• Brooklyn Avenue and Kingston Avenue are high crash corridors (15.9 and 20.7 traffic related serious injuries or deaths per mile, respectively)
Existing Conditions: Kingston Ave, Winthrop St to Rutland Rd

Facing south towards Winthrop Street

57 feet wide one-way roadway

57’ Combined Parking, 90° Angled Parking, & Travel Lanes
Proposed Conditions: Kingston Ave, Winthrop St to Rutland Rd

**Existing**

- 57’ Combined Parking
- 90° Angled Parking
- & Travel Lanes

**Proposed**

- 8’ Parking Lane
- 10’ Travel Lane
- 39’ Combined Travel & 60° Angled Parking Lane
Existing Conditions: Kingston Ave, Rutland Rd to Lefferts Ave

Facing south towards E New York Ave

44 feet wide one-way roadway

44’ Combined Travel and Parking Lanes
Proposed Conditions: Kingston Ave, Rutland Rd to Lefferts Ave

Existing

44’ Combined Travel and Parking Lanes

Proposed

11’ Parking Lane
10’ Travel Lane
10’ Travel Lane
13’ Parking Lane

44’
Existing Conditions: Kingston Ave, Lefferts Ave to Empire Blvd

Facing south towards Lefferts Ave

34 feet wide one-way roadway

34’ Combined Travel and Parking Lanes
Proposed Conditions: Kingston Ave, Lefferts Ave to Empire Blvd

Existing

Combined Travel and Parking Lanes

34'

Proposed

10’ Parking Lane
11’ Travel Lane
13’ Parking Lane

34’
Existing Conditions: Kingston Ave, Empire Blvd to Eastern Pkwy

Facing south towards Union Street

34 feet wide one-way roadway
Proposed Conditions: Kingston Ave, Union St to Eastern Pkwy
Existing Conditions: Brooklyn Ave, Eastern Pkwy to Lefferts Ave

34 feet wide one-way roadway

17’ Combined Travel and Parking Lane

Facing north towards Eastern Pkwy
Proposed Conditions: Brooklyn Ave

- Limits of proposed lane configuration:
  - Union St to Montgomery St
  - Empire Blvd to Lefferts Ave

- Two travel lanes would be maintained between Eastern Pkwy and Union St and between Montgomery St and Empire Blvd
Traffic Analysis of Brooklyn Ave

- Peak hour volume on Brooklyn Ave is 725 vehicles
- Signal cycles vary along the corridor
- Green phases are poorly coordinated
- A traffic model was created to study the effect of removing one southbound lane
- Shorter signal cycle lengths and coordinated green phases were found to increase vehicle flow and decrease travel time despite the reduction in the number of lanes
- The two travel lanes would merge between Eastern Pkwy and Union St
- Two travel lanes to be maintained between Montgomery St and Empire Blvd
- Project is expected to relieve congestion on Brooklyn Ave
In 2014, Franklin Ave was redesigned between Pacific St and St Johns Pl with 1 travel lane and improved signal timing.

Peak hour vehicle volume is 775 vehicles.
Similar Project: Franklin Ave, 2014 (CB8)

- Peak hour travel times decreased

Weekday Peak Hour Travel Times
Franklin Ave from St Marks Ave to Eastern Pkwy

Average Travel Time

<table>
<thead>
<tr>
<th>AM</th>
<th>PM</th>
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<tr>
<td>2:19</td>
<td>4:00</td>
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<tr>
<td>2:14</td>
<td>3:25</td>
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</tbody>
</table>

-4%  -15%

Note: Weekday average travel times derived from runs conducted 7am-9am and 4pm-6pm over three days
Before travel time surveys conducted May 6-8, 2014
After travel time surveys conducted May 27-28 and June 3, 2015
Existing Conditions: Brooklyn Ave, Lefferts Ave to Winthrop St

44 feet wide one-way roadway

Facing north towards Maple St
Proposed Conditions: Kingston Ave, Rutland Rd to Lefferts Ave

Existing

- 22’ Combined Travel and Parking Lane
- 22’ Combined Travel and Parking Lane
- 44’

Proposed

- 11’ Parking Lane
- 10’ Travel Lane
- 10’ Travel Lane
- 13’ Parking Lane
- 44’
Summary of Proposal

Kingston Ave:
- Maintain all parking and travel lanes
- Install parking lines and lane lines to organize traffic
- Upgrade 90 degree angled parking to 60 degree back-in angled parking (Winthrop St to Rutland Rd)

Brooklyn Ave:
- Create one travel lane by redesigning two narrow travel lanes
  - Maintain two travel lanes between Montgomery St and Empire Blvd
  - Two travel lanes would merge to one between Eastern Pkwy and Union St
- Maintain and widen all parking areas
- Standardize all signal cycle lengths to 60 seconds, favoring Brooklyn Ave
- Sync green lights along Brooklyn Ave
Questions?

Thank You