Third Avenue, East 189th Street to East Tremont Avenue

School Safety Improvements

Presented to CB6 | January 21, 2021
Third Ave, E 189th St to E Tremont Ave

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

Third Ave
• Priority Corridor
• Located in a Priority Area
Third Ave, E 189th St to E Tremont Ave

Project Area

- 20 schools within a 5-minute walk of Third Ave, E 189 St to E Tremont Ave
- High volumes of students around arrival and dismissal times
- Bx15 bus route
- Local Truck Route
- School Safety Improvements implemented on Third Ave, from E Tremont Ave to E 163 St, from 2017-2019
Third Ave, E 189th St to E Tremont Ave


- 222 total injuries
- 14 severe injuries
- 28% of severe injuries were pedestrians
- Left turns and rear end collisions comprise 37% of motor vehicle crashes

Injury Summary, 2014-2018 (5 Years)

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
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</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>79</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>14</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>154</td>
<td>11</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>247</td>
<td>17</td>
<td>1</td>
<td>18</td>
</tr>
</tbody>
</table>

Source: Fatalities: NYCDOT, Injuries: NYSDOT. 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 crash and injury data available as of October 2020.
Third Ave, E 189th St to E Tremont Ave

Presentation Overview

1 Corridor Improvements

2 Intersection Improvements

3 Proposal Details

St Barnabas Hospital

School

E TREMONT AV

E 178 ST

E 179 ST

E 180 ST

E 181 ST

E 182 ST

WASHINGTON AVE

BASSFORD AVE

SATHGATE AVE

LORILLARD PL

QUARRY RD

nyc.gov/visionzero
Corridor Improvements
Third Ave, E 189th St to E Tremont Ave

Existing: Wide Street with Left Turn Vehicle Conflicts

- Shared through/left turn lane causes unpredictable vehicle maneuvers and creates left turn back pressure
- Wide roadway with low traffic volumes and speeding
- Long pedestrian crossing distances
- Local truck route and Bx15 route

Third Ave at E 178 St
Third Ave, E 189th St to E Tremont Ave

Proposal: 4- to 3-Lane Conversion

- **Install left turn bays** to organize traffic and create safer left turns
- **Add pedestrian refuge islands** to create safer crossings and vehicle turns
- **Remove low-volume travel lane, add flush center median** to organize traffic and reduce speeding

**Existing:**
- Third Ave at E 189th St

**Proposed:**
- Example: Third Ave at E 170th St, BX
Third Ave, E 189th St to E Tremont Ave

Proposal Detail: Benefits of 4- to 3-Lane Conversion

-24% Change in Crashes with Injuries
West 6th St, Brooklyn

-15% Change in Crashes with Injuries
Empire Blvd, Brooklyn

-28% Change in Crashes with Injuries
Allerton Ave, Bronx

-20% Change in Crashes with Injuries
Southern Blvd, Bronx
Third Ave, E 189th St to E Tremont Ave

Proposal Detail: 4- to 3-Lane Traffic Calming

- Consistent moving lane reduces speeding, reduces conflict
- Removing one lane in each direction discourages speeding
- Left turn bays improve traffic flow and create safer left turns
- Bus speeds improved by an average of 7% during peak hours after similar treatments installed on Third Ave between E Tremont Ave and E 163 St
Third Ave, E 189th St to E Tremont Ave

Proposal Detail: Traffic Volumes

Congested Lane
• 700 vehicles per hour or above

Existing (2 lanes)
• Maximum* 200 vehicles per lane

Proposal (1 lane + left turn bays)
• Maximum 400 vehicles per lane

*Maximum Recorded Weekday Peak Volume (AM & PM) at Third Ave & Cyrus Pl

Left Turn Bays
• Left turn bays in 16 locations will further improve capacity
Intersection Improvements
Third Ave, E 189th St to E Tremont Ave

Existing: Long Crossing Distances and Skewed Intersections

56’ wide roadway with 2 travel lanes and parking in both directions

Skewed intersections create long crossings and allow fast turns

Third Ave and E 184 St, looking west

Third Ave and Quarry Rd, looking north
Third Ave, E 189th St to E Tremont Ave

Proposal: Safer, Shorter Pedestrian Crossings

New concrete pedestrian islands improve pedestrian visibility and reduce pedestrian crossing distances

Example: Third Ave, BX

Painted curb extensions slow turning vehicles and shorten pedestrian crossing distances

Example: Ninth Ave, BK
Third Ave, E 189th St to E Tremont Ave

Existing: Bus Conflicts with Traffic

Buses pulling into bus stops and merging back into traffic can cause conflicts and transit delays.
Proposal: Bus Queue Jump Signals and LPIs

Bus queue jumps are a dedicated signal phase that allow buses a head start ahead of traffic to help minimize bus delays caused by traffic signals.

Leading Pedestrian Intervals improve pedestrian visibility and reduce conflicts with turning vehicles.

Example Bus Queue Jump Signal: 79th St and 5th Ave, Manhattan

Bus Stop
Proposal Details
Proposal Detail: School Safety Improvements

Third Ave, E Tremont Ave – E 179 St

Third Ave transitions from existing 4 lanes to proposed 3 lanes

Pedestrian islands to shorten crossing distances, and left turn bays to organize traffic

Example: Pedestrian Island on Third Ave, BX
Third Ave, E 180 St – E 181 St

Proposal Detail: School Safety Improvements

Southbound bus queue jump signal to reduce bus delays

Left turn bays to organize traffic

Pedestrian island to shorten crossing distances, and left turn bays to organize traffic

Painted curb extension to shorten crossing distance and calm right turns

Example: Curb Extension on Meeker Ave, BK © NYC DOT
Third Ave, E 182 St – E 184 St

Proposal Detail: School Safety Improvements

Pedestrian islands to shorten crossing distances, and left turn bays to organize traffic.

Daylighting to improve pedestrian and driver visibility.

Example: Pedestrian Island on Third Ave, BX
Third Ave, E 184 St – E 186 St

Proposal Detail: School Safety Improvements

- Left turn bays to organize traffic
- Daylighting to improve pedestrian visibility
- Painted curb extensions to shorten crossing distance and calm turns
- New crosswalk and pedestrian signals

Example: Curb Extension on Meeker Ave, BK
Third Ave, E 187 St – E 189 St

Proposal Detail: School Safety Improvements

- Painted curb extensions to shorten crossing distance and calm turns
- Left turn bays to organize traffic
- Quik Kurb installed in 2018 to calm left turns
- MTA proposing bus stop consolidation:
  - Add new northbound bus stop at Washington Ave to replace E 187 St and 188 St stops
  - Remove southbound E 188 St stop due to close proximity to Fordham Plaza and E 187 St
Proposal Detail: Parking Changes

Third Ave, E 187 St – E 189 St

Total Parking Impact: -11 spots

Quarry Rd: -2 spots due to new curb extension

Lorillard Pl: -2 spots to improve visibility at T intersection

Washington Ave: -2 spots due to new curb extensions and -5,+7 spots due to relocated bus stop

E 184 St: -3 spots to enhance visibility at triangle

Bassford Ave: -1 spot to improve visibility at T intersection

Bathgate Ave: -3 spots due to new curb extensions
Third Ave, E 187 St – E 189 St

School Outreach

- Reached out to 10 schools
- Met to discuss safety concerns with 9 schools
- Met to discuss proposal with 7 schools, all of which were supportive
- Received official letters of support for proposal from 4 schools
Thank You!

Questions?

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