



Brooklyn Ave & Kingston Ave

(Empire Blvd to Winthrop St)

School Safety Improvements

Presentation to Community Board 9 | June 10, 2024

Background

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

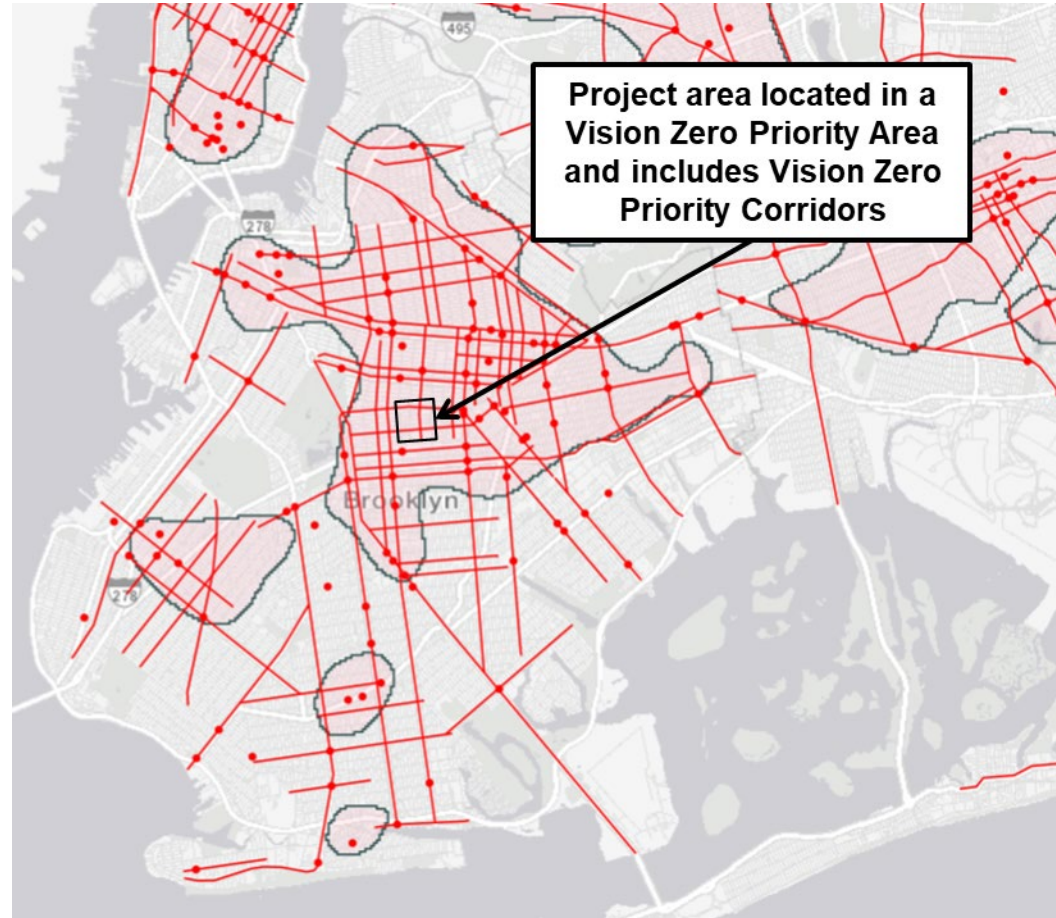
Vision Zero Priority

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2023
- Priority Intersections, Corridors, and Areas identified for each borough

Brooklyn Ave & Kingston Ave

- Located in a Vision Zero Priority Area
- Kingston Ave, Rutland Rd, and Empire Blvd are Vision Zero Priority Corridors



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Why Are We Here?

- 10+ schools within a block of Brooklyn Ave or Kingston Ave
- High volumes of students around arrival and dismissal times
- Concerns from neighborhood schools and CB 9 about speeding and dangerous driver behavior on Brooklyn Ave and Kingston Ave
- Complaints about drag racing on Kingston Ave in front of George Wingate Campus



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

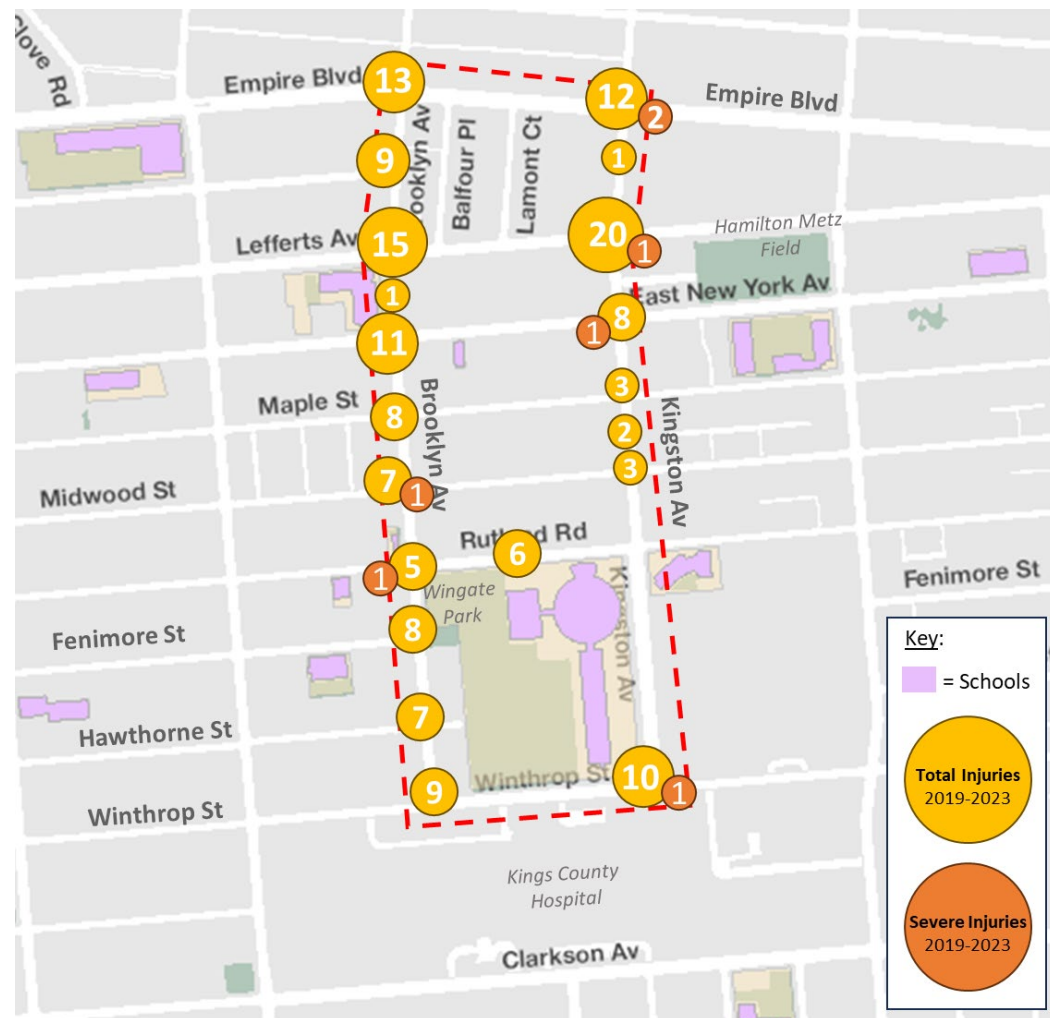
Injury Data (2019-2023)

- 158 total injuries
- 71% of severe injuries were pedestrians or cyclists
- 50% of pedestrian injuries happened while crossing with the signal
- Children (ages 1-17) made up 14% of pedestrian and cyclist injuries

Injury Summary, 2019-2023 (5 Years)

Mode	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	28	1	0	1
Bicyclist	25	4	0	4
Motor Vehicle Occupant	102	2	0	2
Other Motorized	3	0	0	0
Total	158	7	0	7

Source: Fatalities: NYCDOT, Injuries: NYPD FORMS database KSI: Persons Killed or Severely Injured



Existing Conditions

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Speeding and Drag Racing



Wide roadways with low traffic volumes encourage speeding

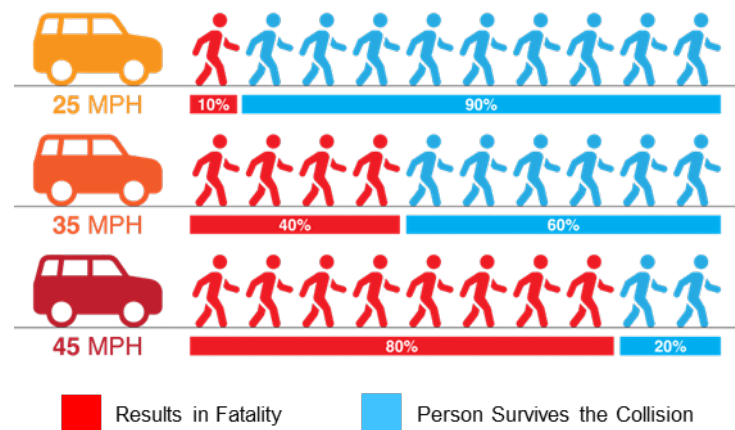
Concerns about drag racing and dangerous driving behavior



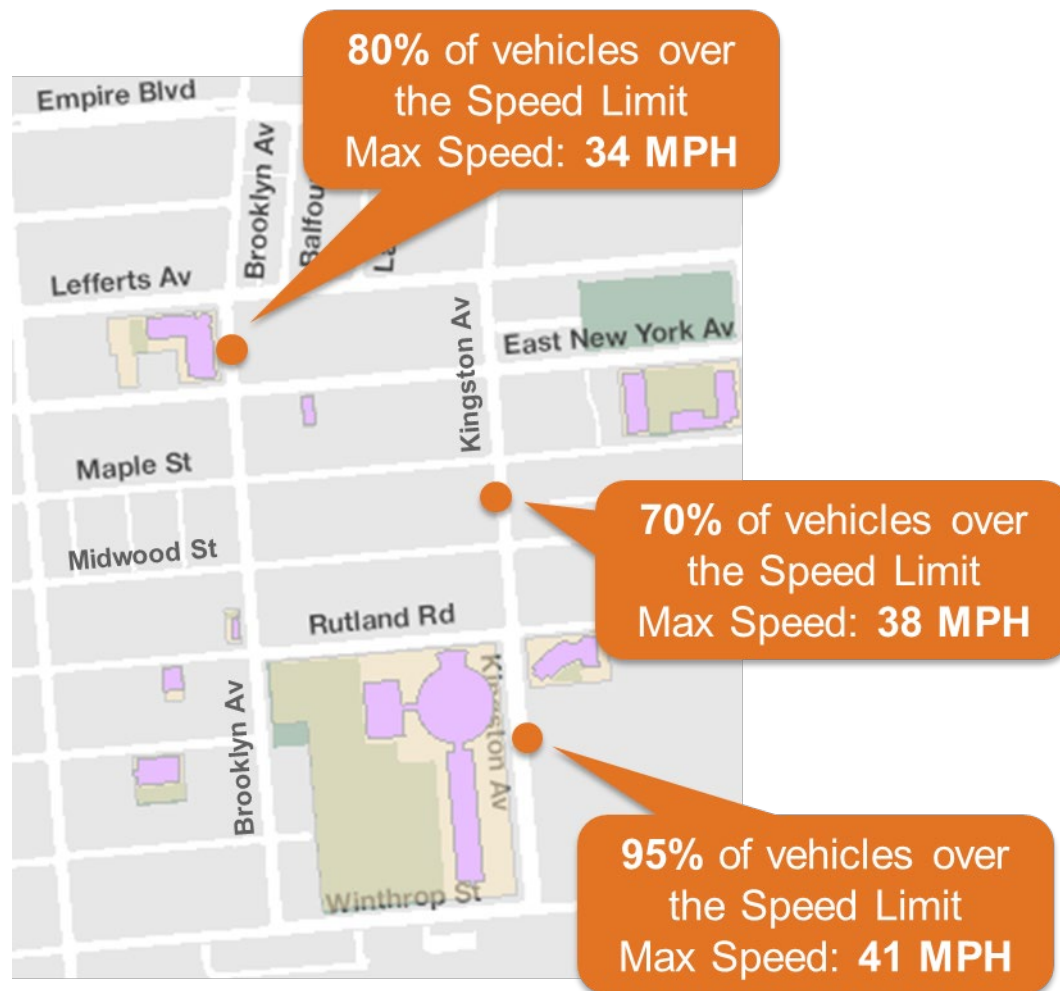
Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Speeding

- Conducted speed radar study at three points in the project area
- Found prevalent speeding on both corridors



Source: Vision Zero Network; IIHS



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Long crossing distances

Long crossing distances
with high volumes of
student pedestrians



Brooklyn Ave at Lefferts Blvd, facing North

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Vehicles Fail to Yield for Pedestrians



Vehicles fail to yield
for pedestrians

Kingston Ave at Rutland Rd, facing South

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

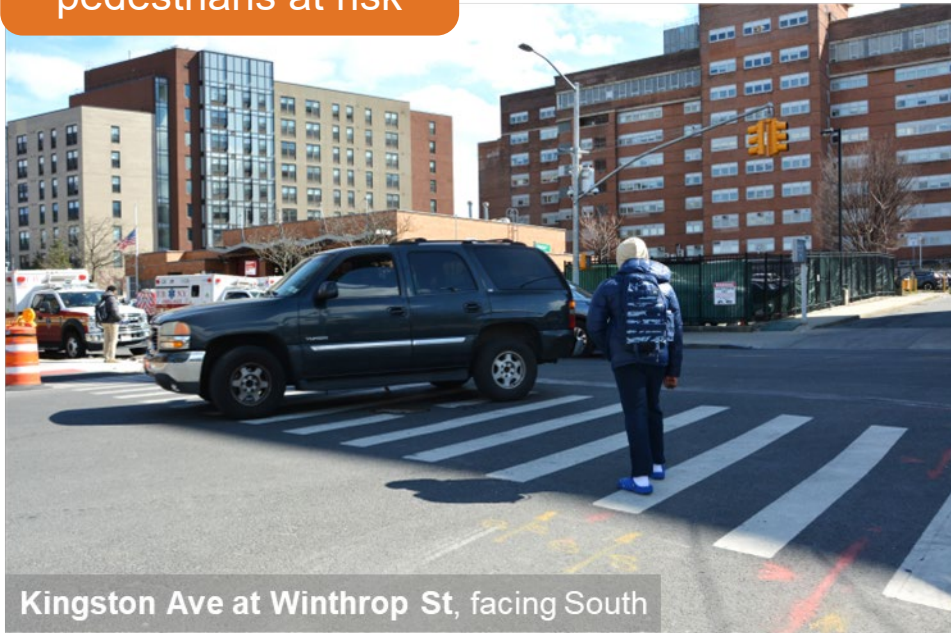
Existing Conditions: Wide Roadway Encourages Unpredictable Passing



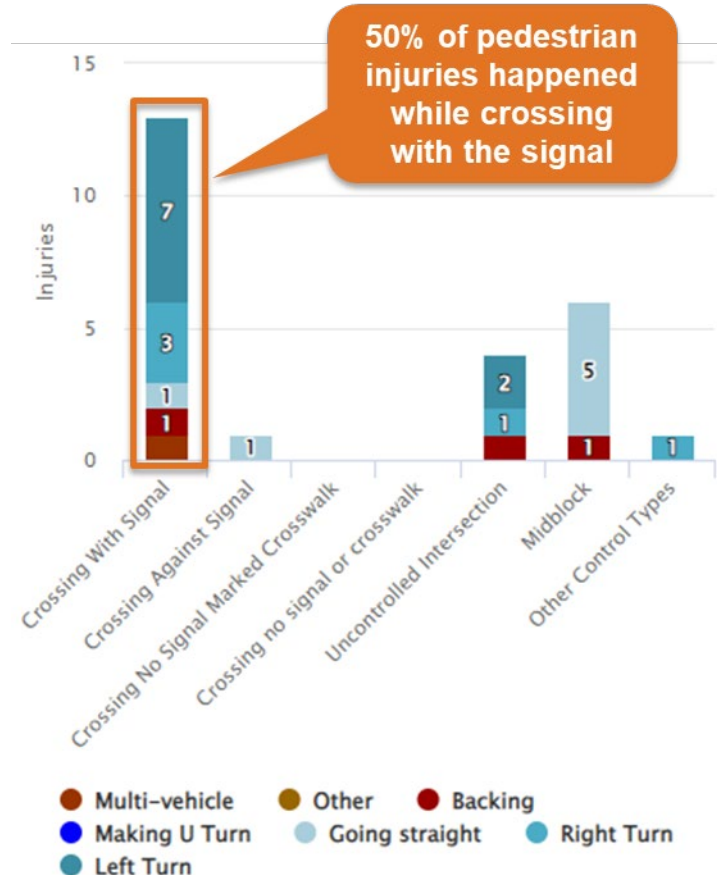
Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Fast Turns Onto Wide Streets

Fast wide turns put pedestrians at risk



Pedestrian Injuries by Vehicle Action & Pedestrian Action



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Low Pedestrian Visibility



Cars parked all the way up to the crosswalk block visibility of student pedestrians



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Existing Conditions: Unsafe biking conditions

No clear place for
cyclists



Lack of
predictability
creates conflict

Kingston Ave at Rutland Rd, facing South

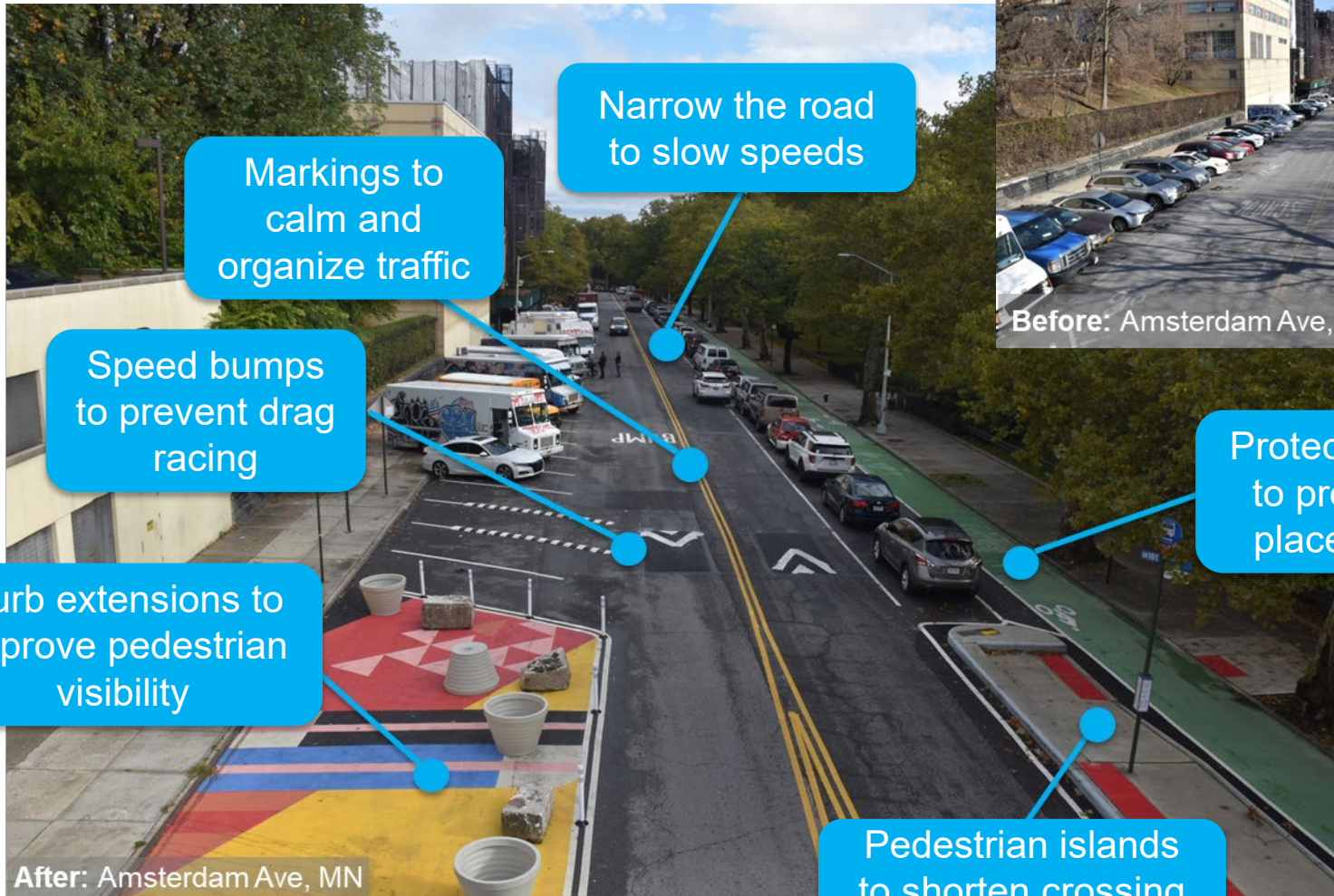
Proposal

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Proposal: Amsterdam Ave and W 190th St



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Safety Benefits of Bike Lanes

Street designs that include protected bike lanes increase safety for all users

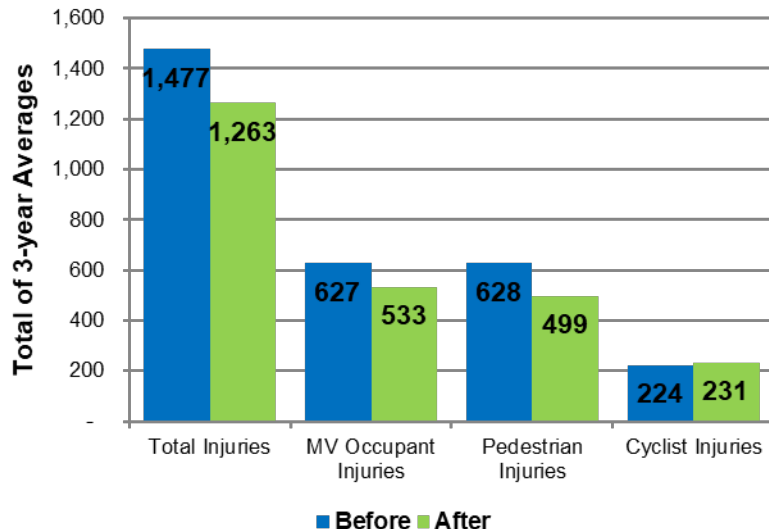
-15% drop in all crashes with injuries

-21% drop in pedestrian injuries

on streets where protected bike lanes were installed 2007-2017

Protected Bike Lanes

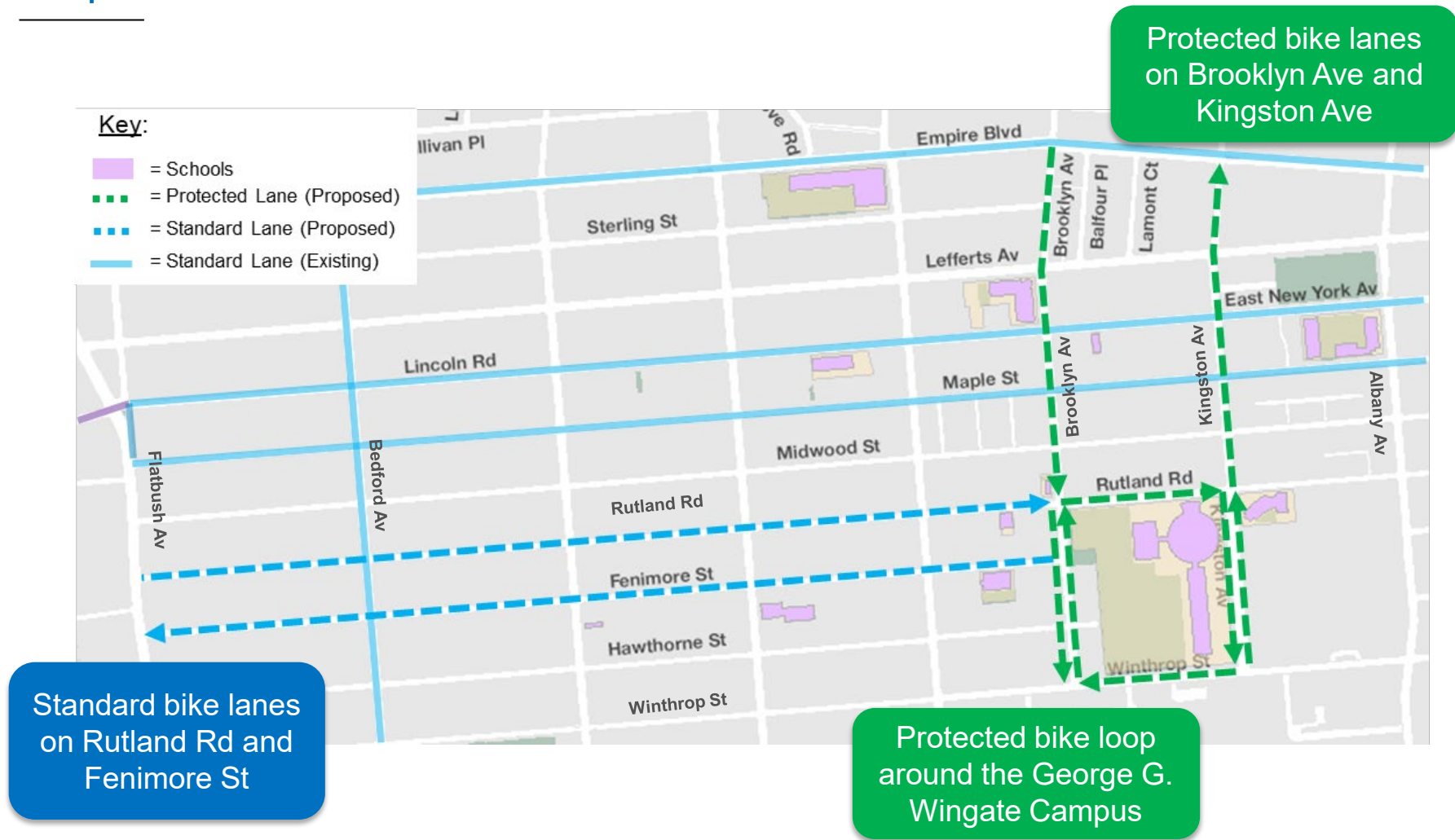
Before and After Crash Data, 2007 - 2017



Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow Ave, Imlay St / Conover St, Paerdegat Ave. Only sections of projects that included protected bike lanes were analyzed.
Source: NYPD AIS/TAMS Crash Database

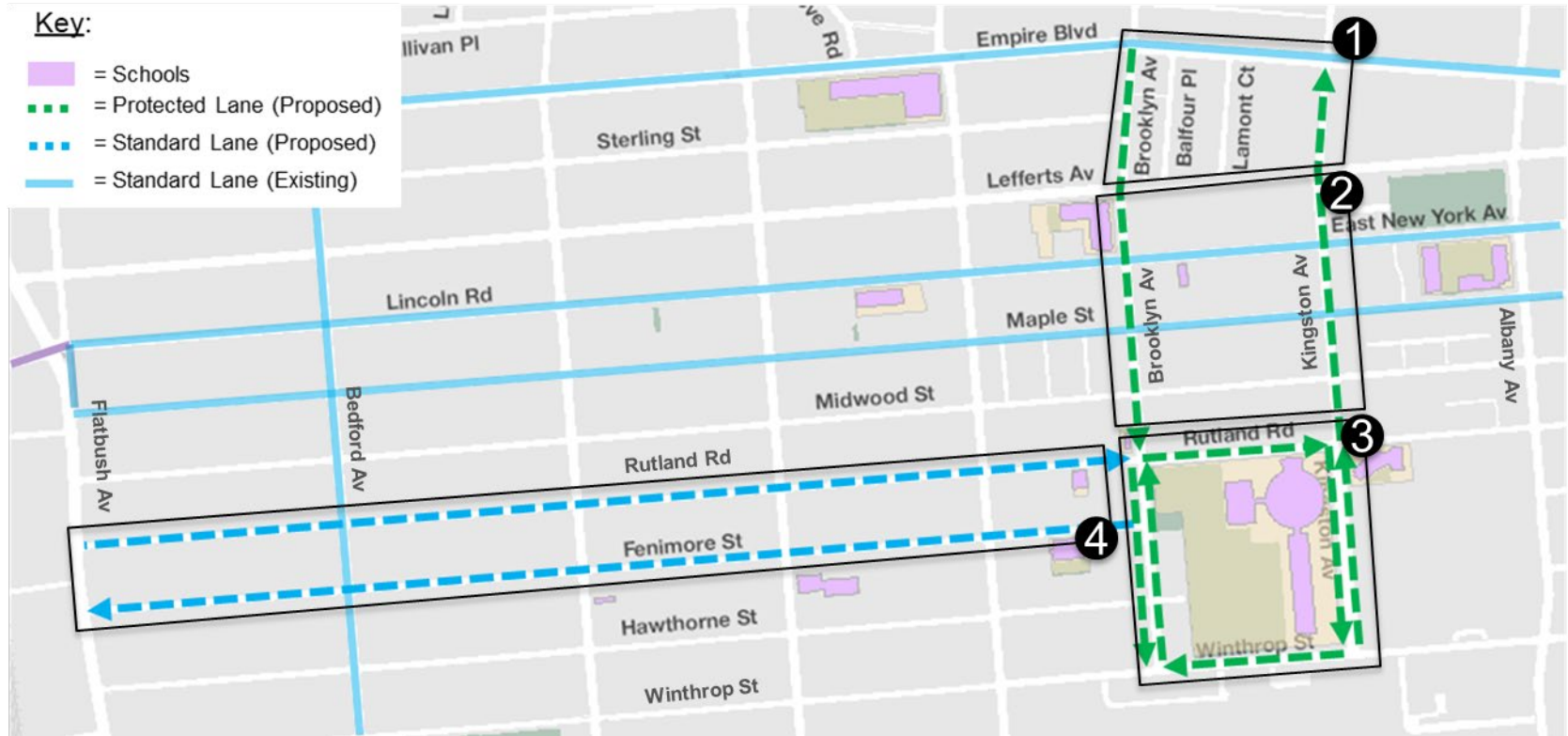
Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Proposal: Protected Bike Lanes



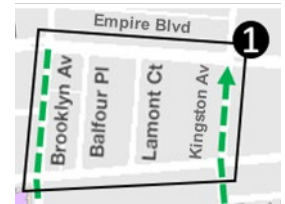
Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Proposal Details

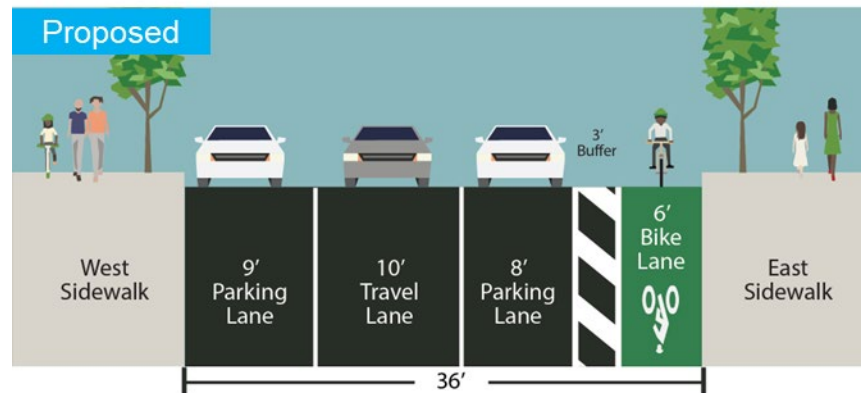
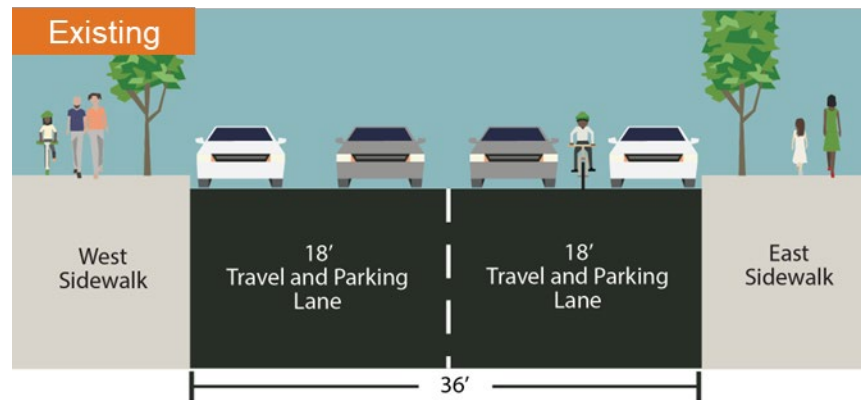


Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

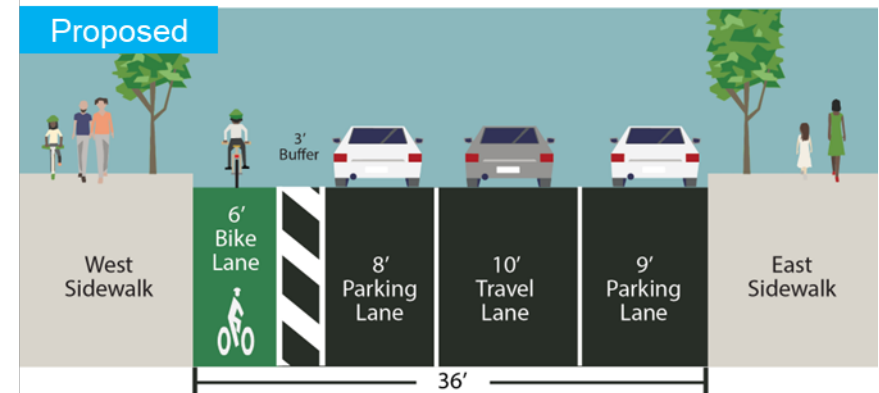
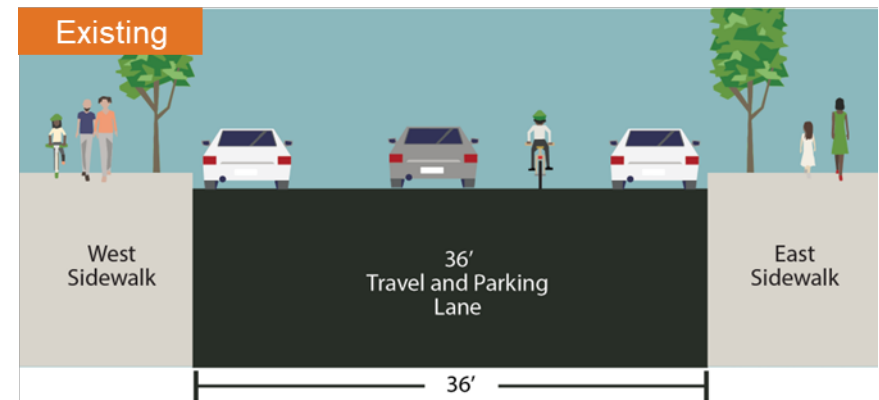
1. Proposal: Empire Blvd to Lefferts Ave (36' wide)



Brooklyn Ave

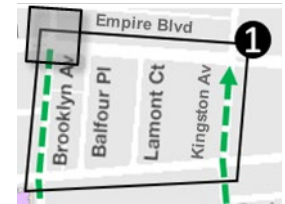


Kingston Ave



Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

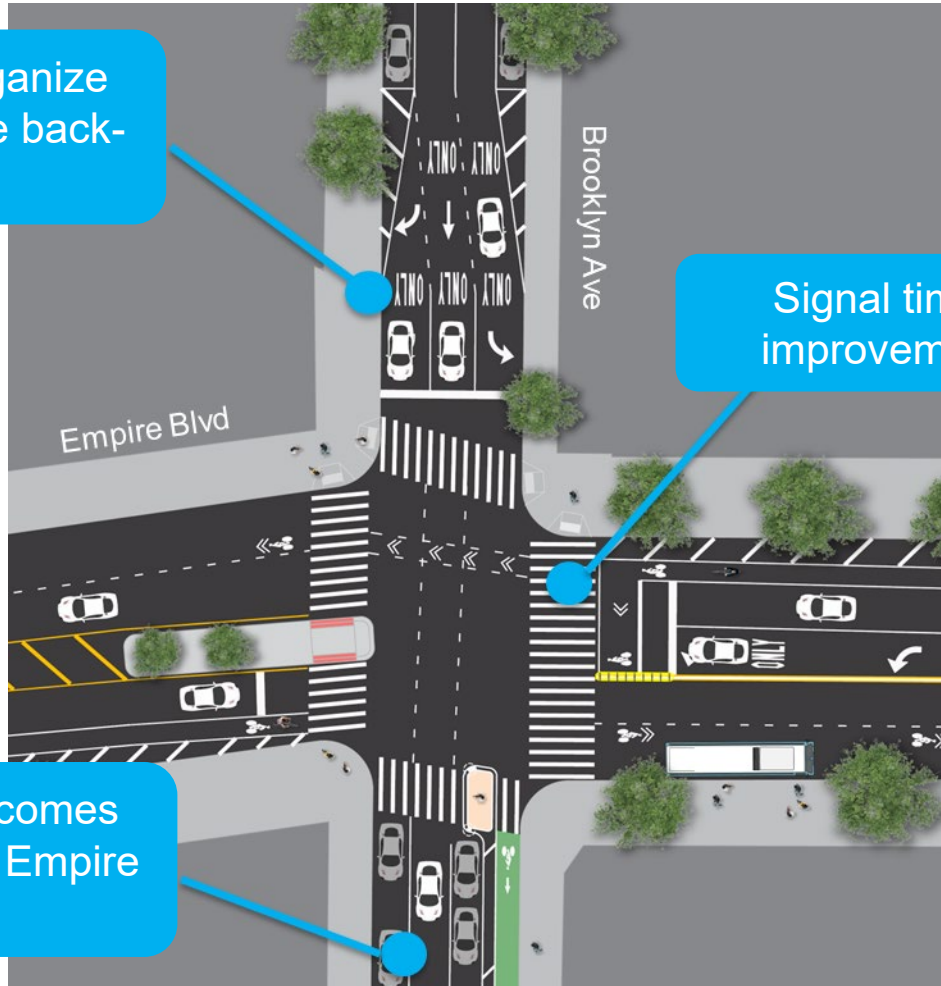
Proposal Detail: Brooklyn Ave and Empire Blvd



Turn bays to organize traffic and reduce back-pressure

Signal timing improvements

Brooklyn Ave becomes one lane south of Empire Blvd

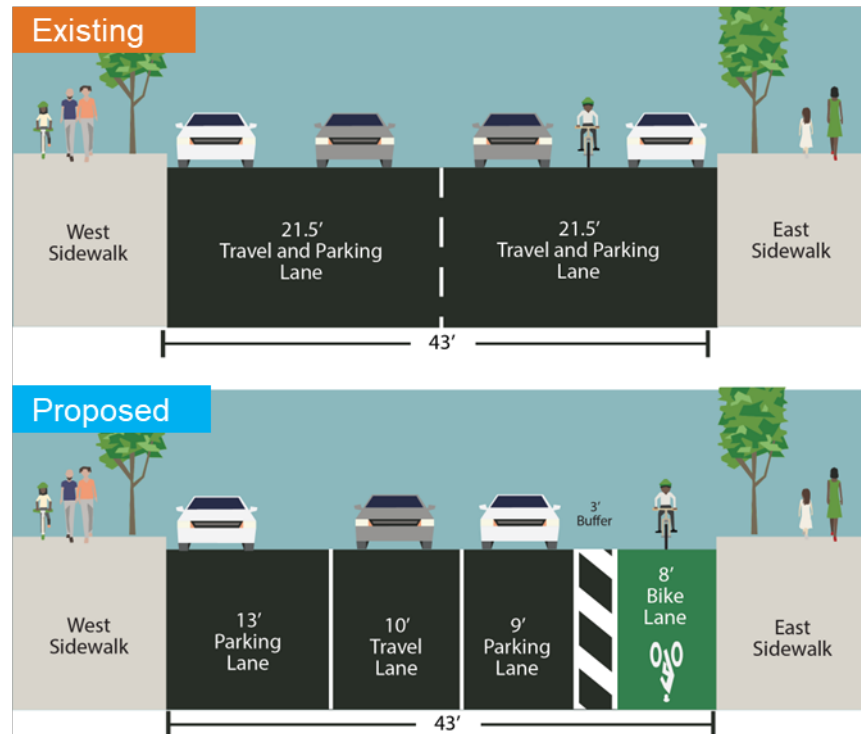


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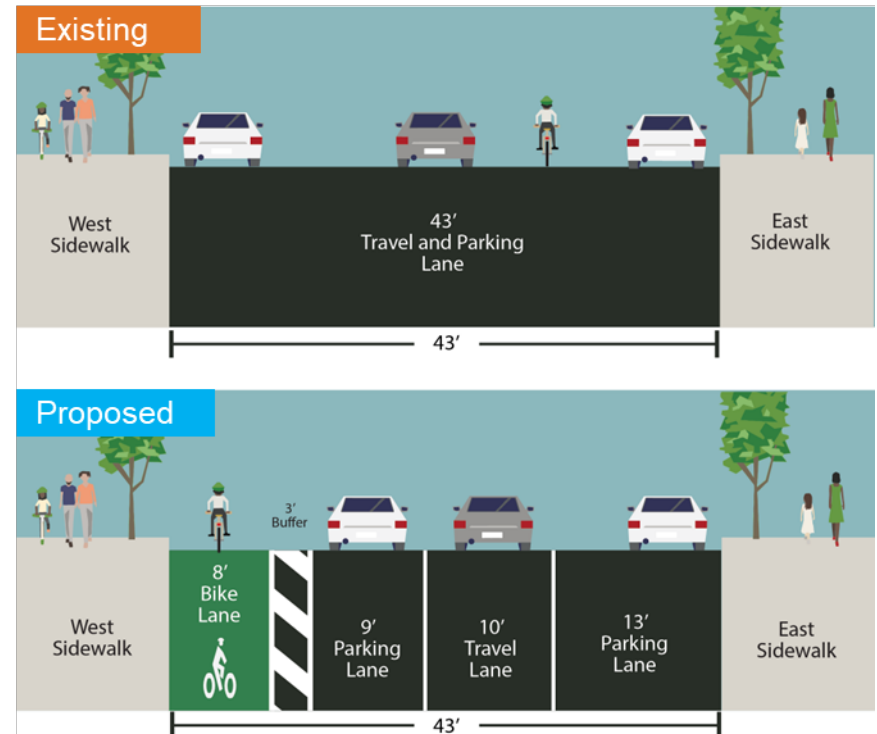
2. Proposal: Lefferts Ave to Rutland Rd (43' wide)



Brooklyn Ave

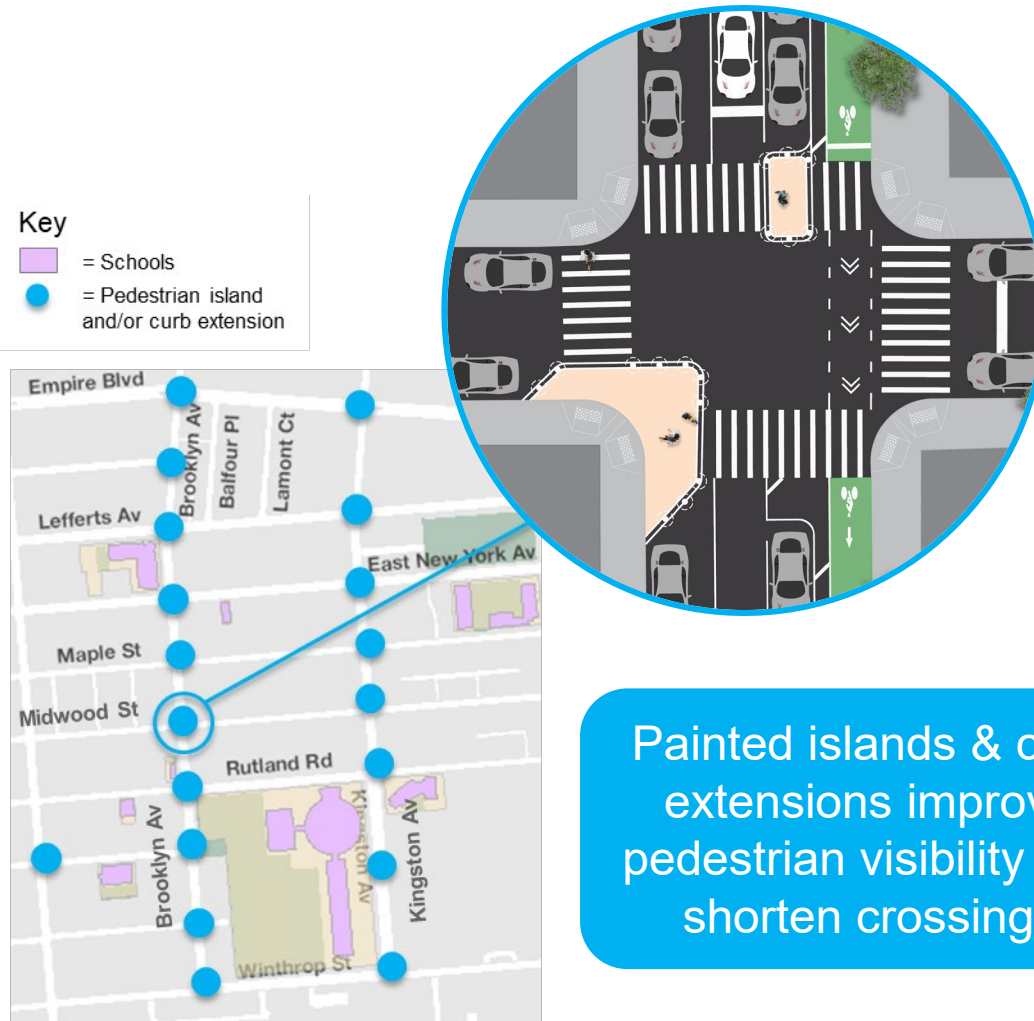


Kingston Ave



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Proposal: Painted Pedestrian Islands & Curb Extensions



Painted islands & curb extensions improve pedestrian visibility and shorten crossings



Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

Proposal: Painted Pedestrian Islands & Curb Extensions



Can't see pedestrians
or oncoming traffic

Before: Crotona Park, BX

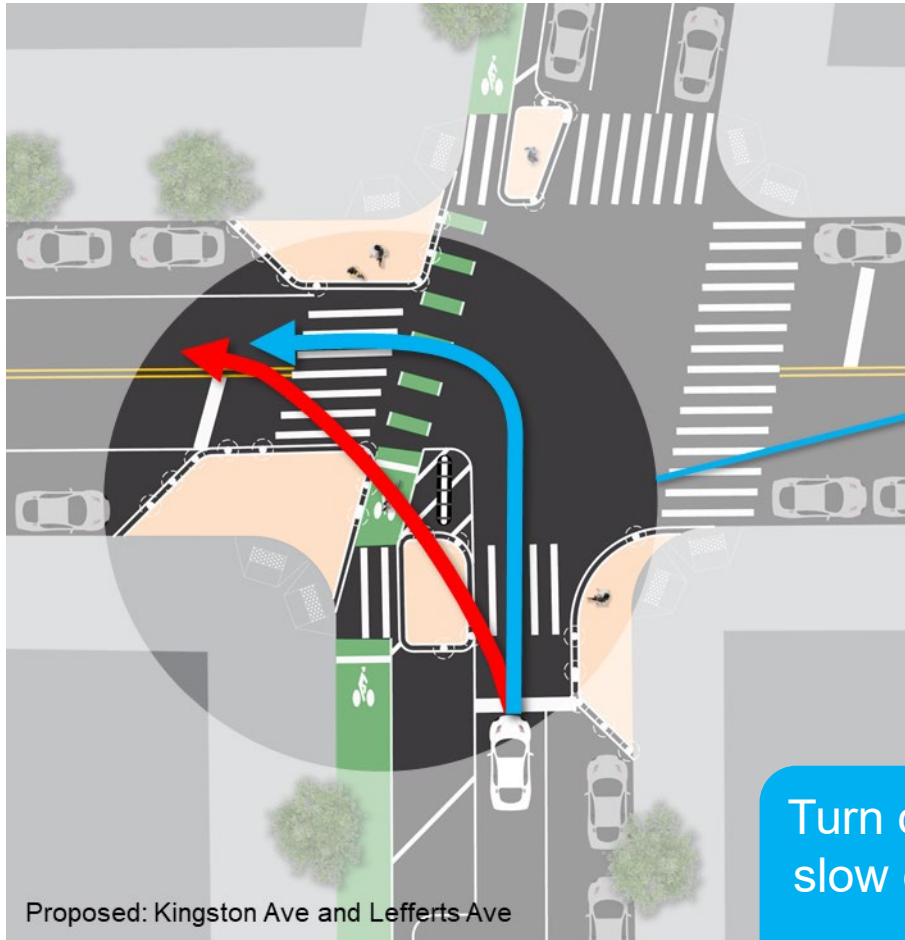


Clear visibility of
the intersection

After: Crotona Park, BX

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

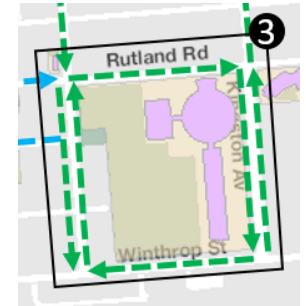
Proposal: Turn Calming



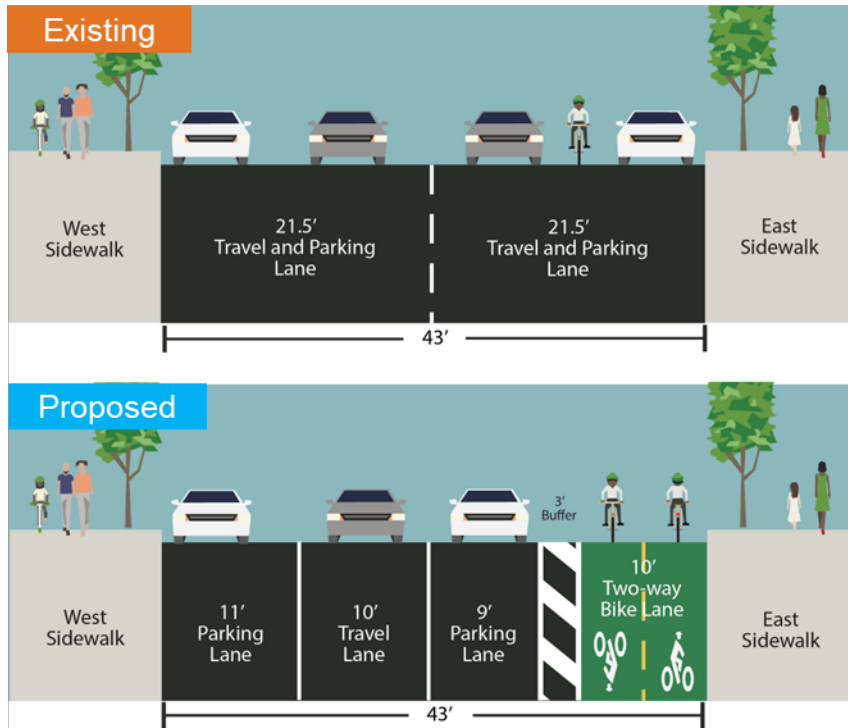
Turn calming treatments
slow drivers and tighten
turn radiuses

Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

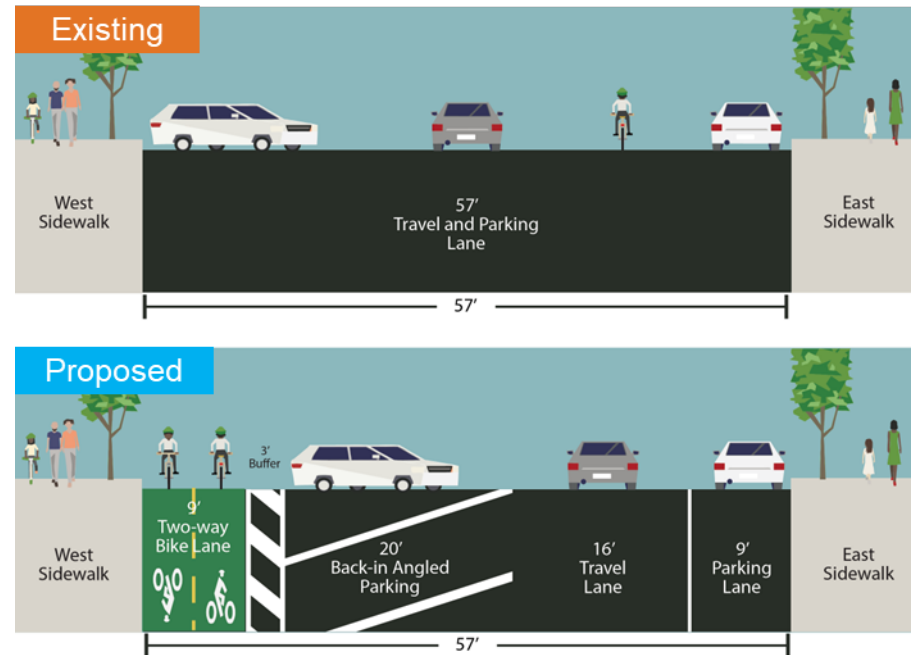
3. Proposal: Rutland Rd to Winthrop St Loop



Brooklyn Ave



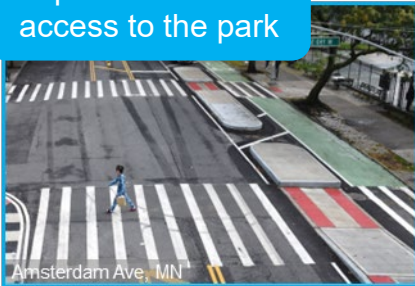
Kingston Ave



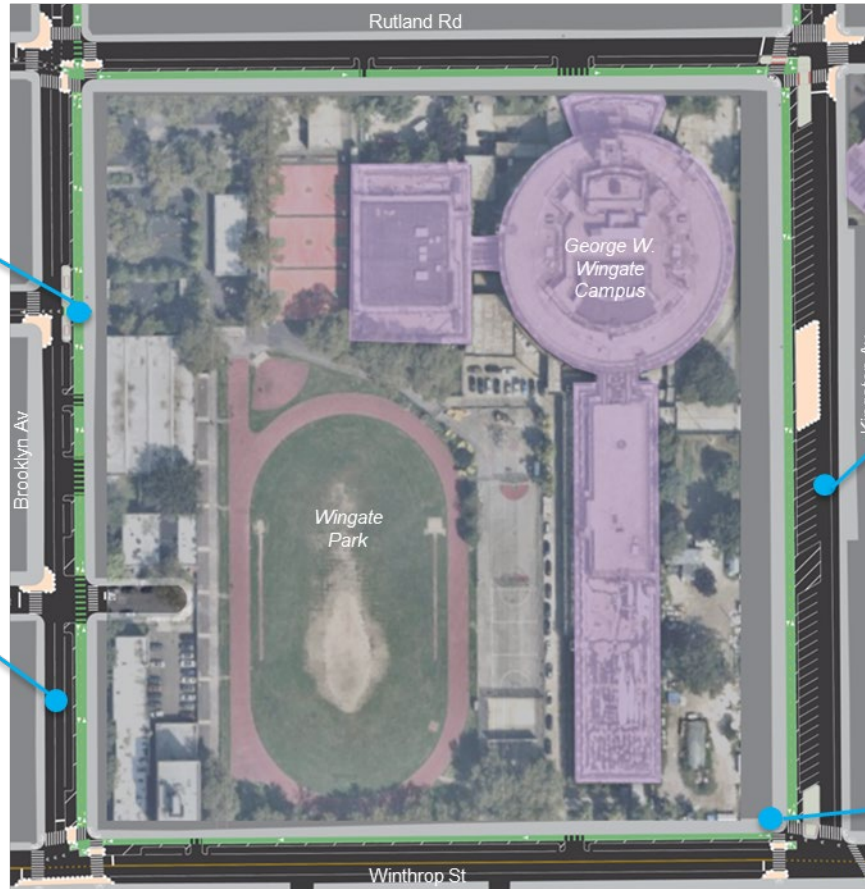
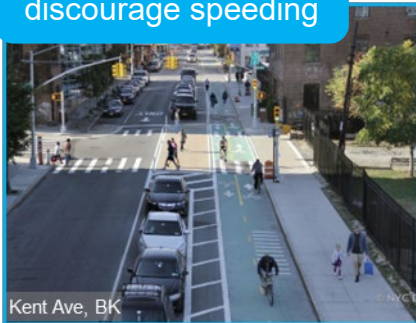
Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

3. Proposal: Rutland Rd to Winthrop St Loop

Improve mid-block access to the park



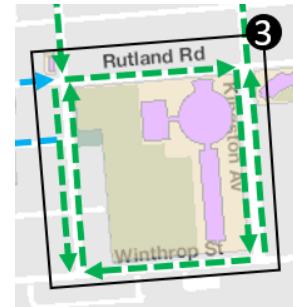
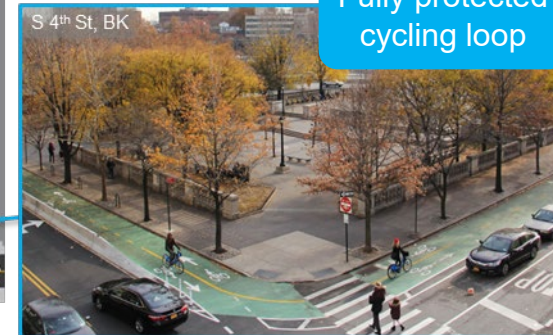
Narrow the road to discourage speeding



Investigate speed bumps



Fully protected cycling loop



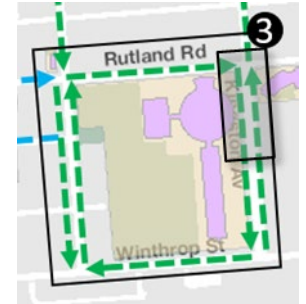
Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

Proposal Detail: George W. Wingate Campus

Shorten crossing distances



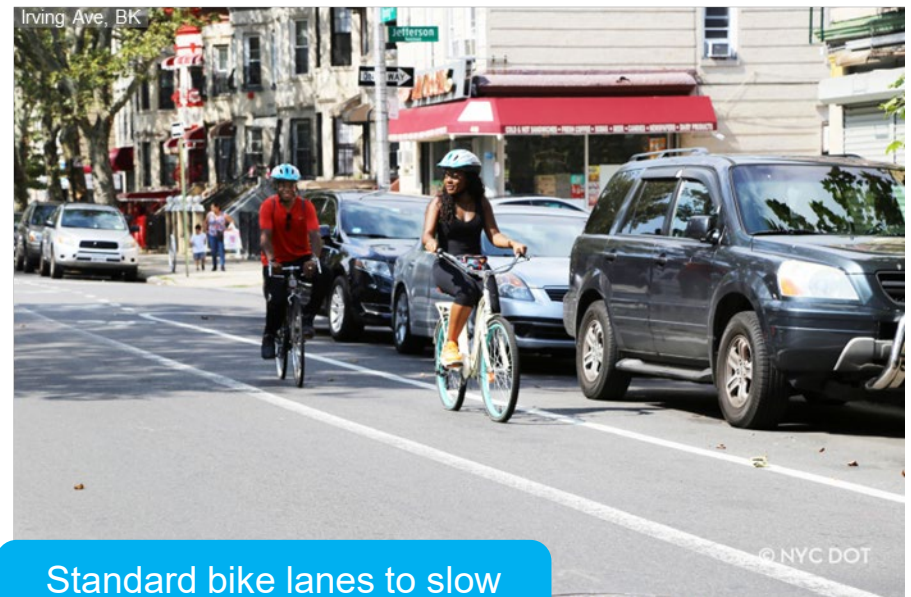
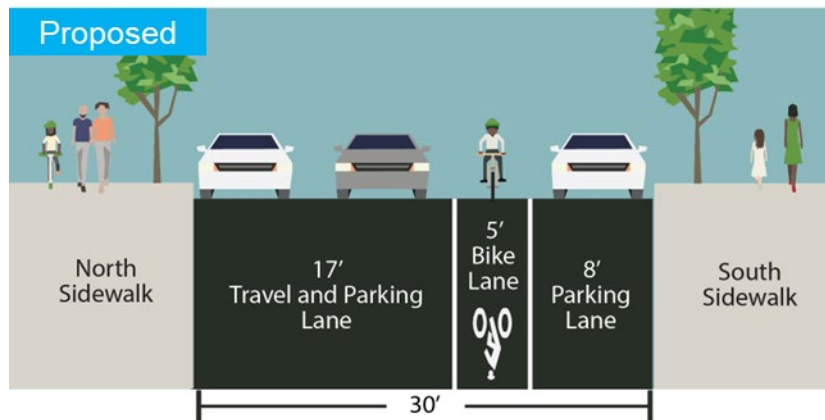
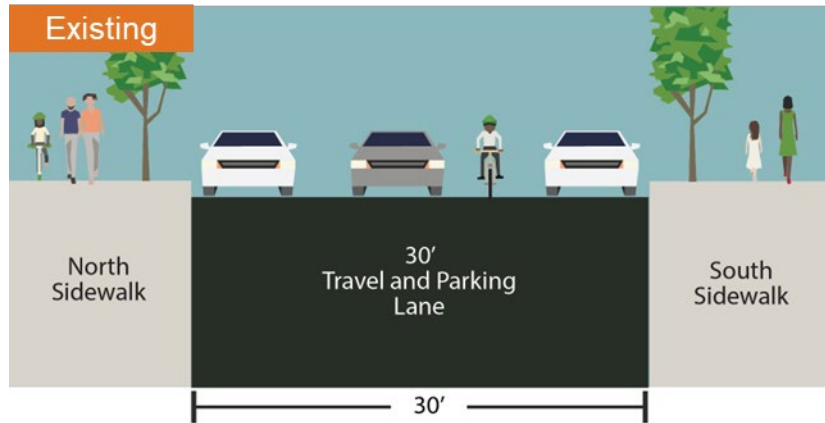
Expand pedestrian space in front of the school entrance



Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

4. Proposal: Rutland Rd and Fenimore St, Flatbush Ave to Brooklyn Ave

Rutland Rd & Fenimore St

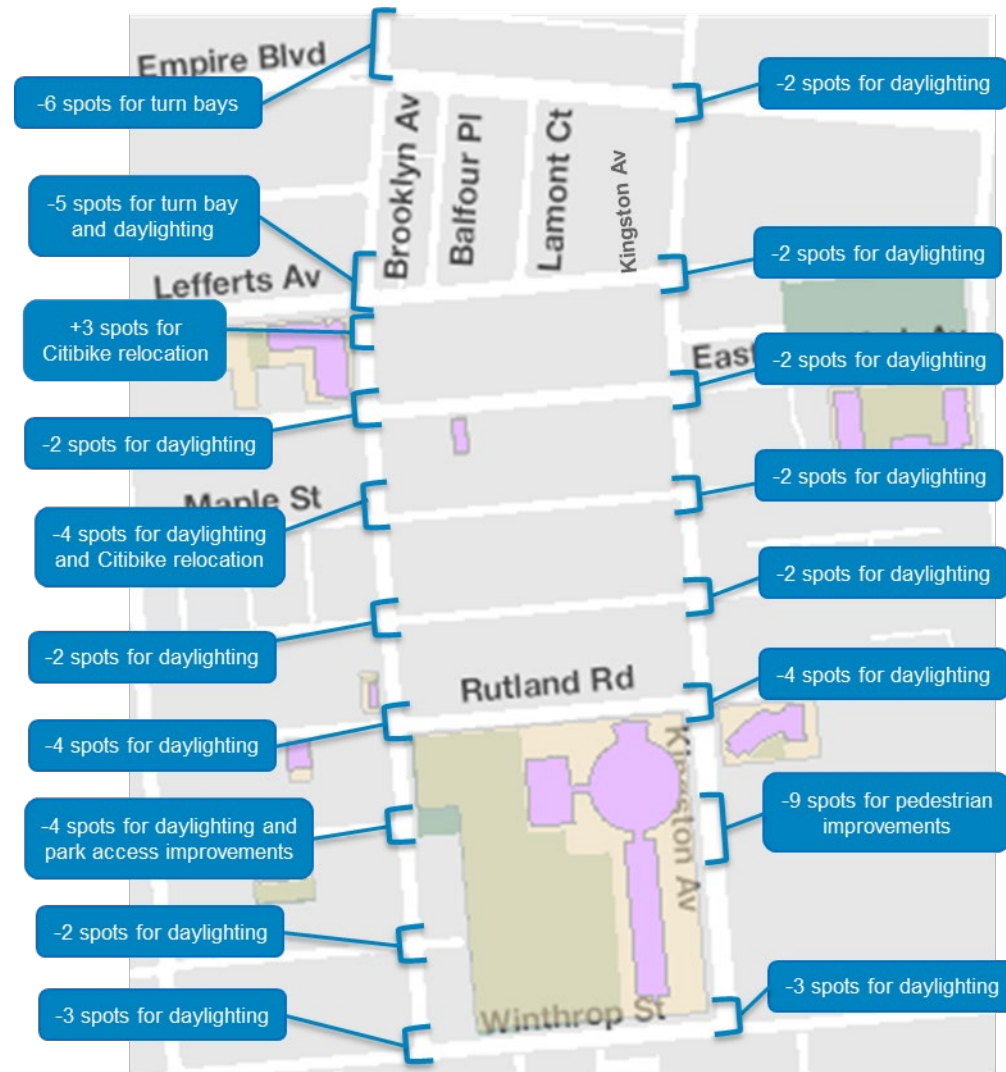


Standard bike lanes to slow speeds and organize traffic

Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

Proposal: Parking Impacts

- ~54 parking spots repurposed
- Approximately 2-4 spots per block to improve visibility, safety, and shorten crossing distances at the intersection



Summary

Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

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Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

Summary

- 10+ schools within a block of Brooklyn Ave and Kingston Ave with a high volume of student pedestrians
- Existing speeding concerns
- To improve safety, we propose:
 - Protected bike lanes to narrow the roadway and slow speeds
 - Painted curb extensions and pedestrian islands to shorten crossing distances and improve visibility
 - Turn calming treatments to slow turning vehicles



Thank You!

NYCDOT BK Borough
Commissioner's Office

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