B82 Southern Brooklyn Select Bus Service
For presentation to CB 15 Transportation Committee | May 16, 2017
Overview

• Project Background
• B82 SBS Proposed Designs
• Next Steps
• Questions and discussion
B82 Project Background

The Southern Brooklyn B82 corridor was identified as a potential candidate for Select Bus Service in the 2009 Bus Rapid Transit Phase II Study.

- Serves 32,000 daily riders on B82 Limited and Local
- Heavily used route with slow trips
- Important east-west transit connection across Southern Brooklyn
- Connects to D N F B Q L subway lines and 21 bus routes, including B44 Nostrand SBS and B46 Utica SBS
- Serves areas far from the subway
Select Bus Service in New York City

Select Bus Service (SBS) is New York City’s brand name for Bus Rapid Transit: an improved bus service that offers fast, frequent, and reliable service on high-ridership bus routes.

SBS has brought:

• 10-30% faster bus speeds
• About 10% increase in ridership
• More reliable service
• Customer satisfaction of 95%
• Safer streets / reduction in crashes

There are 12 Select Bus Service routes in operation serving all 5 boroughs.
Select Bus Service Features

- **Dedicated Bus Lanes**
  - Faster bus rides

- **Signal Priority for Buses**
  - Reduced traffic conflicts between buses and traffic
  - More reliable bus service
  - Buses spend less time stopped at red lights

- **Off-Board Fare Collection**
  - Quicker bus boarding

- **All-Door Boarding**
  - Buses spend less time waiting at bus stops
Select Bus Service Features

- **Improved Station Amenities**
- **Real-Time Passenger Information**
  - More attractive, appealing bus stops
  - Better trip information for riders to know when the bus is coming
  - More comfortable wait for the bus
- **Pedestrian Safety Improvements**
  - Better visibility for pedestrians, bus operators, and drivers
  - Clearer, shorter pedestrian crossings
Community Engagement

• **Borough Hall Kickoff Meeting** (June 2015)

• **Online Feedback Portal Launches** (August 2015)
  - Over 130 location specific comments to date
  - Site is still live at nycdotfeedbackportals.nyc

• **On-Street Outreach** (August 2015 – August 2016)
  - Over 1500 passengers reached at 12 Bus Stops
  - 3000 project information cards distributed

• **Stakeholder Meetings** (June 2015 – present)
  - 27 meetings to date across the corridor

• **Community Board Meetings** (January 2016 – Present)
## Community Engagement

### 2015
- Elected Officials Briefing Kickoff
- Kings Highway BID Meeting
- On-Street Outreach:
  - Pennsylvania Ave
  - Kings Highway at E.15th St
    - Ralph Ave at Flatlands Ave
    - Bay Parkway at 86th St
    - Glenwood Rd at Rockaway Parkway
    - Flatlands Ave at Rockaway Parkway
    - Bay Parkway at 86th St #2
    - Kings Highway at W. 7th St
  - Kings Hwy at McDonald Ave
  - Kings Hwy at Ocean Ave
  - Kings Hwy at E. 15th St #2
- Brooklyn Borough Service Cabinet Presentation
- Kings Highway BID Walkthrough

### 2016
- CB18 Full Board Presentation
- Kings Highway BID Monthly Meeting Presentation
- NYCHA Breukelen Houses TA President Briefing
- Holy Family RC Church
- Starrett City TA President Briefing
- NYCHA Breukelen Houses TA Meeting
- Brooklyn Auditory Oral School Consultation
- Starrett City TA Meeting
- CB18 Leadership Meeting
- Fraser Square Field Meeting
- New York Community Hospital Walkthrough
  - St Matthew’s Church Briefing
  - Canarsie Full Gospel Briefing
  - Christian Cultural Center Briefing
  - Mt. Sinai Beth Israel Walkthrough

### 2016 continued
- Stakeholder meeting with Kings Hwy Beautification Association, Edith and Carl Marks Center
- Magen David Yeshiva Discussion
- Christian Cultural Center Traffic Observation
- Kings Hwy @ Fraser Square Constituent Walkthrough

### 2017
- Library Outreach
  - Canarsie Branch
  - Highlawn Branch
  - Kings Highway Branch
  - Highlawn Branch #2
- Senior Centers Outreach
  - Vandalia Neighborhood
  - Abe Stark Center
  - Midwood Neighborhood Center
  - Ocean Parkway Neighborhood Center
Existing B82 Bus Speeds

Bus stops blocked by traffic lead to slow bus speeds along Kings Highway
Routing from Flatlands Ave to Kings Hwy is slow, adds to congestion
Complicated routing around Rockaway Pkwy Station leads to slow bus speeds

Traffic/parking/truck loading lead to slow bus speeds along Kings Highway

Dwell Time (Seconds)

Average In-Motion Speed (mph)
B82 Transit Issues

- Over 50% of trip spent delayed, crawling, or at bus stop
- Customers wait in long lines to pay on board the bus
- Bus stops lack amenities, not ADA accessible
B82 Safety Issues

- Long crossings
- Lack of pedestrian refuges
- Limited visibility
- Complex intersections
- Difficult turns across traffic
- Narrow median bus stops

Kings Hwy @ Ocean Pkwy
Kings Hwy @ Nostrand Ave
Flatlands Ave @ Ralph Ave
Flatlands Ave @ Rockaway Pkwy
Flatlands Ave @ Pennsylvania Ave

B82 SBS Proposed Route
- Proposed B82 SBS Route
- Existing B82 Limited Route
- Top 5 Crash Location

nyc.gov/visionzero
B82 SBS Service

B82 Limited will be converted to B82 SBS

• Within CB15, B82 SBS will serve the same stops as the existing B82 Limited

• B82 SBS will operate for more hours of the day than the B82 Limited (existing Limited service does not operate mid-day or in the evenings)

• All current stops will still be served by the B82 Local
Normalize B82 service with all Locals serving Coney Island, all SBS ending at Cropsey/Bay 37 St

Proposed re-route westbound via Glenwood Rd streamlines B82 and B6

Proposed re-route connects Kings Hwy to Flatlands Ave via Ave K instead of existing Flatbush Ave

B82 SBS Proposed Route
- Proposed B82 SBS Route
- Existing B82 Limited Route
B82 SBS Stops

Daily transfers from B82 to subway:
- B-Q: 1,760 riders
- F: 620 riders

12,500 people in CB15 use the B82 Limited, B82 Local, or B7 service each day
B82 SBS Proposed Designs
Existing: Kings Highway (Bay Pkwy to Ocean Ave)

- Commercial/shopping corridor
- Narrow roadway with one lane in each direction
- Major east-west transit corridor
  - Used by B82 Local, B82 Limited, B7 Local, other non-MTA buses
  - 3 subway stations (B/Q, F, N)
  - During AM and PM rush hours, buses come every 1-2 minutes along Kings Hwy
- Local truck route

Kings Hwy at Coney Island Ave, looking east
Kings Hwy at E 16 St, looking east
Existing: Kings Highway (Bay Pkwy to Ocean Ave)

- Single lane for both directions of traffic creates long queues at busy times
- Truck unloading in bus stop
- Double parking/loading blocks buses & traffic
- Blocked bus stops force bus to load/unload in travel lane
- Bus unable to pull into stop, blocks lane
Kings Highway Shoppers Survey

- Surveys conducted March and April 2016
- Face-to-face interviews with 7,500 people on Kings Highway between W 10th St and Ocean Ave

How People Get to Kings Highway

**Weekday**
- Walk: 51%
- Transit: 24%
- Car: 23%

**Weekend**
- Walk: 58%
- Transit: 19%
- Car: 21%

Primary Purpose of Trip

1. Shopping (grocery, drug/discount store, clothing/shoes)
2. Work
3. Dining/restaurant
4. Medical

1. Shopping (grocery, drug/discount store, clothing/shoes)
2. Dining/restaurant
3. Work
4. Personal errand
Kings Highway Business Survey

- Surveys conducted February and March 2016
- Interviews with 235 businesses along Kings Highway
- Questions on parking and delivery habits and needs

For how long does a customer normally visit your business?

85% of businesses report typical visit is 1 hour or less

What delivery/loading problems do you deal with?

67% of businesses report double parking interferes with deliveries

46% of businesses report vehicles at curb interfere with deliveries

Does your business offer off-street parking for these uses?

No off-street parking 96%

Customers 1%

Customers & deliveries 3%

0% of businesses offer employee parking; many feed meters throughout day

At what times does your business typically receive deliveries?

- Midnight to 7 AM: 2%
- 7 AM to 10 AM: 40%
- 10 AM to Noon: 78%
- Noon to 2 PM: 69%
- 2 PM to 7 PM: 47%
- 7 PM to Midnight: 3%

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Kings Highway Business Survey

How many deliveries do you receive on a typical weekday?

- Less than 1: 33%
- 1 to 2: 39%
- 3 to 5: 18%
- 6 to 10: 7%
- More than 10: 3%

2/3 of businesses receive 1 or more deliveries per day

How long do deliveries typically take?

- Over 60 min: 1%
- 30-60 min: 6%
- 15-30 min: 26%
- Less than 5 min: 37%
- 5-15 min: 30%

2/3 of deliveries take 15 minutes or less

How do deliveries arrive?

- Box Truck: 58%
- Cargo Van: 15%
- Tractor trailer: 20%

80% of deliveries arrive by box truck or smaller vehicle

What type of delivery zone would be most helpful for your business?

- In front of business: 17%
- Down the block / across the street: 15%
- Around the corner: 16%
- I prefer the existing situation: 44%

48% of businesses would find a delivery zone helpful
Survey & Time Lapse Takeaways

• Large majority of people coming to Kings Highway arrive without a car, either on foot or by transit

• For those who drive, parking is on-street, in demand particularly 12-7 PM, short visits per business (< 1 hr), availability limited by meter-feeding throughout day

• Deliveries are common, often short, occur most frequently 10 AM – 2 PM, in small trucks or vans, often hindered by parking/double parking activity
  – About half of businesses would find nearby delivery zone useful
Proposed: Kings Highway (Bay Pkwy to Ocean Ave)

Kings Highway in 24 Hours

12 – 7 AM
• Light transit/traffic
• Light delivery activity
• Light parking activity

7 – 10 AM
• Heavy transit/traffic
• Moderate delivery activity
• Light parking activity

7 PM – 12 AM
• Moderate transit/traffic
• Light delivery activity
• Moderate parking activity

10 AM – 2 PM
• Moderate transit/traffic
• High delivery activity
• Moderate parking activity

2 – 4 PM
• Moderate transit/traffic
• Moderate delivery activity
• Heavy parking activity

4 – 7 PM
• Heavy transit/traffic
• Light delivery activity
• Heavy parking activity

• Add targeted loading zones
• Add metered parking on side streets, where possible

• Add bus lanes to increase bus speeds and reliability
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District Treatments

Key design pieces:

- Kings Hwy curbside bus lanes: McDonald Ave to E 4 St (north side), Ocean Pkwy to Coney Island Ave (north side), E 13 St to E 15 St (south side), E 15 St to E 18 St (north side), E 18 St to Ocean Ave (south side)
- Kings Hwy/Quentin Rd at E 12 St safety improvements
- Kings Hwy main road bus lanes: E 23 St to Nostrand Ave
- Kings Hwy at Nostrand Ave safety improvements

B82 SBS Street Treatments*

- Bus lane one-way, along curb
- Bus lane two-way, travel lane
- Bus lane two-way, extra lane space
- Widen/reconfigure travel lanes
- Major safety treatment
- No new treatment proposed

*Note: Bus lanes serve all buses, emergency vehicles, and right turns
Proposed: Kings Highway (Bay Pkwy to Ocean Ave)

- Transit Signal Priority – keeps lights green longer for buses (& traffic)
- Curbside bus lanes help provide faster, more reliable bus service
- Parking & loading spaces in between bus lane segments
- Consistent travel lane in each direction
- Bus able to pull into bus stop flush to curb, out of traffic

SBS Example – Main St, Queens, Q44 SBS
District Treatments

CB 15 District

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Existing: Kings Highway at E 12 St

- Quentin eastbound dead-ends, forces traffic onto Kings Hwy
- Inadequate space on E 12 St between Kings Hwy and Quentin Rd
- Joyce Kilmer Triangle Park – popular plaza area
- Sidewalk dead-ends, forces pedestrians into street
- Traffic blocks intersection on E 12 St at Quentin Rd
Proposed: Kings Highway at E 12 St

- Close E 12 St between Quentin Rd and Kings Hwy, extend park / plaza space
- Extend sidewalk to connect to crosswalks
- Convert this block of Quentin Rd to one-way westbound, add angled parking
- Quentin eastbound to dead-end at Coney Island
- Areas marked in gray = paint short-term, concrete long-term
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Existing: Kings Highway (E 23 St to Ave K)

• Wide, boulevard style portion of Kings Highway
• Narrow, deteriorating medians serve as bus stops
• Large, complex intersections
• Major east-west transit corridor
  – Used by B82 Local, B82 Limited, B7 Local, school buses, coach buses, other buses
  – During AM and PM rush hours, buses come once per minute along Kings Hwy

Kings Hwy at Ave N, looking east

Kings Hwy at Ave K, looking northeast
Existing: Kings Highway (E 23 St to Ave K)
Proposed: Kings Highway (E 23 St to Ave K)

- Kings Hwy at Nostrand Ave
- Larger, lighted bus shelters
- Real-time passenger information screens and off-board fare payment
- Reconstructed, level landing platforms
- Wider medians with ample space for passengers
- Transit Signal Priority – keeps lights green longer for buses (& traffic)
- Added seating
- ADA accessible bus stops with subway-style edge strips
Existing: Kings Highway (Nostrand Ave to Ave K)
Proposed: Kings Highway (Nostrand Ave to Ave K)
Next Steps

Spring 2017
• Present draft plan to community boards and elected officials
• Continue stakeholder outreach

Summer 2017
• Update street design based on community feedback
• Begin implementation for critical safety and transit accessibility locations of project: Reconstruct medians at Kings Hwy at Nostrand Ave & Flatbush Ave

Fall 2017
• Present final plan to community boards and elected officials
• Continue stakeholder outreach

2018
• Implement project street designs, SBS stop amenities
• Launch B82 Southern Brooklyn Select Bus Service
Thank You!

• Questions?

• We appreciate your input! You can provide it at your convenience online:
  – www.nyc.gov/brt or
  – nycdotfeedbackportals.nyc/south-brooklyn-sbs

• To invite us to community events or give other feedback, please email us at brt@dot.nyc.gov