

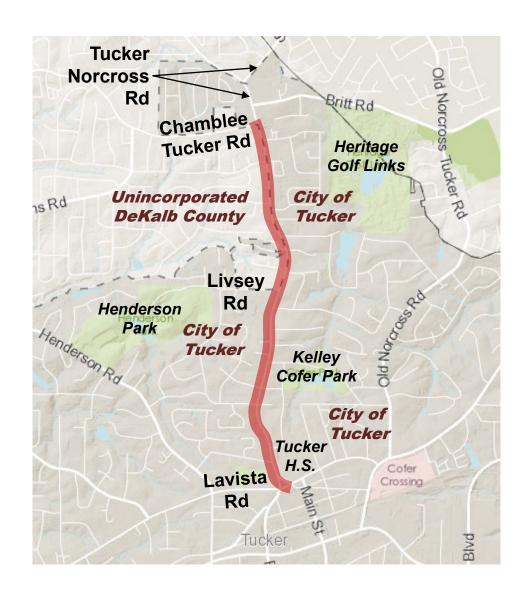
## Overview

#### Study Area

- Chamblee Tucker Road from Lavista Road to Tucker Norcross Road
  - Lavista Road to Livsey Road is Wholly in the City of Tucker
  - The West Side from Livsey Road to Tucker Norcross Road is Unincorporated DeKalb County

#### Study Purpose

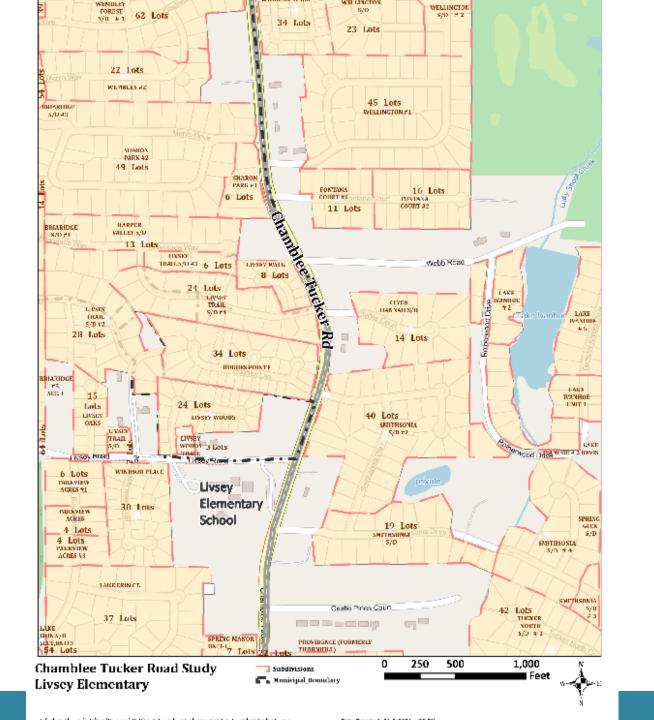
- Identify Additional Safe Pedestrian Crossings Across
   Chamblee Tucker Road
- Conduct Speed Studies and Identify Opportunities to Control Speeds
- Separate Study Underway at Lavista Road "Triangle"

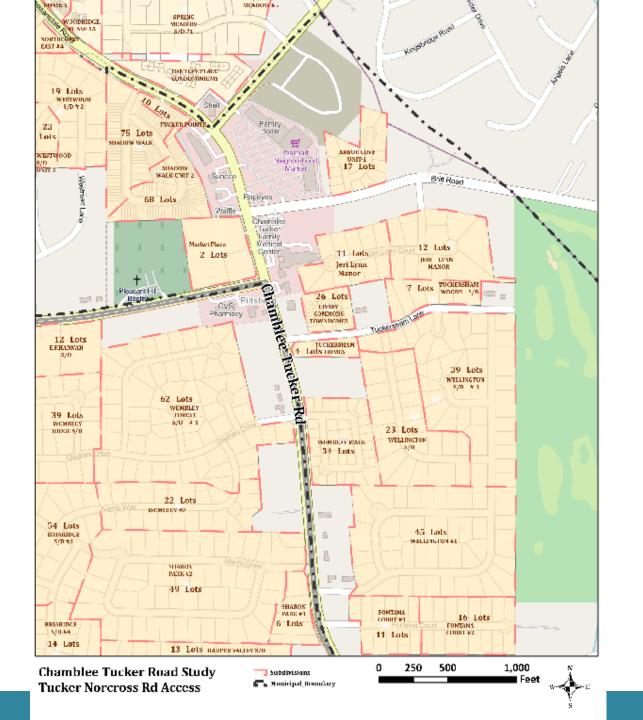


## Roadway Classifications

- Minor Arterial Provides a link between between major arterials.
  - Typically 4 lanes with turn lanes
  - Heavier traffic volumes
  - May provide transit
  - Higher speeds
- **Collector** A through street having the primary function of connecting and distributing traffic between neighborhoods and arterials.
  - 2 lanes
  - Moderate traffic volumes
  - Emphasis on lower speeds, pedestrian connectivity

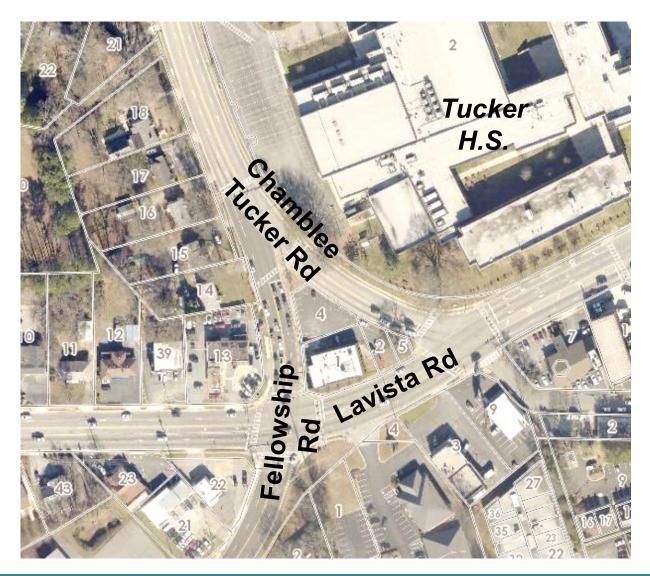






## Separate Study at Lavista Road

- Ongoing Study to Analyze and Recommend Operational and Safety Improvements for Triangle Formed by
  - Chamblee Tucker Road
  - Lavista Road
  - Fellowship Road



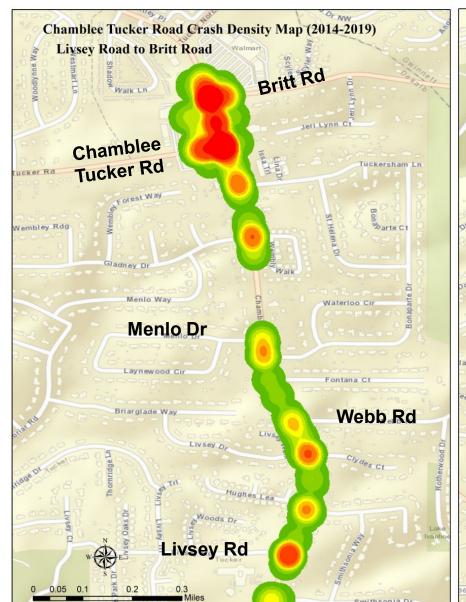
## Traffic Volumes and Speed Data

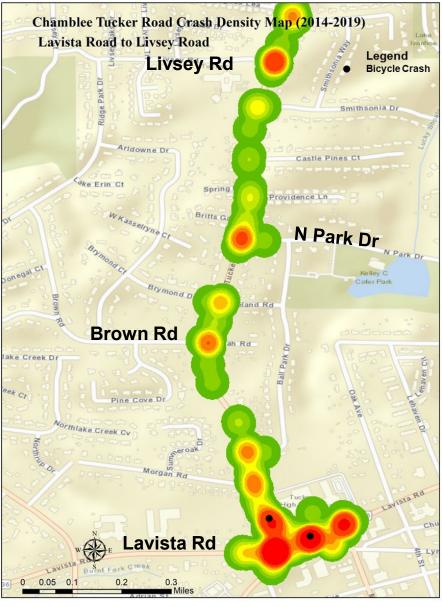
- Data Collected October 2019
- Average Daily Vehicular Volume: 20,700
- Speed Data South of Livsey Elementary
  - Speed Limit: 40 mph
  - Average Speed: 43 mph



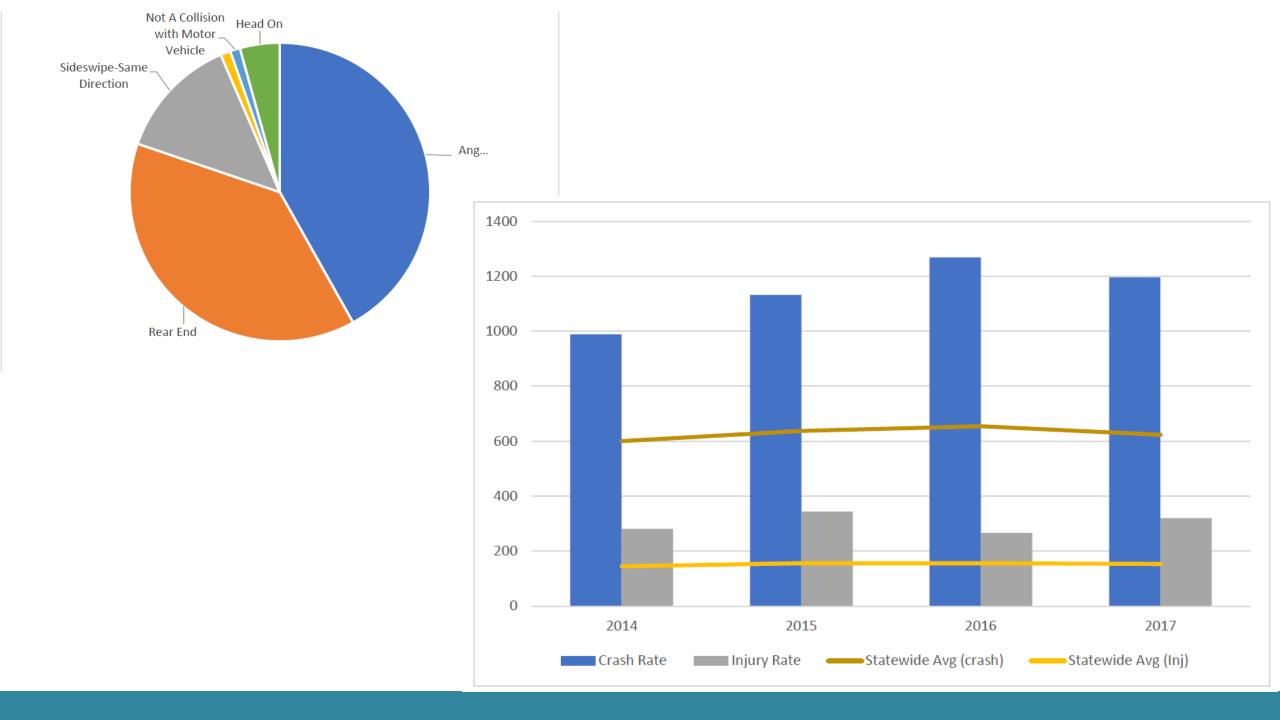
### Crash Data

- Crash Density
   Maps of 2014-2019
   Data From GDOT
- 2 Bicycle Involved Crashes at Fellowship Rd and Lavista Rd
- No Pedestrian Involved Crashes Reported
- No fatalities reported





		Year					
	Item	2014	2015	2016	2017	2018	2019
	Angle	65	71	64	82	70	76
Crash Type	Rear End	39	62	92	66	63	55
	Sideswipe-Same Direction	18	20	24	33	17	29
	Sideswipe-Opposite Direction	2	1	0	3	3	1
	Not A Collision with Motor Vehicle	0	4	2	1	2	0
	Head On	10	7	9	6	4	5
Total Crashes		134	165	191	191	159	166
Total Non-Fatal Injury Crashes		38	50	40	51	53	44
Total Fatality Crashes		0	0	0	0	0	0
AADT		22,500	24,200	25,000	26,500	21,300	17,200
Distance		1.7	1.7	1.7	1.7	1.7	1.7
Crash Rate (per 100 MVMT)		<mark>989</mark>	<b>1132</b>	<b>1269</b>	<mark>1197</mark>	<b>1239</b>	<mark>1603</mark>
Statewide Crash Rate (per 100 MVMT)		<mark>601</mark>	<mark>637</mark>	<mark>655</mark>	<mark>623</mark>	<mark>n/a</mark>	<mark>n/a</mark>
Non-Fatality Injury Crash Rate (per 100MVMT)		<mark>280</mark>	<mark>343</mark>	<mark>266</mark>	<mark>320</mark>	<mark>413</mark>	<mark>425</mark>
Statewide Non-Fatality Injury Crash Rate (per 100 MVMT)		<u>145</u>	<mark>156</mark>	<mark>156</mark>	<mark>153</mark>	<mark>n/a</mark>	<mark>n/a</mark>
Fatality Crash Rate (per 100 MVMT)		0.00	0.00	0.00	0.00	0.00	0.00
Statewide Fatality Crash Rate (per 100 MVMT)		1.25	1.75	1.60	1.46	n/a	n/a

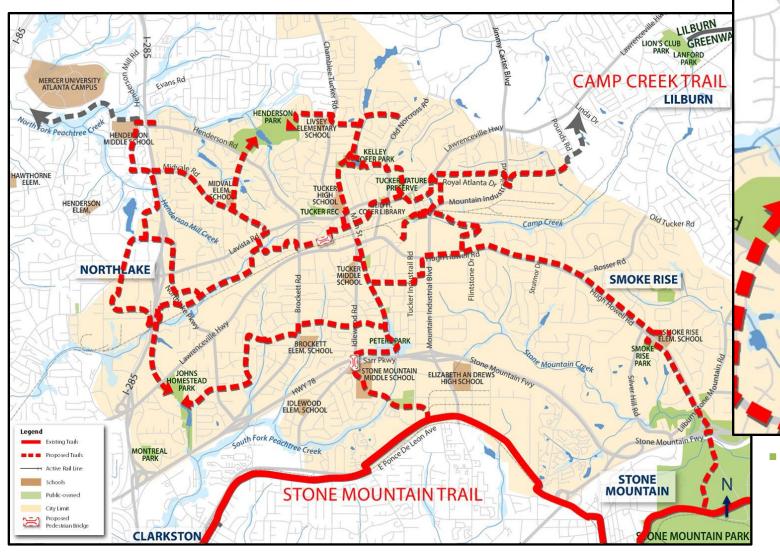


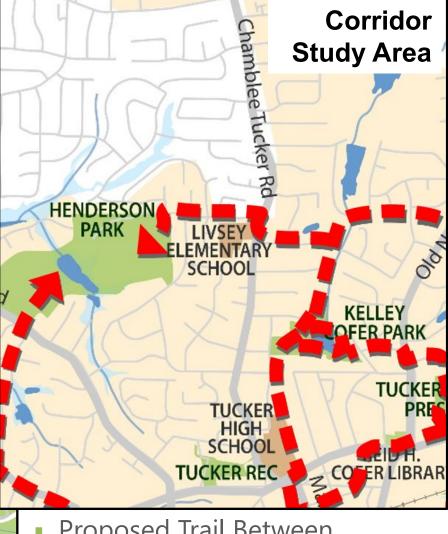
## Existing Sidewalks

- Existing Sidewalks on Both Sides of Chamblee Tucker Road Throughout Corridor in Acceptable Condition
- Most Sidewalks are 4-Foot Wide, Substandard per ADA Guidance of 5-Foot Minimum Width
- Most Curb Cut Ramps at Crosswalks and Driveways Aprons Do Not Comply With ADA Guidelines Regarding Grades, Cross-Slopes and Detectable Warnings



## Tucker Trail Master Plan





Proposed Trail Between
Henderson Park and Kelley
Cofer Park Crosses Corridor at
Livsey Road

## Improvements Considered

#### Reduce Speed Limit from 40 mph to 35 mph

GDOT Will Need to Review and Approve a Radar Permit to Reduce Speed Limit

#### Reconstruct Sidewalks, Driveway Aprons and Curb Cut Ramps to Comply With ADA

 Consider Budgeting Funds for Citywide Replacement of ADA Non-Compliant Curb Cut Ramps

#### Provide Additional Pedestrian Crossings Across Chamblee Tucker Road

Consider Alternatives to Provide Additional Crossings

#### Implement Lane Diet

- Convert Roadway to One Lane in Each Direction With Center Turn Lane and Bike Lanes
- Improves Conditions for Pedestrian Crossings Across Chamblee Tucker Road
- Could be Catalyst to Reduce Speeds

## Implementation Plan

- Addresses Providing Additional Pedestrian Crossings Across Chamblee Tucker Road and Potential Implementation of Lane Diet
  - Alternative No. 1
     Existing Four-Lane Roadway Typical Section With Pedestrian Hybrid Beacon Crossings
  - Alternative No. 2
     Lane Diet/Three-Lane Roadway Typical Section With Rectangular Rapid Flashing Beacon (RRFB) Pedestrian Crossings, Reducing Speed Limit Will be Considered
- Plan Does Not Address
  - Reconstructing Sidewalks, Driveway Aprons and Curb Cut Ramps to Comply With ADA

# Alternative No. 1

Existing Roadway Typical Section With Pedestrian Hybrid Beacon Crossings

# Alternative No. 1 – Existing Roadway Typical Section With Pedestrian Hybrid Beacon Crossings

Roadway Typical Section



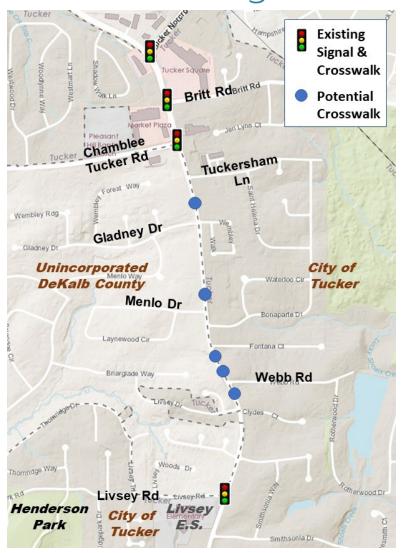


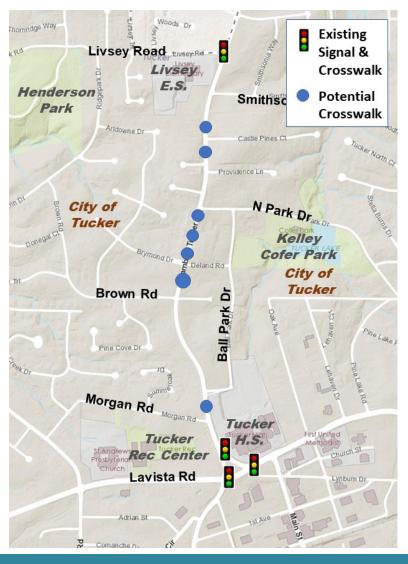
 Proposed Crossings Similar to Crosswalk With Pedestrian Hybrid Beacon on Glenwood Road



# Alternative No. 1 – Existing Roadway Typical Section With Pedestrian Hybrid Beacon Crossings

- Maps Show:
  - Existing Signals With Crosswalks
  - Potential Pedestrian Crossing Locations
- Would Not Install Crossings at All Potential Locations



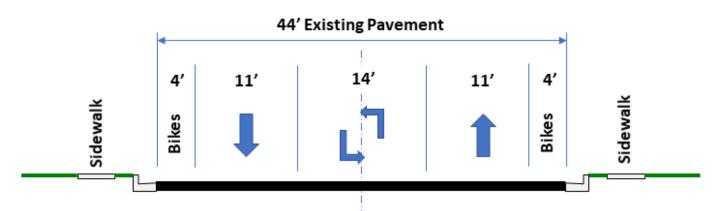


# Alternative No. 1 – Existing Roadway Typical Section With Pedestrian Hybrid Beacon Crossings



 Proposed Roadway Typical Section for Lane Diet

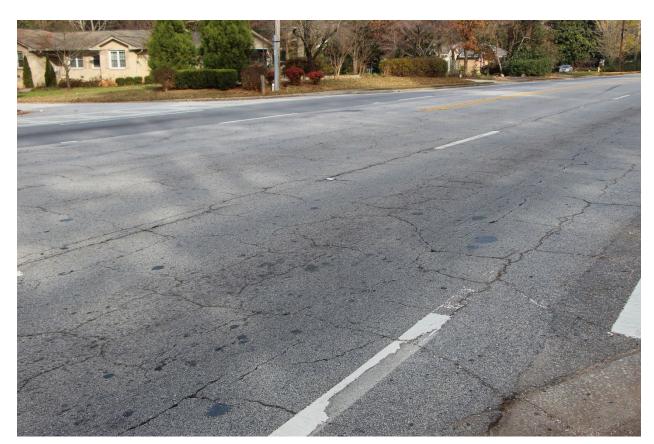
- Proposed Lane Diet
   Almost Identical to Lane
   Diet Implemented on
   North Decatur Road at
   Emory
- Traffic Volumes on North Decatur Road are Similar to Chamblee Tucker Road Volumes





Lane Diet Alternative Could be Implemented With the Next Pavement Resurfacing Project

- Facilitates Clean Removal of Existing Pavement Markings
- Reduces Cost of Implementing the Lane Diet
- Anticipate Needing to Resurface the Pavement in 3 to 4 Years



 Proposed Roadway Typical Section for Lane Diet With Raised Island

44' Existing Pavement

4' 11' 14' 11' 4'

Raised Median

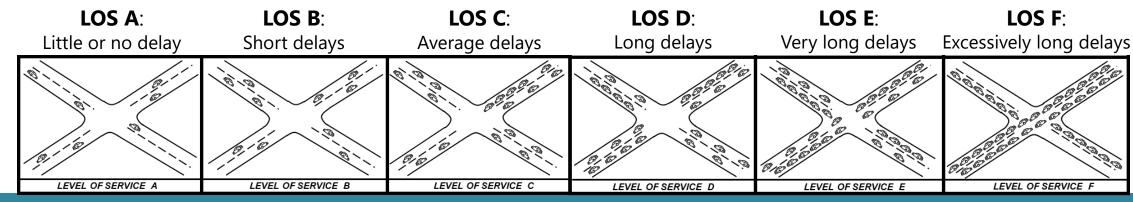
 Example Crosswalk With Median Island on Parsons Road in Johns Creek



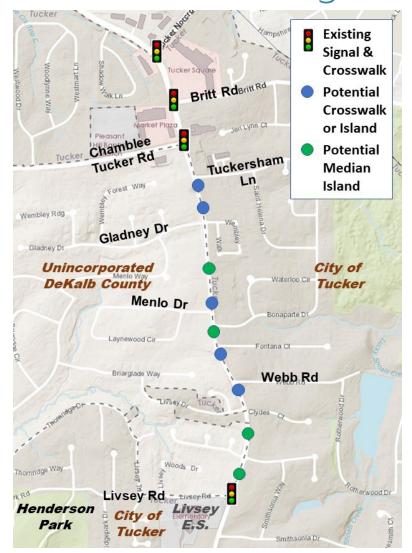
## Lane Diet Intersection Operational Analysis

- Through Lanes on Chamblee Tucker Road Reduced at Livsey Road Intersection:
  - One Lane in Each Direction Southbound and Northbound, Plus Center Left Turn Lane
  - Intersection Will Operate Acceptably During Peak Periods
- No Lane Reductions at Lavista Road, Fellowship Road or Tucker Norcross Road Intersections

	Intersection Level of Service (LOS)							
Intersection	AM	Peak	PM Peak					
intersection	Four-Lane (Existing)	Three-Lane (Road Diet)	Four-Lane (Existing)	Three-Lane (Road Diet)				
Chamblee Tucker Rd @ Livsey Rd	В	С	Α	E				



- Maps Show:
  - Existing Signals With Crosswalks
  - Potential Pedestrian
     Crossings Locations
     With Median Islands
  - Potential Median
     Island Locations
     Without Pedestrian
     Crossings
- Would Not Install
   Crossings or Median
   Islands at All Potential
   Locations

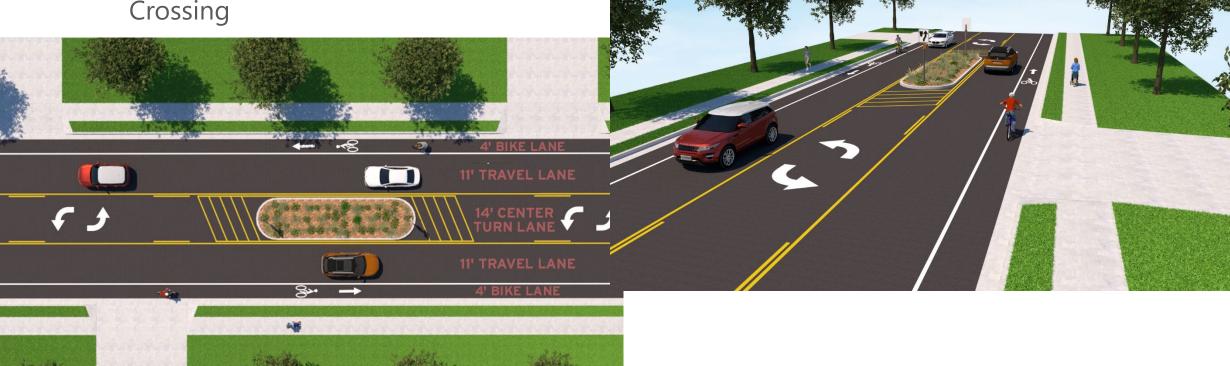




 Plan and Perspective Views of Typical Pedestrian Crossing With Median Island



 Plan and Perspective Views of Typical Median Island Without Pedestrian Crossing



## Comparative Costs of Alternatives

#### Alternative No. 1 – Existing Four-Lane Roadway Typical Section

- Typical Cost of Each Pedestrian Crossing: \$140,000
- Anticipate 4 to 6 Pedestrian Crossings
- Total Alternative Cost: \$560,000 to \$840,000



#### Alternative No. 2 – Lane Diet/Three-Lane Roadway Typical Section

- Additional Cost for Implementing Lane Diet During Resurfacing: \$40,000
- Typical Cost of Each Pedestrian Crossing With Median Island: \$60,000
- Typical Cost of Each Median Island Without Pedestrian Crossing: \$20,000
- Anticipate 6 to 8 Pedestrian Crossings and 4 to 6 Median Islands
- Total Alternative Cost: \$480,000 to \$640,000





## Next Steps

- Address Comments
- Finalize Study Report
- Determine Desired Improvements
- Identify Funding
- Prepare Construction Plans
- Construct Improvements