



BROADWAY AT VAN CORTLANDT PARK

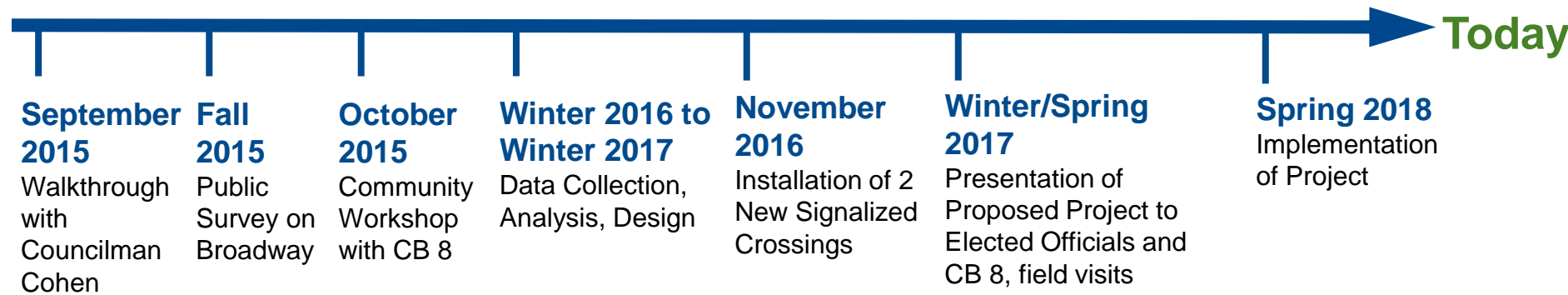
SAFETY AND MOBILITY IMPROVEMENTS

New York City Department of Transportation

Presented by the Bicycle and Greenway Program



Project Timeline



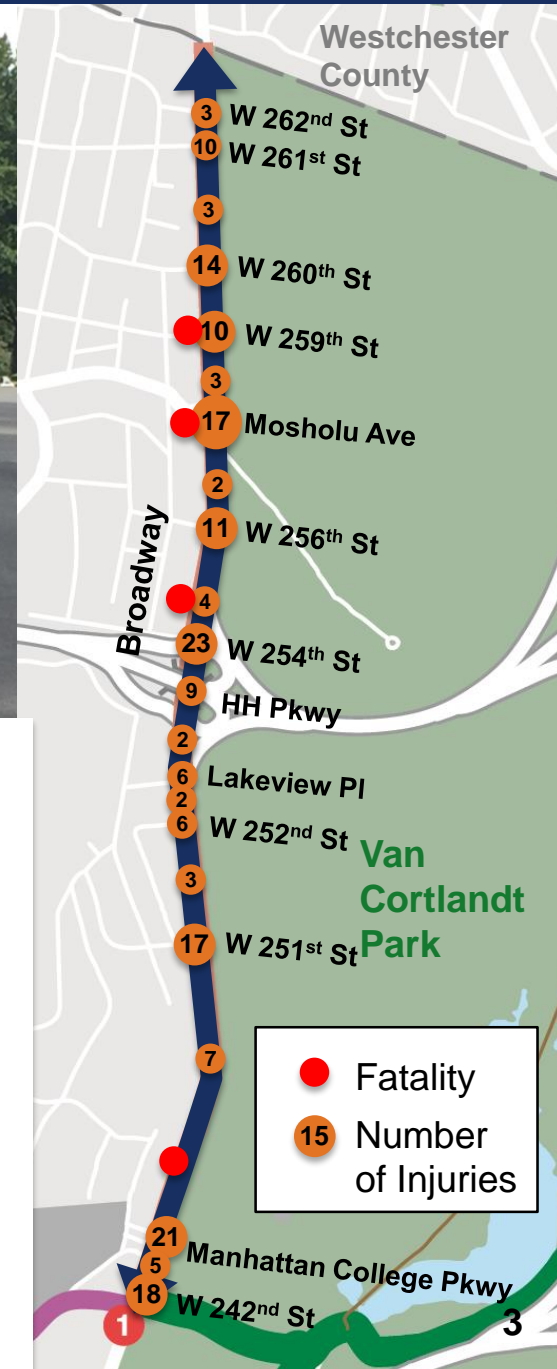


Issue: Safety

11 people, including 5 pedestrians and 1 cyclist, were killed or severely injured on Broadway between W 242nd St and Caryl Ave (2012-2016)

There have been three pedestrian fatalities and one motor vehicle occupant fatality since 2012.

Of the 450+ people surveyed Fall 2015:
38% do not feel safe crossing Broadway
50% cited speeding as their top concern



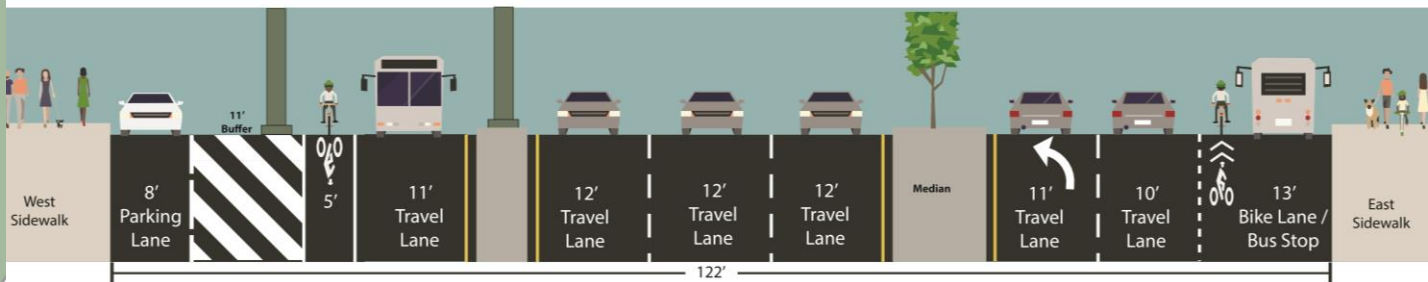
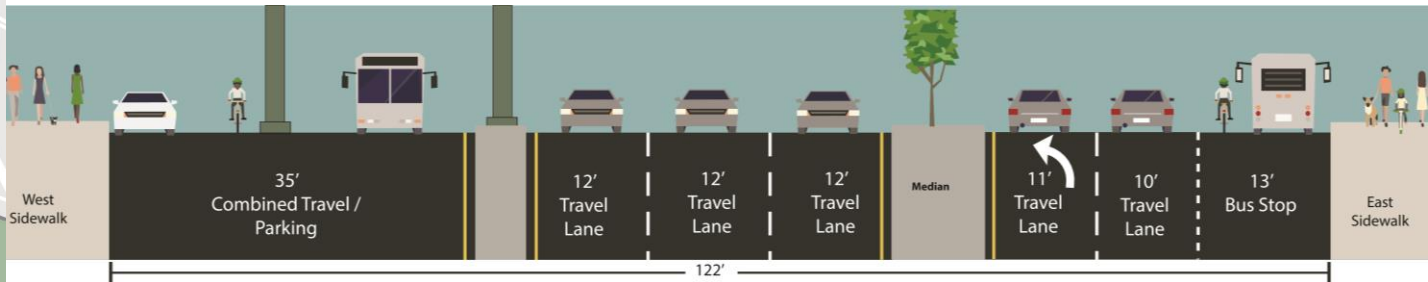
Northbound	Percentage of Vehicles Speeding	Average Speed	Maximum Speed
Daytime	99%	32.8 mph	44 mph
Nighttime	73%	28.6 mph	41 mph

Southbound	Percentage of Vehicles Speeding	Average Speed	Maximum Speed
Daytime	92%	31.7 mph	44 mph
Nighttime	95%	32.1 mph	47 mph

Issue: Safety

Speeding is an issue along the corridor and is especially prevalent during off-peak hours

Source: Daytime radar speed study taken on May 24, 2017 btw. Manhattan College Parkway and W 251st Street on Broadway, nighttime radar speed study taken on March 29, 2017 btw Manhattan College Parkway and W 251st St on Broadway at approximately 8:00 pm.



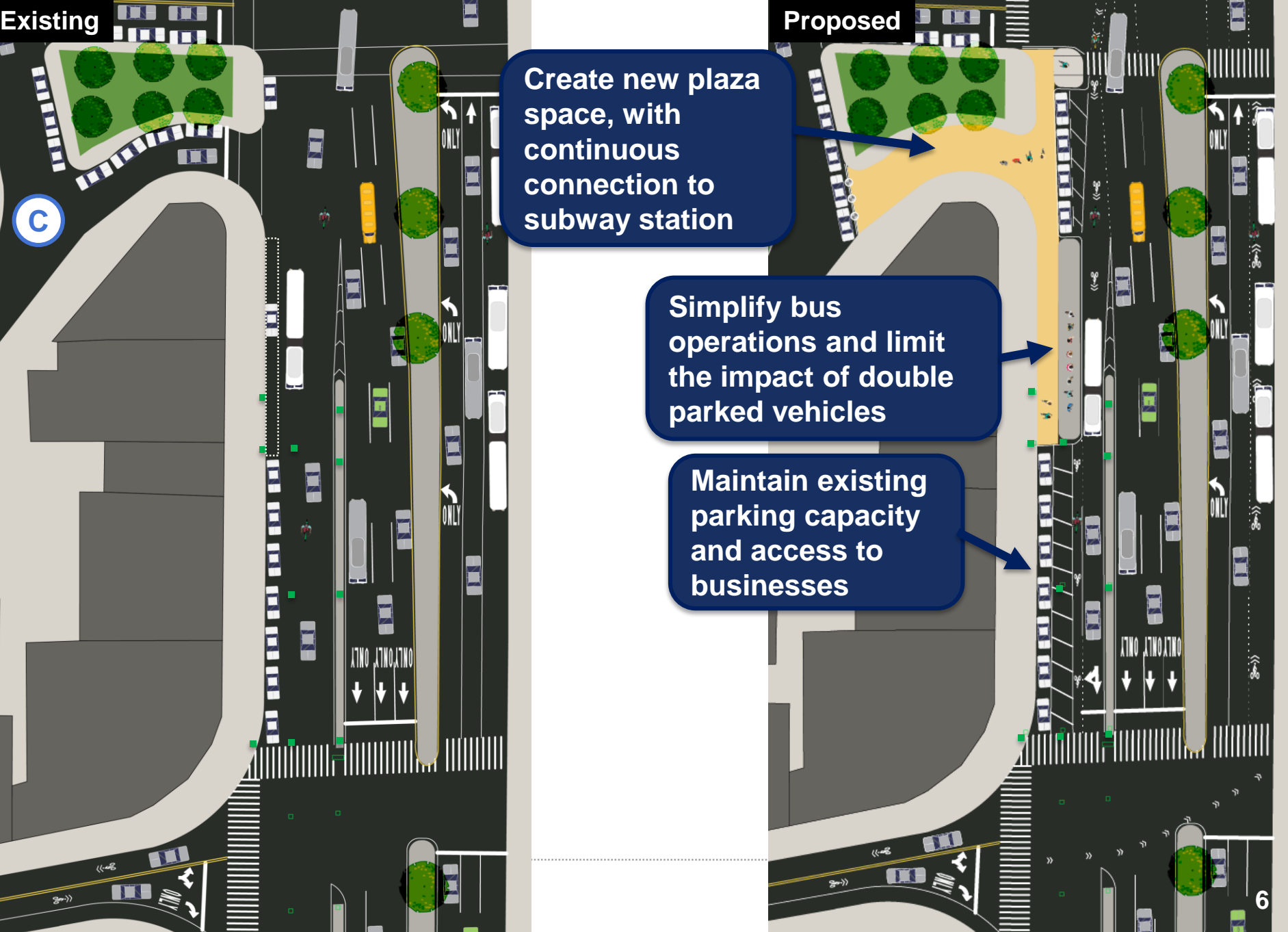
Design

- Conventional bike lane on each side of the street, which transition to a protected design at Van Cortlandt House entrance
- Transition will require removal of 5 parking spaces (~100 ft) to maintain vehicle alignment

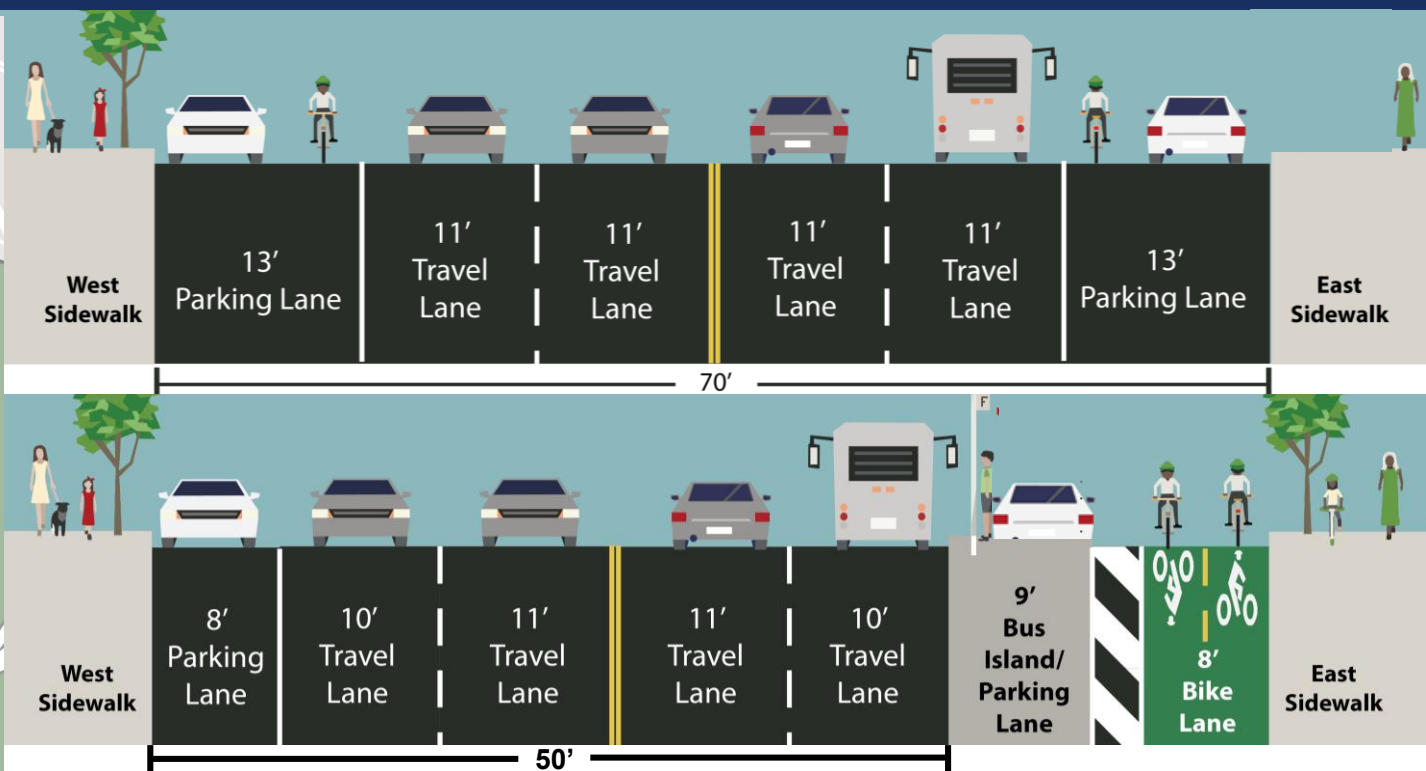
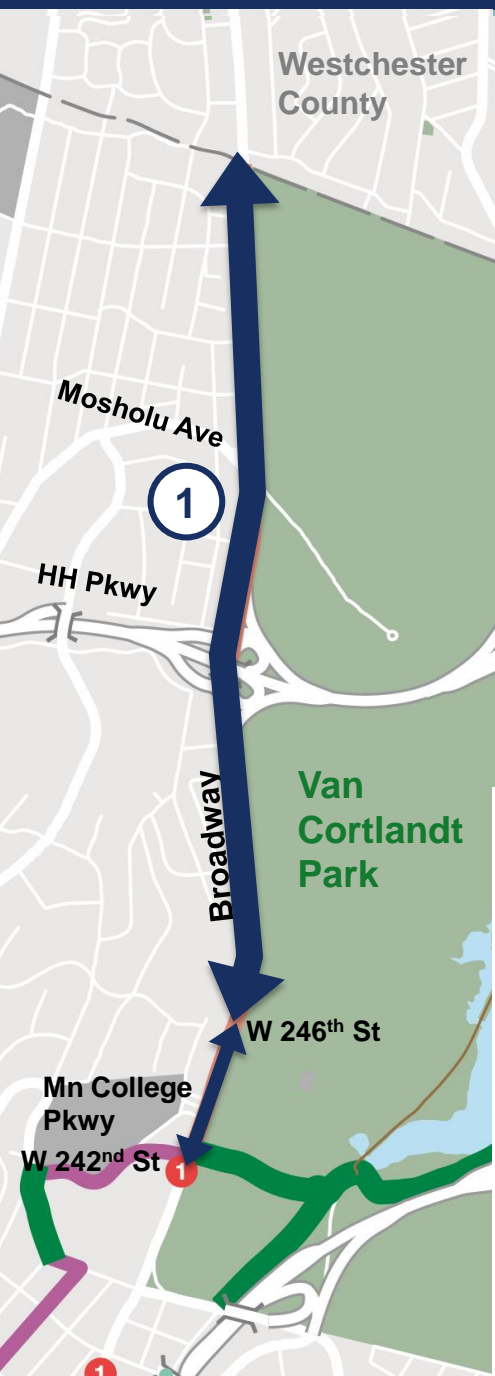
Benefits

- Maintains parking in front of businesses
- Organizes space under the elevated train structure
- Maintains bike lane while minimizing bus conflicts
- Connects to bike facilities at W 242nd St

1 – Broadway Corridor: W 242nd to W 246th St



Broadway Corridor: W 246th St to Westchester County



Design

- Install standard width lanes to narrow roadway
- Add two-way protected bike lane along park edge
- Install bus boarding islands at bus stops

Benefits

- Narrow roadway discourages speeding
- Islands shorten crossings, create ADA compliant bus stops
- Bus loading/unloading happens from travel lane, speeds up service
- Protected bike lane
 - creates new transportation/recreation facility, comfortable for all ages/abilities
 - improves bike access to Van Cortlandt Park, Westchester County trails
 - activates park edge

Crossing distance reduced nearly 30% from 70' to 50'

Protected two-way bike lane along park edge is a neighborhood amenity that provides a **recreation opportunity** for cyclists of **all ages and abilities** and **activates the park edge**

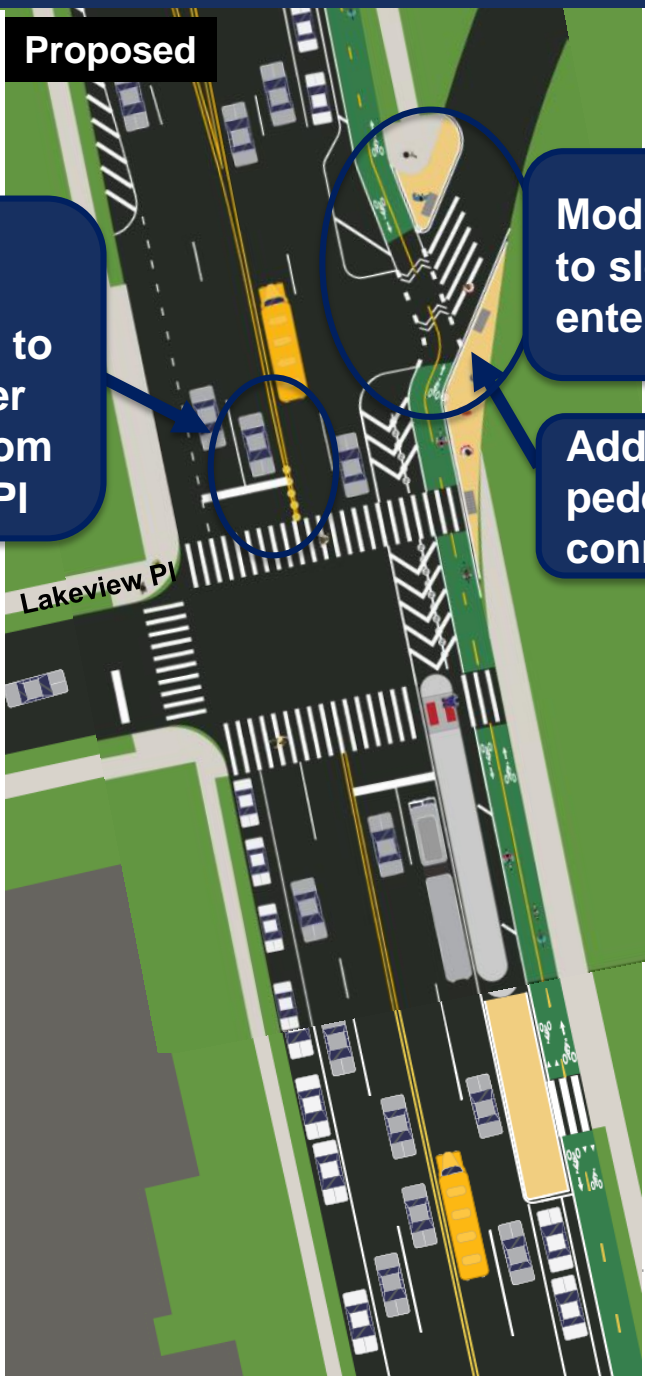


Existing



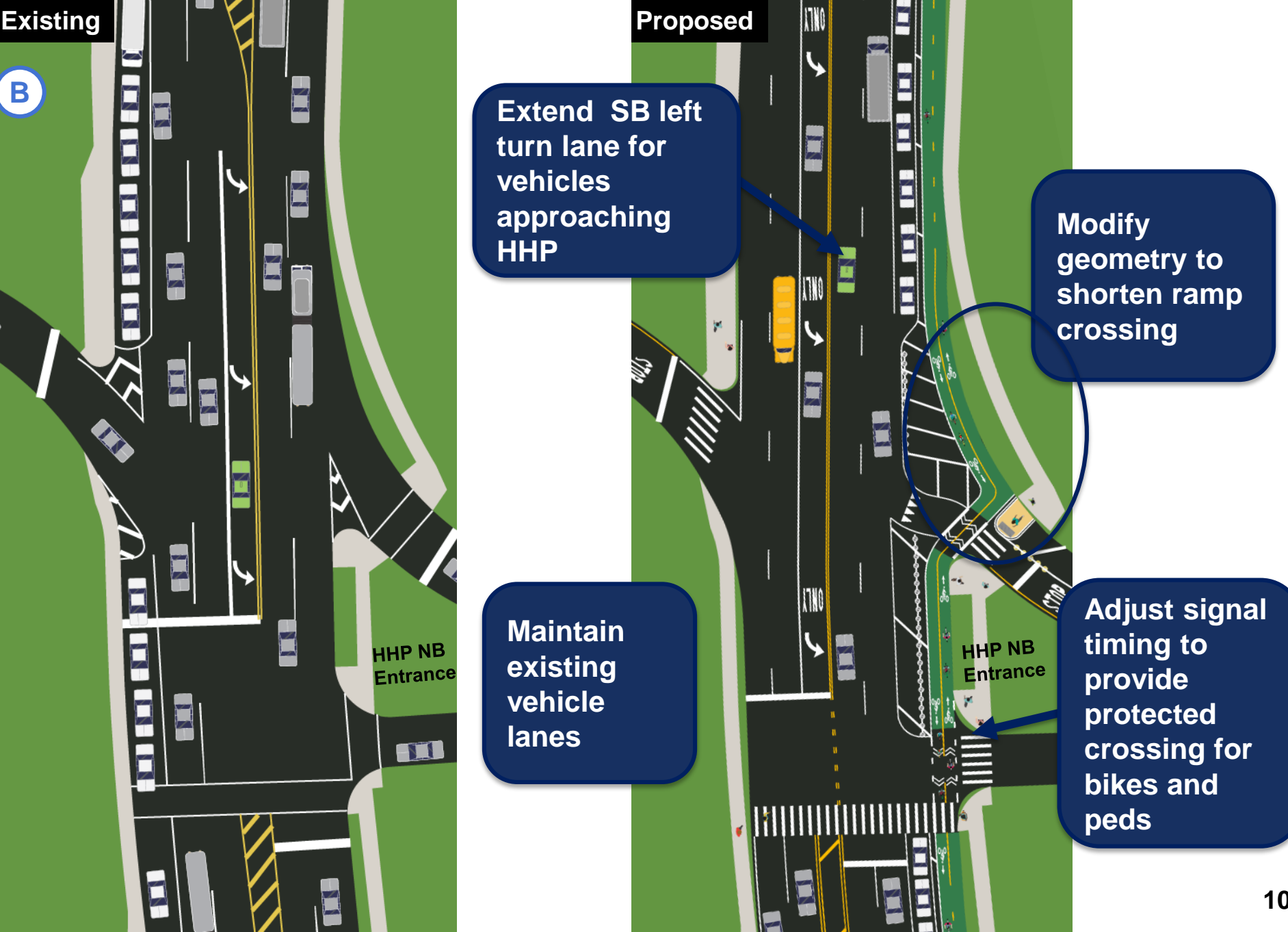
Proposed

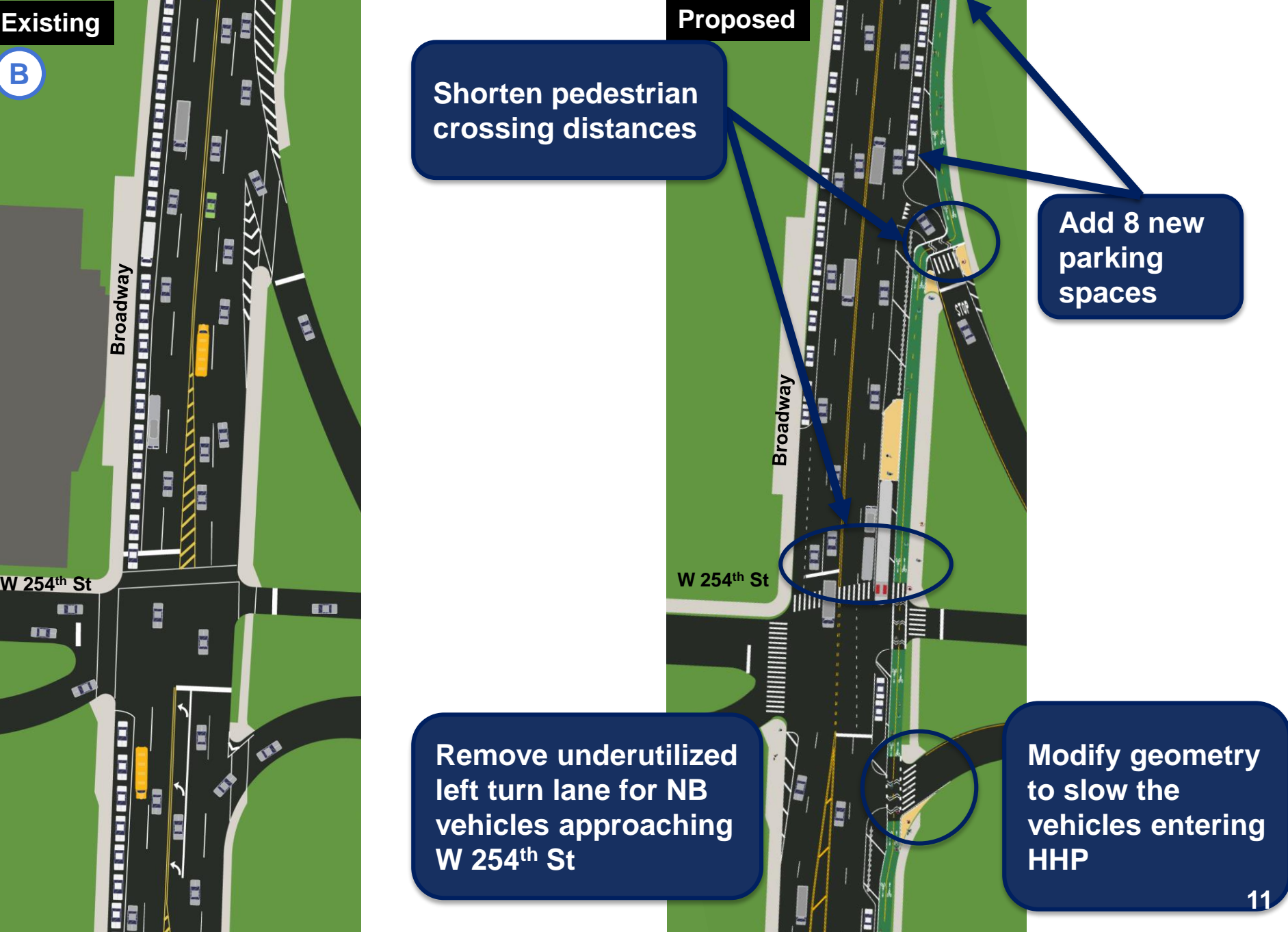
Install hardened center line to create safer left turn from Lakeview Pl

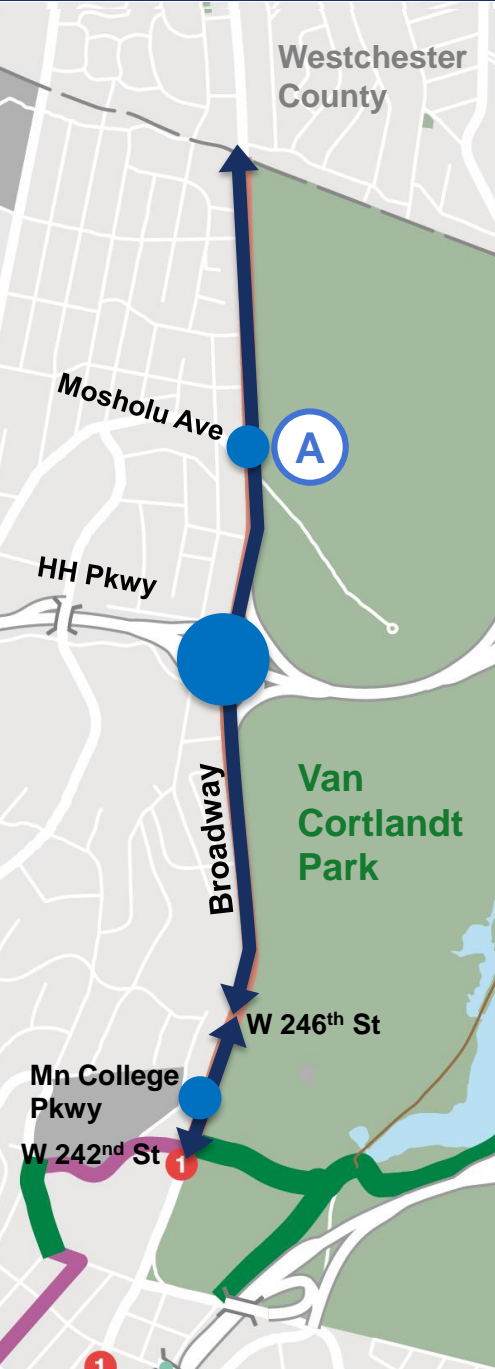


Modify geometry to slow vehicles entering the HHP

Add missing pedestrian connection







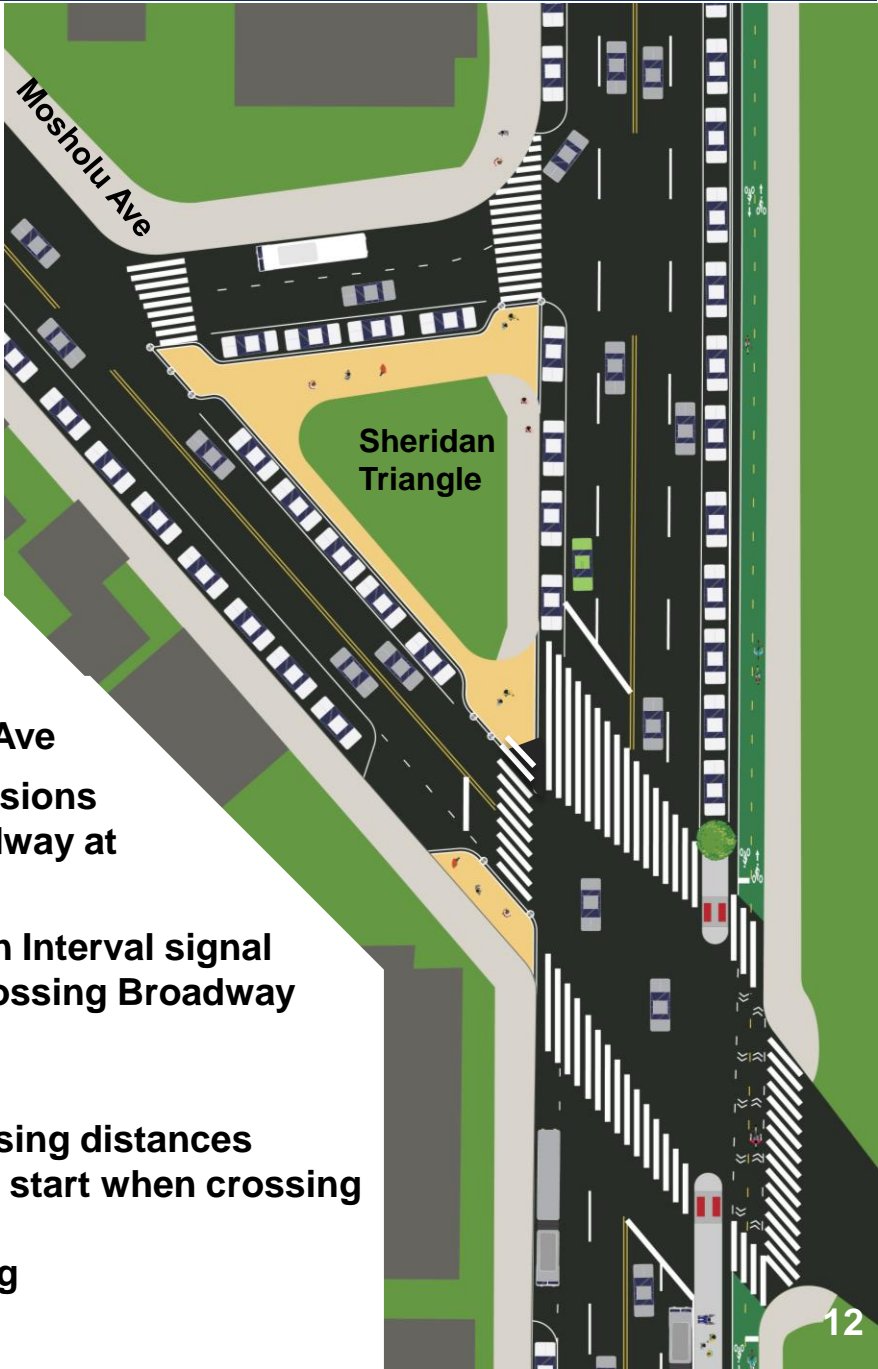
Crossing distance at intersection of Broadway and Mosholu Ave reduced 33% from 120' to 80'

Design

- Install bus boarding and pedestrian safety islands on the east side of Broadway at Mosholu Ave
- Install painted curb extensions on the west side of Broadway at Mosholu Ave
- Install Leading Pedestrian Interval signal timing for pedestrians crossing Broadway

Benefits

- Reduces pedestrian crossing distances
Gives pedestrians a head start when crossing Broadway
- Maintains existing parking



Pedestrian Enhancements

- Crossings shortened by 30% at typical bus stops along the corridor
- Realigned, shortened crossing at Mosholu Ave
- Normalized crossings at entrance/exit ramps
- Shorter crossings and new plaza at Manhattan College Pkwy

Improved access to Van Cortlandt Park, transit, and new public space

Bus Service Improvements

- New bus boarding islands at northbound bus stops between W 246th St and 261st St shorten crossings and speed up service
- New southbound bus boarding island at elevated train station facilitates passenger drop-off and pick-up

Bus islands improve and sped up boarding and alighting experience

Protected Bike Lanes and Conventional Bike Lanes

- Creates new transportation and recreation facility that is comfortable for all ages and abilities
- Improves bike access Van Cortlandt Park, Westchester County trails, and subway station
- Enlivens park edge

New bike path increases transportation options and creates new recreation amenity for the neighborhood

Addition of 8 parking spaces, removal of 5, net gain of 3



THANK YOU!

Questions?



NYC DOT



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