7th Avenue, 86th Street to Poly Place

School Safety Improvements

Presentation for CB 10 | June 12, 2024
Background
7th Ave, 86th St to Poly Pl

Project Area

• M.S. 407 opening Fall 2024 at 7th Ave and 86th St with ~600 students
• Safety concerns from community and elected officials
• Bus Routes:
  • B8 and B70 on 7th Ave
  • B1, X28, X38 on 86th St
• Local Truck Routes:
  • 7th Ave north of 92nd St
  • 86th St
7th Ave, 86th St to Poly Pl

Safety Data (2019-2023)

- 110 total injuries
- 2 severe injuries
- 1 fatality
- 15% of injuries were pedestrians
- 59% of pedestrians injured were crossing with a signal

Injury Summary, 2019-2023 (5 Years)

<table>
<thead>
<tr>
<th>Type</th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>8</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle</td>
<td>81</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Other Motorized</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>110</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

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

Note: Map may not include total or severe injuries that occurred at midblock locations. Data is based off of NYSDOT/NYSDMV/NYPD crash and injury data available as of May 2024.
7th Ave, 86th St to Poly Pl

Existing Conditions

- B8 and B70 bus routes
- Existing: Midblock
- Long pedestrian crossings

West Sidewalk
9’ Parking Lane
5’ Bike Lane
11’ Travel Lane
11’ Travel Lane
5’ Bike Lane
9’ Parking Lane

East Sidewalk

Local Truck route and designated route for oversized trucks north of 92nd St

Wide street with large painted median encourages speeding and reckless driving
7th Ave, 86th St to Poly Pl

Existing Conditions

Long pedestrian crossings

60 feet
Existing Conditions: Slip Lane

Slip Lane allows fast turns and creates additional conflict points.

Pedestrians forced to walk out of their way.
Current one-way configuration of 88th St makes school buses go out of the way to get to loading area of new school.
7th Ave, 86th St to Poly Pl

Existing Conditions

Concerns about reckless driving

Evidence of donuts
7th Ave and Poly Pl

Existing Conditions

- Slip lane allows for fast right turns through crosswalk
- Long unprotected pedestrian crossing distances
- Painted island is susceptible to illegal parking
86th St

Existing Conditions

- High volumes coming from Gowanus Expwy
- Bus Routes: (B1, X28, X38)
- Local Truck Route
- Long pedestrian crossings
7th Ave, 86th St to Poly Pl

Existing Conditions: Bus Stops

Bus Stop landing area inaccessible for people using wheelchairs, susceptible to mud
7th Ave, 86th St to Poly Pl

Existing Conditions: Narrow Sidewalk

Sidewalk along the park is only 5’ wide, causing many joggers to use the street.
7th Ave, 86th St to Poly Pl

Existing Conditions: Speeding

- 100% of vehicles speeding
- Average speed is 43mph
- 85th percentile speed is 50mph

Source: Recent speed study conducted North of 92nd St:
7th Ave, 86th St to Poly Pl

Existing Conditions: Truck Parking

- Long-standing community complaints
- Large trucks illegally parked for extended periods
Proposal
Proposal Detail: Midblock

Removal of painted median reduces likelihood of speeding

Painted sidewalk extension provides additional space for walking and jogging along the park

Protected bike lane provides dedicated space for cyclists and reduces conflicts
7th Ave, 86th St to Poly Pl

Proposal:
Parking-Protected Bike Lane

Upgrade existing standard bike lanes to two-way parking-protected

Traffic calming and speed reduction

Shorter pedestrian crossings next to schools and bus stops
7th Ave, 86th St to Poly Pl

Protected Bike Lanes: Safety Data

On NYC streets where protected bike lanes were installed in 2007 – 2017:

- 15% drop in all crashes with injuries
- 21% drop in pedestrian injuries

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

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
7th Ave, 86th St to Poly Pl

Proposal Detail: Midblock
**7th Ave, 86th St to Poly Pl**

**Proposal Detail: Turn Bays**

- **Existing**
  - West Sidewalk: 9’ Parking Lane, 5’ Bike Lane, 11’ Travel Lane, 10’ Turn Bay, 11’ Travel Lane, 5’ Bike Lane, 9’ Parking Lane
  - East Sidewalk

- **Proposed**
  - West Sidewalk: 9’ Parking Lane, 11’ Travel Lane, 10’ Turn Bay, 11’ Travel Lane, 8’ Parking Lane, 8’ Bike Lane
  - East Sidewalk

Left Turn Bays maintained where needed to reduce backups and clarify traffic movements.

Protected bike lane provides dedicated space for cyclists and reduces conflicts.
7th Ave, 86th St to Poly Pl

Proposal Detail: Turn Bays
7th Ave, 86th St to Poly Pl

Proposal Detail: Bus Stops

Bus Boarding Island provides accessible space for bus loading and removes conflicts between bikes and buses.

Protected bike lane provides dedicated space for cyclists and reduces conflicts.
7th Ave, 86th St to Poly Pl

Proposal Detail: Bus Boarding Islands

Amsterdam Ave at W 190th St, MN

Bus islands create a safe place for riders to wait and board/exit the bus.

Improves access for bus riders and expedites bus operations.

Stop to be removed as part of MTA bus network redesign.

Bus Island A

Bus Island B

Key
- Project area
- Schools
- Hospitals

Poly Prep

Maimonides

VA Hospital
7th Ave, 86th St to Poly Pl

Proposal: Slip Lane Closure

Close Parrot Pl slip lane between 7th Ave and 88th St with driveway access maintained

Expand existing concrete island and provide direct and safe pedestrian path
**Proposal: Direction Changes and Slip Lane Closure**

- Convert 88th St to Westbound and 90th St to Eastbound
- Close Parrot Pl slip lane between 7th Ave and 88th St with driveway access maintained
- Expand existing concrete island and provide direct and safe pedestrian path
7th Ave, 86th St to Poly Pl

Proposal: Direction Changes and Slip Lane Closure

88th St conversion will give school buses shorter route to loading zone at MS 407
7th Ave, 86th St to Poly Pl

Proposal Detail: Slip Lane Closure

Driveway access maintained through closed slip lane

Banker’s Anchor Plaza, N 15th St, BK
**7th Ave, 86th St to Poly Pl**

**Slip Lane Closure**

Closing the slip lane is infeasible with current street configuration.
7th Ave and Poly PI

Proposal Details: Slip Lane Closure

Poly Prep

Close slip lane

Route right turns around island
7th Ave and Poly Pl

Proposal Details:
Slip Lane Closure

Potential to add street furniture, granite blocks to discourage sidewalk parking on expanded island

Expand and build out island in concrete

New protected bike lane
7th Ave and Poly Pl

Proposal Details: Bus Boarding Island

- New protected bike lane
- Install concrete bus boarding island
7th Ave and 86th St

Proposal Details:
86th St. & 7th Ave.

Extended LPI across 86th St gives pedestrians more of a head start
7th Ave and 86th St

Proposal Details:
86th St. & 7th Ave.

New LPI across 7th Ave gives pedestrians a head start

Bike Box provides safe space for cyclists to cross over 7th Ave

Concrete curb extension slows turns and reduces crossing distance
86th St, Ft Hamilton Pkwy to 10th Ave

Proposal: Signal Timing Adjustments

New dedicated Right Turn Lane

New or extended LPIs
7th Ave, 86th St to Poly Pl

Parking Impacts

Total Impact: -28 spots
7th Ave, 86th St to Poly Pl

Proposal Summary

- Narrow roadway to reduce speeding and reckless driving
- Upgrade standard bike lanes to parking-protected to improve safety for cyclists and other road users
- Change street directions to improve traffic flow near new school and accommodate safety improvements
- Close slip lanes to add pedestrian space and reduce crossing distances
- Install bus boarding islands to improve bus loading
- Improve signal timing along 86th St and add or extend LPIs
7th Ave, 86th St to Poly Pl

**Truck Parking**

- Streets with upgraded infrastructure tend to be less desirable for long-term truck parking
- DOT will ask 68th Pct for additional enforcement
- Alternatively, full removal of parking lane on east side would prevent truck parking and allow for barrier-protection of bike lane
7th Ave, 86th St to Poly Pl

Pending Study

Traffic Control Studies pending to add new traffic controls

Key
- Project area
- Schools
- Hospitals

New Mid-Block Crossing will give pedestrians and cyclists better access to park and ballfields, connection to Shore Pkwy Greenway, and allow extension of protected bike lanes

7th Ave at 88th St

Poly PI at park entrance

Poly Prep

Maimonides

VA Hospital

Dyker Beach Park
Thank You!

Questions?

Contact: NYCDOT BK Borough Commissioner’s Office – (646) 892-1350