Burke Ave Traffic Calming

Community Board 12 Transportation Committee, Bronx



RODUCI

Commissioner Polly Trottenberg New York City Department of Transportation Office of Research, Implementation and Safety February 4, 2014

Project Area

- Project area: Burke Ave from Bronx Park E to E Gun Hill Rd
- Corridor runs through 2 Community Boards CB 11 & CB 12
- 6 lanes (4 travel, 2 parking)
- 60' wide roadway



Bronx Park E at Burke Ave, looking east

Need: Why Burke Ave?

- Community request to improve safety along route
- High amount of severe injuries
- High speeds
 - Max recorded speed of 50 mph
 - Speeders (85th Percentile) avg 37 mph



Injury Summary, 2007-2011 (5 Years)

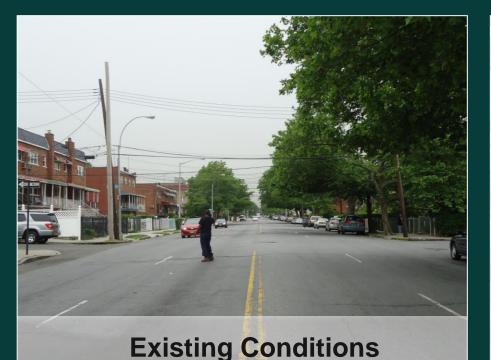
	Total	Severe	Fatalities
	Injuries	Injuries	
Pedestrian	44	2	0
Bicyclist	9	0	0
Motor Vehicle Occupant	262	7	0
Total	315	9	0



Boston Rd at Burke Ave, looking west

Project Details

- Install flush center median with turn bays
- Parking lane stripe
- Remove one through travel lane in each direction
- Refurbish crosswalks and markings at necessary locations



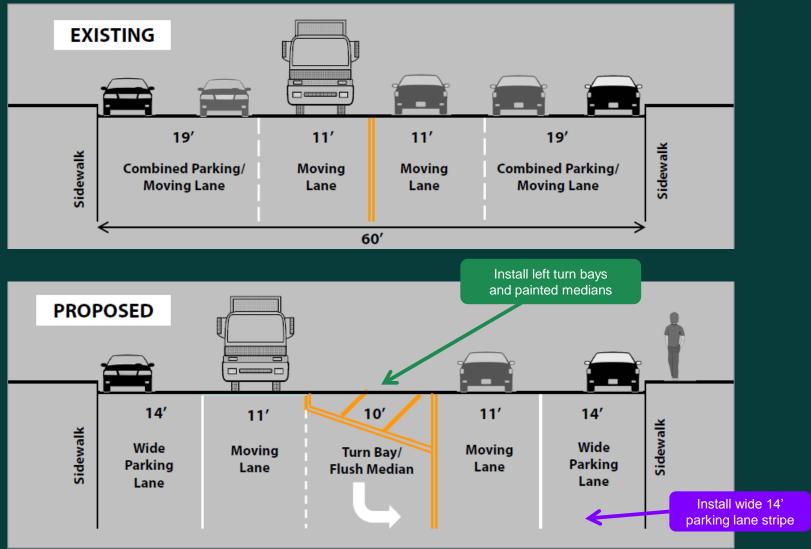


Linden Blvd & Nostrand Ave, Brooklyn, looking east

Boston Rd at Burke Ave, Bronx, looking west

Project Proposal

Project Limits: Burke Ave from Bronx Park East to E Gun Hill Rd



Evaluation of Lane Removal

Congested Lane

• 700 vehicles per hour or above

Existing (2 lanes)

- Maximum 163 vehicles per lane
 Proposal (1 lane + left turn bays)
- Maximum 327 vehicles per lane Maximum Recorded Peak Volume (AM & PM)

Modeled Intersection Typical of Route Burke Ave at Boston Rd (AM Peak 8-9)

- Existing: 18.6 secs delay
- Proposal: 20 secs delay
 Very minor increase in delay

163 Existing Max Lane Volume **327** Proposal Max Lane Volume

700 Vehs per Hour

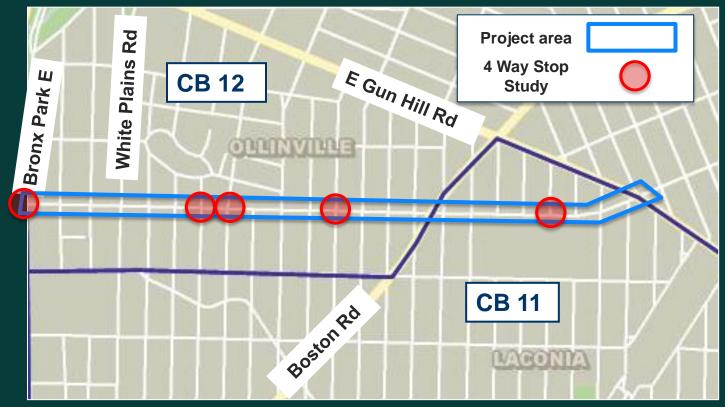
Safety Issue-Uncontrolled Intersections

Safety Issue

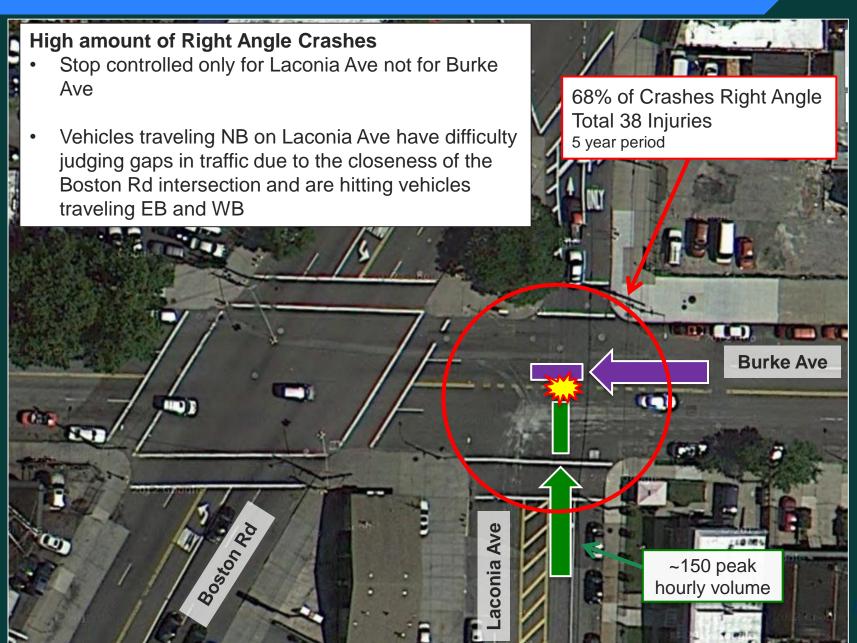
• 33% of crashes involving pedestrians occurred at uncontrolled intersections

Proposed Solution

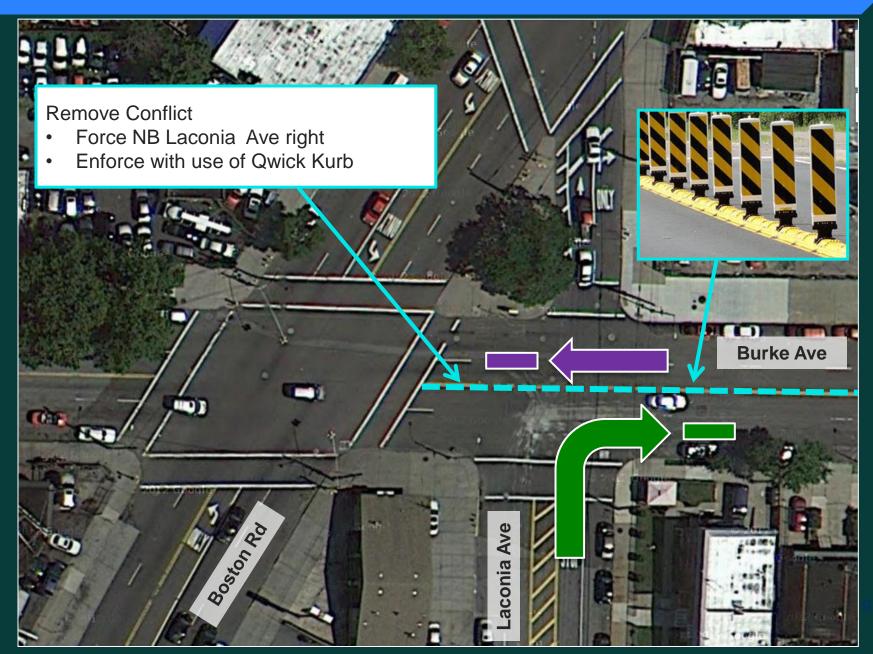
- 4 way stops requested for Bronx Park E, Wallace Ave, Colden Ave, Barnes Ave and Pearsall Ave
- Study involves analyzing volumes, crashes, and injuries; the intersection must meet certain thresholds for a 4 way stop to be considered



Safety Issue - Laconia Ave at Burke Ave

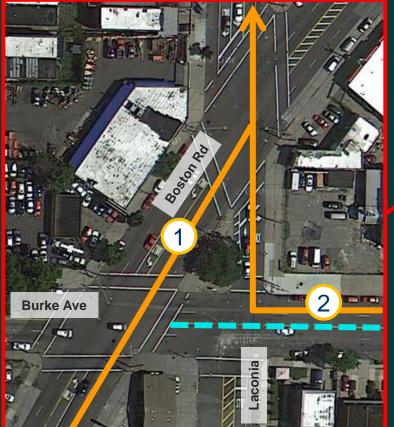


Proposed Solution - Laconia Ave at Burke Ave



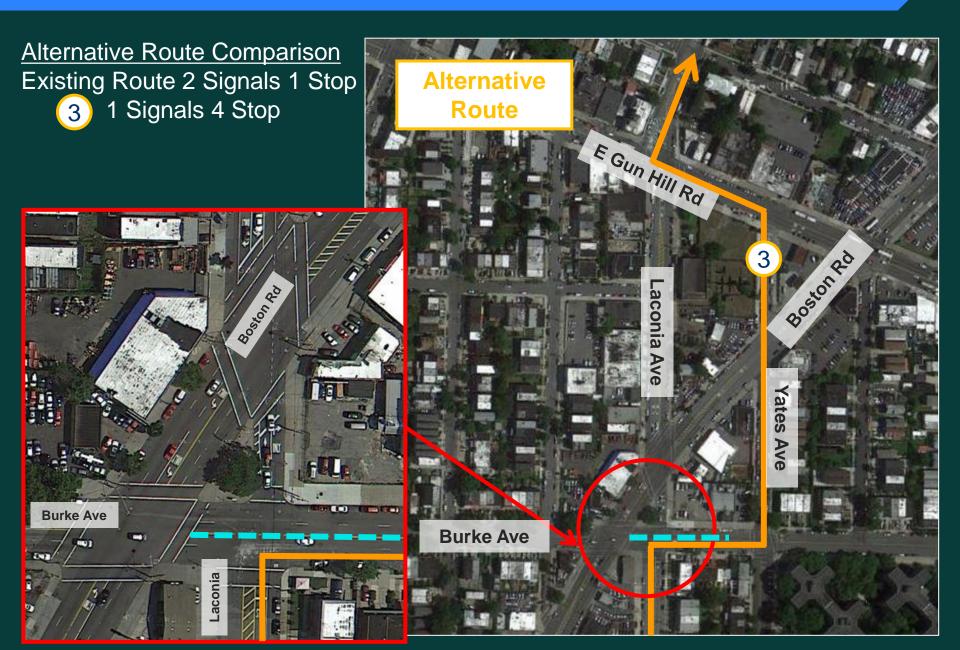
Proposed Solution - Laconia Ave at Burke Ave

Alternative Routes Comparison Existing Route 2 Signals 1 Stop 1 3 Signals 1 Stop 2 2 Signals 1 Stop

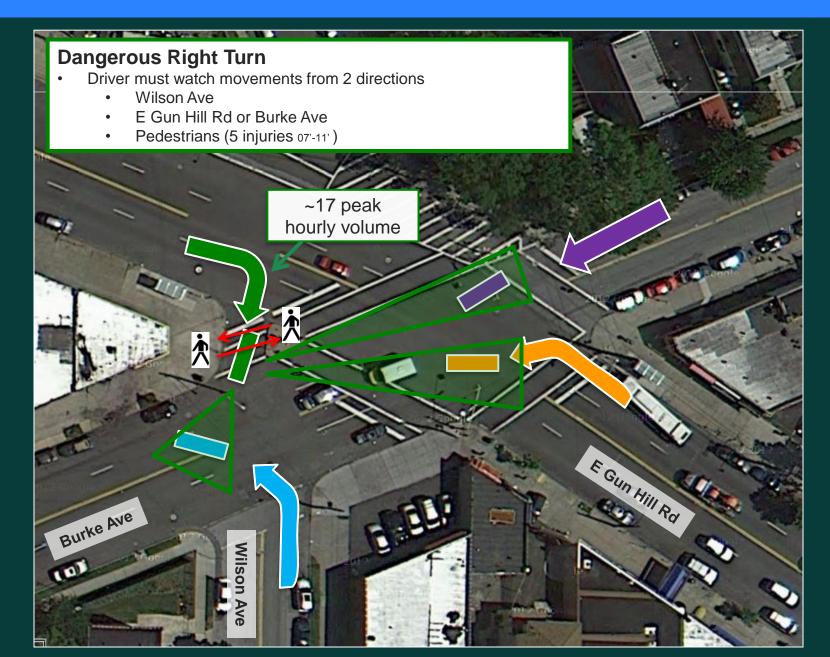




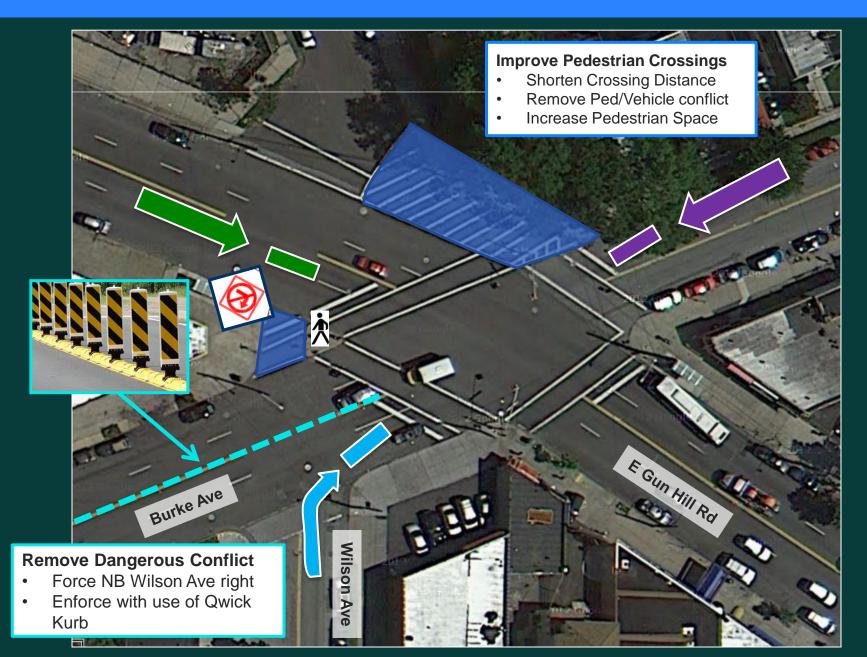
Proposed Solution - Laconia Ave at Burke Ave



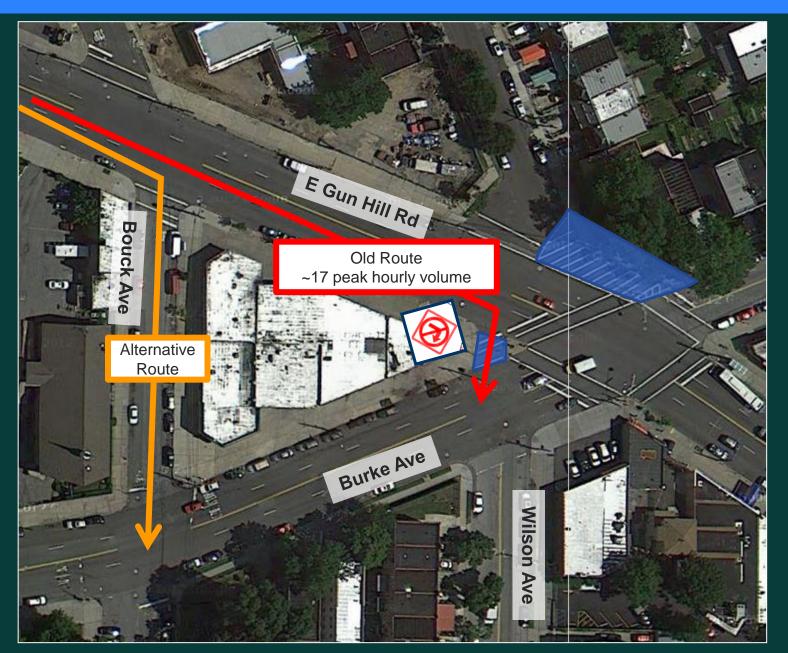
Safety Issue - E Gun Hill Rd at Burke Ave



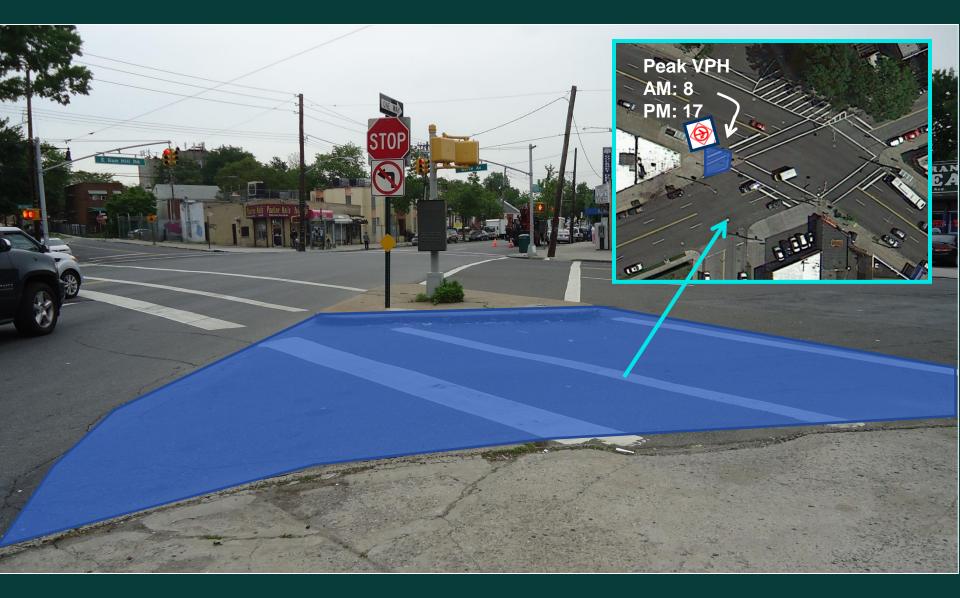
Proposed Solution - E Gun Hill Rd at Burke Ave



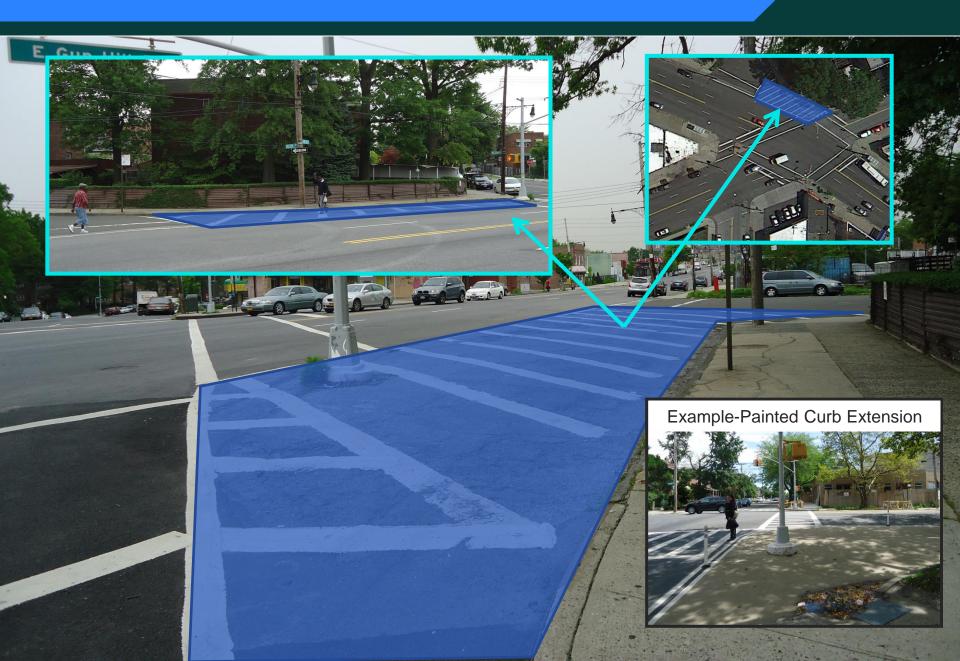
Proposed Solution – E Gun Hill Rd at Burke Ave



Increase Ped Space with Concrete – E Gun Hill Rd at Burke Ave



Painted Curb Extension-E Gun Hill Rd at Burke Ave



Proposal Benefits

Painted Median and Parking Stripe

- Less weaving and better organized traffic
- Safer pedestrian crossings
- Removes excess capacity and reduces ability to speed

Left Turn Bays

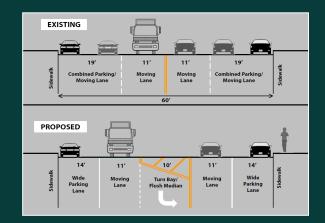
• Simpler, safer left turns

Laconia Ave at Burke Ave

 Removal of dangerous conflict causing right angle crashes

E Gun Hill Rd at Burke Ave

- Simplify intersection to reduce dangerous conflicts
- Safer pedestrian crossings





Boston Rd/Laconia Ave at Burke Ave, looking north



E Gun Hill Rd at Burke Ave, looking southeast



Thank You

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