



# Corridor Improvements

# FUTURE TRAFFIC

Projected 2039 Level of Service (LOS) Conditions at Intersections Along the Hwy 78 Corridor

LEGEND

- LOS
- A
  - D
  - F
  - Better than No Build
  - Worse than No Build
  - No Significant Change

LEVEL OF SERVICE (LOS)

**LOS A**  
Free Flow

**LOS D**  
Approaching Unstable Flow

**LOS F**  
Forced Flow

- Alternative 1**
- Intersection Improvements
  - 10' MUP and 5' sidewalk throughout corridor
- Alternative 2**
- Intersection Improvements
  - 3 Lane Widening from BGM to Fairground
  - 10' MUP and 5' sidewalk throughout corridor
- Alternative 3**
- Intersection Improvements
  - 5 Lane Widening from BGM to Fairground
  - 10' MUP and 5' sidewalk throughout corridor
- Alternative 4**
- Intersection Improvements
  - 5 Lane Widening from BGM to Fairground
  - 6 Lane Widening from I-26 to Rivers Ave
  - 10' MUP and 5' sidewalk throughout corridor







Years 2029, 2039 and 2049  
analyzed

Incorporated Projects:

- Lowcountry Rapid Transit  
30% Design
- Berlin G. Myers Pkwy.  
Extension

Traffic volumes:

- Approximately 48,000 daily  
vehicles south of College  
Park Road/Ladson Road area
- Approximately 16,000 daily  
vehicles north of College Park  
Road/Ladson Road area

Number of Locations where Level of Service Improves or Declines when Compared to the No Build Alternative									
Costs			Year 2029		Year 2039		Year 2049		
\$	<u>Alternative 1</u> <ul style="list-style-type: none"><li>• Intersection Improvements</li><li>• 10' MUP and 5' sidewalk throughout corridor</li></ul>	Roadway Segments	✓ 9	✗ 2	✓ 11	✗ 0	✓ 5	✗ 0	
		Intersections	✓ 2	✗ 2	✓ 5	✗ 1	✓ 4	✗ 2	
\$\$	<u>Alternative 2</u> <ul style="list-style-type: none"><li>• Intersection Improvements</li><li>• 3 Lane Widening from BGM to Fairground</li><li>• 10' MUP and 5' sidewalk throughout corridor</li></ul>	Roadway Segments	✓ 11	✗ 3	✓ 12	✗ 0	✓ 8	✗ 0	
		Intersections	✓ 17	✗ 0	✓ 14	✗ 0	✓ 12	✗ 0	
\$\$\$	<u>Alternative 3</u> <ul style="list-style-type: none"><li>• Intersection Improvements</li><li>• 5 Lane Widening from BGM to Fairground</li><li>• 10' MUP and 5' sidewalk throughout corridor</li></ul>	Roadway Segments	✓ 7	✗ 4	✓ 5	✗ 1	✓ 3	✗ 1	
		Intersections	✓ 18	✗ 0	✓ 15	✗ 2	✓ 9	✗ 3	
\$\$\$\$	<u>Alternative 4</u> <ul style="list-style-type: none"><li>• Intersection Improvements</li><li>• 5 Lane Widening from BGM to Fairground</li><li>• 6 Lane Widening from I-26 to Rivers Ave</li><li>• 10' MUP and 5' sidewalk throughout corridor</li></ul>	Roadway Segments	✓ 13	✗ 3	✓ 15	✗ 3	✓ 6	✗ 6	
		Intersections	✓ 15	✗ 11	✓ 15	✗ 11	✓ 8	✗ 10	

✓ = IMPROVE      ✗ = DECLINE



# Corridor Improvements

W E L C O M E T O T H E

# HWY 78

CORRIDOR IMPROVEMENTS

**PUBLIC INFORMATION**

**MEETING**



**THE PURPOSE OF TODAY'S PUBLIC  
INFORMATION MEETING IS TO:**

- Update the community on the project.
- Present the results of Phase 1 traffic studies.
- Introduce the preliminary alternatives.
- Gather input on the preliminary alternatives.

**Your attendance and feedback are very  
important components of the project  
development process.**





**Corridor**  
**Improvements**

# CONTACT US



Visit:  
**hwy78corridor.com**



Call Project Hotline:  
**(843) 420-3016**



Email us to leave comments or  
join the project mailing list:  
**info@hwy78corridor.com**



Fill out and submit  
comment forms  
provided



Follow Charleston County  
on Facebook, Instagram,  
and Twitter







# Corridor Improvements

# PROJECT GOALS & STUDY AREA



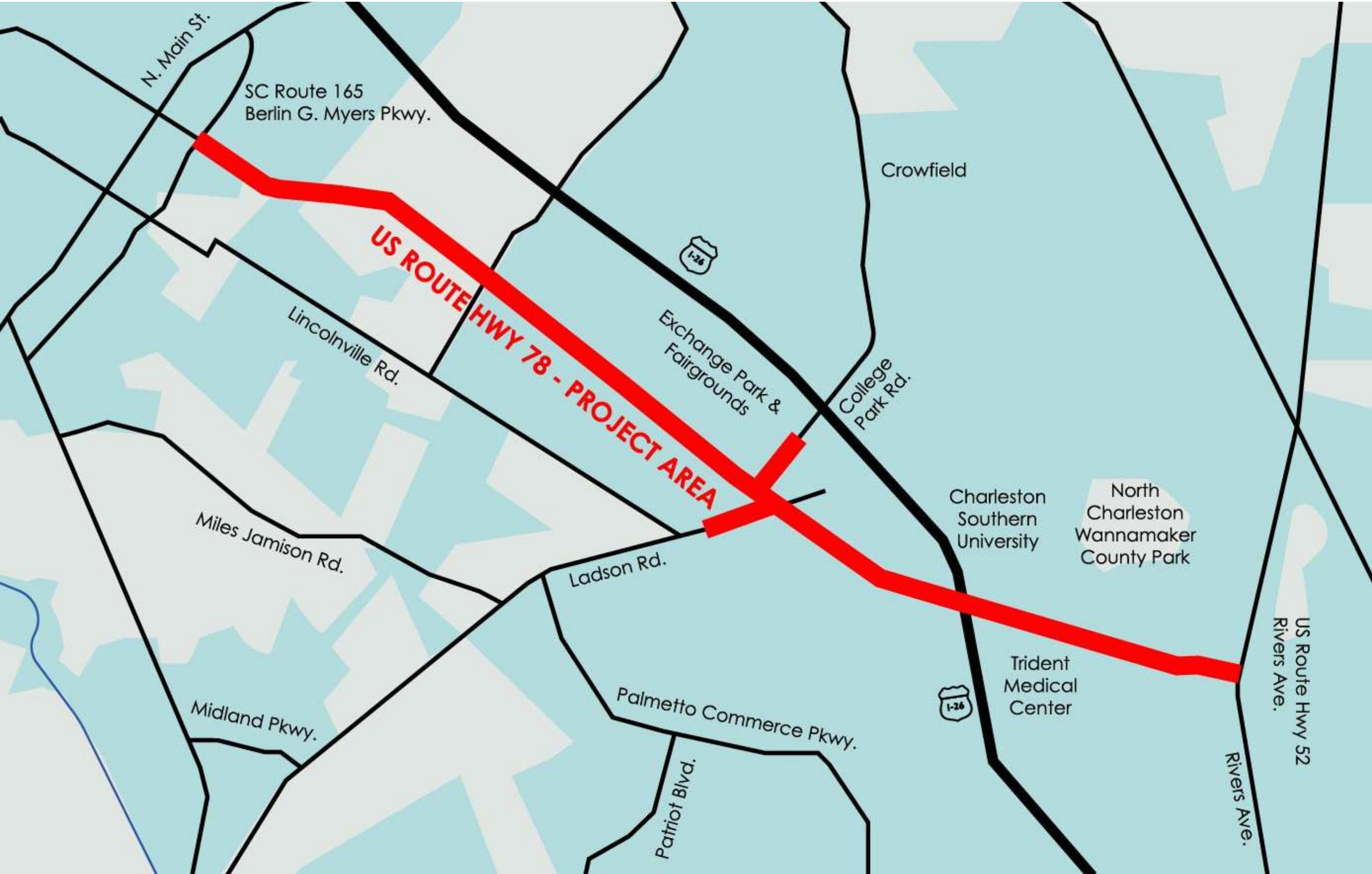
Improve capacity along Hwy 78 from Rivers Avenue (US 52) to Berlin G. Myers Parkway (SC 165).



Provide safe opportunities for bicyclists and pedestrians.



Reduce congestion and increase capacity at key intersections along the project corridor.







## Hwy 78 Corridor Improvements Timeline / Milestones



*All dates are subject to change and will be updated as the project development progresses.*

*\*The Low Country Rapid Transit (LCRT) project is currently under design. Construction start and project completion could change based on the LCRT project schedule and the alternative that is ultimately approved for the Charleston County's Hwy 78 project.*





**An Environmental Document is Required for Projects Involving a Federal Action to:**

- Provide for an informed decision making process
- Include public in the process
- Consider a wide variety of factors

**WE ARE HERE!**

**Collect Data**

- Analyze existing conditions
- Identify needed studies
- Begin preparation of the environmental report

**Publish Draft Environmental Document**

- Release draft environmental report
- Conduct public hearing
- Hold public comment period
- Review all public/agency comments received

**Make Decision**

- Prepare and publish federal decision

1

**Initiate the Environmental Process**

- Develop the Purpose & need
- Conduct agency & public scoping meetings
- Begin developing alternatives

2

3

**Analyze Alternatives**

- Begin alternatives analysis
- Analyze the environmental impacts of alternatives

4

5

**Publish Final Environmental Document**

- Review & develop responses to comments on the draft environmental report
- Prepare final environmental report addressing public/agency comments
- Hold public reviewing period

6



# ALTERNATIVES SCREENING



*\*At each screening level, alternatives are designed and evaluated at an equal level of detail.*







# Corridor Improvements

# College Park/Ladson Road

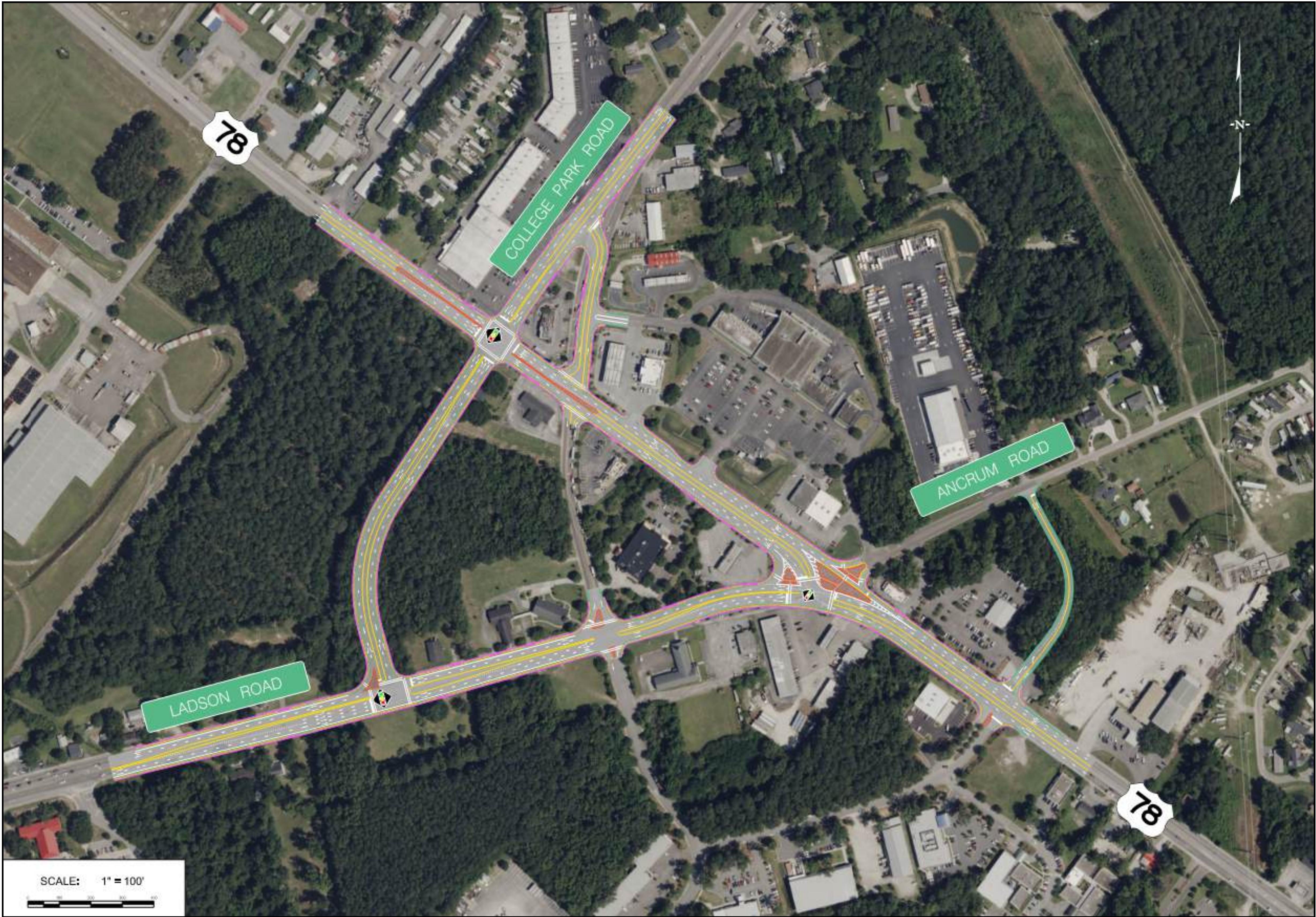
### LEGEND

- Proposed Roadway
- Proposed Sidewalk
- Proposed Concrete Median
- Proposed Signal Locations

### Intersection Preferred Alternative

- Relocates the intersections of Hwy 78 at College Park Road and Ladson Road at College Park Road.
- Signalizes the intersection of Ladson Road at College Park Road.
- Reconfigures Hwy 78 at the intersection of Hwy 78 at Ladson Road.
- Ancrum Road approach becomes right-in/right-out.
- Widens College Park Road to a 5-lane section between Hwy 78 and Ladson Road.
- Turning movements reduced at intersections. Extension of College Park Road reduces forced left and right turn movements on US 78.

\*The College Park/Ladson Road Intersection Preferred Alternative is included in all Hwy 78 Corridor Improvement Alternatives.







# Corridor Improvements

## LEGEND

- Intersection Improvement
- College Park/Ladson Road Intersection
- Existing Roadway Typical Sections
- Proposed Roadway Typical Sections

1 Travel Lane in Each Direction

1 Travel Lanes in Each Direction w/ TWLT

2 Travel Lanes in Each Direction w/ TWLT

LCRT Bi-directional Reversible Lane

LCRT Center-Running BRT

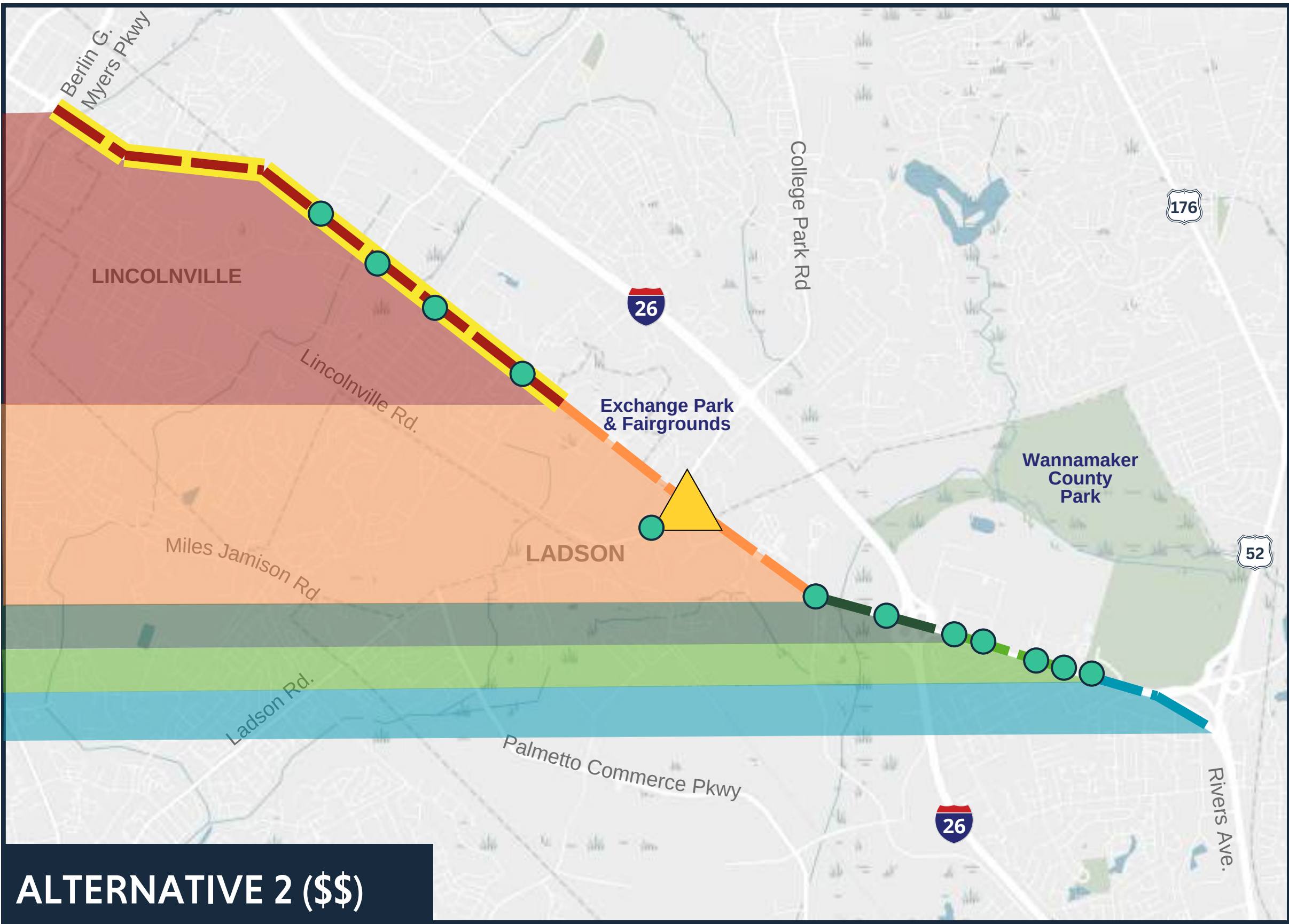
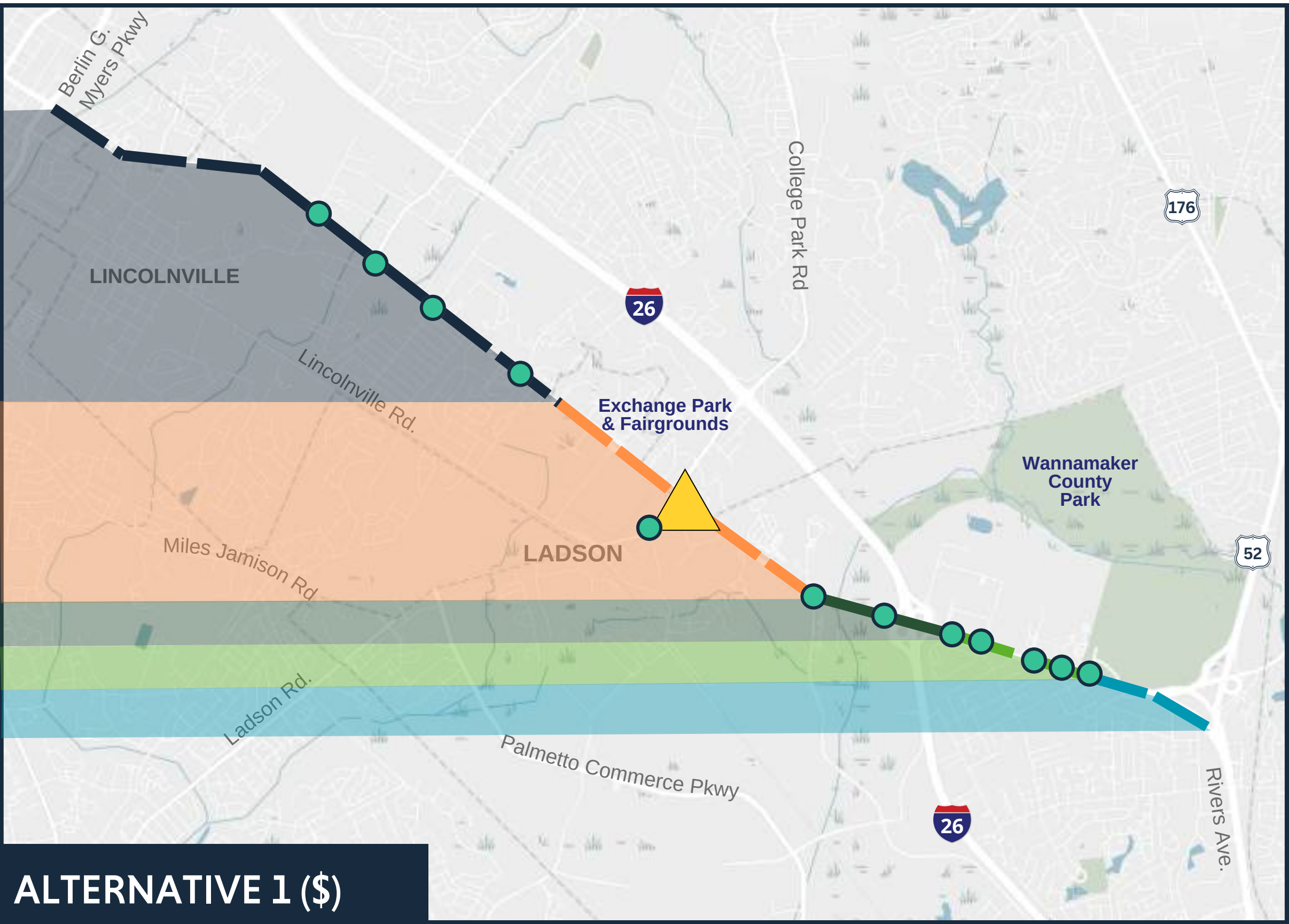
LCRT Side-Running BRT

LCRT Bi-directional Reversible Lane w/ 3 Travel Lanes Each Direction

LCRT Center-Running BRT w/ 3 Travel Lanes Each Direction

LCRT Side-Running BRT w/ 3 Travel Lanes Each Direction

# ALTERNATIVES 1-4







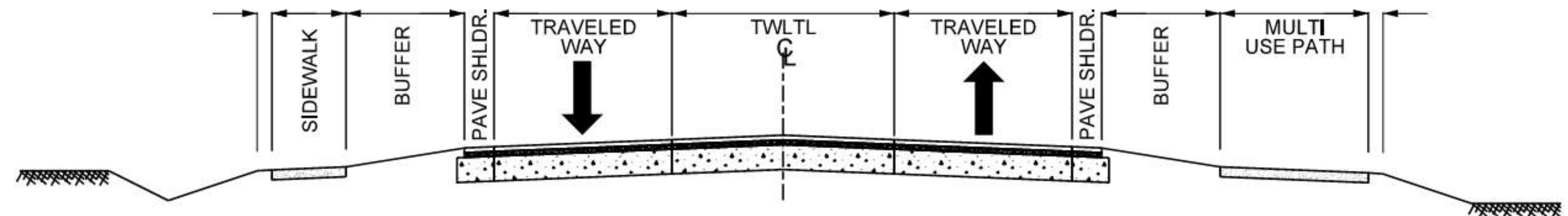
## Corridor Improvements

# TYPICAL SECTION

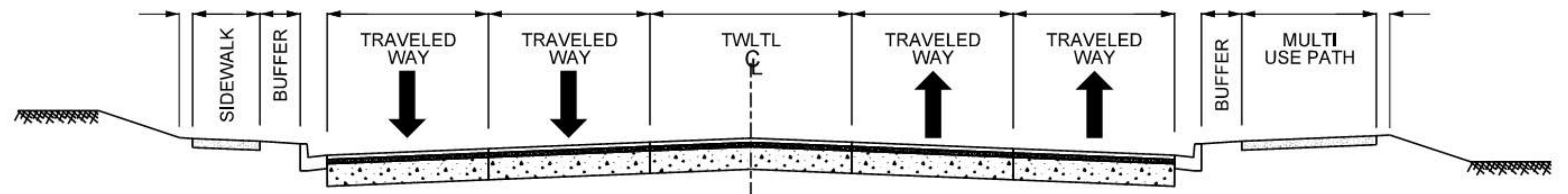
Over the course of five years, a total of 171 rear-end crashes took place within the existing two-lane section of Highway 78. These rear-end collisions accounted for 53.4% of all crashes occurring in that same section.

The proposed addition of a two-way center turn lane (TWLT) will effectively eliminate vehicles waiting to make left turns from the travel lanes. By removing left-turning vehicles from these lanes, the number of stopped vehicles waiting to turn is reduced, ultimately enhancing safety, and minimizing the likelihood of rear-end crashes.

### 1 Travel Lane in Each Direction w/ TWLT



### 2 Travel Lanes in Each Direction w/ TWLT







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# TRAFFIC ANALYSIS SUMMARY

Years 2029, 2039 and 2049 analyzed

Incorporated Projects:

- Lowcountry Rapid Transit 30% Design
- Berlin G. Myers Pkwy. Extension

Traffic volumes:

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# Corridor Improvements

# ALTERNATIVE 1

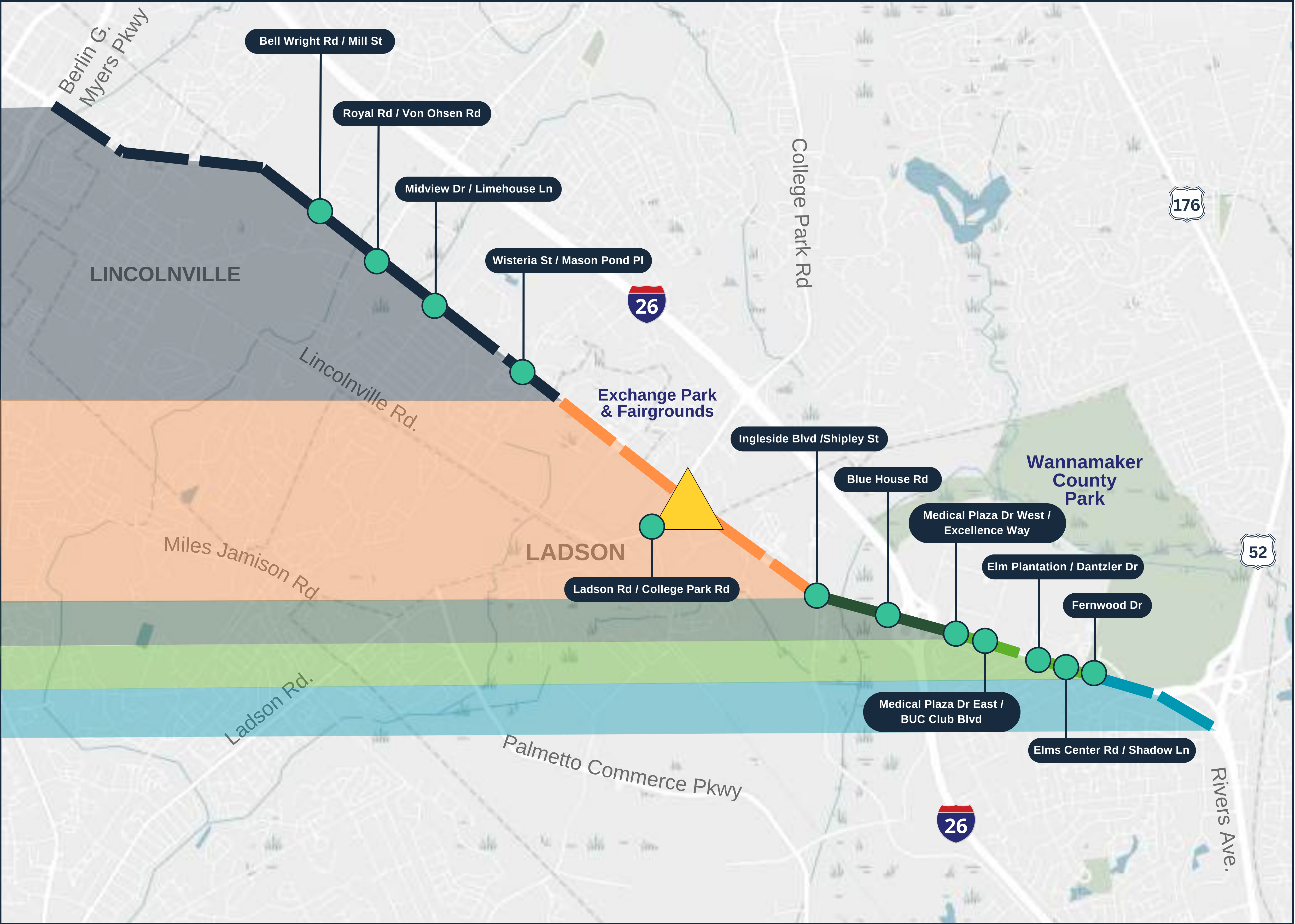
**PROPOSED IMPROVEMENTS (\$)**

- Intersection Improvements
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

**LEGEND**

- Intersection Improvement
- College Park/Ladson Road Intersection
- Existing Roadway Typical Sections

	1 Travel Lane in Each Direction
	2 Travel Lanes in Each Direction w/ TWLT
	LCRT Bi-directional Reversible Lane
	LCRT Center-Running BRT
	LCRT Side-Running BRT








# Corridor Improvements


# ALTERNATIVE 2


**PROPOSED IMPROVEMENTS (\$\$)**


- Intersection Improvements (same as Alt 1)
- 3 Lane Widening from Berlin G Myers to Fairground
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

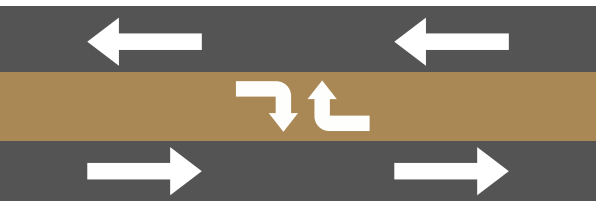
**LEGEND**

 Intersection Improvement

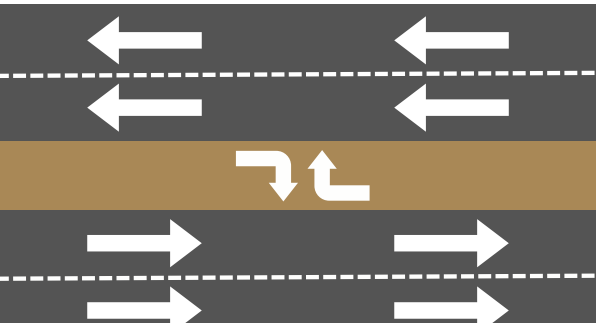
 College Park/Ladson Road Intersection

 Existing Roadway Typical Sections

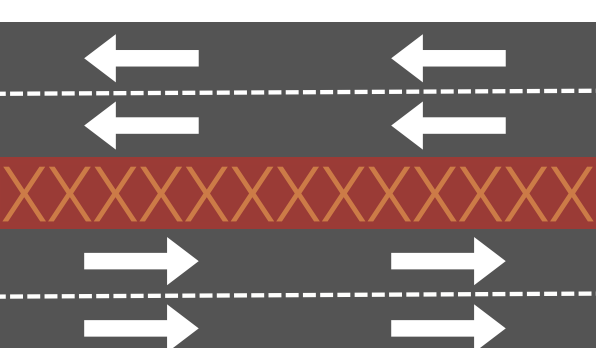
 Proposed Roadway Typical Sections



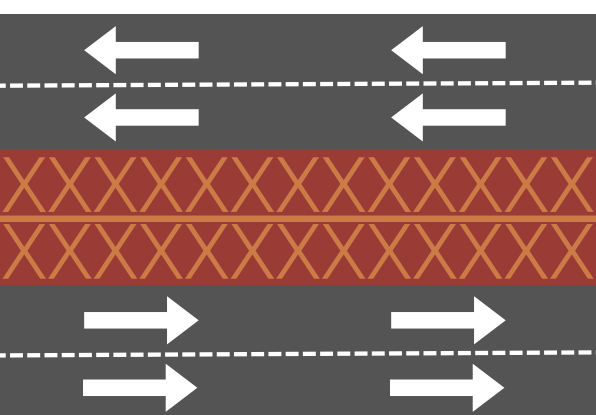
1 Travel Lanes in Each Direction w/ TWLT



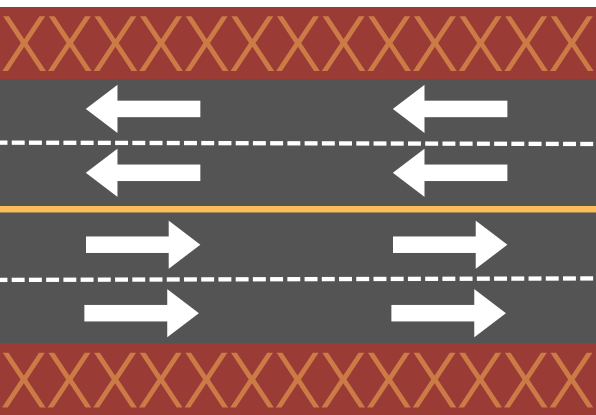
2 Travel Lanes in Each Direction w/ TWLT



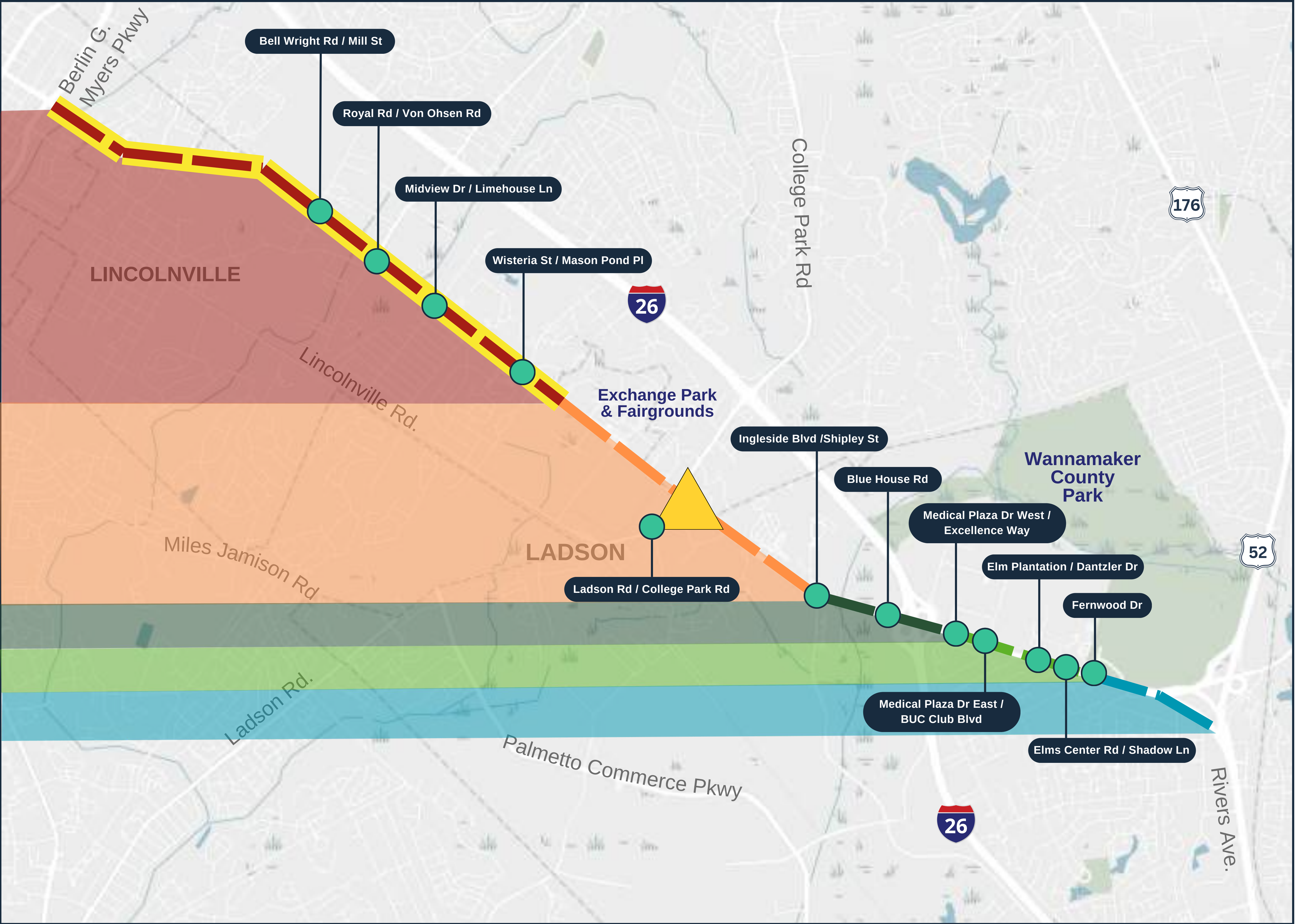
LCRT  
Bi-directional Reversible Lane



LCRT  
Center-Running BRT



LCRT  
Side-Running BRT








# Corridor Improvements


# ALTERNATIVE 3


**PROPOSED IMPROVEMENTS (\$\$\$)**


- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

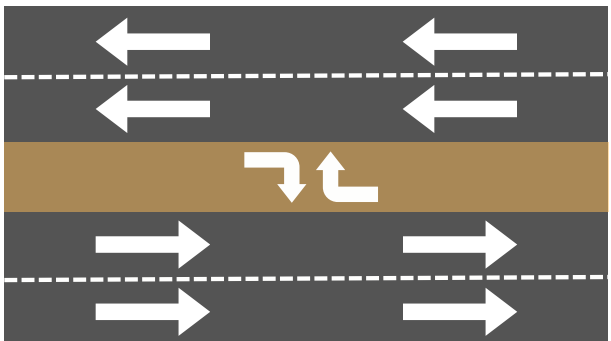
**LEGEND**

 Intersection Improvement

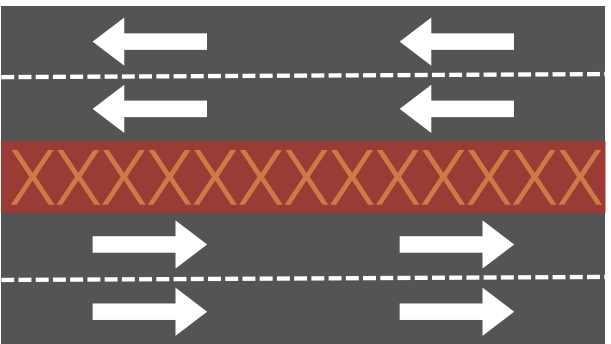
 College Park/Ladson Road Intersection

 Existing Roadway Typical Sections

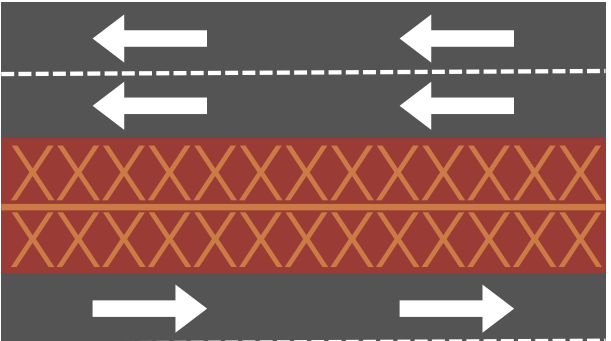
 Proposed Roadway Typical Sections



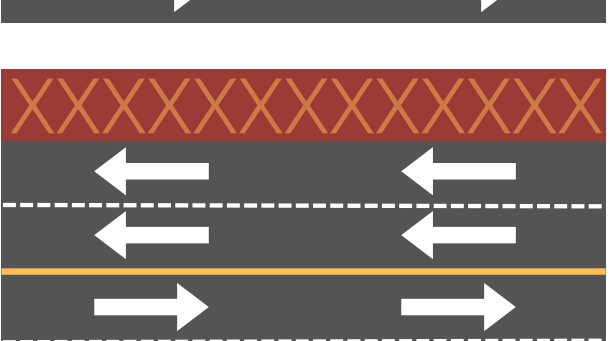
2 Travel Lanes  
in Each Direction  
w/ TWLT



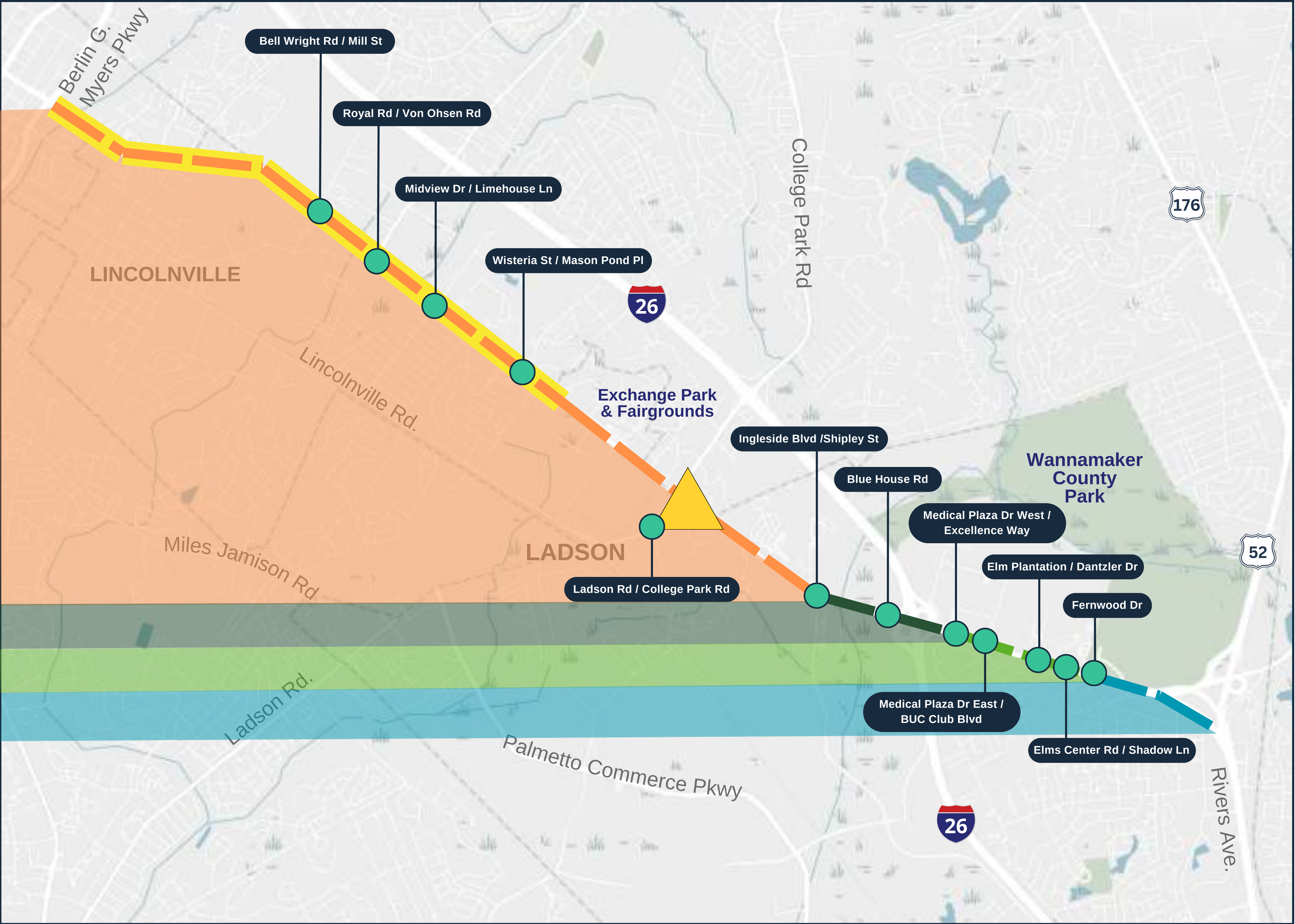
LCRT  
Bi-directional Reversible  
Lane



LCRT  
Center-Running  
BRT



LCRT  
Side-Running  
BRT







# Corridor Improvements

# ALTERNATIVE 4

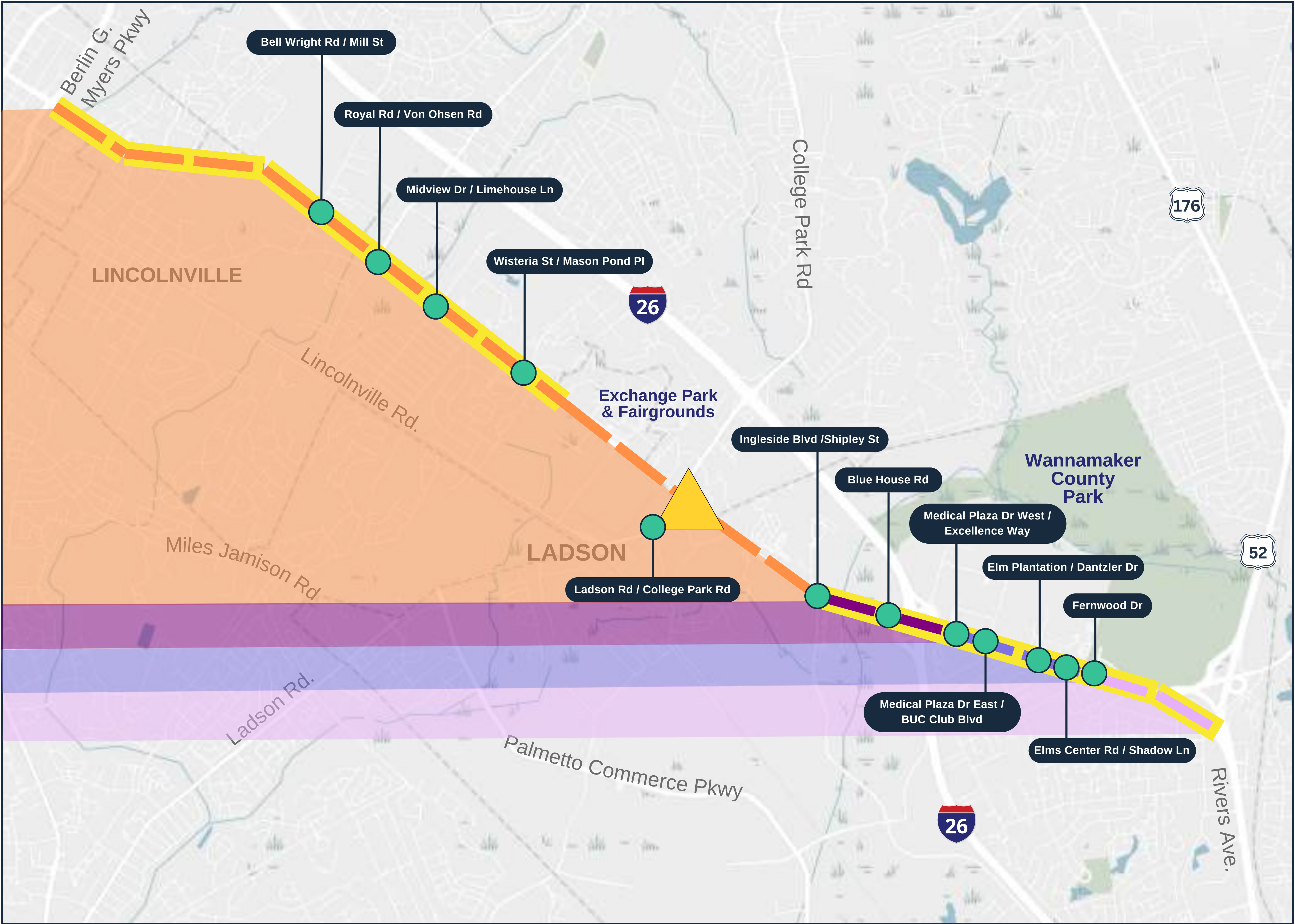
**PROPOSED IMPROVEMENTS (\$\$\$\$)**

- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 6 Lane Widening from I-26 to Rivers Ave
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

**LEGEND**

- Intersection Improvement
- College Park/Ladson Road Intersection
- Existing Roadway Typical Sections
- Proposed Roadway Typical Sections

	2 Travel Lanes in Each Direction w/ TWLT
	LCRT Bi-directional Reversible Lane w/ 3 Travel Lanes Each Direction
	LCRT Center-Running BRT w/ 3 Travel Lanes Each Direction
	LCRT Side-Running BRT w/ 3 Travel Lanes Each Direction





PROJECT DEVELOPMENT PROCESS

The Federal Environmental Process requires that a detailed analysis be prepared if any federal agency is undertaking a major federal action, which may be through federal funding or issuance of a federal permit such as a US Army Corps of Engineers Section 404 Wetlands Permit. The detailed analysis is used to assess how a major infrastructure improvement project will affect both the natural and human environments, and to ensure that the chosen alternative has the least practicable amount of environmental impact.



PROJECT SCHEDULE

Hwy 78 Corridor Improvements Timeline / Milestones



All dates are subject to change and will be updated as the project development progresses.  
\*The Low Country Rapid Transit (LCRT) project is currently under design. Construction start and project completion could change based on the LCRT project schedule and the alternative that is ultimately approved for the Charleston County's Hwy 78 project.

Project information can be found on the project website: [hwy78corridor.com](http://hwy78corridor.com)

Please use the comment form provided to submit a comment about the project. Comments can also be emailed to [info@hwy78corridor.com](mailto:info@hwy78corridor.com), or mailed to:

Charleston County  
ATTN: Peter Dondanville, P.E.  
4045 Bridge View Drive  
Public Works, Suite B-309  
North Charleston, SC 29405  
Project Hotline: (843) 420-3016

All comments are due by June 7, 2024.

If you would like to be notified of project updates and future public involvement activities, please visit the project website to join the project mailing list.

If you would prefer to receive future project Newsletters via email, please indicate where noted on the comment form provided.



Corridor Improvements



PUBLIC INFORMATION MEETING

HWY 78

CORRIDOR IMPROVEMENTS

Wednesday, May 8, 2024

5:00 - 7:00 PM

No Formal Presentation is Scheduled

WANNAMAKER PARK

CYPRESS HALL

8888 UNIVERSITY BLVD.

NORTH CHARLESTON, SC 29406

PURPOSE OF THIS PUBLIC INFORMATION MEETING

The purpose of the Public Information Meeting is to update the community on the project, present the results of traffic studies, introduce the preliminary alternatives, and gather input on the Preliminary Alternatives.

You are encouraged to review the various displays and discuss your questions or concerns with appropriate County staff or their representatives at this meeting. You are also encouraged to submit written comments on the forms provided, and place in the comment box provided. Comments will also be accepted by mail or email through June 7, 2024, contact information is provided on the back. Your attendance and feedback are very important components of the project development process.

OVERVIEW OF THE PROJECT

Charleston County, in cooperation with the South Carolina Department of Transportation (SCDOT), proposes to make improvements to Hwy 78 from Rivers Avenue (US 52) to Berlin G. Myers Parkway (SC 165). The purpose of this project is to accommodate projected increases in traffic volume by improving roadway capacity, efficiency of key intersections, and system continuity throughout the project limits.

This section of roadway serves as a principal arterial that has historically experienced an increase in traffic due to regional growth and currently sustains operations that exceed the capacity of the current roadway system which are projected to worsen over time.

Project Goals

The proposed project will accomplish the following objectives:



Improve capacity along Hwy 78 from Rivers Avenue (US 52) to Berlin G. Myers Parkway (SC 165),



Provide safe opportunities for bicyclists and pedestrians, and



Reduce congestion and increase capacity at key intersections along the project corridor.

Project Study Area





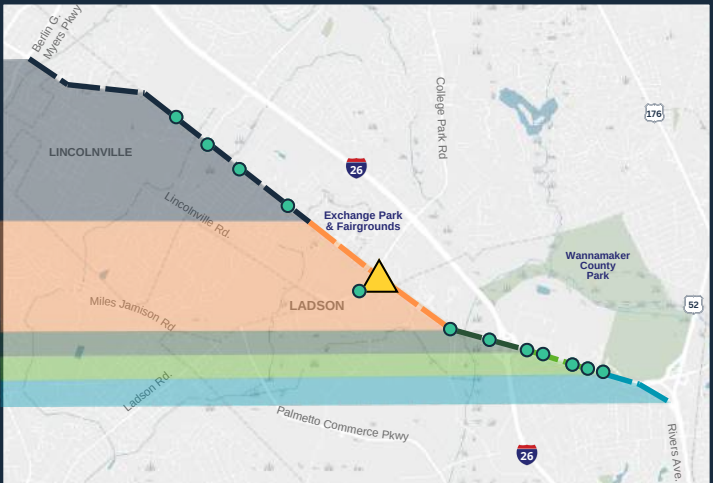
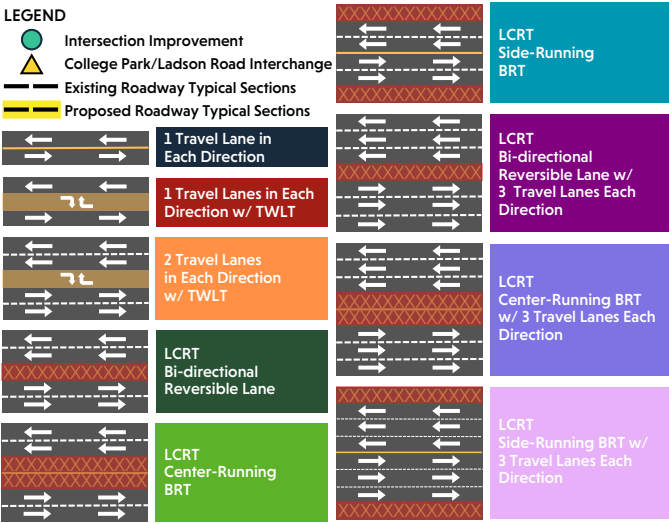
ALTERNATIVES ANALYSIS

A **Range of Alternatives** was developed using data from previous studies, traffic modeling and evaluation, environmental impacts, agency input, and community and stakeholder input. The **Range of Alternatives** were funneled through **Screening Level 1**, which evaluated each alternative based on the purpose and need and minimum design criteria.

Alternatives that passed Screening Level 1 are considered **Preliminary Alternatives**, shown as Alternatives 1 - 4 below. The **Preliminary Alternatives** will now be funneled through **Screening Level 2**, which will evaluate each alternative based on the following criteria:

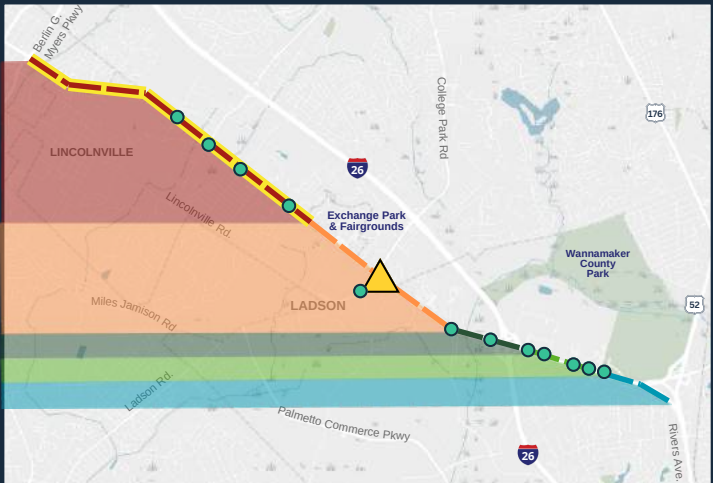
- Traffic Operations
- Constructability & Maintenance of Traffic
- Public & Stakeholder Input
- Cost

Alternatives that pass Screening Level 2 will be considered **Reasonable Alternatives**. Reasonable Alternatives will undergo additional design and analysis.



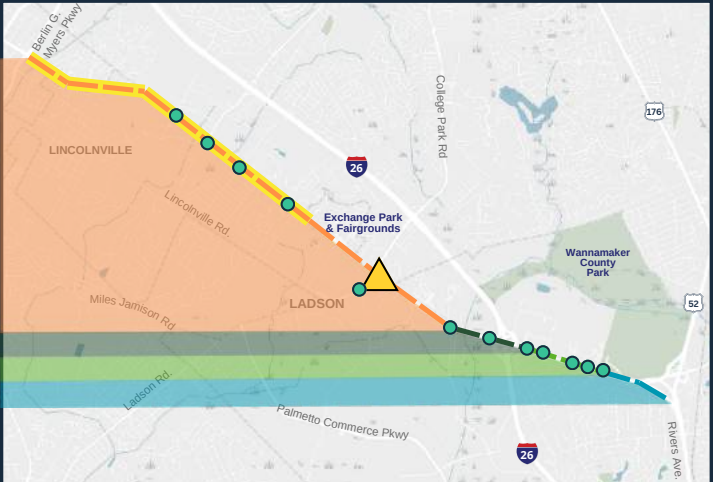
**ALTERNATIVE 1**

- Intersection Improvements
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor



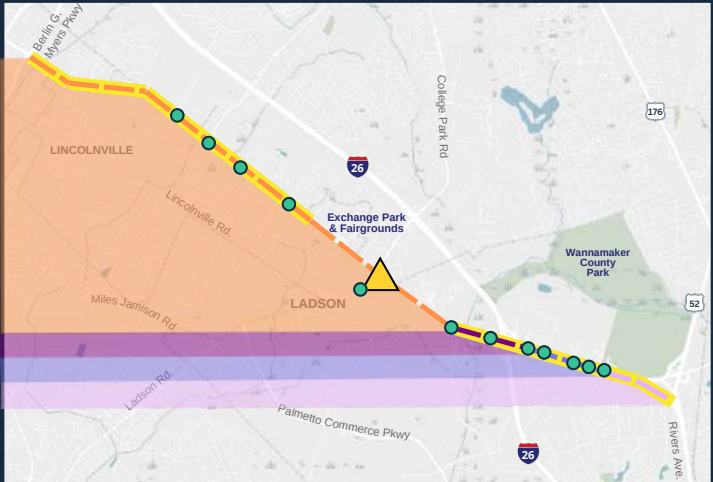
**ALTERNATIVE 2**

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**ALTERNATIVE 3**

- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor



**ALTERNATIVE 4**

- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 6 Lane Widening from I-26 to Rivers
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

COLLEGE PARK/LADSON ROAD

In 2019, after reviewing traffic studies for the Lowcountry Rapid Transit project, Charleston County identified that the 3 intersections at Hwy 78 at College Park Road, Hwy 78 at Ladson Road, and Ladson Road at College Park Road are key to traffic delays experienced in the corridor. The traffic study included four alternatives consisting of multiple configurations to help alleviate current congestion experienced at these intersections and a traffic analysis was performed to review each configuration. **Alternative 4 was selected as the Preferred Alternative for the Ladson/College Park Intersection and it will be evaluated in more detail as part of the Hwy 78 project design.**

Intersection Preferred Alternative

- Relocates the intersections of Hwy 78 at College Park Road and Ladson Road at College Park Road.
- Signalizes the intersection of Ladson Road at College Park Road.
- Reconfigures Hwy 78 at the intersection of Hwy 78 at Ladson Road.
- Ancrum Road approach becomes right-in/right-out.
- Widens College Park Road to a 5-lane section between Hwy 78 and Ladson Road.
- Turning movements reduced at intersections. Extension of College Park Road reduces forced left and right turn movements on US 78.



TRAFFIC ANALYSIS

The Project Team completed a Traffic Study that analyzed the existing and future conditions for the no-build and the build alternatives. This study looked at Level of Service at intersections along the corridor and segments of Hwy 78. The project team then uses this data to determine how an alternative meets the purpose and need of the project.

Years Analyzed:  
2029, 2039 & 2049

Incorporated Projects:

- Lowcountry Rapid Transit 30% Design
- Berlin G. Myers Pkwy Extension

Traffic Volumes:

- Approximately 48,000 daily vehicles south of College Park Road/Ladson Road area

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PUBLIC INFORMATION MEETING  
MAY 8, 2024



**LEGEND**

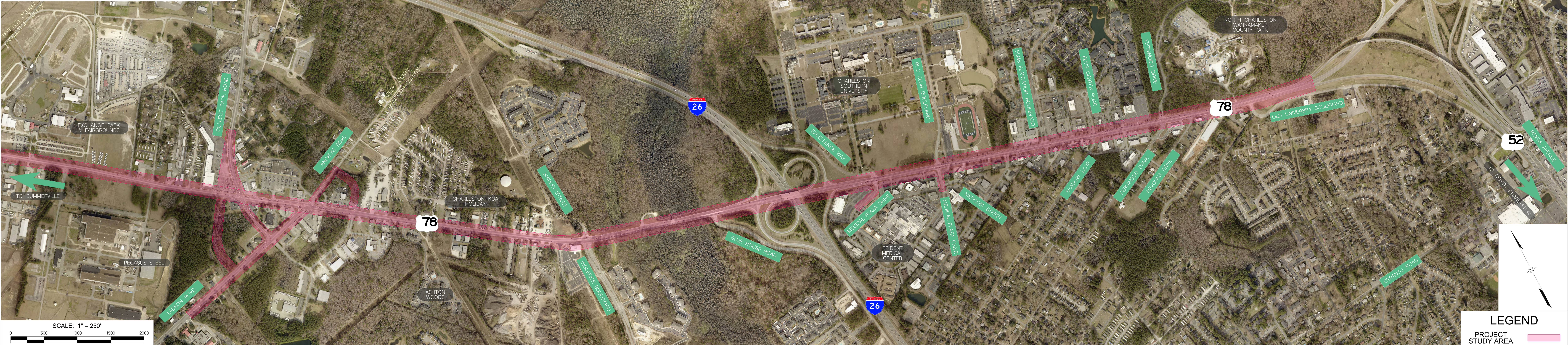
PROJECT STUDY AREA







PUBLIC INFORMATION MEETING  
MAY 8, 2024

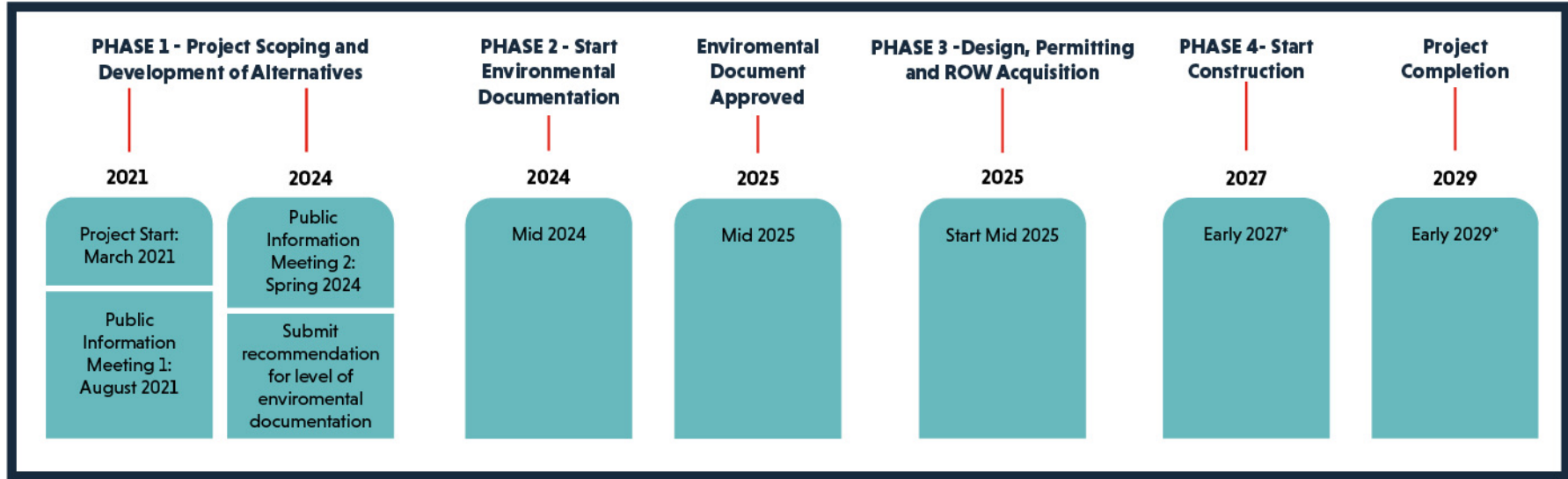


**LEGEND**

PROJECT STUDY AREA



# Hwy 78 Corridor Improvements Timeline / Milestones



*All dates are subject to change and will be updated as the project development progresses.*

*\*The Low Country Rapid Transit (LCRT) project is currently under design. Construction start and project completion could change based on the LCRT project schedule and the alternative that is ultimately approved for the Charleston County's Hwy 78 project.*





# Corridor Improvements

## LEGEND

Intersection Improvement

College Park/Ladson Road Intersection

Existing Roadway Typical Sections

Proposed Roadway Typical Sections

1 Travel Lane in Each Direction

1 Travel Lanes in Each Direction w/ TWLT

2 Travel Lanes in Each Direction w/ TWLT

LCRT Bi-directional Reversible Lane

LCRT Center-Running BRT

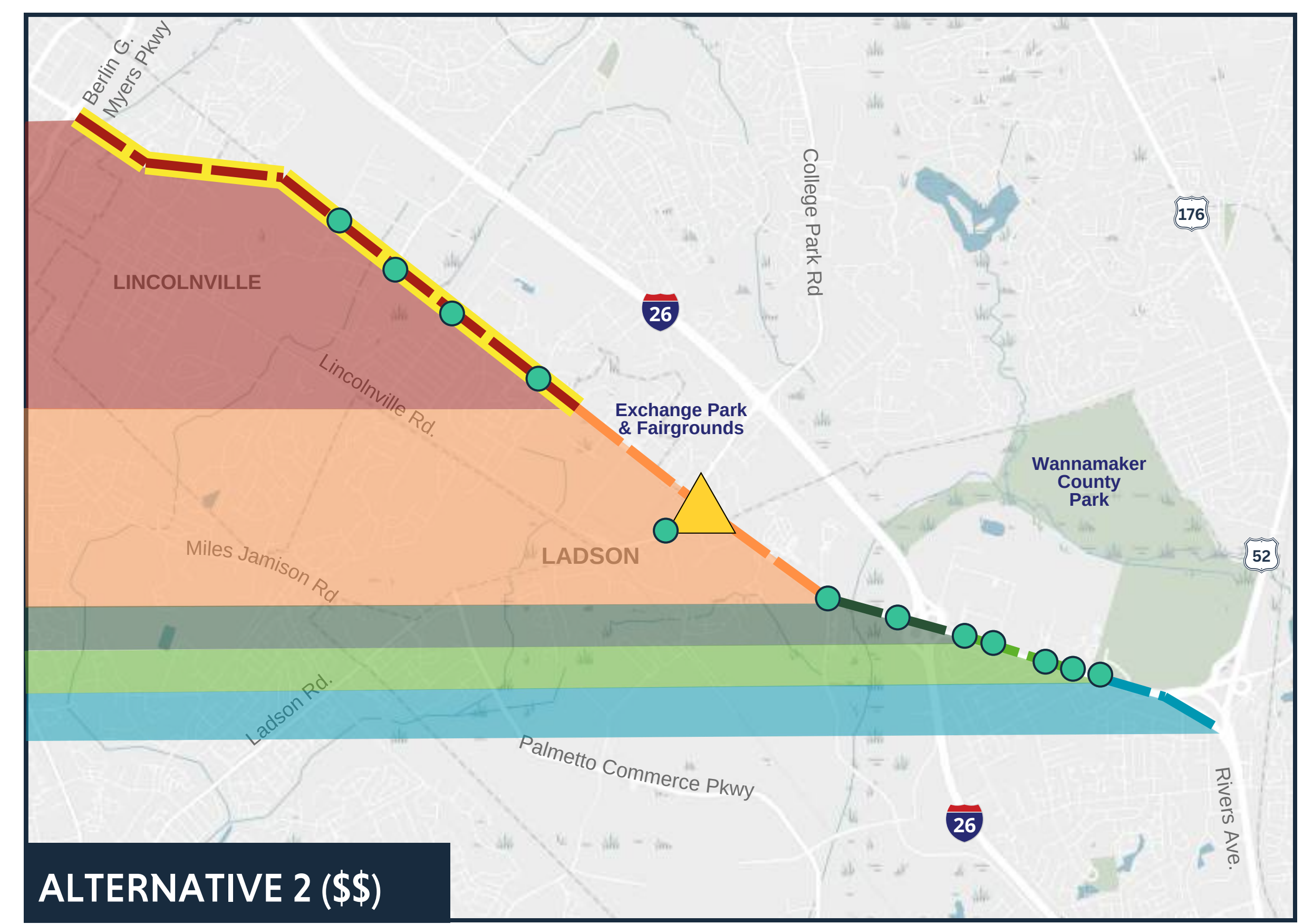
LCRT Side-Running BRT

LCRT Bi-directional Reversible Lane w/ 3 Travel Lanes Each Direction

LCRT Center-Running BRT w/ 3 Travel Lanes Each Direction

LCRT Side-Running BRT w/ 3 Travel Lanes Each Direction

# ALTERNATIVES 1-4



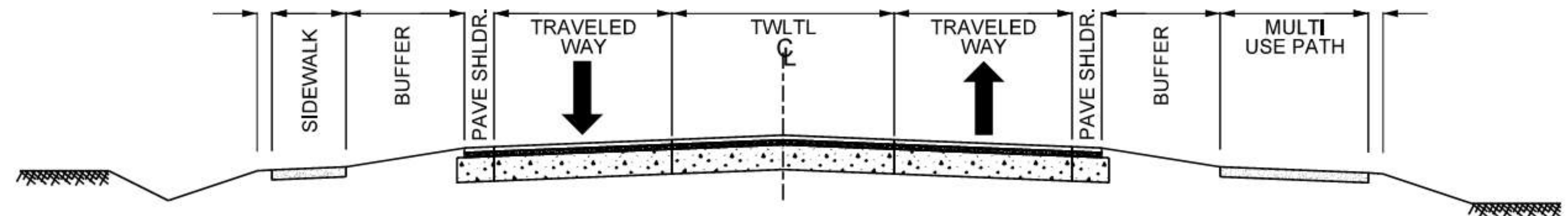


# TYPICAL SECTION

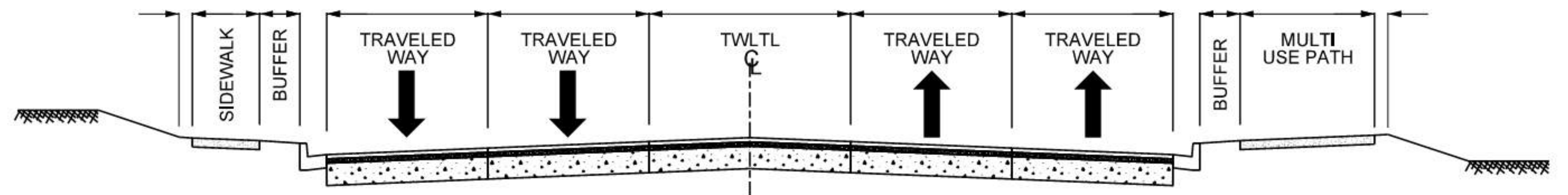
Over the course of five years, a total of 171 rear-end crashes took place within the existing two-lane section of Highway 78. These rear-end collisions accounted for 53.4% of all crashes occurring in that same section.

The proposed addition of a two-way center turn lane (TWLT) will effectively eliminate vehicles waiting to make left turns from the travel lanes. By removing left-turning vehicles from these lanes, the number of stopped vehicles waiting to turn is reduced, ultimately enhancing safety, and minimizing the likelihood of rear-end crashes.

## 1 Travel Lane in Each Direction w/ TWLT



## 2 Travel Lanes in Each Direction w/ TWLT







# Corridor Improvements

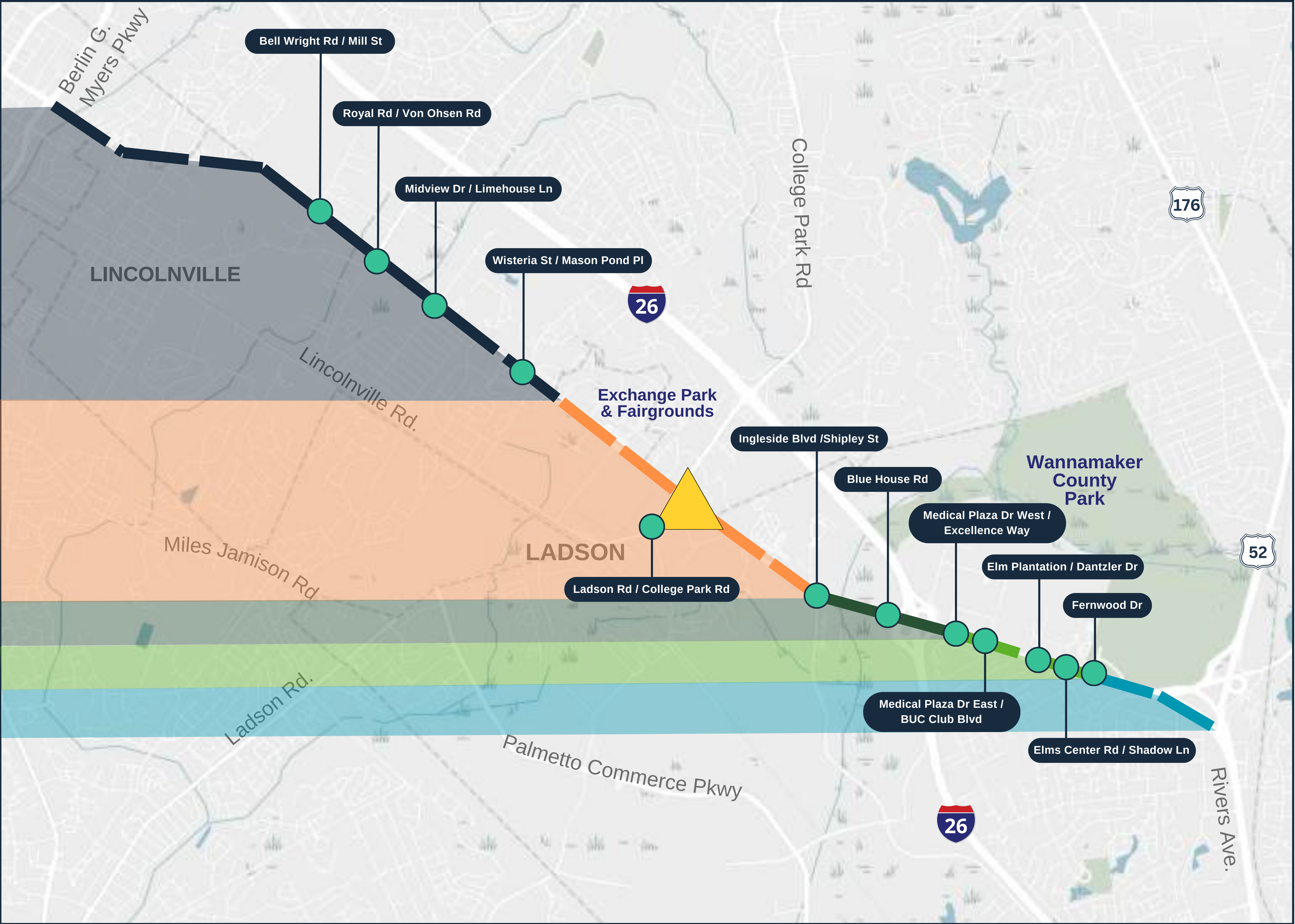
# ALTERNATIVE 1

- PROPOSED IMPROVEMENTS (\$)**
- Intersection Improvements
  - 10' Multi-Use Path and 5' Sidewalk throughout Corridor

**LEGEND**

- Intersection Improvement
- College Park/Ladson Road Intersection
- Existing Roadway Typical Sections

	1 Travel Lane in Each Direction
	2 Travel Lanes in Each Direction w/ TWLT
	LCRT Bi-directional Reversible Lane
	LCRT Center-Running BRT
	LCRT Side-Running BRT








# Corridor Improvements


# ALTERNATIVE 2


**PROPOSED IMPROVEMENTS (\$\$)**


- Intersection Improvements (same as Alt 1)
- 3 Lane Widening from Berlin G Myers to Fairground
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

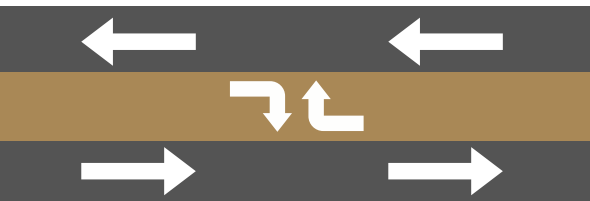
**LEGEND**

 Intersection Improvement

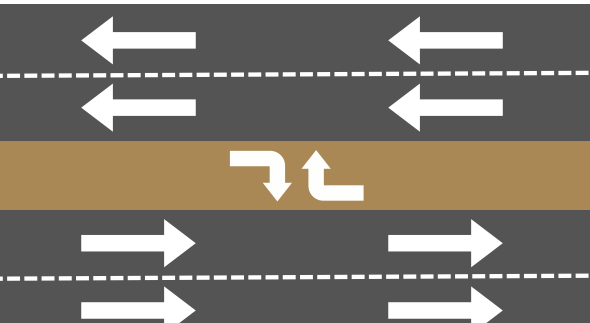
 College Park/Ladson Road Intersection

 Existing Roadway Typical Sections

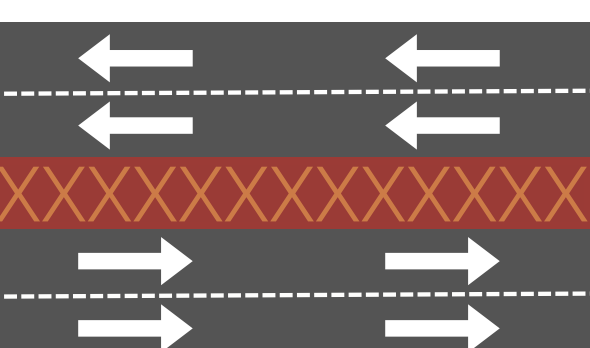
 Proposed Roadway Typical Sections



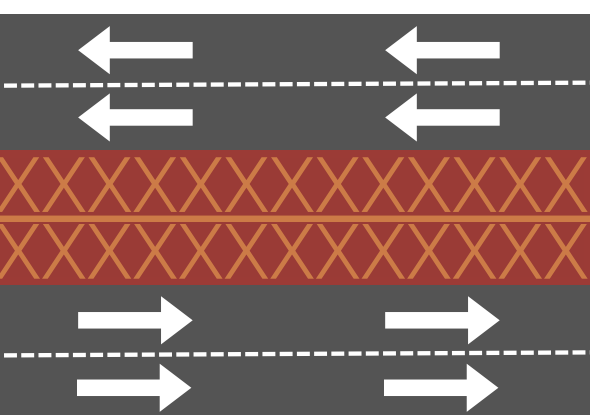
1 Travel Lanes in Each Direction w/ TWLT



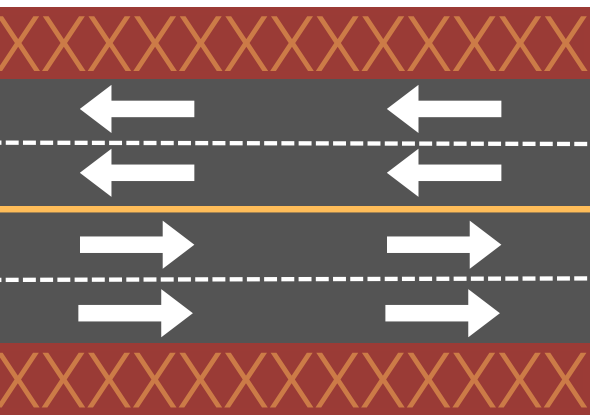
2 Travel Lanes in Each Direction w/ TWLT



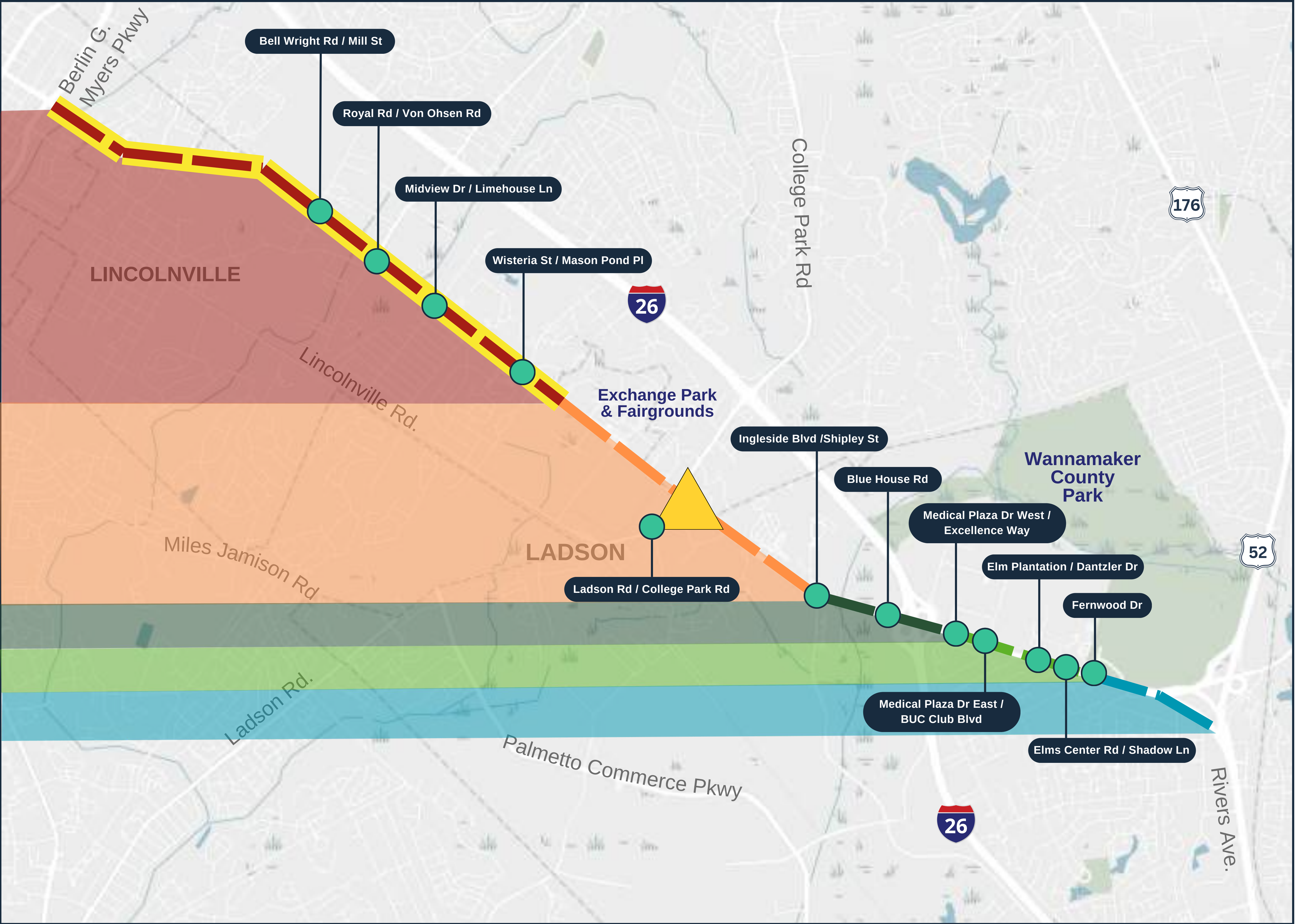
LCRT  
Bi-directional Reversible Lane



LCRT  
Center-Running BRT



LCRT  
Side-Running BRT








# Corridor Improvements


# ALTERNATIVE 3


**PROPOSED IMPROVEMENTS (\$\$\$)**


- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

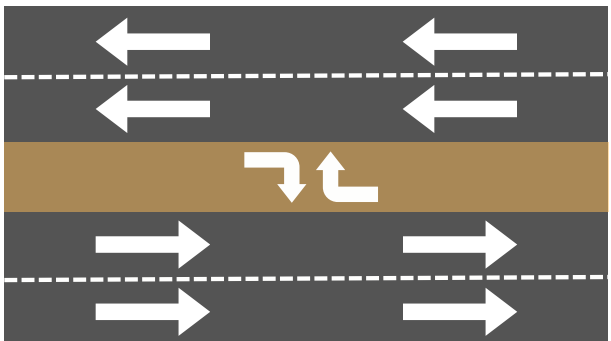
**LEGEND**

 Intersection Improvement

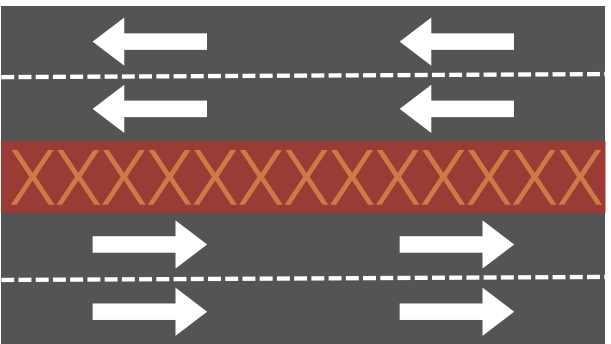
 College Park/Ladson Road Intersection

 Existing Roadway Typical Sections

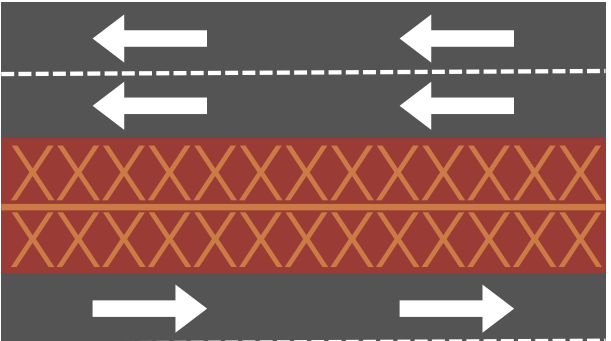
 Proposed Roadway Typical Sections



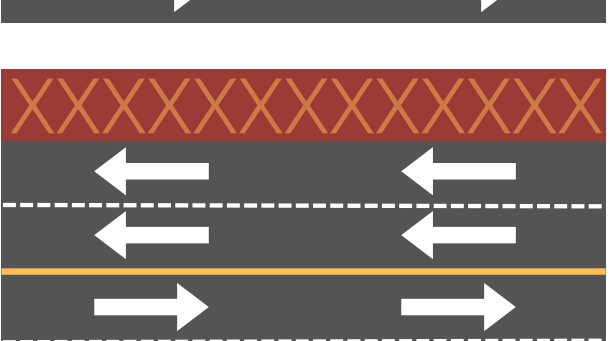
2 Travel Lanes in Each Direction w/ TWLT



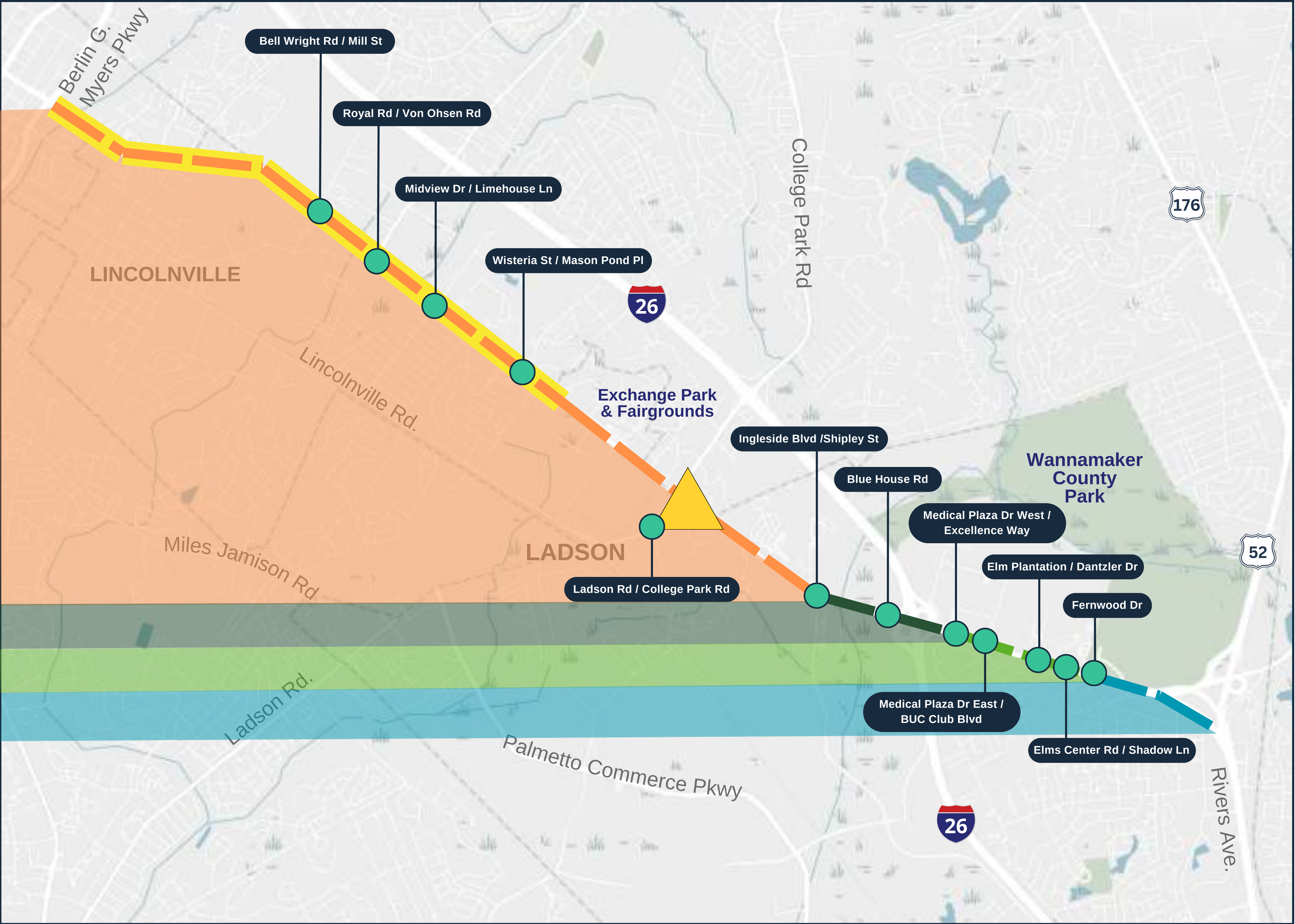
LCRT Bi-directional Reversible Lane



LCRT Center-Running BRT



LCRT Side-Running BRT







# Corridor Improvements

# ALTERNATIVE 4

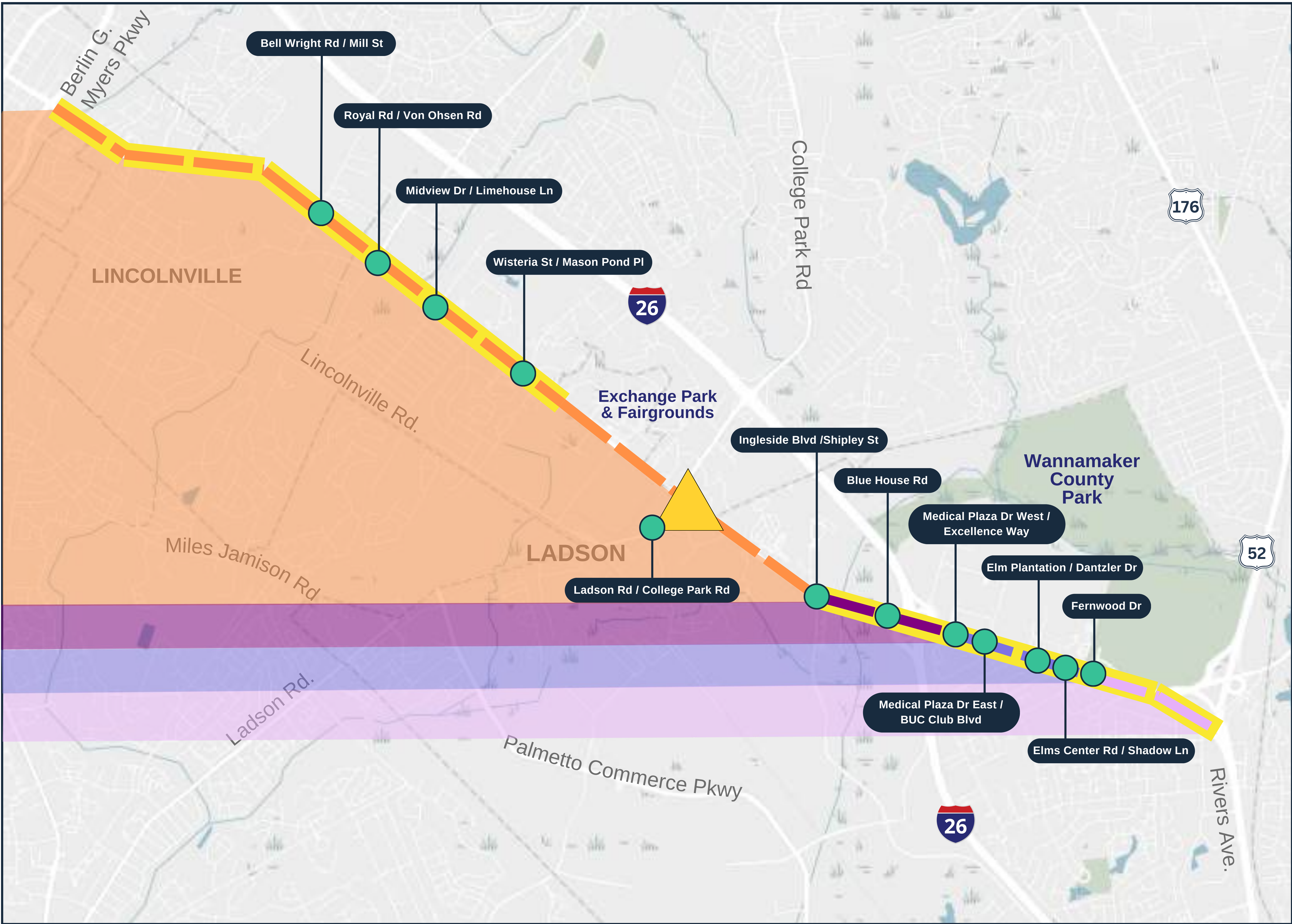
**PROPOSED IMPROVEMENTS (\$\$\$\$)**

- Intersection Improvements
- 5 Lane Widening from Berlin G Myers to Fairground
- 6 Lane Widening from I-26 to Rivers Ave
- 10' Multi-Use Path and 5' Sidewalk throughout Corridor

**LEGEND**

- Intersection Improvement
- College Park/Ladson Road Intersection
- Existing Roadway Typical Sections
- Proposed Roadway Typical Sections

	2 Travel Lanes in Each Direction w/ TWLT
	LCRT Bi-directional Reversible Lane w/ 3 Travel Lanes Each Direction
	LCRT Center-Running BRT w/ 3 Travel Lanes Each Direction
	LCRT Side-Running BRT w/ 3 Travel Lanes Each Direction







# Corridor Improvements

# College Park/Ladson Road

### LEGEND

- Proposed Roadway
- Proposed Sidewalk
- Proposed Concrete Median
- Proposed Signal Locations

### Intersection Preferred Alternative

- Relocates the intersections of Hwy 78 at College Park Road and Ladson Road at College Park Road.
- Signalizes the intersection of Ladson Road at College Park Road.
- Reconfigures Hwy 78 at the intersection of Hwy 78 at Ladson Road.
- Ancrum Road approach becomes right-in/right-out.
- Widens College Park Road to a 5-lane section between Hwy 78 and Ladson Road.
- Turning movements reduced at intersections. Extension of College Park Road reduces forced left and right turn movements on US 78.

\*The College Park/Ladson Road Intersection Preferred Alternative is included in all Hwy 78 Corridor Improvement Alternatives.

