



City Commission Work Session

Agenda

February 9, 2023 @ 1:00 pm

City Hall - Commission Chambers
401 S. Park Avenue

welcome

Agendas and all backup material supporting each agenda item are accessible via the city's website at cityofwinterpark.org/bpm and include virtual meeting instructions.

assistance & appeals

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office ([407-599-3277](tel:407-599-3277)) at least 48 hours in advance of the meeting.

"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." (F.S. 286.0105).

please note

Times are projected and subject to change.

-
1. **Call to Order**
 2. **Presentation**
 - a. [Audubon Park Main Street Program - John Rife](#) 15 minutes
 3. **Discussion Item(s)**
 - a. [Transportation Master Plan Update by Patel, Greene & Associates](#) 1 hour 30 minutes
 4. **Adjournment**



City Commission **agenda item**

item type	Presentation	meeting date	February 9, 2023
prepared by	Rene Cranis	approved by	
board approval			
strategic objective			

subject

Audubon Park Main Street Program - John Rife

motion / recommendation

background

alternatives / other considerations

fiscal impact



City Commission **agenda item**

item type Discussion Item(s)	meeting date February 9, 2023
prepared by Hongmyung Lim	approved by Michelle del Valle, Randy Knight
board approval Completed	
strategic objective	

subject

Transportation Master Plan Update by Patel, Greene & Associates

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[WinterParkTMP_Presentation1_Commission_final.pdf](#)



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City of Waco Transportation

Existing Conditions
January/February

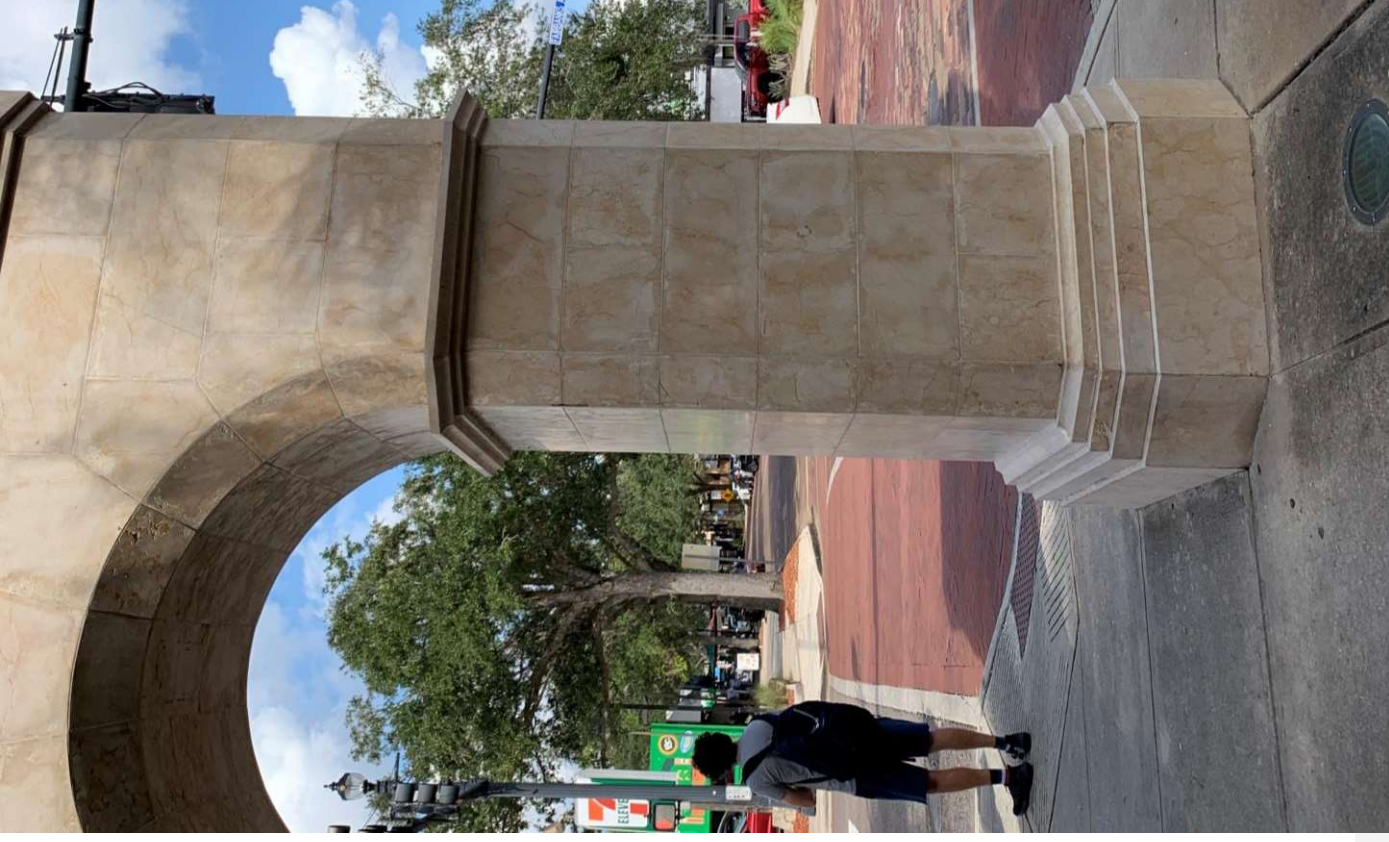
| Today's Presentation

Review Transportation Master Plan Process & Goals

Review Existing Conditions

Introduce Metrics to Analyze Existing Conditions

Chart the path towards a 20+ year program of projects



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City of Winter Park | Transportation Master Plan

TENTATIVE



TASKS	2022		2023						
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1. Baseline Documentation	Blue	Blue	Blue						
2. Modal & Project Metrics Evaluation	Blue	Blue	Blue	Blue	Blue				
3. Technology Evaluation		Blue	Blue	Blue	Blue				
4a. Project Identification							Blue		
4b & c. Project Cost Estimates and Prioritization							Blue	Blue	Blue
5a. Draft Plan Document							Blue	Blue	Blue
5b. Final Plan Document									

LEGEND

- Blue: Transportation Advisory Board
- Orange: City Commission

Comprehensive Plan

Goal 2-1: Balanced Transportation System

- Objective 2-1.1: Safe & Balanced Multimodal System.

Goal 2-2: Safe Transportation Network

- Objective 2-2.1: Safety for All Modes of Transportation.

Goal 2-3: Pursuit of Technology & Innovation.

- Objective 2-3.1: Innovative Transportation Infrastructure.

Goal 2-4: Funding Opportunities.

- Objective 2-4.1: Funding Partnerships.



Existing Programs & Policies

ADA Transition Plan

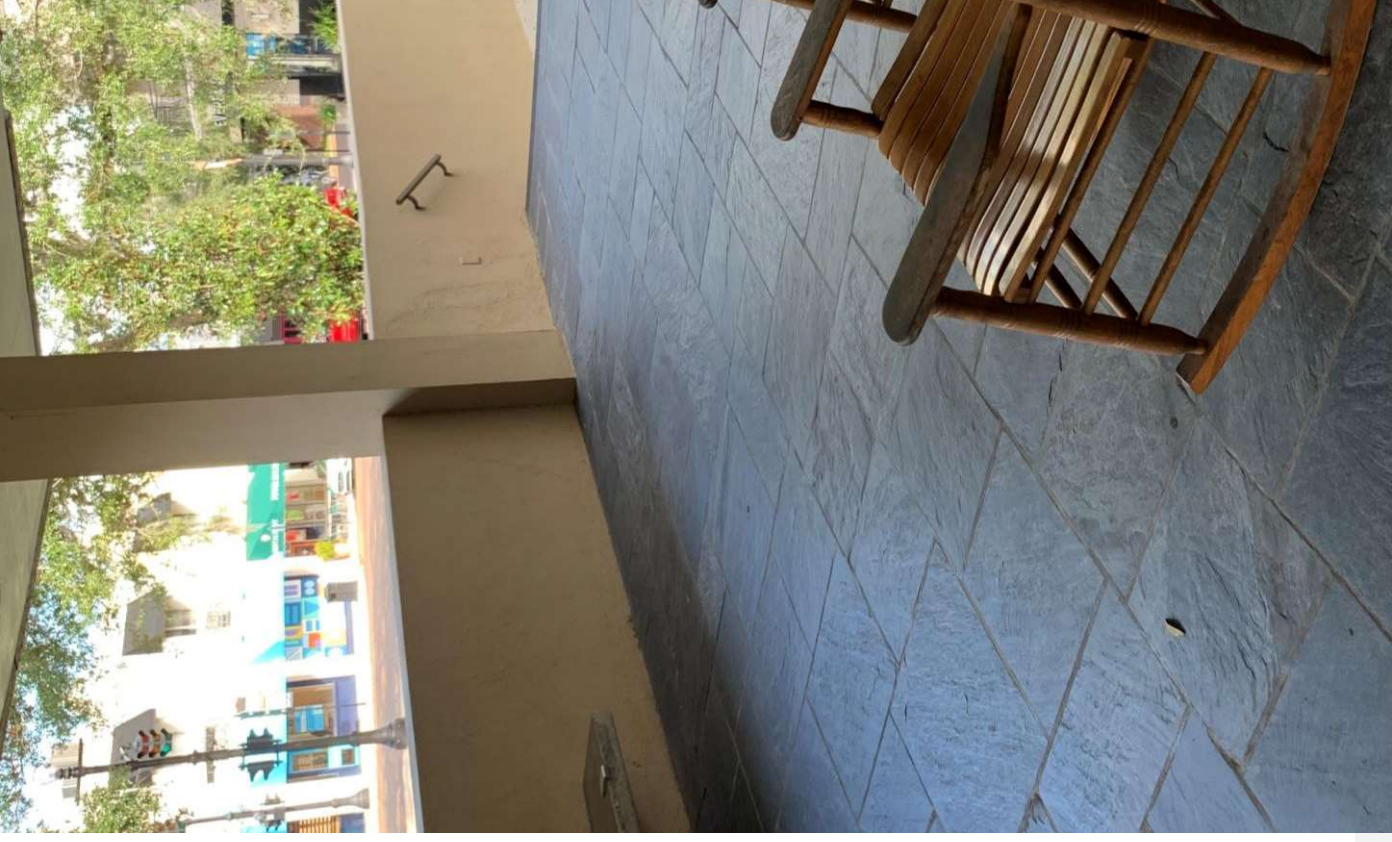
Traffic Calming Policy

SR 426 Coalition

Denning Street improvements

Vision Zero – MetroPlan Orlando

SunRail



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Context

Established Street Network

Vibrant Downtown

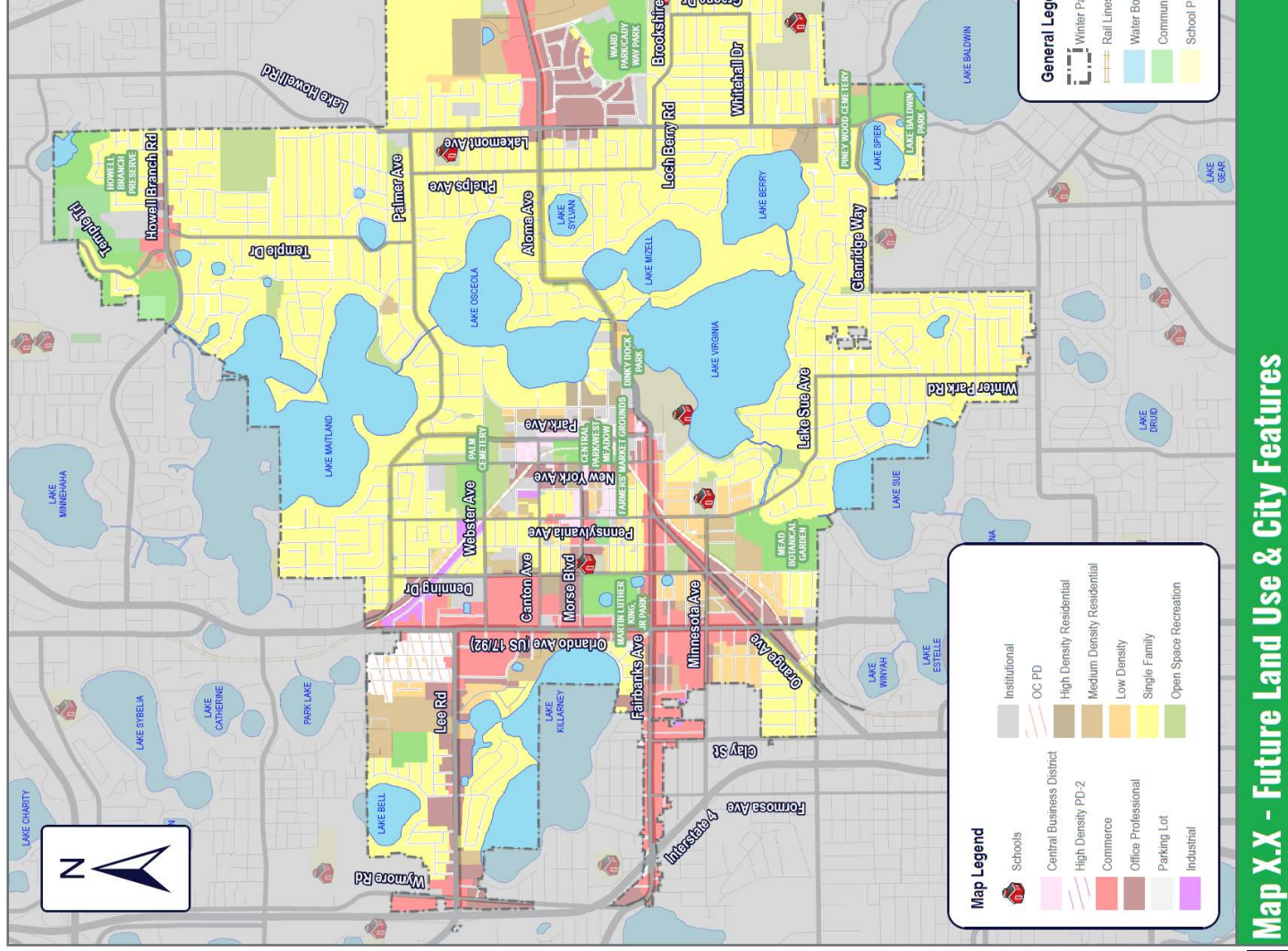
Historic Neighborhoods

Lakes Constrain East-West Travel

Schools



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Existing Transportation Networks

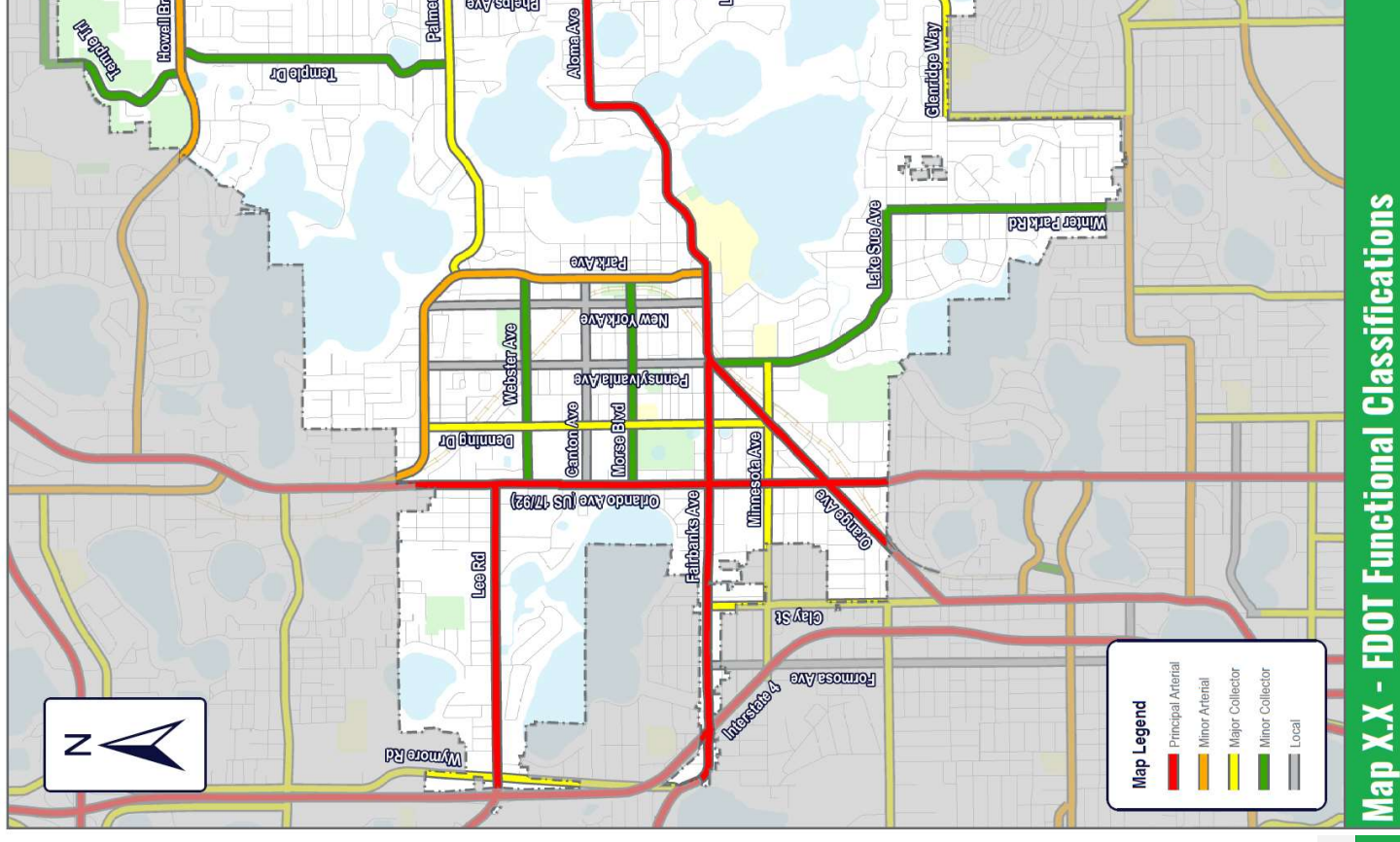
Streets

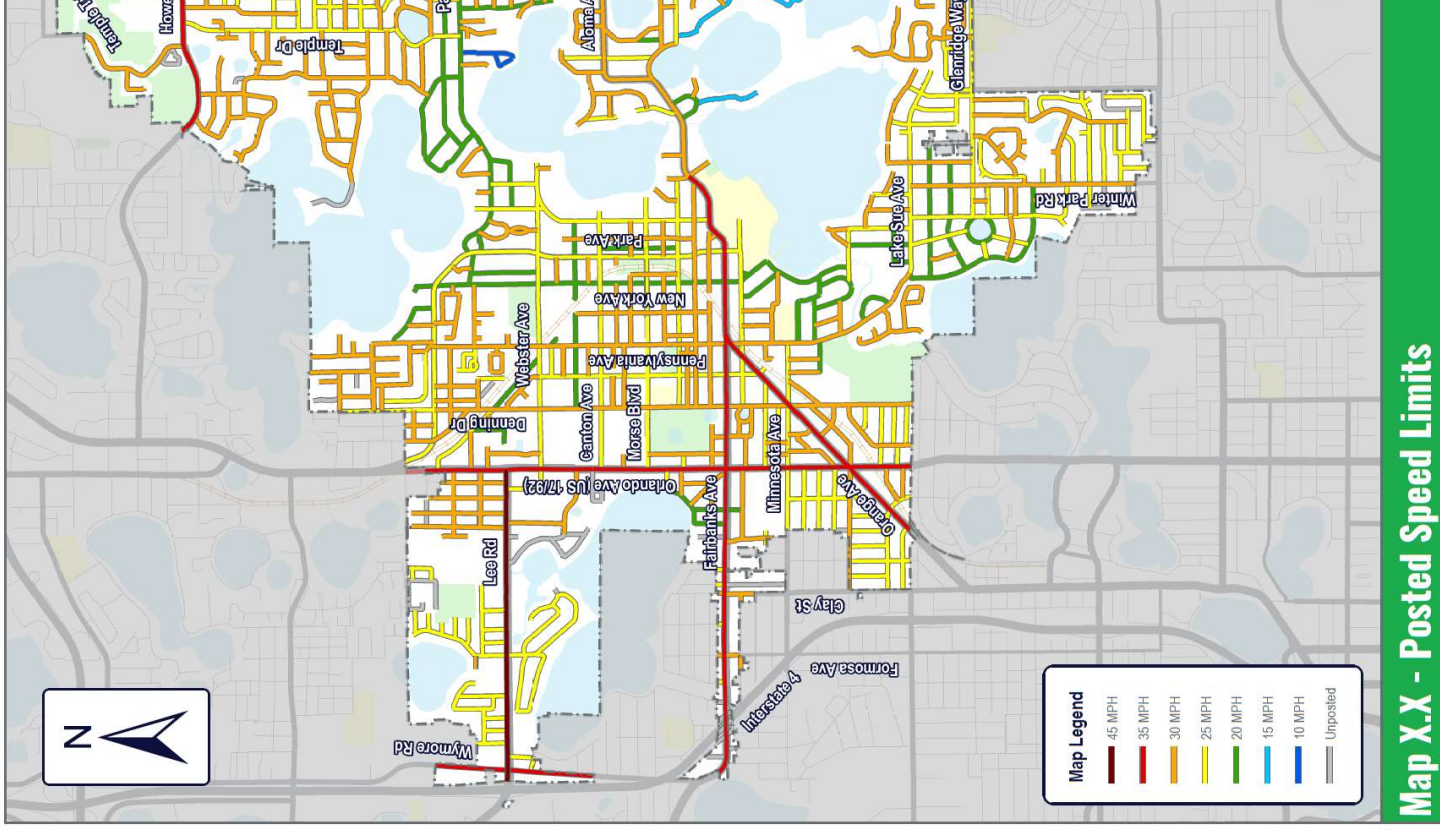
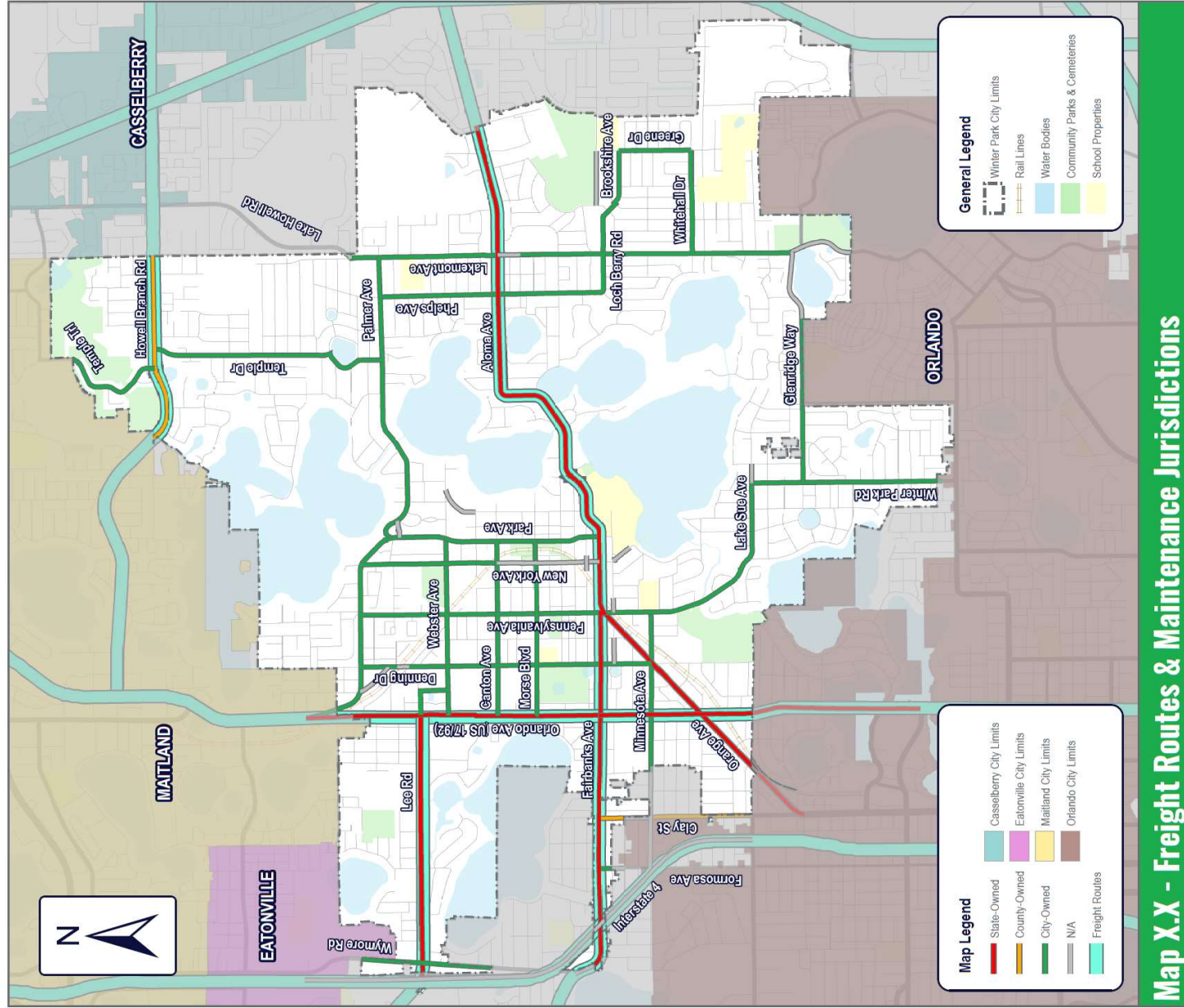
- Functional Classifications
- Posted Speed Limits
- Freight Routes & Maintenance Jurisdictions

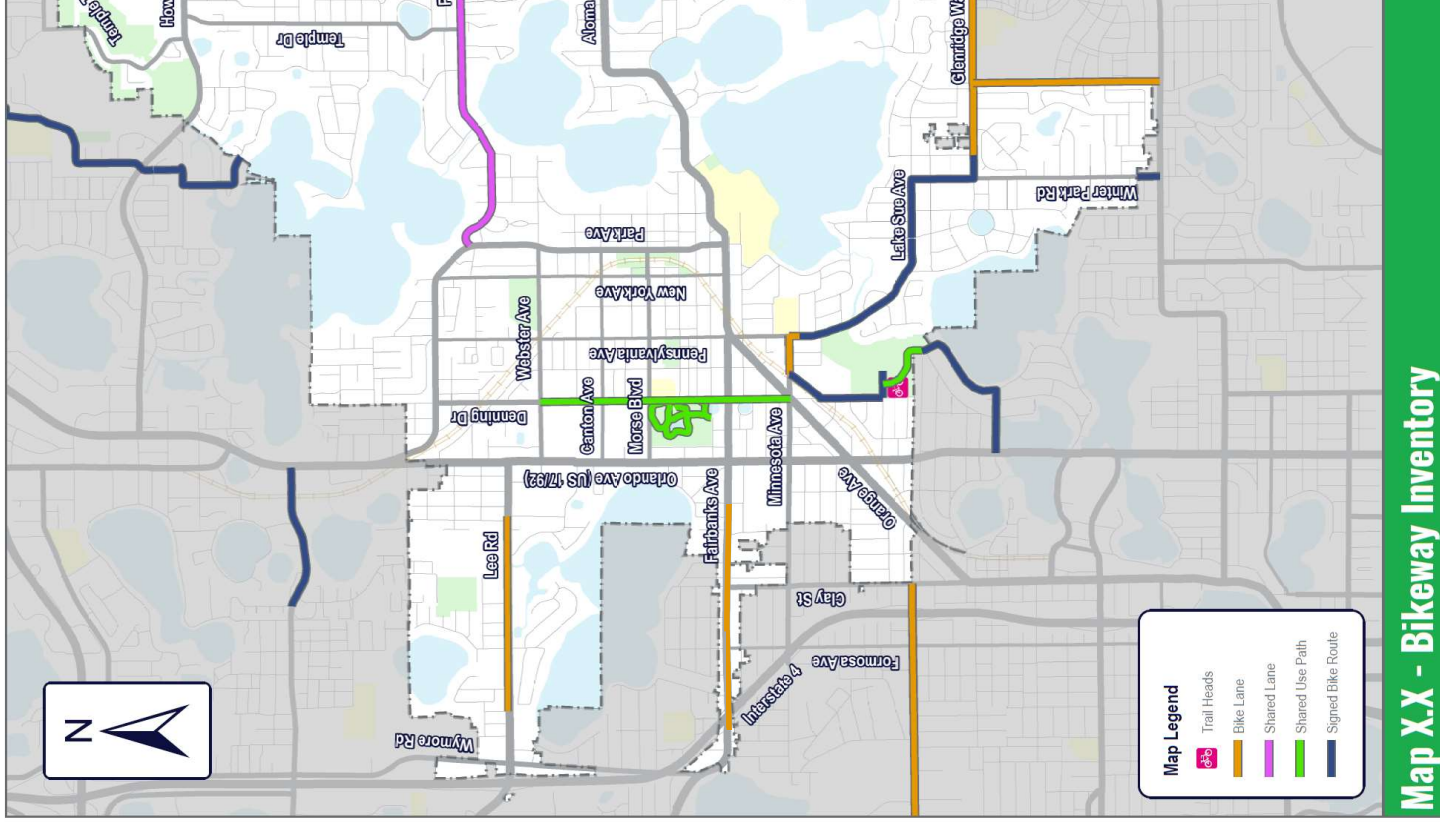
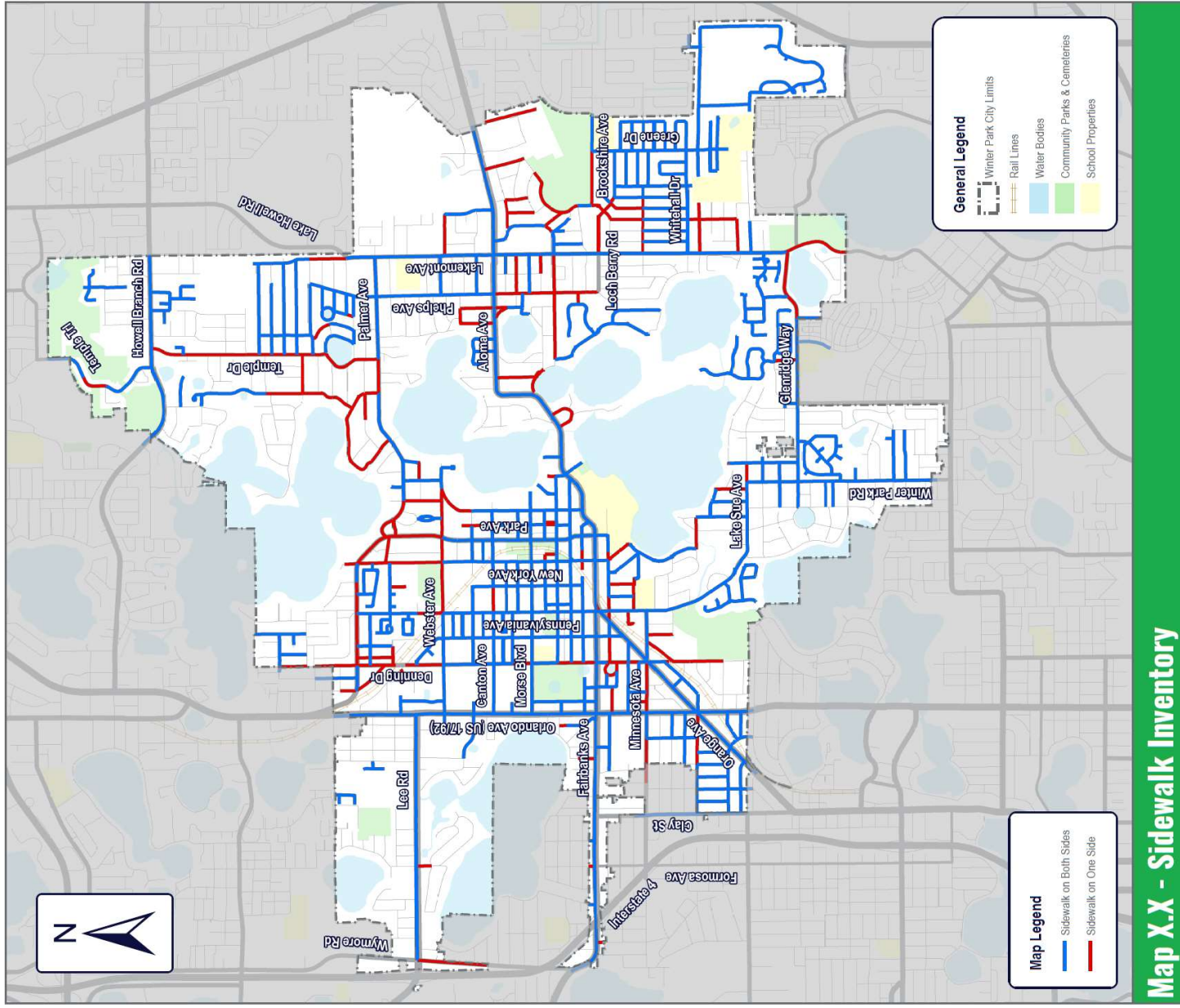
Sidewalks

Bikeways & Trails

Transit Routes







Transit Routes

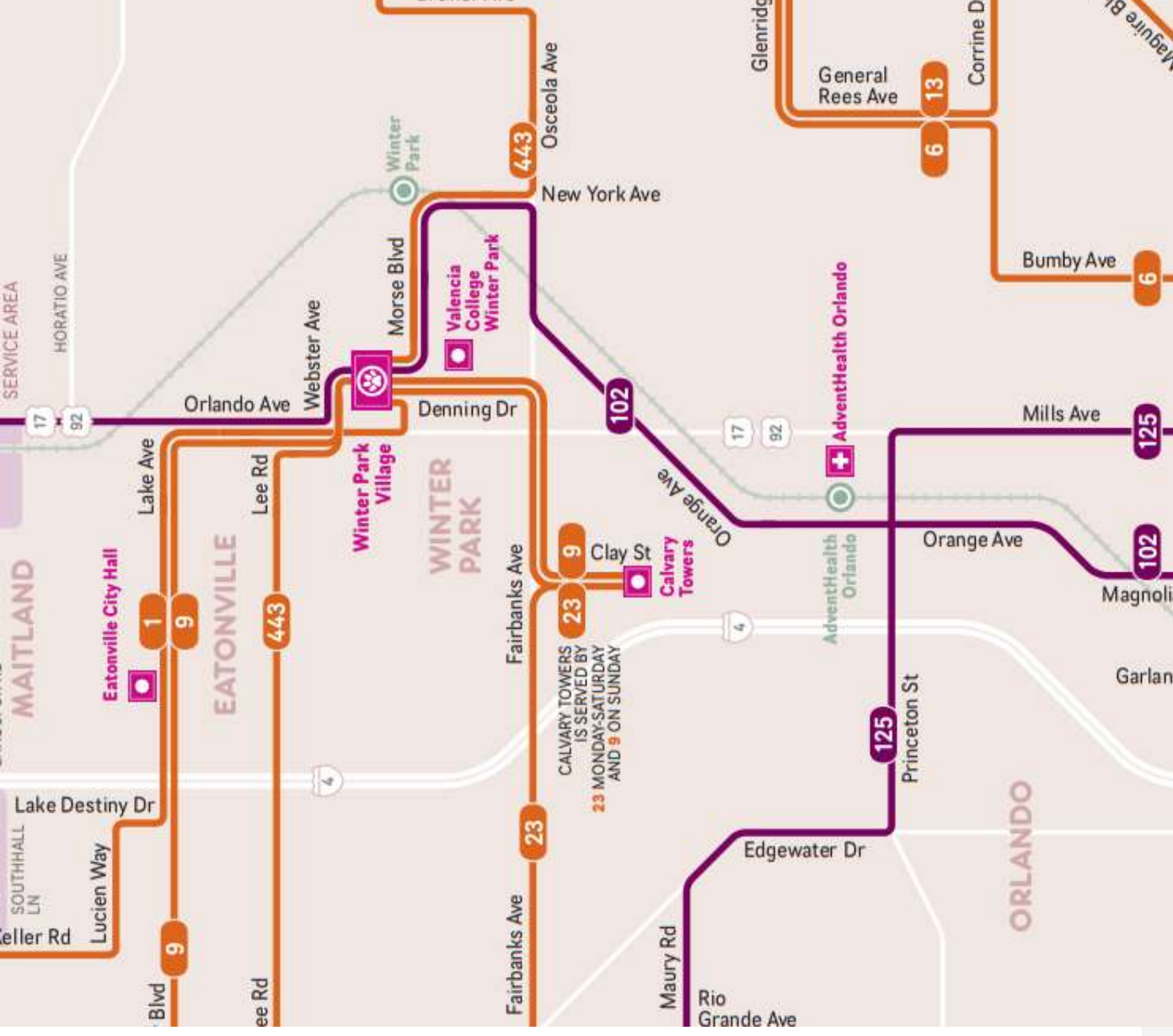
SunRail

LYNX 30-minute service

- Route 102 (Orlando – WP Village – Fern Park)

LYNX 60-minute service

- Route 1 (WP Village – Maitland – Altamonte Mall)
- Route 6 (Runs along General Rees Ave, Glenridge Wy, and Lakemont Ave)
- Route 9 (Calvary Towers – WP Village – Rosemont)
- Route 13 (Runs along General Rees Ave, Glenridge Wy, and Lakemont Ave)
- Route 23 (Calvary Towers – Rosemont – Springs Village)
- Route 443 (Advent Health – WP Village – Rosemont)



Metrics – Analysis of Conditions

Network Connectivity (Proactive)

- Pedestrian Latent Demand
- Level of Traffic Stress

Traffic Safety (Reactive)

- Motor Vehicle Crashes
- Pedestrian and Bicyclist Crashes

Travel Time Reliability (Operations)

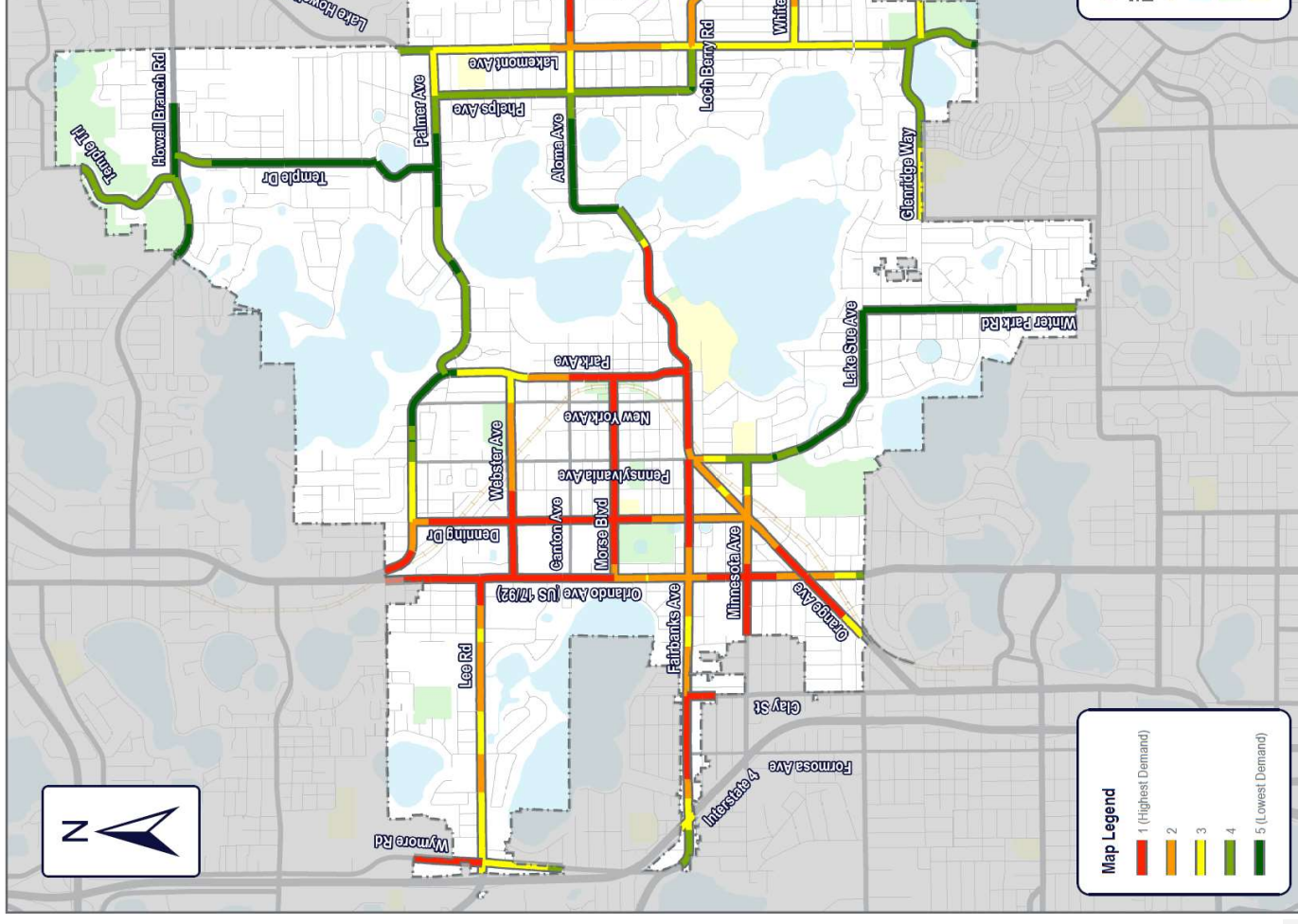
- Motor Vehicle Traffic Volumes
- Motor Vehicle Traffic Level of Service

Pedestrian Latent Demand – the land use mix likely to encourage walking, based on 2045:

- Employment
- Population
- School Enrollment



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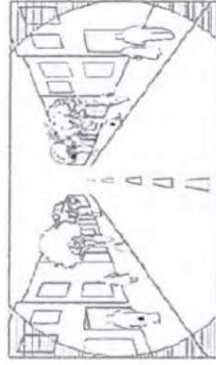
Map X.X - Pedestrian Latent Demand (2045)

Pedestrian Level of Traffic Stress

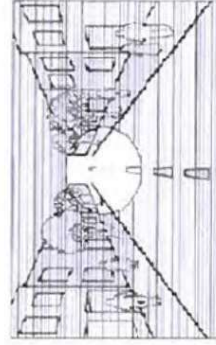
FDOT LTS for people walking, based on:

- Sidewalk present on both sides? No > LTS 4
- Posted speed limit?
- Is there separation?
- Is there vertical separation?
- *In general, sidewalks on both sides with lower traffic speeds and more separation/buffer from the roadway is preferred*

WHY SPEED MATTERS



FIELD OF VISION AT 15 MPH



FIELD OF VISION AT 30 TO 40 MPH

HIT BY A VEHICLE
TRAVELING AT:

**20
MPH**

9 OUT OF 10 PEDESTRIANS SURVIVE

HIT BY A VEHICLE
TRAVELING AT:

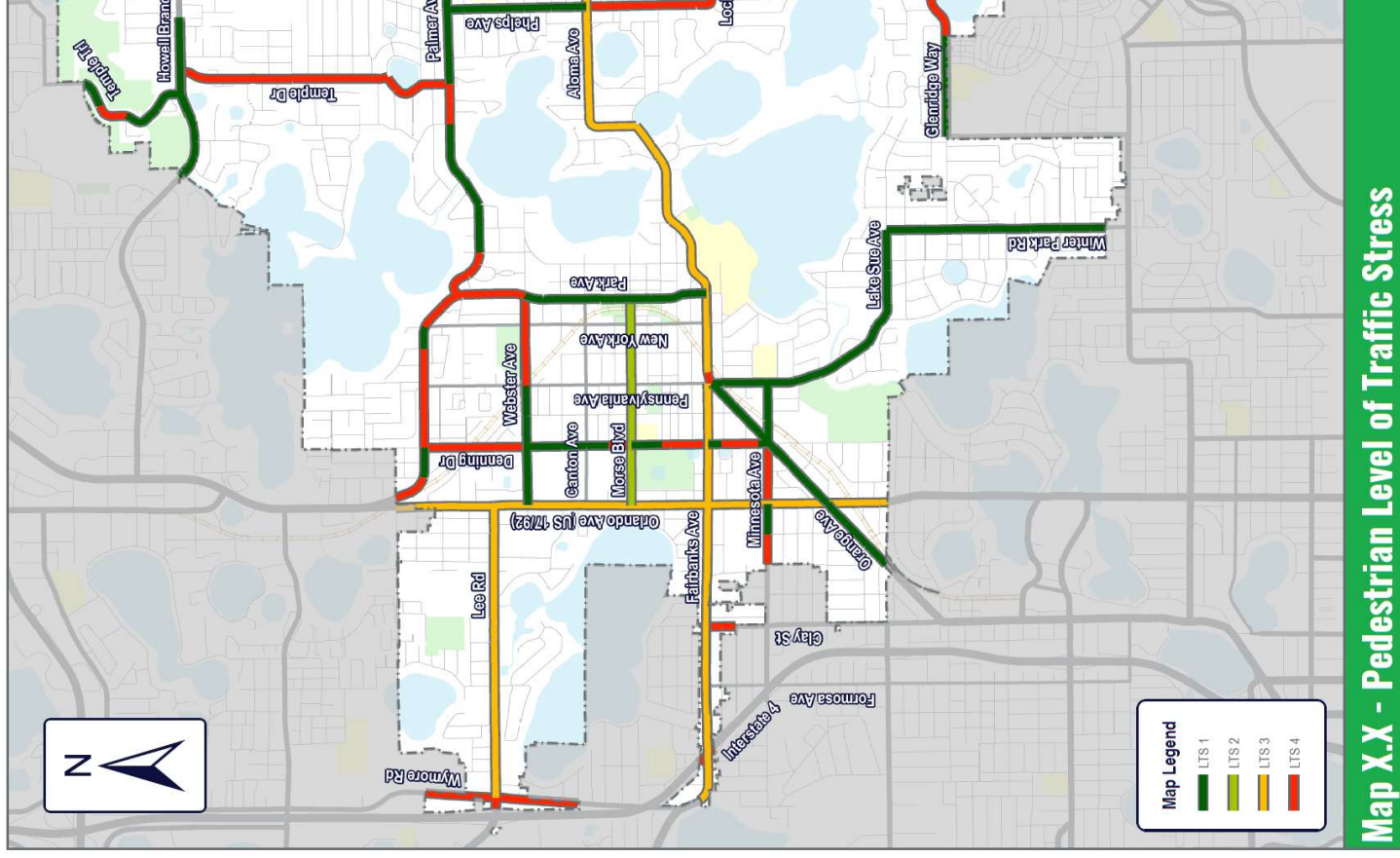
**30
MPH**

5 OUT OF 10 PEDESTRIANS SURVIVE

HIT BY A VEHICLE
TRAVELING AT:

**40
MPH**

1 OUT OF 10 PEDESTRIANS SURVIVE



Bicycle Level of Traffic Stress

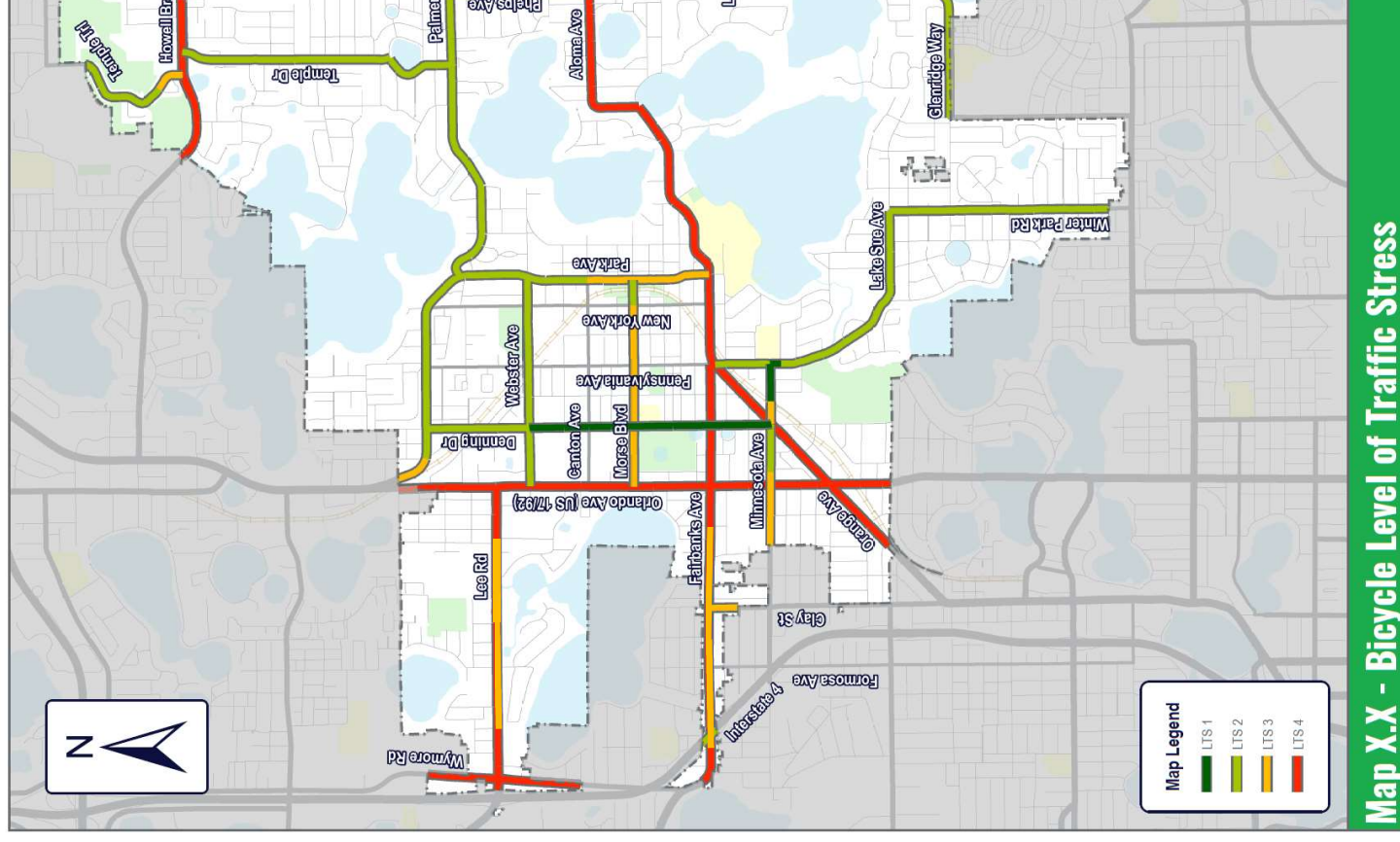


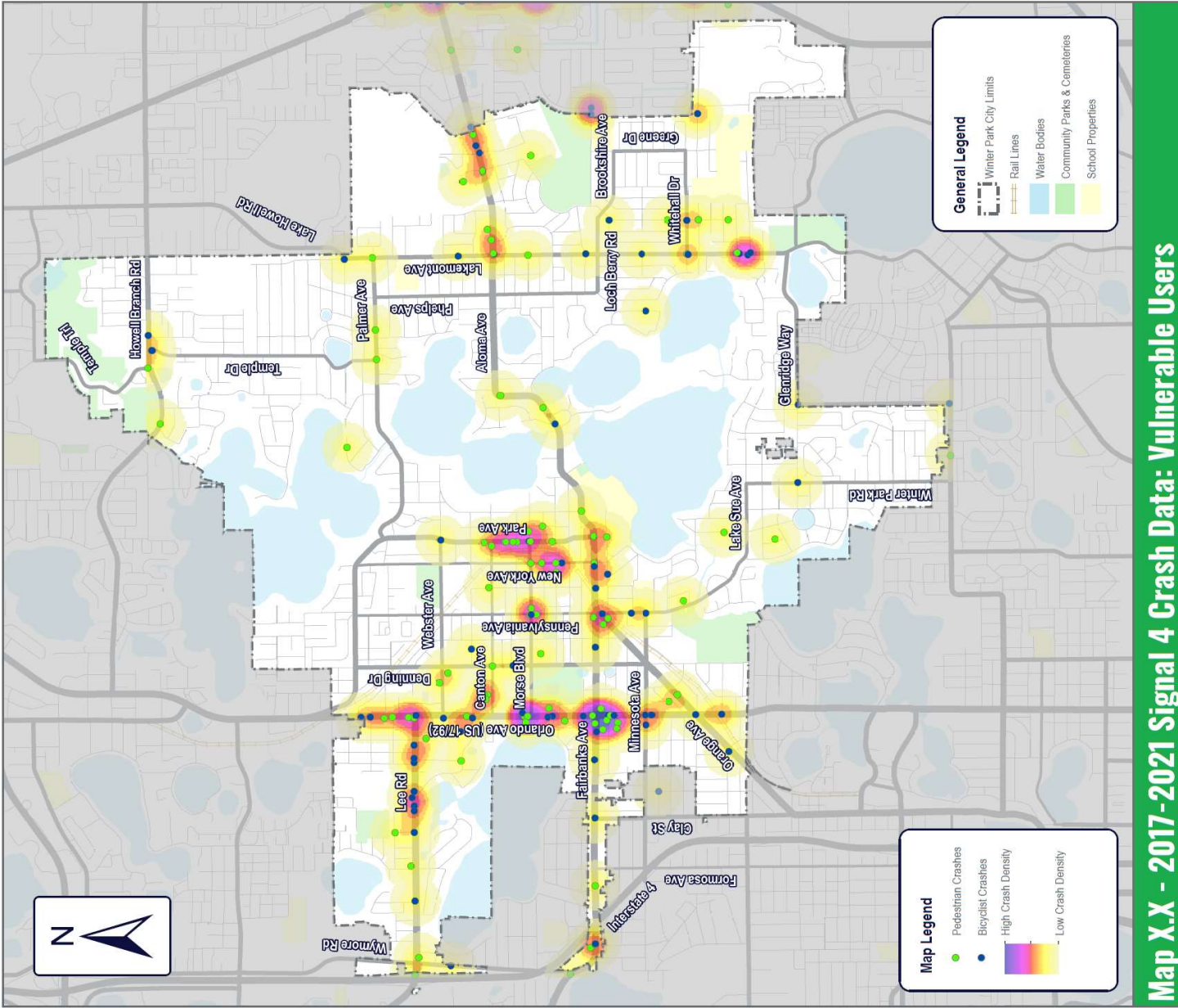
FDOT LTS with no existing bikeway facility based on:

- What is the posted speed limit?
- How many travel lanes?
- How many motor vehicles?
- Is the land use commercial or residential?
- *In general, low speed and low traffic streets are preferred when there is not a dedicated bicycle facility*

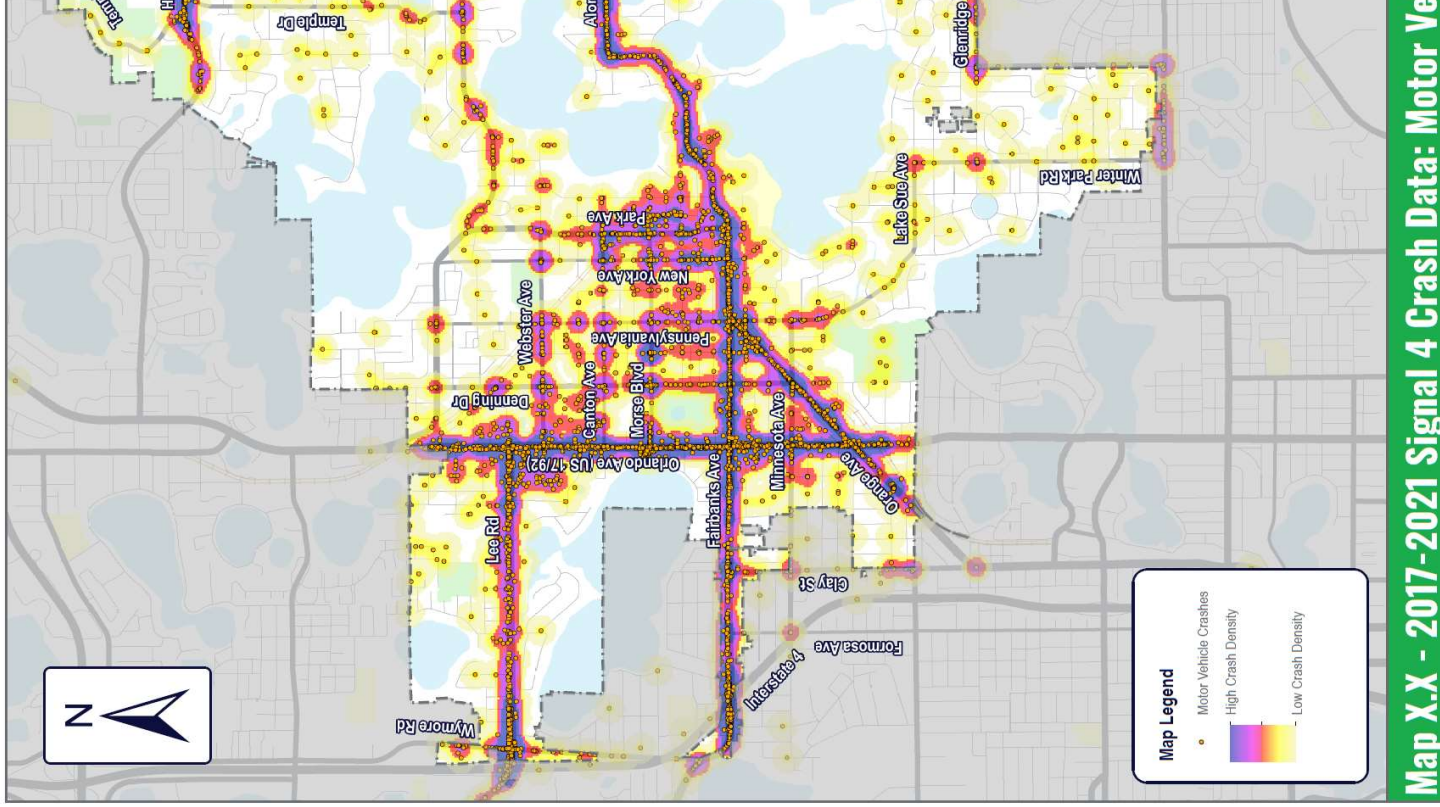
FDOT LTS with an existing bikeway facility based on:

- Is there a pathway? Yes > LTS 1
- Is there a bike lane? How wide is it?
- *In general, more separation from traffic is preferred for bicycle facilities*

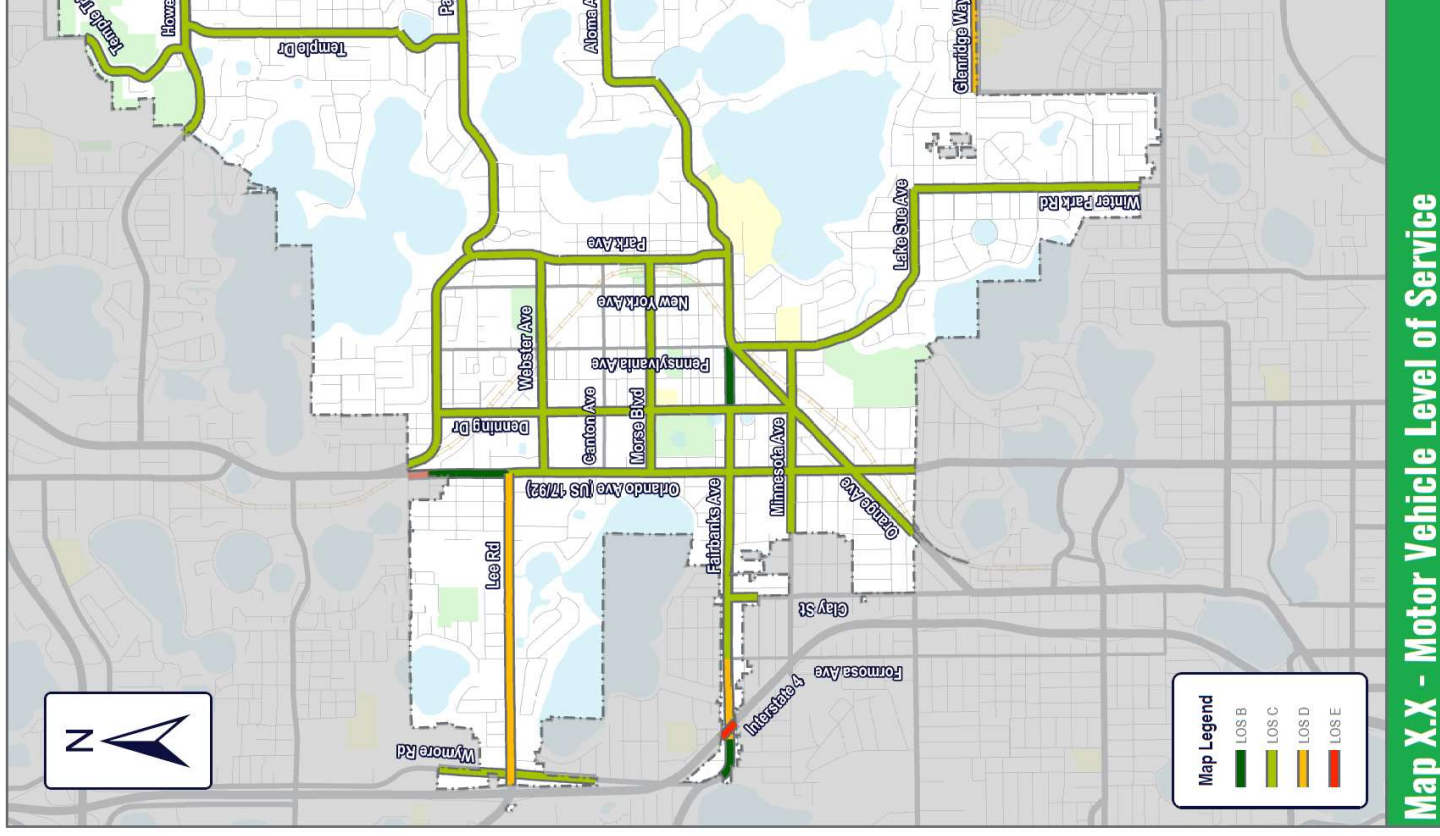
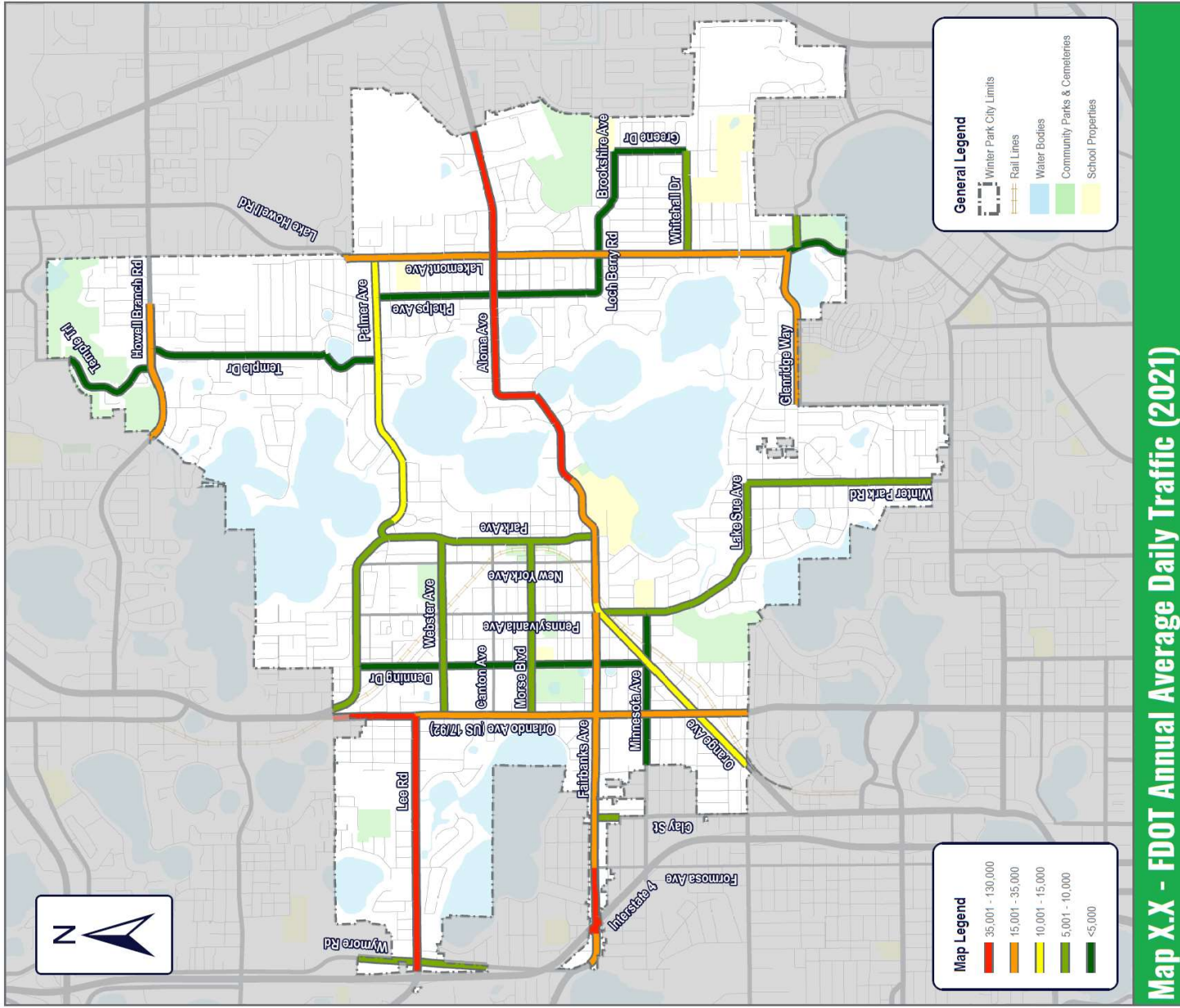




Map X.X - 2017-2021 Signal 4 Crash Data: Vulnerable Users



Map X.X - 2017-2021 Signal 4 Crash Data: Motor Vehicle



Jan 30th Transportation Advisory Board

Advised to consider the following factors:

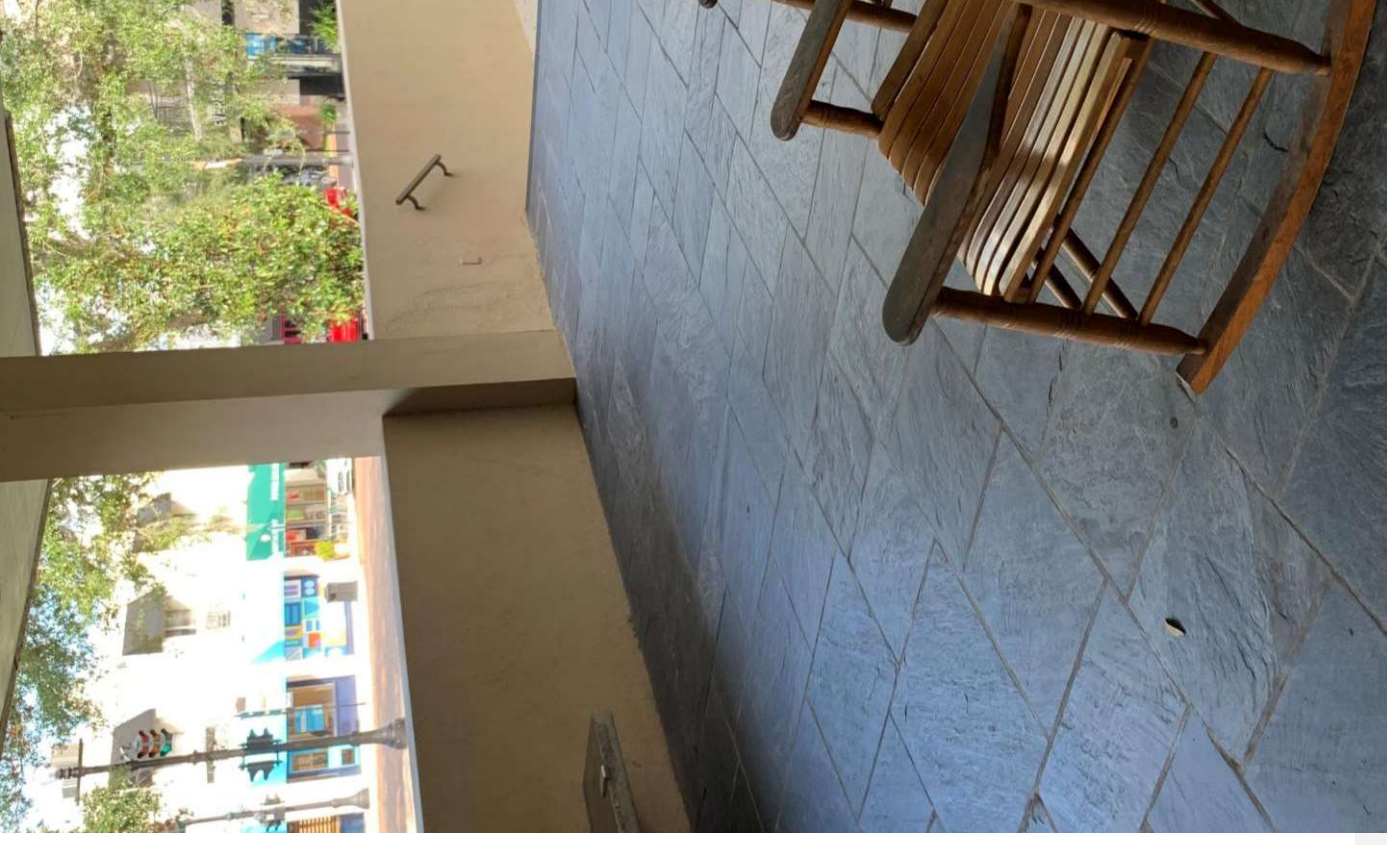
- Elderly people on foot.
- Future demographics.
- Technologies such as electric and connected vehicles.

Topical issues discussed:

- Tools to address traffic speed.
- Calculation of Level of Traffic Stress for bicyclists.
- Guidance toward latest best practices and design standards.
- Access to SunRail.
- Pass-through traffic.

Note from discussion:

- Transportation Master Plan will provide high-level list of prioritized projects with cost estimates, but not detailed design alternatives for individual locations.



Next Steps: Implementation

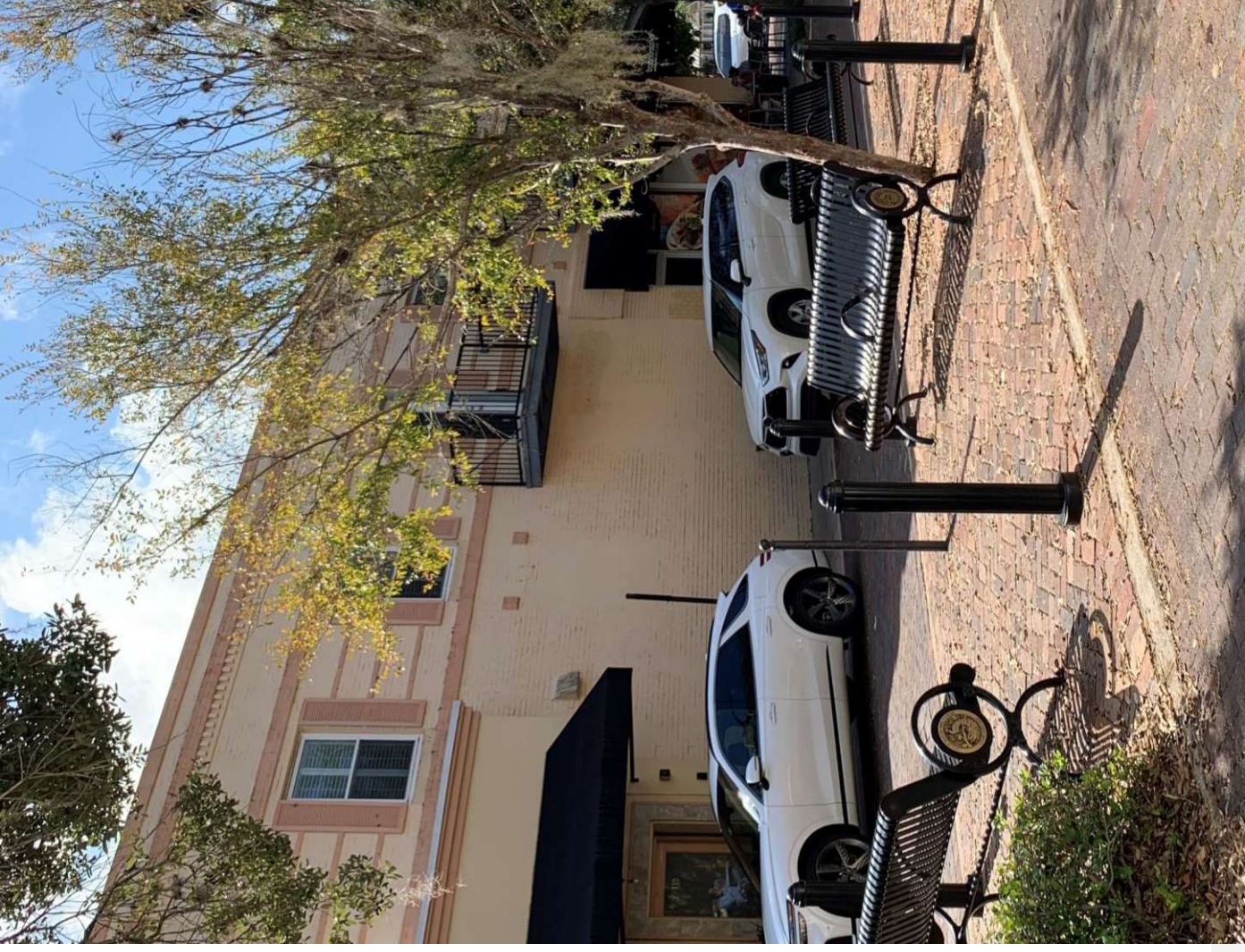
Identify Strategic Ideas & Projects

Establish 20-Year Work Program

Prioritize Projects

Align Funding Sources

Evaluate Progress



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Strategic Ideas

Greenways

- Connected Routes
- Crossings
- Brick Streets

Technology

- Operational Reliability
- Signals Coordination
- Transit Integration



Lane re-allocation to install buffered bike lanes & enhanced crossing as part of resurfacing project in St. Petersburg, FL - Dr. MLK Jr. Street

Existing Technology Review

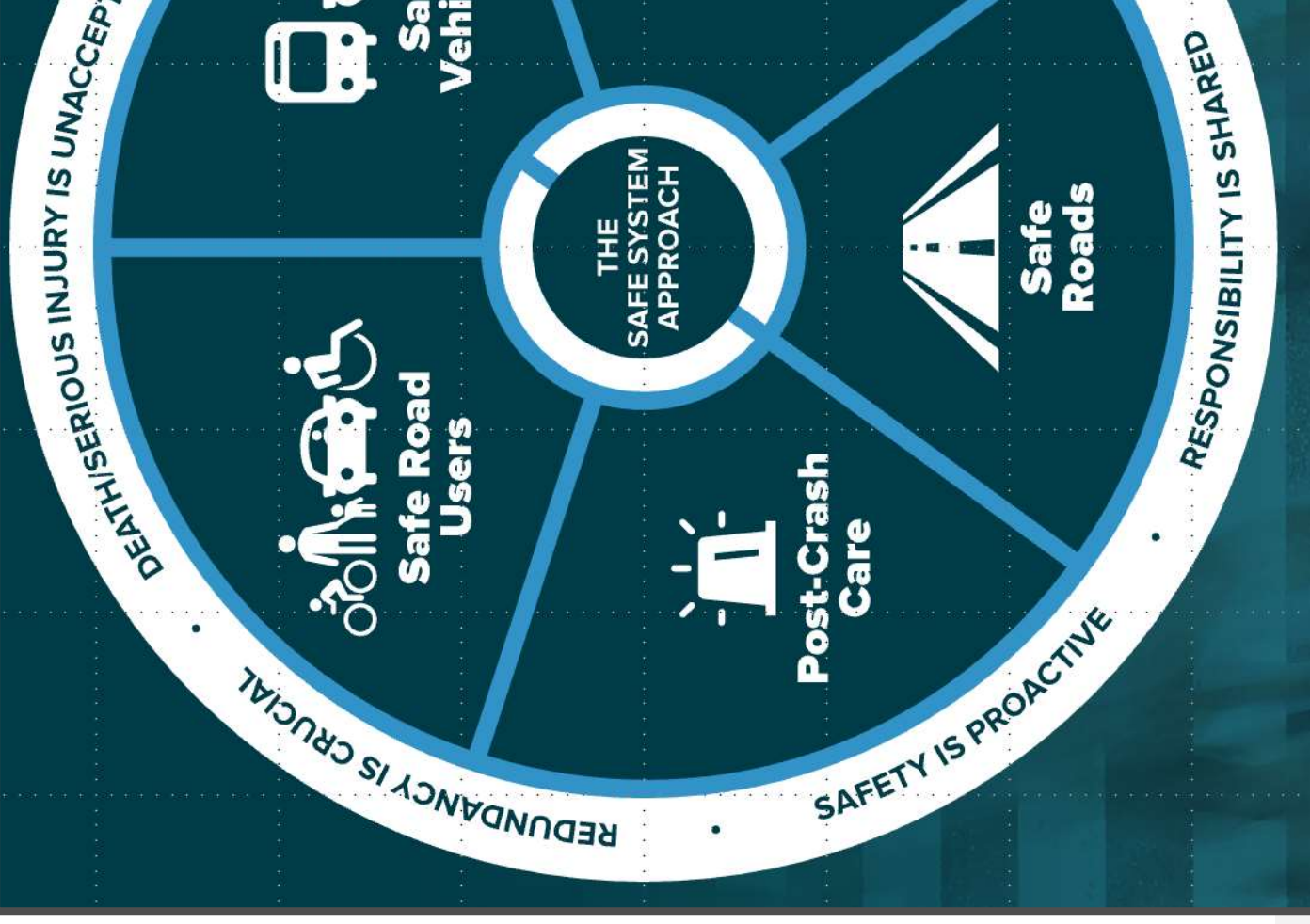
Pedestrian Safety Electronic Features

Pedestrian Roadway Access/Connectivity

School Safety Zones

Special Event Management

Traffic Signals Operations & Pre-emption



The Technology/Safety Toolbox



U.S. Department of Transportation
Federal Highway Administration

[About FHWA](#)[Programs](#)[Resources](#)[Newsroom](#)

Pedestrian/Bicyclist



[Bicycle Lanes](#)



[Crosswalk Visibility Enhancements](#)



[Leading Pedestrian Interval](#)



[Medians and Pedestrian Refuge Islands in Urban and Suburban Areas](#)



[Pedestrian Hybrid Beacons](#)



[Rectangular Rapid Flashing Beacons \(RRFB\)](#)



[Road Diets \(Roadway Configuration\)](#)



[Walkways](#)



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Transportation Master Plan Project Schedule

TENTATIVE



TASKS

1. Baseline Documentation

2. Modal & Project Metrics Evaluation

3. Technology Evaluation

4a. Project Identification

4b & c. Project Cost Estimates and Prioritization

5a. Draft Plan Document

5b. Final Plan Document

2022

2023

1

2

3

4

5

6

7

8

9

NOV

DEC

JAN

FEB

MAR

APR

MAY

JUN

JUL



LEGEND



Transportation Advisory Board



City Commission