B82 Southern Brooklyn
Select Bus Service
May 9, 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

- Faster bus rides
- Reduced traffic conflicts between buses and traffic
- More reliable bus service
- Buses spend less time stopped at red lights

- Quicker bus boarding
- Buses spend less time waiting at bus stops
Select Bus Service Features

Improved Station Amenities

- Better visibility for pedestrians, bus operators, and drivers
- Clearer, shorter pedestrian crossings
- More attractive, appealing bus stops
- Better trip information for riders to know when the bus is coming
- More comfortable wait for the bus

Real-Time Passenger Information

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
- CM Williams 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
  - Canarsie Branch
  - Midwood Neighborhood Center
  - Ocean Parkway Neighborhood Center
- CB 5 Transportation Committee
- CB 11 Transportation Committee

Canarsie outreach
Existing B82 Bus Speeds

Routing from Flatlands Ave to Kings Hwy is slow, adds to congestion

Flatlands at Ralph Ave is common congestion point

Complicated routing around Rockaway Pkwy Station leads to slow bus speeds
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

In Motion: 48%
Signal Delay: 29%
Bus Stops: 21%
Other Delays: 2%
B82 Safety Issues

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

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

Kings Hwy @ Ocean Pkwy
Kings Hwy @ Nostrand Ave
Flatlands Ave @ Pennsylvania Ave
Flatlands Ave @ Rockaway Pkwy
Flatlands Ave @ Ralph Ave
B82 Route Changes

Proposed re-route via Glenwood Rd streamlines existing routing

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

Proposed new stop

CB 18 District

Canarsie

B82 SBS Proposed Stops

- Proposed B82 SBS Stop
- Proposed B82 SBS Route
- Existing B82 Limited Route
B82 SBS Proposed Designs
District Treatments

- Key design pieces:
  - Flatlands/Ralph intersection redesign
  - Flatlands Ave from E 80 St to Rockaway Pkwy
  - Glenwood Rd from Rockaway Pkwy to E 103 St
  - Flatlands Ave from E 103 St to Louisiana Ave

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
Existing: Flatlands Ave (Ave I to Ralph Ave)

- Congested area and traffic lights not well synchronized
- Large intersections w/ many overlapping movements
- Long pedestrian crossings
Proposed: Flatlands Ave at Ave I

- Simplify intersection by converting Ave I to one-way westbound for this block
- Shorten crosswalks by expanding corner
- Add angled parking
- Add eastbound bus lane from E 57 St to Ralph Ave to help with bus & traffic congestion here
Existing: Flatlands Ave at Ralph Ave

- Slip complicates intersection – wide street with little traffic
- Very long pedestrian crossings with vehicles turning
- Many overlapping movements increase crash risk
- Highest # of crashes on B82 corridor (2010-2014: 103 crashes resulting in 134 injuries)

Heavy turns
Proposed: Flatlands Ave at Ralph Ave

- Convert this block from two-way to one-way
- Close slip
- Pedestrian island
- Traffic splits to one left turn lane and one through lane, with longer green light, longer turn bay
- Two right turn only lanes
- Northbound left turn banned to improve traffic flow
- Bus lane
- Eastbound left turn banned
- + signal timing changes for improved safety, traffic flow
- + better synchronization of traffic lights along Flatlands
Proposed: Flatlands Ave at Ralph Ave

Purple = Proposed banned turns
Blue = Alternate routes to make turns
Existing: Flatlands Ave (E 80 St to Rockaway Pkwy)

- Traffic includes **high volume of buses and trucks**
- **Narrow travel lanes**, especially for larger vehicles
- **Bus stops not wide enough** to fully accommodate buses without partially blocking travel lane
- **Small left turn bays** do not provide enough space for left turning vehicles, overlap with adjacent lanes
Proposed: Flatlands Ave (E 80 St to Rockaway Pkwy)

- Widen travel lanes, bus stops, parking lanes to reduce lane conflicts
- Remove small, narrow, lightly used left turn bays along Flatlands Ave
- Keep turn bays at major intersections (E 80 St, Remsen, Rockaway Pkwy)
District Treatments

- Key design pieces:
  - Flatlands/Ralph intersection redesign
  - Flatlands Ave from E 80 St to Rockaway Pkwy
  - Glenwood Rd from Rockaway Pkwy to E 103 St
  - Flatlands Ave from E 103 St to Louisiana Ave

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
B82 routing to Canarsie-Rockaway Pkwy

- Westbound loop confusing and time consuming for bus customers
  - Can take up to 10 minutes to return to Flatlands Ave
- Westbound and eastbound routing does not match

Existing Routing

![Map of Existing Routing](image)
B82 routing to Canarsie-Rockaway Pkwy

- Propose re-routing westbound buses via Glenwood Rd
  - Streamlines routing, removes unnecessary distance & turns
  - More customer-friendly routing by matching both directions
Existing: Glenwood Rd (Rockaway Pkwy to E 103 St)

- Land uses along north side:
  - Auto shops with garages & parking lots (2)
  - MTA property with parking lot
  - Residences (3 with driveways, 5 without)
  - Off-street parking area
- Much of parking on north curb taken up by adjacent auto/rental shops that store trucks and vans in the street
  - 20-40% of spaces open at any given time
Existing: Glenwood Rd (Rockaway Pkwy to E 103 St)

Existing one-way on Glenwood only serves eastbound buses
Proposed: Glenwood Rd (Rockaway Pkwy to E 103 St)

- Bus lane replaces parking lane along north curb (E 98 St to E 103 St)
- Direct bus connection to Canarsie-Rockaway Pkwy station
- Eastbound open to all traffic, Westbound buses only

L - Rockaway Parkway Station
Gravel & Epoxy Curb Extension

Glenwood Rd at E 98 St
Existing: Glenwood Rd (Rockaway Pkwy to E 103 St)

Glenwood Rd at E 98 St
Proposed: Glenwood Rd (Rockaway Pkwy to E 103 St)

Glenwood Rd at E 98 St
Existing: Flatlands Ave  (E 103 St to Pennsylvania Ave)

- Wider portion of Flatlands with concrete medians
- 3 city bus routes and 1 express bus route use this portion of Flatlands Ave
- Transit connection from Pennsylvania Ave/Starrett City to Canarsie-Rockaway Pkwy station
Proposed: Flatlands Ave (E 103 St to Pennsylvania Ave)

- Glenwood Rd bus lane from E 103 St to Rockaway Pkwy Station
- Eastbound bus lane from E 103 St to Louisiana Ave
- Westbound bus lane from Pennsylvania Ave to E 105 St
- Glenwood Rd bus lane from E 103 St to Rockaway Pkwy Station
- Eastbound bus lane from E 103 St to Louisiana Ave
Proposed: Flatlands Ave (E 103 St to Pennsylvania Ave)

Example of offset bus lanes: Bx41 Webster Ave SBS, The Bronx
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: Kings Hwy at Nostrand, Kings Hwy at Flatbush, Flatlands Ave at Ralph 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