Southern Blvd & Boston Rd at E 174th St
Intersection Safety Improvements

New York City Department of Transportation – Office of Research, Implementation & Safety
Presented to Community Board 3 on March 10, 2015
• Bow-tie intersection
• 2/5 subway stop
• Bx19 and Bx21 bus routes
• Local truck routes (Boston Rd & Southern Blvd)
• East Bronx Academy for the Future located at the intersection
• Community requests for improvements
Safety Data: Project Need

Southern Blvd At Boston Rd, BX

Injury Summary, 2009-2013 (5 Years)

<table>
<thead>
<tr>
<th>Category</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>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>19</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>39</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

- **2009-2013:** 4 KSI (persons killed or severely injured)
- **Vision Zero priority:**
  - Priority Intersection
  - Priority Corridor (Southern Blvd)
  - Within Priority Area
- **Top 2012 High Pedestrian Crash Location** in the Bronx
- **Top 1%** of Bronx intersections for pedestrian KSI
Existing Conditions

- Complex traffic pattern
- Pedestrian-only crossing time
- Pedestrians cross against the signal and outside of crosswalks to follow shortest route across intersection
- Bus stop in front of school requires pedestrians to wait in the street between traffic
- Poor visibility with elevated subway overhead
Existing and Proposed Design

**Existing**
- Bus stop
- Boston Rd
- Subway exit

**Proposed**
- C-Town Supermarket
- Bus stop
- Boston Rd
- Subway exit
- East Bronx Academy for the Future
Proposal: Island and New Crossing

- Construct new pedestrian safety island
- Install new, more direct pedestrian crossing
- Install lane designations to separate traffic on southbound Southern Blvd
Proposal: Island and New Crossing

Island allows for new crosswalk and provides safe refuge for pedestrians when crossing.

New crosswalks creates more direct path from subway exit across intersection towards E 174th St and school.
Proposal: Close Slip Lanes

Close right turn slip lane from northbound Boston Rd to southbound Southern Blvd

Peak hour volume: 18 vehicles

Simplifies intersection operations and shortens pedestrian crossing distance
Proposal: Close Slip Lanes

Close right turn slip lane from southbound Boston Rd to northbound Southern Blvd

Peak hour volume: 57 vehicles

Move stop sign for merge onto inner lane of Boston Rd
Proposal: Alternate Routes

Street network allows for nearby alternate routes to accommodate diverted traffic from closing of slip lanes.

Peak hour:
- 18 vehicles

Alternate Route:
- E 173rd St

Peak hour: 57 vehicles

Alternate Route:
- E 175th St
Proposal: Bus Stop Improvements

Existing Bx19 bus stop underneath elevated subway tracks requires that riders wait in between traffic in the street.

- Extend sidewalk with paint
- Build concrete bus boarding island

Bx19 is the 10th busiest route in the city with over 10 million riders annually.*

*MTA: Annual Bus Ridership by Route
Proposal: Bus Stop Improvements

- Painted sidewalk extension provides additional pedestrian space at heavily used bus stop and in front of school.
- Concrete bus boarding island creates safe waiting space away from traffic and makes bus stop ADA compliant.
- To maximize pedestrian safety, 3-4 parking spaces to be relocated.
- Painted space requires maintenance partner.
Project Benefits

• New pedestrian island and crosswalk
  – Shortens crossing distances and allows for safer, more direct pedestrian crossings

• Closing slip lanes
  – Simplifies intersection and provides continuous sidewalk space
  – Shortens crossing distances

• Bus stop improvements
  – Allows for safe space to wait for the bus away from traffic
  – Provides more pedestrian space at heavily used bus stop and in front of school
Questions?

Thank You

Contact:
Bronx Borough Commissioner’s Office at (212) 748-6680 or kkalb@dot.nyc.gov