St. Nicholas Place & W. 155th St.
Intersection Safety Improvements

Commissioner Polly Trottenberg New York City Department of Transportation
Presented by Traffic and Planning on May 21, 2014
Project Area

Intersection of:
Community Boards 9,10,12

Intersection of:
W 155th Street
St. Nicholas Place
Edgecombe Ave
Harlem River Driveway Entrance
Background

Community Request

- Council Member Jackson requested pedestrian safety improvements
- Winter 2012 & Summer 2013: Site Walk Through and Workshop with community members to develop a safety improvement plan
- NYPD 30th Precinct requested DOT safety investigation

Safety Issues

- Long crosswalks
- Pedestrian crashes
- Multi-leg intersection with multiple conflicting movements
Pedestrian Crashes

St Nicholas Pl at W 155th St
Injury Summary, 2008-2012 (5 years)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>59</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>72</td>
<td>8</td>
</tr>
</tbody>
</table>

38% of pedestrian crashes involved pedestrians crossing with the signal
Turning Conflicts

23% of motor vehicle crashes involved left turning vehicles
Turning Conflicts
Turning Conflicts
Yielding Conflicts
Rapid Response Toolkit

- Pavement markings
- Turn Restrictions
- Painted surfaces
- Concrete Islands & Island Extensions
- Flexible Delineators
Proposed Conditions

- Harlem River Driveway
- St. Nicholas Place
- W 155th Street
- Edgecombe Ave

- 6 New Curb Extensions
- New Safety Island
- W 155th Street Macombs Dam Bridge
- Typical safety island
Proposed Conditions

Shorter crossing distances

Tightens intersection to clarify movements and slow turns
Proposed Banned Turns

- Optional: Close slip to create continuous sidewalks, reduce conflicts, and ease traffic flow.

- Optimized signal timing to process diverted traffic.

- Creates conflict free crosswalks.

- Reduces vehicle/pedestrian, vehicle/vehicle conflict points.

- Eases traffic flow.
75% of pedestrian crashes involved pedestrians crossing at intersections without stop signs or signals

**St Nicholas Pl: W 150th St to at W 153rd St Injury Summary, 2008-2012 (5 years)**

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>29</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
<td><strong>6</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>
Existing Conditions

- Lack of pedestrian crossings
- Uninterrupted corridor encourages speeding
Proposed Conditions

- New pedestrian islands
- Approved speed hump locations
- Yield to pedestrian crosswalk in the Bronx
- Yield to pedestrian crosswalk at W 152nd St
- Yield to pedestrian crosswalk at W 151st St
- Yield to pedestrian crosswalk at W 153rd St
- Yield to pedestrian crosswalk at St. Nicholas Place
Proposed 2014 Changes

- Ban southbound lefts from W 155th St
- Optional: Close Edgecombe Slip
- Ban southbound right from Edgecombe Ave
- Ban northbound left from St. Nicholas Pl

Alternately changes can be included with full project implementation in 2015
Plan Summary

Proposed changes to the intersection of St. Nicholas Pl and W 155th St
1. Expand existing greenstreet island
2. Add new triangle island on St. Nicholas Pl at W 155th St
3. Add new pedestrian island on St. Nicholas Pl
4. Ban southbound lefts off of W 155th St
5. Ban southbound right from Edgecombe
6. Ban westbound lefts off of W 155th St
7. Optional slip ramp closure W.155th St to Edgecombe

Proposed Changes to St. Nicholas Pl
1. Add pedestrian islands at 151st St, 152nd St and 153rd St
2. Add yield crosswalk on St. Nicholas Pl at W 152nd St
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Thank You