7th Avenue, Bay Ridge
Traffic Calming Project
Why are we here?

- High Incidence of Speeding
- Excess Roadway Capacity
- Opportunity to redesign the roadway to accommodate all users
Project Intentions

1. Redesign the roadway to accommodate all users
2. Reduce speeds by reducing number of moving lanes
3. Improve bicycle access by connecting to existing bike routes
Project Scope

- 78th St to Poly Place
- Residential corridor in Dyker Heights and Bay Ridge
- Major intersections at Fort Hamilton Parkway, 86th St, 92nd St, and Poly Place
Safety Concerns: Collisions

7th Avenue Collisions 2005-2007

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Multivehicle</th>
<th>Vehicle-Ped</th>
<th>Vehicle-Bike</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All</td>
<td>All</td>
<td>Severe</td>
<td>All</td>
</tr>
<tr>
<td>Fort Hamilton/78th St</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>82nd St</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>86th St</td>
<td>18</td>
<td>12</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>92nd St</td>
<td>20</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poly Place</td>
<td>11</td>
<td>11</td>
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<td></td>
</tr>
</tbody>
</table>

Legend
Crashes 2005-2007
Sum of Fields
- Multivehicle
- Vehicle-Pedestrian
- Vehicle-Bicycle
Safety Concerns: Speeding

• When a pedestrian is struck
  • At 20 mph = 5% chance of dying
  • At 30 mph = 45% chance of dying
  • At 40 mph = 85% chance of dying

<table>
<thead>
<tr>
<th></th>
<th>Northbound</th>
<th>Southbound</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>85th Percentile Speed (mph)</td>
<td>% speeding</td>
</tr>
<tr>
<td>81st to 86th St</td>
<td>38</td>
<td>64</td>
</tr>
<tr>
<td>86th to 92nd St</td>
<td>40</td>
<td>38</td>
</tr>
<tr>
<td>92nd St to Poly PI</td>
<td>38</td>
<td>54</td>
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</table>

NYC 30mph speed limit
What’s the Plan?

- Remove one moving lane in each direction
  Narrower Streets = Slower Speeds

1. Create median buffer with left turn bays
   - Provide traffic calming
   - Northbound protected left turn at 92 St

2. Install 5’ bike lanes
   - Further restrict roadway
   - Add underserved area to bike network

3. Calm intersection with Gowanus off ramp at 78 St
   - Reduce rightward weave near PS127
Why Bike Lanes?

- Enhance Speed Reduction Goals
- Connect Bay Ridge and Dyker Heights to Bike Network
- Achieve Mayor’s Sustainability Goals

NYC bike route map

Linkage with planned 92St, Ft Hamilton Pkwy planned bike lanes

Linkage with existing Cropsey bike lane
Existing Conditions

81st St to Poly Place (9 blocks, 0.9 mi) – Excessively Wide (60’)

20’ Parking and Moving Lane
10’ Moving Lane
10’ Moving Lane
20’ Parking and Moving Lane
Proposed Conditions: 81 St to Poly Pl

Road Diet with Bike Lane

- 9’ Parking Lane
- 5’ Bike Lane
- 11’ Moving Lane
- 11’ Moving Lane
- 5’ Bike Lane
- 9’ Parking Lane

10’ center buffer w/ 10’ turning lane
Road Diet: 81 St to Poly Pl
Separate phases at Fort Hamilton Pkwy

- Northbound traffic from the Gowanus Expressway and 7th Ave will have their own roadways and phases.
- 2 new pedestrian refuges
Questions?

Proposed Condition – 7th Ave: 81st St to Poly Pl