

BROADWAY AT VAN CORTLANDT PARK

SAFETY AND MOBILITY IMPROVEMENTS

New York City Department of Transportation

Presented by the Bicycle and Greenway Program on May 25, 2017



Project Timeline

Today

September 2015

Walkthrough with Councilman Cohen

Fall **2015**

Public Survey on Broadway

October 2015

Community Workshop with CB 8

Winter 2016 to Winter 2017

Data Collection, Analysis, Design

November 2016

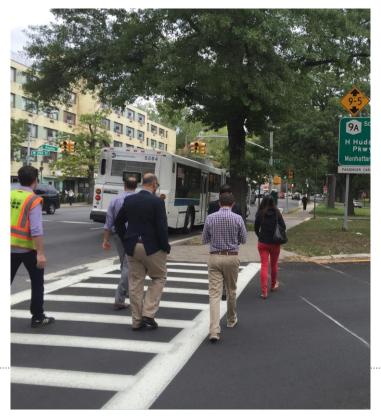
Installation of 2 New Signalized Crossings

January 2017

Presentation of Proposed Project to Elected Officials and CB 8

Winter 2017

Field Visits with Councilman Cohen and CB 8





Presentation Overview

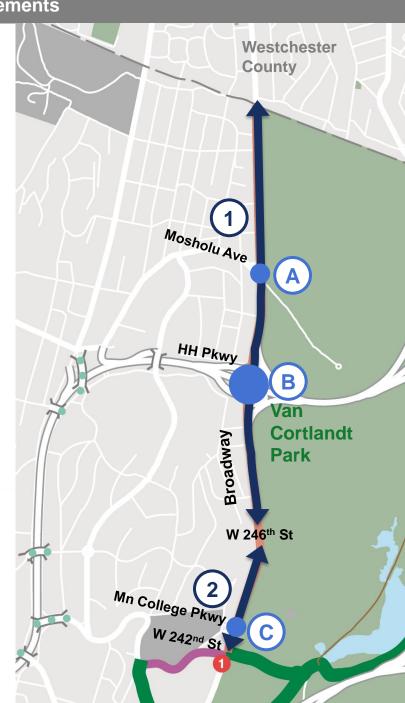
1 - Broadway Corridor

- Overall Issues
- Proposed Corridor Improvements
 - 1 Westchester County to W 246th St
 - 2 W 246th St to W 242nd St

2 - Targeted Intersections

- (A) Mosholu Ave
- B Henry Hudson Entrance/Exit Ramps
- C Manhattan College Parkway

3 - Summary of Benefits



BROADWAY CORRIDOR



Issue: Safety

12 people, including 10 pedestrians, were killed or severely injured on Broadway between W 242nd St and Caryl Ave (2010-2014)

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



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.



Issue: Park Access

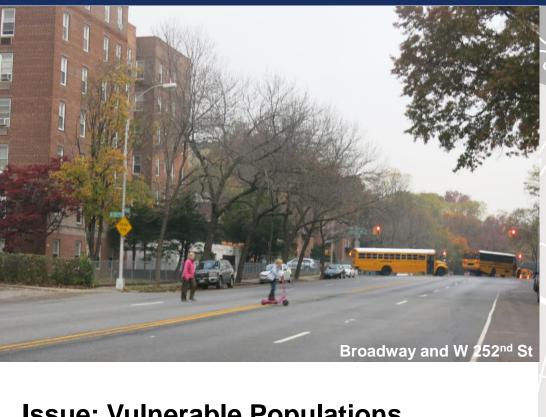
Broadway divides Van Cortlandt Park from the neighborhood

Of the 450+ people surveyed in Fall 2015:

30% come to the park less than once a month

11% never come to the park

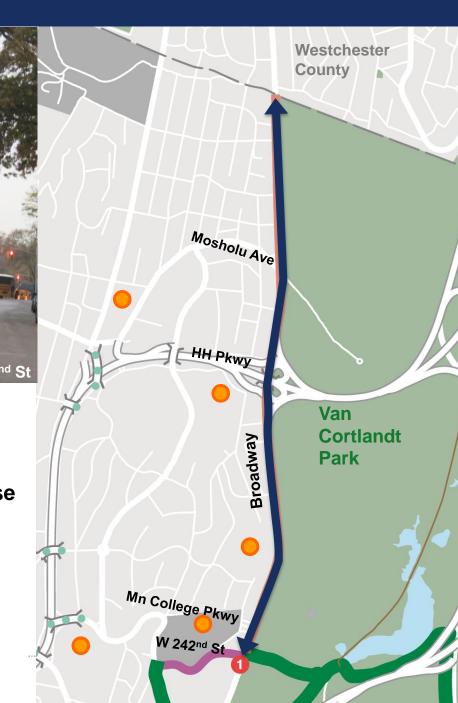
58% would come to the park more often if it was safer to cross Broadway



Issue: Vulnerable Populations

Broadway is close to several schools () whose students regularly use the park

Broadway also has several senior housing developments in this area

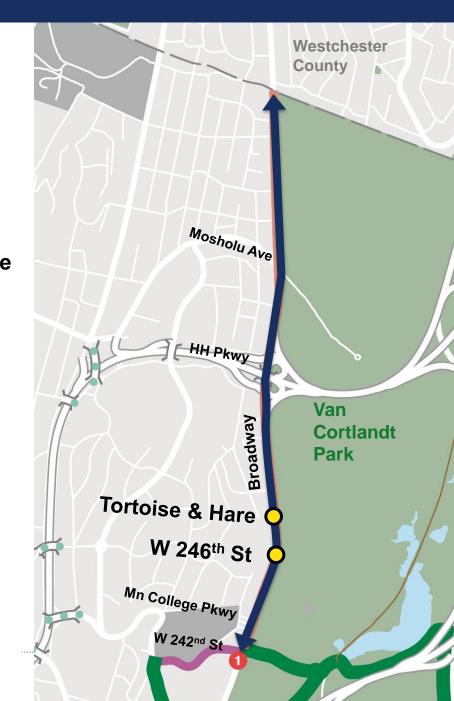


Issue: Infrequent Pedestrian Crossings

- Long distances between crossings from Manhattan College Parkway to W 251st St
- Multiple fatalities between Manhattan College Parkway and W 251st St

DOT Action

- Installed two signalized crossings in November 2016
 - Tortoise and Hare Statue Park Entrance
 - W 246th Street / Museum Entrance





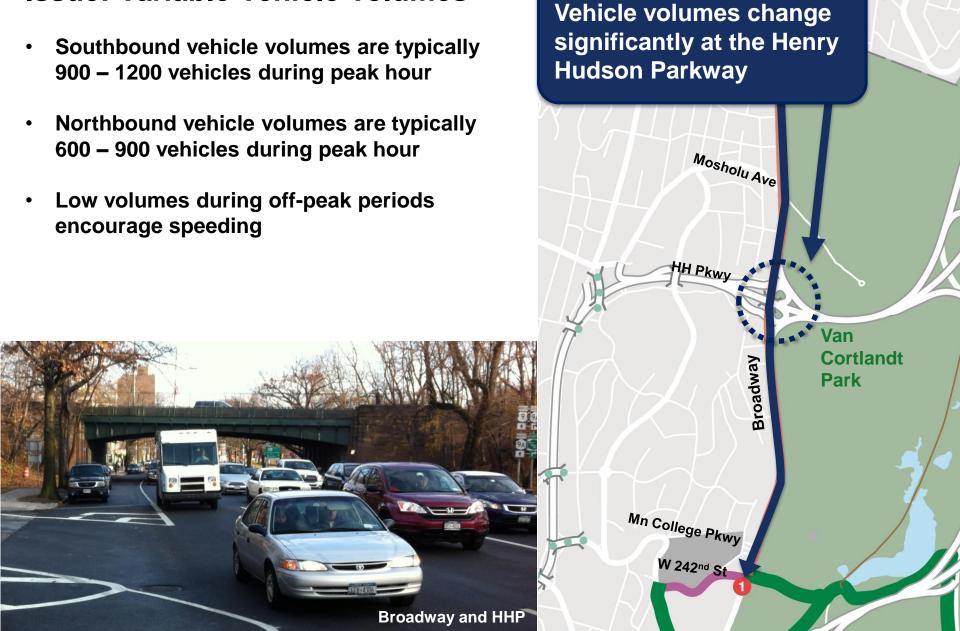
Issue: Important Bus Route

Broadway is an important bus route, serving 8 lines and connecting to the subway

- NYCT Local Buses
- NYCT Express Buses
- Westchester County Beeline



Issue: Variable Vehicle Volumes



Westchester

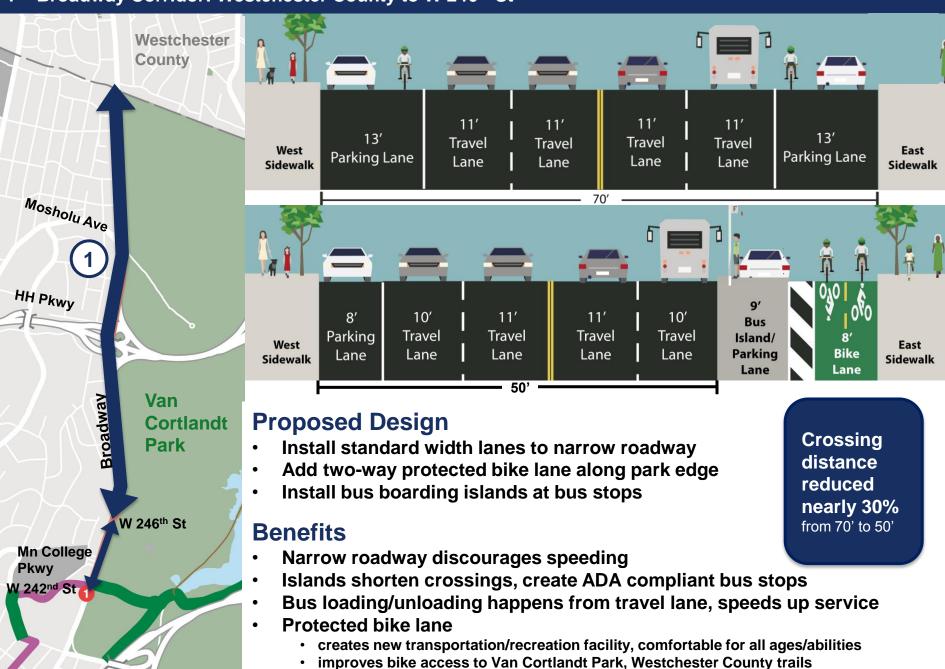
1 – Broadway Corridor: Westchester County to W 246th St



Issues

- Speeding, especially during off-peak hours
- Long pedestrian crossings
- Infrequent pedestrian crossings

1 – Broadway Corridor: Westchester County to W 246th St

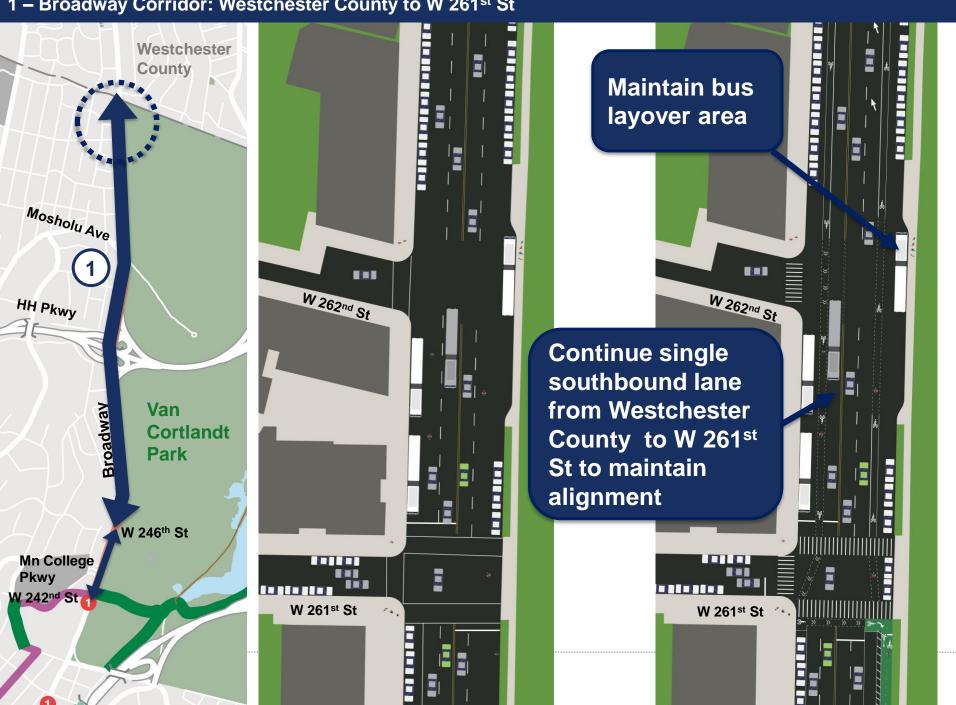


activates park edge

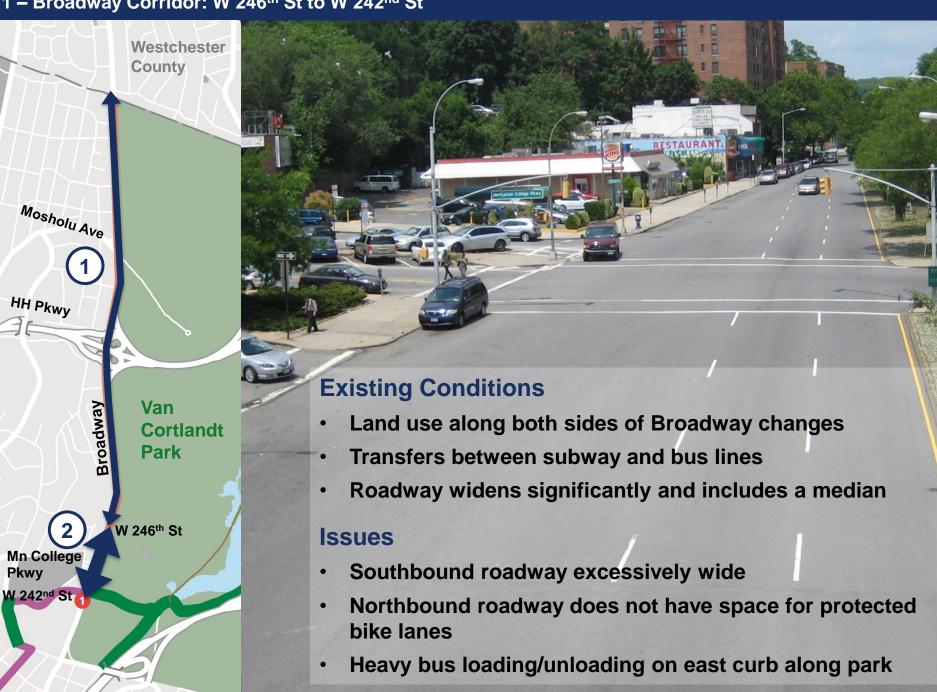




1 - Broadway Corridor: Westchester County to W 261st St



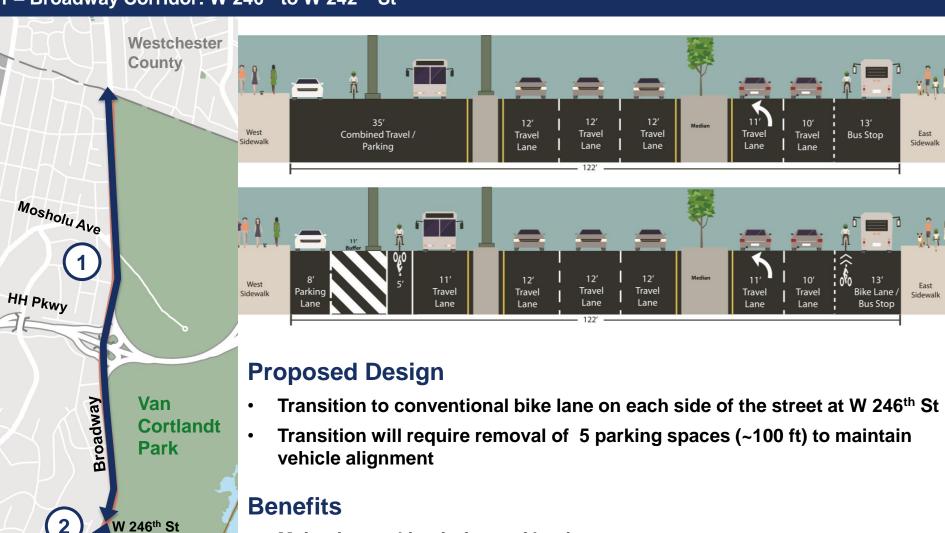
1 – Broadway Corridor: W 246th St to W 242nd St



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

Mn College Pkwy

W 242nd St

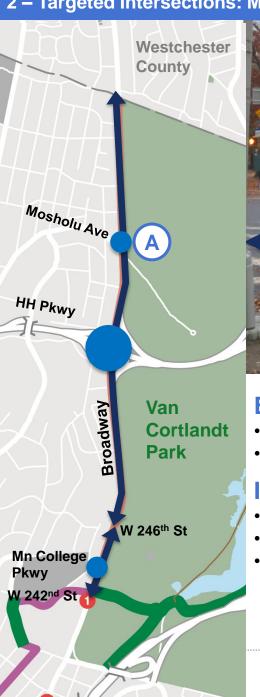


- Maintains parking in front of businesses
- Organizes space under the elevated train structure
- Continues bike lane and minimizes bus conflicts
- Connects to bike facilities at W 242nd St

TARGETED INTERSECTIONS



2 - Targeted Intersections: Mosholu Ave





Existing Conditions

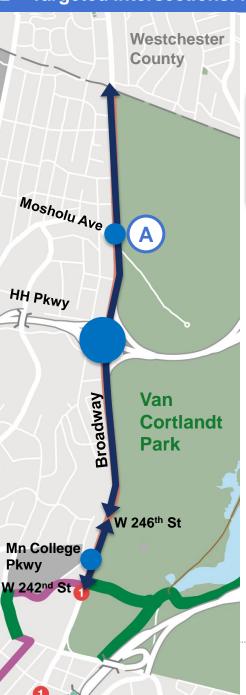
- Angled intersection
- Driveway for NYC DOT and DPR vehicles

Issues

- Angle creates very long diagonal pedestrian crossing
- Radius enables vehicles to take very quick turns
- No sidewalks at Sheridan Plaza

Pedestrian fatalities in 2011 and 2012

2 - Targeted Intersections: Mosholu Ave



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

Proposed 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

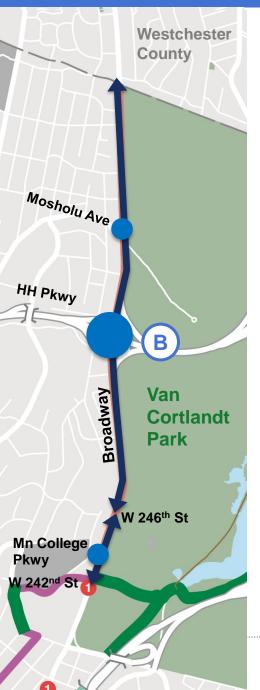
 Mosholu Ave will be accessed only from north side of Sheridan Triangle Sheridan Triangle

 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

2 – Targeted Intersections: Henry Hudson Pkwy Entrance/Exit Ramps



Existing Conditions

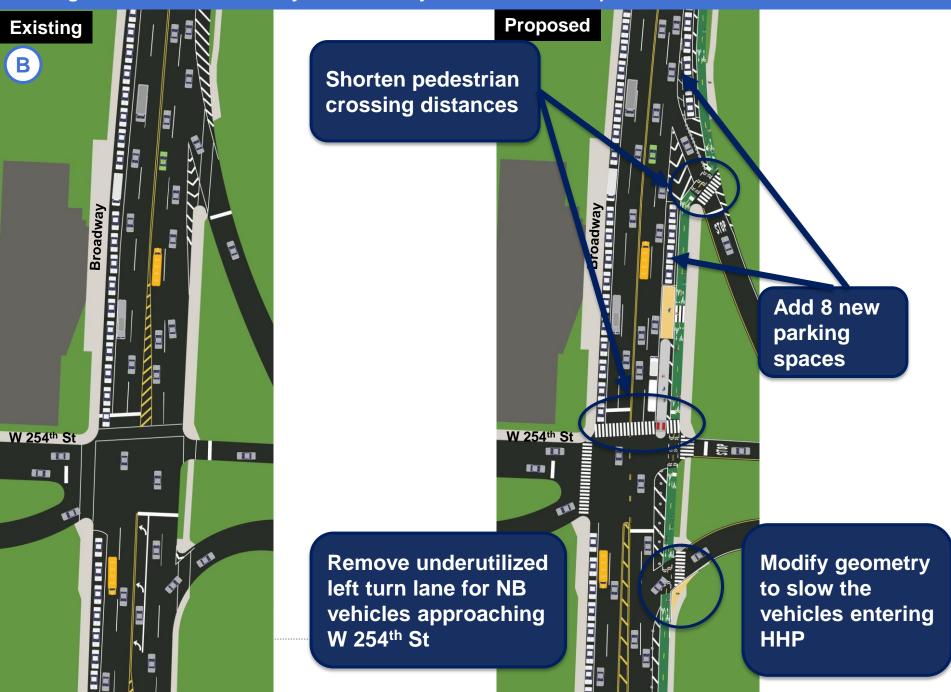
- Uncontrolled ramps crossings
- Angle of ramps facilitates fast vehicular movements
- Long distances to cross at ramps and across Broadway



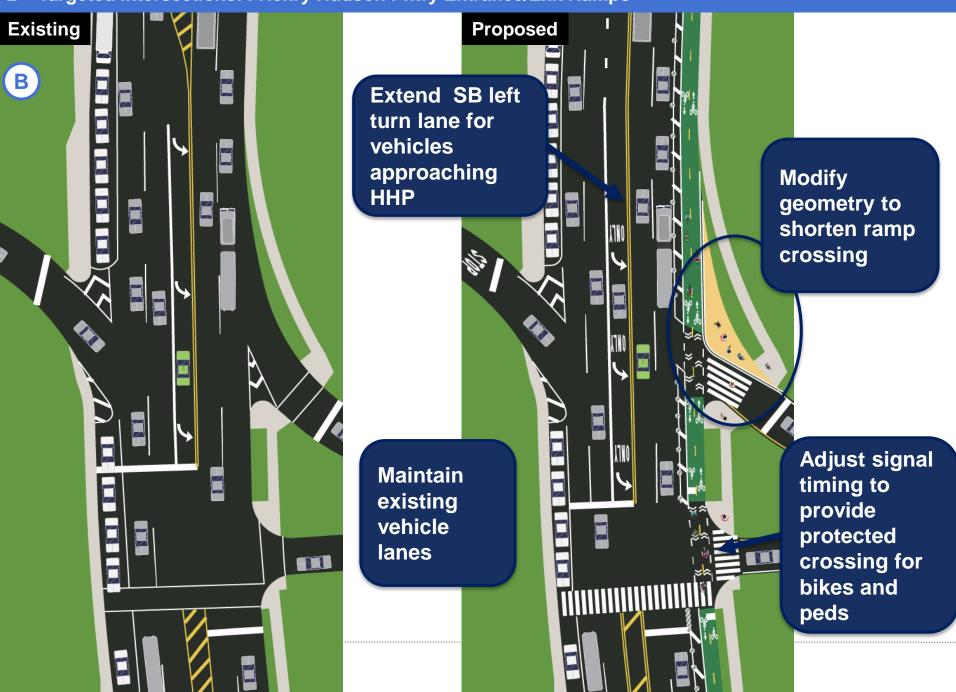


Pedestrian fatality at W 254th St in 2015

2 - Targeted Intersections: Henry Hudson Pkwy Entrance/Exit Ramps



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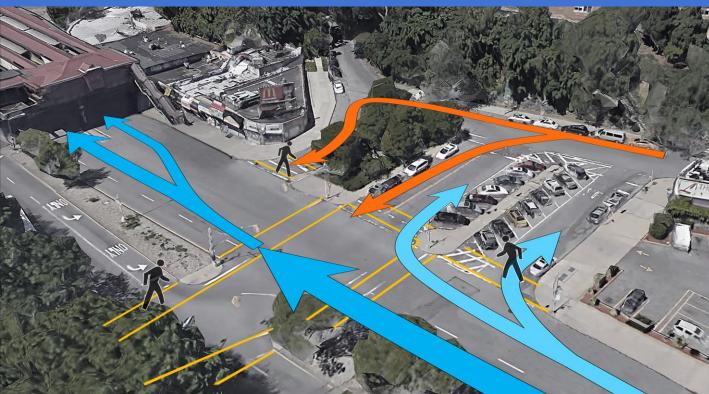


2 – Targeted Intersections: : Henry Hudson Pkwy Entrance/Exit Ramps



2 - Targeted Intersections: Manhattan College Pkwy





Existing Conditions

- SB roadway widens on approach to Manhattan College Pkwy
- Manhattan College Pkwy has WB service road and EB slip lane

Issues

- Long crossing distance (70 ft) from west curb to median
- Redundant slip lane complicates intersection
- Disorganized right turns for southbound motorists
- Bus stop consistently used for private vehicle pick-up and drop-offs



Existing Conditions

- Bus stop at elevated train station
- Columns in roadway divide southbound travel lanes

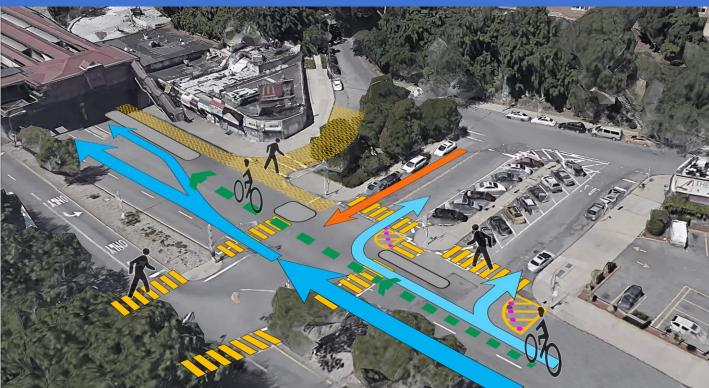
Issues

Buses regularly do not pull to the curb to drop off/pick up passengers



2 – Targeted Intersections: Manhattan College Pkwy





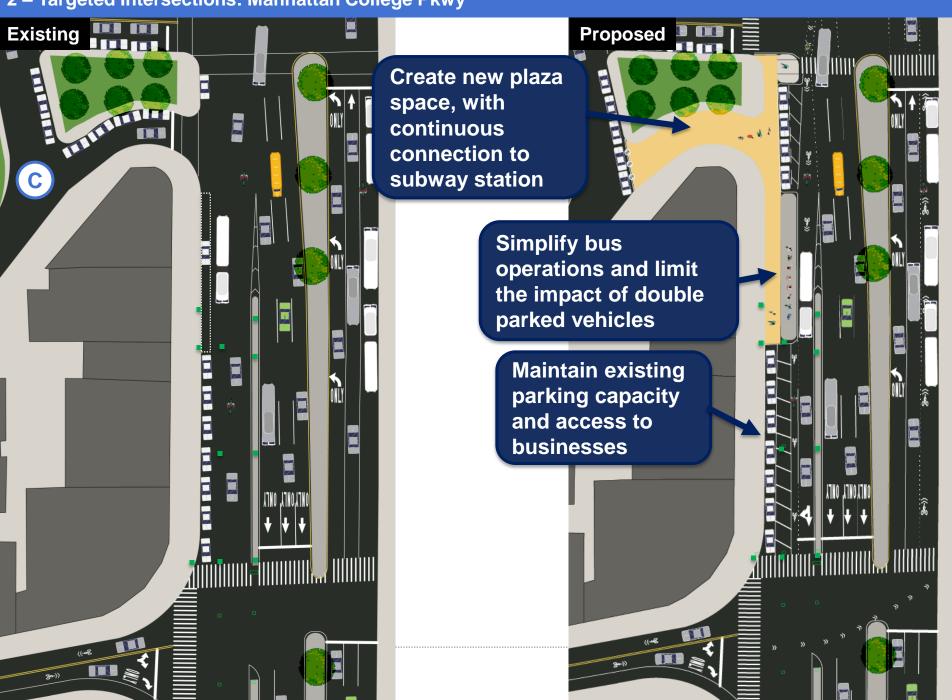
Proposed Design

- Close Manhattan College Parkway slip lane
- Install pedestrian safety islands and right turn wedges in the intersection
- Install bus boarding island at entrance of the 1 train

Benefits

- · Closed slip lane simplifies the intersection and maintains current parking
- Pedestrian safety islands reduce crossing distances for pedestrians
- Right turn wedge slows right turning vehicles at uncontrolled right turn
- Bus boarding island improves safety and convenience of bus operations

2 - Targeted Intersections: Manhattan College Pkwy



PROJECT SUMMARY



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?









