

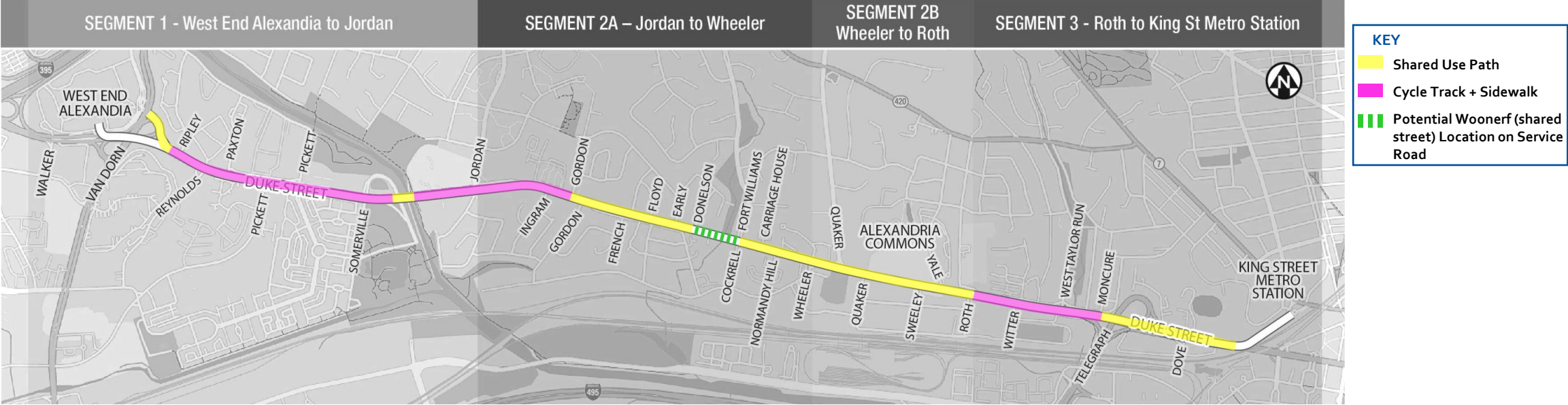
CONTENTS

- Curb features concept maps
- Examples of various types of curb features
- Sample cross sections*
- Sample schematics*

*Schematics use Corridor Concept A as the busway, but they can be applied to Corridor Concept B as well

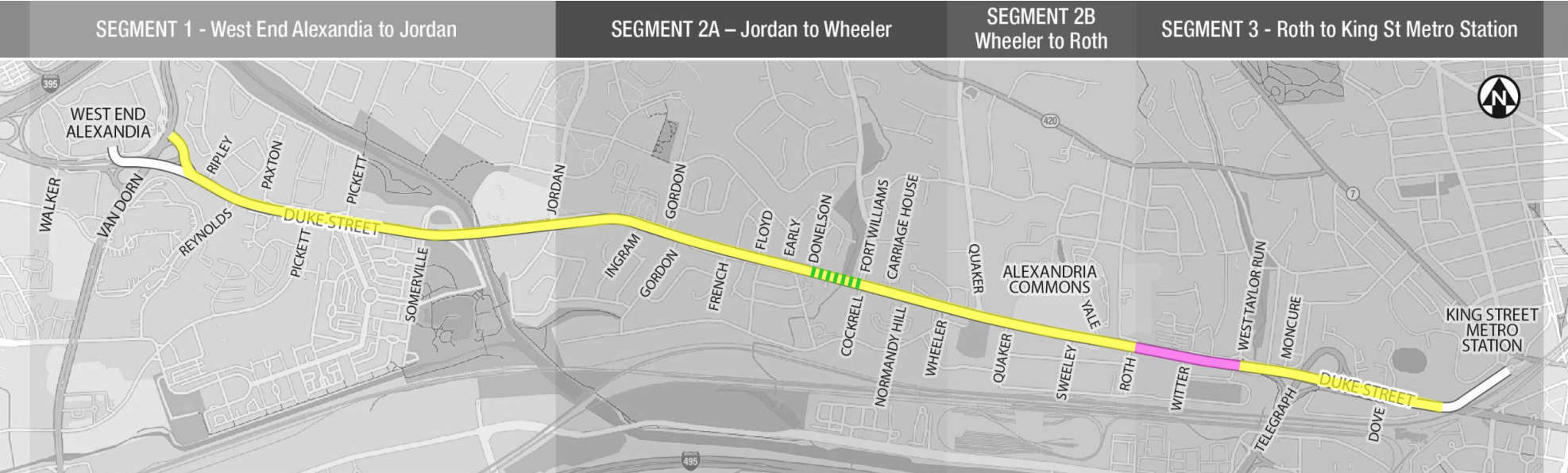
Proposed Curb Concept Y

(North Side of Duke Street)



Proposed Curb Concept Z

(North Side of Duke Street)



Proposed Facility / Types: Biking

Two-way cycle track



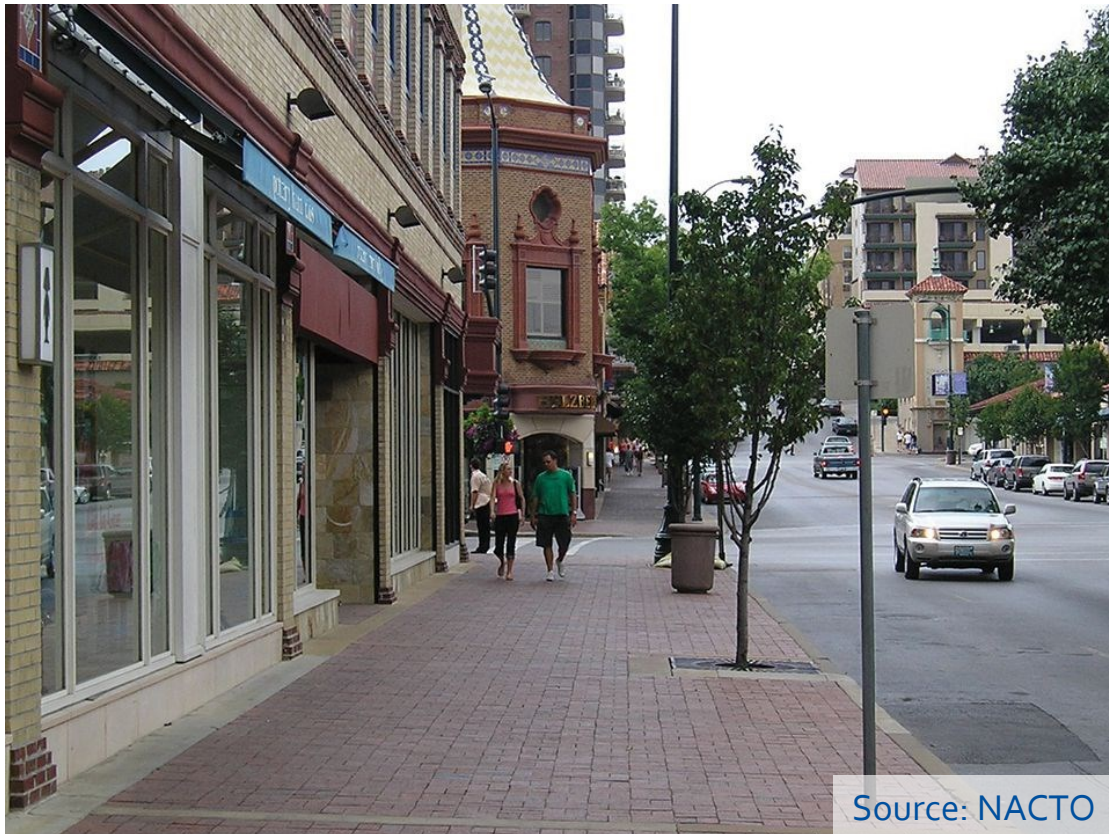
Shared use path



Source: Trillink

Proposed Facility / Types: Walking

Wide sidewalk next to curbs



Source: NACTO

Sidewalk with buffer



Proposed Facility / Types: Streetscape & Water Quality Elements

Landscaping



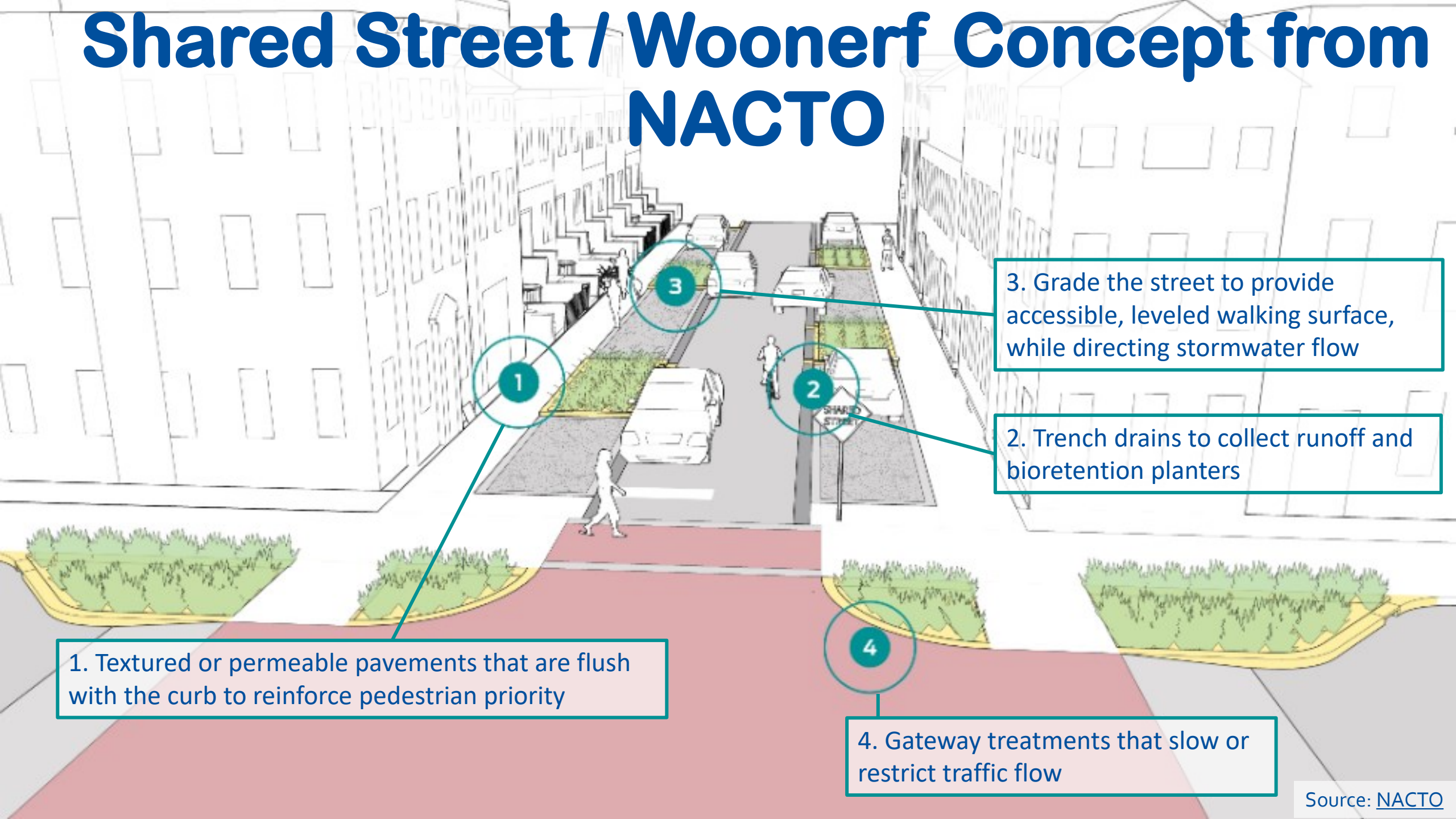
Tree canopy



Rain gardens/stormwater features



Shared Street / Woonerf Concept from NACTO



1. Textured or permeable pavements that are flush with the curb to reinforce pedestrian priority

3. Grade the street to provide accessible, leveled walking surface, while directing stormwater flow

2. Trench drains to collect runoff and bioretention planters

4. Gateway treatments that slow or restrict traffic flow

Proposed Facility / Types: Woonerf

Shared Street Implementation in
Santa Monica, CA



Shared Street / Woonerf in the Netherlands



Proposed Facility / Types: Woonerf

Shared Street in a Commercial District



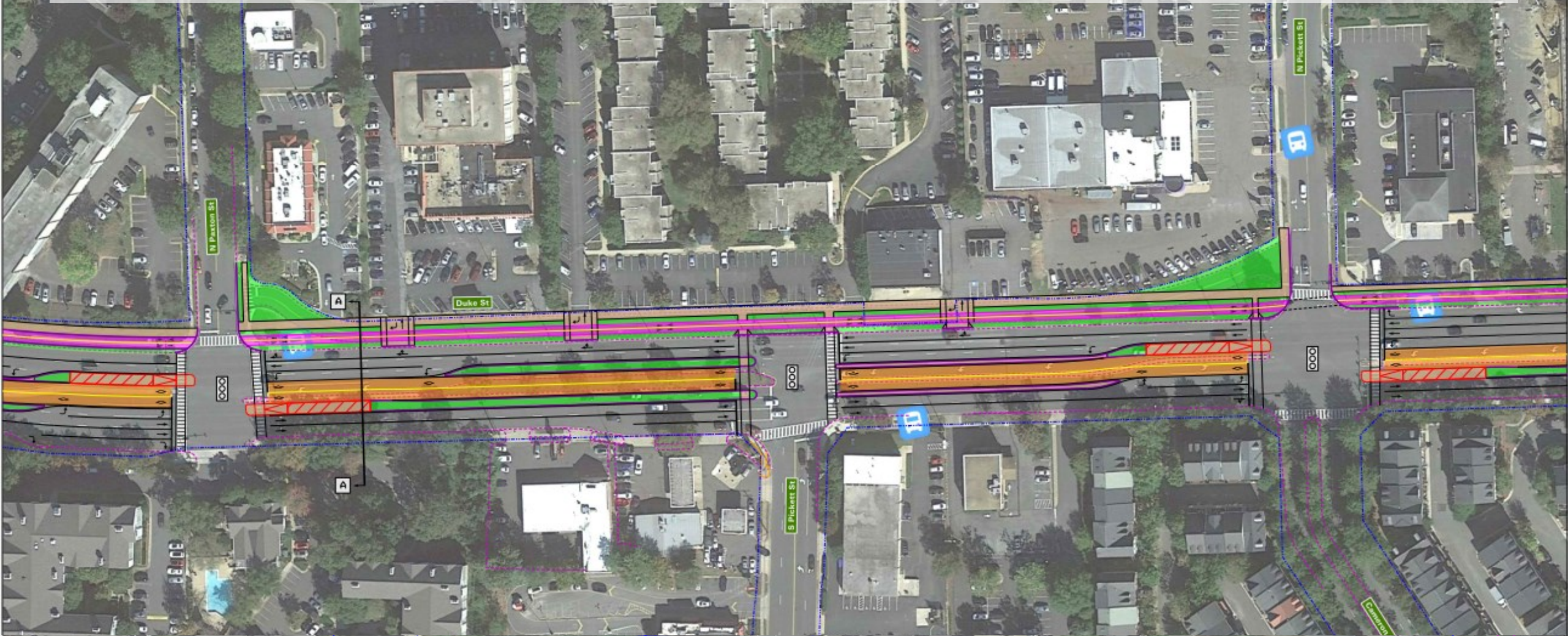
Source: [Chicago Tribune](#)

Flexible Street in Kirkland, WA



Source: [Toole Design](#)

Paxton to Pickett (Concept Y)



CONCEPTUAL

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

- | | | |
|---|----------------------------------|----------------------|
| PROP. CURB | PROP. DEDICATED BUS LANE | DEMO |
| PROP. CURB AND GUTTER | PROP. BUS LANE / TURN LANE | PROPOSED BUS STATION |
| EX. FACE OF CURB | PROP. BIKE LANE | PROPOSED SIGNAL |
| PROP. PAVEMENT MARKING LINE (SOLID) | PROP. GREEN SPACE | EXISTING SIGNAL |
| PROP. PAVEMENT MARKING LINE (YELLOW CENTERLINE) | PROP. CONCRETE MEDIAN / SIDEWALK | |
| PROP. PAVEMENT MARKING LINE (DASH) | PROP. SHARED USE PATH | |
| EX. RIGHT-OF-WAY | | |

CITY OF *Alexandria* VIRGINIA

DUKE STREET
IN MOTION



Duke Street BRT

Curb Features
Option 1

CITY OF ALEXANDRIA

VIRGINIA

PROJECT NO.
XXXXXXX

DATE
FEBRUARY 2023

SCALE: 1" = 25'

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SHEET NO.

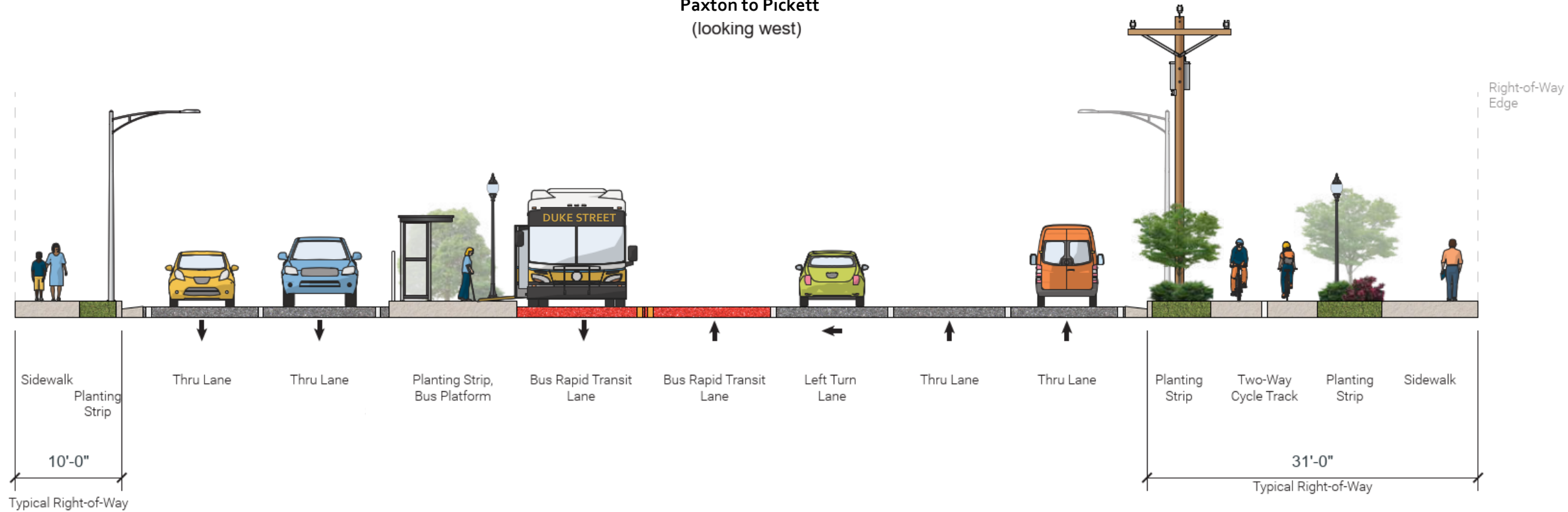
1-1

SCALE
0 50 100'

Paxton to Pickett

Section A-A

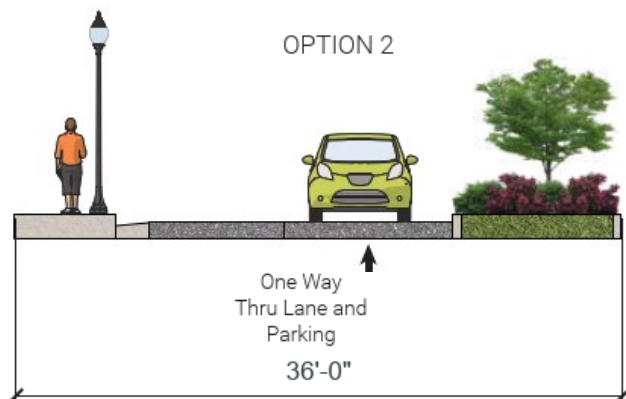
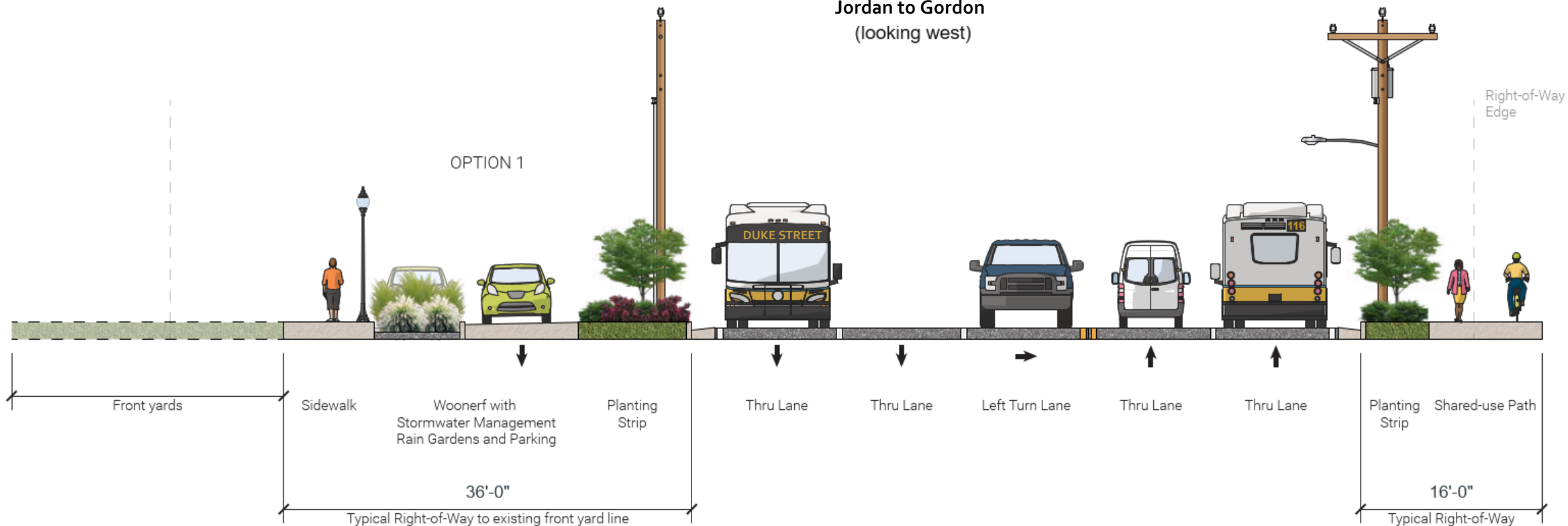
Paxton to Pickett
(looking west)



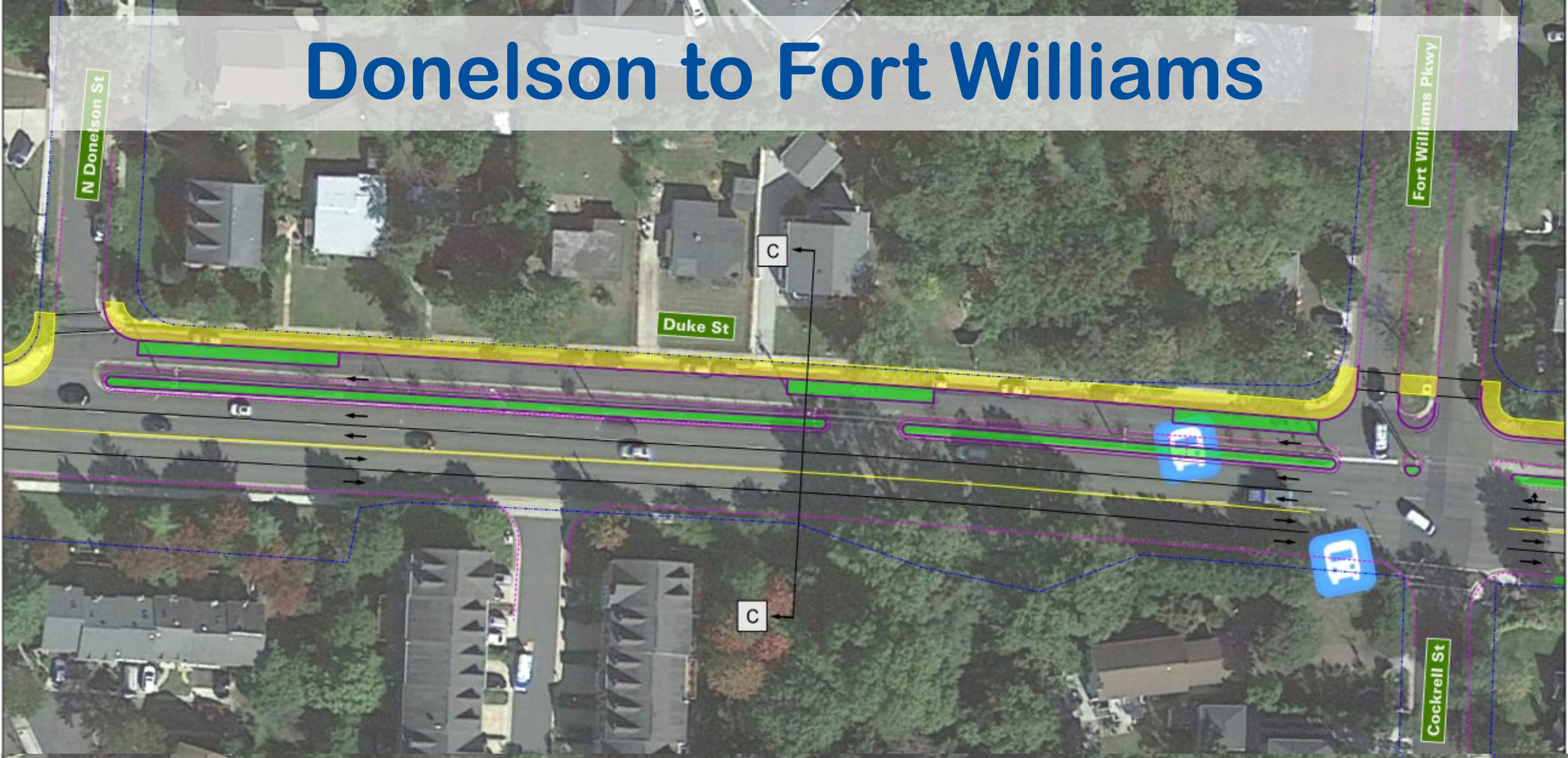
Jordan to Gordon

Section B-B

Jordan to Gordon
(looking west)



Donelson to Fort Williams

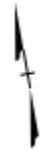


CONCEPTUAL

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

	PROP. CURB		PROP. DEDICATED BUS LANE		DEMO
	PROP. CURB AND GUTTER		PROP. BUS LANE / TURN LANE		PROPOSED BUS STATION
	EX. FACE OF CURB		PROP. BIKE LANE		PROPOSED SIGNAL
	PROP. PAVEMENT MARKING LINE (SOLID)		PROP. GREEN SPACE		EXISTING SIGNAL
	PROP. PAVEMENT MARKING LINE (YELLOW/CENTERLINE)		PROP. CONCRETE MEDIAN / SIDEWALK		
	PROP. PAVEMENT MARKING LINE (DASH)		PROP. SHARED USE PATH		
	EX. RIGHT-OF-WAY				



Duke Street BRT Curb Features Option 1

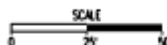
CITY OF ALEXANDRIA

VIRGINIA

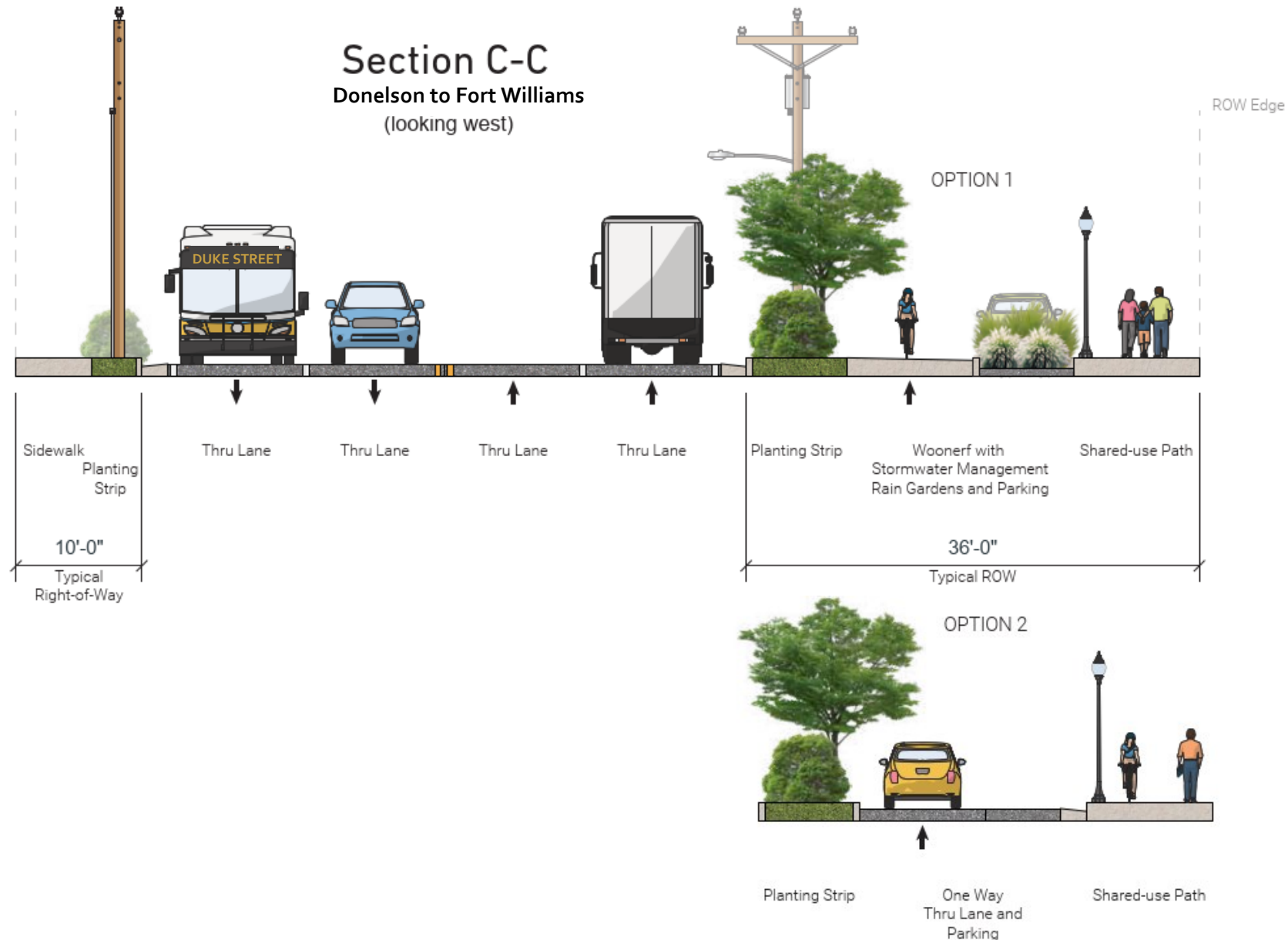
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XXXXXX
DATE
FEBRUARY 2023
SCALE: 1" = 25'
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SHEET NO.

1-3



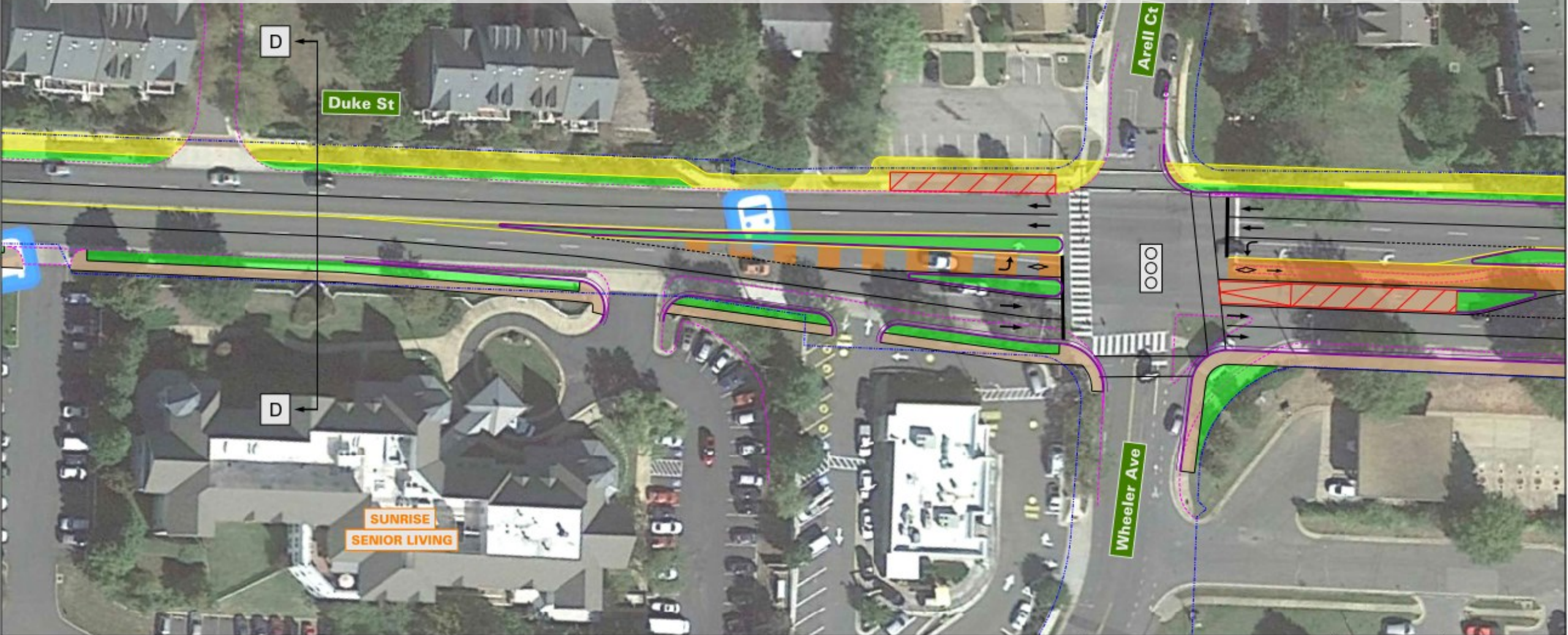
Donelson to Fort Williams



Donelson to Fort Williams



Fort Williams to Wheeler



CONCEPTUAL

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NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

- PROP. CURB
- PROP. CURB AND GUTTER
- EX. FACE OF CURB
- PROP. PAVEMENT MARKING LINE (SOLID)
- PROP. PAVEMENT MARKING LINE (YELLOW/CENTERLINE)
- PROP. PAVEMENT MARKING LINE (DASH)
- EX. RIGHT-OF-WAY

- PROP. DEDICATED BUS LANE
- PROP. BUS LANE / TURN LANE
- PROP. BIKE LANE
- PROP. GREEN SPACE
- PROP. CONCRETE MEDIAN / SIDEWALK
- PROP. SHARED USE PATH

- DEMO
- PROPOSED BUS STATION
- PROPOSED SIGNAL
- EXISTING SIGNAL



Duke Street BRT Curb Features Option 1

CITY OF ALEXANDRIA

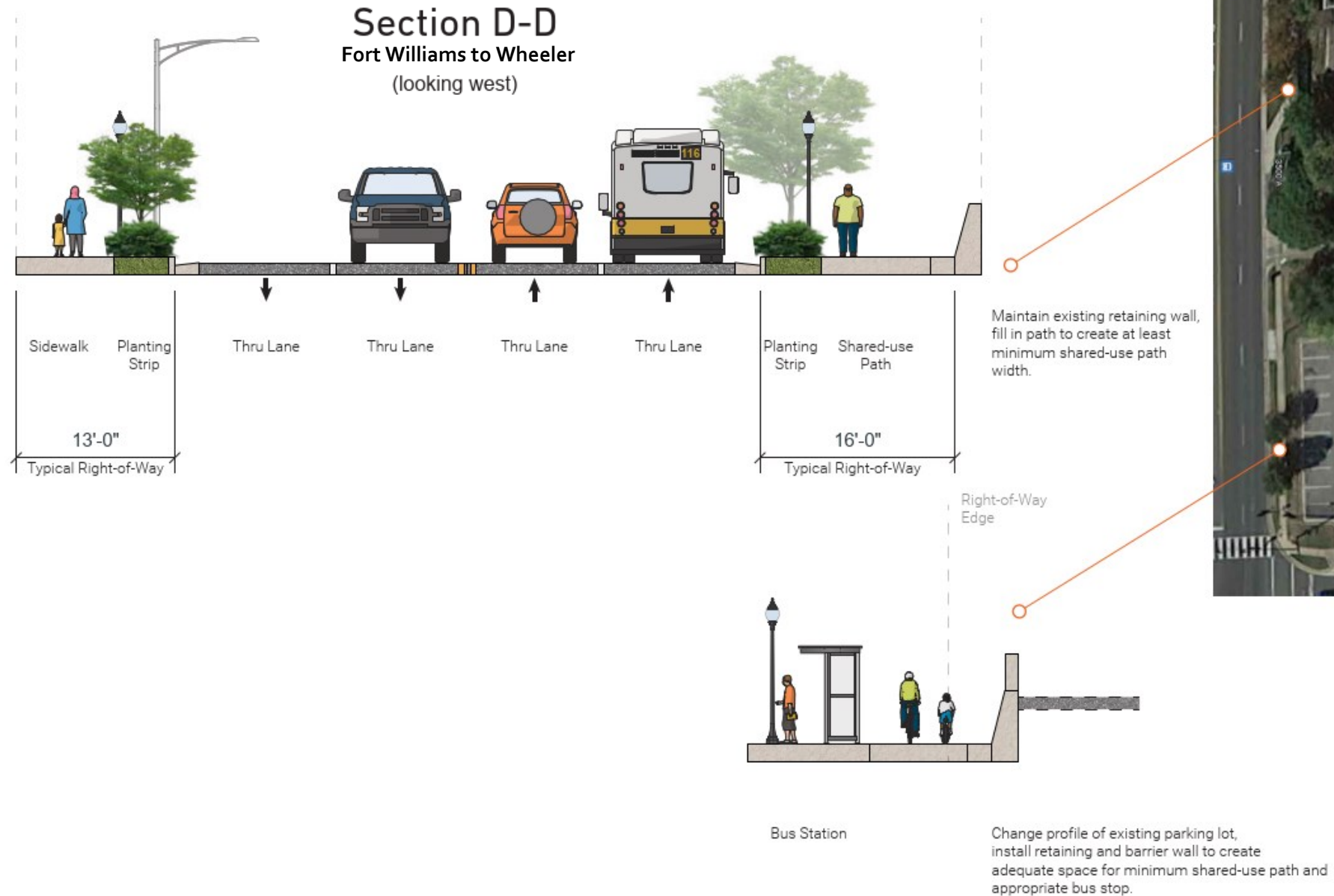
VIRGINIA

PROJECT NO. XXXXXXX
DATE
FEBRUARY 2023
SCALE: 1" = 25'
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SHEET NO.
1-4

SCALE 1" = 25'
0 25 50'

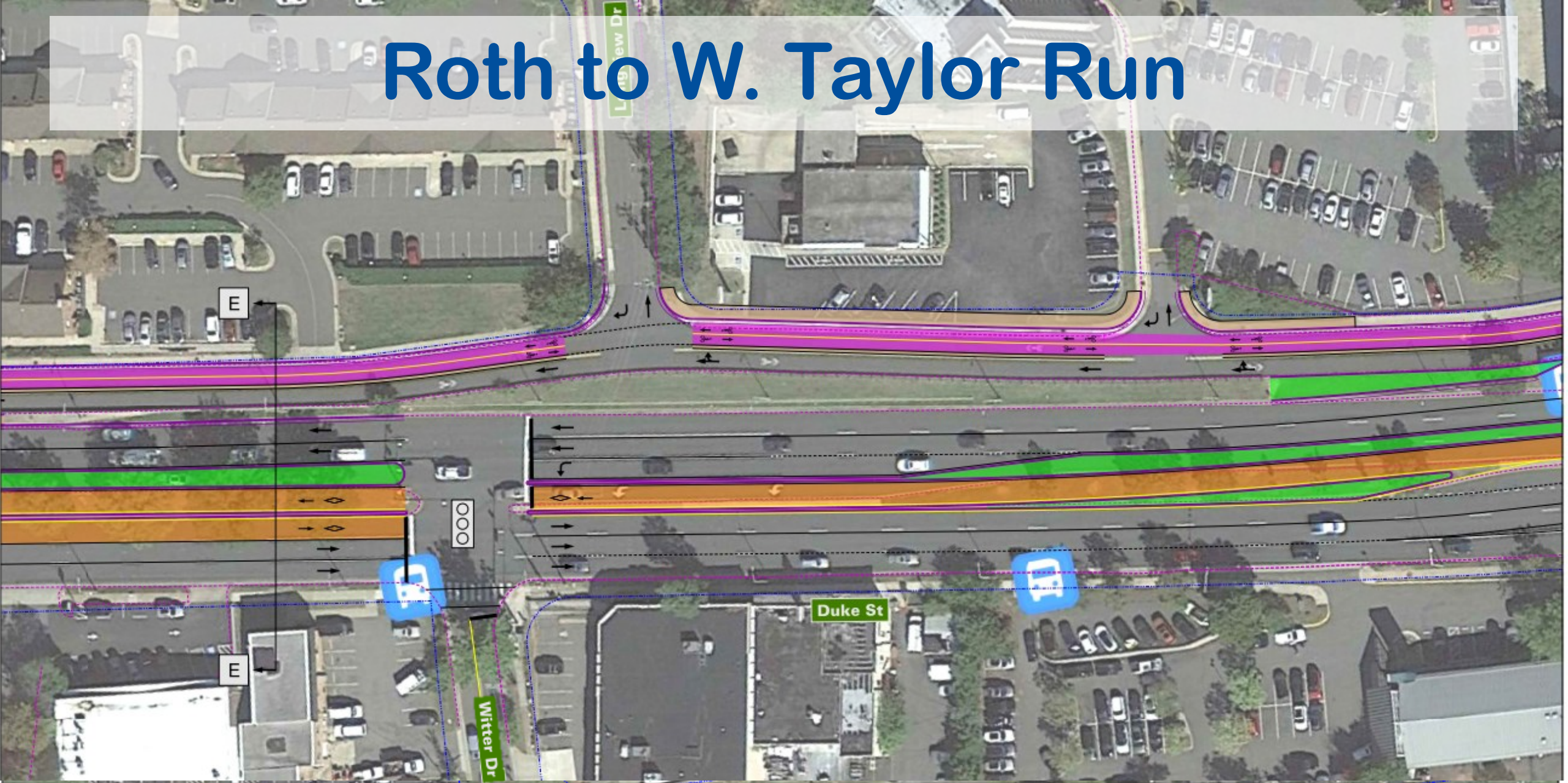
Fort Williams to Wheeler



Fort Williams to Wheeler



Roth to W. Taylor Run



CONCEPTUAL
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

- | | | |
|---|----------------------------------|----------------------|
| PROP. CURB | PROP. DEDICATED BUS LANE | DEMO |
| PROP. CURB AND GUTTER | PROP. BUS LANE / TURN LANE | PROPOSED BUS STATION |
| EX. FACE OF CURB | PROP. BIKE LANE | PROPOSED SIGNAL |
| PROP. PAVEMENT MARKING LINE (SOLID) | PROP. GREEN SPACE | EXISTING SIGNAL |
| PROP. PAVEMENT MARKING LINE (YELLOW CENTERLINE) | PROP. CONCRETE MEDIAN / SIDEWALK | |
| PROP. PAVEMENT MARKING LINE (DASH) | PROP. ALL-WEATHER COAT | |

CITY OF *Alexandria* VIRGINIA

DUKE STREET
IN MOTION



Duke Street BRT
Curb Features
Option 1

PROJECT NO.
XXXXXXX

DATE
FEBRUARY 2023

SCALE: 1" = 20'

DESIGNED BY:

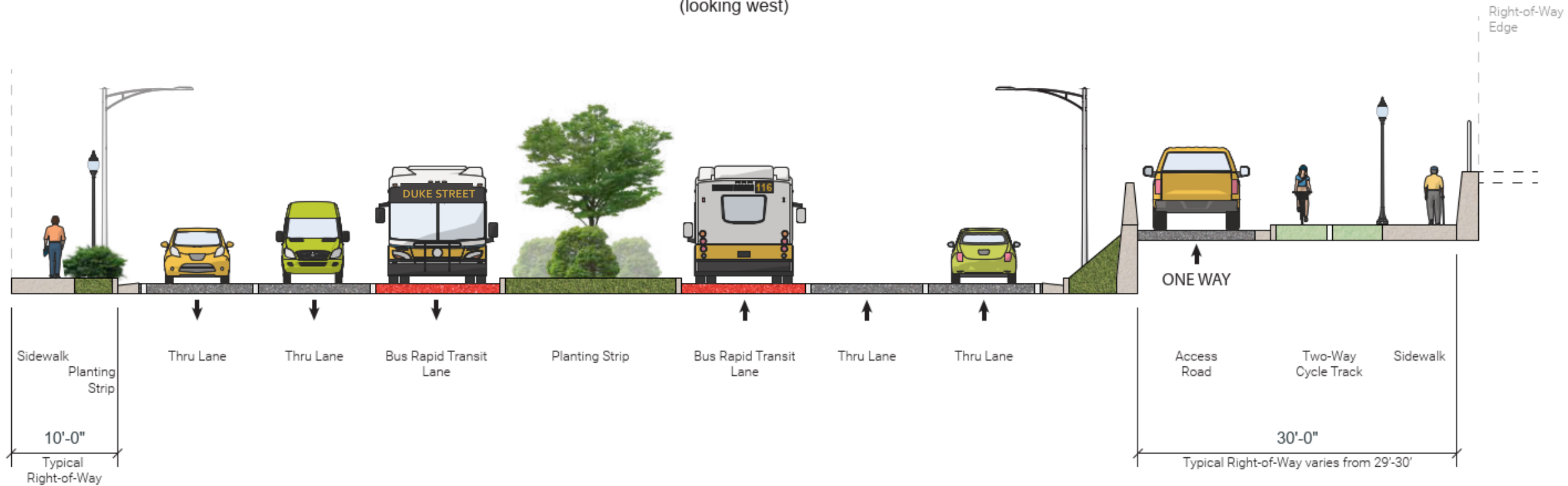
DRAWN BY:

SHEET NO.
1-5

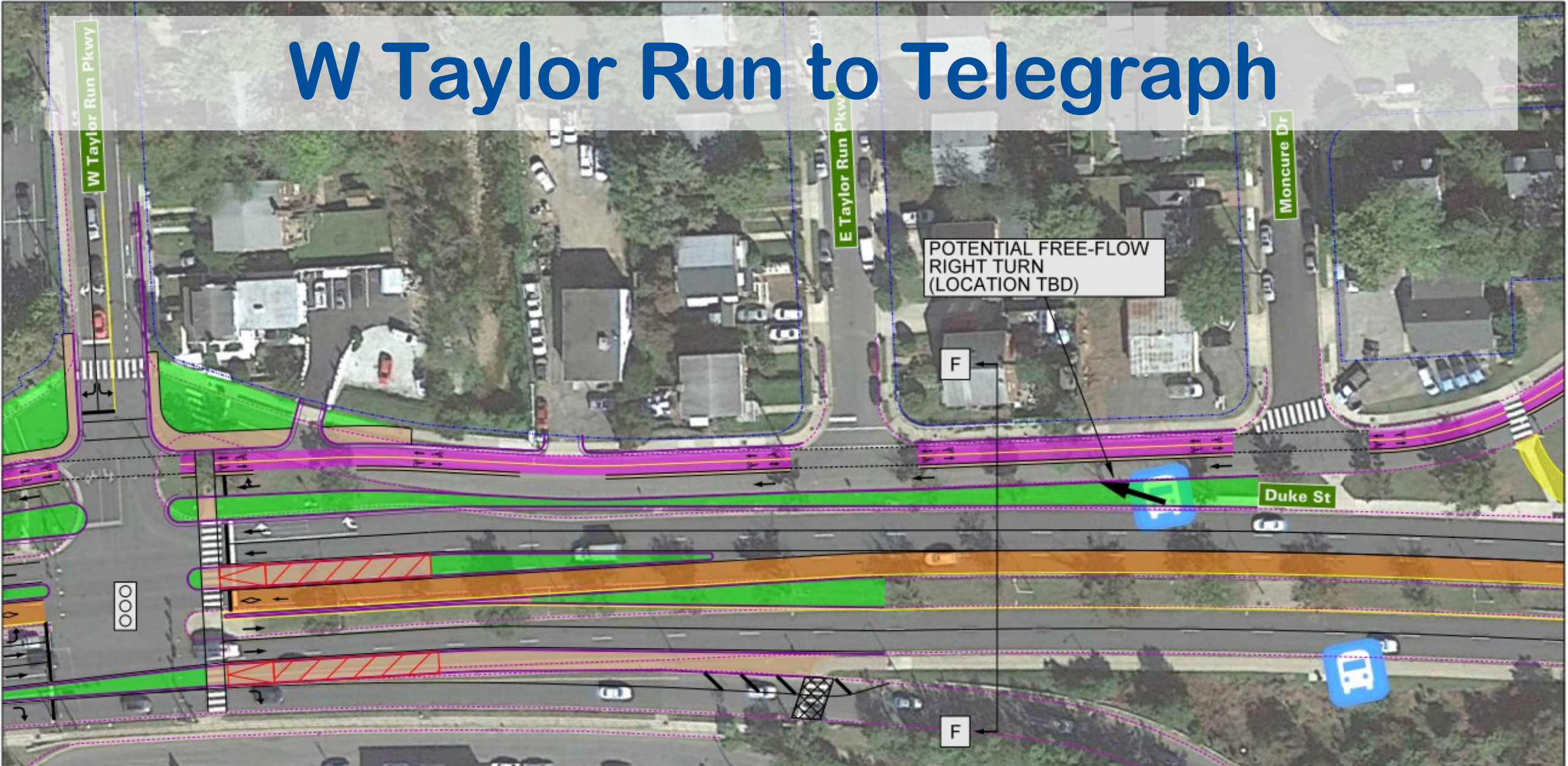
SCALE

Roth to W. Taylor Run

Section E-E Roth to W. Taylor Run (looking west)



W Taylor Run to Telegraph



CONCEPTUAL

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

- PROP. CURB
- PROP. CURB AND GUTTER
- EX. FACE OF CURB
- PROP. PAVEMENT MARKING LINE (SOLID)
- PROP. PAVEMENT MARKING LINE (YELLOW CENTERLINE)
- PROP. PAVEMENT MARKING LINE (DASH)
- EX. RIGHT-OF-WAY

- PROP. DEDICATED BUS LANE
- PROP. BUS LANE / TURN LANE
- PROP. BIKE LANE
- PROP. GREEN SPACE
- PROP. CONCRETE MEDIAN / SIDEWALK
- PROP. SHARED USE PATH

- DEMO
- PROPOSED BUS STATION
- PROPOSED SIGNAL
- EXISTING SIGNAL



Duke Street BRT Curb Features Option 1

CITY OF ALEXANDRIA

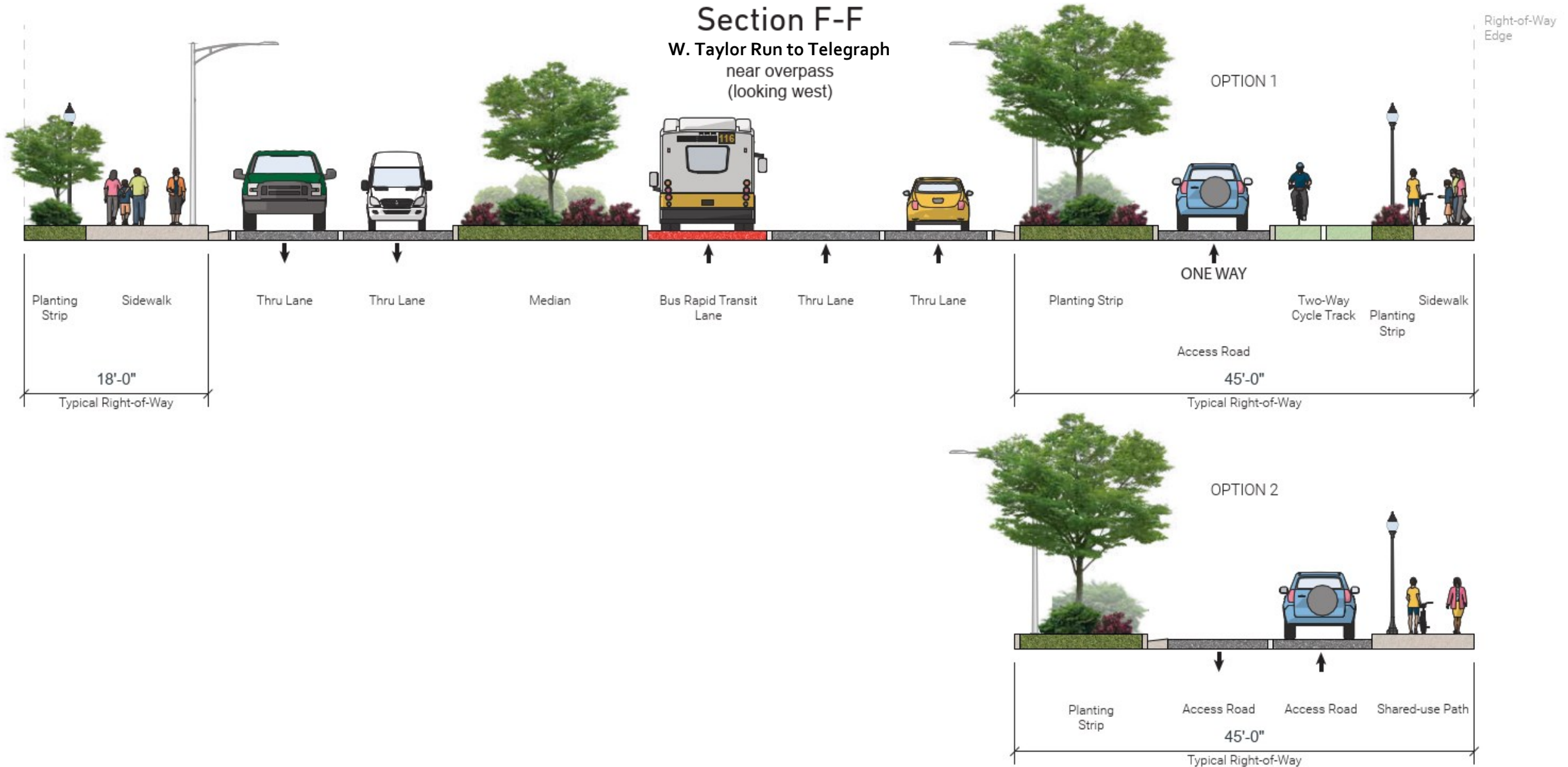
VIRGINIA

PROJECT NO.
XXXXXXX
DATE
FEBRUARY 2023
SCALE: 1" = 25'
DESIGNED BY:
DRAWN BY:
CHECKED BY:

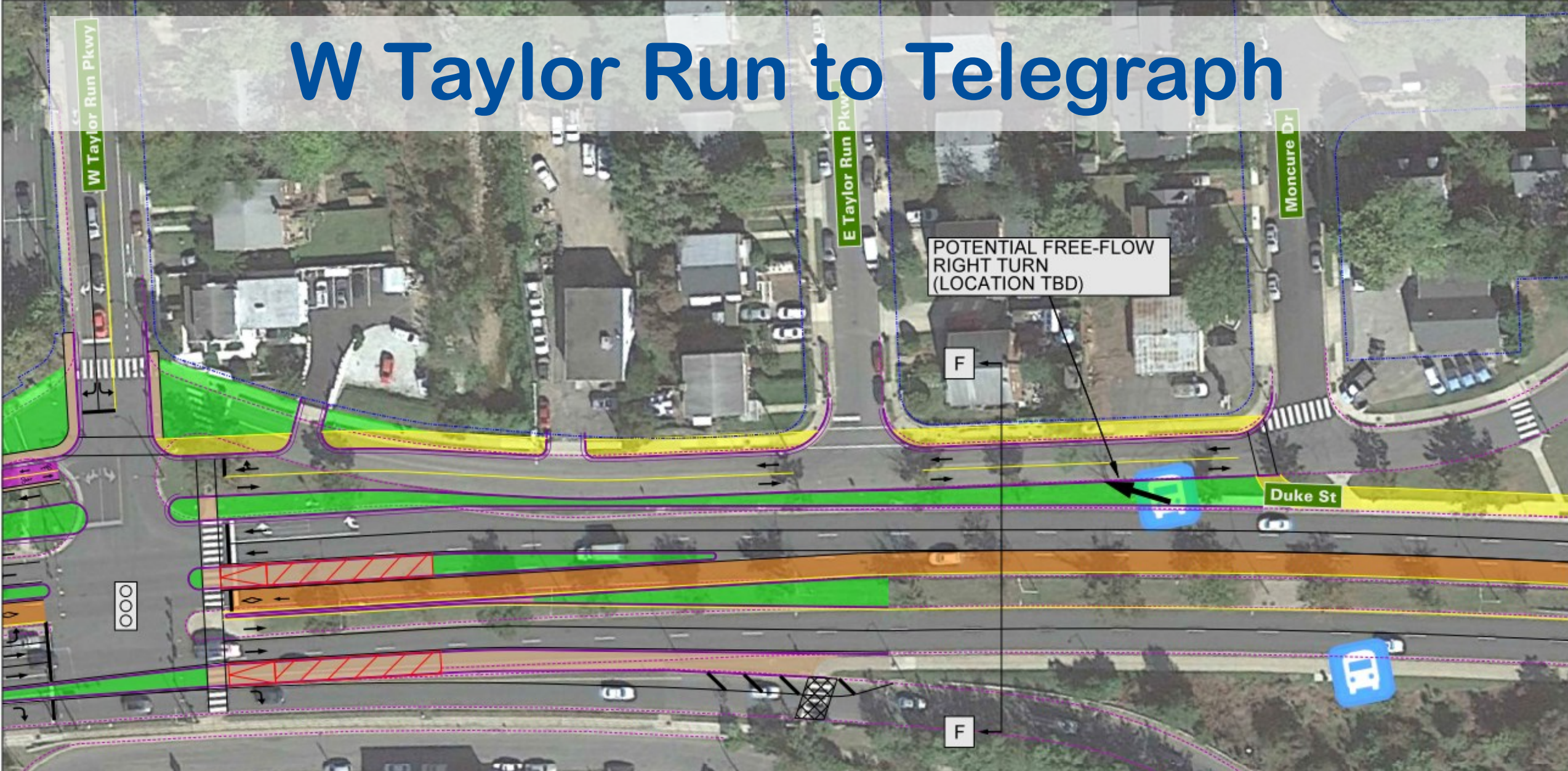
SHEET NO.
1-6



W. Taylor Run to Telegraph



W Taylor Run to Telegraph



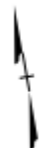
CONCEPTUAL
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
PURPOSES

LEGEND:

- PROP. CURB
- PROP. CURB AND GUTTER
- EX. FACE OF CURB
- PROP. PAVEMENT MARKING LINE (SOLID)
- PROP. PAVEMENT MARKING LINE (YELLOW CENTERLINE)
- PROP. PAVEMENT MARKING LINE (DASH)
- EX. RIGHT-OF-WAY

- PROP. DEDICATED BUS LANE
- PROP. BUS LANE / TURN LANE
- PROP. BIKE LANE
- PROP. GREEN SPACE
- PROP. CONCRETE MEDIAN / SIDEWALK
- PROP. SHARED USE PATH

- DEMO
- PROPOSED BUS STATION
- PROPOSED SIGNAL
- EXISTING SIGNAL



Duke Street BRT Curb Features Option 2

CITY OF ALEXANDRIA

VIRGINIA

PROJECT NO.
XXXXXXX
DATE
FEBRUARY 2023
SCALE: 1" = 25'
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SHEET NO.
2-6

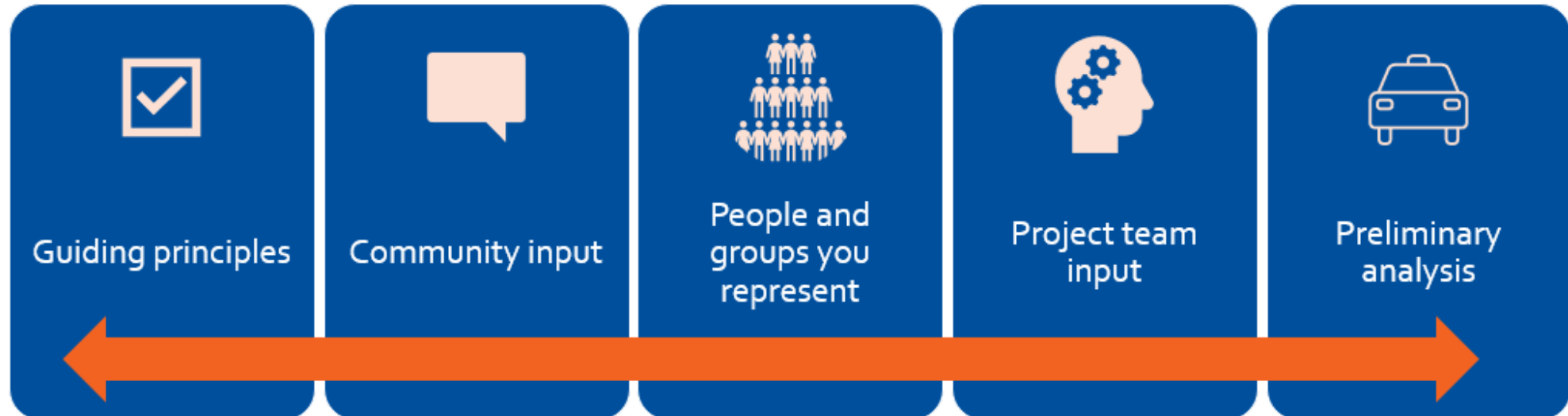


Curb Features AG Discussion

Guiding Questions

- What does the AG think about the options shown?
- Are there other approaches we should be considering?
- What priorities does the AG (and those the AG members represent) have for the curb feature elements in constrained sections?

CONSIDERATIONS



Three easy ways to join the conversation with PollEverywhere.

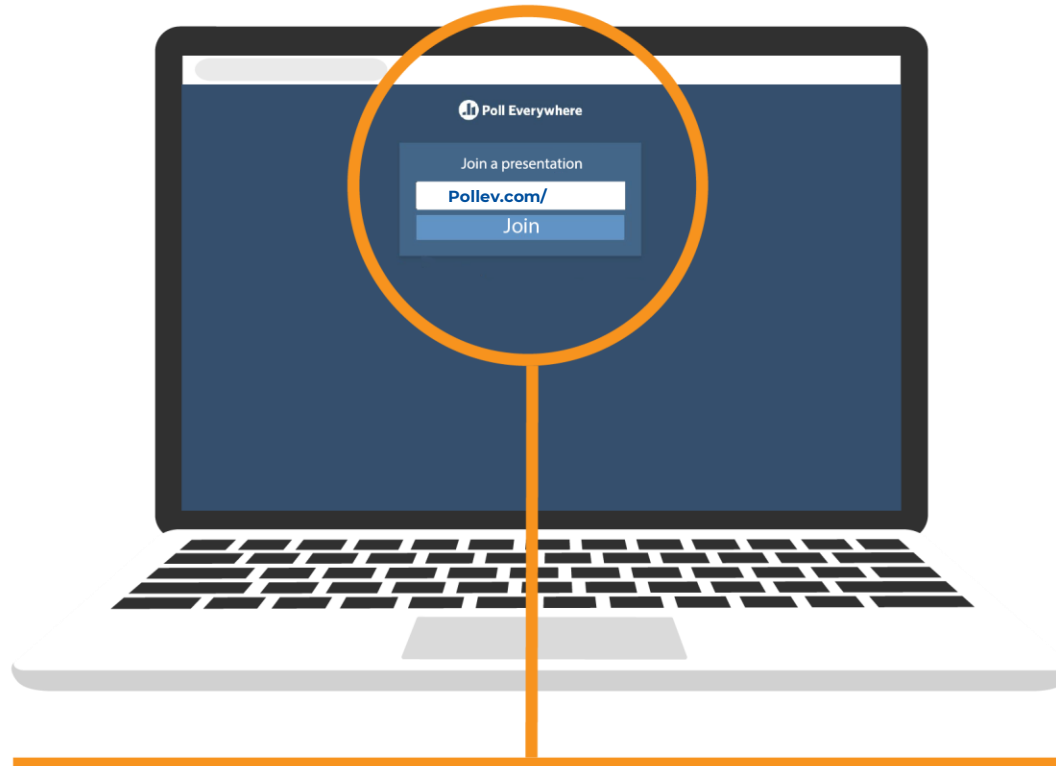
APP



Download the free PollEverywhere App and enter "INPUT" into the field reading: "PollEv.com/username"

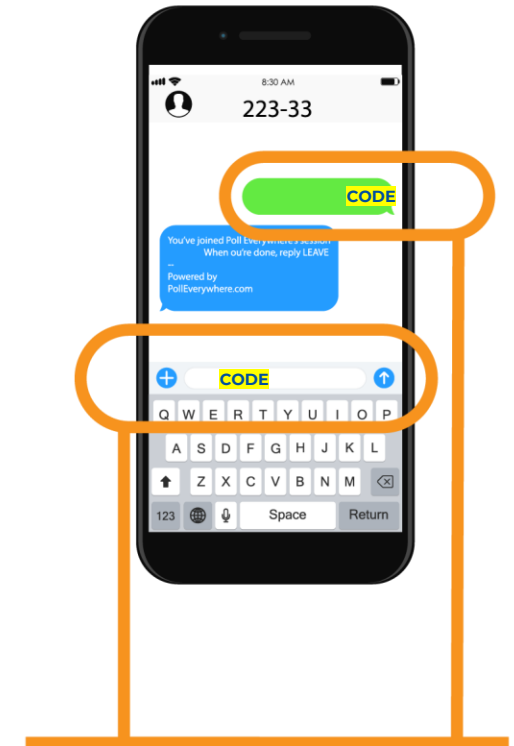


WEB



Go to Pollev.com/INPUT to enter the poll via web browser.

TEXT



Text "INPUT" to 223-33 to enter the poll via text.

**not all questions are available via text*

Is it more important to have...

a separate
bicycle/scooter space and
walking space but have
less green space

more green space but a
shared bike and walking
space

Where space is limited on the north side of Duke Street, should we consider:

combining space for walkers and bikers

separating space for the walkers and bikers
on the south side of Duke Street. This means
bikers would have to cross Duke Street to
access the separated biking space.

In areas with service roads, should we consider a shared space for bikes and cars?

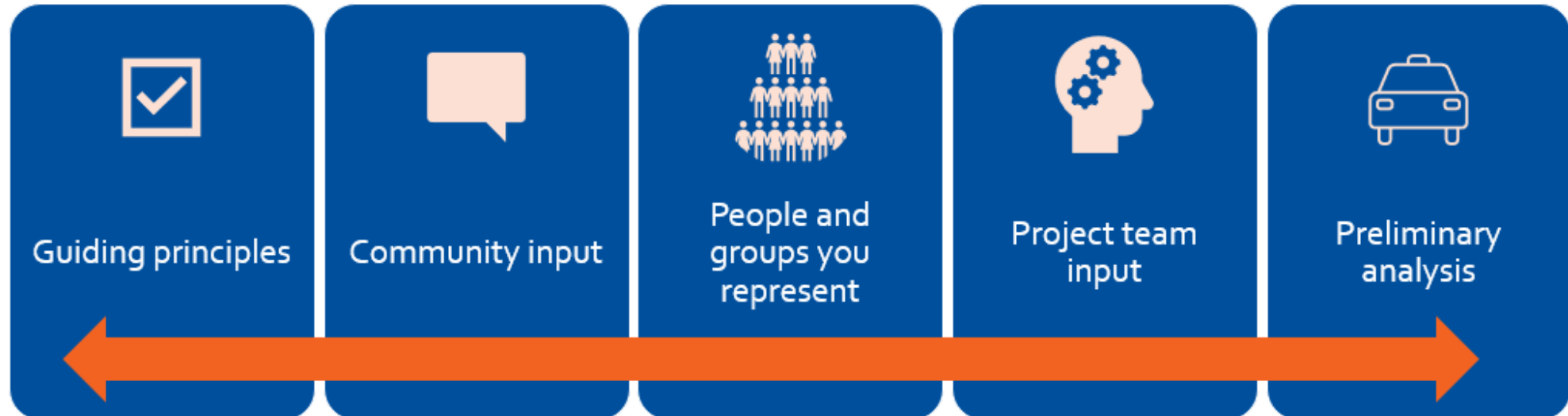
Yes

No

Guiding Questions

- What does the AG think about the options shown?
- Are there other approaches we should be considering?
- What priorities does the AG (and those the AG members represent) have for the curb feature elements in constrained sections?

CONSIDERATIONS



The background image shows two buses on a city street. The bus in the foreground is a white and blue articulated bus, number 21804, with a license plate 216-9181. It has 'DASH' written on its side. The bus in the background is a smaller white bus, number 510, with a license plate 803, also with 'DASH' on its front. The entire image is covered with a semi-transparent orange filter.

Status Update & Next Steps

Current Status



Analysis & Design



Focused
Engagement



Hello Duke Street



Next Steps





Approval of Meeting Minutes from December



Thank you!

alexandriava.gov/DukeInMotion