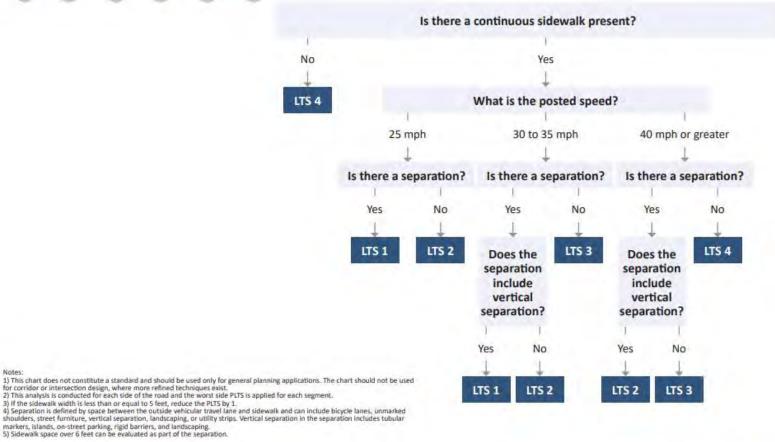
markers, islands, on-street parking, rigid barriers, and landscaping.

5) Sidewalk space over 6 feet can be evaluated as part of the separation.

3) If the sidewalk width is less than or equal to 5 feet, reduce the PLTS by 1.

Pedestrian Level of Traffic Stress Flow Chart

C2T, C3C, C3R, C4, C5, & C6













Any Questions?

Tiffany Gehrke

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Florida Department of Transportation
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Tallahassee, FL 32399
(850) 414-4283
<u>Tiffany.Gehrke@dot.state.fl.us</u>





BPAC Meeting April 10, 2024

IV. PRESENTATIONS AND DISCUSSION ITEMS B. PRESENTATION AND DISCUSSION OF THE MAKE EVERY RIDE COUNT INITIATIVE



#MakeEveryRideCount

A bike safety initiative from Love to Ride and the League of American Bicyclists.

- Nationwide effort to support a Bike Friendly America
- Launching during Bike Month 2024 using the Love to Ride app
- Encouraging individuals nationwide to participate in logging rides on the app and providing route feedback



How does it work?

This Bike Month, Love to Ride and the League of American Bicyclists encourage everyone to use the Love to Ride app to rate their routes.

- Free for individuals to participate
- Download the free Love to Ride app on Google Play or Apple Store, create a profile, and ride!
- All logged trips and comfort ratings will be aggregated into a National Comfort Database to share with regional partners



Initiative Goals

#MakeEveryRideCount seeks to achieve several key objectives:

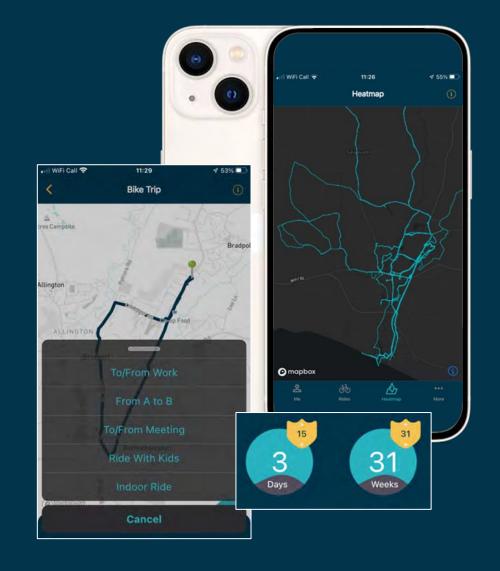
- Encourage widespread participation in logging bike rides and providing feedback
- Increase awareness of biking safety and infrastructure needs
- Establish a national comfort rating benchmark for transportation planners, vision zero professional and advocates



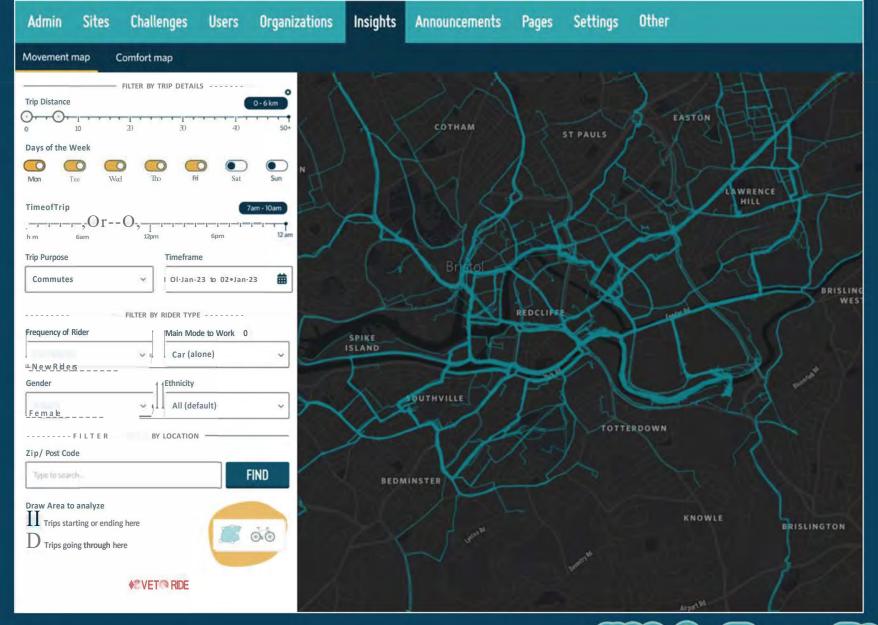
The Love to Ride App

The Love to Ride app offers key features that enable the #MakeEveryRideCount initiative:

- Passive tracking for easy ride logging more trips logged
- Automatic mode-detection
- Comfort rating functionality to provide route feedback



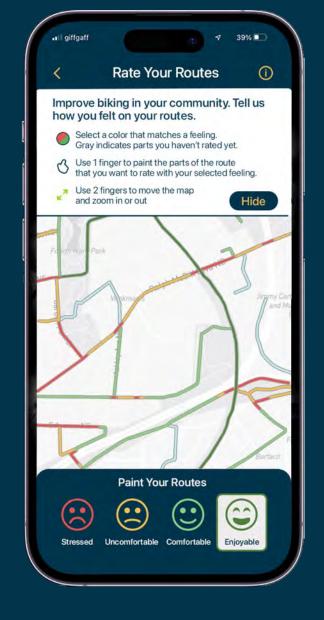




Comfort Rating

#MakeEveryRideCount is made possible by Love to Ride's new comfort rating feature that allows riders to easily rate their route.

- 4-Stress Level Rating Scale
- Simple color-coded 'finger paint'
- Segment by segment

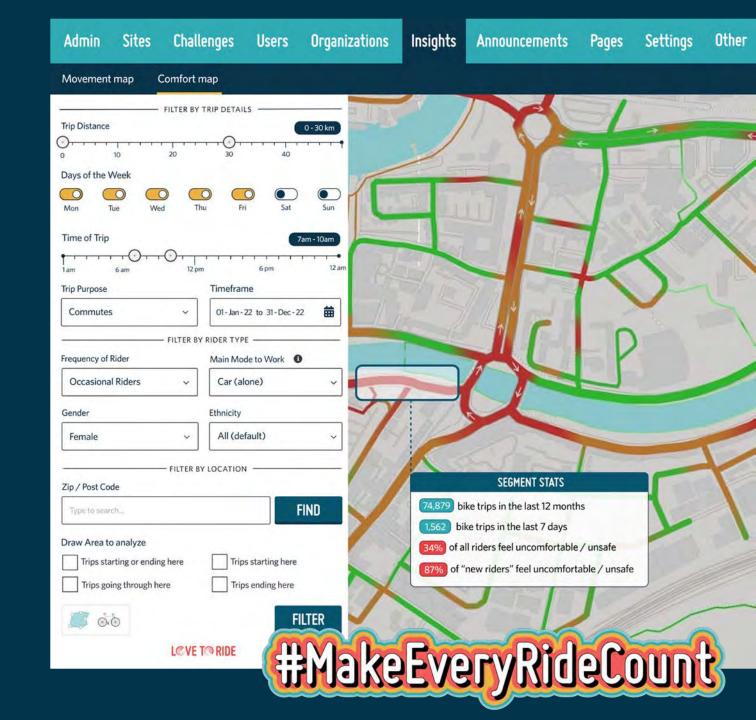




Use Cases

Use the data to:

- Identify hotspots
- Prioritize investments
- Measure Impact
- Validate infrastructure planning
- Filter by demographics



Benefits of #MakeEveryRideCount

For Government

Ability to access the National Comfort Rating Benchmark for planning purposes

For individuals:

- Free, meaningful fun during Bike Month
- Free app to track rides and rate comfort levels
- Have a voice in transportation planning



Bike Month 2024

- May 1 31, 2024
- A National Bike Challenge to celebrate joy and benefits of biking
- Participation is free for individuals
- Promo Pack with graphics and text will be available to share

How you can support #MakeEveryRideCount

- Take part in Bike Month 2024
- Encourage your organization, city or community to participate
- Download and share the promotional materials
- Share details with others within your organization and outside
- Share social media posts using the #MakeEveryRideCount hashtag



What's Next

- Follow up emails with links to a launch page for more details
- Links to downloadable promotional materials will be available
- National webinar



Learn More

Additional resources and information about #MakeEveryRideCount.

- Visit the Love to Ride website for more details @ www.LovetoRide.net
- Follow Love to Ride & the League of American Bicyclists for updates and campaign information
- Contact us: Laura@lovetoride.net





About Love to Ride

Love to Ride offers comprehensive biking transportation programs and services to support mode shift in communities worldwide.

- Behavior Change: Engage communities and encourage cycling with tailored Behavior change programs.
- Biking Network Monitoring: Gain insights into biking network usage and safety with advanced monitoring tools.



Our products



01

Automatic Tracking App



02

Community Engagement



03

Behavior Change Programs & Gamification



04

Community Website



L©VE TO RIDE-

16

05

Dashboards



06

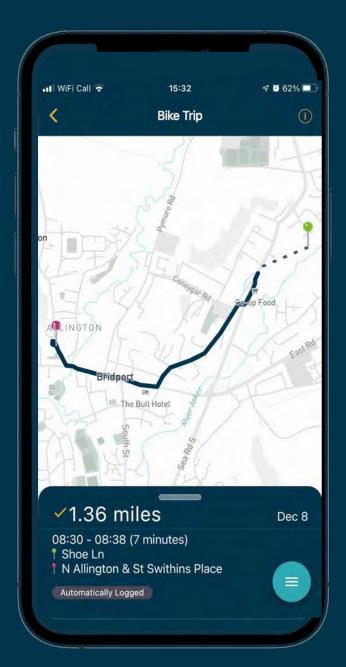
Maps

The world is missing the data from billions of bike trips.

01

Meet our new app

Humanized, simplified - Collecting more data from every trip, especially the short ones.



Features

Passive trip tracking

Automatic Mode Detection

Comfort Ratings

Heatmaps

Push notified bike safety education

02

Community Engagement

Annual behavior change, challenge, and engagement programs.



Includes

Project & Campaign Management

Marketing Package

On-going engagement comms plan

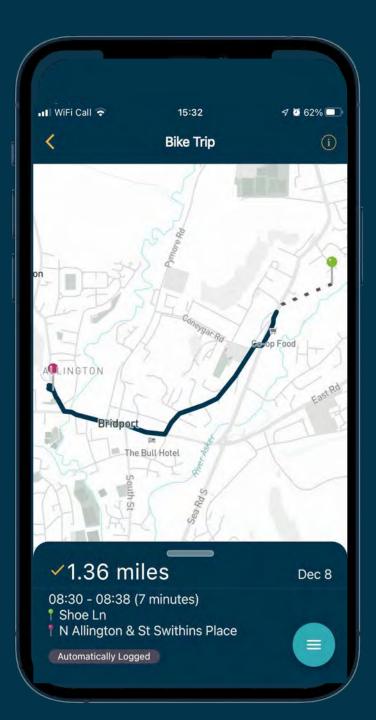
1-4 Campaigns / Challenges

Reporting

03

Behavior Change

For mode shift



Approach

Targeted Nudges

Baby Steps

Self-Efficacy

Stages of Change

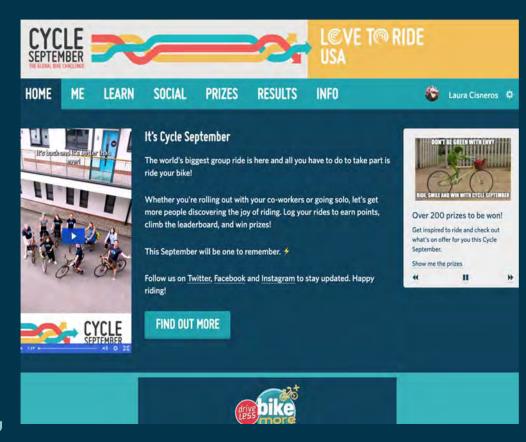
Gamification

Social Norming

Incentives

04 Website

Community biking hub with free profiles for businesses, individuals, and groups.



Features

Challenge Management

Leader boards

Insights & Data

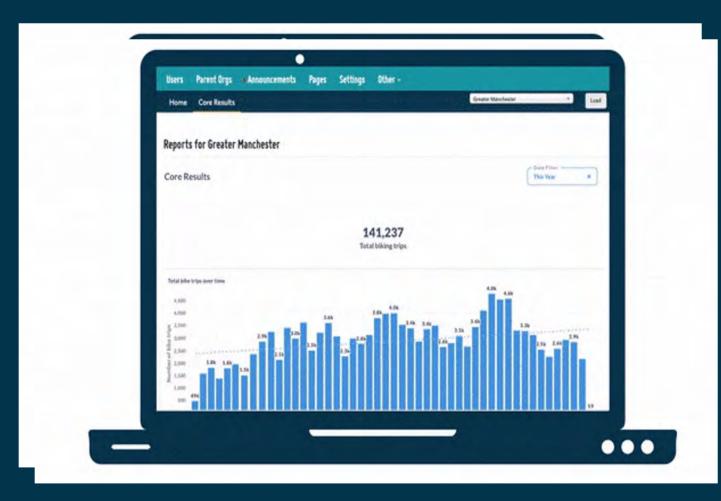
Stats – trips, carbon mitigation, participation

Admin Panel

05

Data Dashboards

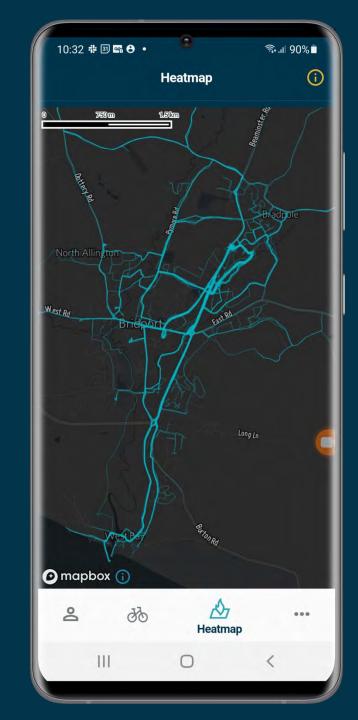
Real-time results seen in real-time



06

Maps

Heatmaps and comfort ratings



Filter by:

Time

Day

Trip Purpose

Rider Type

- new, occasional, regular

Age

Gender

Ethnicity











Love to Ride is a complete biking transportation platform. Interested in learning more about how our platform boosts biking and data collection around the world? laura@lovetoride.net



BPAC Meeting April 10, 2024

V. STAFF COMMENTS

- → BPAC Project Review Subcommittee Meeting
- → Expansion of VoRide Mobility on Demand Service



Beginning April 8, VoRide will expand to Orange City, Deltona, and DeBary!



This service operates using small mini-vans in a designated zone. For trips outside of the zone, riders will be connected to a Votran bus route to continue their trip.

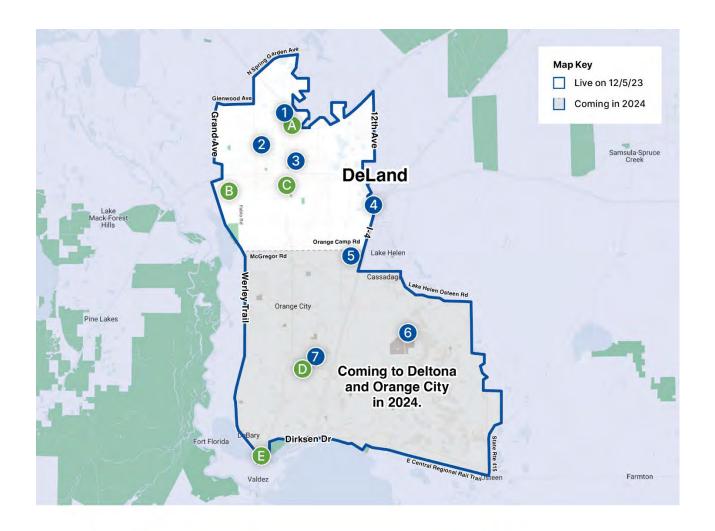
Service Areas

Service is provided in DeLand. Generally, the boundaries of the service zone are as follows: Orange Camp Road to the south, I-4 & 12th Ave. (Daytona Park Estates) to the east, Grand Avenue to the west, and Glenwood Ave./Spring Garden Ave., and the DeLand Municipal Airport to the north.

Popular destinations in the DeLand Zone include: DeLand Walmart, DeLand Neighborhood Market Walmart, Stetson University, DeLand Regional Library, Daytona State College (DeLand Campus), Country Club Corners Shopping Center, the Dr. Joyce Cusack Resource Center, and the DeLand Amtrak Station (site of the Future DeLand SunRail Station).

Transfers to/from Votran buses can be made at the Amelia Superstop (Routes 20, 31, and 60), the Thomas C. Kelly County Administration Center bus stops on Rich Avenue (Route 20), or at the DeLand ITF (Routes 20 & 31).

Beginning on April 8, the service area will expand to include Orange City, Deltona, and DeBary.



Popular destinations

- 1 DeLand Walmart Supercenter
- 2 AdventHealth DeLand
- 3 Stetson University
- 4 Daytona State College DeLand Campus
- (5) AdventHealth DeLand Victoria Medical Park
- 6 Daytona State College Deltona Campus / City Hall
- (7) AdventHealth Fish Memorial

Transit hubs

- A Amelia Super Stop
- (B) DeLand Amtrak
- C DeLand ITF
- (D) Market Place Transfer Point
- E DeBary SunRail Station

How to Ride

Riders will be able to book their trip using the VoRide App or by phone: (386) 210-9861.

You'll need the origin and destination of your trip when booking. At this time, riders will not be able to preschedule their trips, so you can just book when you're ready to go.

If you qualify for reduced fares or are using a wheelchair, use the Concessions menu to select the applicable option.

Be sure to select the number of travelers you are traveling with.

Fares

Fare Type	Fare Amount
Full Fare	\$2.00
Reduced Fare Youth (7-18), Persons with Disabilities, and Senior Citizens (65+)	\$1.00
Children (Under 7 with a paying adult)	Free
Intermodal Trip*	Free (must pay fare on Votran bus)

Fares can be paid through the VoRide app or with cash to the driver.

Bicycles, Mobility Aides, and Baggage

At this time, bicycles will not be permitted on VoRide vehicles. They may be permitted at a later date.

If you are travelling with a wheelchair, be sure to select that option when booking your trip to ensure a wheelchair accessible vehicle is sent to your location and there is space available.

VoRide is a curb-to-curb service and some pickup/dropoff points may be at a nearby street corner. For customers needing assistance from door-to-door, please use Votran Gold Paratransit Service.

Because space is limited, we ask that riders limit the amount of bags, including luggage or groceries.

^{*} An *Intermodal Trip* is a trip in which part of your trip will be provided on VoRide and on a Votran bus. Either leg can come first (Votran to VoRide or VoRide to Votran). The VoRide portion of your trip will be free, all riders will need to pay their fare when boarding the Votran bus.

Customer Service & More Information

For all Customer Service related matters, please call or email:

(386) 210-9861 or support-voride@ridewithvia.com

For more information on VoRide, including suggestions or general comments, please contact the Volusia County Transit Services Division using a contact form. Please select "VoRide" from the drop down menu for Comment Type.



BPAC Meeting April 10, 2024

VI. INFORMATION ITEMS

- → BPAC Attendance Record
- → TPO Board Report
- → TPO Outreach & Activities
- → TPO Upcoming Events



BPAC Meeting April 10, 2024

VII. BPAC MEMBER COMMENTS



BPAC Meeting April 10, 2024

VIII. ADJOURNMENT

The next BPAC meeting will be on May 8, 2024