

Meeting Agenda

7:00 PM to 8:00 PM

7:00PM Presentation

7:25 PM Q&A Session

7:50 PM Comments



www.Alexandriava.gov/go/2399

Question & Answers

- **Submit Questions and Comments at**



<https://forms.office.com/g/7uBZLykqDV>

- **Comments will be at 7:50 pm or earlier if questions are done**
- **If not all questions are answered by end of meeting, staff will post responses online**
- **If you would like to instead contact the project manager directly or have more questions or comments please email -daniel.scolese@alexandriava.gov**



Duke Street at West Taylor Run/Telegraph

Community Update

April 17, 2023



Meeting Agenda

▶ **01.**

Project Roadmap

How we got here
and where we are
going

▶ **02.**

Duke at West Taylor Run

Intersection
Concepts

▶ **03.**

Telegraph Road Ramp

Ramp concept
options

▶ **04.**

Duke Street Transitway

Bus Rapid Transit
Impacts and
Coordination

▶ **05.**

Focus Areas

Changes from
previous concepts
and clarification

▶ **06.**

Next Steps and Q&A

Timing

Project Area



Duke at West Taylor Run Intersection

Project Goals

The project purpose is focused on enhancing safety and access for people who walk, drive, bike and take transit.



Improve safety for all
people at the
intersections



Reduce cut-through
traffic on
neighborhood
streets



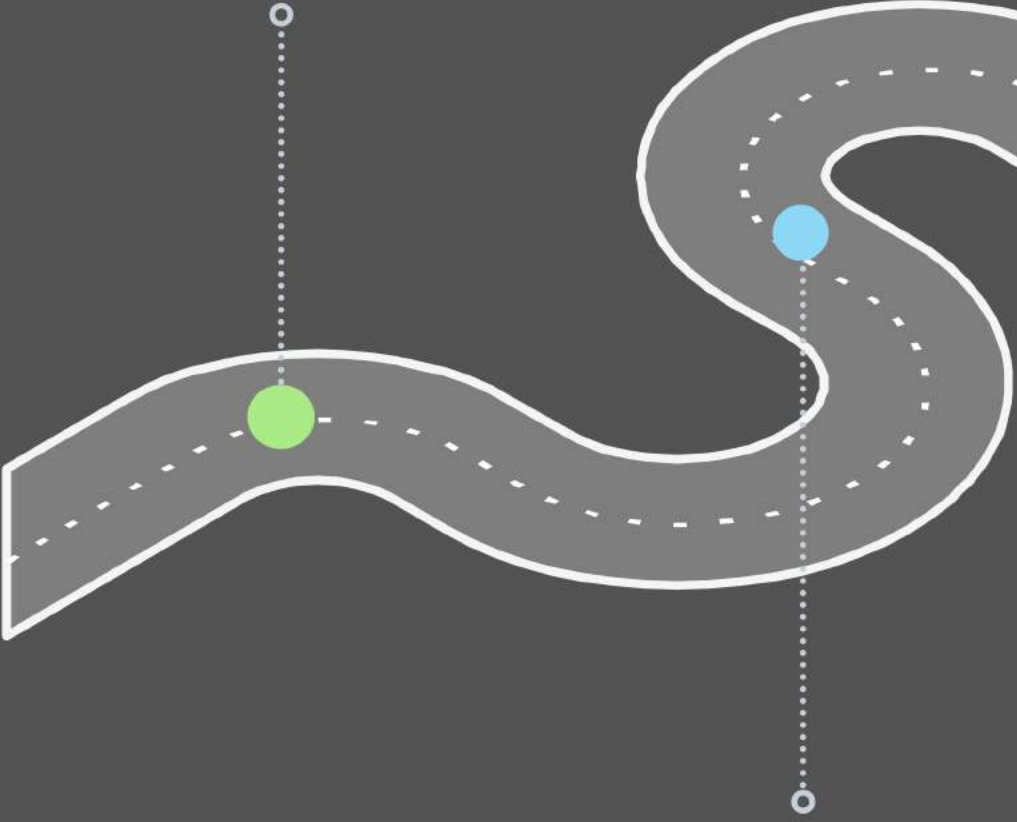
Reduce
congestion on
Duke Street



Improve the
quality of life for
residents

Central Alexandria Traffic Study 2017

Recommendations to reduce cut-through traffic on local streets and advance capital projects



Intersection Project Funding

Developed concepts based on community feedback about issues to apply for project funding.

Traffic Mitigation Pilots 2022

Change signals to shift cut-through traffic off neighborhood streets and restrict access to Telegraph from WTR

Duke Street Transitway

- Full corridor redesign of Duke Street to provide high capacity transit along the corridor
- Construct improvements at West Taylor Run

Duke Street Adaptive Traffic Control

- Smart signal project to reduce congestion on Duke Street

Duke & West Taylor Run Intersection & Access Ramp Design

- Discuss intersection and ramp concepts with the community and select final configurations
- Determine scope and coordination of intersection project and Duke BRT

Project Roadmap

Duke at West Taylor Run Intersection

Schedule

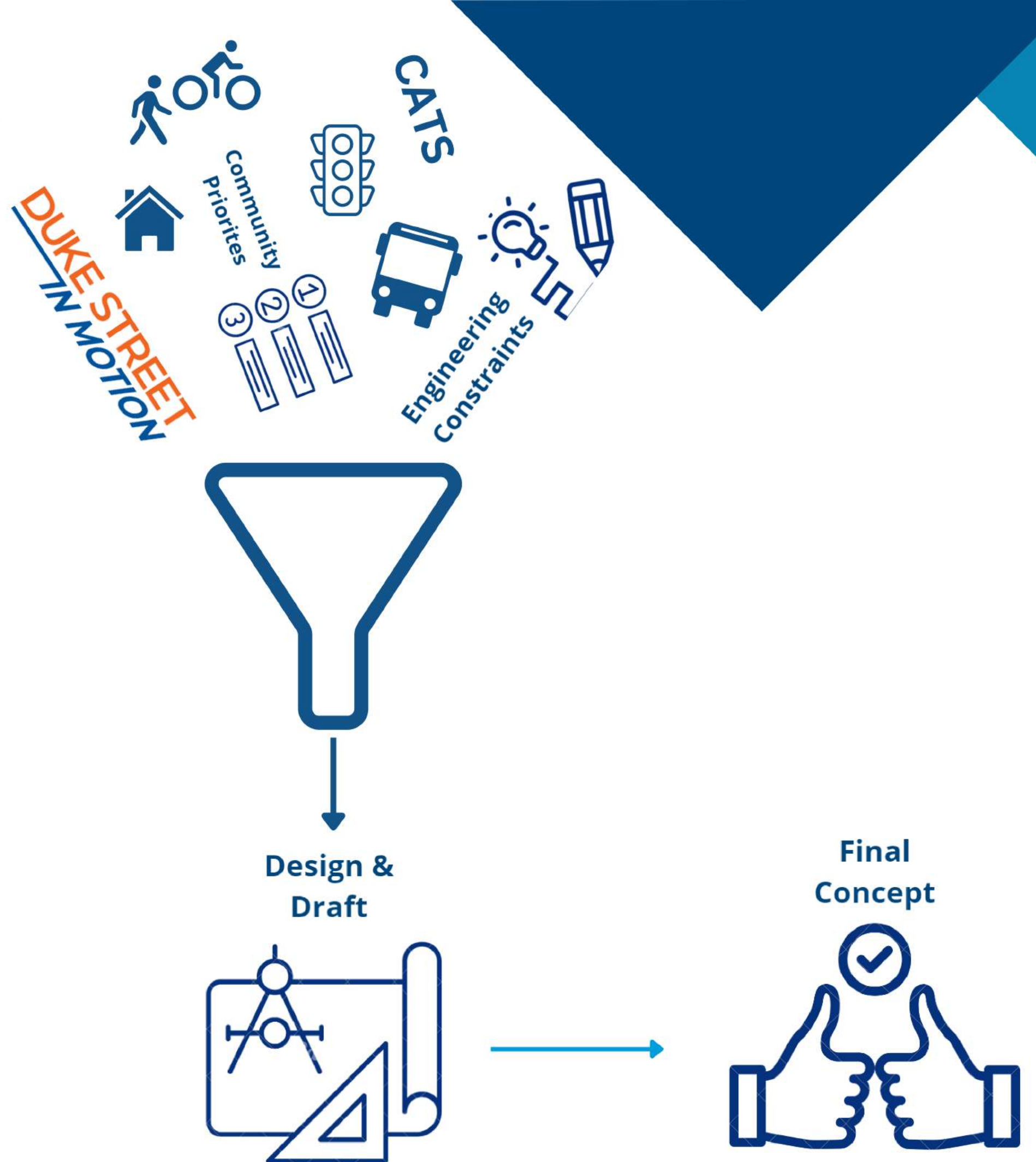


Continual Engagement & Information Sharing



Managing Priorities and Inputs



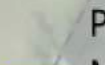
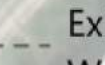









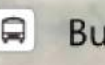
- Improving safety for people walking & biking
- Maintaining access for residents
- Improve transit services
- Increasing & maintaining green space
- Reducing cut-through traffic
- Reducing congestion on Duke Street



Concept Overview

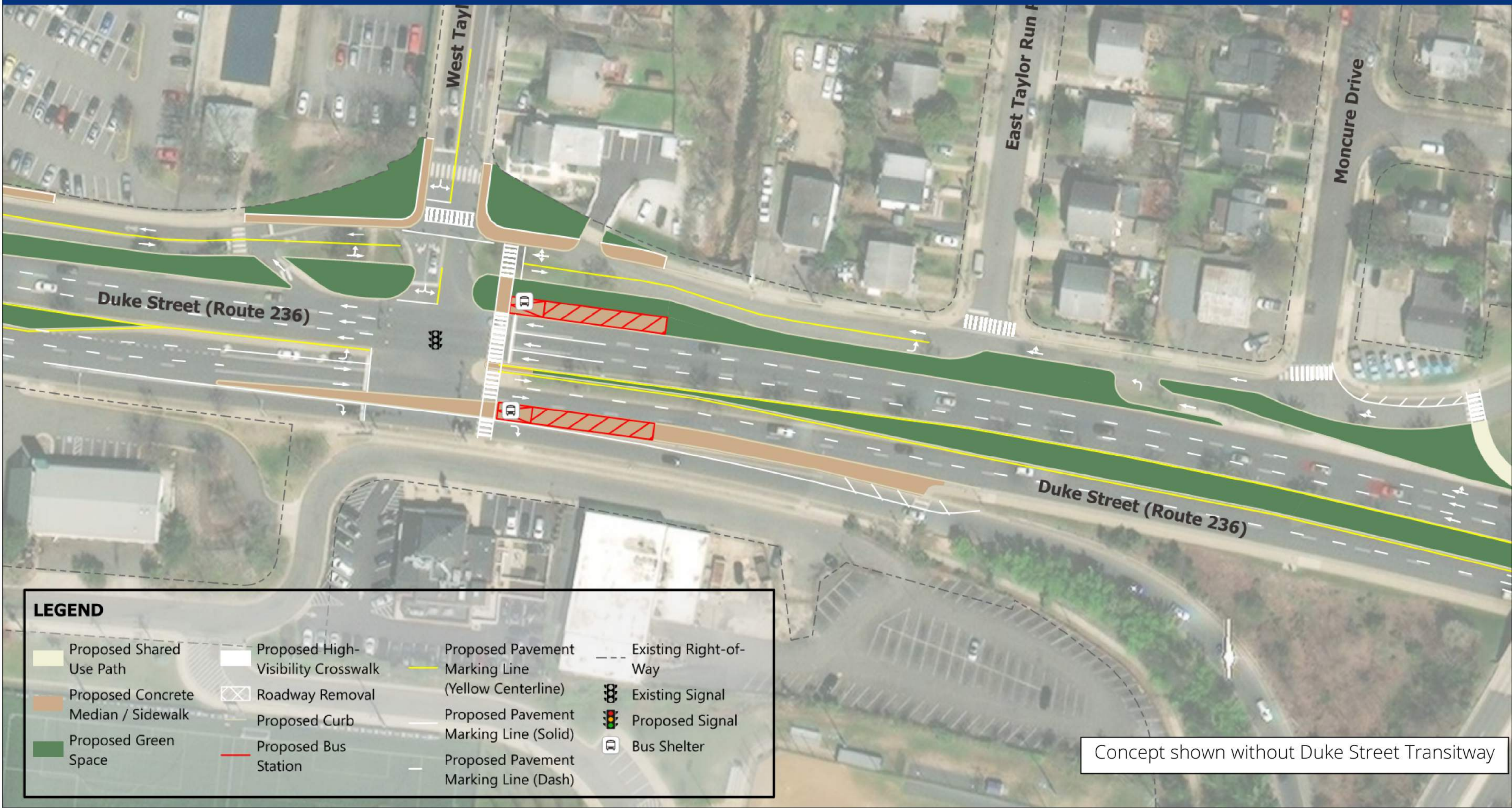


LEGEND















 Proposed Shared Use Path	 Proposed High-Visibility Crosswalk	 Proposed Pavement Marking Line (Yellow Centerline)	 Existing Right-of-Way
 Proposed Concrete Median / Sidewalk	 Roadway Removal	 Proposed Pavement Marking Line (Solid)	 Existing Signal
 Proposed Green Space	 Proposed Curb	 Proposed Pavement Marking Line (Dash)	 Proposed Signal
	 Proposed Bus Station		 Bus Shelter

Concept shown without Duke Street Transitway

West Taylor Run Parkway - Concept

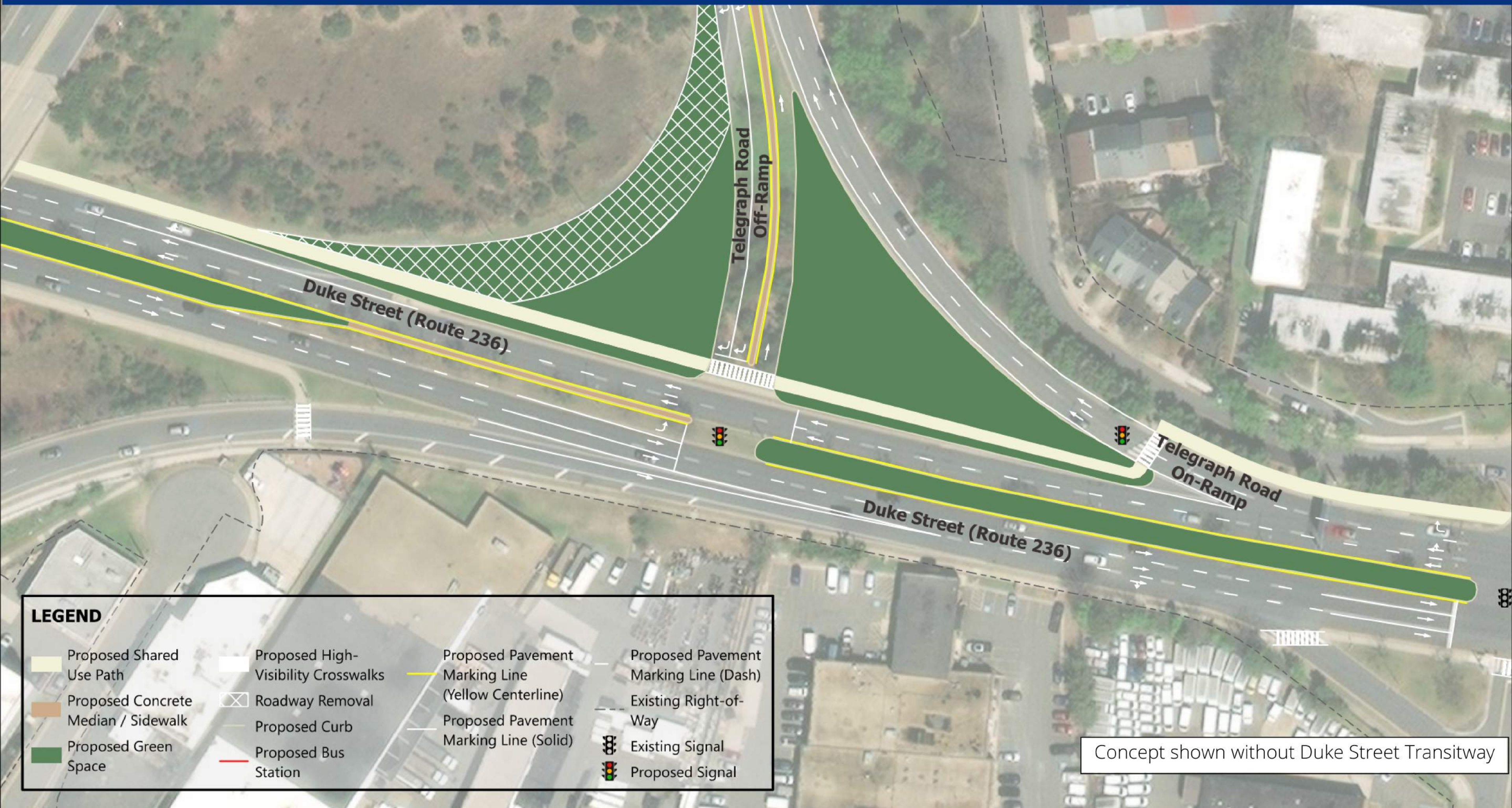


LEGEND

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 Proposed Concrete Median / Sidewalk	 Roadway Removal	 Proposed Pavement Marking Line (Solid)	 Existing Signal
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Concept shown without Duke Street Transitway

Telegraph Road - Concept



LEGEND			
	Proposed Shared Use Path		Proposed High-Visibility Crosswalks
	Proposed Concrete Median / Sidewalk		Roadway Removal
	Proposed Green Space		Proposed Pavement Marking Line (Yellow Centerline)
			Proposed Pavement Marking Line (Solid)
			Proposed Bus Station
			Proposed Pavement Marking Line (Dash)
			Existing Right-of-Way
			Existing Signal
			Proposed Signal

Concept shown without Duke Street Transitway

Duke Street Project

Construction Coordination

- West Taylor Run intersection construction is **less** dependent on the transitway
- Telegraph Road ramp construction is **more** dependent on transitway



Estimated Schedule - Refined During Design

**West Taylor Run
Intersection Project**



DUKE STREET
IN MOTION

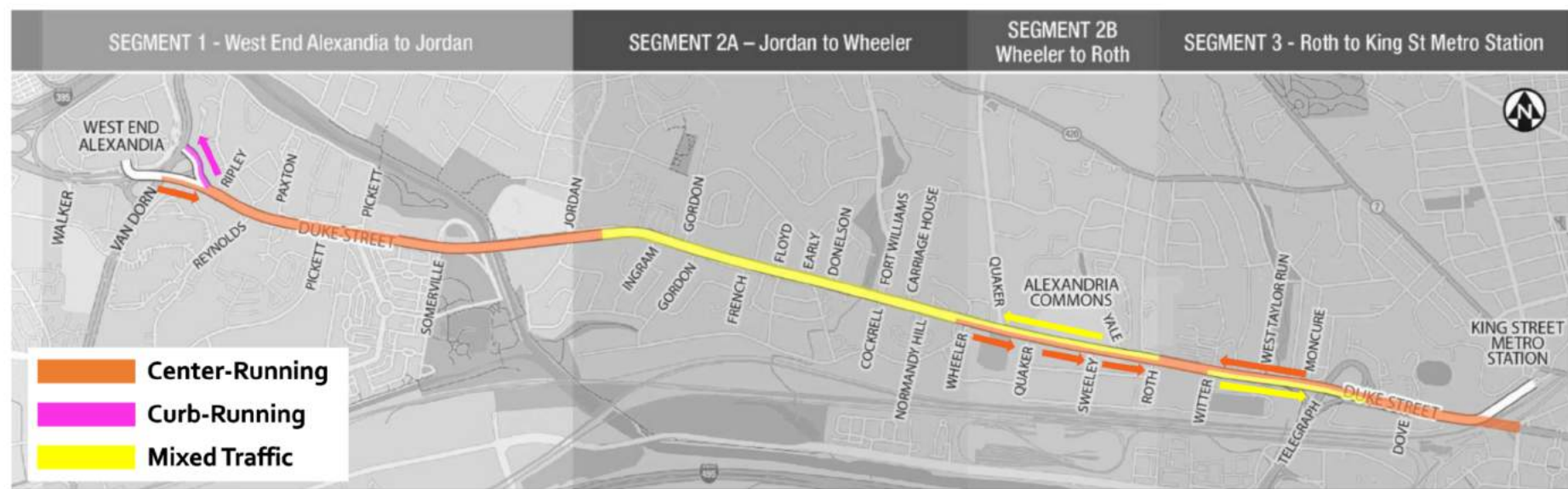
Duke Street Transitway

Multi-phased effort focused on ensuring that transit improvements in the Duke Street corridor that provides transportation options and efficient transportation choices.

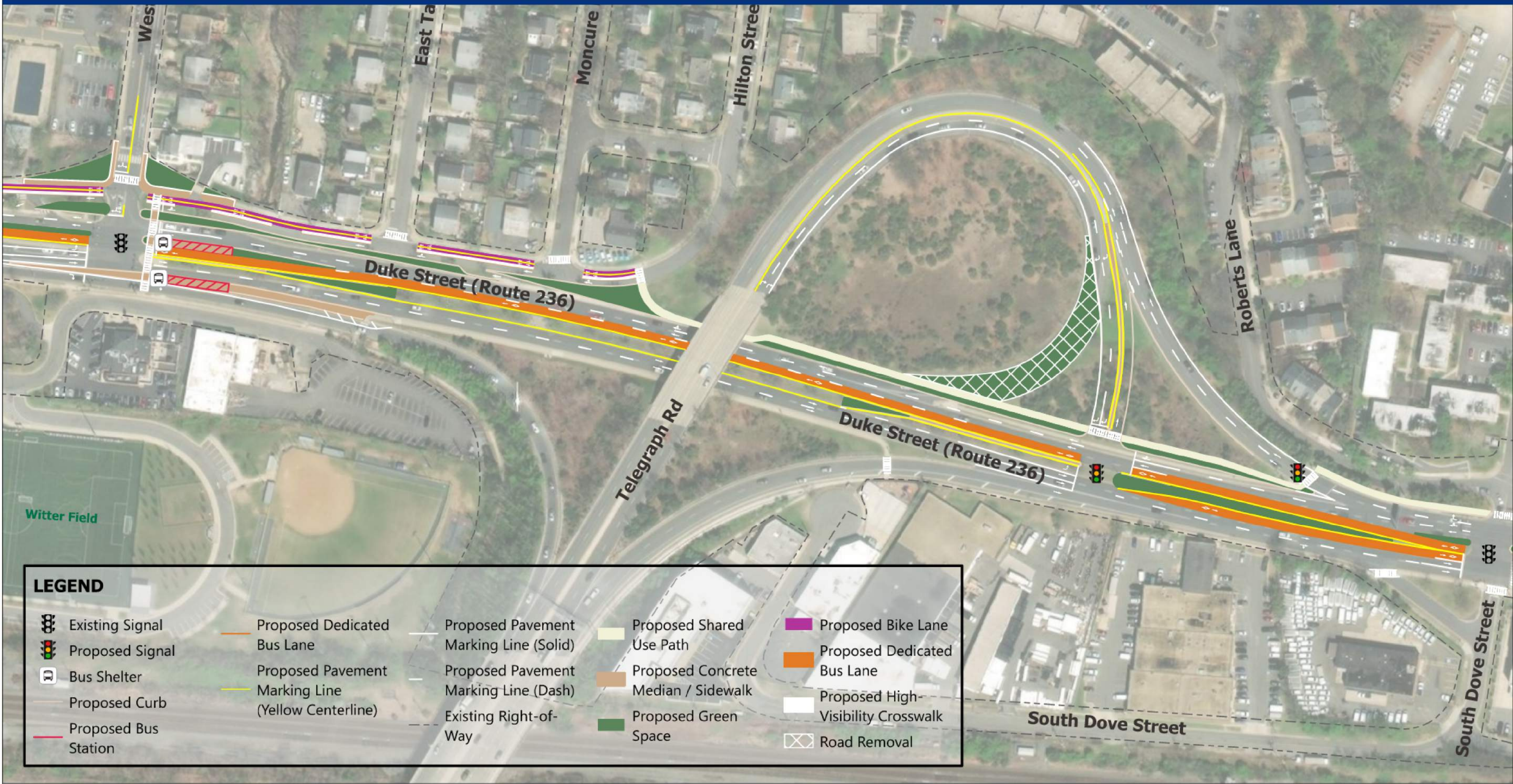
Two Duke Street concepts are being proposed

Center Running and Curb Running

Open House on April 20th from 5-8:30PM at Bishop Ireton



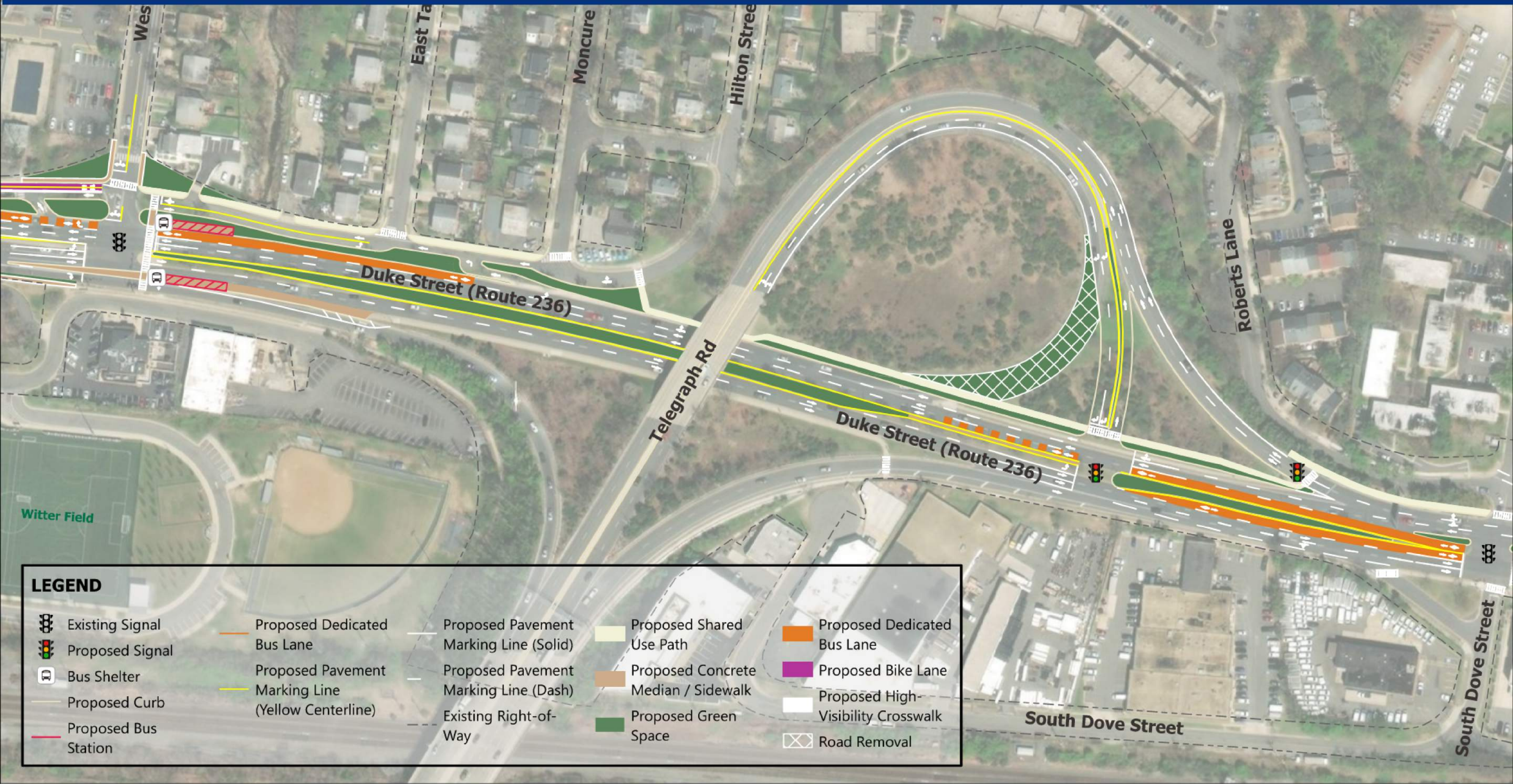
Concept A - Mostly Center Running



LEGEND

	Existing Signal		Proposed Signal		Bus Shelter		Proposed Curb		Proposed Bus Station
	Proposed Dedicated Bus Lane		Proposed Pavement Marking Line (Solid)		Proposed Shared Use Path		Proposed Concrete Median / Sidewalk		Proposed Bike Lane
	Proposed Pavement Marking Line (Yellow Centerline)		Proposed Pavement Marking Line (Dash)		Proposed Dedicated Bus Lane		Proposed Green Space		Proposed High-Visibility Crosswalk
	Existing Right-of-Way		Proposed Concrete Median / Sidewalk		Proposed High-Visibility Crosswalk		Road Removal		

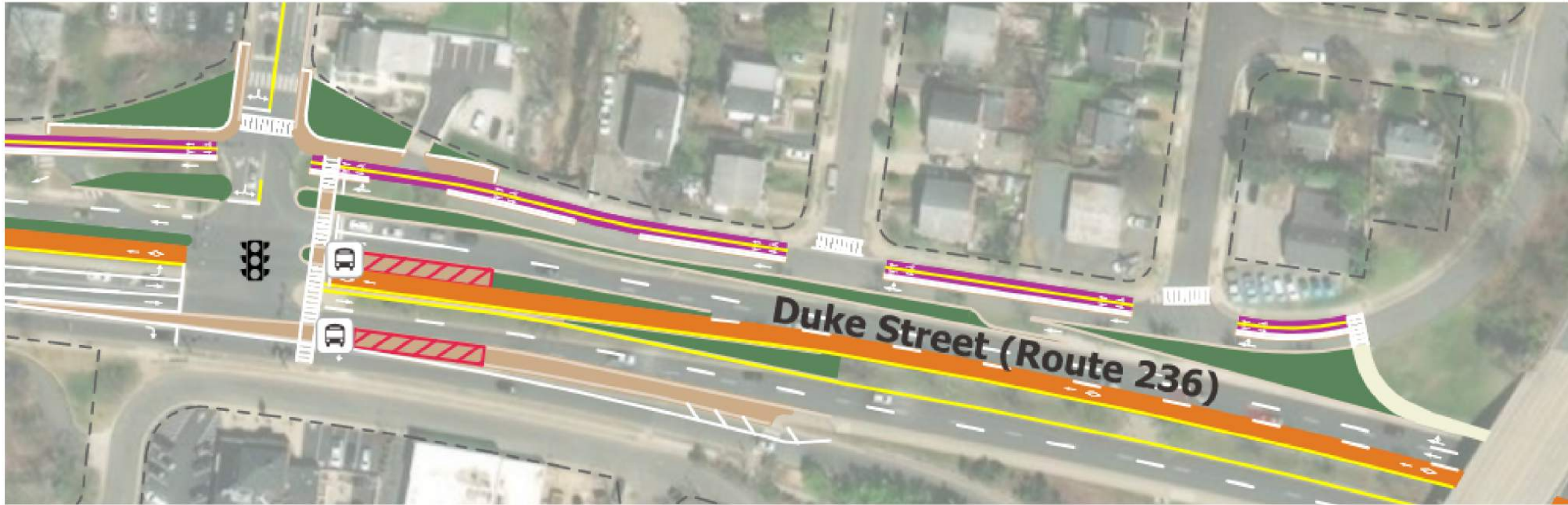
Concept B - Mostly Curb Running



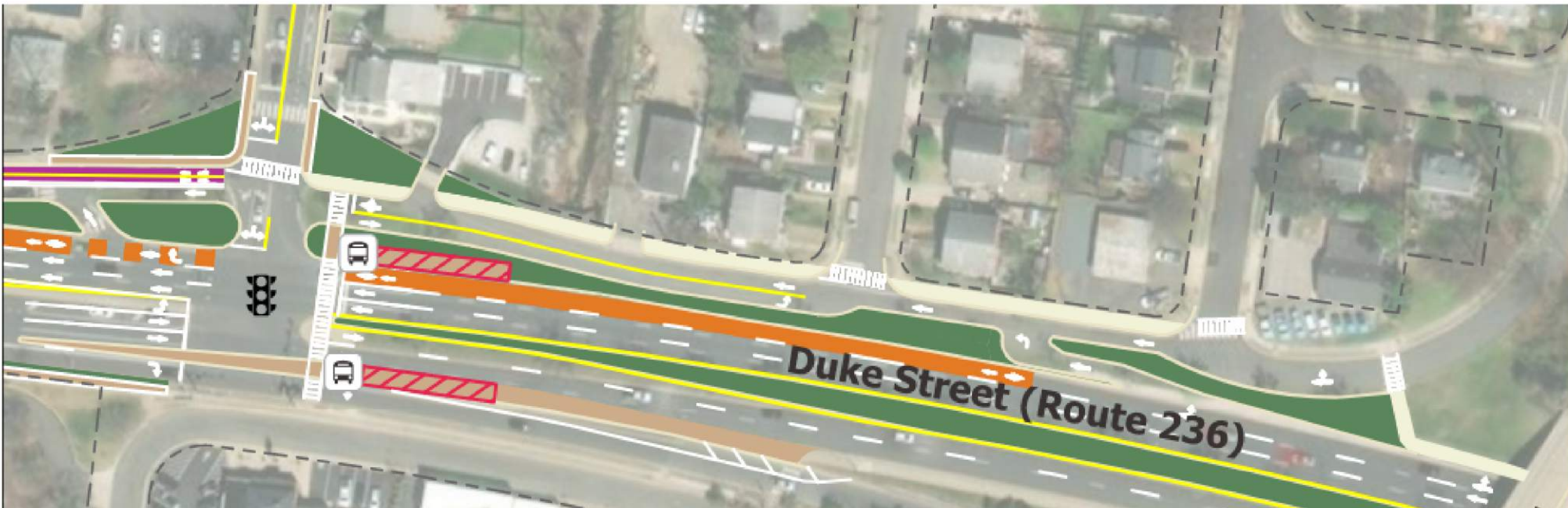
LEGEND

- | | | | | | |
|--|--|--|--|--|------------------------------------|
| | Existing Signal | | Proposed Shared Use Path | | Proposed Dedicated Bus Lane |
| | Proposed Signal | | Proposed Concrete Median / Sidewalk | | Proposed Bike Lane |
| | Bus Shelter | | Proposed Green Space | | Proposed High-Visibility Crosswalk |
| | Proposed Curb | | Proposed Pavement Marking Line (Solid) | | Road Removal |
| | Proposed Bus Station | | Proposed Pavement Marking Line (Dash) | | |
| | Proposed Dedicated Bus Lane | | Existing Right-of-Way | | |
| | Proposed Pavement Marking Line (Yellow Centerline) | | | | |

Duke Street Transitway



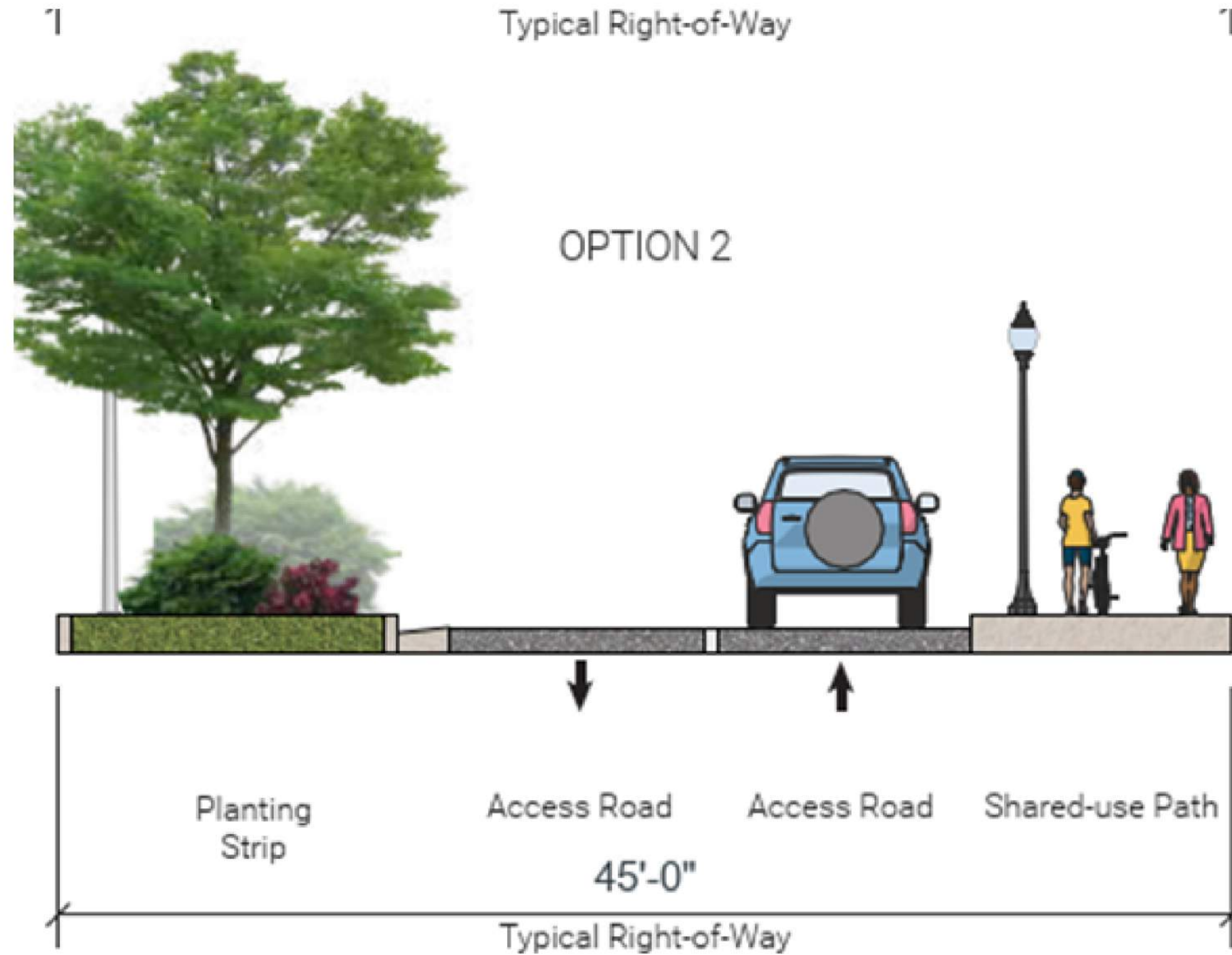
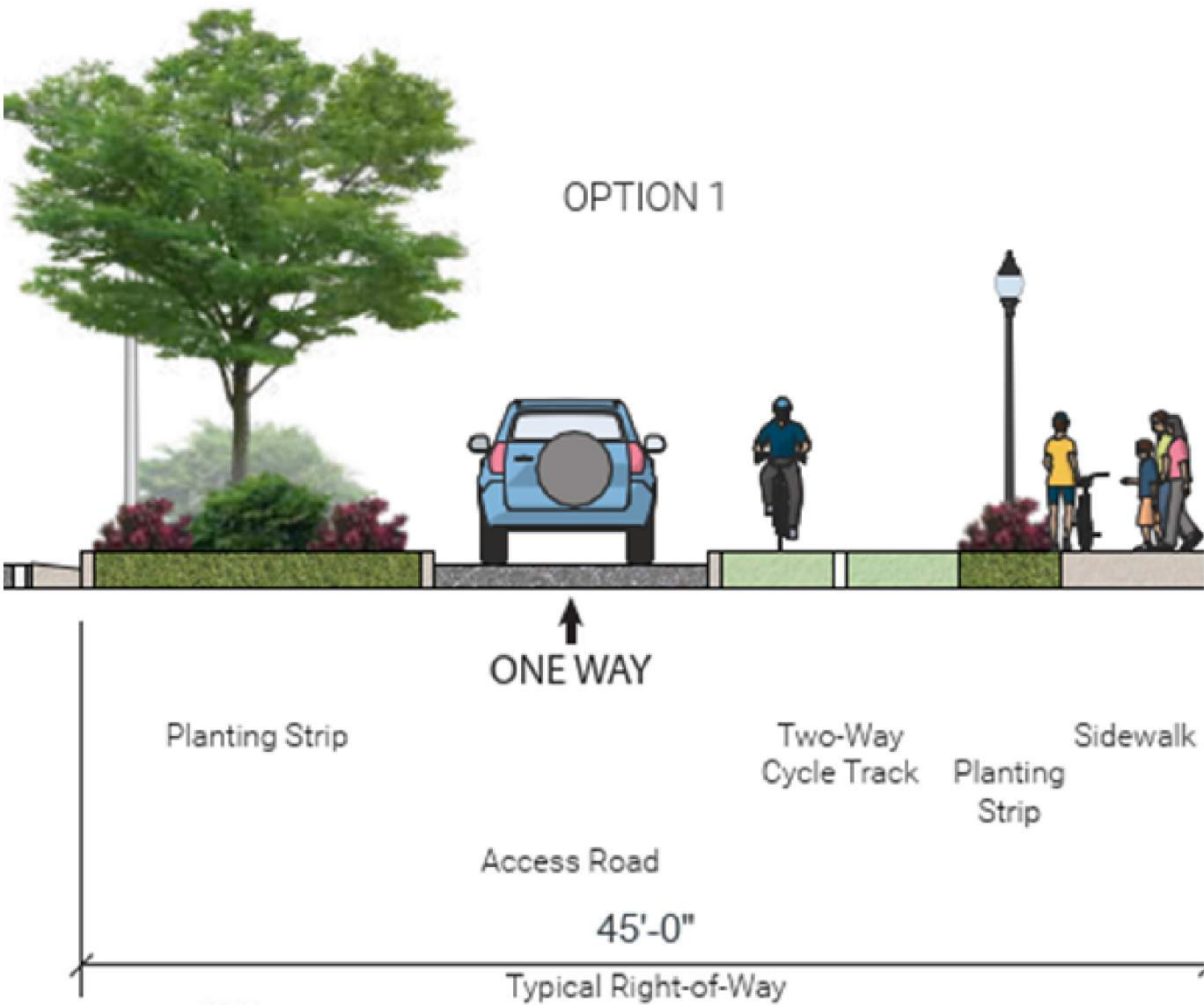
**Concept A -
Mostly
Center
Running**



**Concept B -
Mostly Curb
Running**

**DUKE STREET
IN MOTION**

Edge Features and Service Roads



Focus Areas

Community & Stakeholder Feedback



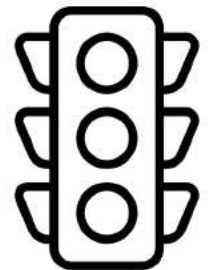
Neighborhood Access - How can we maintain access in and out of streets?

GOAL: Maintain **similar** access to and from neighborhoods



Bike and Pedestrian Safety - How can we safely cross roads and access destinations?

GOAL: Reduce & control **conflict points** at intersections

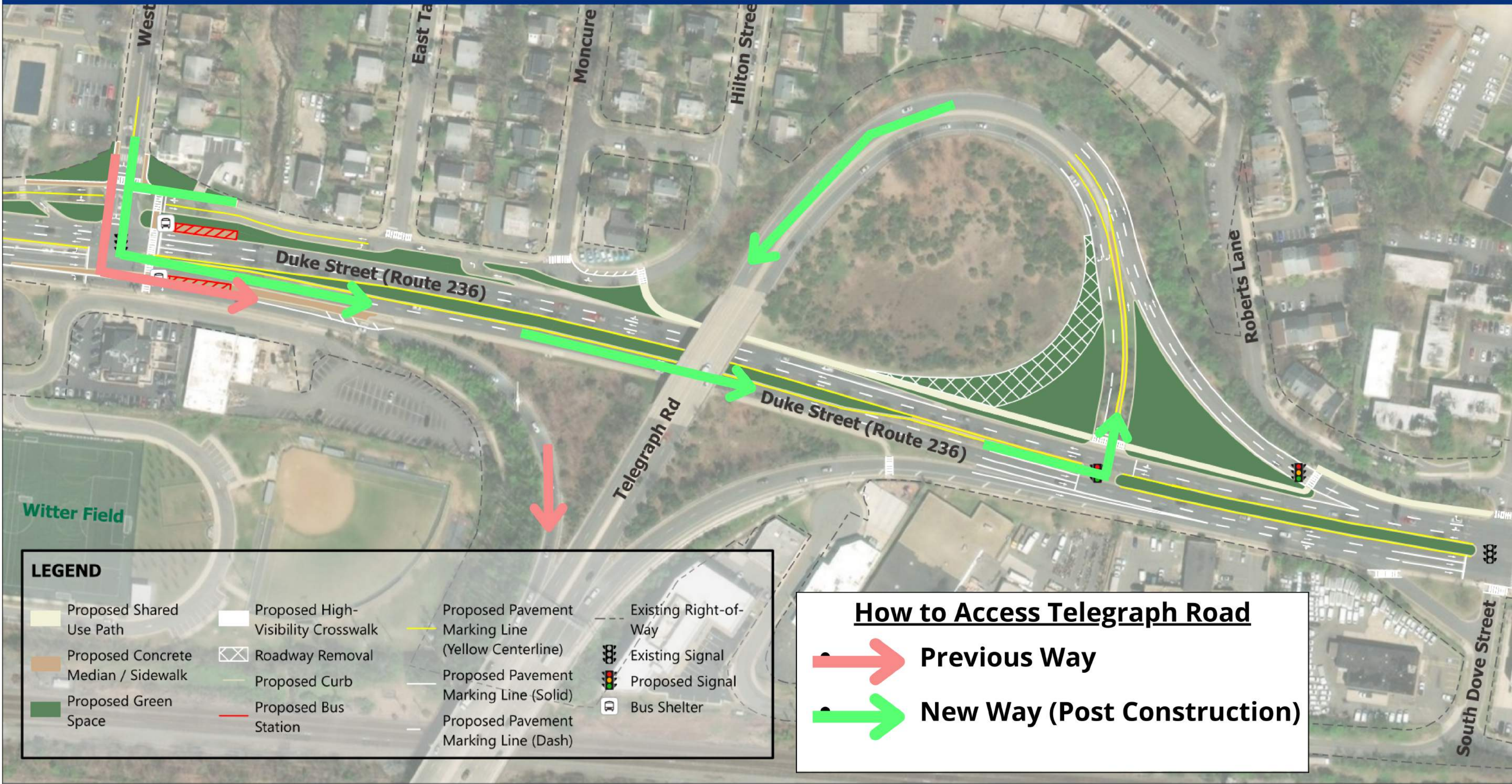


Traffic Operations - How can we maintain and/or improve operations?

GOAL: Minimize **queueing** on Duke Street



Neighborhood Access - Telegraph Road



LEGEND			
	Proposed Shared Use Path		Proposed High-Visibility Crosswalk
	Proposed Concrete Median / Sidewalk		Roadway Removal
	Proposed Green Space		Proposed Curb
	Proposed Bus Station		Proposed Pavement Marking Line (Yellow Centerline)
			Proposed Pavement Marking Line (Solid)
			Proposed Pavement Marking Line (Dash)
			Existing Right-of-Way
			Existing Signal
			Proposed Signal
			Bus Shelter

How to Access Telegraph Road

Previous Way

New Way (Post Construction)

Focus Areas

Community & Stakeholder Feedback



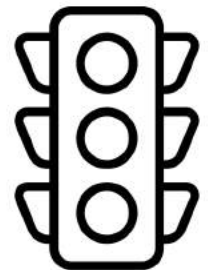
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Bike and Pedestrian Safety - West Taylor Run

Reduced crossing distances with curb extensions at Service Road intersection

No vehicle conflicts with bike and pedestrians at new right-turn location

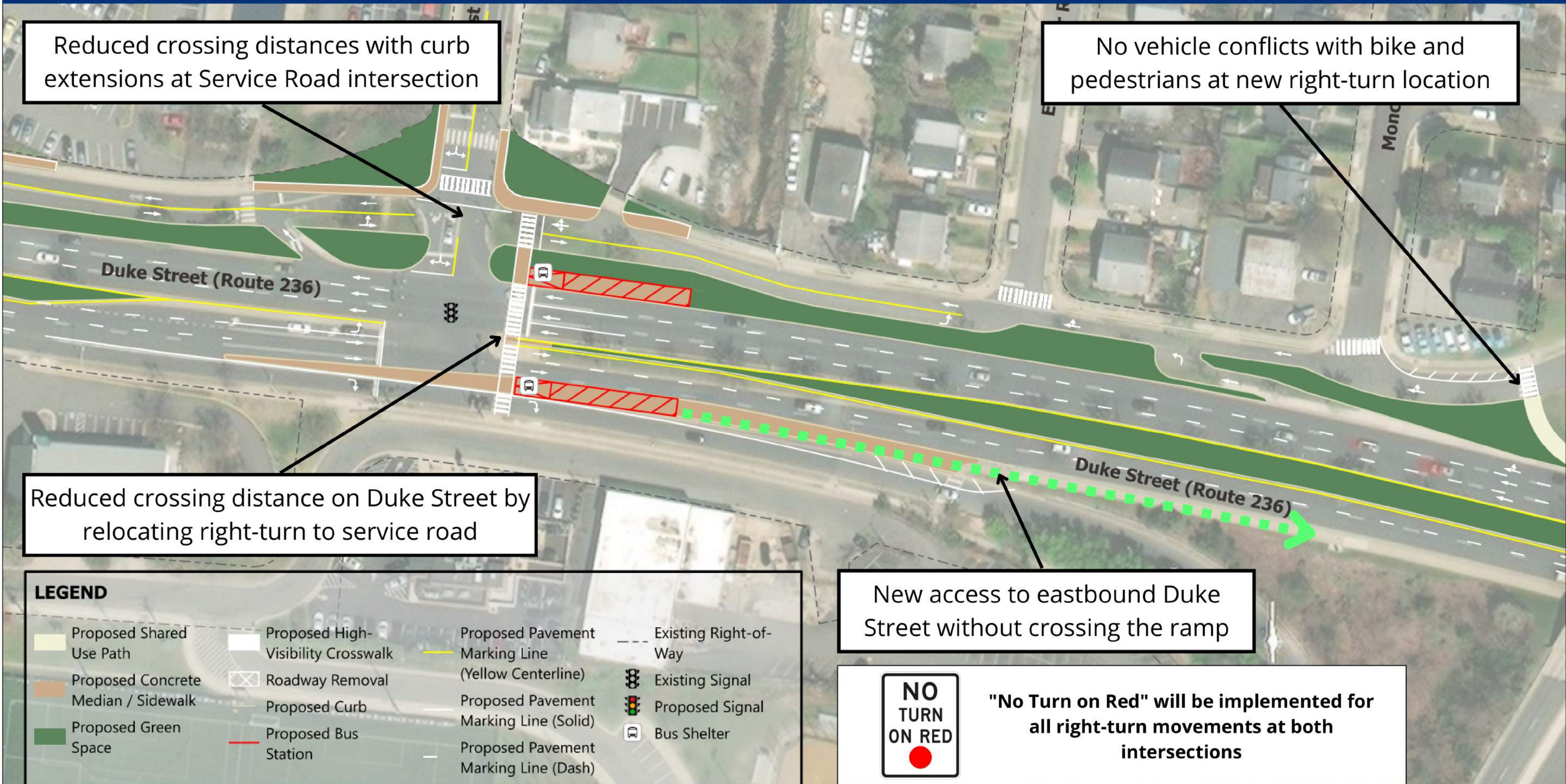
Reduced crossing distance on Duke Street by relocating right-turn to service road

New access to eastbound Duke Street without crossing the ramp

NO TURN ON RED
"No Turn on Red" will be implemented for all right-turn movements at both intersections

LEGEND

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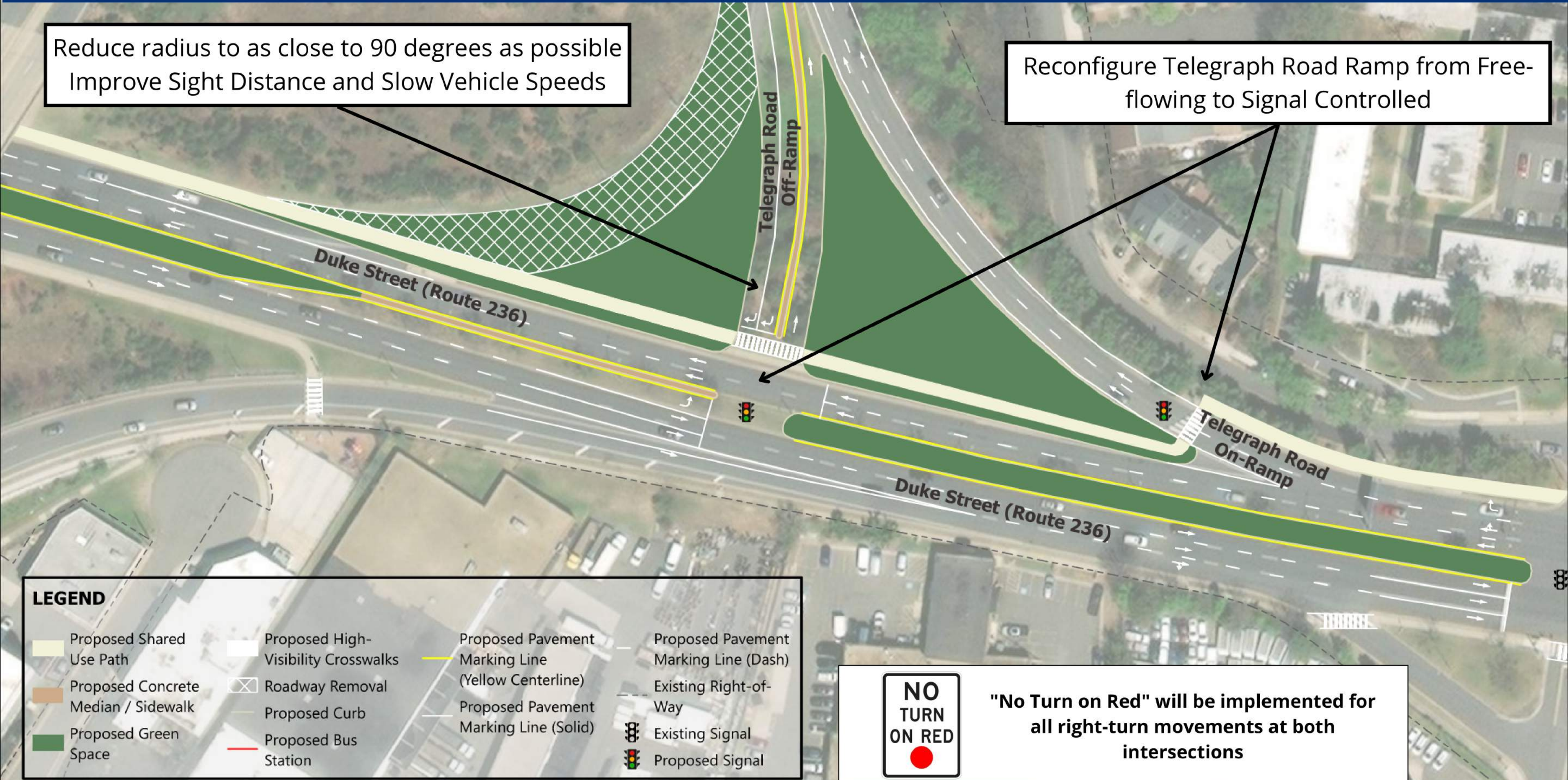




Bike and Pedestrian Safety - Telegraph Road

Reduce radius to as close to 90 degrees as possible
Improve Sight Distance and Slow Vehicle Speeds

Reconfigure Telegraph Road Ramp from Free-flowing to Signal Controlled



LEGEND

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	Proposed Bus Station		

**NO
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ON RED**

"No Turn on Red" will be implemented for all right-turn movements at both intersections

Focus Areas

Community & Stakeholder Feedback



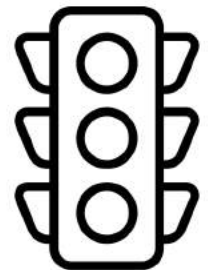
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Traffic Operations - How can we maintain and/or improve operations?

GOAL: Minimize **queueing** on Duke Street



Traffic Operations - General

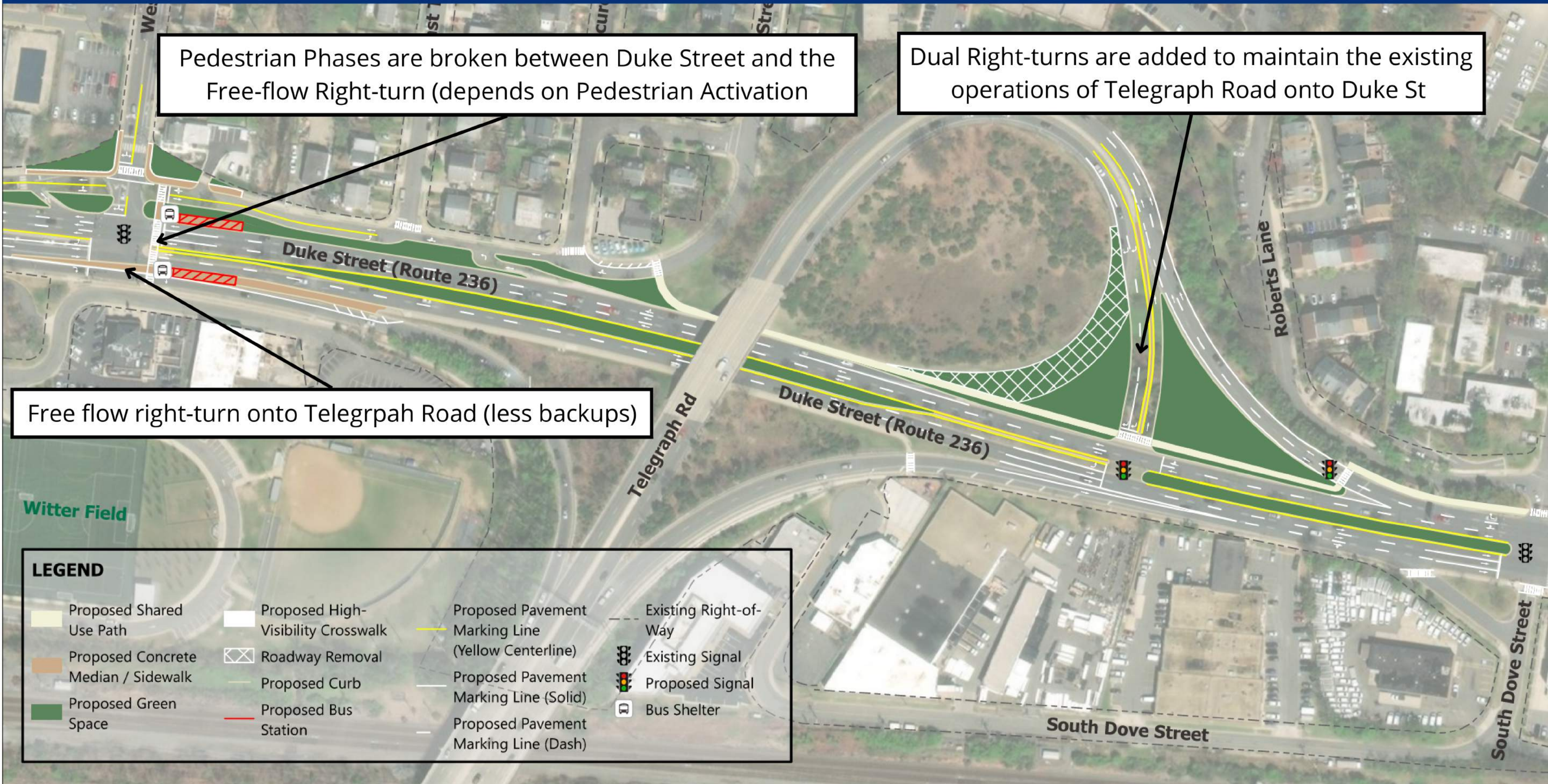
Pedestrian Phases are broken between Duke Street and the Free-flow Right-turn (depends on Pedestrian Activation)

Dual Right-turns are added to maintain the existing operations of Telegraph Road onto Duke St

Free flow right-turn onto Telegrpah Road (less backups)

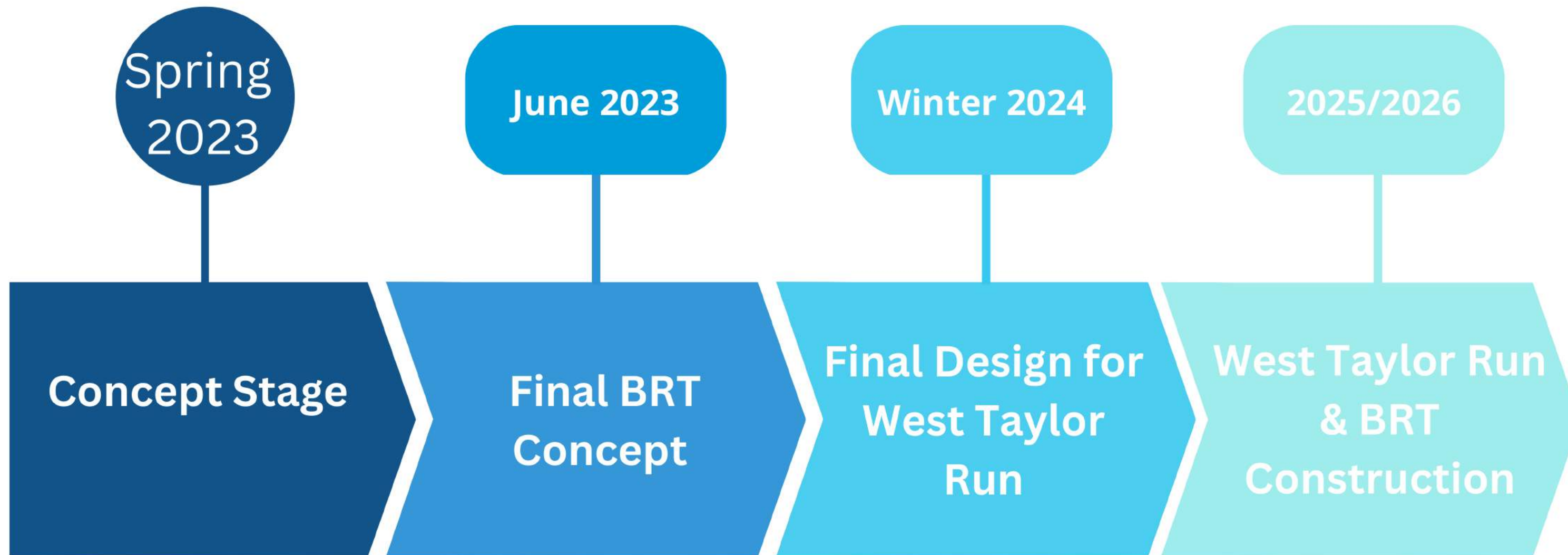
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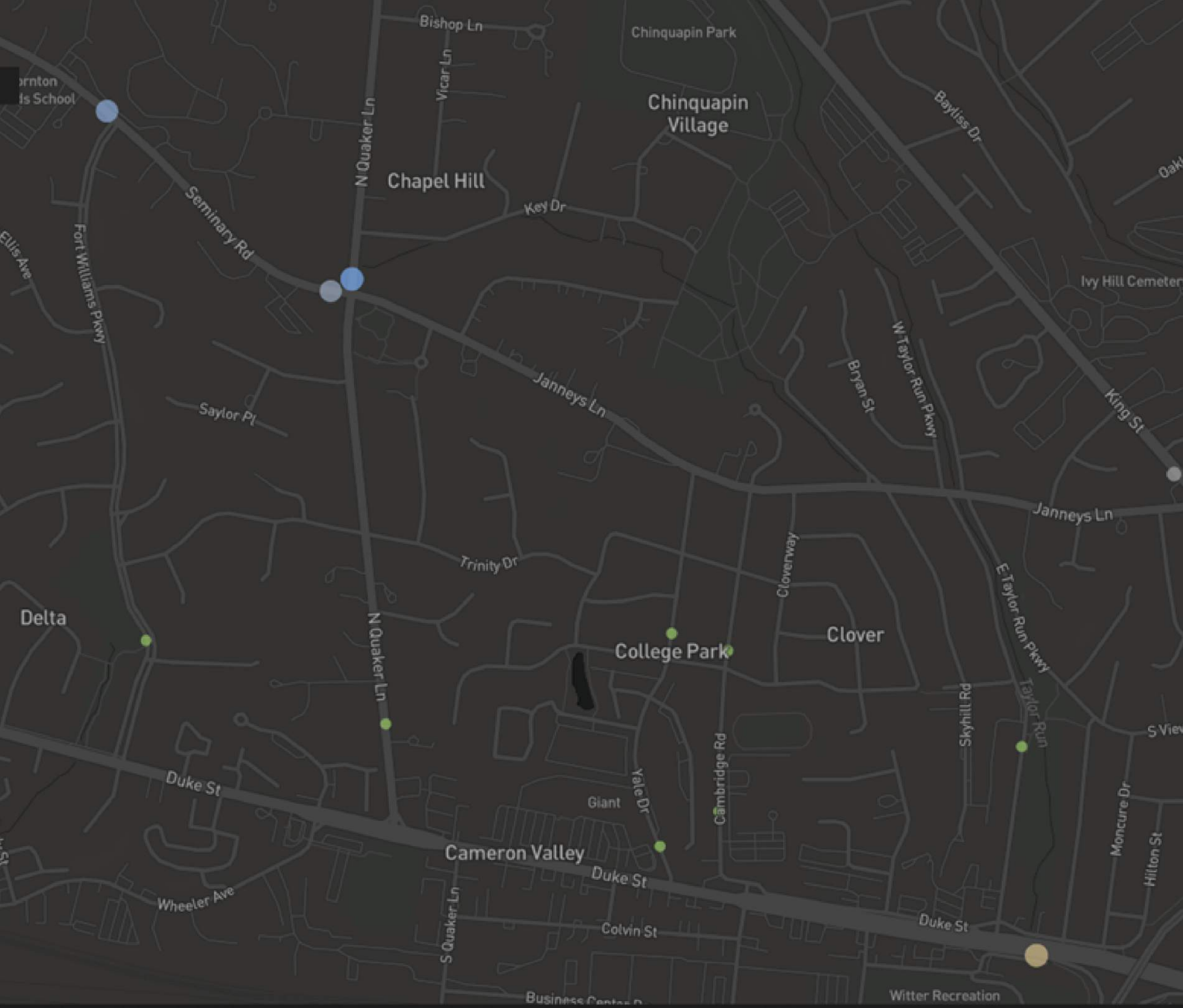
Duke at West Taylor Run Intersection

Next Steps



Continual Engagement & Information Sharing





Contact & Project Information



703-746-4266



Daniel.Scolese@alexandriava.gov



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