Jamaica Ave at Jackie Robinson Pkwy
Intersection Safety and Mobility Improvements

New York City Department of Transportation
Office of Research, Implementation and Safety
Presented to Brooklyn Community Board 5 on Monday, April 11th, 2016
Five-legged intersection where the Jackie Robinson Pkwy starts/ends

Adjacent to MTA East New York Bus Depot on Jamaica Ave

Alabama Ave J/Z subway station and Broadway Junction A/C/J/Z/L subway stations nearby

MTA East New York Bus Depot

Alabama Ave J/Z Station
Vision Zero Priority & Safety Data

- Multi-agency effort to reduce traffic fatalities in NYC

- Borough Action Plans released in 2015

- Priority Intersections, Corridors, and Areas identified for each borough:
  - Pennsylvania Ave is a Priority Corridor
  - Bushwick Ave is a Priority Corridor

2010-2014:
- 373 total injuries
- 7 KSI (persons killed or severely injured)

Very high number of severe injuries
Existing Conditions: Pedestrians

Pedestrians cross north side of intersection with no marked crosswalk or pedestrian signals (100ft crossing)

Long crossing distance on Jamaica Ave (100ft crossing)
Existing Conditions: Congestion

Congestion at all approaches

Heavy traffic on the Jackie creates congestion and Jamaica-bound traffic blocks Pennsylvania-bound traffic.

Buses turning right to Pennsylvania Ave get stuck and block through traffic.

And few vehicles use left turn lane.

Pennsylvania Ave signal display and lane markings confuse drivers.

Left turns to Jamaica Ave block traffic.
Proposed Safety Improvements
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Install new crosswalks and pedestrian signals on north leg and across intersection

Reconstruct and expand pedestrian island in north crosswalk

Install pedestrian island in east crosswalk
Proposed Safety Improvements

- Ban low-volume left turn from Jamaica Ave to Bushwick Ave (peak hour volume: 55)
- Turn ban allows for additional green time for Jamaica Ave-bound traffic on the Jackie Robinson
- Empty left turn lane
- Extend and expand median
- Add parking on south curb of Jamaica Ave (8-9 spaces)
- Create 2 lanes to Jackie plus 1 lane for local traffic
Proposed Safety Improvements

- **Install lane markings on Bushwick Ave**
- **Simplify signal display and lane markings on Pennsylvania Ave**
- **Ban low-volume, sharp left turn from Pennsylvania Ave to Jamaica Ave, majority turning are buses (peak hour volume: 36) (Reroute B20 B83 Q24 buses)**
- **Change lane markings so turning vehicles don’t block through traffic in center lane**
**Project Benefits**

- New crosswalks and pedestrian signals:
  - Create safer crossings and accommodate pedestrian desire line

- Pedestrian islands and median extension:
  - Shorten crossing distances and create safe places for pedestrians to wait
Project Benefits

- Left turn ban from Jamaica Ave to Bushwick Ave:
  - Allows for additional through lane to Jackie Robinson Pkwy
  - Allows for additional green time for southbound Jackie Robinson Pkwy

- Additional green time for Jackie Robinson Pkwy heading to Jamaica Ave:
  - Reduces congestion for southbound parkway traffic
  - Prevents Jamaica Ave-bound traffic from blocking Pennsylvania Ave-bound traffic
Project Benefits

• Left turn ban from Pennsylvania Ave to Jamaica Ave:
  - Reduces conflict in intersection
  - Reduces congestion because through traffic not blocked by left turning vehicles

• Pennsylvania Ave/Bushwick Ave new signal display and lane designations:
  - Streamlines traffic movements
  - Reduces congestion and confusion