St. Johns Pl. / Sterling Pl.
Corridor Safety Improvements

New York City Department of Transportation
Presented by the Office of Research, Implementation and Safety
Brooklyn Community Board 8 on Tuesday, January 26th, 2016
Vision Zero Priority Corridors / Areas

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2015
- Priority Intersections, Corridors, and Areas identified
  - St Johns Pl & Sterling Pl are in a Priority Area for Brooklyn. St. Johns Pl & Utica Ave is a priority intersection.
Safety Data: Project Need

- **2010-14:**
  - 680 total injuries
  - Severe injuries concentrated in areas where street widens
- **Up to 47% of cars traveling over speed limit**
  - 31.5% of motor vehicle crashes are rear-end crashes

### Injury Summary, 2010-2014 (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>167</td>
<td>19</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>59</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>454</td>
<td>23</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>680</strong></td>
<td><strong>47</strong></td>
<td><strong>0</strong></td>
<td><strong>47</strong></td>
</tr>
</tbody>
</table>

19 severe ped injuries
5 severe bicyclist injuries
47 KSI (persons killed or severely injured)

Fatalities, 01/01/2010-12/31/2016: 1

Source: Fatalities: NYCDOT
Injuries: NYSDOT
KSI: Persons Killed or Severely Injured
– Commercial and residential land use
– Existing bicycle routes (Vanderbilt Ave, Plaza St. E., Washington Ave, Classon Ave, Franklin Ave, Bedford Ave, Brooklyn Ave, Kingston Ave)
– B45 bus on St. Johns Pl. and Sterling Pl.
Existing Conditions: St. Johns Pl.

1. St. Johns Pl (Plaza St. E. to Washington Ave)
   - 50 ft. wide roadway, one lane in each direction
   - Existing 6 ft. flush median, wide parking lanes

St. Johns Pl. btwn Plaza St. E & Washington Ave.

St. Johns Pl. at Washington Ave., looking West
Proposal: St Johns Pl.

1. St. Johns Pl (Plaza St. E. to Washington Ave)
   - Narrow existing painted center median to 4 ft.
   - Mark 2-way bicycle lane in eastbound and westbound direction
     - Connects to existing routes on Plaza St. E. and Washington Ave.
Existing Conditions: St. Johns Pl.

2 St. Johns Pl. (Washington Ave. to Rogers Ave.)

- 34’ wide street with two lanes traveling eastbound
- Low volume: 175-225 vph at peak
- Cars tend to use the roadway as one lane
Proposal: St Johns Pl

2 St. Johns Pl. (Washington Ave. to Rogers Ave.)

- Reduce to one lane, eastbound
- Mark eastbound bike lane
  - Connects to existing routes Classon Ave., Franklin Ave., and Bedford Ave.
Existing Conditions: St. Johns Pl.

3 St. Johns Pl. (Rogers Ave to New York Ave)

- 34 ft. wide street with one lane traveling in each direction (eastbound/westbound)
- B45 bus runs in both directions
Add shared lane markings on eastbound St. Johns Pl.

Shared lane markings needed for only two blocks
Existing Conditions: St. Johns Pl.
Between New York Ave. and Ralph Ave.

4 St. Johns Pl. (New York Ave to Ralph Ave)

- 50 ft. wide street with one lane in traveling each direction (eastbound/westbound)
- 4 ft. median already exists between Utica Ave. and Ralph Ave.
Proposal: St Johns Pl.

4 St. Johns Pl. (New York Ave to Ralph Ave)

- Add 4 ft. painted center median
- Mark bicycle lanes in both directions
  - Connects to existing routes on Brooklyn Ave., Kingston Ave., planned route on St. Johns Pl. in CB 16
  - Cyclists are directed to shift to Sterling Pl. via NB Kingston Ave.
Existing Conditions: Sterling Pl.

5 Sterling Pl. Kingston Ave. to Vanderbilt Ave.

• 34 ft. wide street with one lane in traveling westbound
Proposal: Sterling Pl.

5 Sterling Pl.: Kingston Ave. to Vanderbilt Ave.

- Mark bicycle lane in westbound direction
- Serves as westbound pair for St. Johns Pl.
Proposed: Bike Connections

NYC DOT Bike Map

Legend:
- Existing Bicycle Facilities
  - Protected Bicycle Path
  - Bicycle Lane
  - Shared Lane
  - Signed Route
Existing: Utica Ave & St. Johns Pl

- Vision Zero Priority Intersection with 7 Pedestrian KSI
  - 3rd highest Ped KSI in all of Brooklyn (2010-2014 crash data)
- Designated 2013 High Pedestrian Crash Location
- Many severe pedestrian injuries occurring in west crosswalk, which also has highest pedestrian volumes
- Major bus transfer point between B45 (St. Johns) and B46 (Utica)
- High pedestrian volumes and many left turn conflicts
Proposal: St. Johns Pl. and Utica Ave

- Add turn bays on St. Johns Pl. for EB and WB lefts onto Utica Ave.
- Restrict NB left turns from Utica Ave. to WB St. Johns Pl. (69 vehicles at peak)

Pedestrian Peak: 578 people
Vehicle Peak: 69 vehicles
Proposal: Alternate Routes

Alternate Route: Sterling Pl.

Peak hour: 69 vehicles

Alternate Route: President St.
**Project Benefits**

- Creates over 5 miles of new bicycle lanes for the Prospect Heights / Crown Heights community, increasing connectivity with existing routes
- Reduces speeding by marking standard width moving lanes
- Simplifies high crash intersections for pedestrians and motor vehicles and allows simpler, safer left turns

Existing: St. Johns Pl. and Eastern Pkwy.

Proposed: Eastern Pkwy. at Rockaway Ave.
Questions?

Contact: DOT Brooklyn Borough Office at (646) 892-1350