East 180th St & East 179th St
(Park Ave to Boston Rd)

School Safety Unit
Presentation to Community Board 6 | May 19, 2022
Background

E 180th St & E 179th St (Park Ave to Boston Rd)
E 180th St & E 179th St (Park Ave to Boston Rd)

Vision Zero Priority

Vision Zero
• Multi-agency effort to reduce traffic fatalities in NYC
• Borough Action Plans released in 2019
• Priority Intersections, Corridors, and Areas identified for each borough

E 179th St and E 180th St
• Located in a Priority Area
• E 180th St is a Priority Corridor
• Includes Priority Intersection at Southern Blvd
E 180th St & E 179th St (Park Ave to Boston Rd)

Project Area

Key:

= schools
E 180th St & E 179th St (Park Ave to Boston Rd)

Safety Data

Safety Data, 2015-2019
- 376 total injuries
- 20 severe injuries
- Pedestrians and cyclists make up 50% of severe injuries
- Youth (ages 1-17) make up 25% of pedestrian and cyclist injuries
- 2 pedestrian fatalities and 1 cyclist fatality

| Injury Summary, 2015-2019 (5 Years) |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Mode                          | Total Injuries | Severe Injuries | Fatalities | KSI |
| Pedestrian                    | 77             | 5               | 1             | 6               |
| Bicyclist                     | 30             | 5               | 1             | 6               |
| Motor Vehicle Occupant        | 269            | 10              | 1             | 11              |
| Other Motorized               | 0              | 0               | 0             | 0               |
| Total                         | 376            | 20              | 3             | 23              |

Source: Fatalities: NYCDOT, Injuries: NYSDOT KSI: Persons Killed or Severely Injured

<table>
<thead>
<tr>
<th>Fatalities</th>
<th>2015-2019 (5 Years)</th>
<th>2015-05-16/2022 (8 YEARS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Other Motorized</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

Key:
- = schools

Total Injuries 2015 - 2019
Severe Injuries 2015 - 2019
Fatalities 2015 - 2022
Existing Conditions

E 180th St & E 179th St (Park Ave to Boston Rd)
E 180th St & E 179th St (Park Ave to Boston Rd)

Existing: Long Crossing Distances

Long crossing distances with high pedestrian volumes
**Existing: Low Pedestrian Visibility**

Double parked vehicles and vehicles in the crosswalk make it hard to see

**E 180th St & E 179th St (Park Ave to Boston Rd)**
E 180th St & E 179th St (Park Ave to Boston Rd)

Existing: Fast Turns Onto Wide Streets

Fast wide turns put pedestrians at risk

Pedestrian Injuries by Vehicle Action & Pedestrian Action

42% of pedestrian injuries happened while crossing with the signal

E 180th St and Crotona Ave

E 180th St and Bathgate Ave
E 180th St & E 179th St (Park Ave to Boston Rd)

Existing: Unsafe Biking Conditions

- No clear place for bicyclists
- Lack of clarity creates conflict
- No east–west connection between existing bike lanes

Key:
- Purple = Schools
- Green = Protected bike lane
- Blue = Standard bike lane
- Pink = Shared lane
E 180th St & E 179th St (Park Ave to Boston Rd)

Existing: Speeding and Unpredictable Driver Behavior

E 180th St: Wide roadway and median allow for unpredictable driver behavior

Evidence of donuts in front of school

Unpredictable mid-block U-turns

E 180th St and Arthur Ave

E 180th St and Prospect Ave
E 180th St & E 179th St (Park Ave to Boston Rd)

Existing: Speeding and Unpredictable Driver Behavior

E 179th St: Wide roadway with low traffic volumes encourages speeding

E 179th St: Unpredictable weaving around stopped vehicles

57% of drivers on E 179th St are over the 25 MPH speed limit

E 179th St and Vyse Ave

E 179th St and Lafontaine Ave
E 180<sup>th</sup> St & E 179<sup>th</sup> St (Park Ave to Boston Rd)

Existing: Bus Stop Lengths

Pedestrians must walk out of the crosswalk to get around the bus

E 180<sup>th</sup> St and Crotona Ave

E 180<sup>th</sup> St and Arthur Ave
Proposal

E 180th St & E 179th St (Park Ave to Boston Rd)
E 180th St & E 179th St (Park Ave to Boston Rd)

Proposal: Parking Protected Bike Lane
E 180th St & E 179th St (Park Ave to Boston Rd)

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

-1,477
-1,263
-627
-533
-628
-499
-224
-231

Total of 3-year Averages

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
E 180th St & E 179th St (Park Ave to Boston Rd)

Proposal: Painted Pedestrian Islands & Curb Extension

Painted islands & curb extensions improve pedestrian visibility and shorten crossings
E 180th St & E 179th St (Park Ave to Boston Rd)

Safety Benefits of Pedestrian Islands & Curb Extensions

1. Poor visibility can cause crashes.
2. Painted island improves visibility for drivers and pedestrians.
3. Pedestrians waiting in crosswalk.
4. Parked vehicles blocking visibility.
E 180th St (Park Ave to Boston Rd)

Proposal: Bus Stop Lengthening

Bus stop lengthening keeps the crosswalk clear for pedestrians
E 180th St (Park Ave to Boston Rd)

Proposal: Remove Select Left Turn Bays to Make Space for Pedestrian Islands

- No turns banned
- No travel lanes removed
- Turn bays maintained at intersections with high turn volumes
E 180th St & E 179th St (Park Ave to Boston Rd)

Proposal: Turn Calming

Constrained offsets slow drivers and tighten turn radiiues
The Turn Calming program is a citywide effort to reduce left and right turn speeds and enforce safe turning behavior.

Where Turn Calming treatments have been implemented:

- Pedestrian injuries have decreased by 20%
- Average left turn speeds have decreased by 53%
- Average right turn speeds have decreased by 34%
E 180th St (Park Ave to Boston Rd)

Proposal: Bus Stop Consolidation & Relocation

Bus stop consolidation and relocation is part of larger MTA Bronx Bus Network Redesign
E 179th St (Park Ave to Boston Rd)

Proposal: Narrowing E 179th St to Slow Speeds

Bike lanes help narrow the roadway, slow driver speeds, and limit irregular driver movements.
E 179th St (Park Ave to Boston Rd)

Proposal: Standard Bike Lane Between Park Ave and 3rd Ave

Narrow road requires removal of substandard parking and installation of standard bike lane
E 180th St & E 179th St (Park Ave to Boston Rd)

Proposed Parking Impacts

<table>
<thead>
<tr>
<th>Street</th>
<th>Spots Removed</th>
<th>Spots Added</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>E 180th St</td>
<td>-44</td>
<td>+6</td>
<td>-38</td>
</tr>
<tr>
<td>E 179th St</td>
<td>-52</td>
<td>0</td>
<td>-52</td>
</tr>
<tr>
<td>Boston Rd</td>
<td>0</td>
<td>+5</td>
<td>+5</td>
</tr>
<tr>
<td>Total</td>
<td>-96</td>
<td>+11</td>
<td>-85</td>
</tr>
</tbody>
</table>

-8 spots for Left Turn Bay channelization at 3rd Ave
-8 for Left Turn Bay channelization at Washington Ave
-12 spots for Left Turn Bay channelization and bus stop lengthening at Crotona Ave
-4 spots for visibility, pedestrian improvements, and bus stop lengthening at Arthur Ave
-1 spots for Left Turn Bay channelization at Southern Blvd
-6 spots for visibility & pedestrian improvements
-6 spots for visibility & pedestrian improvements
+6 spots from bus stop removal at Prospect Ave
-23 substandard spots for bike lane
-20 spots for visibility & pedestrian improvements
-9 spots for visibility & pedestrian improvements
+5 spots from bus stop relocation
Summary

E 180th St & E 179th St (Park Ave to Boston Rd)
E 180th St & E 179th St (Park Ave to Boston Rd)

Summary

- Install parking protected bike lanes on E 180th St and E 179th St
- Create key east-west bike network connection
- Improve visibility with painted pedestrian islands and curb extensions
- Calm vehicle turns and slow speeds
- Lengthen and consolidate bus stops
Thank You!

Contact: NYCDOT BX Borough Commissioner’s Office – (212) 748-6680