



Welcome! Thank you for joining us. We will be getting started shortly...

**Connecticut Avenue NW Reversible Lane Operations and Safety Study** Public Meeting No. 1



# WEBEX LOGISTICS



# Welcome to our Virtual Public Meeting!

- We're all learning how to conduct virtual public meetings in this format, so please be patient with us.
- To begin, we will review some basic controls to help you participate on this platform.

**Please Note:** This is an open meeting and as required by DC Code 2-578, this meeting is being recorded, and the recording will be made available to the public.

- The video file (with both audio and video) will be shared on the project team's website at
   <u>https://ddot.dc.gov/page/connecticut-avenue-nw-reversible-lane-safety-and-operations-study</u>
   within 14 business days after the final meeting has ended.
- If you do not wish to have your voice recorded, please do not ask to speak. You may enter any
  questions or comments in the Q&A, which we will review in the next few slides.

If you need technical support during this meeting, please call **202-705-7859**.



## Using Webex – Audio & Video



## Audio/Muting

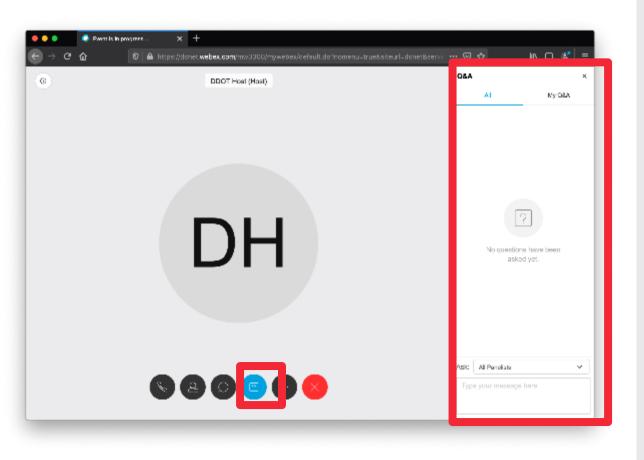
- Everyone is on mute. You cannot unmute yourself. We can unmute you during the Q&A and Comment period. This helps ensure the meeting runs smoothly and there are no auditory disruptions during the presentation.
- To request to speak, you will need to use the **Raise Hand** feature, which we will cover shortly.

### Video

 Your video camera is off by default and you will not be able to share video. To reduce the bandwidth of the meeting, only the Project Team will be sharing video to improve the overall meeting quality for all participants.



## Using Webex – Q&A via Browser



If you have a question during the presentation, send it via the Q&A feature.

**Note:** If you have called in by telephone, you cannot access the Q&A.

## To Send a Question:

- Click the "question mark icon" from the controls at the bottom of the browser window.
- A new panel will appear. In the "Ask" field, select All Panelists.
- Click the text box to type your question and press the Enter key to send it.



WEBEX LOGISTICS

## **Using Webex – Raise Hand via Browser**

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If you have called in and you have a question/comment, please use the **Raise Hand** option on your phone. This indicates to the Project Team that you would like to speak.

- **Dial \*3** to use the Raise Hand function.
- To virtually raise your hand, click the **"three dot** icon" from the controls at the bottom of the browser window. Select the **Raise Hand** option.

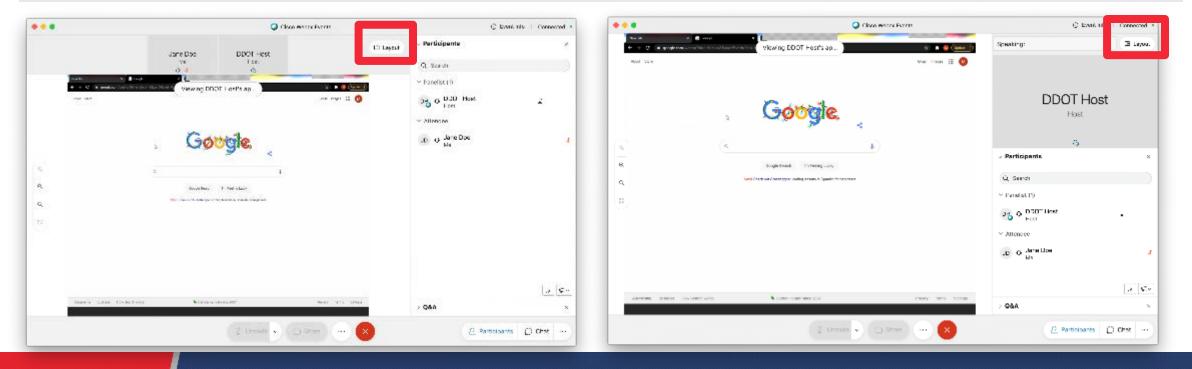


# **Using Webex – ASL Interpretation**

We recommend changing your view from the **Stack** view to the **Side-by-side** view.

## To Change your View:

- Click the Layout icon located on the upper right side of the main window.
- The default view is **Stack**, and the second view is **Side-by-side** view, which moves the video to the right panel next to the shared content. The ASL Interpreter will be in the larger box on the panel.



# INTRODUCTION





# **Project Team Introduction**

- Ed Stollof: DDOT Project Manager
- Cynthia Lin: DDOT Deputy Project Manager
- Michael Glickman: AMT, Consultant Project Manager
- Charlotte Ducksworth/Ian Swain: Public Involvement Consultant, Commun-ET
- Anne-Marie Turner: Safety, Sam Schwartz Engineering
- DDOT Subject Matter Experts:
  - Traffic Engineering: Zu-xuan Deng, Yi Zhao (TESD)
  - Active Transportation: George Branyan, Mike Goodno, Will Handsfield
  - Parking: David Lipscomb (PGTD)
  - Loading/Freight: Laura MacNeil
  - Transit Priority: Megan Kanagy and Yohannes Bennehoff (TDD)
  - Ward 3 Planning and Sustainability Representative: Ted VanHouten



# Meeting Agenda

2.

6.

7.

8.

### Introduction

- **Project Overview**
- 3. Public Outreach
- 4. Project Background
- 5. Existing Conditions
  - **Alternatives Development**
  - **First-Level Evaluation: All Concepts**
  - Second-Level Evaluation: Concepts B & C
    - a. Safety and Mobility
    - b. Parking and Loading
    - c. Modeling
    - d. Traffic Diversions
    - e. Traffic Levels of Service
- 9. Qu 10. Clo

## **Questions and Answers**

Closing



# **Meeting Objectives**

- Identify study goals and potential concepts that may fulfill the goals
- Understand why the study is being completed
- Illustrate multimodal conditions
- Identify tradeoffs, benefits and technical issues associated with each Concept
  - Show why Concepts B and C have "risen to the top"
- Understand the traffic and parking impacts of each Concept

Are there feasible design alternatives/solutions that you believe DDOT may not have considered given the goals and guiding principles of the study? Please let us know.



INTRODUC<sup>®</sup>

## **Project Goals**

### INTRODUCTION



# Reduce vehicle crashes; improve safety for all modes



#### **Consider a Protected Bicycle Lane**



Assess the feasibility of removing reversible lane operation



CONNECTICUT AVENUE NW

"The District Department of Transportation is studying the feasibility of removing the reversible lane system as part of the District of Columbia's Vision Zero initiative, which aims to eliminate traffic deaths and serious injuries by 2024. The purpose of the Connecticut Avenue NW Reversible Lane Safety and Operations Study is to assess the multimodal (vehicular, transit, bicycle, and pedestrian) operational and safety impacts associated with removing or maintaining/ improving the existing reversible lane system."



# **PROJECT OVERVIEW**





## **Primary and Secondary Study Areas**

OF MARYLAND

Hyattsville

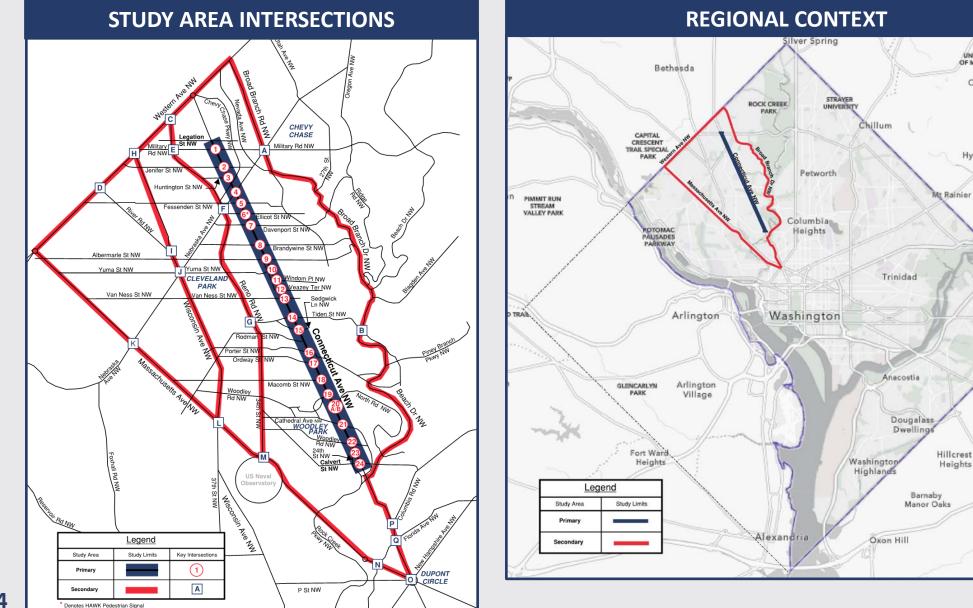
College Park

East Riverdale

MARVIN GAYE

PARK

Coral Hills

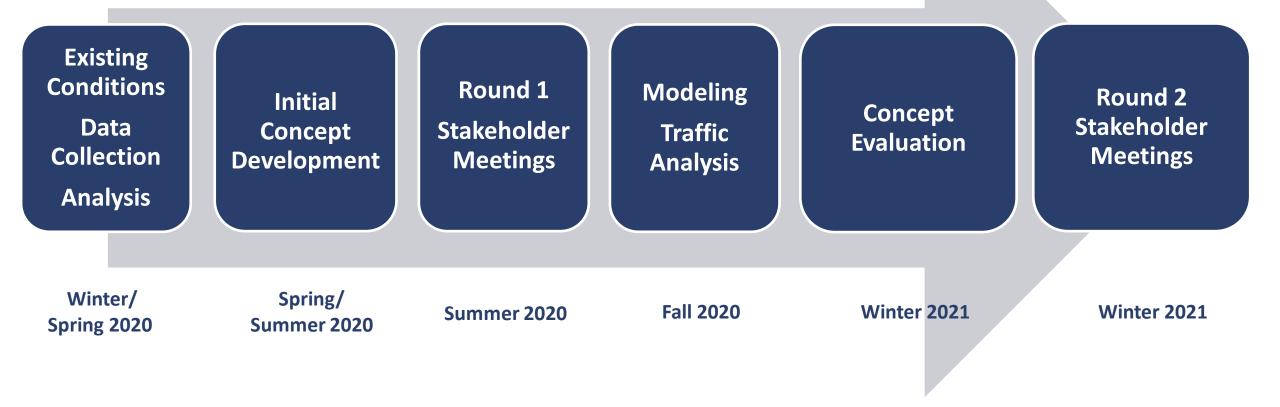




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# **Project Elements**

## **PROJECT OVERVIEW**





# **Project Elements**

## **PROJECT OVERVIEW**



Community Advisory Committee, Stakeholder Meetings, Interagency Meetings



# **PUBLIC OUTREACH:** COMMUNITY, STAKEHOLDER AND AGENCY ENGAGEMENT





# **Community, Stakeholder and Agency Engagement**

## Community Advisory Committee (CAC) & Advisory Neighborhood Commissions (ANCs)

## Stakeholder Meetings

Interagency Meetings

## Public Meetings

Website



## COMMUNITY ADVISORY COMMITTEE (CAC) MEMBERS

- David Cristeal, ANC 3F01
- Robert Deyling, Chair, ANC 3F Streets and Sidewalks Committee
- Beau Finley, ANC 3C04
- Chris Fromboluti, ANC 3G07
- Eileen McCarthy, Chair, Pedestrian Advisory Council (PAC)
- Lee Brian Reba, ANC 3C01
- Josh Rising, W3BA
- Randy Speck, ANC 3G03
- Tom Quinn, ANC 3E04



**PUBLIC OUTREACH** 

# **Stakeholder Meetings Held**

## **PUBLIC OUTREACH**

ORGANIZATION	DATE	ORGANIZATION	DATE
Montgomery County, MD Meeting	03-05-2020	Curbside Survey Update- Main Streets	09-17-2020
CAC Meeting No.1	04-30-2020	DPW	09-19-2020
CAC Meeting No. 2	06-11-2020	Cleveland Park Smart Growth (Alt E)	09-28-2020
Ward 3 Vision	06-22-2020	CAC Meeting No. 3	10-01-2020
Cleveland Park Main Street	06-25-2020	Woodley Park Main Street	11-12-2020
W3BA	06-29-2020	Van Ness Main Street	11-18-2020
ANC 3/4G	07-13-2020	WABA (ALT D-2) Meeting	12-02-2020
ANC 3E	07-16-2020	WABA and W3BA (Joint Meeting)	12-08-2020
Van Ness Main Street	07-17-2020	CFA	01-08-2021
ANC 3C	07-20-2020	CAC Meeting #4	01-13-2021
ANC 3F	07-21-2020	Smithsonian Zoo	01-21-2021
Interagency Meeting	07-22-2020	UDC	02-03-2021
Woodley Park Community Association	07-23-2020	ANC 3E	02-11-2021
<b>Cleveland Park Citizens Association</b>	07-29-2020	<b>Combined Main Streets Presentation</b>	02-16-2021
D.C. Office of Planning & DOEE	07-29-2020	SHPO/Andrew Lewis	02-17-2021
HSEMA, MOCRs	07-30-2020	ANC 3-4G	02-22-2021
<b>Curbside Survey Meeting-Main Streets</b>	08-21-2020	ANC 3C, Woodland-Normanstone, CPSG, CPCA	02-23-2021
Smithsonian Zoo	09-02-2020	Residential/Property Management	02-23-2021
Howard University School of Law	09-03-2020	ANC 3F	02-24-2021
		Woodley Park Citizens Association	02-25-2021



## **PUBLIC OUTREACH**

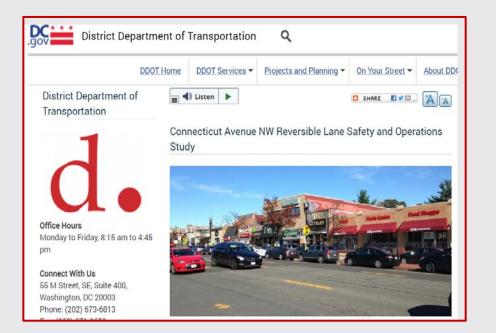
# **Contact Information**



Project Email Conn-Ave-revstudy@dc.gov

## **Project Website**

https://ddot.dc.gov/page/connecticut-avenuenw-reversible-lane-safety-and-operations-study





#### Ed Stollof, Project Manager

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#### Cynthia Lin, Deputy Project Manager

Project Planning Branch Planning and Sustainability Division Email: <u>Cynthia.Lin@dc.gov</u>

#### Donise Jackson, DDOT Ward 3 Community Engagement Specialist Office of the Director Email: <u>Donise.Jackson@dc.gov</u>

Charlotte Ducksworth, Community Engagement Specialist Partner and Vice President of Business Affairs, Commun-ET, LLC Email: <u>Cducksworth@commun-et.com</u>

Ian Swain, Community Engagement Specialist

Managing Partner, Commun-ET, LLC Email: <u>Iswain@commun-et.com</u>



# **PROJECT BACKGROUND**





# **Background: Prior Studies**

- 2003 Connecticut
   Avenue/Cleveland Park Traffic
   Operations' study
- 2011 Institute of Transportation Engineers Study
- Connecticut Avenue Pedestrian Action (CAPA) Pedestrian Safety Audit (February 2011)

#### Connecticut Avenue Transportation Study

#### Final Report



Prepared by DMJM+HARRI for: District Department of T District of Colu

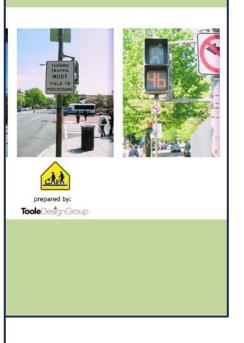
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#### Reversible Lane Operation for Arterial Roadways: The Washington, DC, USA Experience

THIS PAPER DISCUSSES PURPOSE This paper discusses the oper-THE OPERATIONS OF sible lanes on arterial roadways in Washington, DC, USA, The operations of REVERSIBLE LANES IN TH revenible lanes are evaluated using three fifferent criteri DISTRICT OF COLUMBIA. · Utilization of infra Safery: and THE OPERATIONS ARE Land use/eco INFORTE. EVALUATED USING THREE The discussion takes into account CRITERIA-UTILIZATION O nstraints inherent in a built-out urban ronment and operational constraint INFRASTRUCTURE CAPACITY, imposed by external stakeholders. The paper discusses the status of continues SAFETY, AND ECONOMIC operations of such facilities and draws some preliminary conclusions. DEVELOPMENT. BACKGROUND

**REVERSIBLE LANES** fraffic congestion has become a ser In the District of Columbia, re us issue in metropolitan areas around the s are implemented to improve traffs: ountry. The annual cost of traffic conflow during rash hours in corridors that estion is estimated to be \$115 billion. stating of 4.8 billion lost hours and with Some of the severible line full llion gallons of fuel wasted.<sup>1</sup> Cones have been in place for several decades aion-related delays are progressively ge Reversible lanes have been applied on sev ne worse. Increasing concession and delat modaeth omic and environm moacts but also has societal impact by afassociated with reak commuting periods. In ecting quality of life. In major urban areas addition, reversible lanes are used on an ad a large portion of the population spend time commuting than vacationing enance of traffic in work zones, and other pecial events. However, this paper focus ral concerns and lack of associable lanes implemented to address portunities to add inbalances in peak hour commuter traffic BY SOUMYA DEY, P.E., JIANMING MA, PH.D., P.E. AND YUSUF ADEN apacity in buil Currently, the District of Columbia of r urban areas have rates 10 roadway segments with reversible ed the transportaanes. The total le of these segment ector to shift its philosephy from is acconginately 10.6 miles, which is less building out of congestion" to "more District's roadway flicient operations of existing infrastrucmileage. Figure 1 shows the reversible lar ure." Consequently, jurisdictions have seements with specifics about starting and seen trying a host of active traffic manending points, directional lane configura ories aimed at enhancing nerational hour

Connecticut Avenue Pedestrian Action
Pedestrian Safety Audit



FROM NAL / IMAY 2011

ational efficiencies. Revenible lane

Reversible lanes on readways allow

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OVERVIEW OF WASHINGTON, D

adapt to changing traffic conditions using

temporal changes in

are a product of this trend.

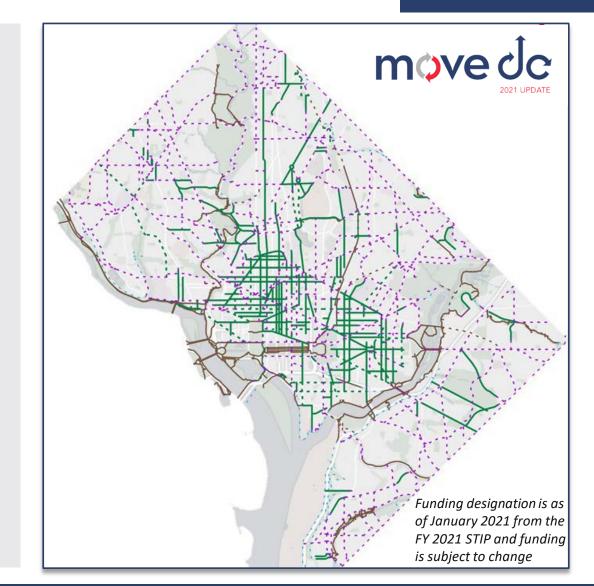


## Background

### Background

# **Background: Prior Studies**

- 2014 moveDC and 2021 moveDC Update
  - Connecticut Avenue identified as a Bike Priority Corridor in moveDC
- Connecticut Avenue, NW Corridor Crosswalk Safety Project, (February 2015), ANC 3/4 G
- Cleveland Park Bicycle Analysis (2016)
- 2018 ANC Resolutions for Reversible Lane Study
  - ANC 3C (May 21, 2018)
  - ANC 3F (March 20, 2018)
  - ANC 3 /4 G (October 22, 2018)
- Community involvement in shaping RFQ





## **Cleveland Park Streetscape/Drainage Improvement Project**

Background

- Overview of Project
  - Scope: Streetscape, Drainage, Roadway and Pedestrian Safety
  - Design: Completed 2020
  - Schedule: Advertisement Planned for FY 2021
- Status of Service Lane:
  - Includes One (1) Parking/Loading Lane and One (1) Travel Lane
  - Four (4) of the 26 existing spaces to be removed for new connection to Connecticut Avenue (with dedicated traffic signals for exiting vehicles)
- Connecticut Avenue Reversible Lane Project would not impact to the Cleveland Park Project Projects are independent.



# **EXISTING CONDITIONS**





# **Connecticut Avenue NW – Existing Characteristics**

- Roadway Classification: Principal Arterial
- Speed Limit: 30 mph
- Right-of-Way: Varies from 100' to 140'
- Curb-to-Curb: 60' Width includes Six (6) 10' lanes
- Daily Volumes: 23,600 (~ Calvert St) 31,800 (~ Porter St)
- AM and PM Peak Period Traffic Operations (Pre-COVID)
  - 2.7 Mile Two (2) Lane Reversible Lane System
  - Four (4) Peak and Two (2) Off-Peak Direction Traffic Lanes
  - Lane Usage: Approx. 70% of motorists use two (2) of the four
    (4) peak direction lanes.



Connecticut Avenue NW Reversible Lanes – Circa 1970



Connecticut Avenue NW Reversible Lanes – 2021



**Existing Conditions** 

# **Parking Regulations and Supply**

**Existing Conditions** 

- Unregulated Parking most of the parking along the Connecticut Avenue NW corridor is unregulated parking.
- **Time Limited Parking -** scattered throughout the corridor within and outside of the primary commercial activity centers.
- Metered Parking predominantly located near commercial activity centers such as Cleveland Park, Van Ness, and Woodley Park.
- Loading primarily located near the three Corridor commercial activity centers.

Parking Regulation	Description	Supply
Unregulated Parking	Parking allowed at all times and days. No parking during AM and/or PM peak hours	274 spaces
2-Hour Parking	2 Hour time limited parking (9:30 am-4:00 pm). No parking during AM and PM peak hours	150 spaces
2-Hour & 3 ½ Hour Metered Parking	Time limited paid parking (\$2.30/hr.), No parking during AM and PM peak hours	185 spaces
Loading Zone	Signed, on street metered zones exclusively for commercial vehicles for up to two hours at a time during off peak periods	577'/24 spaces





## **Existing Conditions**

# **Pedestrians**

- Continuous network of sidewalks, crosswalks and streetscape elements
- Consider impacts to access in design alternatives
- Top five AM/Midday/PM Pedestrian Intersections
  - Windom Place NW, Veazey Terrace NW, Woodley Road NW/ Calvert Street NW/ Yuma Street NW

Brandfuine ;

9

Davenbort

Ellicott St

Albemarle ;

Van Ness St

Tilden St

Veazey Ter

Windom F

tuma St

(5)(1)

- **Key Issues** 
  - Cyclists/Scooters/Pedestrian conflicts on sidewalks
  - Pedestrian conflicts at bus stops
  - Slower walkers need more time to cross the street
  - Long pedestrian wait times

Jennifer St

Military

28

Vehicles not following pedestrian laws



Devonshire

North St

Ordway St

Porter St

106

Top 10 intersections with pedestrian activity

## **Existing Conditions**

## **Bicycles**

- Connecticut Avenue NW is designated as a Protected Bicycle Facility in moveDC
- Bicycle level of stress (BLOS) along the corridor ranges from fair to poor conditions
- Intersections with greatest bicycle volumes are between Porter Street NW to Calvert Street NW

Fessenden

Ellicott St

Brandfuine

Albemarle 5

Yuma St Windom PI

Veazey Ter

Tilden St

Ordinal St

orter St

9

Davenbort St



North St

8

Woodley

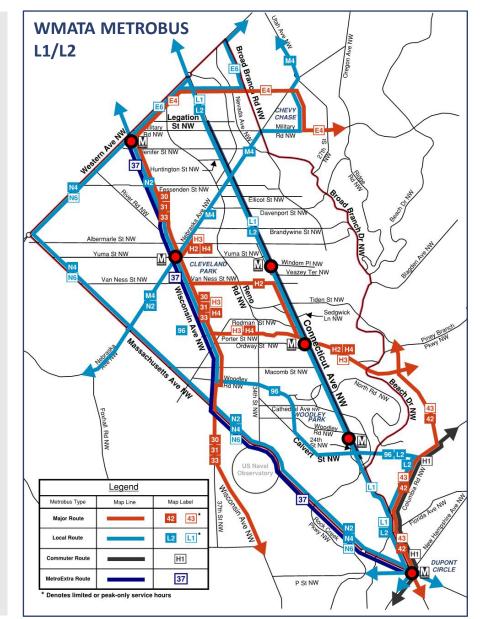
BOWSER, MAYOR

Jennifer St

Military

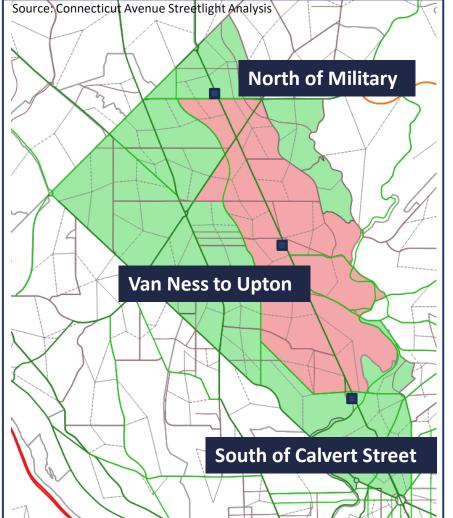
## **Transit**

- WMATA Metrorail Red Line, DC Circulator, WMATA Metrobus Routes L1 and L2
- Average Daily Ridership: 4,300 boardings
  - L1: 791; L2: 3,462
- Approximately 50 bus stops along the corridor
- High-frequency in the peak hour/ peak direction
  - AM Peak SB: 8 minutes
  - PM Peak NB: 4 to 5 minutes
- WMATA fall 2019 boarding and alightings
  - Veazey Terrace/Connecticut
     Avenue: highest transit activity
     (1,200 boardings/ alightings





## **Origins and Destinations - Connecticut Avenue NW**



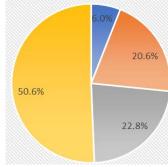
North of Military	
	%
From/to Study Area	6.0%
From Study Area to Region	20.6%
From Region to Study Area	22.8%
Through Study Area (to/from Region)	50.6%
Total	100.0%

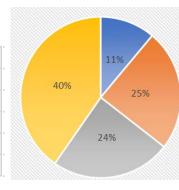
#### Van Ness to Upton

	%
From/to Study Area	11.1%
From Study Area to Region	24.4%
From Region to Study Area	24.2%
Through Study Area (to/from Region)	40.3%
Total	100.0%

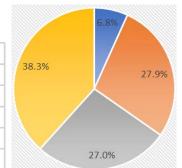
#### South of Calvert Street

	%
From/to Study Area	6.8%
From Study Area to Region	27.9%
From Region to Study Area	27.0%
Through Study Area (to/from Region)	38.3%
Total	100.0%





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## From/to Study Area

- From Study Area to Region
- From Region to Study Area
- Through Study Area (to/from Region)

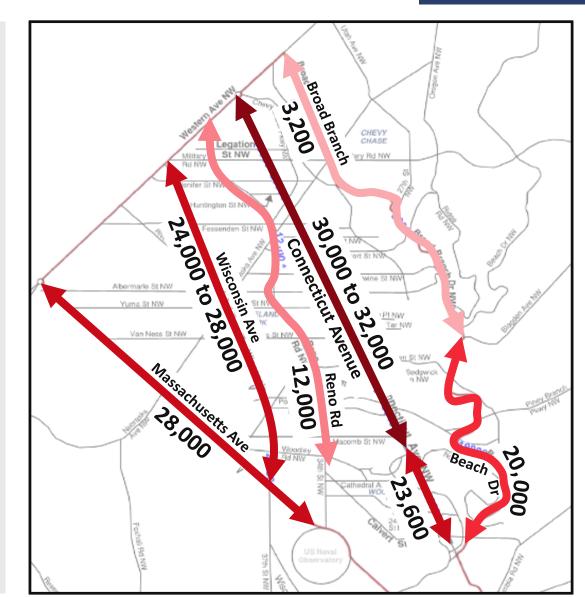


# **Existing (2019) Average Daily Traffic (ADT) Volumes**

## **Existing Conditions**

## **Pre-COVID Conditions**

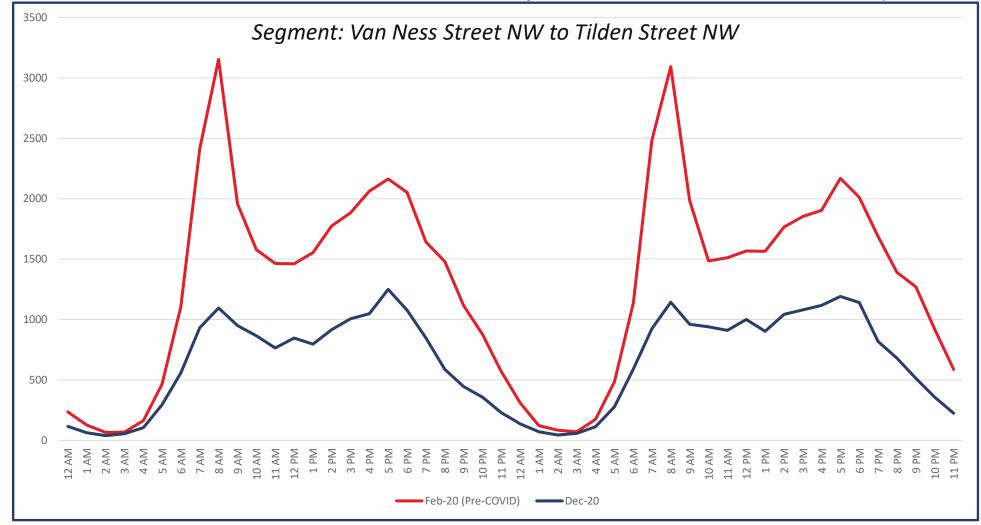
- Connecticut Avenue NW ADTs:
  - Western Avenue to Tilden Street:30,000 to 32,000 vehicles per day (VPD)
  - Cathedral Avenue to Calvert Street:
     23,600 VPD
- Secondary Study Area ADTs:
  - Wisconsin Avenue: 23,600 to 28,100 VPD
  - Reno Road: 12,100 VPD
  - Massachusetts Avenue: 28,400 VPD
  - Broad Branch Road: 3,200 VPD
  - Beach Drive: 19,900 VPD





# **December 2020/COVID-19 Sample Traffic Counts**

Connecticut Avenue NW 48-Hour Volume Comparison - Dec 2020 vs. Feb 2020 (Pre-COVID)



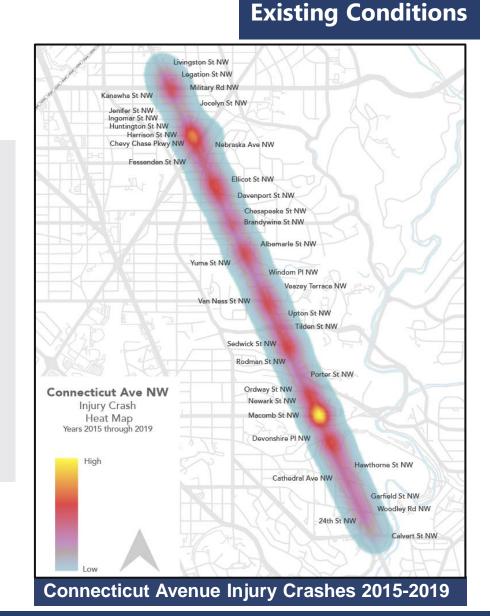
Overall, 45-49% Reduction in daily traffic volumes between Pre-COVID and COVID conditions.

**Existing Conditions** 



# **Safety and Crash Analysis**

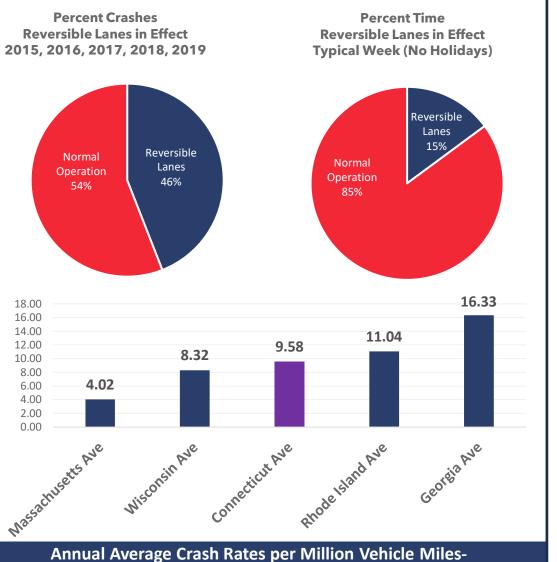
- 1,507 police-reported crashes occurred during the fiveyear study period (2015-2019):
  - 401 Vehicle Crashes Resulted in Injury (177 during reversible lane hours)
  - 64 Involved Pedestrians (20 during reversible lane hours)
  - 39 Involved Bicycles (11 during reversible lanes hours)





# **Safety and Crash Analysis**

- 46% of the total crashes occur during reversible lane hours (in effect only 15% of the week):
  - 36% of these peak hour crashes may be directly attributed to the reversible lane operation (e.g., driver confusion, left turns/U-turns from incorrect lane)
- 17% of the <u>overall</u> crashes may be attributed to the reversible lane operations.
- Average Annual Crash Rate
  - Higher than two comparison corridors (Massachusetts Avenue and Wisconsin Avenue)
  - Lower than two other comparison corridors (Georgia Avenue and Rhode Island Avenue)



Connecticut Avenue NW and Comparison Corridors



**Existing Conditions** 

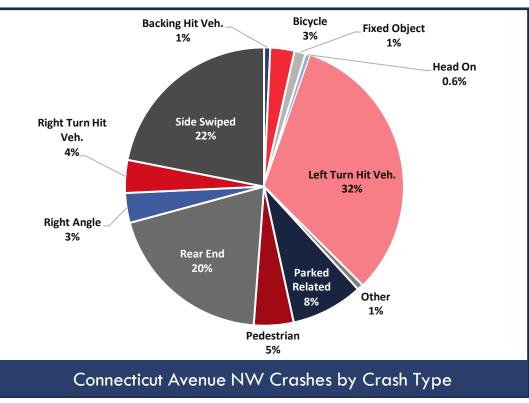
# **Safety and Crash Analysis**

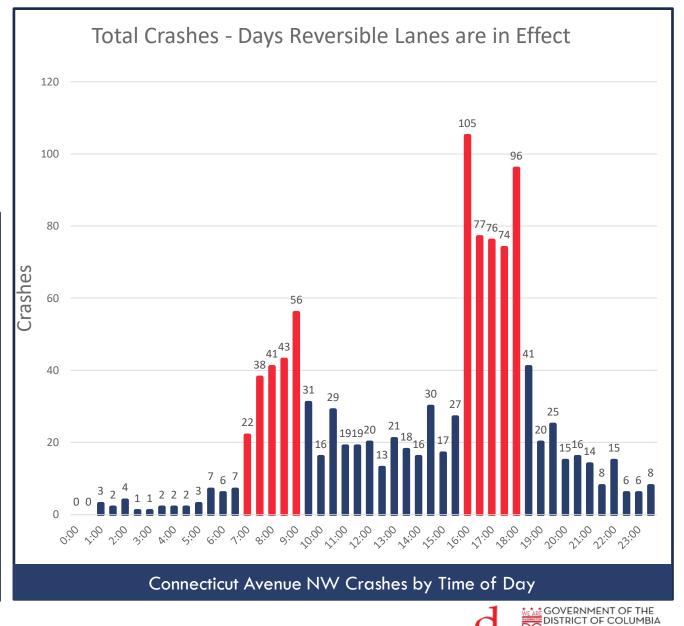
## **Existing Conditions**

URIEL BOWSER, MAYOR

Three (3) crash types accounted almost 77% of all crashes:

- Left Turn Hit Vehicle (32%)
- Side Swiped (24%)
- Rear End (21%)





# ALTERNATIVES DEVELOPMENT





### **Guiding Principles**

Quality of Life	<ul> <li>Accommodate the needs of people who live, work, and recreate within the Connecticut Avenue corridor.</li> </ul>	Parking and Loading	<ul> <li>Retain some parking and loading in Commercial areas.</li> </ul>			
	<ul> <li>Prioritize the needs of corridor residents/businesses.</li> <li>Provide sustainable, resilient, and equitable transportation options for all modes.</li> </ul>	Pedestrians	<ul> <li>Integrate pedestrian improvements into each alternative concept.</li> </ul>			
Safety and Vision Zero	<ul> <li>Reduce the number of crashes and fatalities.</li> <li>Incorporate Complete Streets principles to reduce webside an ended along the contrider.</li> </ul>	Bicycles	<ul> <li>Include protected bicycle lane concept(s).</li> </ul>			
	<ul> <li>• Mitigate significant traffic impacts, to the</li> </ul>	Transit	<ul> <li>Include bus transit operational improvements.</li> </ul>			
Traffic Operations	<ul><li>extent feasible, when considering alternative concepts.</li><li>Understand diversion impacts and mitigate, where possible.</li></ul>	ROW/ Construction	<ul> <li>The alternative must be constructed within the 60-foot curb-to-curb cross-section.</li> </ul>			



### **Alternatives Development Overview**

- Started with four (4) DDOT Build Concepts (A, B, C and D-0) plus No-Build Concept.
- Received potential concepts from Public/CAC (Concepts D-1, D-2 and Concept E).
- No-Build, Concept A, and Concept D-0 would require MUTCD-compliant overhead signage and signals; not supported by CFA and SHPO.
- Alternatives B and C "rising to the top" in terms of potential viability.
- Alternative B removes the Reversible Lanes; no Protected Bicycle Facilities.
- Alternative C includes One-Way Protected Bicycle Lanes and removes reversible lanes.
- All Alternatives:
  - Include elements to improve safety and mobility including far-side bus stop relocations.
  - Posted speed limit reduction along Connecticut Avenue from 30 mph to 25 mph



## **Alternative Development Findings**

**Alternatives Development** 

- Difficult to meet full Purpose and Need.
- If we remove the reversible lanes, accommodate some parking/loading, and accommodate PBLs, PBL widths/buffers have reduced dimensions.
- If we provide for only removal of the reversible lanes (Concept B), we are not accommodating multimodal safety and accessibility goals.
- No-Build Management Option:
  - Does not appear to meet Purpose and Need
  - Does not reduce crashes
  - Retains the Reversible Lanes
  - Does not meet the multimodal safety and accessibility goals
  - Requires overhead signage/signals to be MUTCD-compliant; not supported by CFA.



# **FIRST-LEVEL EVALUATION:** ALL CONCEPTS

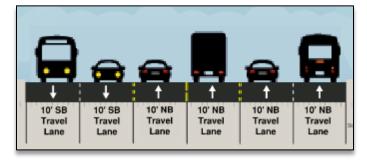




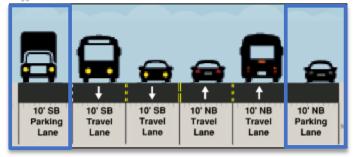
#### **No-Build Management Option**

#### AM Peak Period 10' SB 10' SB 10' SB 10' SB 10' NB 10' NB Travel Travel Travel Travel Travel Travel Lane Lane Lane Lane Lane Lane

PM Peak Period



Off-Peak Periods

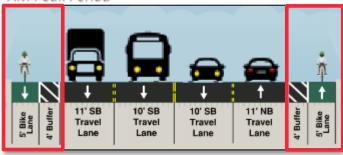


- Retains two (2) lane Reversible Lane System
- No upgrades to overhead signs/signals as required by MUTCD (not supported by CFA)
- Peak Period/Non-Peak Period Lane Operations- no change from Pre-COVID conditions
  - AM four (4) lanes inbound; two (2) lanes outbound; reverse in PM
  - Off-Peak Periods: two (2) travel lanes each direction; parking lane on the east and west sides of Connecticut Avenue
- May include intersection improvements to enhance pedestrian accessibility and safety
- Traffic Forecasts for No-Build Option developed as a baseline to measure the impacts of concepts that change Corridor number of lanes.

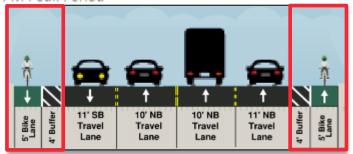


### **Concept A**

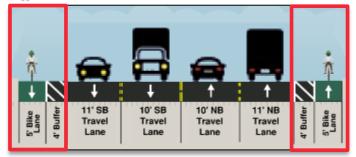
#### AM Peak Period



PM Peak Period



Off-Peak Periods

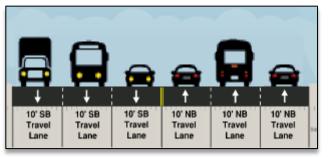


- Retains 2-lane Reversible Lane System.
- Requires upgrade of Reversible Lane System to include overhead lane-use signs and signals.
- Peak Hour Lane Operations:
  - Three (3) peak direction travel lanes/One (1) off-peak direction travel lane.
- Off-Peak Period Traffic Operations:
  - Two (2) northbound and two (2) southbound lanes.
- One-way Protected Bicycle Lanes:
  - Located on east and west sides of Connecticut Avenue.
  - Includes 5' bike lane and 4' buffers.
  - All parking along Connecticut Avenue to be removed.



### **Concept B**

AM Peak & PM Peak Periods



- Removes Reversible Lane System
- Peak Hour Traffic Operations:
  - Three (3) northbound lanes and three (3) southbound lanes during peak hours
- Off-Peak Period Traffic Operations:
  - Two (2) northbound and two (2) southbound lanes
  - Parking/loading provided on the northbound and southbound sides of Connecticut Avenue

**Off-Peak Periods** 

10' SB

Parking

Lane

10' SB

Travel

Lane

10' SB

Travel

Lane

10' NB

Travel

Lane

10' NB

Travel

Lane

10' NB

Parking

Lane

- No Protected Bicycle Lanes
- Parking /Loading
  - No Parking removed in this Concept
  - As in Pre-COVID conditions, parking would not be permitted during peak hours.



#### **Concept B – Illustrative Rendering**

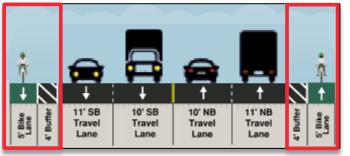
#### **Second-Level Evaluation**



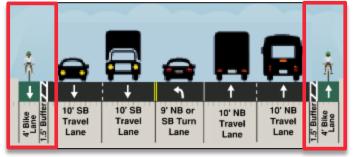


#### **Concept C**

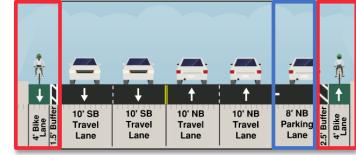
#### Mainline: All Periods



With Left-turn Pocket: All Periods



Option #1: NB or SB Parking & Loading Lane



- Removes Reversible Lane System
- Peak Period/Off-Peak Period Traffic Operations:
  - Two (2) northbound travel lanes
  - Two (2) southbound travel lanes
- One-way Protected Bicycle Lanes:
  - Located on east and west sides of Connecticut Avenue
  - Reduced buffers for options that include left turn lane or parking/loading lane

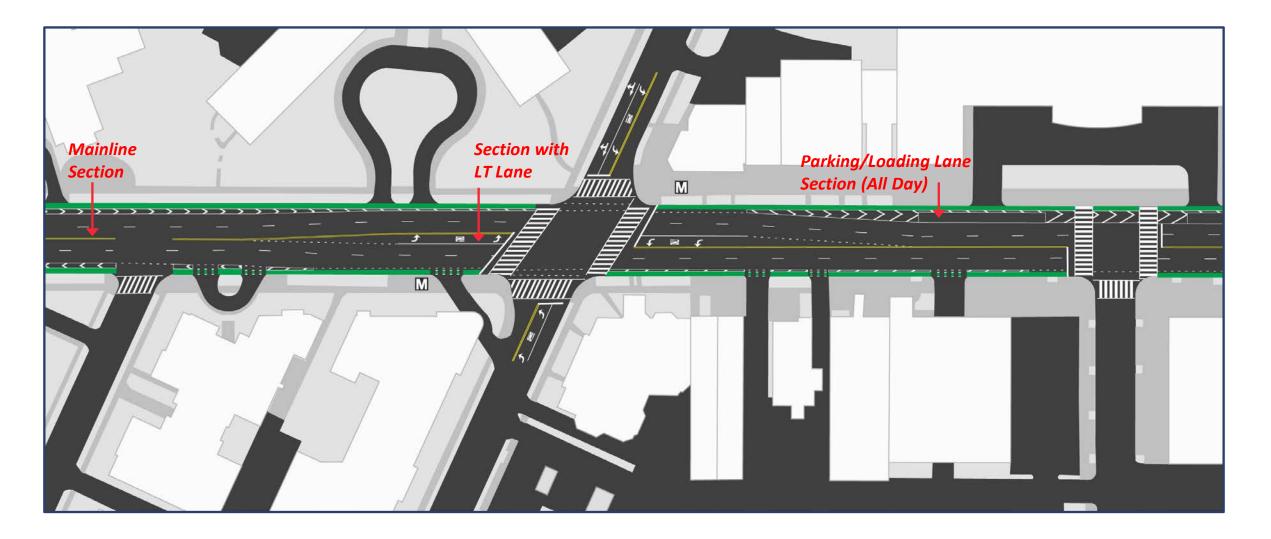


### **Concept C – Illustrative Rendering**





#### **Concept C – Typical Layout**

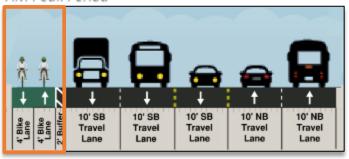




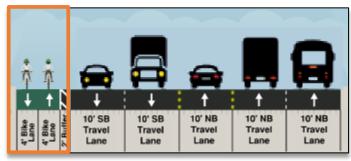
#### **First-Level Evaluation**

## **Concept D-0**

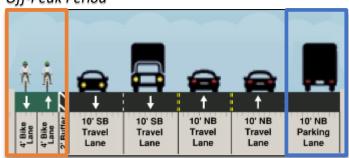
#### AM Peak Period



#### PM Peak Period



#### Off-Peak Period

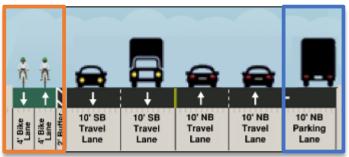


- Retains one (1) lane Reversible Lane
- Requires upgrade of Reversible Lane System per MUTCD Standard (CFA and SHPO do not support)
- Peak Hour Traffic Operations
  - Three (3) peak direction/ two (2) off-peak direction travel lanes
- Off-Peak Period Traffic Operations
  - Two (2) NB and two (2) SB travel lanes with NB Parking/Loading lane
- Two-way protected cycle track:
  - Two (2) 4-foot bike lanes and a 2-foot buffer.
- Left-turn pockets with "protected only" phasing, as required by DDOT's *Bicycle Facility Design Guide* 
  - Not constructible due to Reversible Lanes.



## **Concept D-1 (by others)**

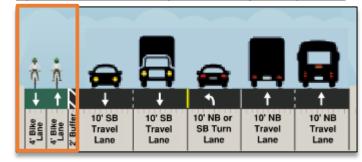
All Periods



- Removes Reversible Lane System
- Traffic Operations, All Day:
  - Two (2) northbound and two (2) southbound lanes
- Two options (based on locational needs within Corridor):
  - Northbound (NB) parking/loading lane, or NB/SB left-turn pocket
- Two-way protected cycle track:
  - Two (2) 4-foot bike lanes and a 2-foot buffer
- Left-turn pockets with "protected only" phasing required for all intersections per DDOT's <u>Bicycle</u> <u>Facility Design Guide.</u>
  - NB/SB left turns may block left lane leaving only one lane for through movement.
  - Left-turn pockets required for two-way cycle track preclude parking.



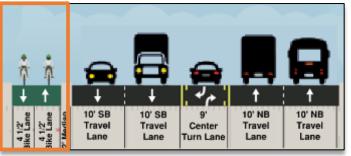
Option: Based on need for NB/SB Left-turn pockets



#### **First-Level Evaluation**

### **Concept D-2 (by others)**

AM and PM Peak Periods



- Removes Reversible Lane System
- Peak Period Traffic Operations:
  - Two (2) northbound and two (2) southbound lanes; two-way center left-turn lane

**Off-Peak Period** 

10' SB

Travel

10' SE

Travel

Lane

Center

Turn Lane

10' NB

Travel

Lane

10' NB

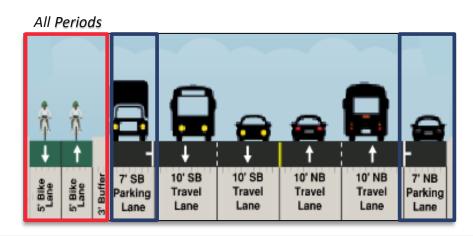
Parking

Lane

- Off-Peak Period Traffic Operations:
  - One (1) northbound and two (2) southbound lanes; Two-way center left-turn lane
  - Northbound parking/loading lane
- Two-way protected cycle track:
  - Two (2) 4-foot bike lanes and a 2-foot buffer
- Left-turn pockets with "protected only" phasing required for all intersections per DDOT's <u>Bicycle</u> <u>Facility Design Guide.</u>
  - NB/SB left turns may block left lane leaving only one lane for through movement.
  - Left-turn pockets required for two-way cycle track preclude parking.



### **Concept E (by others)**



- Removes Reversible Lane System
- Peak Period/Off-Peak Period Traffic Operations:
  - Two (2) northbound and two (2) southbound lanes
  - Northbound and southbound Connecticut Avenue Parking/Loading Lanes
- Two-way Protected Cycle Track on the west side of Connecticut Avenue:
  - Two (2) 5' bike lanes and a 3' buffer
- ROW/Construction required to accommodate 67' cross-section (60-foot existing curb-to-curb).
   Does not conform to DDOT Guiding Principles
- Cleveland Park Streetscape Project design impact.



## **Concept Evaluation Criteria**

- Traffic Safety
- Traffic Operations
- Bicycle Accessibility and Comfort
- Pedestrian Accessibility and Comfort
- Transit Accessibility and Operations
- Parking, Loading and Pick-Up/Drop-Off
- Constructability/Implementation

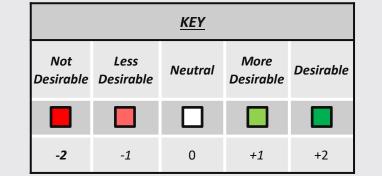
Embedded within the Evaluation Criteria -Consistency with District of Columbia Plans:

- moveDC
- Bicycle Master Plan
- Vision Zero
- Sustainable DC 2.0 Plan
- Bicycle and Pedestrian Safety
   Amendment Act of 2016

### **Concept Evaluation Matrix**

#### **First-Level Evaluation**

PROJECT PURPOSE		Improve Safety and Operations along the		No-Build										Provided by Others *				
		Corridor > Improve Multi-modal Accessibility	Option		Concept A		Concept B		Concept C		Concept D <sup>0</sup>		Concept D <sup>1</sup>		Concept D <sup>2</sup>		Concept E	
Screen 1	FATAL FLAW ANALYSIS	Requires Additional ROW (existing 60' curb-to-curb width)	NO		NO		ΝΟ ΝΟ		0	NO		NO		NO		YES		
		1. Traffic Safety		-2		-2		+1		+2		-2		+2		+2		
	CRITERIA ASSESSMENT	2. Traffic Operations		+2		-1		+1		+1		-1		-1		-2		
		3. Bicycle Accessibility & Comfort		-2		+2		-2		+1		+1		+1		+1		
reen		4. Pedestrian Accessibility & Comfort		0		+1		0		+1		0		0		0		
Sci		5. Transit Accessibility & Operations		+1		-1		+1		0		0		0		-1		
		6. Parking, Loading & Pick-up/Drop-off (PUDO)		+2		-2		+2		-1		+1		-1		+1		
		7. Constructability & Implementation		-2		-2		+1		0		-2		-2		-2		
Scoring		-1		-5		+4		+4		-3		-1		-1		N/A		





# SECOND-LEVEL EVALUATION: CONCEPTS B & C

**SAFETY AND MOBILITY** 





## **Potential Safety Benefits of Concepts B & C**



Remove Reversible Lanes - Estimated 36% reduction of crashes during peak hours (17% overall) (Concept B, C)



Remove Parking for 25' Corner Visibility – Estimated up to 20% reduction of crashes



Add Protected Bicycle Lanes – Expected decrease in vehicular crashes, protects cyclists mid-block (Concept C)



Pedestrian Refuge Island – Estimated 26% reduction of crashes at intersections with refuge islands



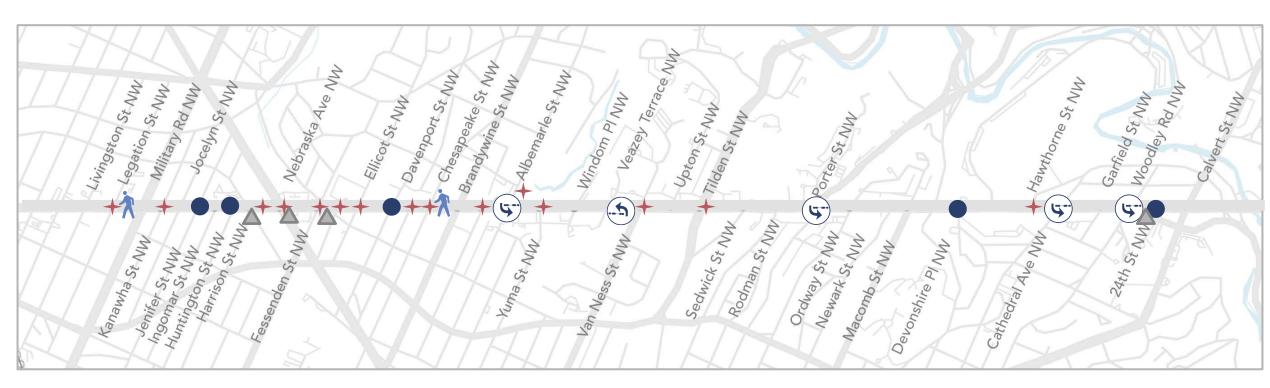
Add Turn Lanes at selected intersections – Estimated 27% reduction of crashes at intersections with turn lanes (Concept C)



Left-Turn Calming Treatments – Slows left turning vehicles, reducing conflicts with pedestrians (Concept B)



### **Concept B - Potential Safety and Mobility Improvements**



五 Left Turn Calming

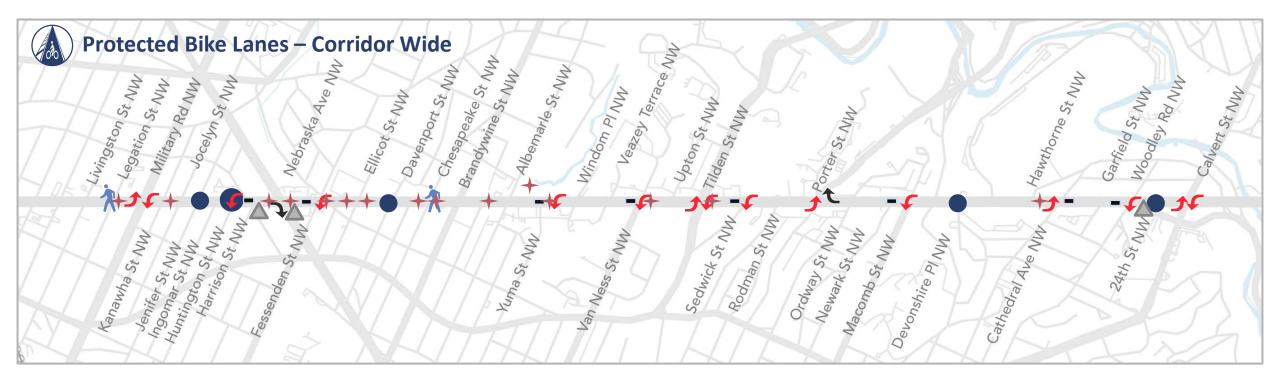
Analyze intersection for approach realignment (Simplify approach or shorten side street crossing distance)

- HAWK Signal (requires additional study)
- No Right Turn on Red (requires additional study)

Parking Clearance



### **Concept C - Potential Safety and Mobility Improvements**



- Left Turn Lane
- right Turn Lane

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- HAWK Signal (requires additional study)
  - No Right Turn on Red

- Pedestrian Refuge Island
- $\triangle$
- Analyze intersection for approach realignment (Simplify approach or shorten side street crossing distance)
- Parking Clearance



**Second-Level Evaluation** 

## Illustrative Bus Stop Relocations and Elimination

#### ●No Change ← Shift Far-side ● Eliminate Chesapeake St NW Brandywine St NW Albemarle St NW Davenport St. NW Livingston St NW UN BAZEN Terrace NW Military Rd NW Fessenden St NW St NW St NW Hawthorne St NW Ellicott St NW Upton St NW Jocelyn Legation Nº0 Θ 0 Θ Θ Newark St NW Devonshire PI NW 24th St NIN Ordinay St NUL 0 Θ 0 Θ 0 0 Θ 0 Θ Ave NW Sedgwick St NW Rodman St NW St NW Macomb St NW St NW Vanawha St NW Yuma St NW Nebraska Arrison Huntington S Jenifer. Cathedral,

#### Far Side Bus Stops

- Increase pedestrian visibility and situate pedestrians to cross behind the bus.
- They reduce conflicts with right-turning vehicles, which may try to pass a stopped bus.
- Far-side bus stop times may be faster for transit service as compared to near-side locations.



**Second-Level Evaluation** 

# SECOND-LEVEL EVALUATION: CONCEPTS B & C

**PARKING & LOADING** 





### Parking & Loading Evaluation

#### **Connecticut Avenue NW: Legation Street NW to Calvert Street NW**

- Concept B:
  - Removes minimal parking 21 spaces to achieve 25' visibility at crosswalks.
- Concept C:
  - Parking/loading on one side of Connecticut Avenue would be removed;
    - May alternate between northbound and southbound sides to maximize use to be finalized during next phase of design.
  - Illustrative scenario
    - 288 parking spaces retained; 321 parking spaces removed.
    - 447' (~18 spaces) of loading retained; 130' (~6 spaces) of loading would be removed



## Parking & Loading Evaluation

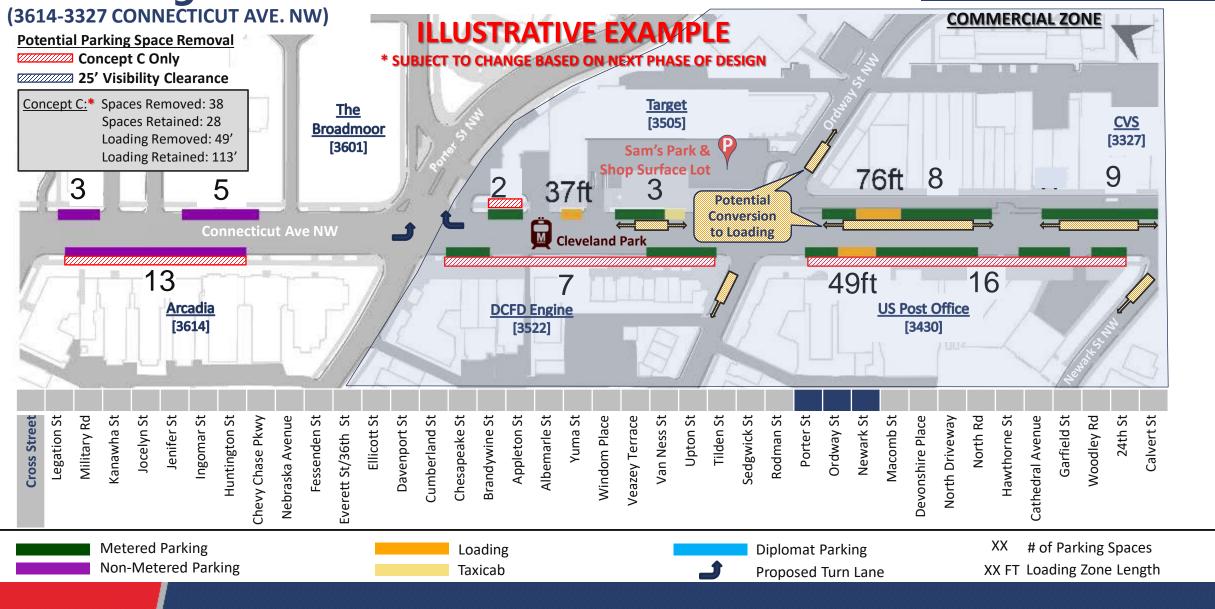
#### Possible Solutions for Concept C to Increase Parking & Loading

- Parking and Loading spaces would be signed for "All Day" use.
  - Provides a "gain" of 17.5% in weekly availability of parking space hours where there are currently
    parking restrictions.
- Modify the existing mix of parking spaces, pick-up/drop-off (PUDO) spaces and loading spaces by time-of-day.
  - Converting Residential Parking Permit (RPP) spaces to short-term PUDO or loading spaces.
  - Converting 2-hour metered parking spaces to short-term PUDO or loading spaces.
  - Utilization of midblock spaces on either side of mid-block crosswalks for loading.
- Understanding current alley access and loading opportunities and constraints.



#### **Corridor Segment 7: Porter St to Newark St**

#### **Second-Level Evaluation**





#### **Potential Parking Scenario – Concepts B & C**

#### **Second-Level Evaluation**

Pa	ecticut Avenue NW arking & Loading xisting Conditions	Total Available	Connectio Parkin Potential Scenario	Concept B	Concept C	
Total Parking Spaces		609	Total Potential Parking Spa	aces Removed along the Corridor **	21	321
Total Parking Spaces by Roadway Segment	1) Legation St to Jennifer St	61		1) Legation St to Jennifer St	2	30
	2) Jennifer St to Fessenden St	65		2) Jennifer St to Fessenden St	5	41
	3) Fessenden St to Chesapeake St	56		3) Fessenden St to Chesapeake St	5	35
	4) Chesapeake St to Yuma St	66	Total Potential Parking	4) Chesapeake St to Yuma St	5	27
	5) Yuma St to Upton St	78	Spaces Removed by Connecticut Avenue NW Roadway Segment	5) Yuma St to Upton St	1	45
	6) Upton St to Rodman St	73		6) Upton St to Rodman St	2	43
	7) Rodman St to Newark St	66		7) Rodman St to Newark St	0	38
	8) Newark St to North Rd	33		8) Newark St to North Rd	0	10
	9) North Rd to Woodley Rd	87		9) North Rd to Woodley Rd	1	46
	10) Woodley Rd to Calvert St	24		10) Woodley Rd to Calvert St	0	6
Total Loading Area		577 feet (~24 Spaces)	Total Potential Parking Spa	aces Retained	588	288
			> Total Potential Loading Are	ea Retained along the Corridor	577 feet (~24 Spaces)	447' (~18 spaces

\* Subject To Change Based On Next Phase Of Design

\*\* Includes removal of 21 spaces to achieve 25' visibility clearance required at Intersections.



(~18 spaces)

(~24 Spaces)

# SECOND-LEVEL EVALUATION: CONCEPTS B & C

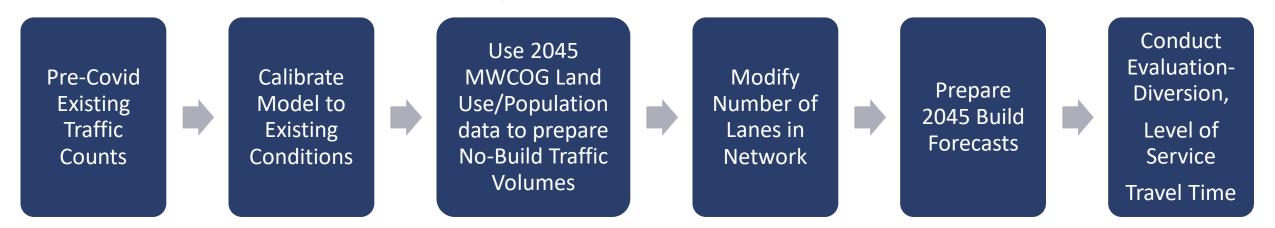
MODELING





#### **Travel Demand Forecasting**

#### **Second-Level Evaluation**



#### Traffic modeling and analysis consisted of the following:

- Preparing 2045 traffic volume forecasts consistent with land use, employment and population estimates from DC, MWCOG
- Modifying the number of lanes
- Estimating traffic diversions
- Conducting level of service/capacity analyses
- Comparing relative travel time differences between Concepts



### **Limitations/Assumptions in Traffic Model**

- Focus on Concepts B and C since traffic model is sensitive to changes in number of lanes.
- Models are good at forecasting traffic on higher volume roads than on lower volume roads.
- Model does not consider potential mode shifts that may occur in the study area such as additional transit or Metro ridership.
- Model does not consider potential changes such as more people working from home as a direct result of dynamics created by pandemic conditions.
- The study considers a Year 2045 Planning horizon and does not consider changes in traffic volumes on a year-to-year basis.



# SECOND-LEVEL EVALUATION: CONCEPTS B & C

**8d.** 

**TRAFFIC DIVERSIONS** 



### **Traffic Diversion: General Principles**

- Modeled Traffic Diversions for No-Build and Concepts B and C.
- Developed a Daily (24-Hour) Diversion volume.
- Some diversions will occur within our Secondary Study Area and on Regional Roadways.
- Model only considers potential mode shifts at the regional level and is not sensitive to local changes that may occur in the study area such as additional transit or Metro ridership.
- Distributed Daily Diversion volumes to Secondary Study Area over five (5) hours in the AM Peak Period and five (5) hours in the PM Peak Period.
- Diversions are not expected to occur during 14 of 24 hours of the day (i.e., during the off-peak periods).

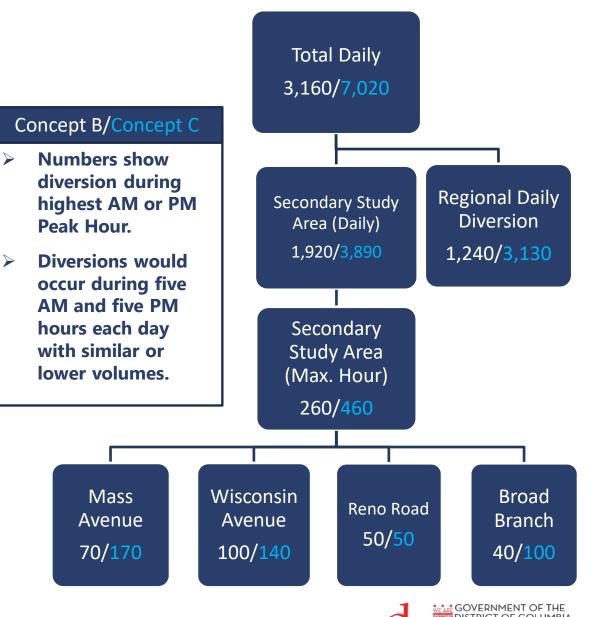


## **Secondary Study Area and Regional Diversions**

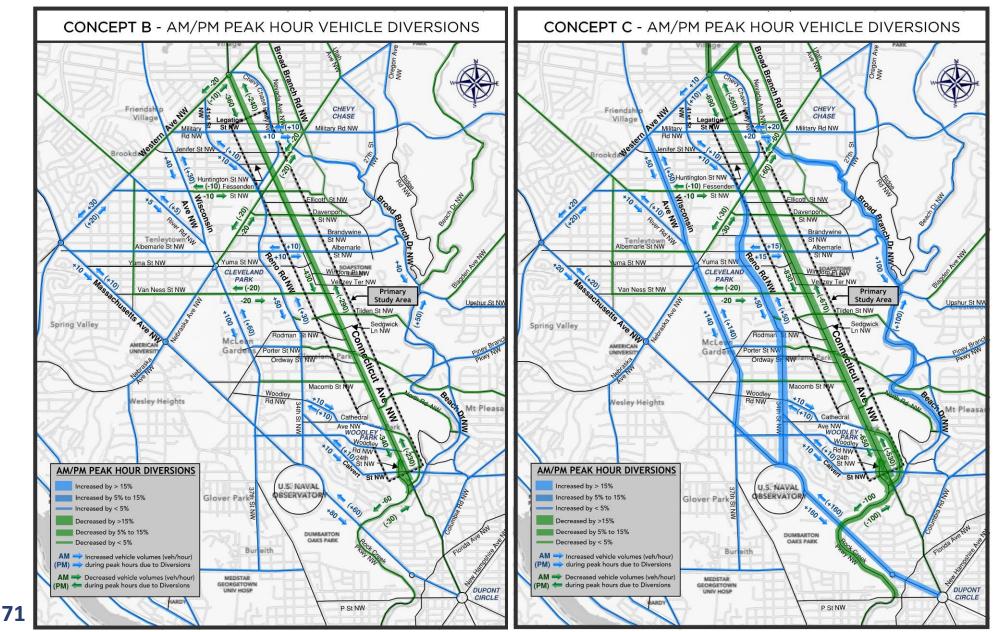
#### **Second-Level Evaluation**

EL BOWSER, MAYOR

- 55-60% of traffic diversions will occur within the secondary study area, while 40-45% of people will travel on regional roadways
- Regional "diversion" roadways include Georgia Ave, Clara Barton Pkwy/ Canal Road, I-495, MacArthur Blvd, and George Washington Pkwy.
- Concept B
  - Total Daily Diversions: 3,160
  - Secondary Study Area Daily Diversions: 1,920
  - Regional Diversions: 1,240
- Concept C
  - Total Daily Diversions: 7,020
  - Secondary Study Area Daily Diversions: 3,890
  - Regional Daily Diversions: 3,130



#### **Concepts B and C Traffic Diversions**



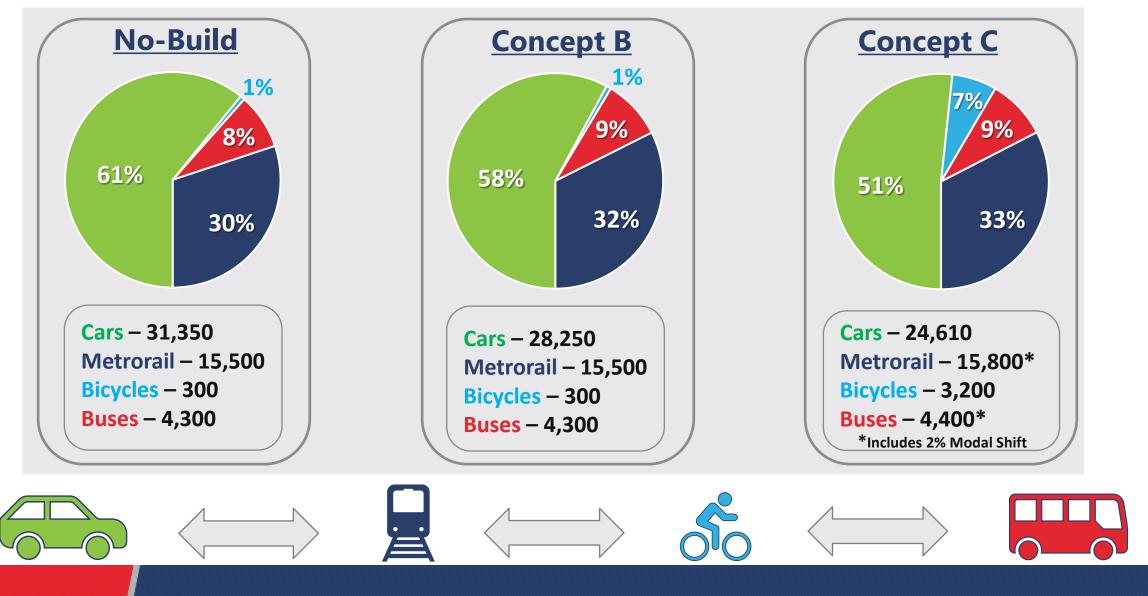
GREEN shows relative decreases in peak hour traffic volumes compared to 2045 No-Build condition.

**BLUE** shows relative increases in peak hour traffic volumes compared to 2045 No-Build condition.



#### **Connecticut Avenue NW - Multimodal Volumes**

#### Second-Level Evaluation





# **SECOND-LEVEL EVALUATION:** CONCEPTS B & C TRAFFIC LEVELS OF SERVICE & DELAY





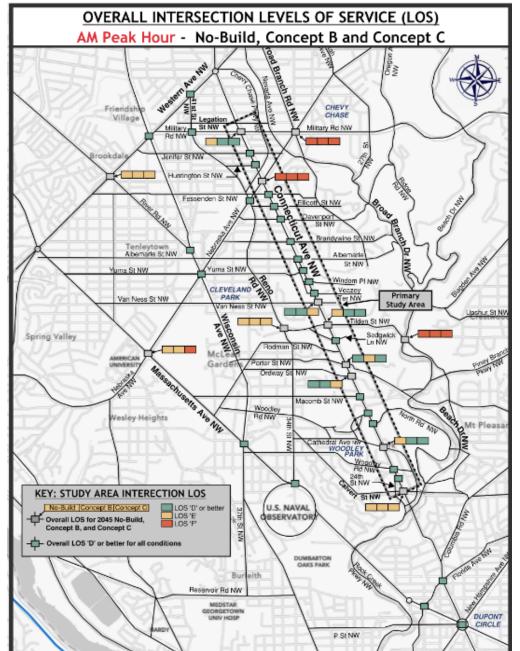
# **Intersection Level of Service and Delay**

- Level of Service (LOS) and Delay, were reported and assessed at each of the study area intersections.
- LOS and Delay
  - See Grading System, LOS "A" to LOS "F"
  - Overall signalized LOS: Average total vehicle delay of all movements through an intersection
- LOS and Delay reported is for the highest one peak hour in the morning and the highest one peak hour in the evening.
- An intersection will likely operate better than what is reported during the balance of the day (approximately 20-22 hours).

LOS	Control Delay per vehicle (seconds per vehicle)
А	≤ 10
В	> 10-20
С	> 20-35
D	> 35-55
Е	> 55-80
F	> 80

d • Conversion of the district of columbia

# **AM Peak Hour Level of Service (LOS) Results**



75

### Primary & Secondary Study Areas - No-Build, Concepts B & C

AM PEAK HOUR	PRIMARY & SECONDARY STUDY AREAS			
	NO-BUILD	CONCEPT B	CONCEPT C*	
# of Intersections with Overall LOS "F"	3	3	4	
(Total # of Study Area Intersections)	(44)	(44)	(44)	
*Traffic demands are different under Concents B and C due to canacity constraints along Connecticut Avenue				

\*Traffic demands are different under Concepts B and C due to capacity constraints along Connecticut Avenue

### Intersections Operating at LOS "F" under 2045 No-Build, Concept B or Concept C conditions:

### **Primary**

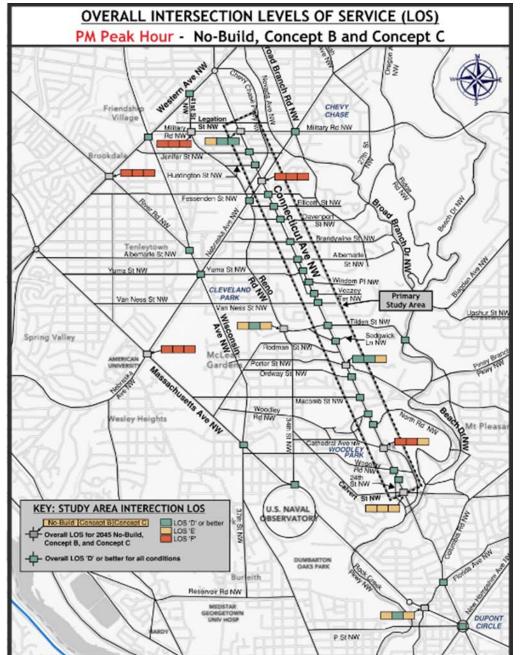
Nebraska Ave & Connecticut Ave (All Conditions)

### Secondary Study Area

- Nebraska Ave & Broad Branch Rd (All Conditions)
- Beach Dr & Park Rd/Tilden St (All Conditions)
- Nebraska Ave & Ward Circle N. ("E" to "F" Concept C)



# **PM Peak Hour Level of Service (LOS) Results**



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### Primary & Secondary Study Areas - No-Build, Concepts B & C

PM PEAK HOUR	PRIMARY & SECONDARY STUDY AREAS			
	NO-BUILD	CONCEPT B	CONCEPT C*	
# of Intersections with Overall LOS "F"	5	5	4	
(Total # of Study Area Intersections)	(44)	(44)	(44)	

\*Traffic demands are different under Concepts B and C due to capacity constraints along Connecticut Avenue

### Intersections Operating at LOS "F" under 2045 No-Build, Concept B or Concept C conditions:

### <u>Primary</u>

- Nebraska Avenue & Connecticut Avenue (All Conditions)
- Cathedral Ave & Connecticut Ave ("F" to "E" Concept C)

### Secondary Study Area

- Western Ave & River Rd (All Conditions)
- Reno Rd & Military Rd (All Conditions)
- Nebraska Ave & Ward Circle N. (All Conditions)



# **Traffic Analysis Conclusions**

- Levels of service (i.e., capacity and delay) for Concepts B and C include diversions to secondary study area and regional roadways.
- Concept C diverts more traffic than Concept B due to one (1) less travel lane.
- Study Area intersections with LOS "F" during highest AM and PM Peak hours:
  - 2045 No-Build: AM/[PM]: 3/[5] of 44
  - Concept B: AM/[PM]: 3/[5] of 44
  - Concept C: AM/[PM]: 4/[4] of 44
- Delays would result for the overall intersection as well as for individual intersection approaches.
- Modeled diversions must occur for traffic operations to operate at acceptable levels of service for some intersections along Connecticut Avenue.



# **Traffic Analysis Conclusions: Travel Time**

- Estimated Travel Times along Connecticut Avenue (i.e., Peak Direction/Peak Hour)
  - AM Peak Hour (Southbound)
    - Concept B/ [C]: +3 minutes/[+7 minutes] compared to 2045 No-Build
  - PM Peak Hour (Northbound)
    - Concept B/ [C]: +4 minutes/[+8 minutes] compared to 2045 No-Build



# **Traffic Analysis – "What-if" Assessment**

- What-if the magnitude of AM and PM Peak Period diversions are less then modeled?
  - Intersection delay would increase; Level of Service (LOS) "F" conditions may not be mitigated by signal timing adjustments.
  - Corridor travel times would be longer.
  - Modal shifts and behavioral changes (e.g., more teleworking) would need to occur.
- What-if Concept B and C (Year 2045) traffic volumes are 10-20% lower than modeled due to modal shifts or behavioral changes such as increased teleworking?
  - Intersections LOS would improve.
  - Corridor travel times would improve.
  - Less diversion would occur.



# QUESTIONS AND COMMENTS









# **Funding and Project Cost**

- This project is not currently funded for design and/or construction.
- Build Alternatives Planning-Level Construction Cost Estimates
  - Concept B: \$1.9 million
  - Concept C: \$4.6 million

## **Your Comments**

- 30 Day Comment Period: We will collect your formal comments over the next 30 days.
- Please send your comments through the Title VI Form for documentation. This form is one of the key avenues through which DDOT documents your formal comments.
  - The Title VI form will be automatically provided when you exit the WebEx General Public Meeting.
  - Please Click "continue" at the close of the meeting when the pop-up window appears, it will take you to the Title VI Form.
  - DDOT will also email the Title VI Form after the meeting; You can also access the Title VI form at <u>rebrand.ly/ctave-titlevi</u>
- **Q&A during this Meeting:** We will keep a record of the Questions & Answers noted during the Public Meeting and will publish them to the project website.



# Title VI Survey – rebrand.ly/CtAve-TitleVI

Closing

#### **GOVERNMENT OF THE DISTRICT OF COLUMBIA** DEPARTMENT OF TRANSPORTATION



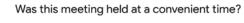
### Title VI Public Involvement Questionnaire

The District Department of Transportation is committed to providing all citizens, regardless of race, color, age, gender, or national origin, the opportunity to participate in and respond to transportation plans, programs, and activities that may affect their community. To help us make sure we are reaching our goal and maintaining compliance with Title VI of the Civil Rights Act of 1964 and all relevant federal and local nondiscrimination laws, we ask that you voluntarily complete the following information. DDOT's Title VI Coordinator will handle the information you provide with confidentiality. For more information regarding DDOT's Title VI Program, please contact DDOT's Transportation Equity and Inclusion Division at 202.671.2700 or ddot@dc.gov.

#### Project/Meeting Name & Date

Connecticut Avenue Reversible Lane Study - March 30, 2021

O Connecticut Avenue Reversible Lane Study - April 1, 2021



O Yes

O No

Next

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As a recipient of Federal assistance, DDOT must ensure that all of its programs, activities and public meetings are conducted in compliance with Title VI of the Civil Rights Act of 1964. This Act ensures nondiscrimination based on race, color or national origin. The Title VI Public Meeting Participant Questionnaire is used to help DDOT ensure that we are informing the public and conducting our meetings in a nondiscriminatory manner, in compliance with Title VI.

Project comments and/or concerns should be submitted through this form after the Public Meeting for documentation. We appreciate anyone who is willing to complete the form.

Thank you for your participation.





## What Happens Next?

- Thank you for your attendance at the General Public Meeting and Learning Rooms today.
- We will collect your comments and prepare a recommendation for DDOT Management to consider.
  - May 1<sup>st</sup> through June 15<sup>th</sup>
- DDOT Management Recommendation by June 30<sup>th</sup>.
- If a Build Alternative is selected, Staff will proceed with developing a 10% Design, followed by Environmental Documentation.
- We anticipate holding Public Meeting #2 at the end of the project study period (Fall 2021).



### **Virtual Office Hours**



Please call: 1-888-484-8424

 We will have telephone hours for those persons who wish to gain further information after Public Meeting #1.
 Virtual Office Hours will occur every <u>Tuesday</u> & <u>Thursday</u> from 2-4 p.m. during the 30-day public comment period.
 Virtual office hours will begin on April 6th and conclude on April 29th.



### **PUBLIC OUTREACH**

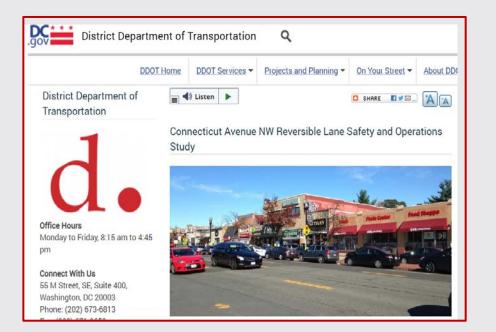
# **Contact Information**



Project Email Conn-Ave-revstudy@dc.gov

### **Project Website**

https://ddot.dc.gov/page/connecticut-avenuenw-reversible-lane-safety-and-operations-study





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### Cynthia Lin, Deputy Project Manager

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# Thank You!

# Title VI Questionnaire to Follow

