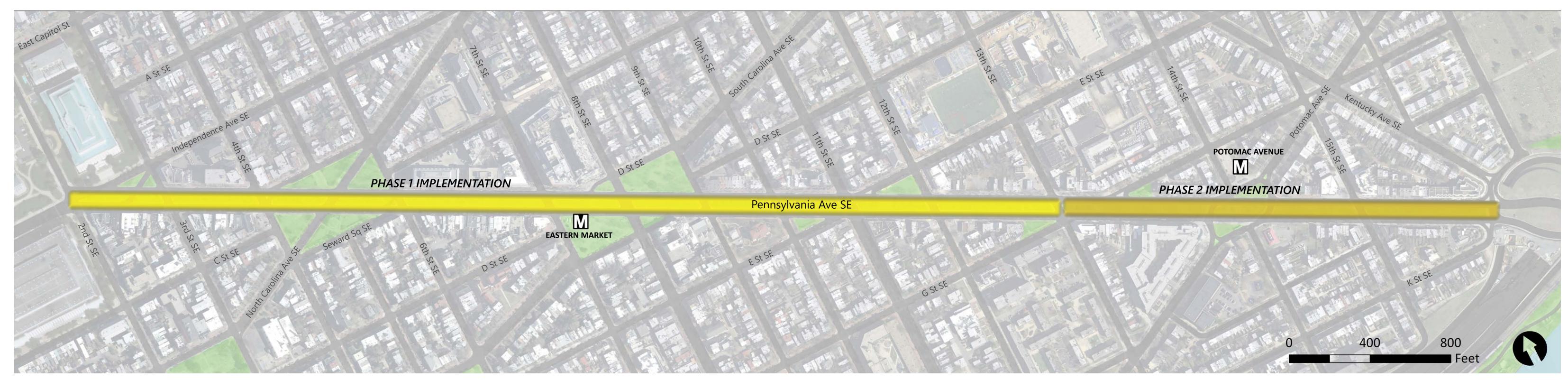
Study Overview





The goal of the Pennsylvania

Avenue SE Corridor Study is to redesign the corridor to provide for safer, more accessible multimodal transportation options.

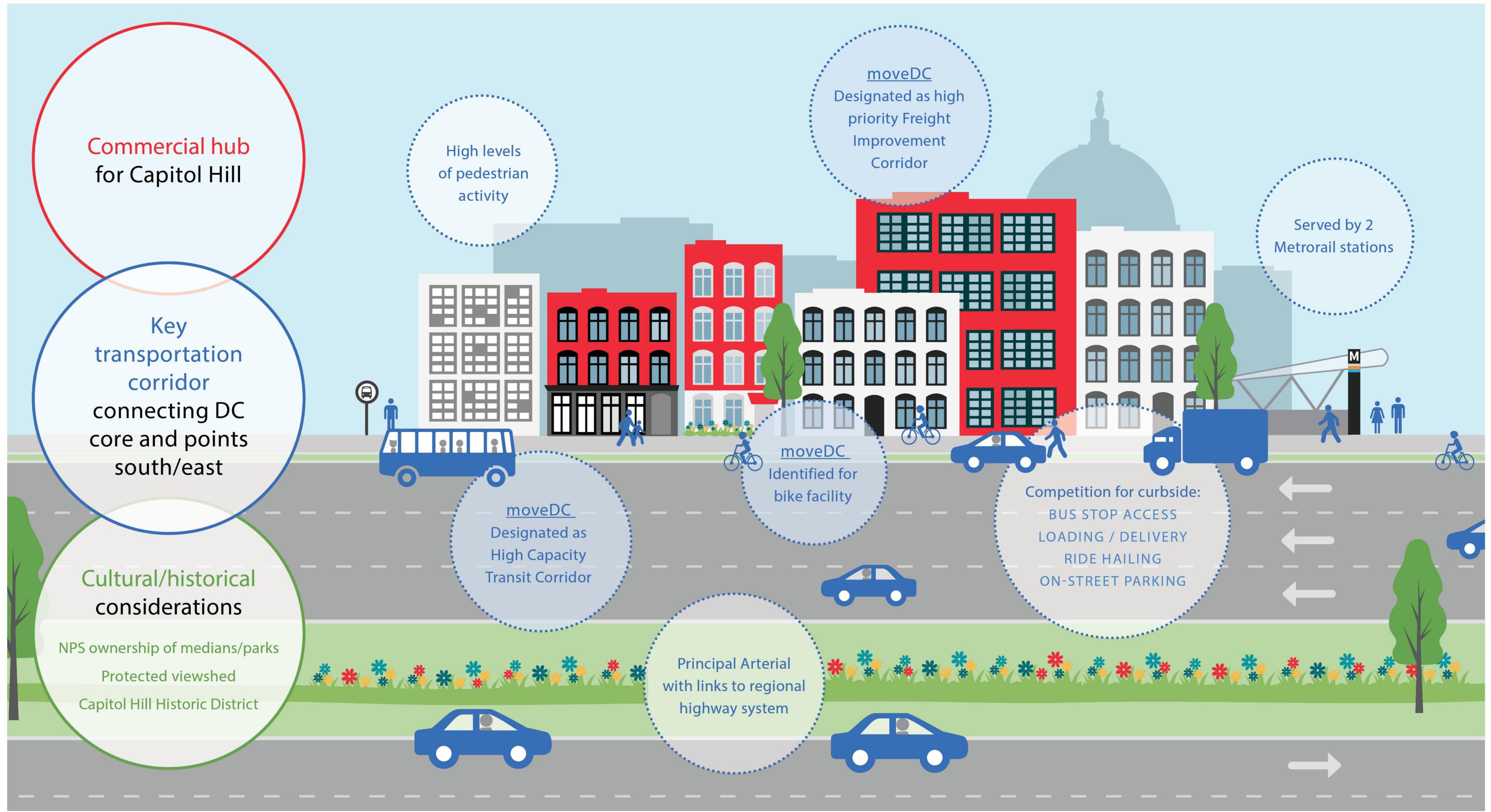
Project Objectives

- Improve mobility, transportation safety, and options for all users
- Provide comfortable, intuitive separated bike lanes
- Evaluate opportunities to prioritize buses
- Equitably reorganize the roadway and curbside for all modes with a cohesive approach to curbside management
- Ensure the project is compatible with planned improvements at Potomac Avenue SE



Planning Considerations

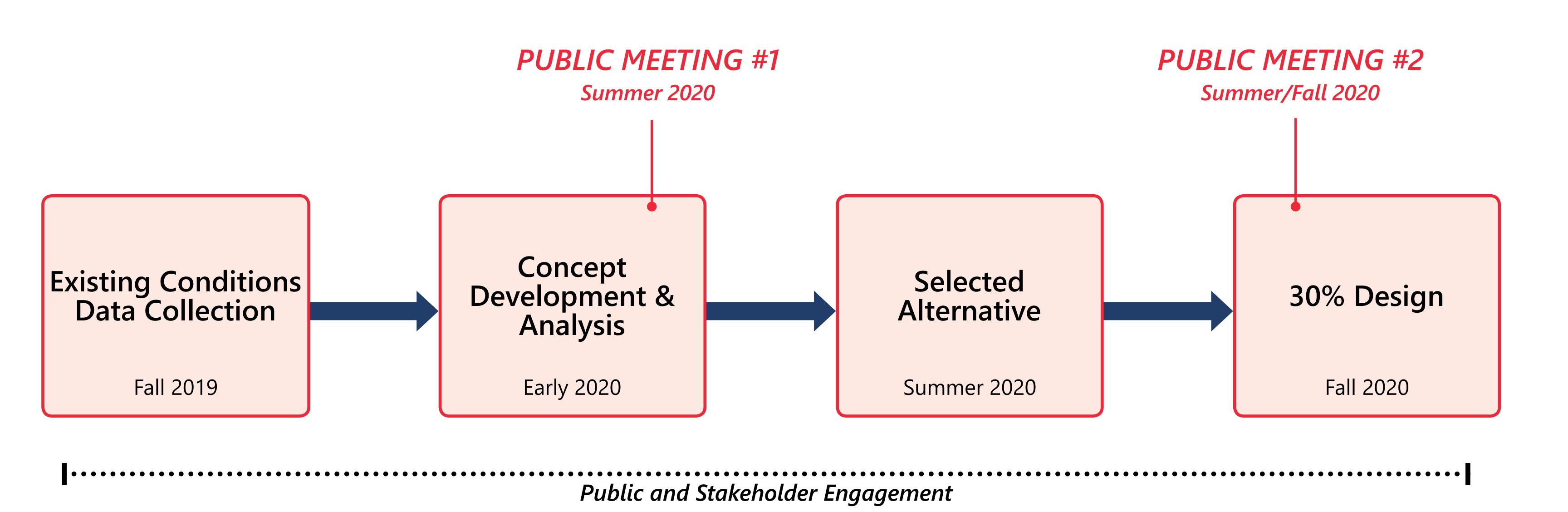






Project Schedule

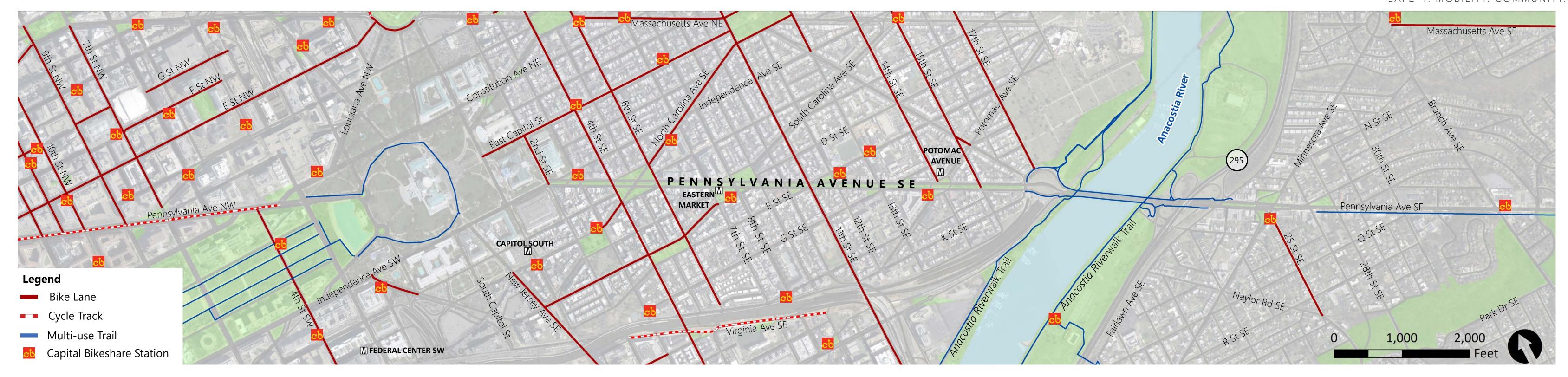






Existing Bike Network







- Identified for a dedicated bike facility in moveDC
- Corridor categorized as very uncomfortable for most cyclists due to lack of dedicated facility on a high-volume roadway
- Missing link in bike network that would provide key connection between DC core and Capitol Hill neighborhood, Wards 7 & 8
- Multiple Capital Bikeshare stations on corridor, high demand for bike parking at Metro stations



Existing Bus Service







- Identified in moveDC as a high-capacity transit corridor and is in WMATA's Priority Corridor Network
- Important corridor for transit, including the 30s Metrobus line
- Bus routes travelling along Pennsylvania Avenue SE serve almost 22,000 riders each day across the entire route
- Up to 18 buses per hour in the AM peak and 24 buses per hour in the PM peak travel along Pennsylvania Avenue SE



Existing Bus Performance

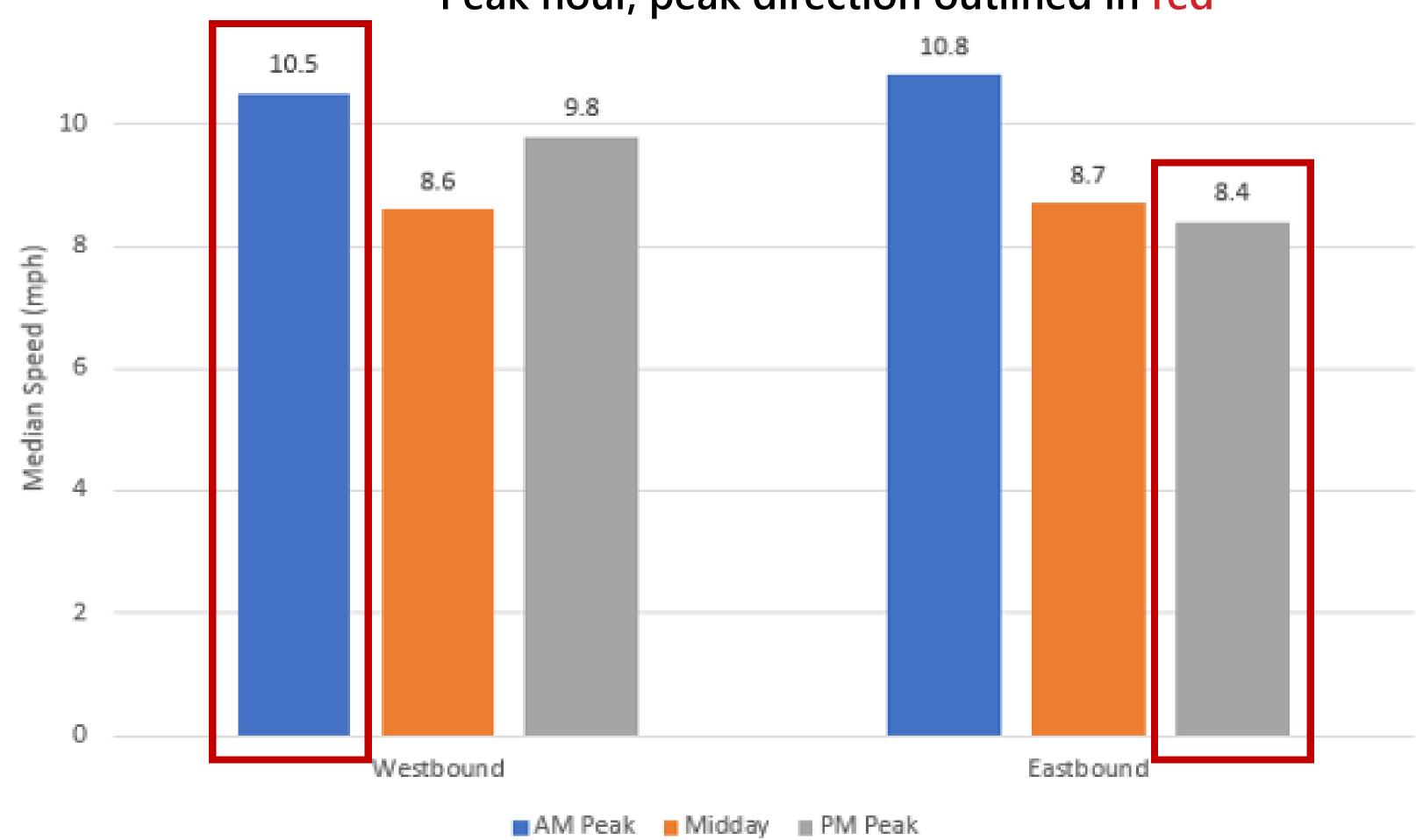






- Bus speeds range from 8 to 11 mph (for comparison, the average bus speed in the District is 10.1 mph)
- Reliability is poor: Metrobus Report Card graded the corridor an "F" for schedule adherence
- This project seeks to explore opportunities to provide bus priority improvements, like bus lanes, to help make transit faster and more reliable.







Curbside Management







Curbside Management Opportunities

Right-sizing bus zones

LEGEND

Frequent Double Parking

Undersized Bus Zone

Undersized Commercial Loading Zone

Frequent Illegal Parking Activity

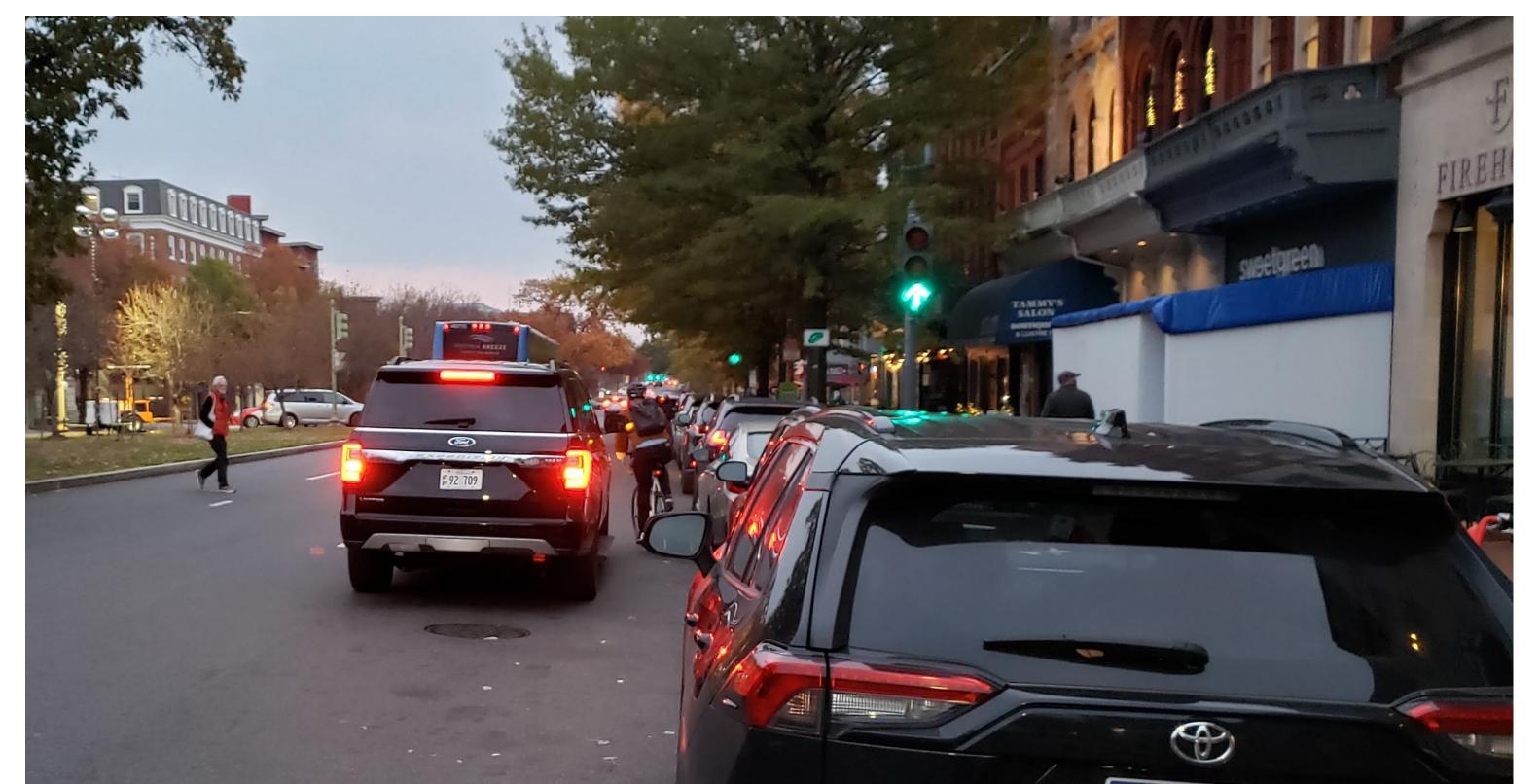
Relocating and right-sizing loading zones

Curb Designation

No Parking

Permit Parking (RPP)

Designating flex-zones for pick-up/drop-off/deliveries





Why Separated Bike Lanes?



Comfort and Safety Perception

Dedicated space and separation provides greater comfort and perceived safety benefits

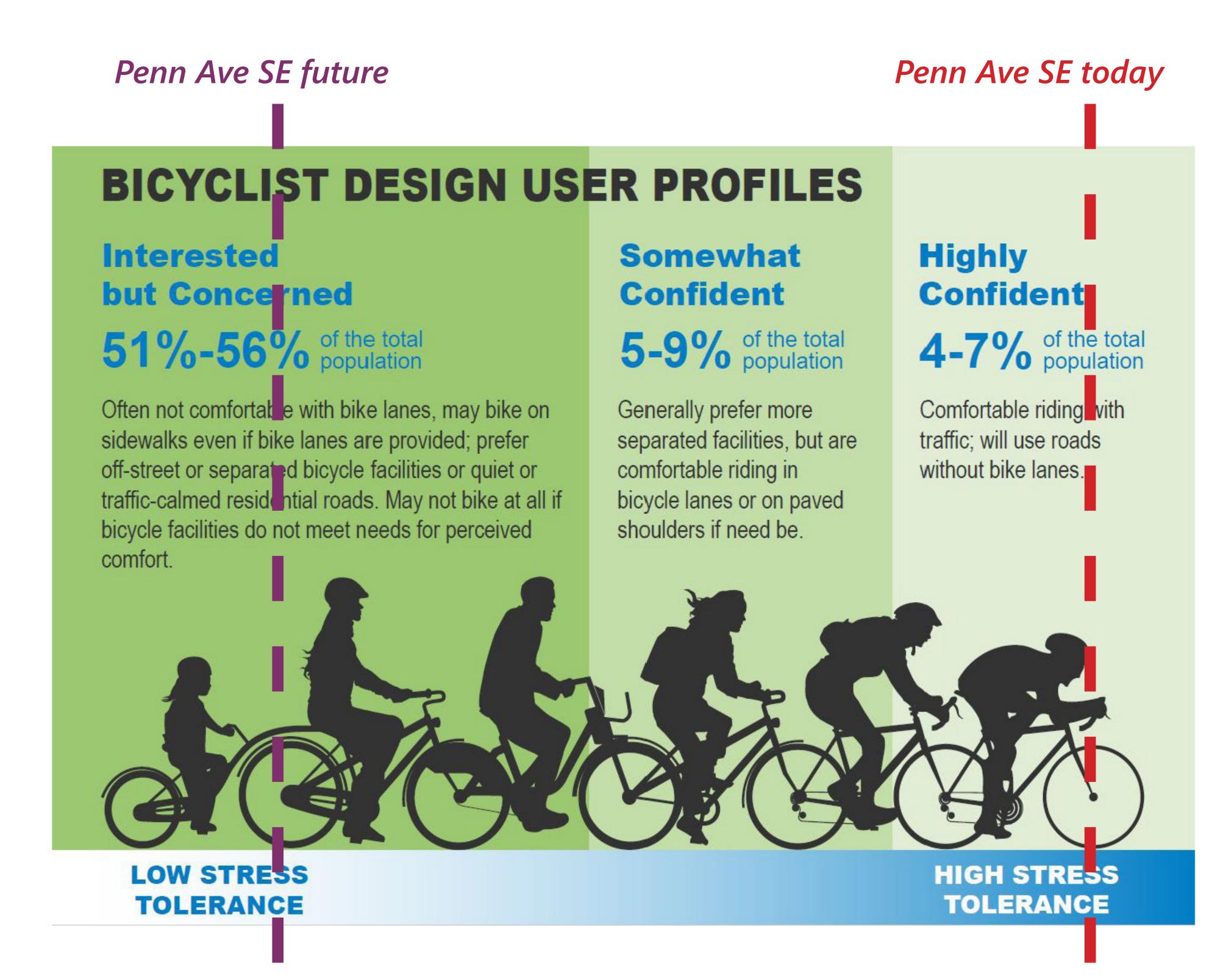
Increased Demand

Separated Bike Lanes attract both new riders and rerouted trips due to comfort level and direct route

Win-Win

Separated Bike Lanes provide intuitive allocation of roadway space that benefits all road users

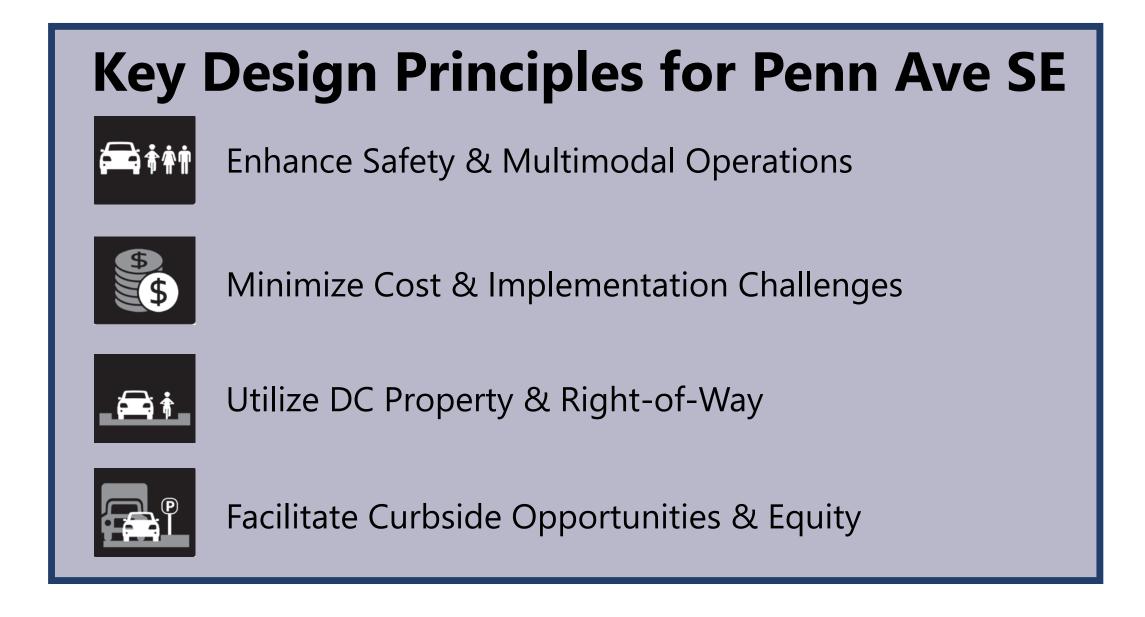
Livability and Economic Development
Separated Bike Lanes improve neighborhood
desirability, business patronage





How Did DDOT Identify the Three Candidate Alternatives?



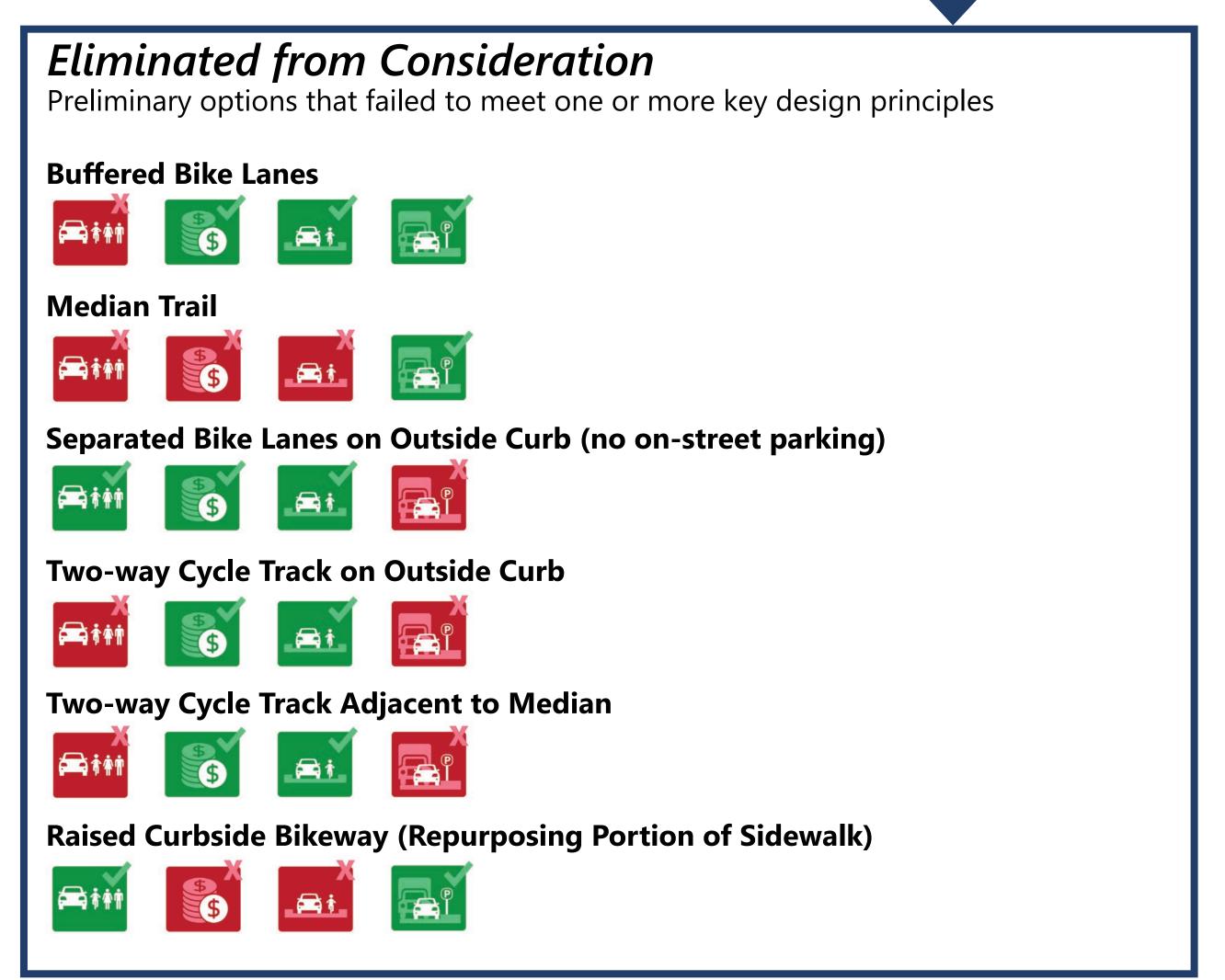


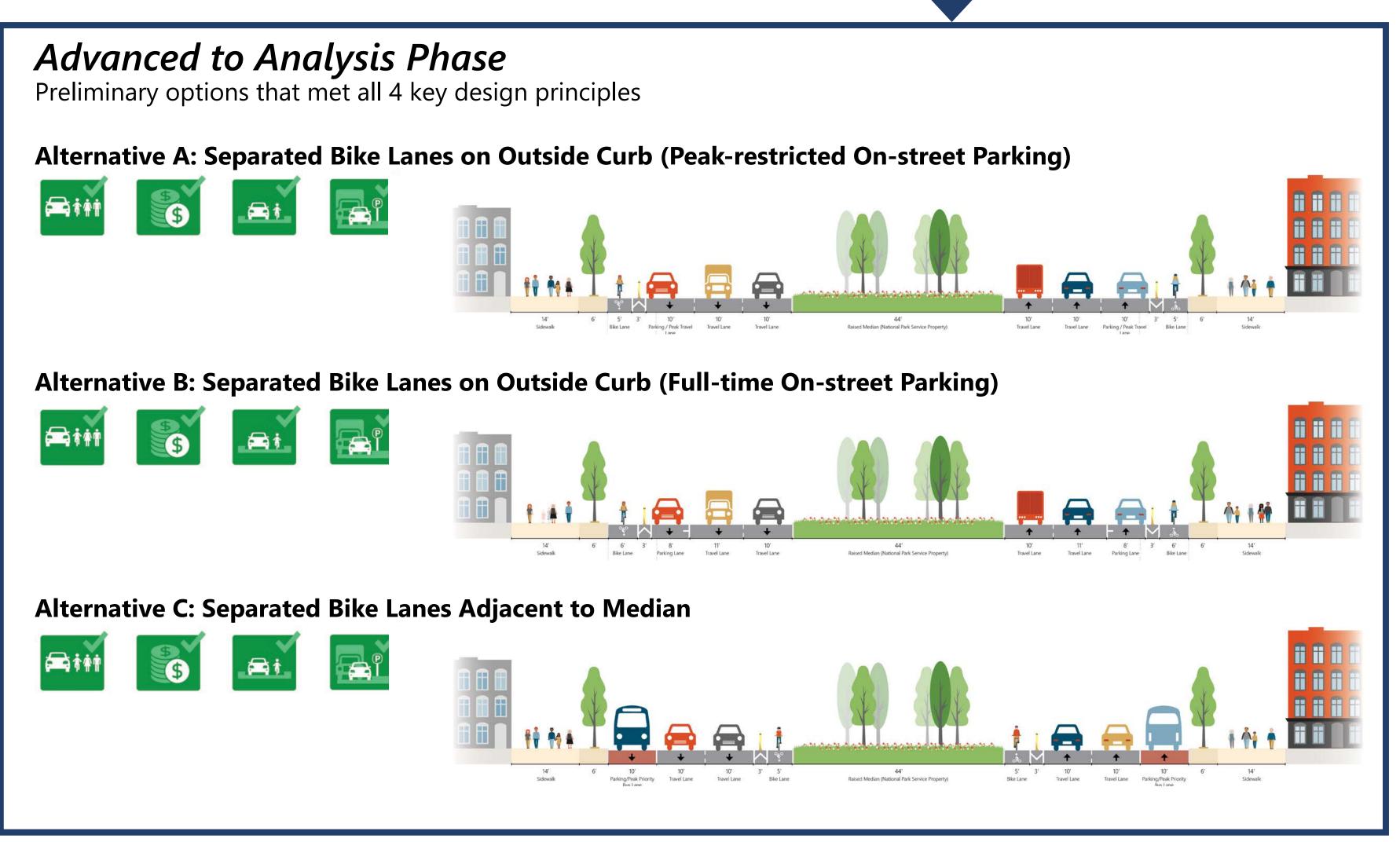
Nine preliminary bike lane options developed based on input from ANC 6B.

Preliminary options evaluated based on key design principles that align with project goals and objectives.

FAILS TO MEET KEY DESIGN PRINCIPLES

MEETS KEY DESIGN PRINCIPLES







intersections with high volume left-

turn conflicts (>75 vph)

Left-turn restriction at 1 intersection

100% of corridor features separation

Separated Bike Lane

Traffic turning left and queuing in

median may impact cyclists

Alternatives Matrix

Parking



Alternative Description	Continuous Separation of Bike Lane	Cyclist Conflicts with Turning Vehicles at Intersections	Cyclist Experience	Bus Rider Access to Bus Stops	Bus Performance	Parking	Traffic Operations	Curbside Regulations and Infrastructure
No Build No dedicated bike lane	% of corridor features separation	No protection from turning vehicles	No dedicated bike lane	Riders board at curbside at existing bus stops	High-frequency service with poor reliability	Approximately 280 existing spaces	Potential for increased delay at 2 intersections during peak hour	Inconsistent distribution of curbside designations and uses Frequent violation of curbside regulations (e.g., double-parking)
Alternative A Separated Bike Lanes with Peak-Restricted Parking	100% of corridor features separation	Protected bike phase at 1 intersection with high volume right-turn conflicts (>150 vph)	Separated Bike Lane Cyclists must yield to bus riders at bus stops	Riders may share space with bike lane while boarding bus	Option for dedicated peak-direction bus lane would improve bus speeds and reliability	Parking prohibited in one direction during peaks (~140 spaces) Off-peak parking unchanged	Without Bus Lane Option: Potential for increased delay at 1 intersection during peak hour With Bus Lane Option: Potential for increased delay at 9 intersections during peak hour	·
Alternative B Separated Bike Lanes with Full-time Parking	100% of corridor features separation	Protected bike phase at 1 intersection with high volume right-turn conflicts (>150 vph)	Separated Bike Lane	Riders cross bike lane to reach floating bus platform	Buses travel in mixed-traffic and likely would get slower and less reliable.	Minimal or no parking losses	Potential for increased delay at 12 intersections during peak hour	Allows for reorganization of curbside Requires some new bus stop configurations
Alternative C Median-adjacent Separated Bike Lanes with Peak-Restricted		Protected bike phase at 5 intersections with high volume left-	Separated Rike Lane			Parking prohibited in one direction	Without Bus Lane Option: Potential for	

Riders board at curbside



Allows for reorganization

of curbside

Potential for

increased delay

at 1 intersection

during peak hour

during peaks

(~140 spaces)

Off-peak parking unchanged

Option for dedicated peak-direction

bus lane would improve

bus speeds and reliability

Potential for

increased delay

at 9 intersections

during peak hour

Bus Stop Treatments





Alternative A
Raised bus stop landing in bike lane

Alternative B
Floating bus stop





Alternative C

Curbside bus stop

