# DUKE STREET

## **Community Outreach Presentation**

Public Meeting October 20, 2022

## alexandriava.gov/DukeInMotion

This project is funded with Northern Virginia Transportation Authority (NVTA) regional revenues.



# Welcome!





Questions followed by open house

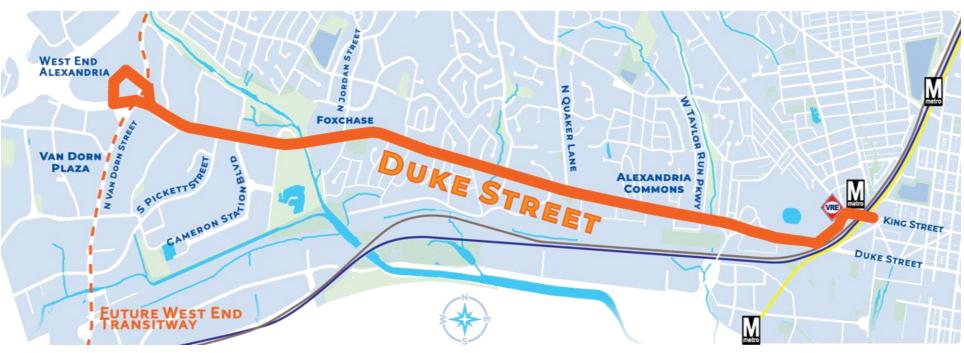


# **Project Overview**



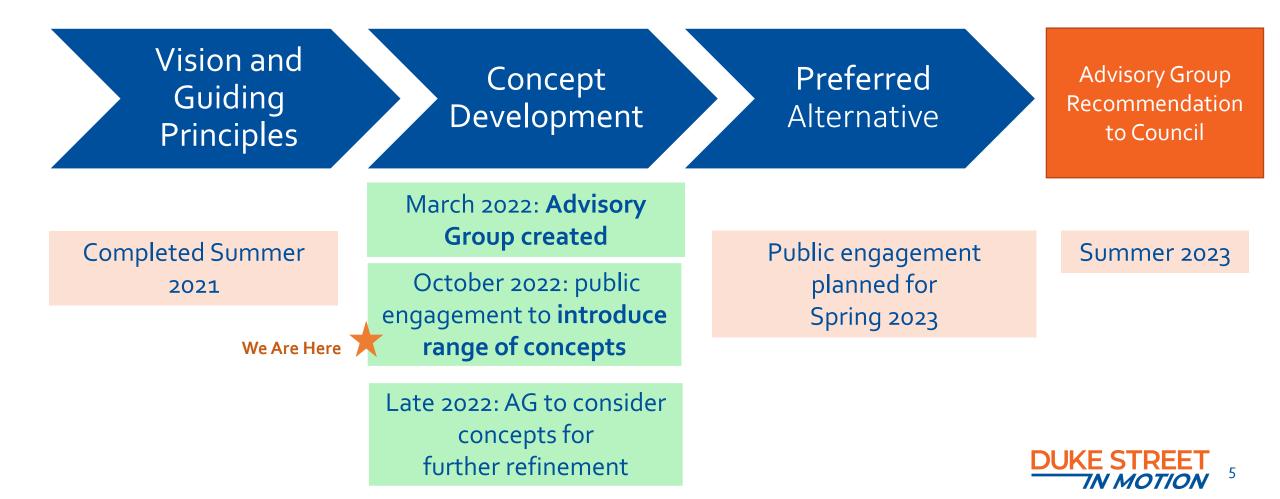
# What is "Duke Street In Motion"?

**Duke Street IN MOTION** is a project focused on ensuring that **transit improvements** in the Duke Street corridor, from Landmark Mall to the King Street Metro Station, provide <u>efficient transportation</u> options that align with all <u>users' needs, wants, and expectations</u>.



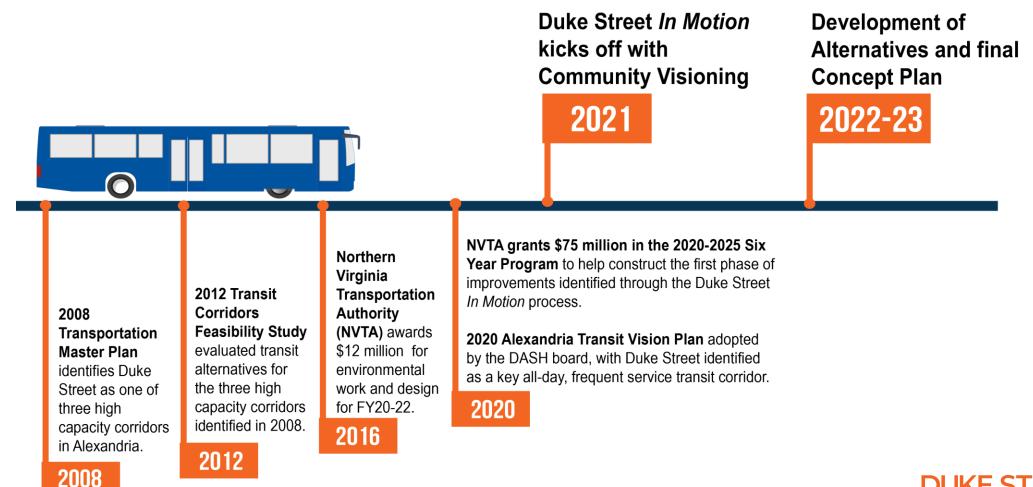


## **Duke Street in Motion Process**



## **Project Purpose & Background**

- Pursue high-capacity transit to achieve City sustainability and equity goals
- Reconsider concept plans in context of 2021 community visioning





# What is Bus Rapid Transit (BRT)?

## Buses that run more like trains











## What do you see in Duke Street's future?

How do you want to get around?

## Phase 1 Community Engagement (June 21-July 31, 2021)



**1,785** feedback form responses



3,587 project handouts



6,393 received eNews blast



**95,889** reached on social media



22 community pop-up events
(2,552 people reached)



92 webinar attendees DUKE STREET

# **Community Input in Phase 1**

88% Want to see reduced traffic



47%

Would ride or would consider riding the bus more often with improvements A

55%

Want to see improved safety

A full summary is available at alexandriava.gov/DukeInMotion



# **Project Vision**

This project will provide an **efficient and desirable bus rapid transit (BRT) option** along Duke Street **by improving the transit experience** for current and potential riders.

With multimodal enhancements to the corridor, Duke Street will become a safe, efficient, and desirable community connector for people riding the bus, walking, biking, and driving.



## **Project Guiding Principles**

	Convenient	Make bus travel more predictable, frequent, and comfortable
Ŏ	Efficient	Improve mobility for all Duke Street travelers
	Equitable	Use enhanced bus transit to support equitable access for a diversity of people and places
	Safe	Ensure safety and accessibility for those connecting to and riding the bus, as well as other travelers
	Vibrant	Create and enhance thriving and future corridor destinations that improve resident quality of life and boost the local economy
	Sustainable	Contribute positively to the environment, now and in the future



## **Duke Street Projects**

WEST TAYLOR RUN INTERSECTION IMPROVEMENT ADAPTIVE TRAFFIC SIGNAL CONTROL DUKE STREET TRAFFIC MITIGATION PILOT







To learn more about all the ways the City is working to make Duke Street work better, please visit alexandriava.gov/transportation-planning/duke-street-projects.



# Why Bus Rapid Transit on Duke Street?



## Why BRT on Duke Street?

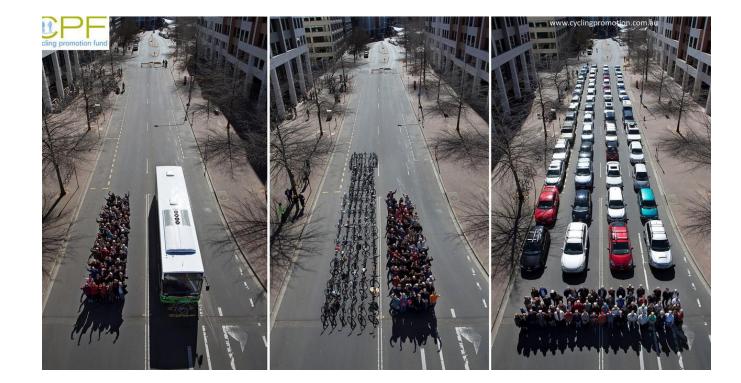
## Greenhouse gas emissions

## Air quality

Equity

Choices

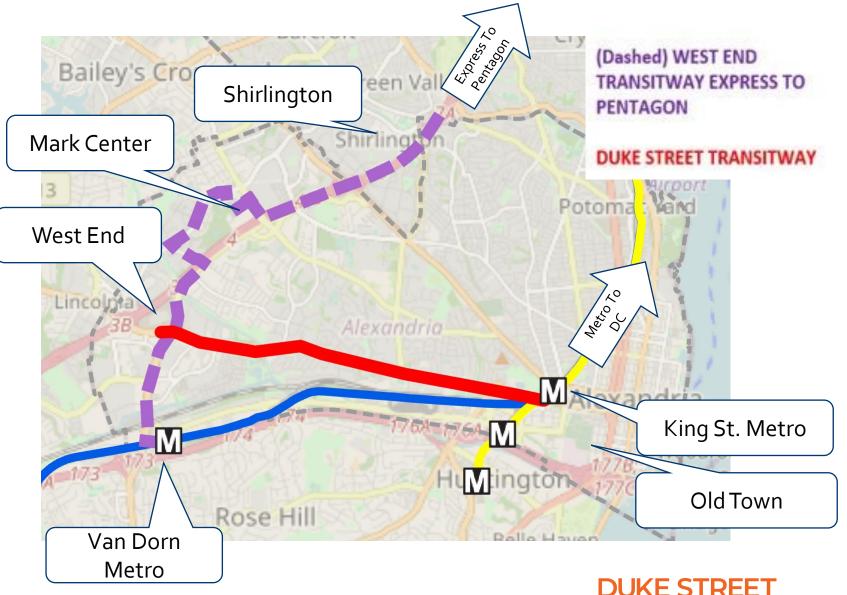
Congestion management





# **Factors for Success**

- High frequency transit connections to major activity centers
- Core base ridership: ~3000/day
- Competitiveness with driving



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7N MOTION

# **Placemaking and Livability**





```
Route 1 Before
```

Route 1 After



# Segment 1 Overview & Existing Conditions

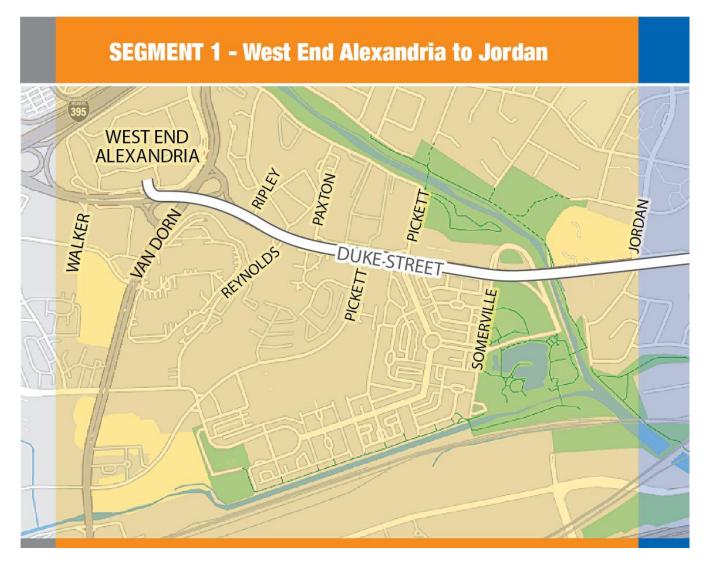


# **Corridor Segments**





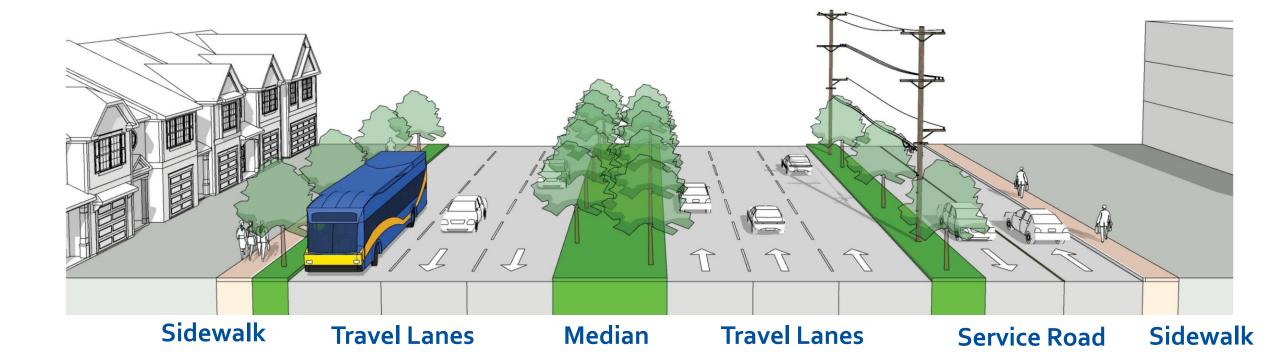
## Segment 1: West End Alexandria to Jordan Street







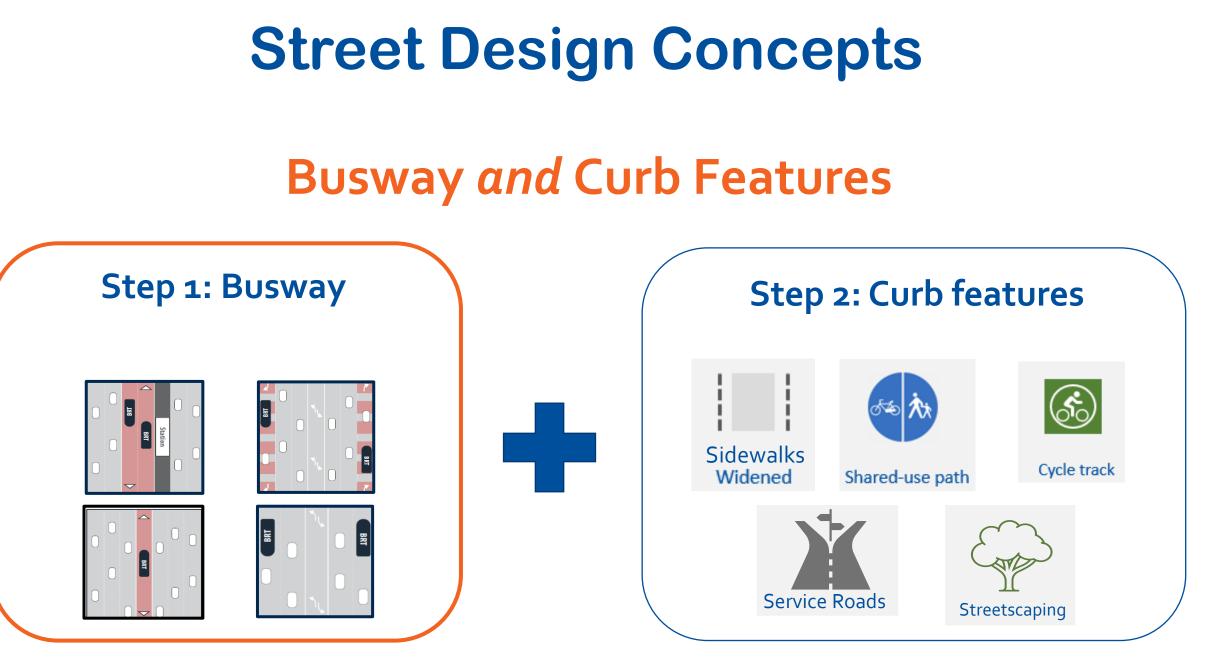
## Segment 1: West End Alexandria to Jordan Street





# Segment 1 Concepts

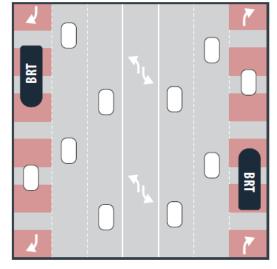






## Bus Improvements Can Take Different Forms

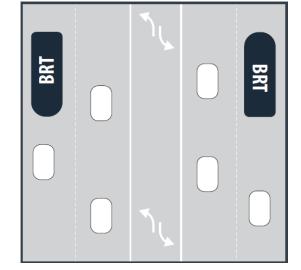
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**Center Running** 

**Curb Running** 

**Bidirectional Lane** 



**Mixed Traffic** 

## A BRT can mix different treatments to make bus service faster and more reliable



# **Concept Summary**



### Segment 1

- Center running
- Curb running
- Mixed traffic

### Segment 2A

- Center running
- Hybrid
- Mixed traffic

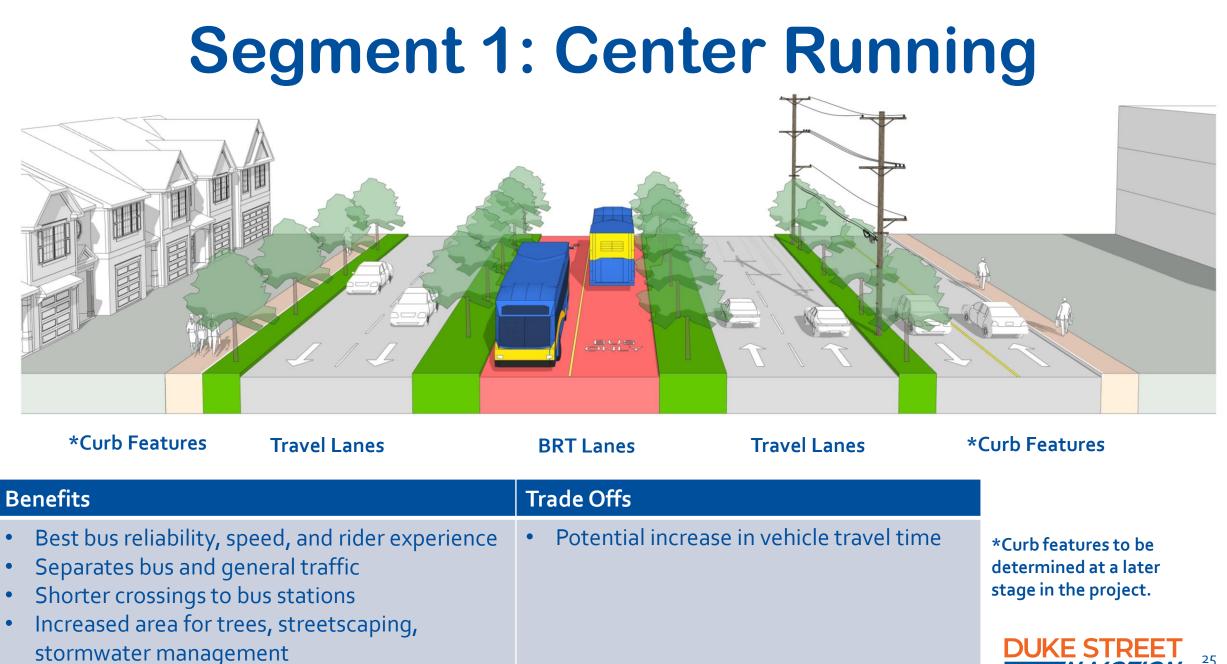
### Segment 2B

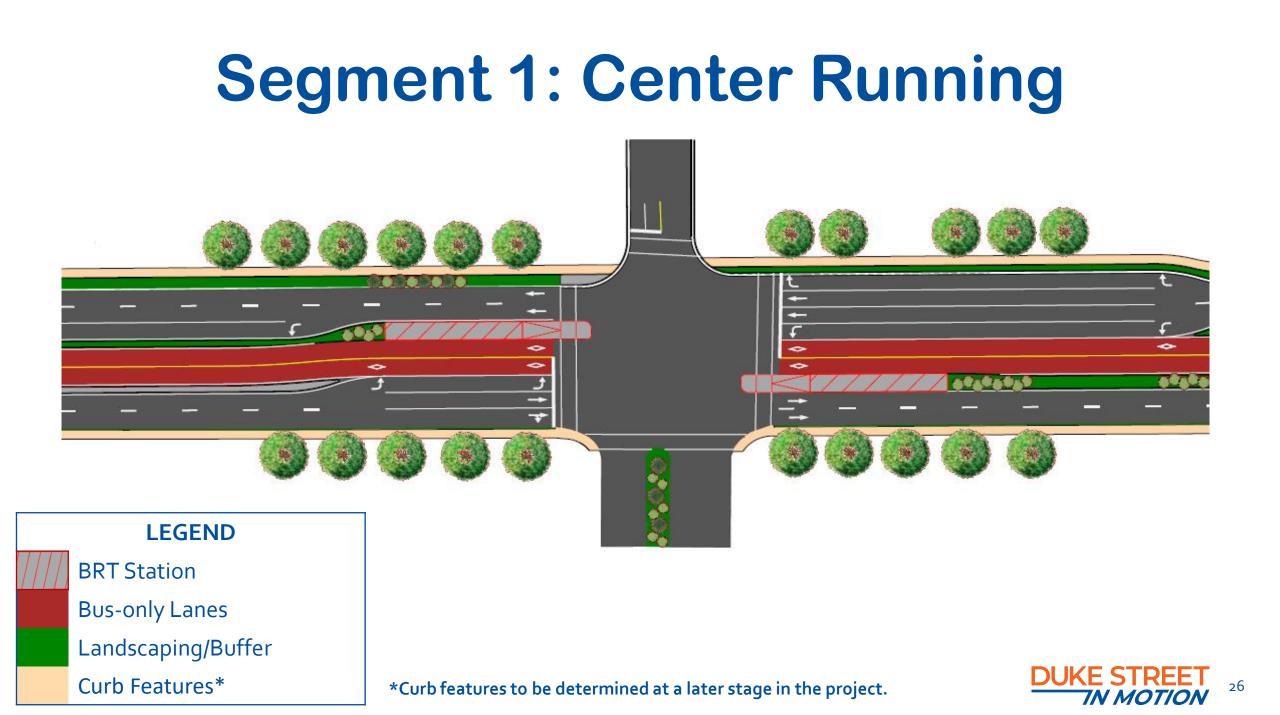
- Center running
- Bidirectional
- Mixed traffic

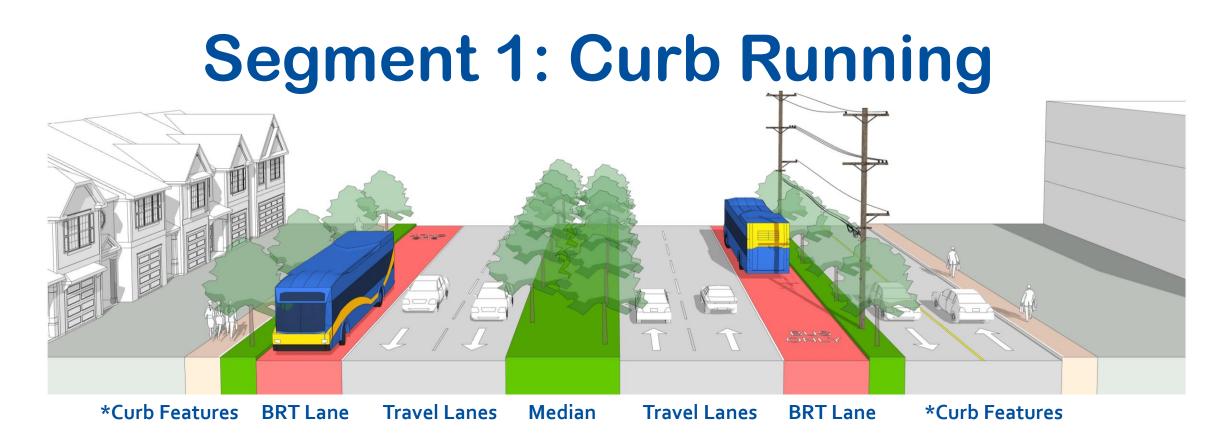
## Segment 3

- Center running
- Curb running
- Mixed traffic



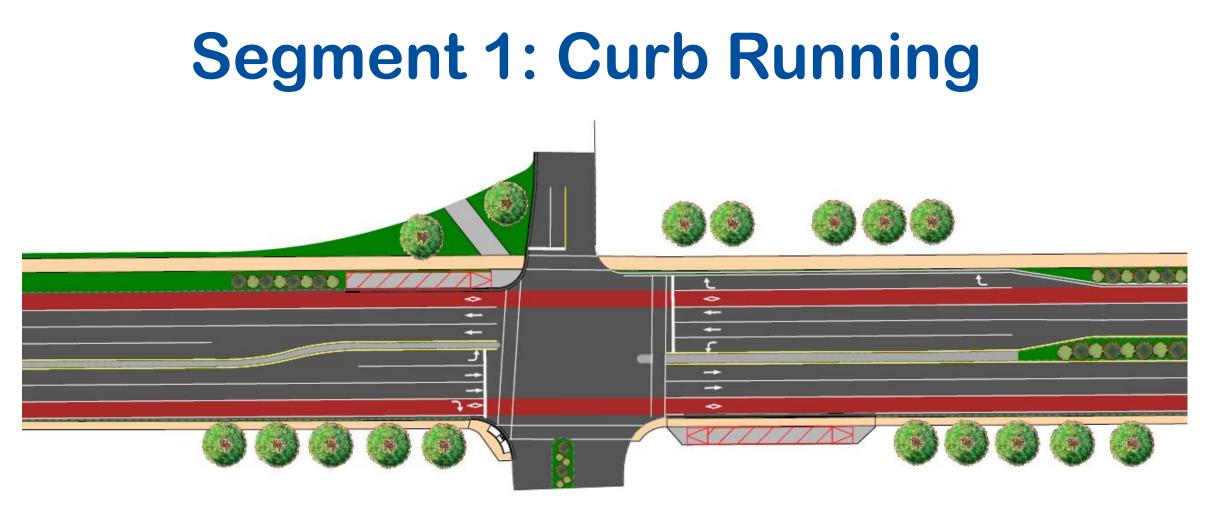






Benefits	Trade Offs	
<ul> <li>Improved bus reliability, speed, and rider experience</li> <li>Maintains median and tree canopy</li> <li>Separates bus from most vehicle traffic</li> </ul>	<ul> <li>Potential increase in vehicle travel time</li> <li>Right-turning vehicles use bus lanes, which reduces bus reliability</li> </ul>	*Curb features to be determined at a later stage in the project.



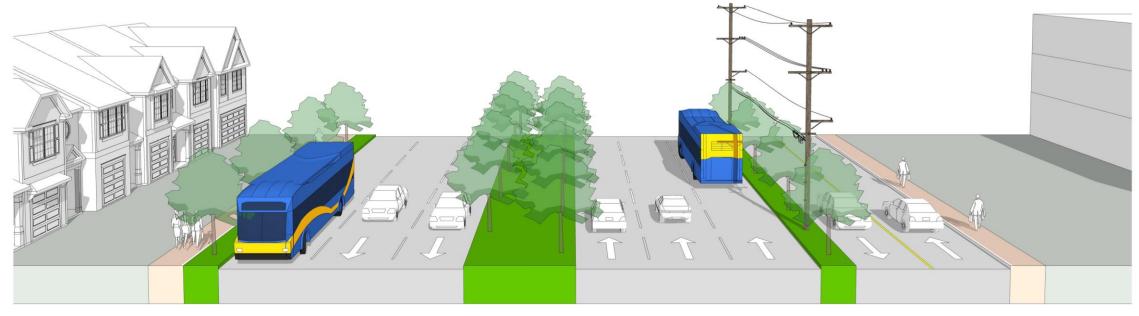




\*Curb features to be determined at a later stage in the project.



## **Segment 1: Mixed Traffic**



\*Curb Features

**Travel Lanes** 

Median

**Travel Lanes** 

\*Curb Features

res to be at a later project.



# **Segment 1: Mixed Traffic**





Curb Features\*

# **Concept Summary**



### Segment 1

- Center running
- Curb running
- Mixed traffic

### Segment 2A

- Center running
- Hybrid
- Mixed traffic

## Segment 2B

- Center running
- Bidirectional
- Mixed traffic

## Segment 3

- Center running
- Curb running
- Mixed traffic



# **Next Steps**



# **Upcoming Events**







## Webinar

• Oct 1

• Project website

## **Pop-up Events**

Throughout October7-10 events

#### In-Person Meeting Dates/Locations

October 12	Segment 3 Meeting (a) Bishop Ireton School	6:30-8:30 PM	
October 17	Segment 2 Meeting @ Bishop Ireton School	6:30-8:30 PM	
October 20	<b>Segment 1 Meeting</b> @ Patrick Henry Rec Center	6:30-8:30 PM	
October 26	<b>Open House</b> @ Patrick Henry Rec Center	5:30-8:30 PM	

## **Focus Groups**

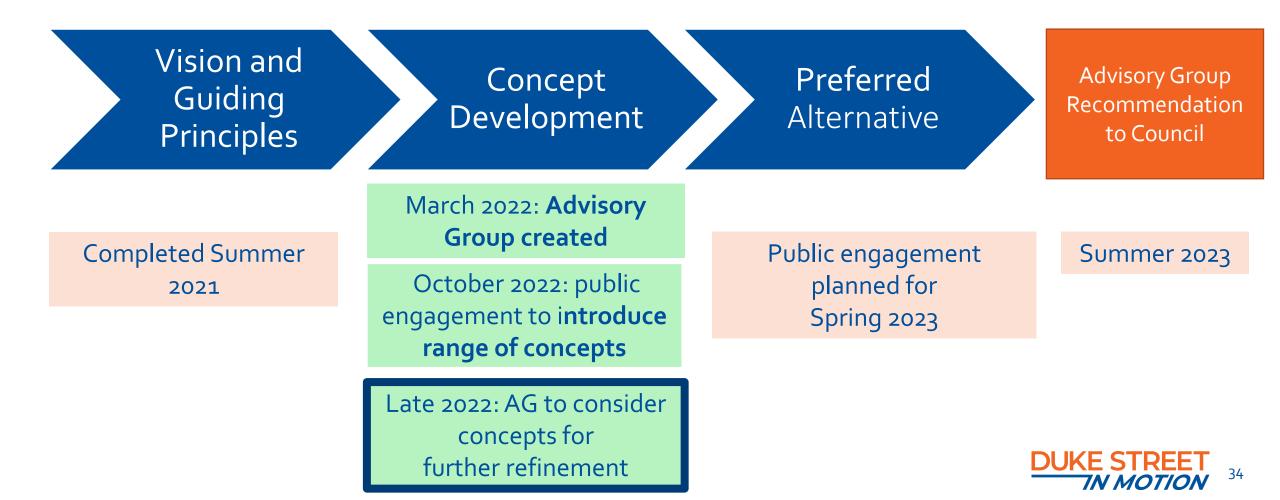
- 4+ events to target underrepresented groups
  - Renters
  - Transit riders
  - Youth
  - Spanish speakers
  - Businesses

## **In-Person Meetings**

- Throughout October
- 4 in-person events
- Segment focused
- Open house for entire corridor
- Build your own Duke Street



## **Duke Street in Motion Process**



# Thank you!

→ Visit boards
→ Speak with Project Team
→ Complete feedback form



## alexandriava.gov/DukeInMotion



## Q&A

- One question per attendee
- The project team will be available afterwards for additional questions
- FAQs will be posted on the website
- Please provide comments using the feedback form

