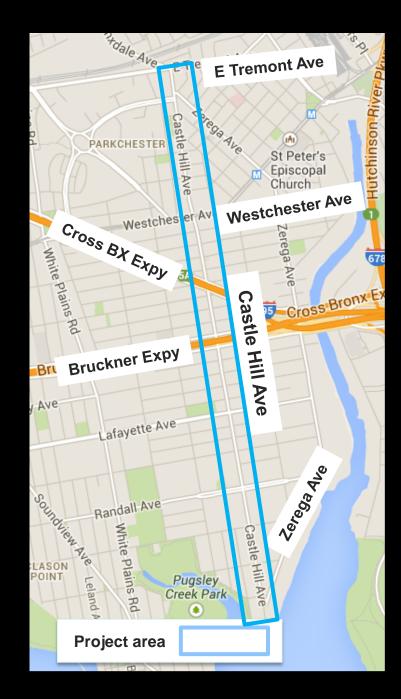


Project Location

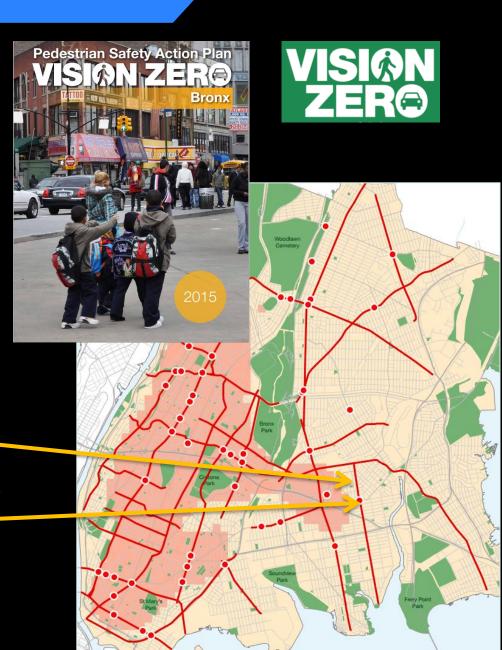
- Project area: Castle Hill Ave from E Tremont Ave to Hart St (2.1 mi)
- Corridor runs entire length of Community Board 9, and small section of CB10
- Borders the Parkchester Neighborhood Slow Zone
- Connects both Cross Bronx Expy and Bruckner Expy
- Schools and libraries in north section
- Residential areas in north and south sections



Vision Zero Priority Corridors

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2015
- Priority Intersections, Corridors, and Areas identified for each borough
 - Castle Hill Ave identified as a Priority Corridor for the Bronx
 - Castle Hill Ave & Westchester
 Ave identified as a Priority
 Intersection for the Bronx

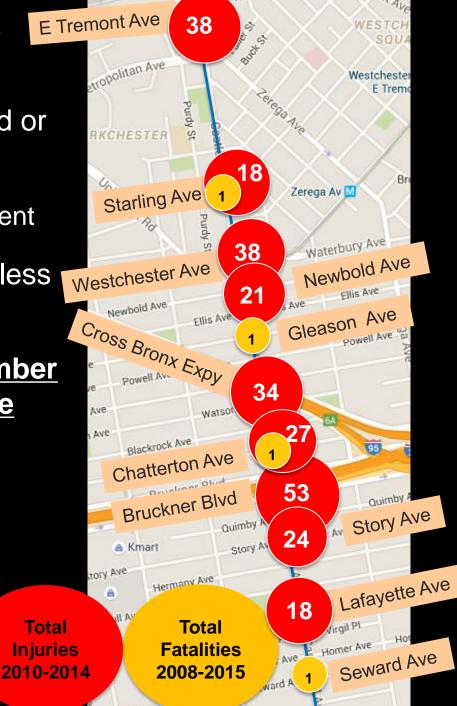


Why Castle Hill Ave?

- 2010-2014: 28 KSI (persons killed or severely injured)
- 4 Pedestrian Fatalities, 2008-present
- Total injuries: pedestrian injuries less than ¼ motor vehicle injuries
- Severe injuries: near same number of pedestrian and motor vehicle occupant injuries

Castle Hill Ave - E Tremont Ave to Hart St, BX Injury Summary, 2010-2014 (5 Years)

	Total	Severe	Fatalities	KSI
	Injuries	Injuries		
Pedestrian	95	12	2	14
Bicyclist	26	1	0	1
Motor Vehicle Occupant	390	13	0	13
Total	511	26	2	28



Existing Conditions

- 6 lanes
 - 4 travel, 2 parking
- 60' wide roadway
- Wide travel lanes
- Faded markings
- Heavy traffic volumes between Westchester Ave & Bruckner Expressway
- Speeding
- U-turns
- Double parking

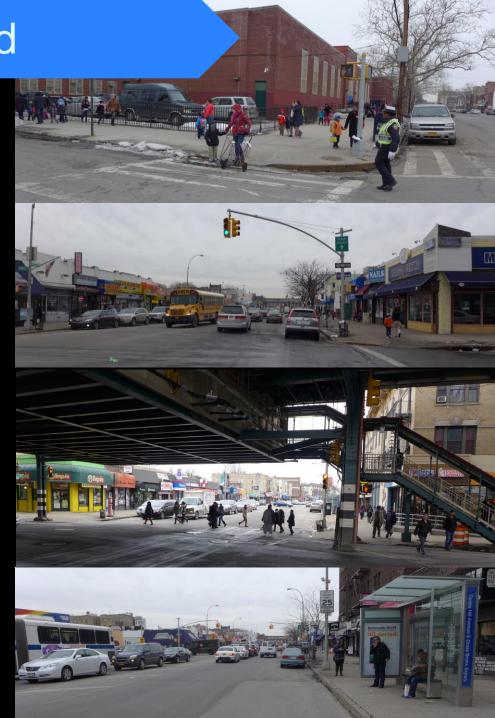




Walkable Neighborhood

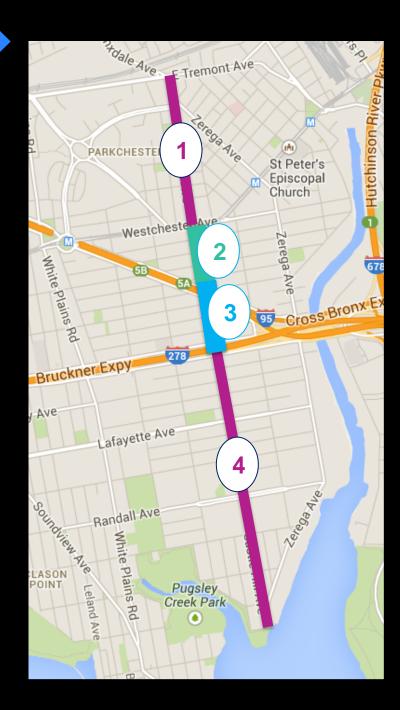
- Important connection between the neighborhoods of: Castle Hill, Union Port, Parkchester, Westchester Square, and Morris Park
- Pedestrian and cyclists use the corridor to access:
 - Parks
 - Subway, Buses
 - Neighborhood shops
 - Schools

Residents should feel safe walking and biking along Castle Hill Avenue.



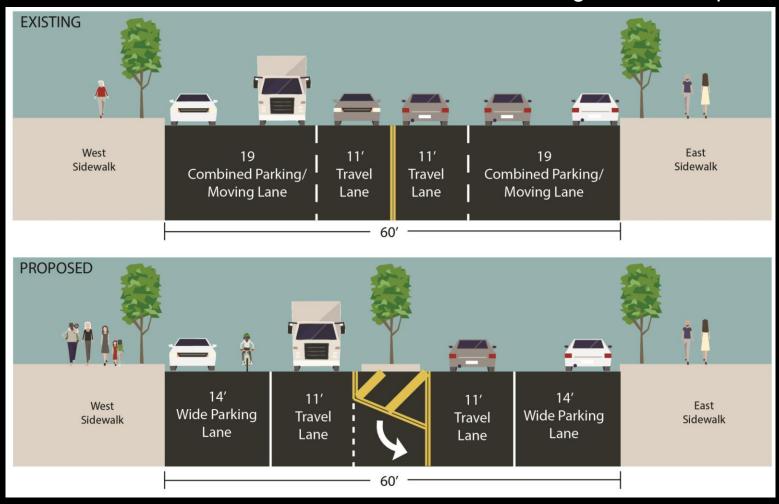
Proposal: Castle Hill Ave

- Goal: calm traffic where possible
- Proposal in four sections to accommodate different traffic volumes
 - 1. E Tremont to Westchester Ave (one lane each way, LT bays)
 - 2. Westchester Ave to Powell Ave (1 lane NB, 2 lanes SB)
 - 3. Powell Ave to Bruckner Blvd (same lane setup as now)
 - 4. Bruckner Blvd to Hart St (one lane each way, LT bays)



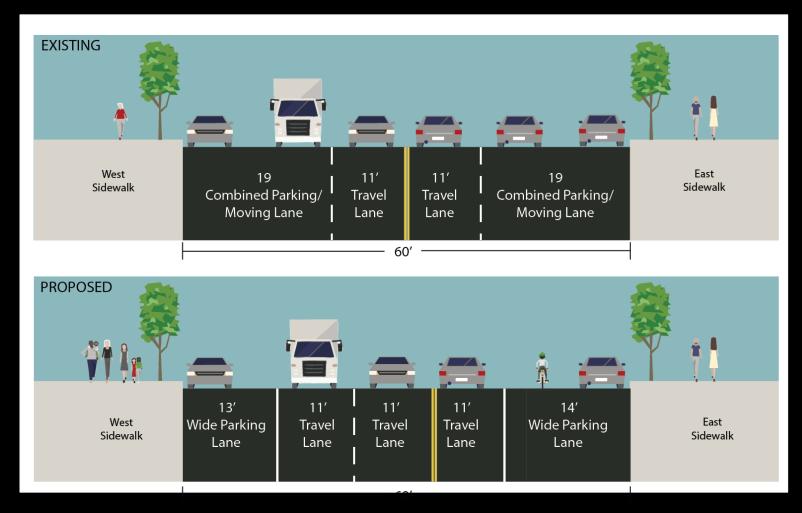
Proposal: E Tremont Ave to Westchester Ave

Residential and School area, with 25-48% of vehicles traveling above the speed limit



4 to 3 calming, with left turn bays, and wide parking lanes

Proposal: Westchester Ave to Powell Ave

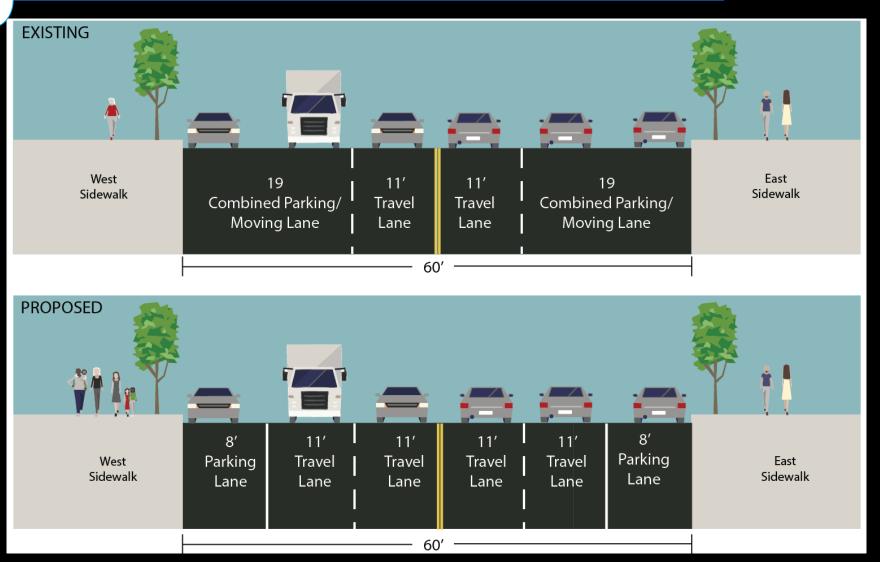


Higher volumes southbound than northbound:

1 travel lane northbound and 2 travel lanes southbound

With wide parking lanes

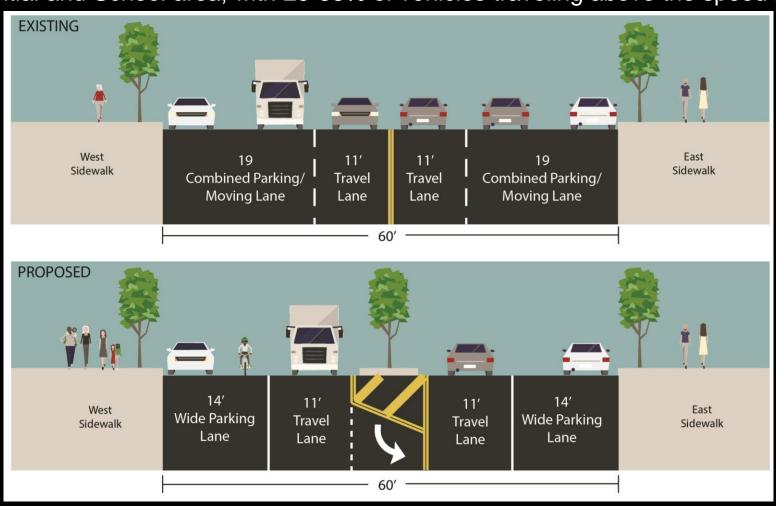
Proposal: Powell Ave to Bruckner Expy



Highest traffic volume area: keep same lane configuration, add parking lanes and extend left turn bay lengths over expressway bridges

Proposal: Bruckner Expy to Hart St

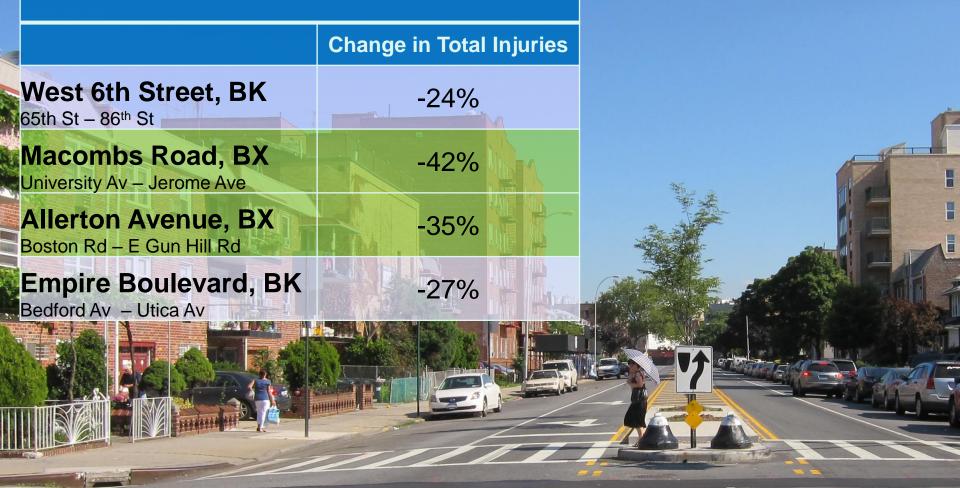
Residential and School area, with 29-38% of vehicles traveling above the speed limit



4 to 3 calming, with left turn bays, and wide parking lanes

Expected Injury Reduction

Three Year Before and After Crash Analysis on 4 to 3 Traffic Lane Conversions



Existing: at Lyvere/Zerega

- Uncontrolled pedestrian crossing
- Heavy turns on to Zerega Ave





Proposal: at Lyvere/Zerega

Add pedestrian crossing on east curb



Proposal: at Parker St



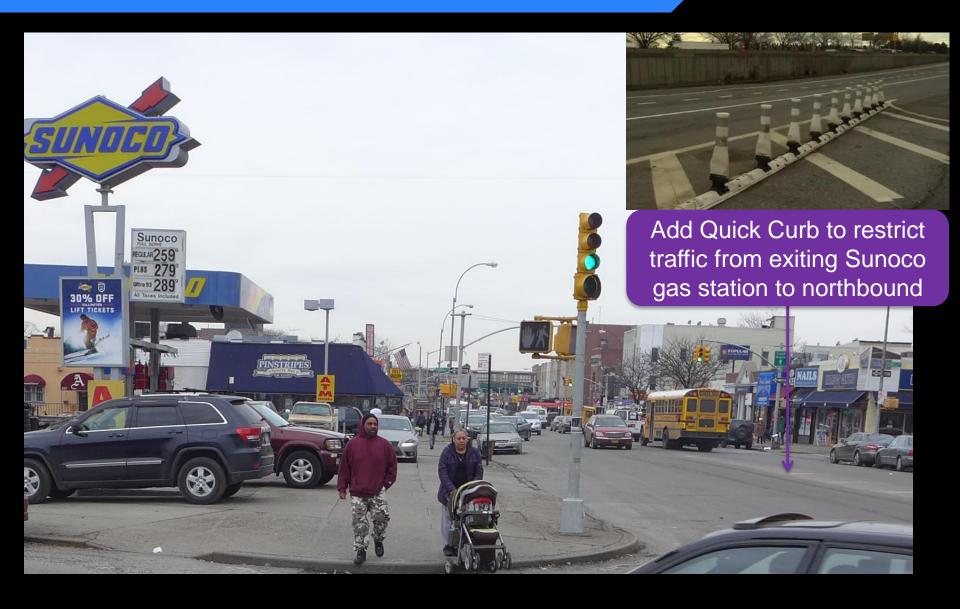
Proposal: at Starling Ave

- Existing
 - Wide, skewed crossing
 - Location of pedestrian fatality
- Proposal
 - Add concrete island in north crosswalk to provide refuge for pedestrians crossing the street
 - Add neckdown on northwest corner to align crossing
 - Remove three parking spots on northeast corner to ease turns

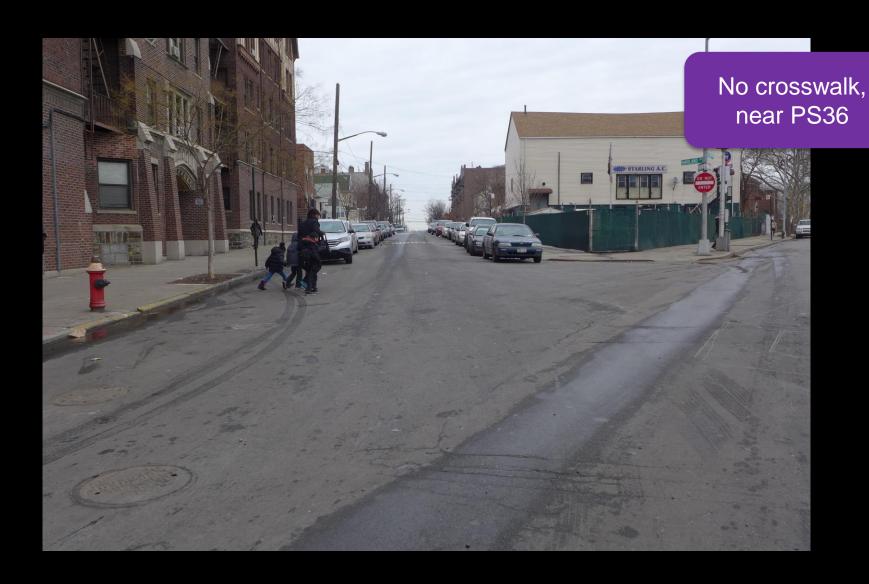




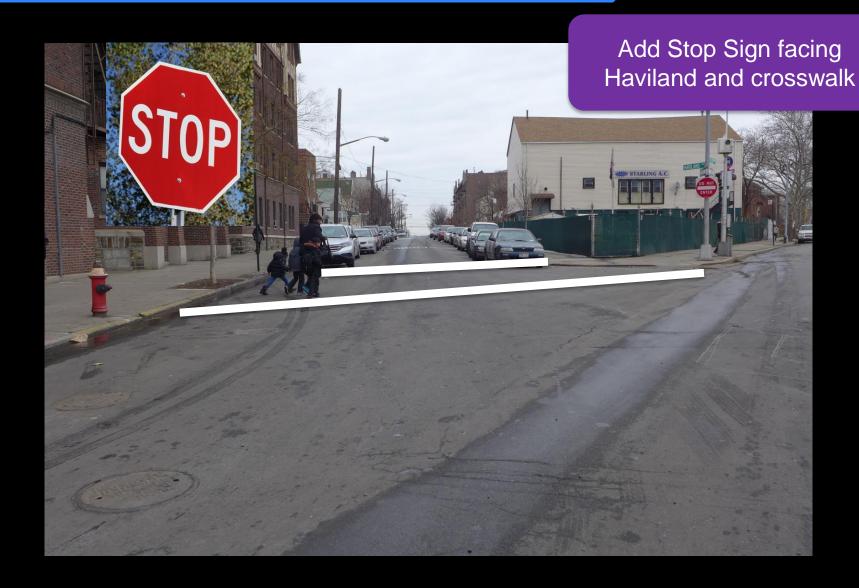
Proposal: at Cross Bronx Expy N



Existing: at Haviland Ave



Proposal: at Haviland Ave

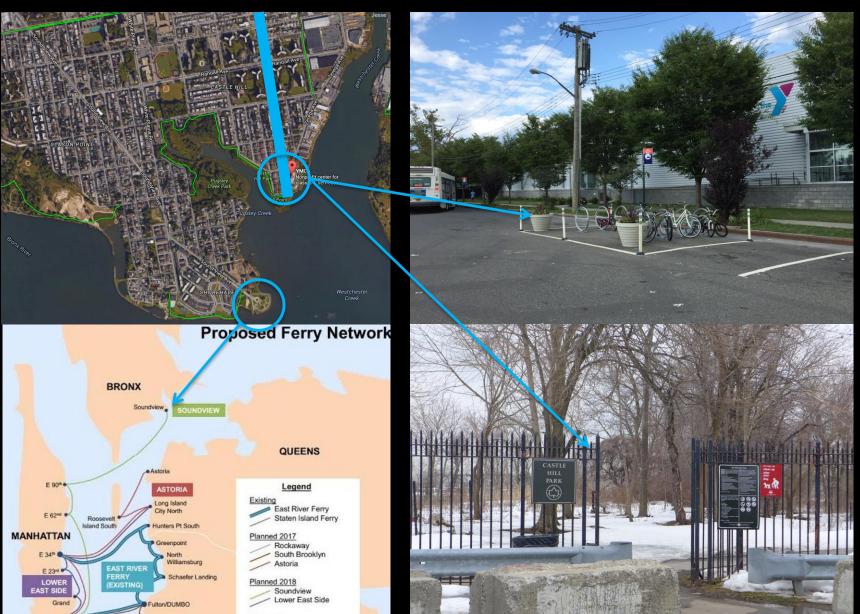


Proposal: Longer Left Turn Bays

- Extend left turn bay length approaching the Cross Bronx and Bruckner Expressways
- Organize traffic
- Safer, easier left turns



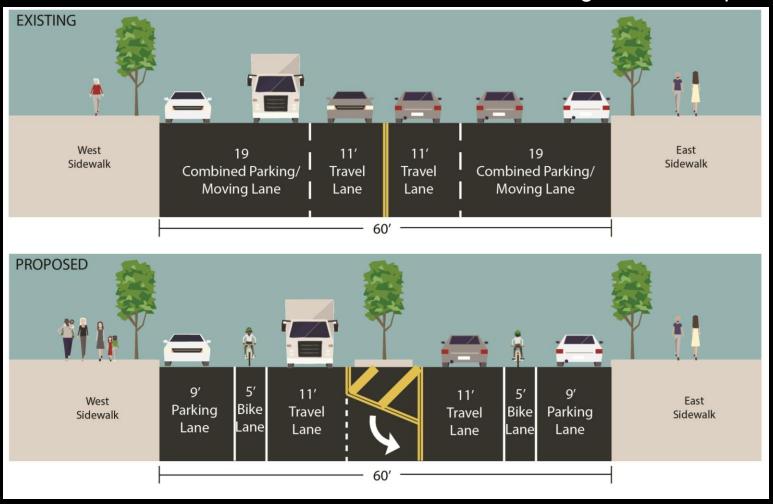
Improve connection to Parks





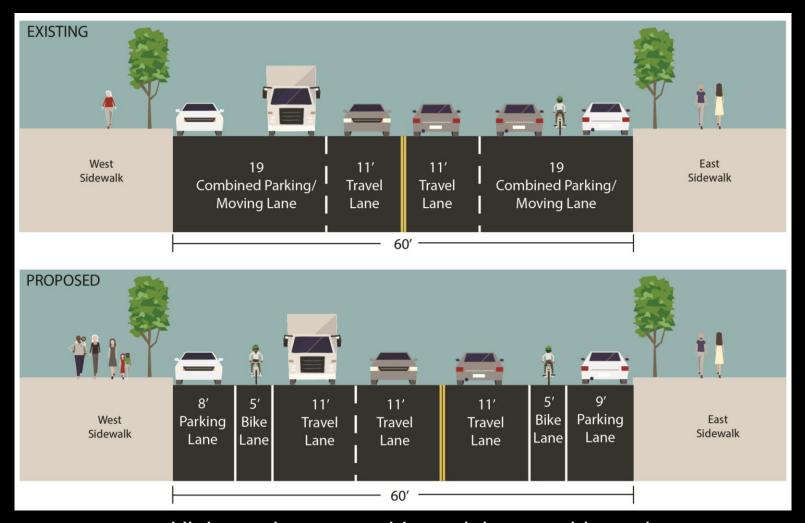
Proposal: E Tremont Ave to Westchester Ave

Residential and School area, with 25-48% of vehicles traveling above the speed limit



4 to 3 calming, with left turn bays, and bike lanes

Proposal: Westchester Ave to Powell Ave

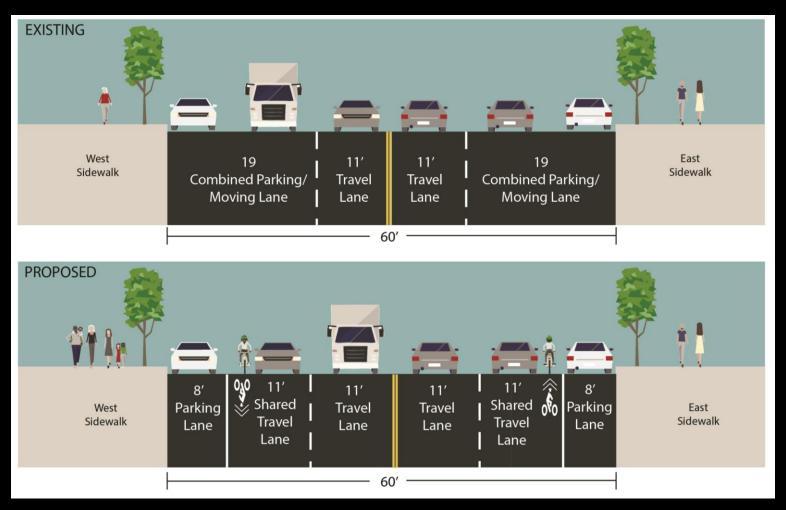


Higher volumes southbound than northbound:

1 travel lane northbound and 2 travel lanes southbound

And bike lanes

Proposal: Powell Ave to Bruckner Expy

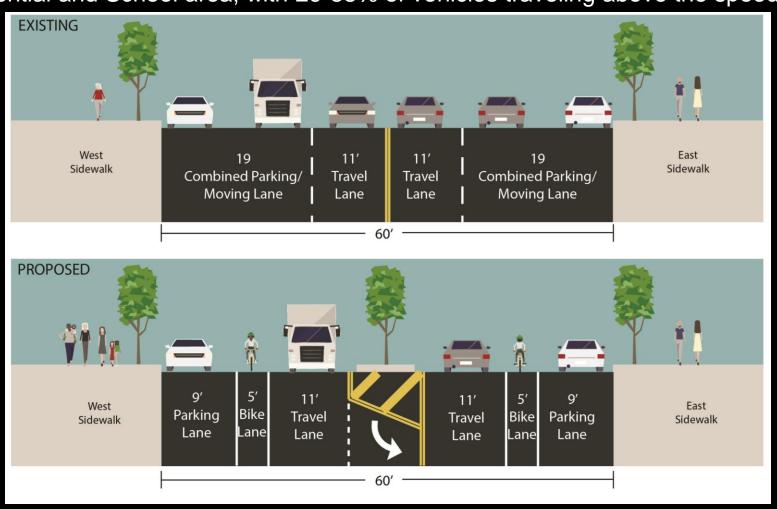


Highest traffic volume area: keep same lane configuration, add parking lanes and extend left turn bay lengths over expressway bridges

With "Sharrows" in the right lane

Proposal: Bruckner Expy to Hart St

Residential and School area, with 29-38% of vehicles traveling above the speed limit



4 to 3 calming, with left turn bays, and bike lanes



Three Year Before and After Crash Analysis on 4 to 3 Traffic Lane Conversions

	Change in Total Injuries
West 6th Street, BK 65th St – 86th St	-24%
Macombs Road, BX University Av – Jerome Ave	-42%
Allerton Avenue, BX Boston Rd – E Gun Hill Rd	-35%
Empire Boulevard, BK Bedford Av – Utica Av	-27%
E 222 nd St, BX Bronx Blvd – Baychester Ave	-27%

Adjacent Project Status

- Bridge over the Bruckner Expy completion Feb 2016
- Resurfacing (E Tremont Glover St): March/April 2016
- Neckdowns on Westchester Ave under construction at Castle Hill – 4 locations scheduled for completion July 2016
- Parkchester Slow Zone completed
- Metered parking study planned
 - Virgil PI Story Ave: both sides
 - Starling Ave Manning St: west side
- Loading Zones
 - Possible near grocery stores



Project Benefits

- Pedestrian safety island and neckdown allow for shorter, safer crossings
- Lane reduction lowers speeds and calms traffic outside heaviest traffic areas
- 32 new left turn bays, and longer left turn bays approaching Cross Bronx and Bruckner expressways better organize traffic
- Bicycle lanes connect neighborhoods to waterfront, discourage sidewalk riding and organize traffic flow



Existing: Castle Hill Ave & St. Raymonds Ave



Proposed Condition: Bronxwood Ave

Questions?

