

DISTRICT DEPARTMENT OF TRANSPORTATION

K Street Transitway Project

U.S. Commission of Fine Arts (CFA) Submission

July 7, 2022

K STREET TRANSITWAY PROJECT

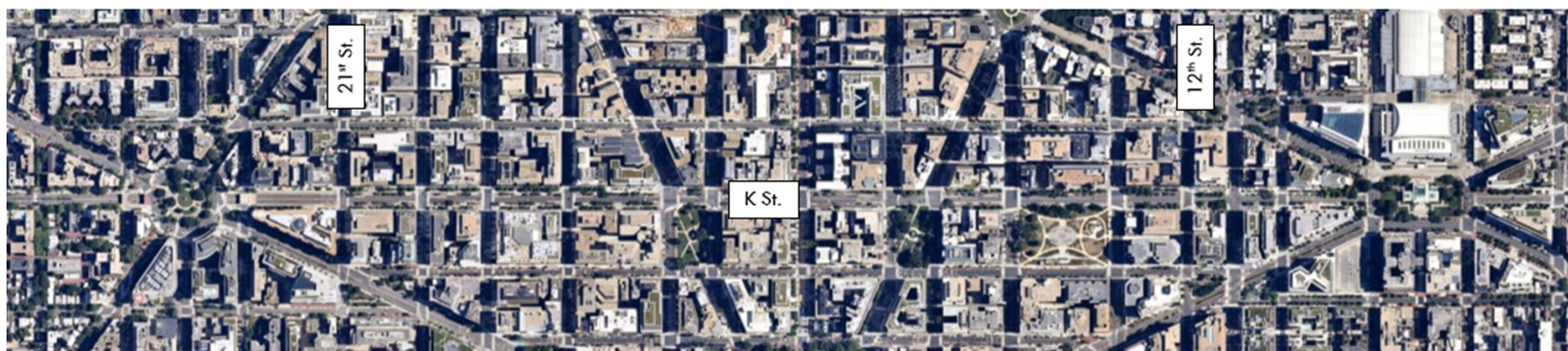


Outline

- Project Aerial
- Project Overview/Update
- Transit Improvements
- Bicycle Facilities
- Streetscape Enhancements
- Viewshed Renderings



Project Aerial/Project Limits



- 21st Street NW to 12th Street NW
- 3 parks
- Dense commercial development
- Transit use
- High pedestrian activity

Existing Conditions



K Street NW at 16th Street NW, looking east



K Street NW at 16th Street NW, looking west

Existing Conditions



K Street NW at 16th Street NW, NW corner, looking west



K Street NW at 16th Street NW, SE corner, looking east

Project Overview

Typical Section

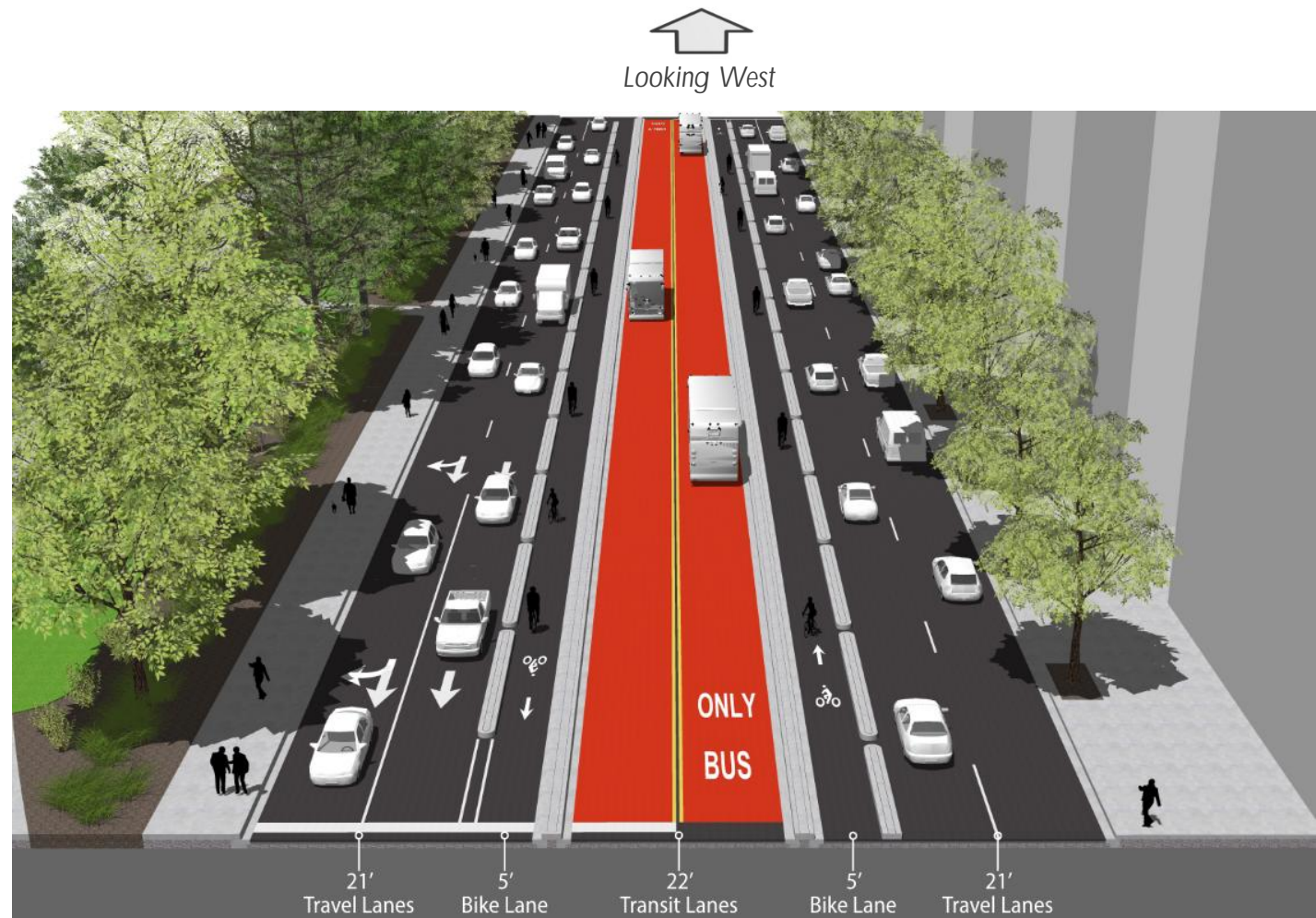
- Remove service lanes
- 2 transit lanes
- 2 bicycle lanes
- 4 travel lanes
- Loading/parking on some blocks



Project Overview

Typical Section

- Narrow medians at parks
- Maintain number of lanes
- Trees will not be in the medians at the parks



Project Overview

History

- December 2009: Environmental Assessment and Finding of No Significant Impact (FONSI)
- 2014-2017: Union Station to Georgetown (USGT) Transportation Improvements Project Environmental Assessment (EA)
- 2018: Project Identified as Mayor's Initiative
- March 2020: Consulting Parties Invited to participate in the Section 9B DDOT initiated consultation
- Preliminary Design Completed
- April 2021: Final Design Initiated

FINDING OF NO SIGNIFICANT IMPACT
for
K STREET
24th Street NW to 7th Street NW
WASHINGTON, D.C.

DDOT Project Number: 1102(027)/SR028A/DC-29

The Federal Highway Administration (FHWA), in conjunction with the District Department of Transportation (DDOT), proposes modifications to K Street to create a transportation corridor that enhances the mobility, throughput capacity, and economic vitality within the Washington Central Business District. In accordance with the National Environmental Policy Act (NEPA), the FHWA and DDOT prepared an Environmental Assessment (EA) released for agency and public review on September 29, 2009. A public hearing was held on October 14, 2009. Subsequently, a Final EA has been prepared to fully address all public comments received.

The proposed modifications to K Street are intended to accommodate multimodal travel for automobiles, bicycles, and pedestrians that currently uses the corridor. The proposed modifications achieve the following objectives:

- Provide efficient travel along K Street for all transportation modes, including automobiles, bicycles, and pedestrians;
- Eliminate roadway infrastructure deficiencies along K Street and improve safety for all K Street users; and
- Construct a "Green Street" using environmentally sustainable design.

PREFERRED ALTERNATIVE

Following the public comment period, the Preferred Alternative, Transitway, as the Preferred Alternative, two-lane median transitway between 20th Street and 12th Street, and two 10-foot general purpose travel lanes in each direction on K Street between 20th Street and 12th Street. The transitway would include raised platforms. The transitway would be located on the raised platforms opposite the platforms would be constrained by reduced roadway width. Square parks. Between 12th Street and

TYPICAL SECTIONS



Dimensions are preliminary and subject to change.

KStreet
TRANSITWAY

A New
Streetcar
with Multimodal
Benefits

d. DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

BUS BENEFITS

Moves More People



SIDEWALK 9,000/HR



**DEDICATED TRANSIT LANES
4,000-8,000/HR**



**TWO-WAY PROTECTED BIKEWAY
7,500/HR**



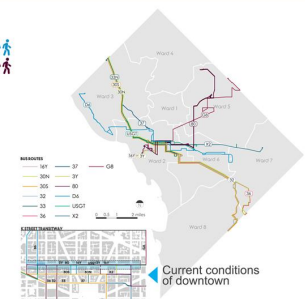
**PRIVATE MOTOR VEHICLES
600-1,600/HR**

*Source: National Association of City Transportation Officials

KStreet
TRANSITWAY

A New
Streetcar
with Multimodal
Benefits

d. DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR



The transitway is designed to have 13+ bus routes with 55 buses/hour per direction in peak period.

Project Overview

Public Outreach

- October 2009: Public Hearing/Comment Period for K Street: 24th Street NW to 7th Street NW EA
- November 2019: Open House at Farragut Square
- April 2020: Preliminary Design Information Shared
- TODAY: 65% Design Information Shared
- Ongoing: Stakeholder Meetings



**OPEN HOUSE**

A New Streetscape with Multimodal Benefits

EASIER, FASTER, MORE RELIABLE TRANSIT

The K Street Transitway will redesign K Street NW from 12th Street NW to 21st Street NW adding dedicated bus lanes, protected bike lanes, and a new streetscape.

LEARN ABOUT DDOT'S DESIGN AND SHARE YOUR IDEAS FOR K STREET NW.

WHEN: Thursday, November 14, 2019

TIME: 11am - 2pm and 4pm - 6pm

WHERE: Farragut Square

GETTING TO THE MEETING: Visit www.goDCgo.com for more about transportation options.

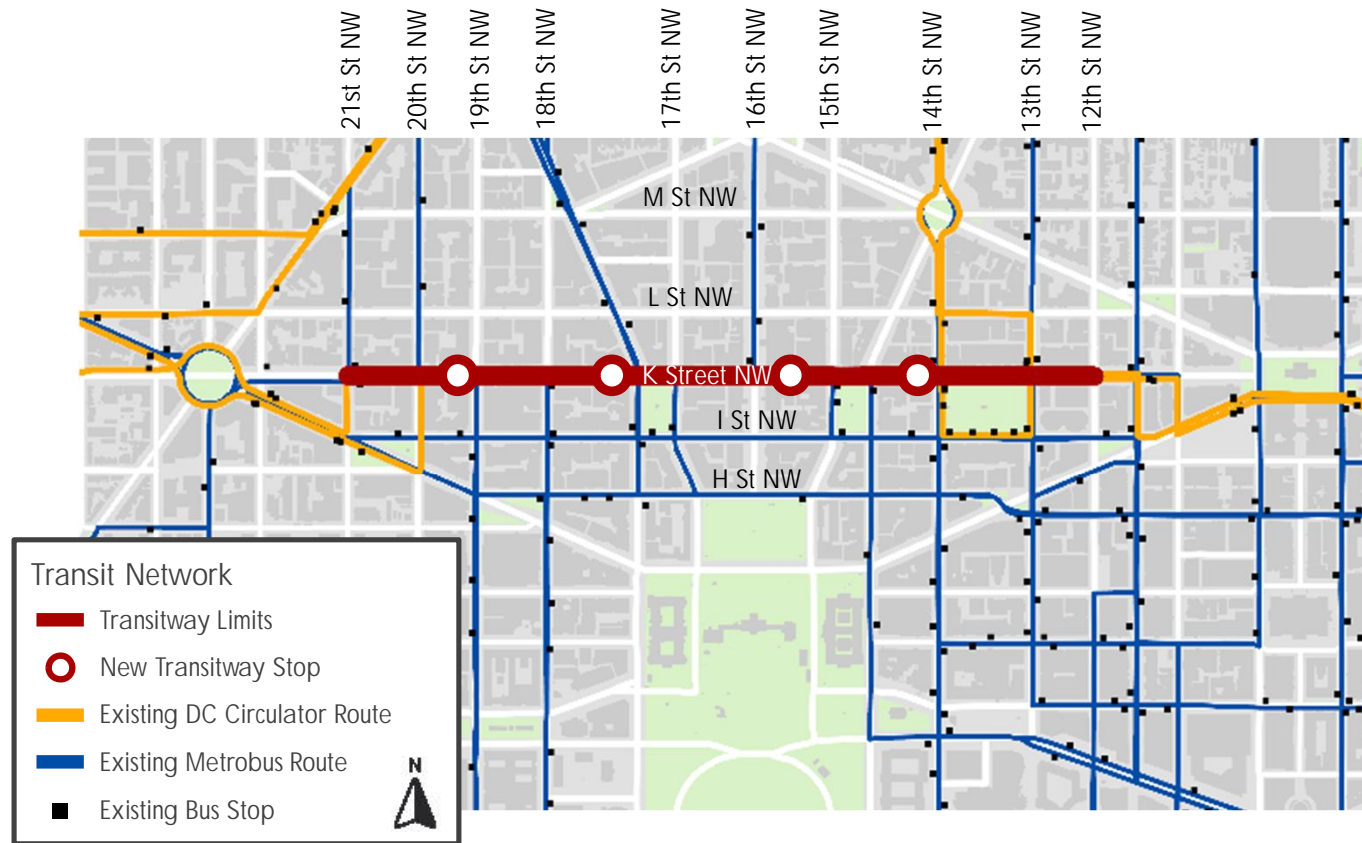
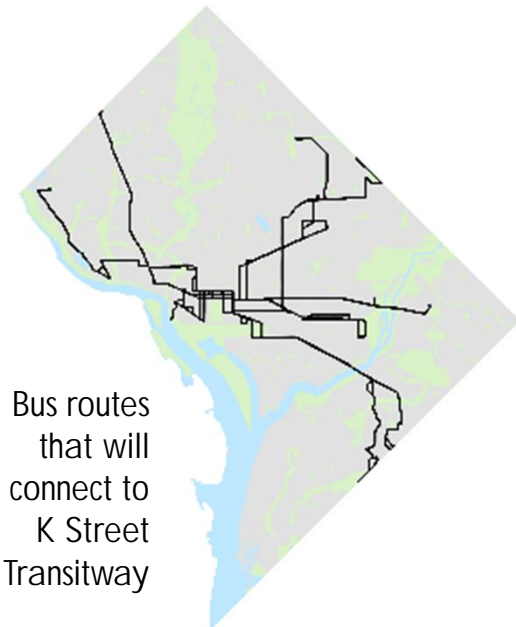
30% DESIGN
Fall 2019 to Spring 2020

FINAL DESIGN
Spring 2020 to Spring 2021

CONSTRUCTION
Early 2022 to Winter 2024

Transit Improvements *Network Connections*

- 4 New Stops
- 11 Metrobus and Circulator Routes



Median Transit Improvements

Facilities

- 11' wide platform
- 10" curb for near-level boarding
- Accommodate 2 articulated buses
- Granite Curbs
- Red detectable warning surface at platform edge
- Poured-In-Place Concrete
 - Light Grey Pedestrian Zone
 - Dark Grey Amenity Zone
- Treepits with Iron Grate Covers



Transit Improvements

Access and Operations

- Accessible pedestrian signals
- Median tips
- Detectable warning surfaces
- Transit signals



Pedestrian and Bicycle Improvements

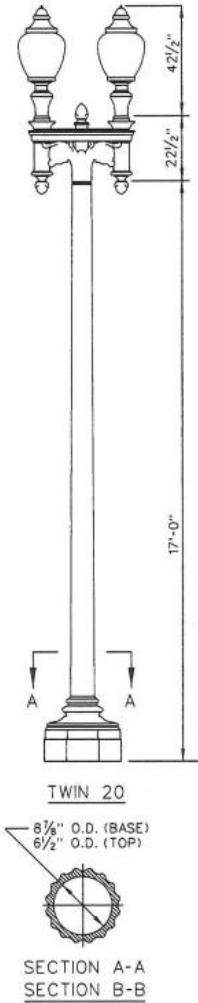
Facilities

- High-visibility crosswalks
- Improved sidewalks
- Protected bike lanes
 - One-way cycle tracks alongside the transitway
- Intersections
 - Two-stage turn boxes
 - High-visibility crossing markings
 - Exclusive bike signal phases (at select locations where conflicts exist)



Streetlights

- Streetlight (Twin 20s) will be near the sidewalk and in the medians.
- Almost 100 streetlights (Twin 20s) will be installed along this one-mile corridor.

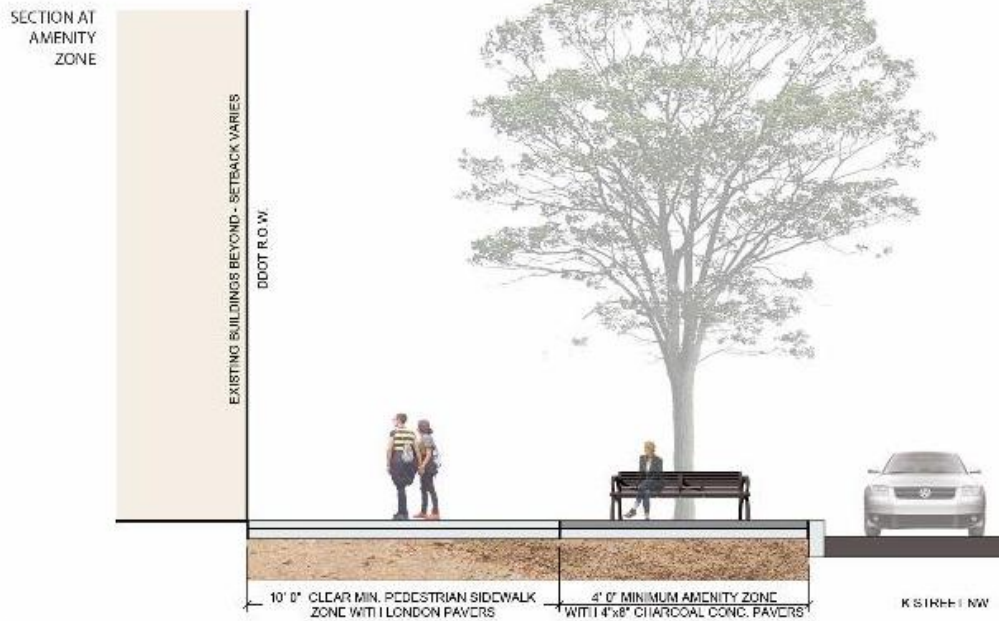


Sidewalk Streetscape Enhancements

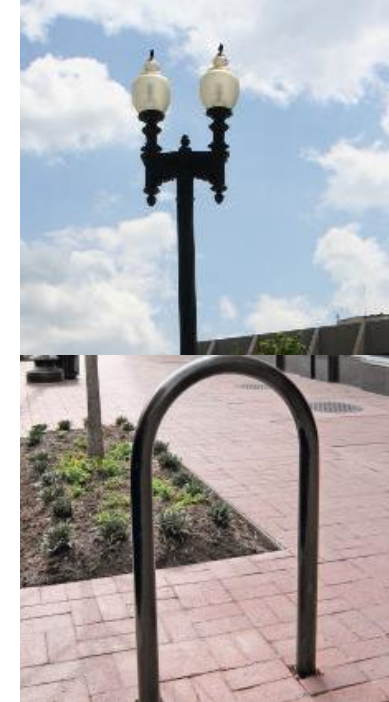
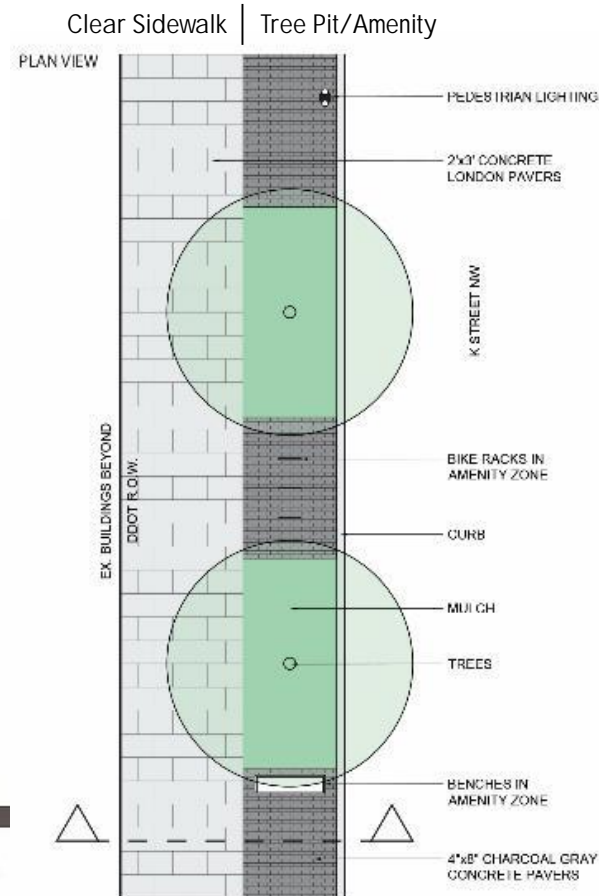
Landscaping

Sidewalk Zones

- Sidewalk Clear Zone
- Tree Pit Amenity Zone
- Building Amenity Zone

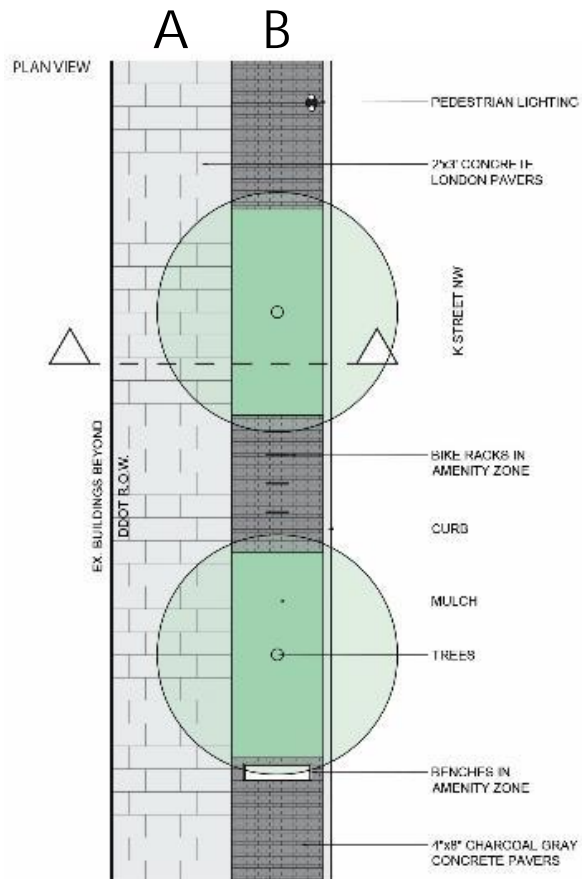


Note: All benches will face building



Sidewalk Streetscape Enhancements

Landscaping



A Paving Materials Sidewalk Zone



London Pavers: 2'x3' Concrete Pavers

B Paving Materials Tree Pit Amenity Zone



Amenity Zone Paving
4"x8" Charcoal Gray Concrete Pavers

Streetscape Enhancements

Landscaping

Proposed Street Trees



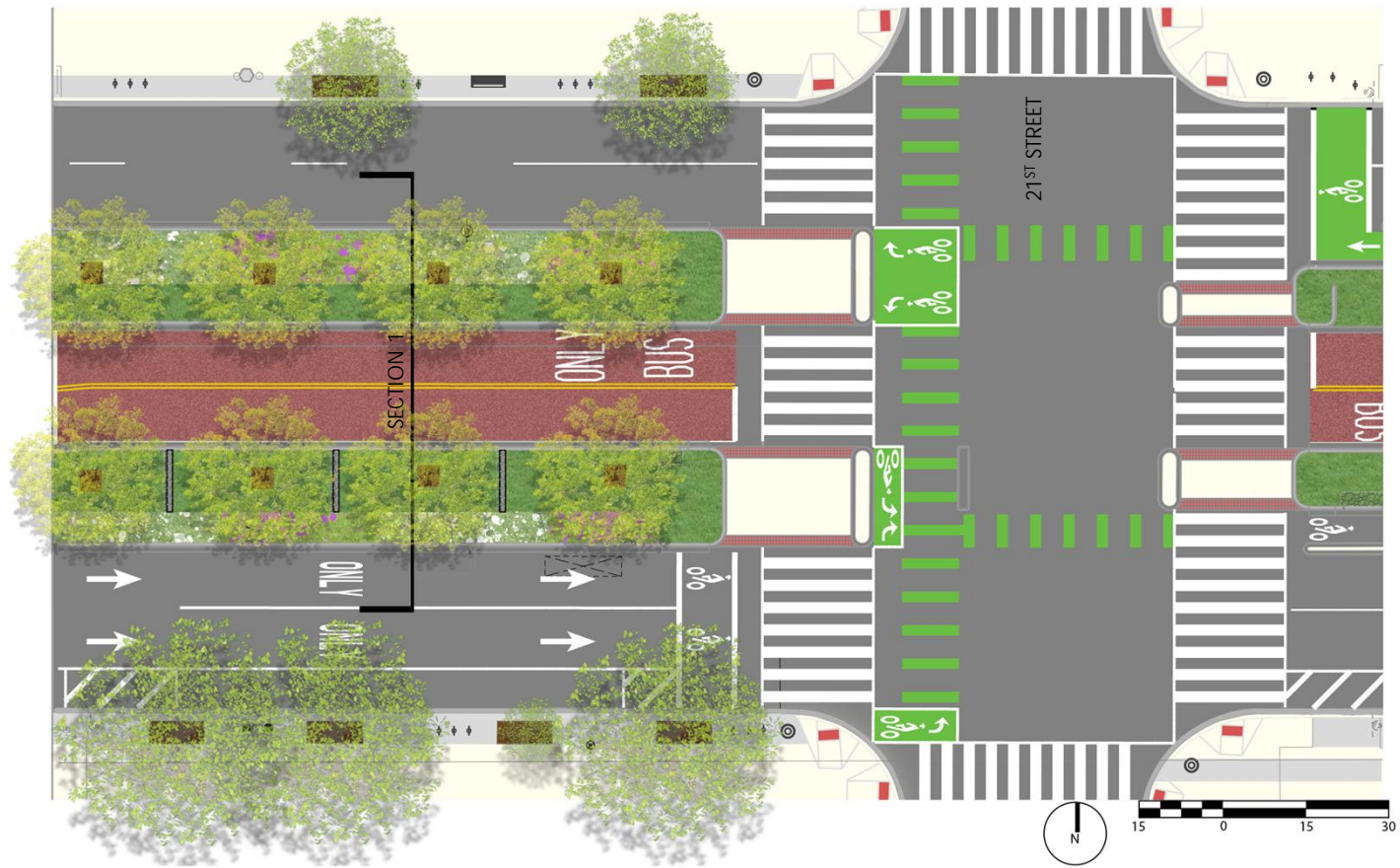
Quercus phellos –
Willow Oak

Ulmus americana 'Jefferson' –
Jefferson Elm

Zelkova serrata –
Japanese Zelkova

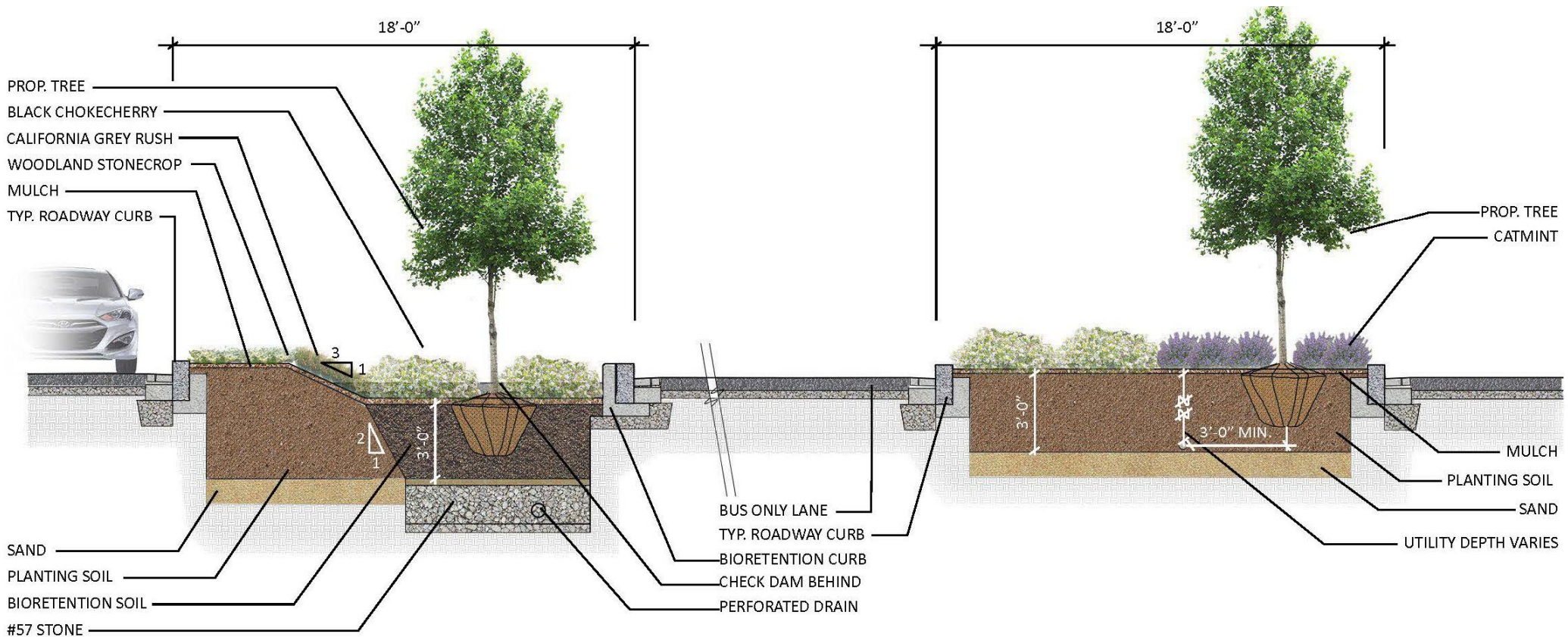
Median Streetscape Enhancement

Typical Median Illustrative Plan



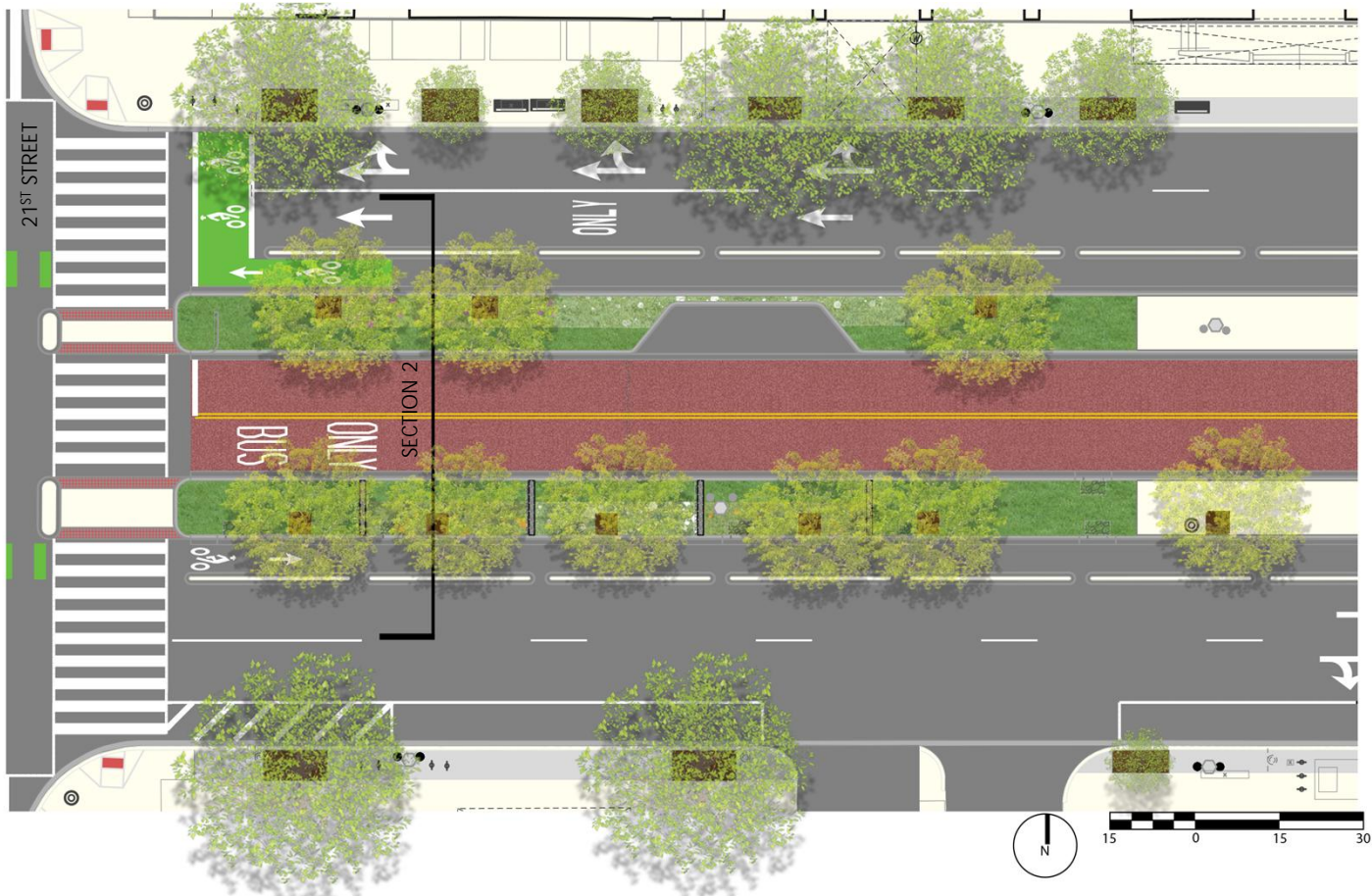
Median Streetscape Enhancement

Typical Median Planting Section 1



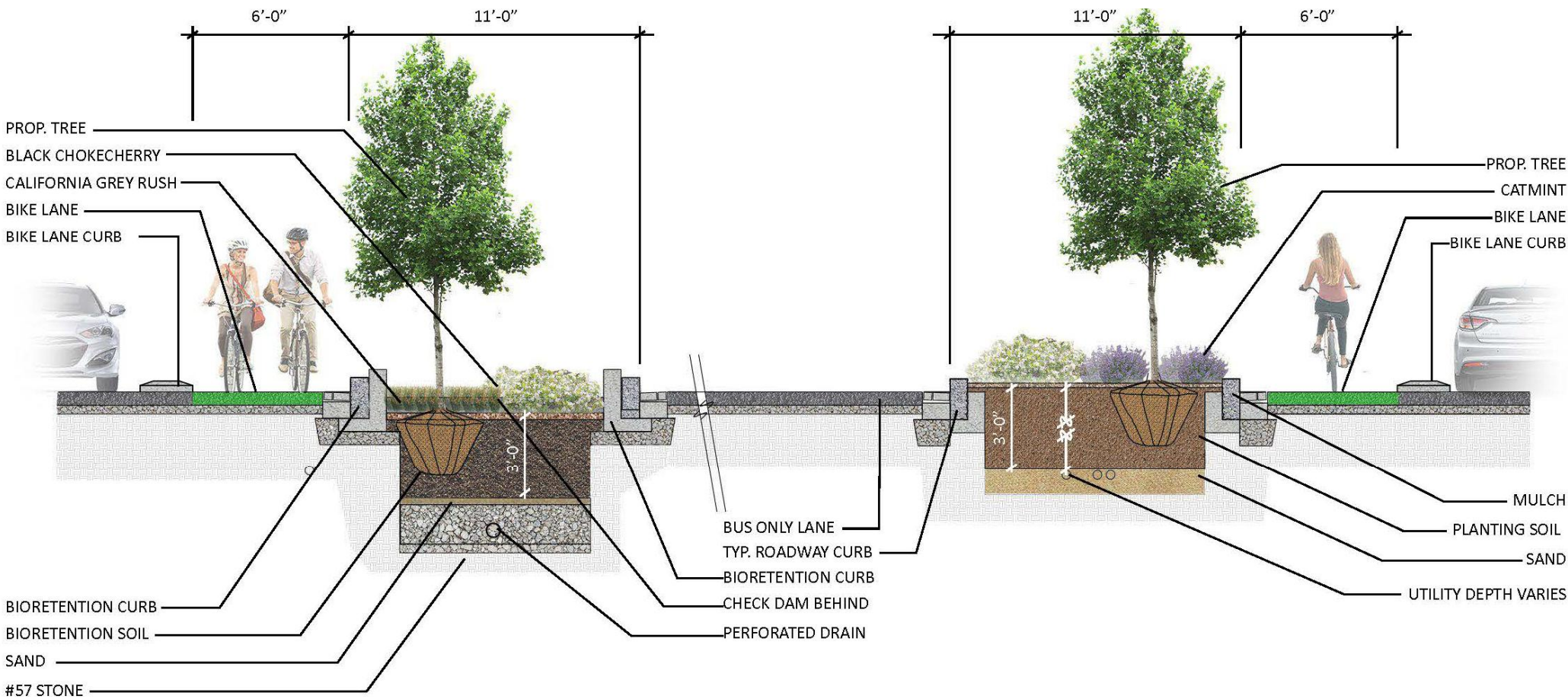
Median Streetscape Enhancement

Typical Median Illustrative Plan



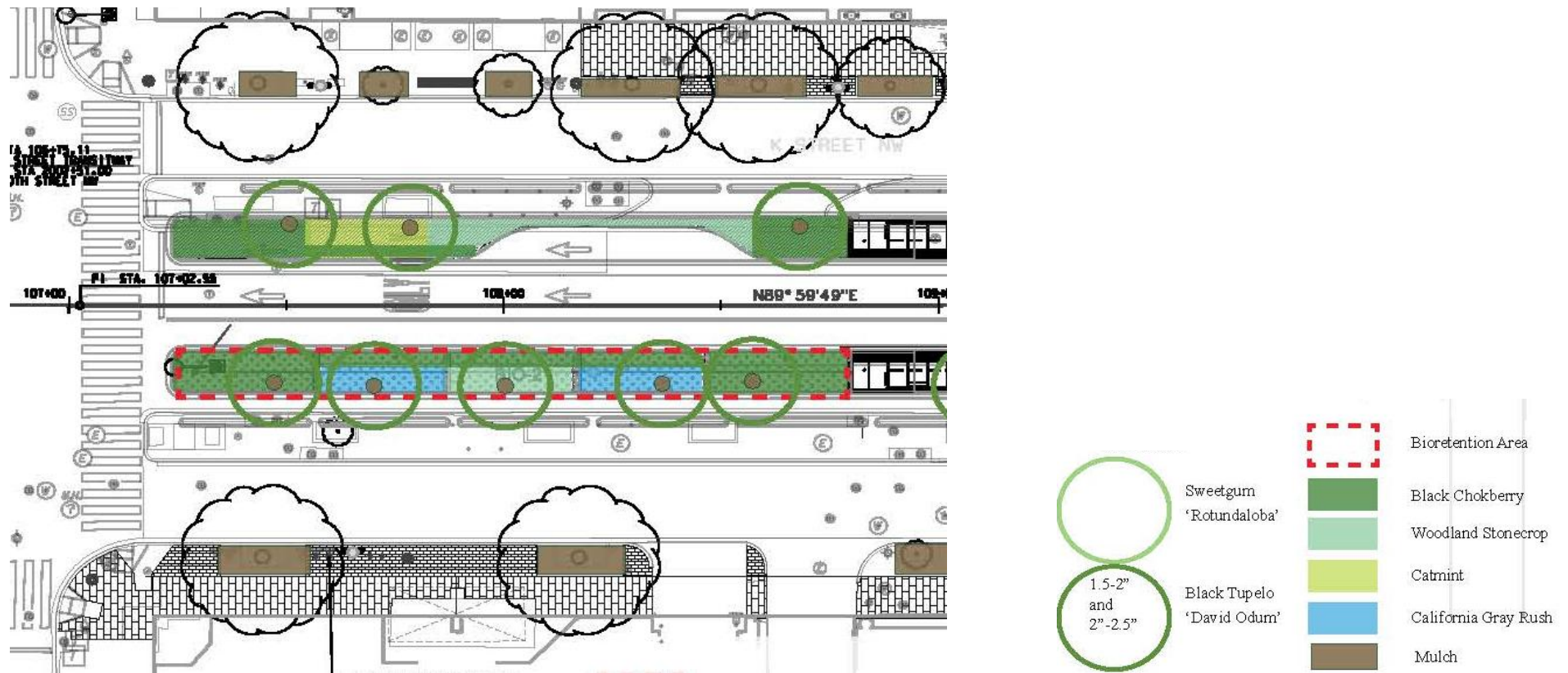
Median Streetscape Enhancement

Typical Median Planting Section 2



Median Streetscape Enhancement

Typical Median Planting Diagram



Median Streetscape Enhancements

Landscaping

Proposed Median Trees – Columnar Form



Liquidambar styraciflua
'Rotundaloba' –
Sweetgum



Nyssa sylvatica 'David
Odom' – Sweetgum

Median Planting



Chrysanthemum latifolium –
River Oats



Juncus patens –
Common Rush



Nepeta x faassenii –
Catmint



Rhus aromatica 'Gro-Low' –
Fragrant Sumac



Sedum ternatum –
Wild Stonecrop

Carnegie Library Viewshed Rendering – Existing Conditions (June 2022) (13th Street looking east)



Carnegie Library Viewshed Rendering (13th Street looking east)



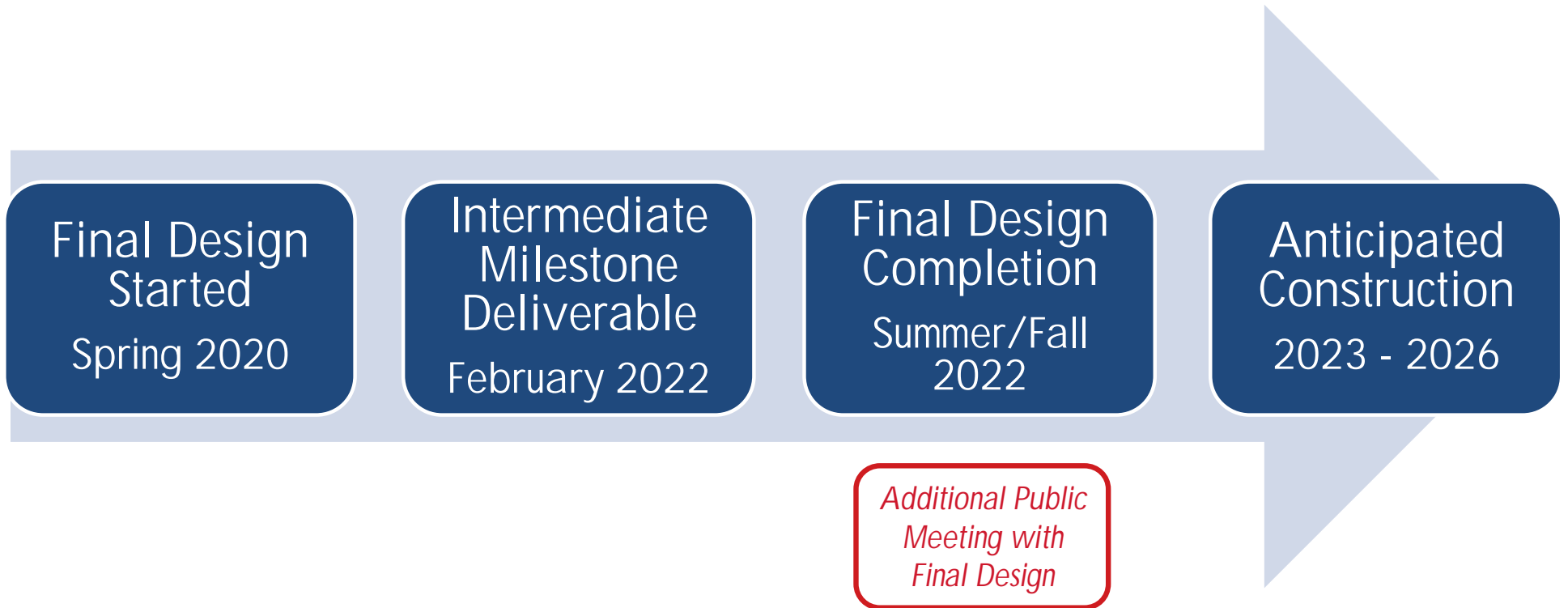
Washington Circle Viewshed Rendering – Existing Conditions (June 2022) (19th Street looking west)



Washington Circle Viewshed Rendering (19th Street looking west)



Timeline



Project Contact Information

Project Email:

- kst-transitway@jmt.com

Project Website:

- kst-transitway.ddot.dc.gov





District Department of Transportation

250 M St SE | Washington, DC 20003 | 202.673.6813

Corridor Design

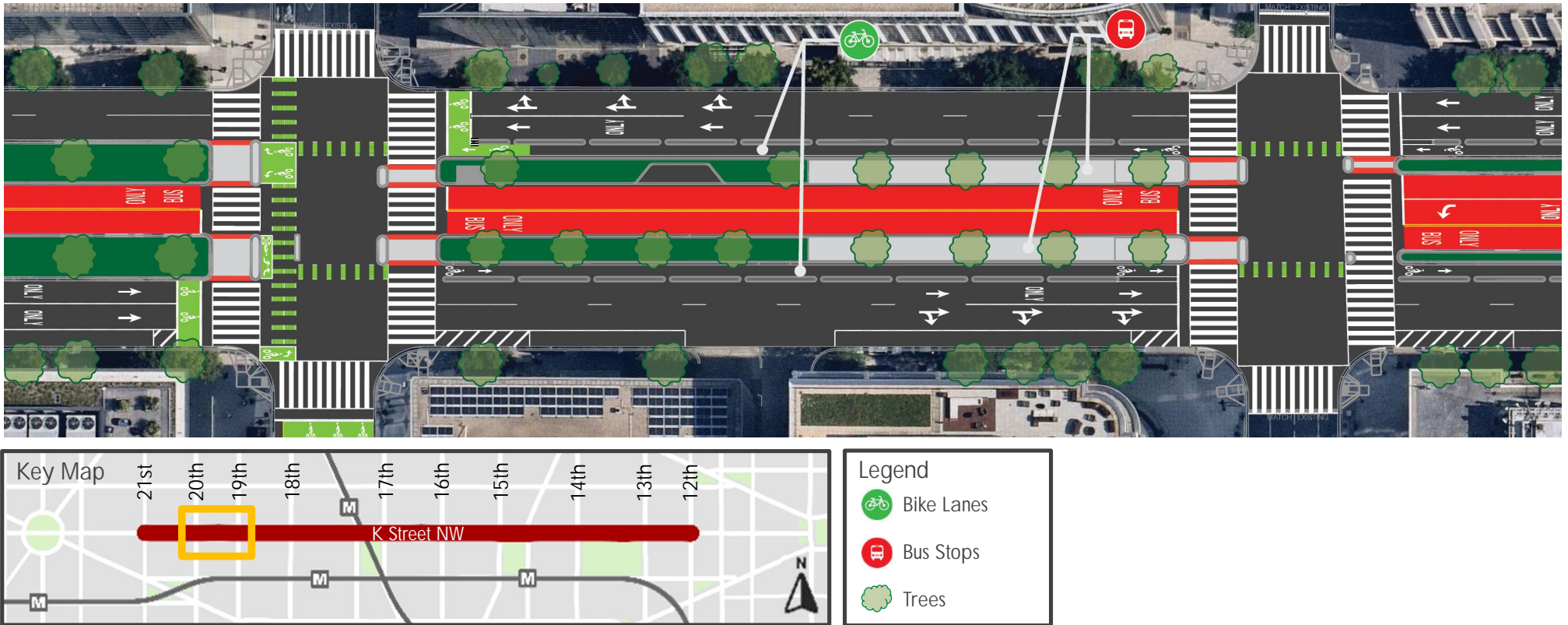
21st St NW to 20th St NW



Note: Trees illustrated in graphic above do not represent actual design plans

Corridor Design

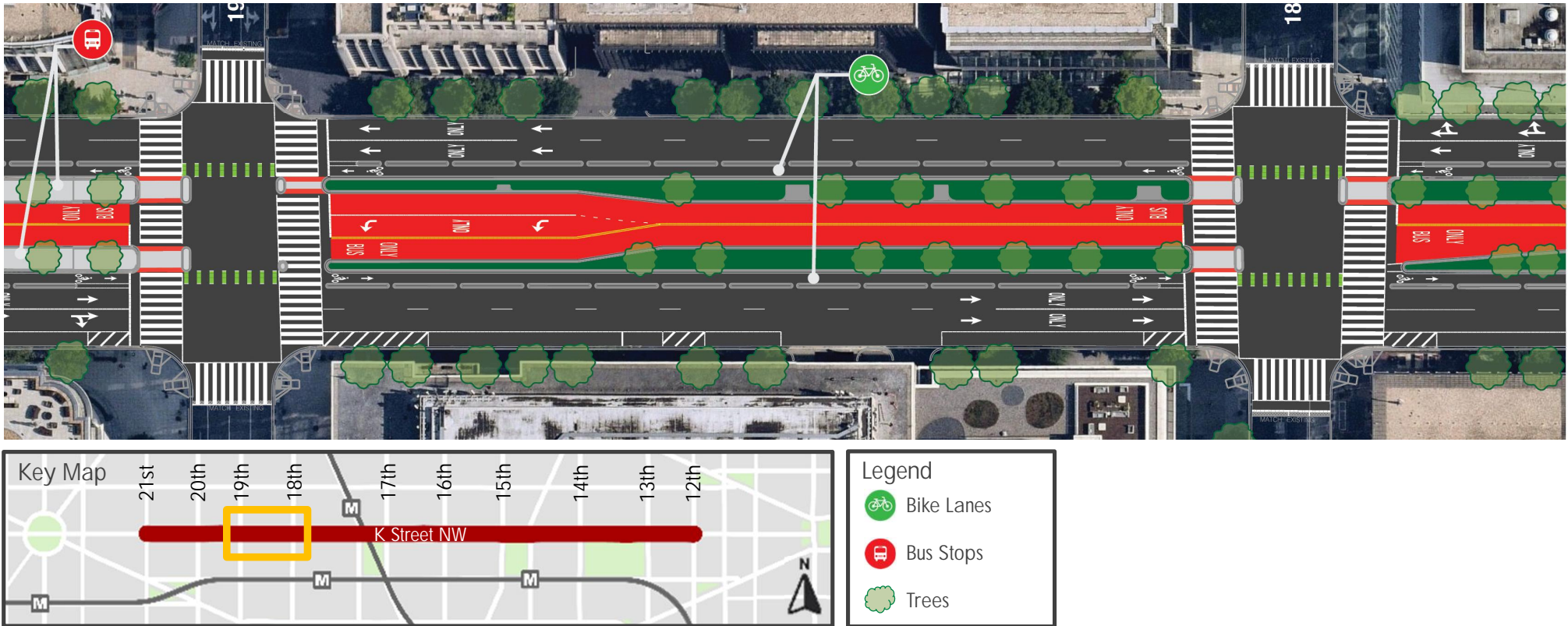
20th St NW to 19th St NW



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Corridor Design

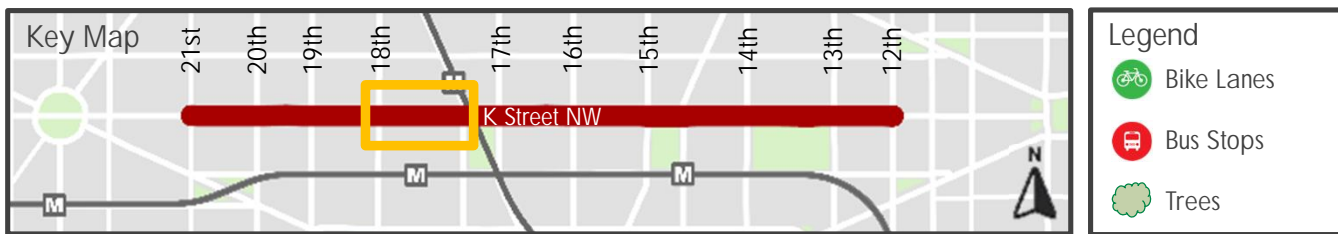
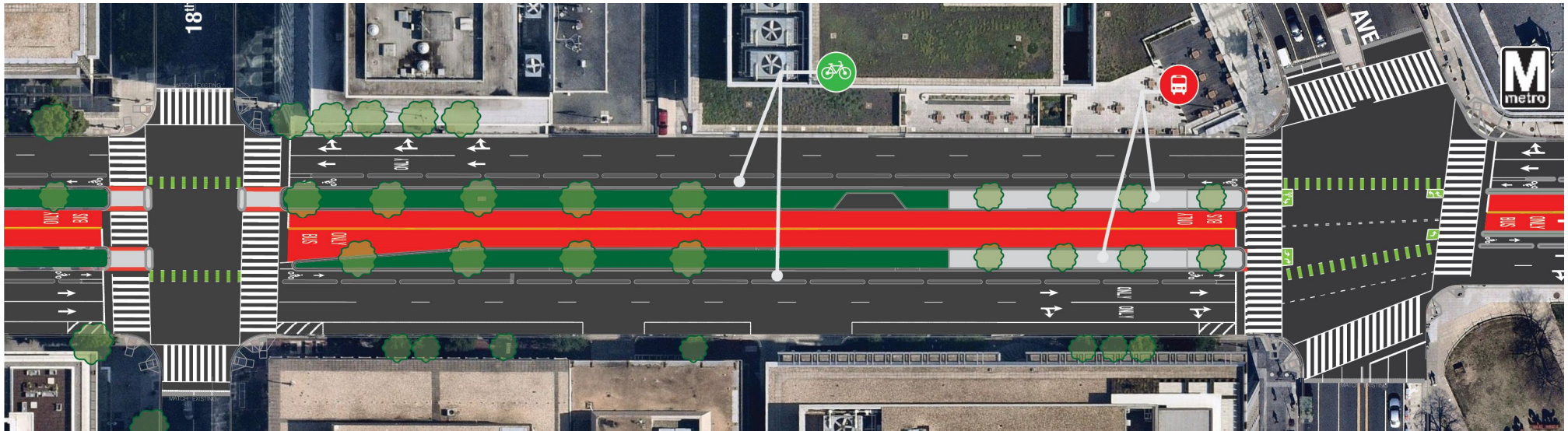
19th St NW to 18th St NW



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Corridor Design

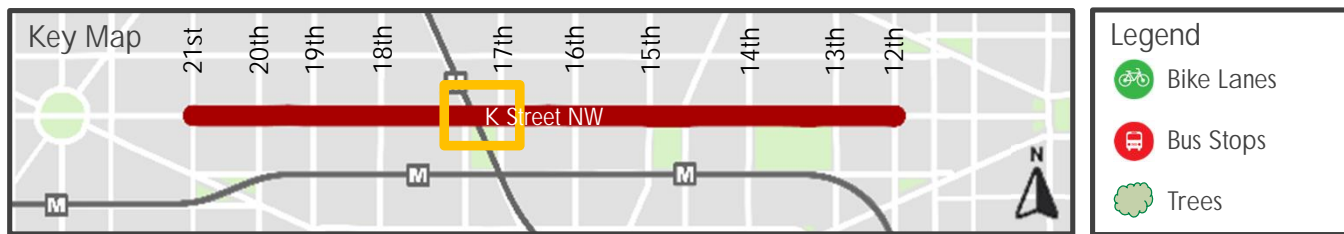
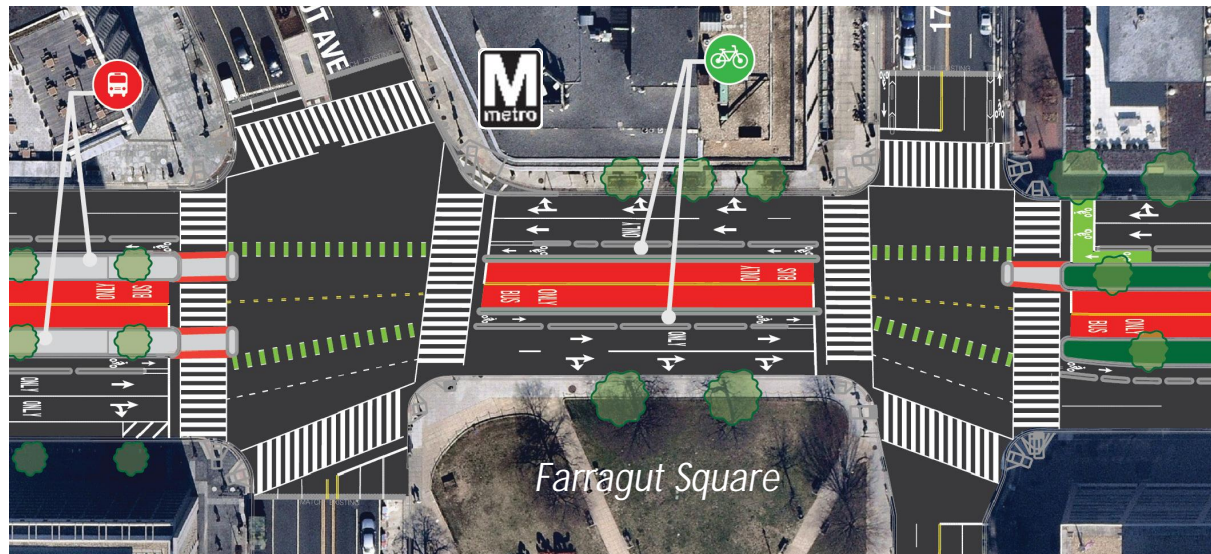
18th St NW to Connecticut Ave NW



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Corridor Design

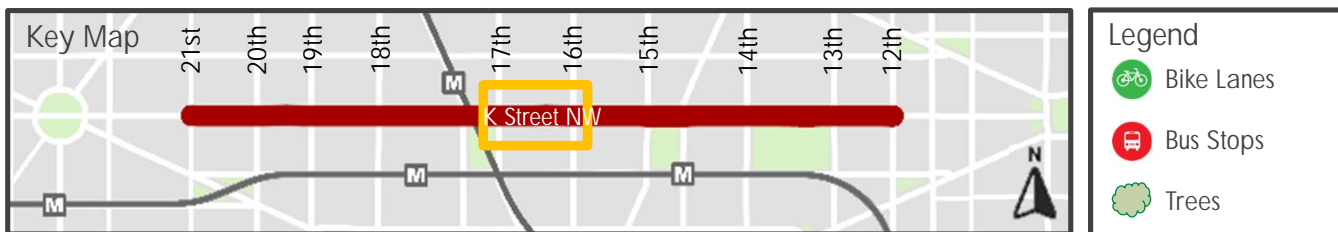
Connecticut Ave NW to 17th St NW



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Corridor Design

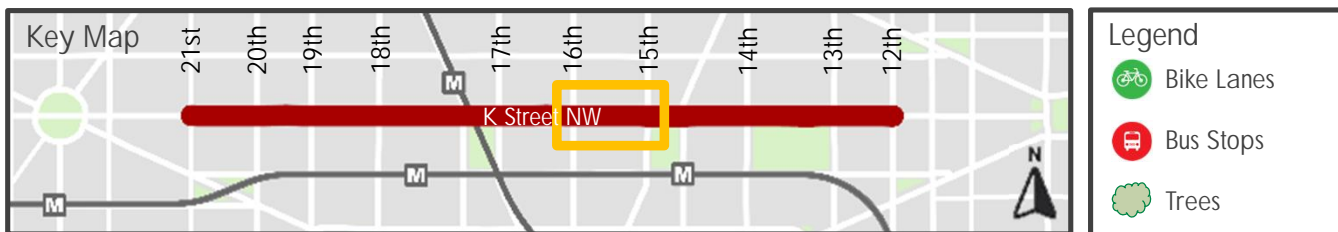
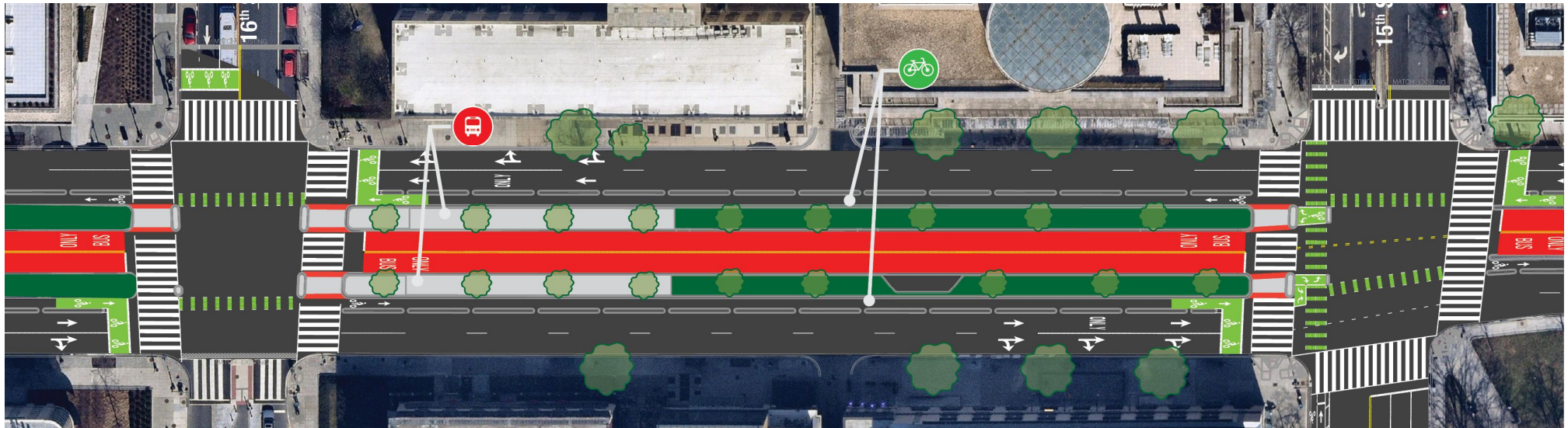
17th St NW to 16th St NW



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Corridor Design

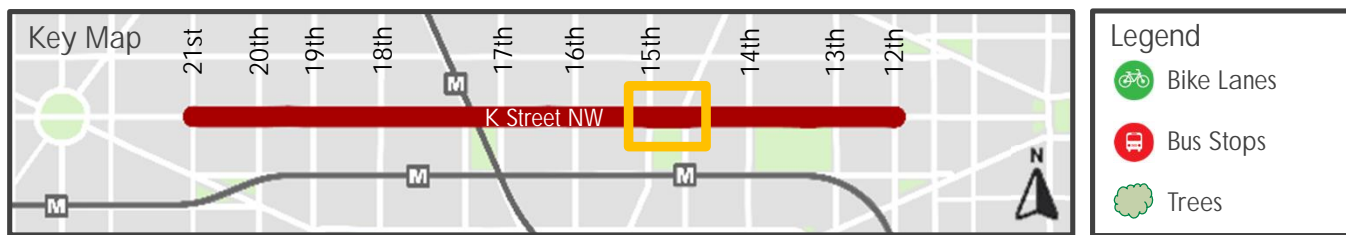
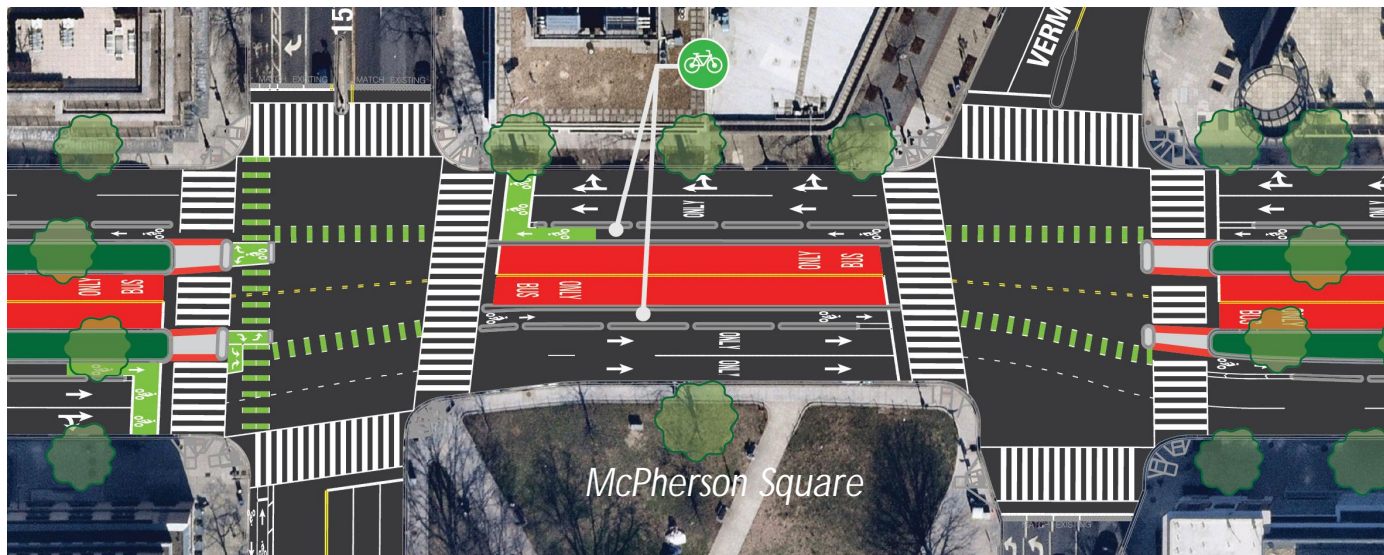
16th St NW to 15th St NW



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Corridor Design

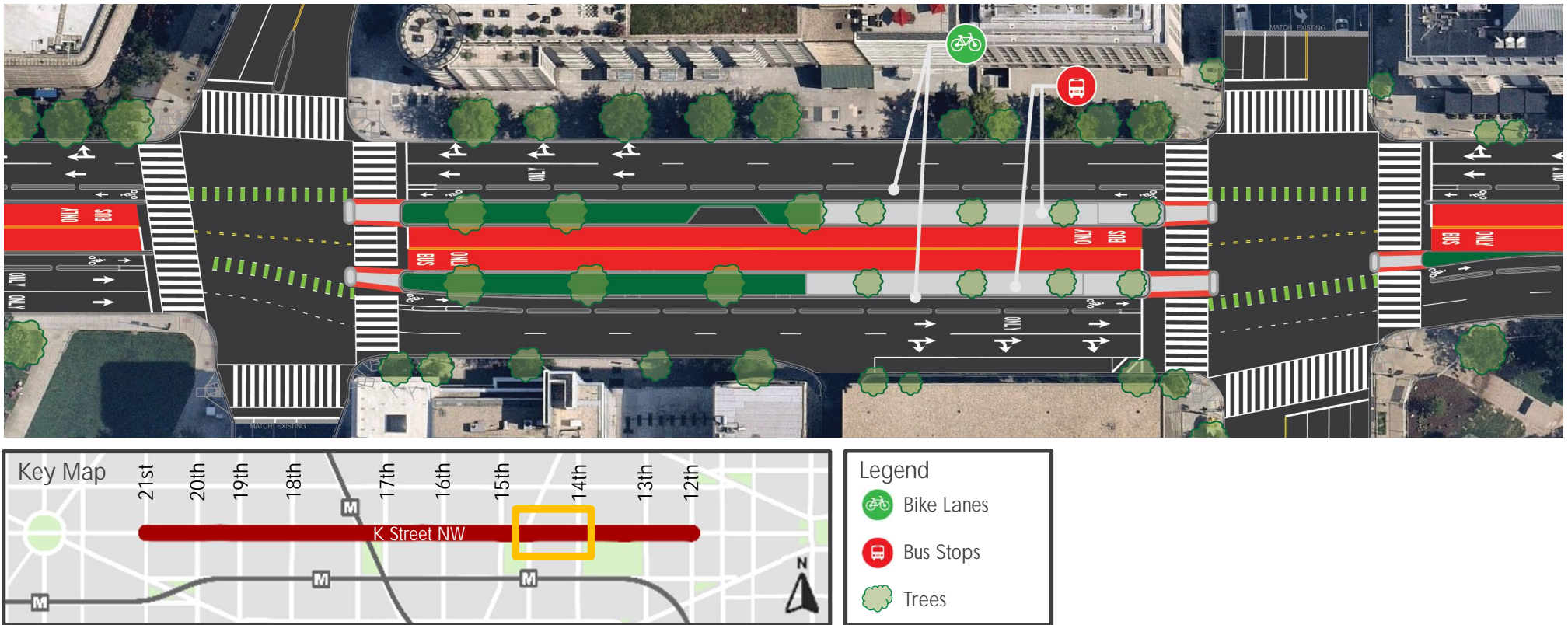
15th St NW to Vermont Ave NW



Note: Trees illustrated in graphic above do not represent actual design plans

Corridor Design

Vermont Ave NW to 14th St NW



Note: Trees illustrated in graphic above do not represent actual design plans

Corridor Design

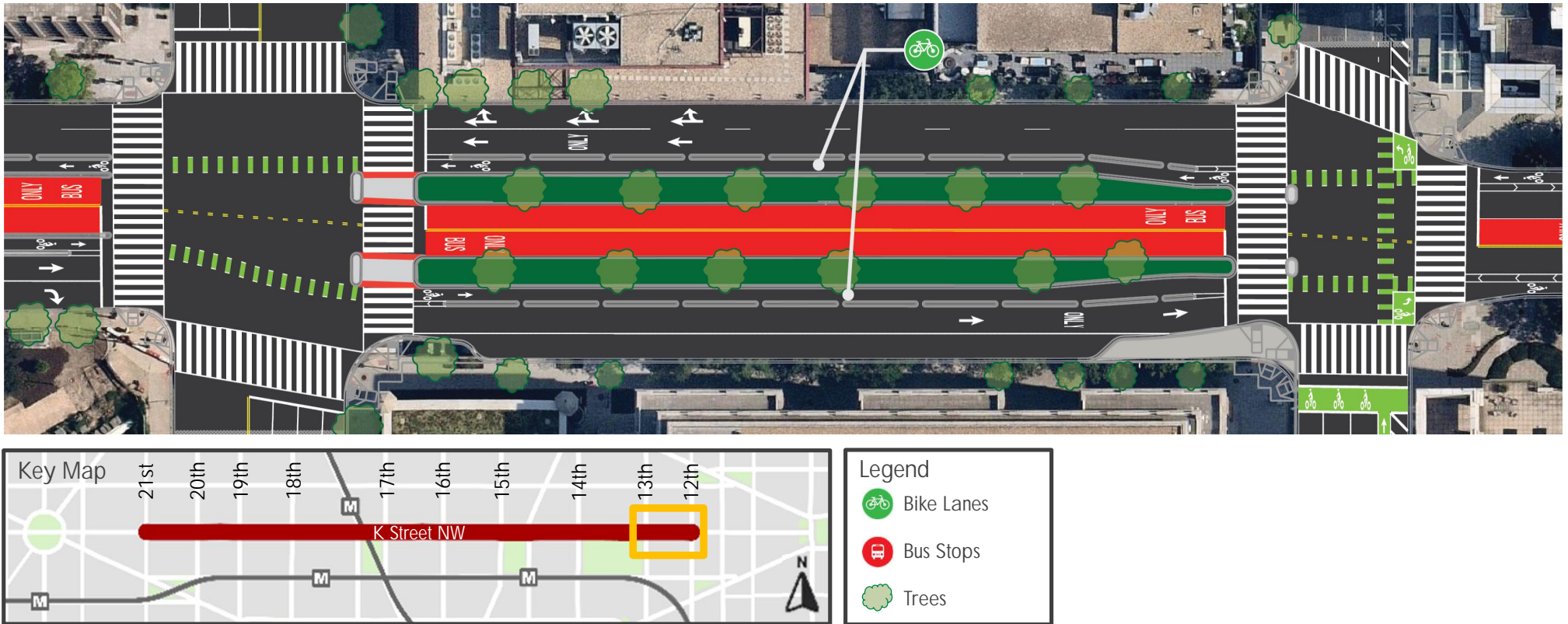
14th St NW to 13th St NW



Note: Trees illustrated in graphic above do not represent actual design plans

Corridor Design

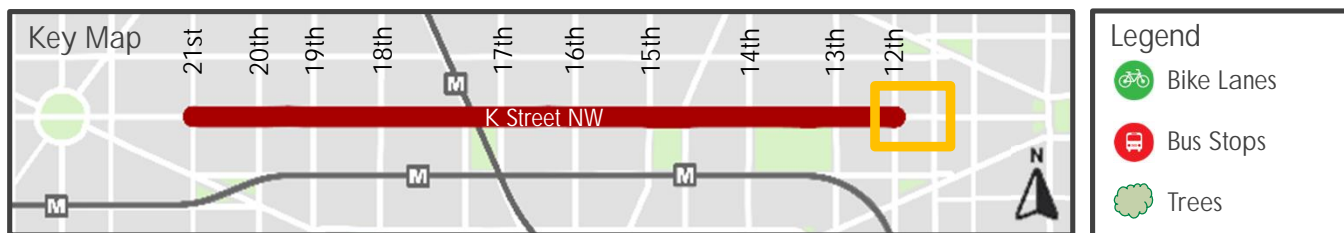
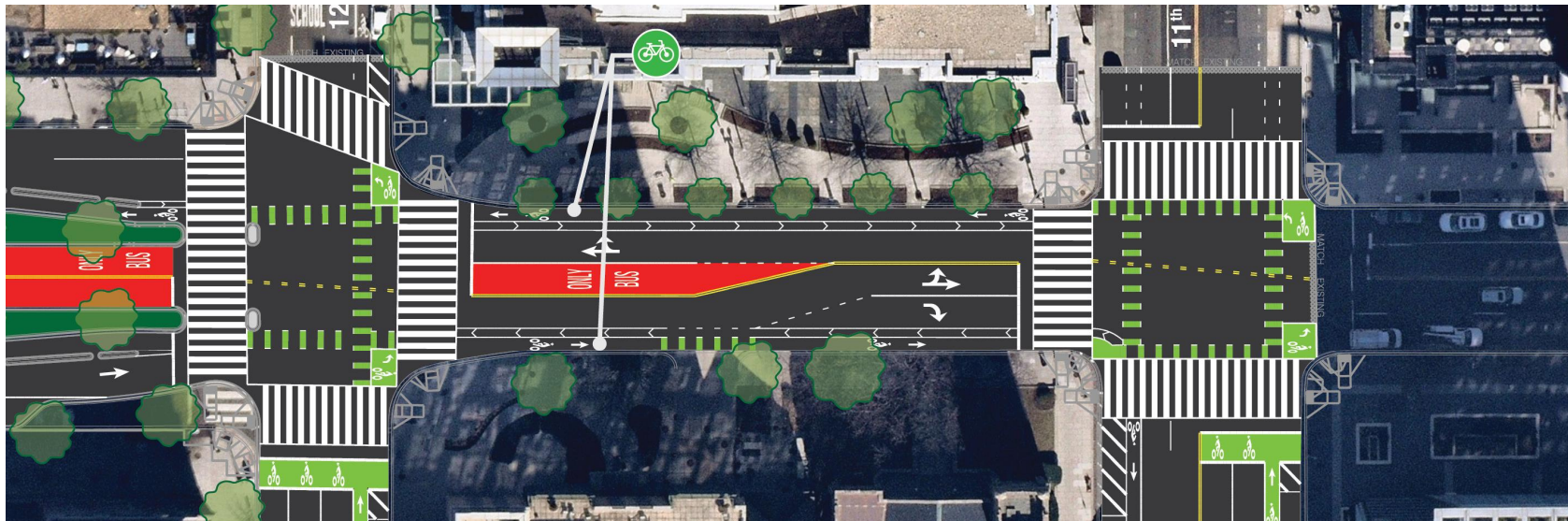
13th St NW to 12th St NW



Note: Trees illustrated in graphic above do not represent actual design plans

Corridor Design

12th St NW to 11th St NW



Note: Trees illustrated in graphic above do not represent actual design plans