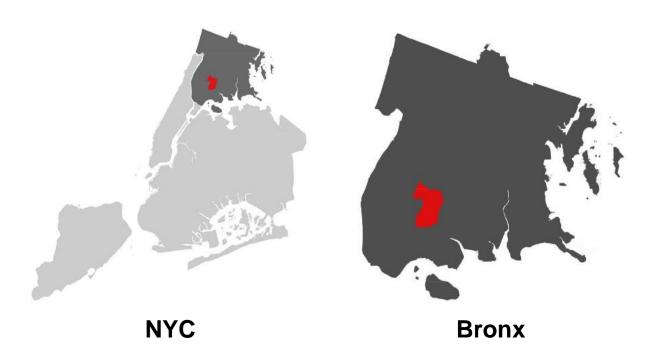


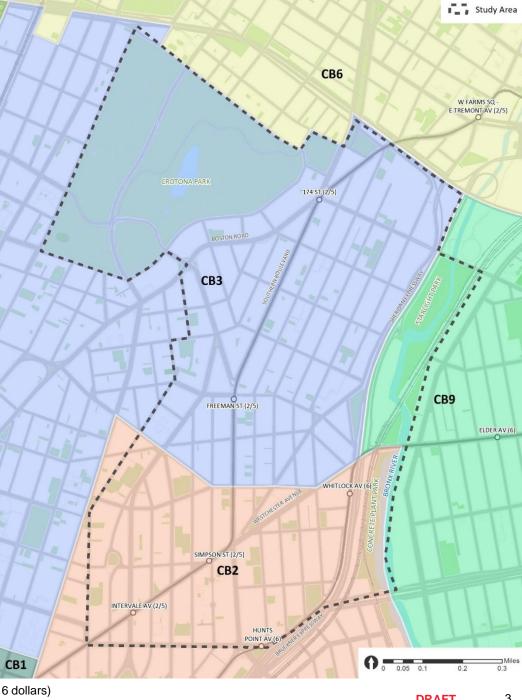
EXISTING CONDITIONS



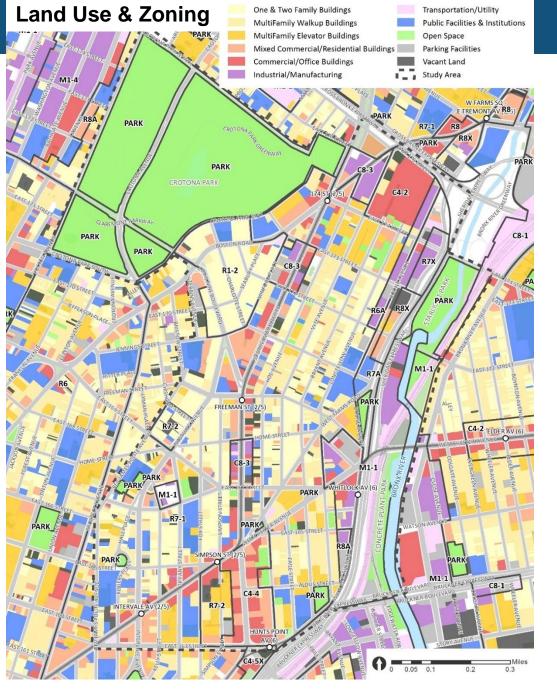
Background

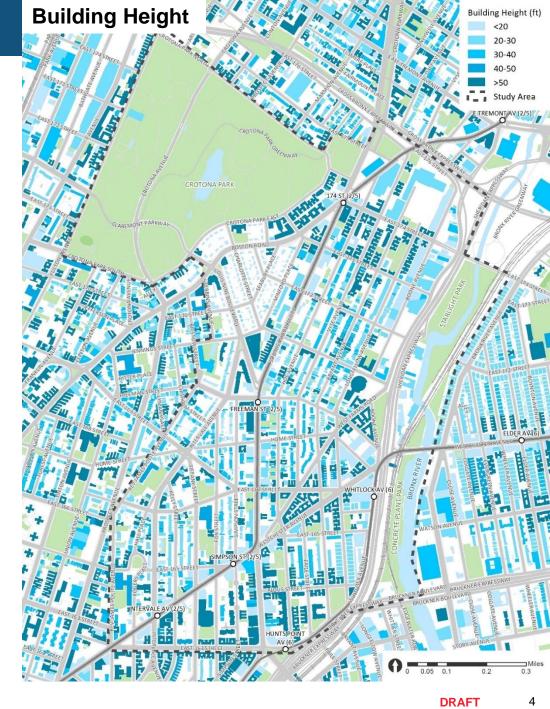
- 3 Community Districts (CB3, CB2, and CB9)
- 44,312 Residents
- 1.07 sq. mi.
- 41,413 people per sq. mi. (Bronx: 34,168; NYC: 28,173)
- Predominantly Hispanic (70%) or Black/African American Non-Hispanic (26%)
- Median Household Income: \$25,213* (Bronx: \$35,302; NYC: \$55,191)





Land Use





Major Transportation & Open Space Resources

Transit Access

- 3 elevated subway lines and 6 subway stations (2 with elevators and 2 with escalators)
- 10 bus routes including a new BX6 Select Service Bus and 95 bus stops
- 3 major transit hubs: Simpson St, Hunts Point Ave, and West Farms Sq (just outside study area)
- 21 bus stops under the els

Open Space and Bicycle Network

- Crotona Park (127.5 acres; "Central Park" of the South Bronx; 3.3-acre lake; largest pool in the Bronx; 20 tennis courts)
- Bronx River parks (Starlight Park + Concrete Plant Park)
- 1.7 miles greenways; 4 miles standard bicycle lanes; 0.6 mile shared lane; 1.7 miles signed routes

Vision Zero

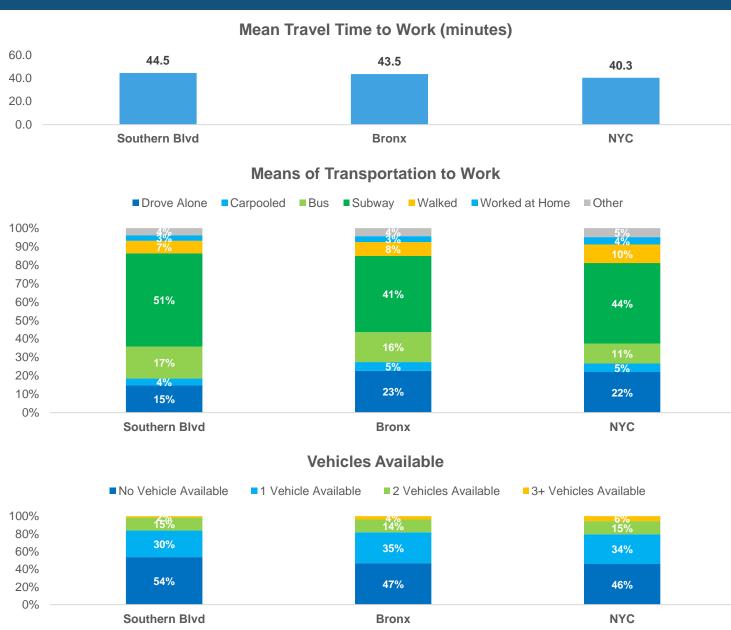
- 1 Vision Zero Priority Intersection (Southern Blvd @ Boston Rd @ 174 St)
- 2 Vision Zero Priority Corridors (Crotona Ave + Southern Blvd)

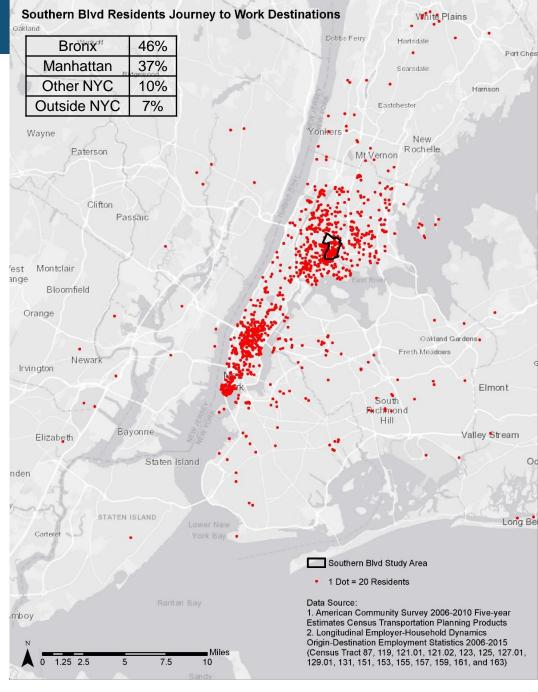
Major Future Improvement

- Sheridan Expressway "Boulevardization": Sheridan Expressway is planned to be transformed into a neighborhood boulevard to better connect the neighborhood and the Bronx River waterfront with three planned crossings
- Penn Station Access: using existing Amtrak Hellgate Line to open a new Metro-North Railroad link between Penn Station and New Haven Line with 4 new stations in the Bronx including Hunts Point station



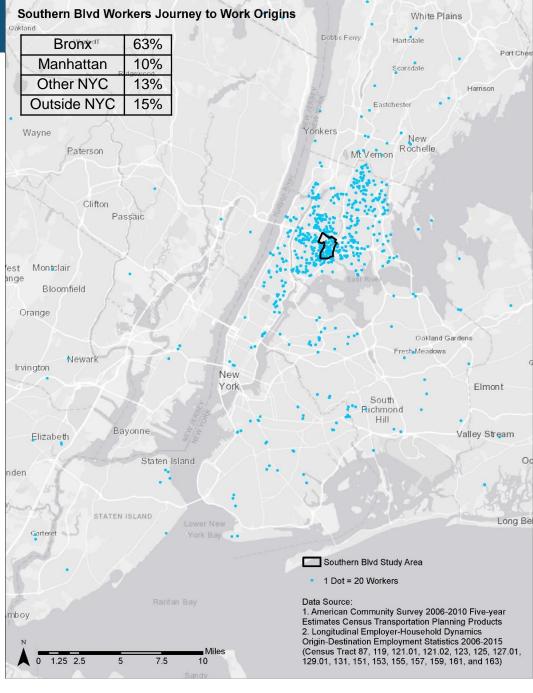
Commuting Characteristics (Residents)





Commuting Characteristics (Workers)



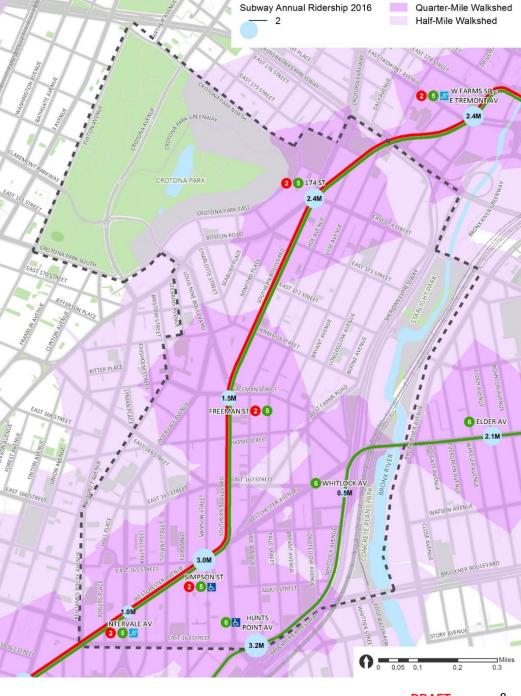


Subway

- 2/5 Train
 - Intervale Ave (Escalator)
 - Simpson St (Elevator)
 - Freeman St
 - 174 St

- 6 Train
 - Hunts Point Ave (Elevator)
 - Whitlock Ave

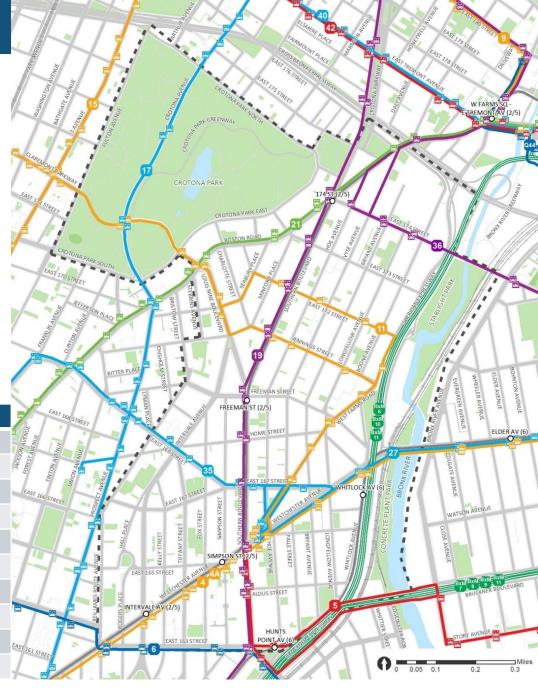
Subway Station	Annual Ridership (2012)	Annual Ridership (2016)	% Change (2011-2016)
Intervale Ave (2/5)	937,280	1,061,240	13.2%
Simpson St (2/5)	2,810,789	3,046,838	8.4%
Freeman St (2/5)	1,393,186	1,588,448	14.0%
174 St (2/5)	2,152,009	2,411,413	12.1%
Hunts Point Ave (6)	3,204,779	3,269,585	2.0%
Whitlock Ave (6)	524,988	571,352	8.8%
Bronx	145,029,400	153,079,012	5.6%
System Total	1,654,582,265	1,756,814,800	6.2%



Bus

- Bx4/4A (The Hub ⇔ Westchester Square)
- Bx5 (Pelham Bay Park ⇔ Hunts Point)
- Bx6 Local/SBS (Hunts Point, Bronx ⇔ Washington Heights, Manhattan)
- Bx11 (Longwood, Bronx ⇔ GW Bridge Bus Station, Manhattan)
- Bx17 (Mott Haven ⇔ Fordham Plaza)
- Bx19 (NY Botanical Garden, Bronx ⇔ Riverbank State Park, Manhattan)
- Bx21 (Westchester Square ⇔ Mott Haven)
- Bx27 (Clasons Point ⇔ Soundview or Hunts Point)
- Bx35 (Hunts Point, Bronx ⇔ Washington Heights, Manhattan)
- Bx36 Local/Limited (Soundview, Bronx ⇔ Washington Heights, Manhattan)

Rank	Bus Stop	Daily Boarding + Alighting (2015)
1	HUNTS POINT AV/E 163 ST (BX6)	4,103
2	W FARMS RD/WESTCHESTER AV (BX35)	2,734
3	E 163 ST/HOE AV (BX5)	2,674
4	W FARMS RD/HOE AV (BX27)	2,672
5	SOUTHERN BL/E 174 ST (BX19)	1,982
6	HUNTS POINT AV/SOUTHERN BL (BX5)	1,976
7	E 174 ST/BRYANT AV (BX36)	1,974
8	SOUTHERN BL/HUNTS POINT AV (BX19)	1,787
9	SOUTHERN BL/E 163 ST (BX19)	1,685
10	W FARMS RD/WESTCHESTER AV (BX27)	1,667



Transit Hub

Simpson St Transit Hub

• Subway: 2/5 Train

• Bus Terminal: Bx5, Bx11, Bx27, Bx35

• Bus Stop: Bx4/4A, Bx19

Hunts Point Ave Transit Hub

• Subway: 6 Train

• Bus Stop: Bx5, Bx6 (Local/SBS), Bx19

• Rail: future Metro North station

West Farms Sq Transit Hub (just outside of study area)

• Subway: 2/5 Train

• Bus Terminal: Bx9

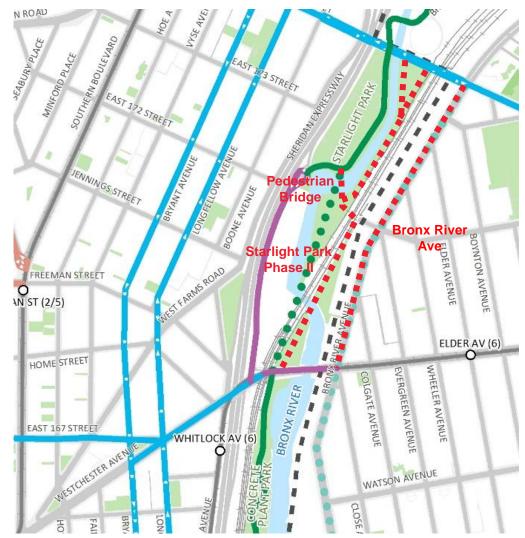
Bus Stop: Bx21, Bx36 (Local/Limited), Bx40, Bx42, Q44 (SBS)

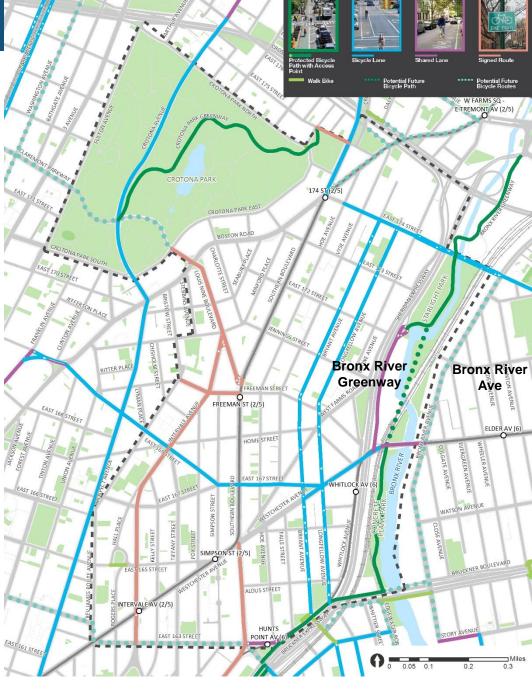


Bicycle

Future / New Bike Connections

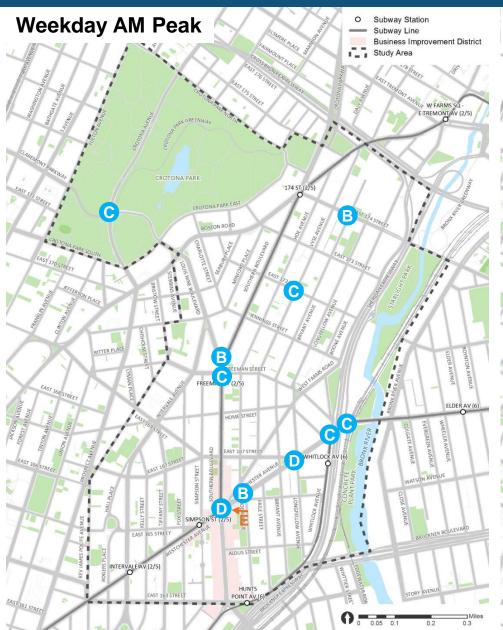
- Starlight Park / Bronx River Greenway
- Bronx River Ave between East 174th St and Westchester Ave

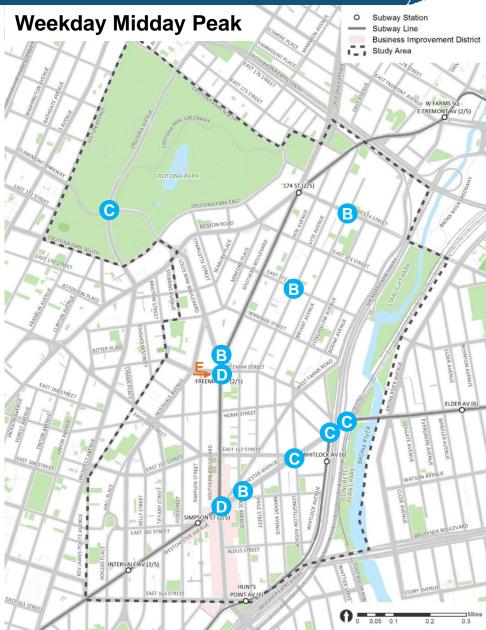




Traffic LOS

Level of Service	Average Control Delay (sec/veh)	General Description (Signalized Intersections)
Α	≤10	Free Flow
В	>10 – 20	Stable Flow (slight delays)
С	>20 – 35	Stable flow (acceptable delays)
D	>35 – 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
Е	>55 – 80	Unstable flow (intolerable delay)
F	>80	Forced flow (jammed)

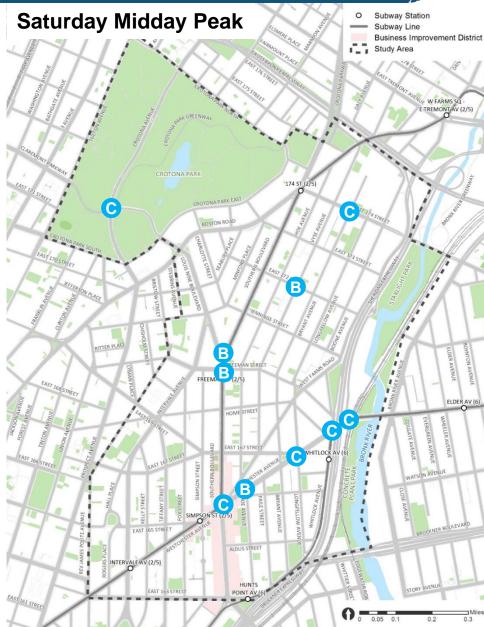




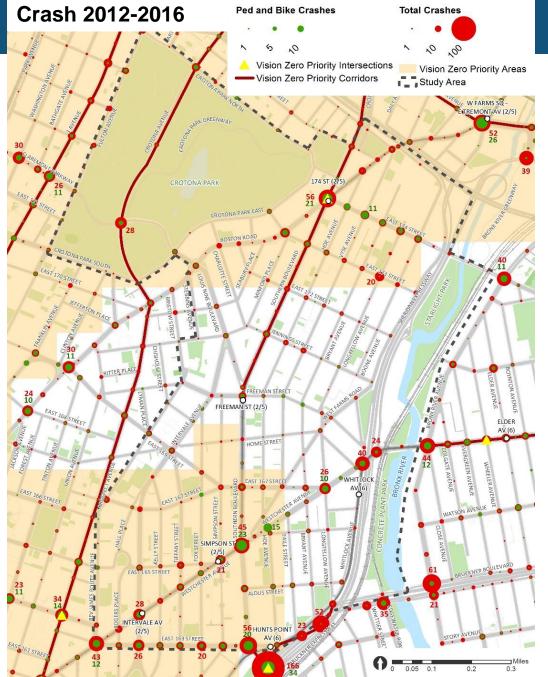
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Crash & KSI

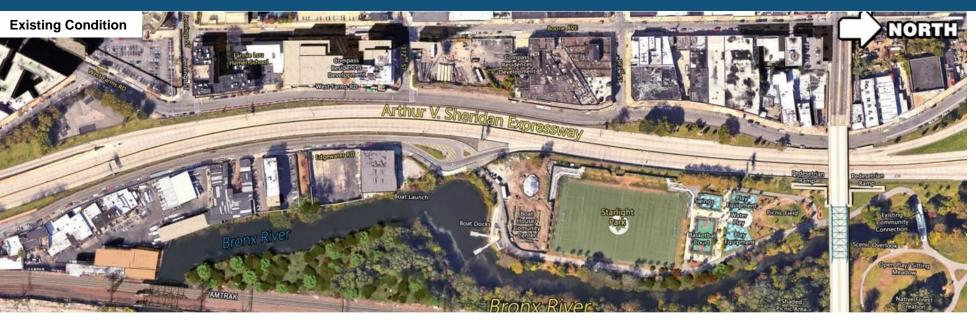


*KSI = Number of Killed or Severely Injured persons in crashes

**DOT uses pedestrian KSI to identify Vision Zero Priority Intersections, Corridors and Areas



NYSDOT Arthur Sheridan Enhancement Project





- Introduce three signalized at-grade intersections for pedestrian and bicycle crossings
- Convert Edgewater Rd. to a one-way street, add a twoway protected bicycle lane, and provide access to Southbound Sheridan
- Convert West Farms Road to one-way southbound between 173rd St and Jennings St
- Construct a pedestrian bridge over the Bronx River within Starlight Park
- Provide two lane exit ramp at Westchester Ave from Southbound Sheridan
- Improve landscaping, drainage, traffic signals, pavement and lighting on the Sheridan
- Create a public space at the entrance to Starlight Park
- Provide parking along northbound Sheridan

Penn Station Access

- Penn Station Access will create a new Metro-North Railroad link directly into Penn Station, providing critical system resiliency to protect service for more than 275,000 daily customers. The project will build four new Metro-North stations in the Bronx. This additional service will:
 - Substantially reduce travel times to and from Manhattan's West Side
 - Introduce convenient, direct rail service to communities underserved by mass transit
 - Support economic development in the East Bronx
 - Improve mobility and regional connectivity



ISSUES AND OPPORTUNITIES



Issues & Opportunities

Under the Els

Southern Blvd BID

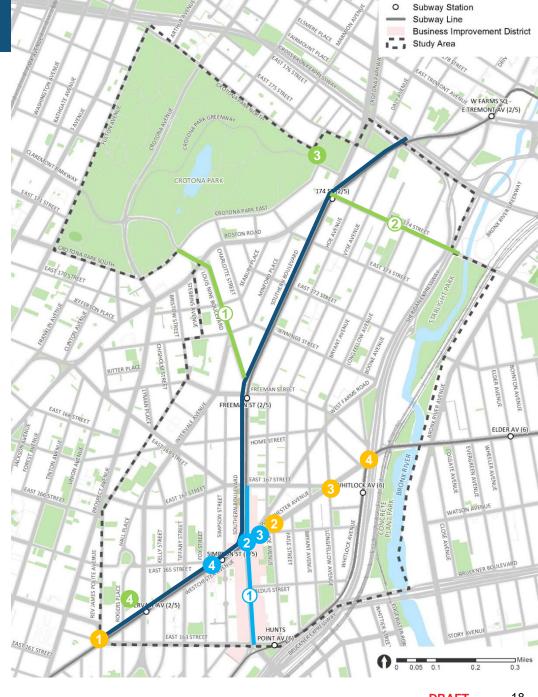
- 1) Pedestrian Retail Corridor Improvement
- 2) Major Intersection Safety Improvement
- 3) Reimagine Bus Terminal
- 4) Simpson St Triangle Pedestrian Plaza

Parks & Open Space

- 1) Louis Nine Blvd
 Connection
- 2) 174 St Connection
- 3) Crotona Park East
- 4) Horseshoe Park Triangle

Westchester Ave Corridor

- 1) 163 St / Rev James A Polite Ave
- 2) Hoe Ave
- 3) Longfellow Ave / 167 St
- 4) Whitlock Ave



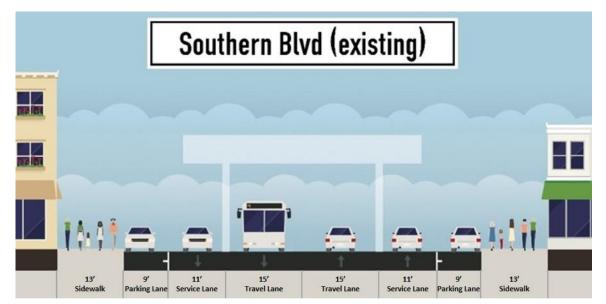




Background

- Height varies dramatically
- 1 travel lane + 1 service lane + 1 parking lane
- Fewer than 500 vehicles/hour/direction during the peak period along Southern Blvd and Westchester Ave in 2017
- Yellow columns ~ bus stops









Issues

- Pedestrians are forced to wait, enter and leave the bus in the middle of the street
- Turning vehicles weave through the bus stop to make turns or get around a bus
- Columns block cars' visibility of pedestrians
- Yellow columns serve as bus stops but no bus stop signs at some locations







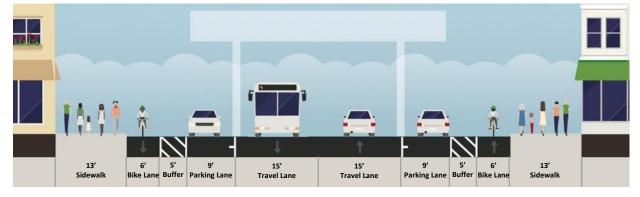


Opportunities

- Close outer lanes or add pedestrian island at the bus stops (DOT Bus Stops under the Els projects)
- Pedestrian safety improvement throughout the corridor
- Install street furniture at the bus stops under the els
- Potential bike lanes (close the current service lanes)



Bike Lanes under the Els



21

DOT Bus Stops Under the Els Projects

- 3 completed
 - Southern Blvd @ Freeman St (Southbound only)
 - Westchester Ave @ Simpson St (both directions)
- 1 underway
 - Southern Blvd @ Boston Rd @ 174 St (construction will begin after DDC sewer and water main capital reconstruction)
- 17 potential
 - 17 more similar bus stops within the study area (possibly be funded by NDF)

Example of Bus Islands with Painted Pedestrian Space for Bus Stops under the Els at White Plains Rd @ Burke Ave







Southern Blvd BID





Business Improvement District (BID)

 Community partners, such as BIDs or civic organizations, can help maintain and program the public open spaces that the City plans and creates with input from the local communities

Opportunities in Southern Blvd BID

- Pedestrian Retail Corridor Improvement
- Major Intersection Safety Improvement
- Reimagine Bus Terminal
- Simpson St Triangle Pedestrian Plaza



Southern Blvd BID – Pedestrian Retail Corridor Improvement





Background

- Northern portion of Southern Blvd BID
- Under the el from 167 St to Westchester Ave
- Large vacant lot and parking lot

Issues

Inactive pedestrian retail space

- More attractive pedestrian retail space under the el (wider sidewalks, potential bike lanes, etc.)
- Potential to redesign the entire bus terminal with surrounding buildings and parks

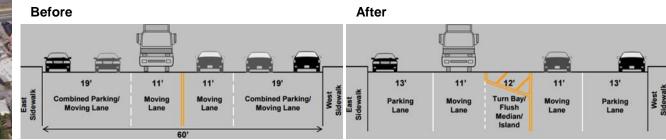
Southern Blvd BID – Pedestrian Retail Corridor Improvement





Background

- Southern portion of Southern Blvd BID
- No el between Westchester Ave and 163 St
- Signed bike route
- DOT completed project in 2010





Issues

 Wide street with lots of double parking, overtaking through striped median, jaywalking, etc.

- Add standard bike lane by taking 5' of the 13' parking lane
- Landscaped median
- Pedestrian island on south side of the intersection at Aldus St
- Street furniture

Southern Blvd BID – Major Intersection Safety Improvement





Background

- Transit Hub
 - Simpson St subway station (2/5 train)
 - Bus Terminal (Bx11/Bx27/Bx35)
 - Bus Stops (Bx4/Bx4A/Bx5/Bx19)
- Southern Blvd BID
- 45 crashes between 2012 and 2016
- 51% were pedestrian and bike crashes (21 pedestrian crashes and 2 bike crashes)
- Total KSI was 7; pedestrian KSI was 2

Issues

- Columns in the middle of the intersection
- 85 feet long pedestrian crossing
- Westbound merging from two lanes to one lane

- Curb extensions to shorten the long pedestrian crossings
- Markings and signs to guide the vehicles

Southern Blvd BID – Reimagine Bus Terminal





Background

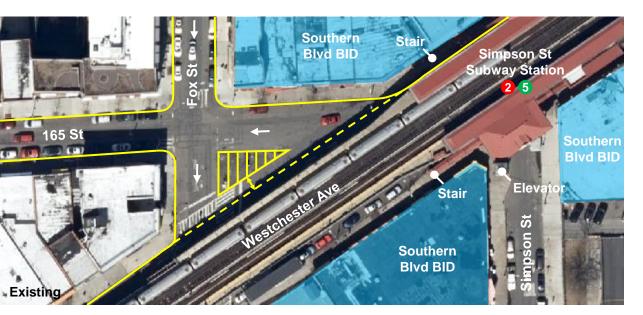
- Bus Terminal (Bx11/Bx27/Bx35)
- Bus Stop (Bx4/Bx4A)

Issues

Buses inch out and turn left at the unsignalized intersection

- Option 1: Add a traffic signal coordinated with the signal timing of Westchester Ave @ Southern Blvd
- Option 2: Reverse the loop direction
- Option 3: Signal timing modifications for the signals at Westchester Ave @ Southern Blvd and Westchester Ave @ Hoe Ave to create gaps for buses turning left
- Option 4: Redesign the entire bus terminal with the surrounding buildings and parks

Southern Blvd BID – Simpson St Triangle Pedestrian Plaza





Background

- Southern Blvd BID
- Close to Simpson St subway station
- Traffic volume of 165 St between Westchester Ave and Fox St is low (max 169 vehicles/hour in 2017)

Issues

Large empty space

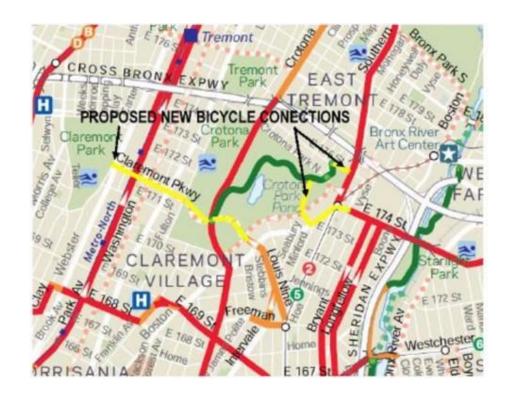
Opportunities

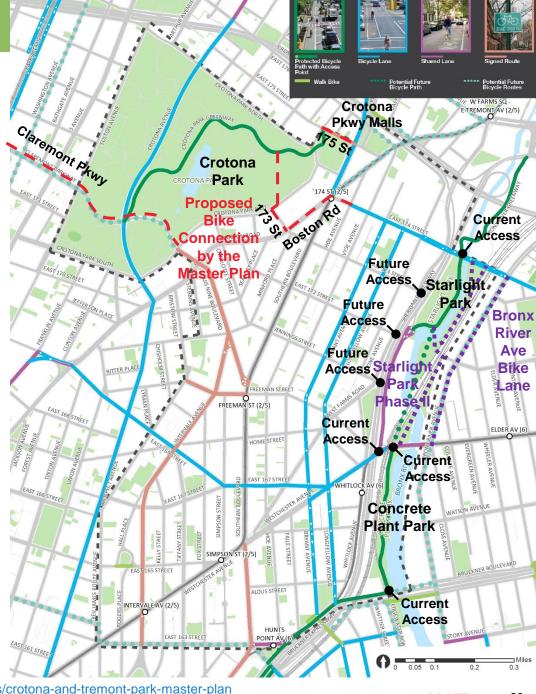
 Close 165 St between Westchester Ave and Fox St to create a pedestrian plaza



Parks & Open Space

- Major parks and open space resources are Crotona Park and Bronx River parks (Starlight Park and Concrete Plant Park)
- Future additional three access points to Bronx River parks through Sheridan Enhancement Project
- Future better connection between Starlight Park and Concrete Plant Park through Starlight Park Phase II
- Crotona & Tremont Park Master Plan 2015 proposed new bike connections





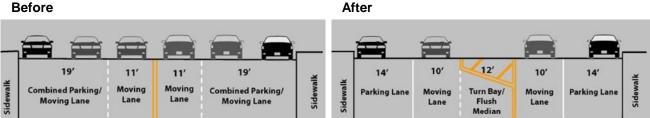
Parks & Open Space – Louis Nine Blvd Connection





Background

- Better sense of entrance to Crotona Park compared to 174 St subway station despite longer distance
- Signed bike route
- Fewer than 400 vehicles/hour/direction during the peak period in 2017
- DOT completed project in 2012



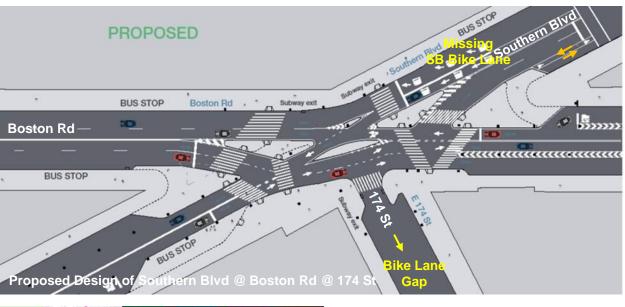
- New DOT project: Louis Nine Blvd Safety Improvements (NNLOUISNIN)
 - Project Scope (In-Progress); Construction Registration 2025

Issues

60 feet wide underutilized street

- Add standard bike lane by taking 5' of the 14' parking lane
- Raised median

Parks & Open Space – 174 St Connection







Background

- Important connection between Crotona Park and Starlight Park
- Southern Blvd @ Boston Rd @ 174 St is a Vision Zero Priority Intersection and had a DOT project in 2015 (construction will begin after DDC sewer and water main capital reconstruction)

Issues

- No wayfinding for parks
- Bike lane gap on 174 St
- Missing southbound bike lane on Southern Blvd possibly due to the bus stop
- High pedestrian crashes and KSI

- Wayfinding signage for parks
- Add bike lane on 174 St between Southern Blvd and Hoe Ave
- Have two-way bike lanes on the east side of Southern Blvd and better guide the cyclists to connect to the bike network
- Pedestrian safety improvements along the 174 St between Southern Blvd and Starlight Park

Parks & Open Space – Crotona Park East





Background

- Crotona Park E between Crotona Park N and Crotona Park E is not a mapped Street
- Traffic volume varies a lot (max 615 vehicles/hour in 2017)
- Friends of Crotona Park* has suggested closing the segment to better connect Hylan Park and Crotona Park

Issues

- Hylan Park is separated from Crotona Park by the unmapped segment
- No crosswalk for greenway
- No stop sign for Crotona Park E @ Crotona Park N eastbound
- Stop sign for Greenway on Hylan Park side but not Crotona Park

- Option 1: Close the street (further traffic study needed to see how it would affect traffic flow around the park)
- Option 2: Not to close the street but better connect the greenways (stop sign, raised crosswalk, different pavement, etc.)
- Option 3: Close the street only on weekends

Parks & Open Space – Horseshoe Park Triangle



Background

- Horseshoe Park with step street
- Schools around the park

Issues

Large empty striped space

Opportunities

School maintained public art or murals



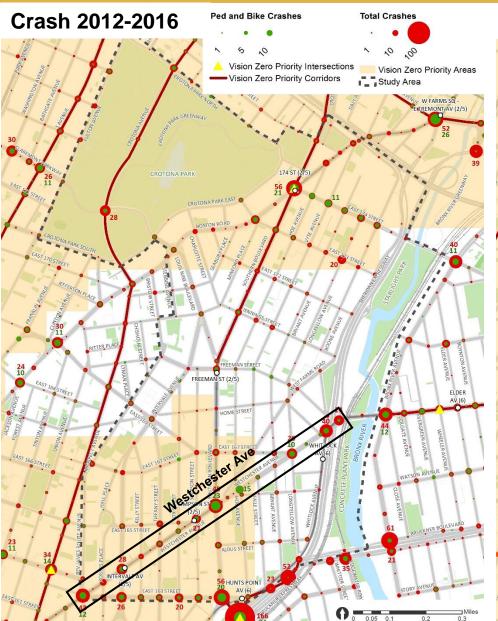


Westchester Ave Corridor

- Under the el from 163 St to Southern Blvd
- 70 ft wide street without el from Southern Blvd to Whitlock Ave
- High crashes along Westchester Ave
- High pedestrian crashes at the intersection of Westchester Ave and Southern Blvd

Westchester Ave (163 St to Whitlock Ave)

Crashes	2012-2016
Total	323
Pedestrian	89
Bicycle	24
KSI*	2012-2016
Total	19
Pedestrian	6
Bicycle	3

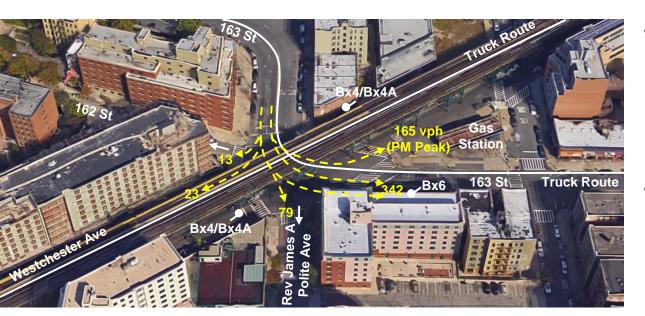




^{*}KSI = Number of Killed or Severely Injured persons in crashes

^{**}DOT uses pedestrian KSI to identify Vision Zero Priority Intersections, Corridors and Areas

Westchester Ave Corridor – 163 St / Rev James A Polite Ave





Background

- Westchester Ave and 163 St are truck routes
- 43 crashes between 2012 and 2016
- 6 collisions with fixed object, structure or barriers

Issues

- Columns in the middle of the intersection (unclear which side of columns to drive on)
- Downhill from north may cause speeding

- Lane assignments for southbound (exclusive left turn)
- Markings to guide the vehicles to avoid columns
- Under the Els treatment around the Bx4/Bx4A bus stops
- Curb extension of the gas station corner (ban the sharp right) turn from 163 St to Westchester Ave which had only ~10 vehicles/hour in 2016)

Westchester Ave Corridor – Hoe Ave



Background

- 17 crashes between 2012 and 2016
- 83% were pedestrian crashes
- 50% happened when the motor vehicles were making left turns
- Recently installed left turn treatments
- Bx5 (articulated) uses the slip to turn around

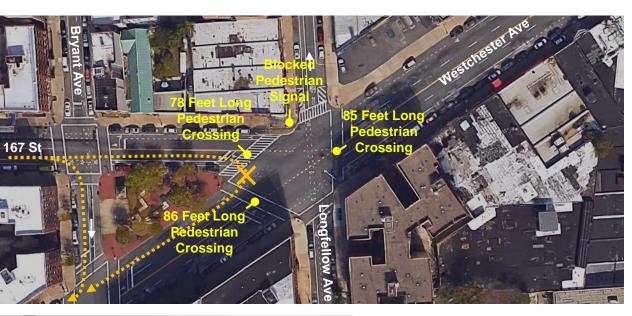
Issues

70-75 feet long pedestrian crossing

Opportunities

 Curb extensions on Westchester Ave to shorten the long pedestrian crossings

Westchester Ave Corridor – Longfellow Ave / 167 St







Background

- 26 crashes between 2012 and 2016
- 31% were pedestrian crashes
- 54% of all crashes were motor vehicle crashes, within which 43% were rear end collisions

Issues

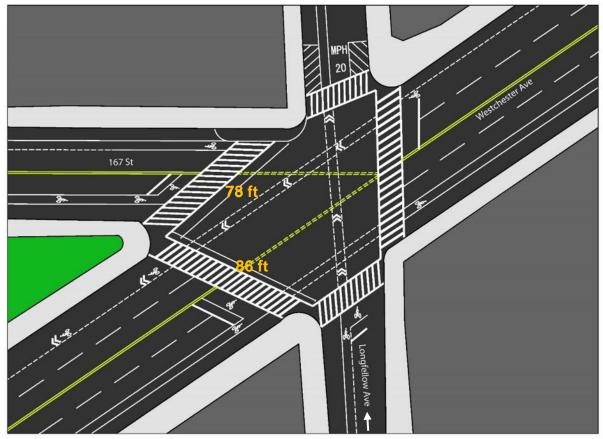
- 78-86 feet long pedestrian crossing
- Pedestrian signal blocked by streetlight pole

- Ban the right turn from 167 St to Westchester Ave (max 4 vehicles/hour in 2017)
- Curb extensions to shorten the long pedestrian crossings
- Adjust the position of pedestrian signal

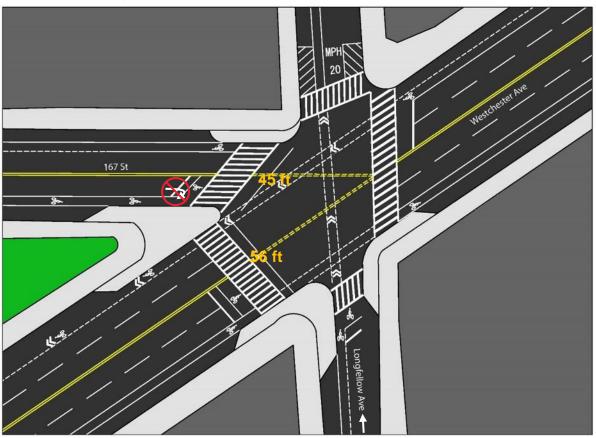
Westchester Ave Corridor – Longfellow Ave / 167 St



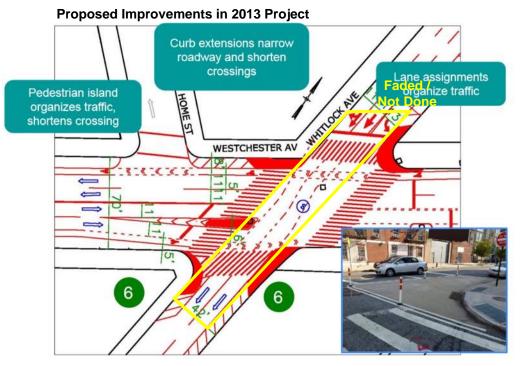
Existing



Opportunity



Westchester Ave Corridor – Whitlock Ave





Background

- 40 crashes between 2012 and 2016
- 5 bicycle crashes and 4 pedestrian crashes
- 12 crashes were either overtaking or rear end
- DOT completed project in 2013
- New DOT project: Westchester Avenue and Whitlock Avenue Pedestrian Safety Improvements (NN-XWHIT)
 - Project Scope (In-Progress); construction registration 2020

Issues

- Potential speeding issue
- Zigzagging to avoid the column in the middle of intersection

- Markings to guide vehicles on Whitlock Ave
- Speed limit signs
- Enforcement

Westchester Ave Corridor – Whitlock Ave (Freeman St / Boone Ave)





Background

- Sheridan exit ramp, Boone Ave, and Freeman St merge into Whitlock Ave
- No stop sign on exit ramp
- Stop signs on both Boone Ave and Freeman St

Issues

- Large intersection without crosswalks
- Confusing traffic flows for the merging

- Add crosswalks
- Curb extension to narrow down the intersection and regulate the traffic flows