BACKGROUND
• Flatbush Ave is the main commercial corridor through a predominately residential area

• Dominated by auto-oriented retail

• Four bus routes run though the project area, including the B 46 SBS
Flatbush Ave/Utica Ave/Ave S is a Vision Zero Priority Intersection

Utica Ave and Flatbush Ave are Vision Zero Priority Corridors
SAFETY DATA

Flatbush Ave: Ave S to Ave T

- Two Pedestrians Severely Injured (2012-2016)
- One Bicyclist Severely Injured (2012-2016)
- Two Motor Vehicle Occupants Severely Injured (2012-2016)

Flatbush Ave/Utica Ave/Ave S, BK
Injury Summary, 2012-2016 (5 years)

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Bicyclists</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>67</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>76</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

*People Killed or Severely Injured
EXISTING CONDITIONS
80% of pedestrians surveyed do not feel safe when crossing the Flatbush Ave, Utica Ave and Ave S intersection.

Which of the following are safety concerns for you?

- Failure to yield: 36%
- Speeding: 33%
- Long crossing distances: 31%
- Illegal U-turns: 7%
- Double Parking: 4%
EXISTING CONDITIONS

Long Crossing Distances
Flatbush Ave/Utica Ave/Ave S

Flatbush Ave & Ave T
EXISTING CONDITIONS

Indirect Crossings
Flatbush Ave/Utica Ave/Ave S
EXISTING CONDITIONS

Missing Crossings

Flatbush Ave at E 51\textsuperscript{St} St
Confusing Vehicular Movements

Mismatched Travel Lanes

- Two Travel Lanes
- Two Receiving Lanes
- Three Travel Lanes
- Three Receiving Lanes

Movements are Unclear

- Correct
- Incorrect
EXISTING CONDITIONS

Excess Roadbed Encourages Speeding and U-Turns

35% of vehicles on Flatbush Ave traveling above the speed limit*

*Speed limit of 25 mph; data collected March 31, 2016
New Concrete Calms Traffic and Creates Shorter, More Direct Pedestrian Crossings

1. Add Concrete Pedestrian Refuge Islands
2. Expand Existing Concrete Triangle and Add New Crosswalk Through Intersection
New Painted Pedestrian Space

**1.** Restrict Right-Turn From Southbound Utica Ave to Northbound Flatbush Ave, Allows for New Painted Pedestrian Space

**2.** Add Missing Crosswalk on E 51st St and Install New Painted Pedestrian Space to Slow Turning Vehicles

**3.** Expand Median to Shorten Crossing
PROPOSAL

Traffic Calming and Bus Improvements

1 Dedicated Bus Lane on Flatbush Ave E 53rd St and Ave T Improves Bus Efficiency and Calms Traffic by Reducing the Width of the Roadway

2 Move Bus Stop on Southbound Flatbush Ave from Midblock to Signalized Crossing at Intersection of Ave T and Flatbush Ave
Simplified VehicularMovements

New Concrete and Street Markings Clarify Correct Vehicular Movements
Traffic Signal Improvements

Pedestrian Priority Phase – 7 Seconds

New Leading Pedestrian Interval (LPI) Signal Phase Gives Pedestrians a 7 Second Head Start to Cross Flatbush Ave Before Vehicles on Ave S Get the Green Light
Traffic Signal Improvements

Bus Priority Phase – 7 Seconds

Dedicated Bus Lane Allows for Bus Queue Jump Signal, Giving Bus a 7 Second Head Start onto Single Lane Northbound Utica Ave Before General Vehicle Traffic
BENEFITS

• New pedestrian space creates safer, shorter pedestrian crossings

• New concrete slows traffic and prevents illegal turning movements

• Dedicated space for buses improves bus service and calms traffic by utilizing extra road space

• New signal phasing prioritizes pedestrians and buses
SUMMARY

- Add concrete refuge islands on Flatbush Ave north of Ave S and between through and left-turn lanes on northbound Flatbush Ave at Ave S
- Expand concrete triangle within intersection of Flatbush Ave/Utica Ave/Ave S
- Add new crosswalk through intersection
- Add painted curb extension on Flatbush Ave and Utica Ave
- Ban right turn from southbound Utica Ave to northbound Flatbush Ave
- Add painted curb extension at E 51st St and Flatbush Ave
- Add painted median extension at Flatbush Ave and Ave T
- Move southbound midblock bus stop between Ave T and Ave U to far side of intersection at Ave T
- Add dedicated bus lane on northbound Flatbush Ave Service Rd between E 53rd St and Ave S
- Add Leading Pedestrian Interval (LPI) on Flatbush Ave at Ave S
- Add Leading Bus Interval (LBI) on northbound Flatbush Ave Service Rd to Utica Ave
- Upgrade area crosswalks to high visibility and install missing minor crosswalks
THANK YOU!

QUESTIONS?