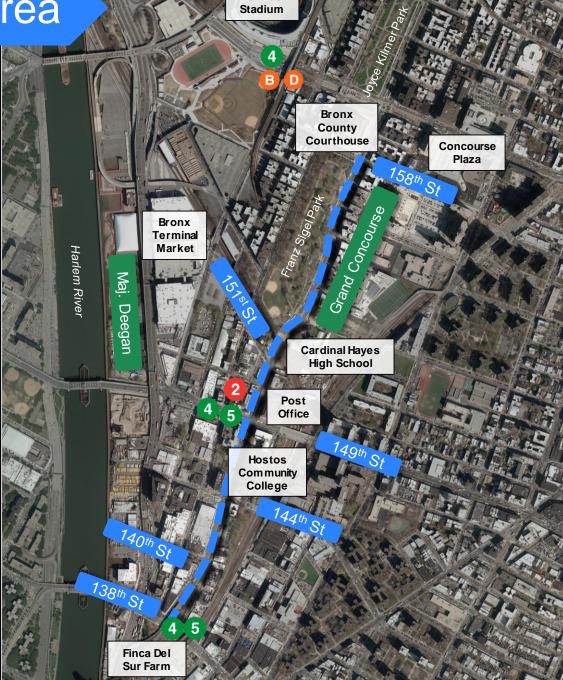


Project Area





Yankee

Timeline: Grand Concourse Redesign

Capital Projects

- 161st St to 166th St completed
- 166th St to 171st St under construction
- 171st St to 175th St in planning

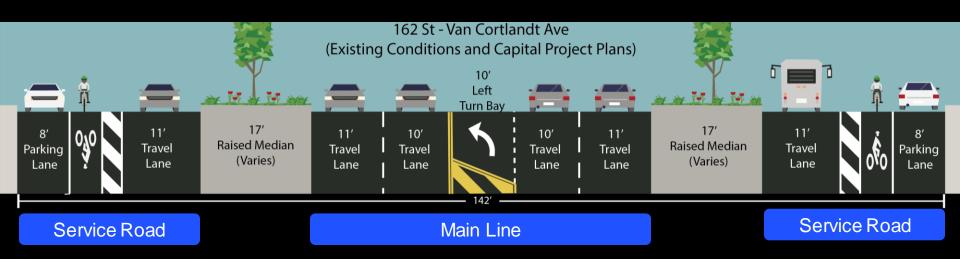
Safety Projects

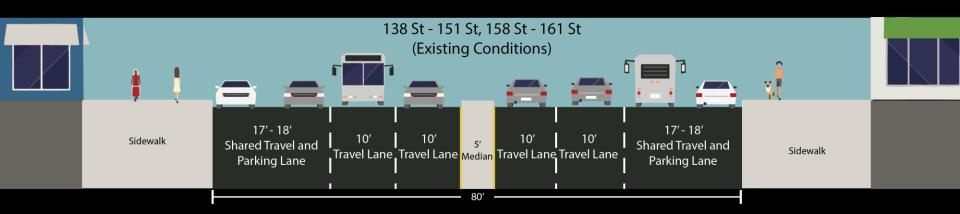
- 2009 Safe routes to school pedestrian improvements
- 2009 Service Road Bike Lanes b/n 166th St and Mosholu Parkway
- 2013 204th St to Mosholu Pkwy
- 2014 Grand Concourse Arterial Slow Zone
 (25 mph)
- 2015 Intersection improvements at 165th St
- Section south of 158th St is the only area that has not yet been redesigned





Grand Concourse Geometry





Existing Issues: Injuries



Killed or Severely Injured (KSI) 2010-2014

Total Injuries 2010-2014

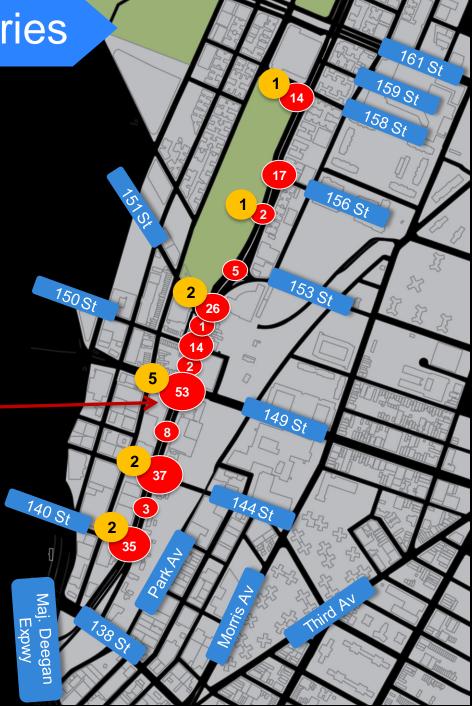
149th St is a Vision Zero priority intersection

13 Pedestrian Injuries (2 Fatalities) (2010-2014)

Grand Concourse - 138 St to 158 St, BX

Injury Summary, 2010-2014 (5 Years)

	Total	Severe	Fatalities	KSI
	Injuries	Injuries		
Pedestrian	24	3	2	5
Bicyclist	10	1	0	1
Motor Vehicle Occupant	182	7	0	7
Total	216	11	2	13



Existing Issues: Speeding

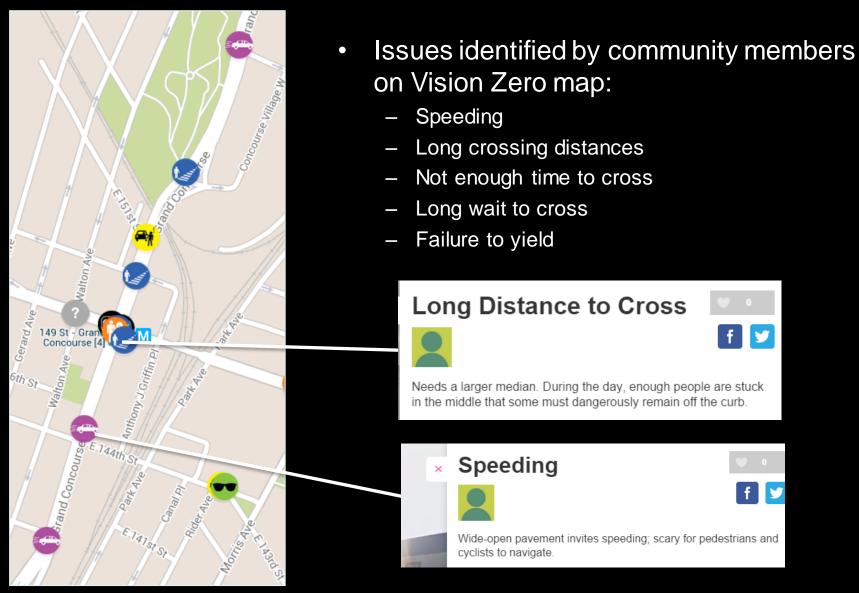
- Approximately 1,100-1,200 vehicles in the peak hour in the peak direction
- North of 161st St, this volume is accommodated by 2 lanes with left turn bays
- Excess lanes and roadway space south of 161st St encourages speeding

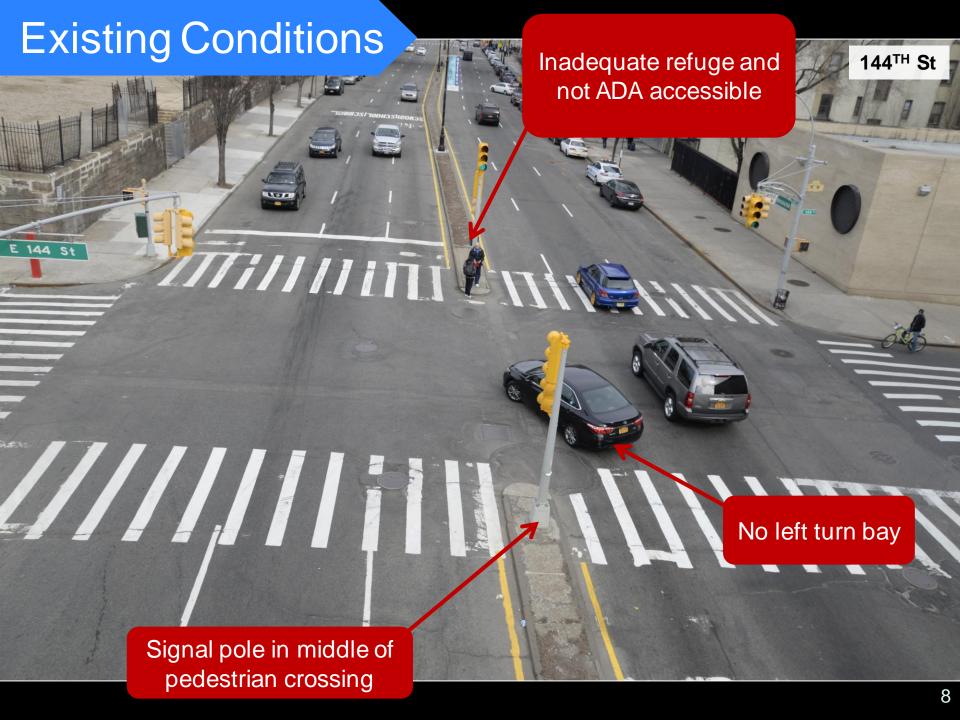
Street		Percent of Vehicles Speeding	85 th Percentile Speed
153 St – 156 St	Northbound	82%	40 mph
	Southbound	53%	32 mph
144 St – 149 St	Northbound	79%	34 mph
	Southbound	72%	37 mph

^{*}Study conducted December 30, 2015



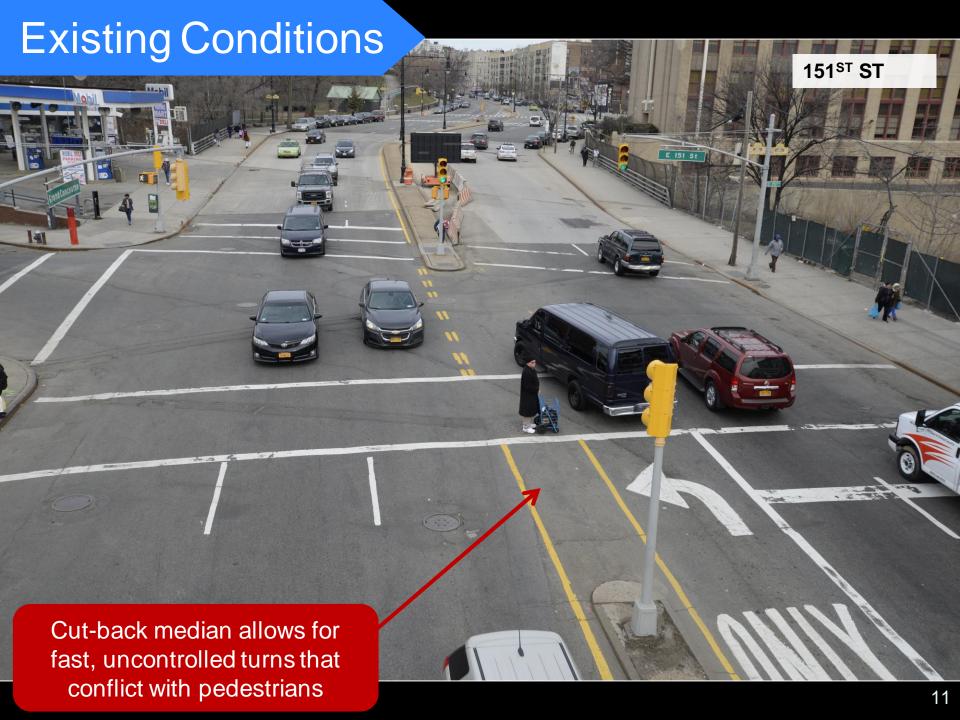
Existing Issues: Community Concerns

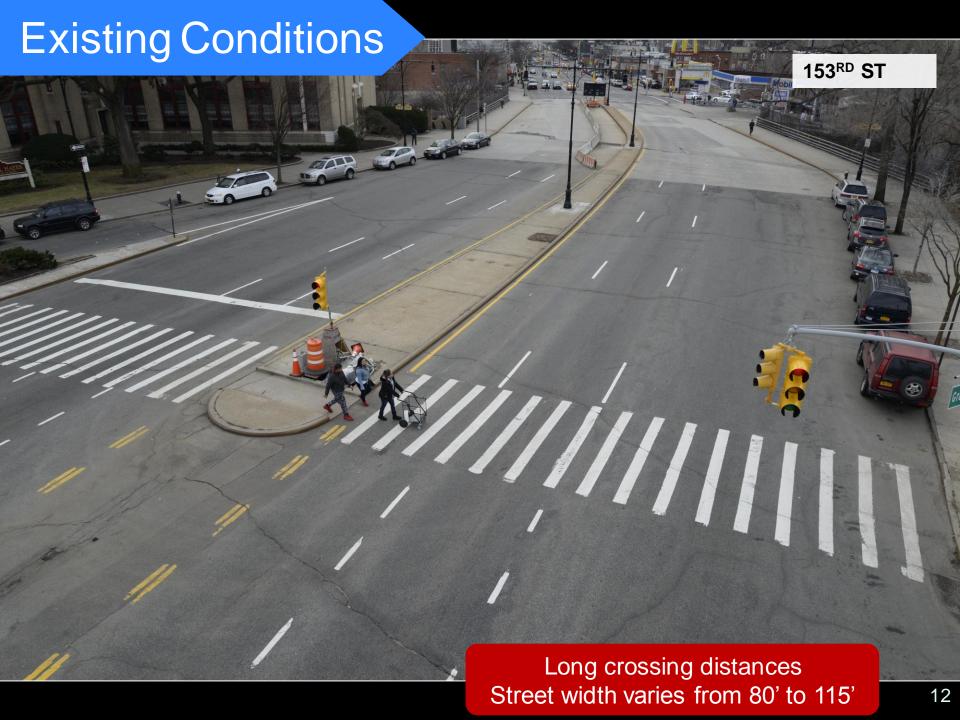












In-House Toolkit



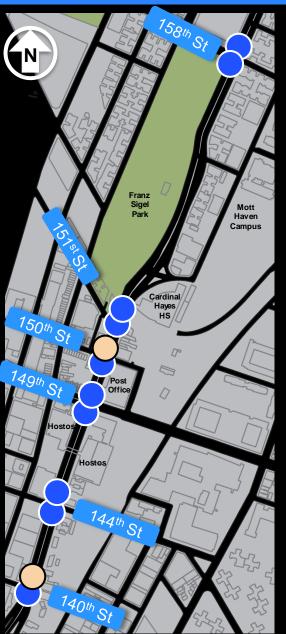


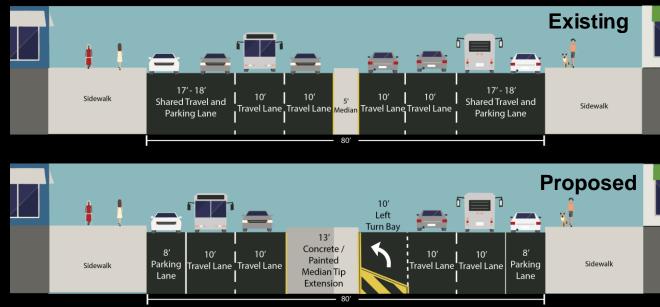






140th St – 151st St, 156th St - 158th St: Typical





Construct 10 concrete median tip extensions

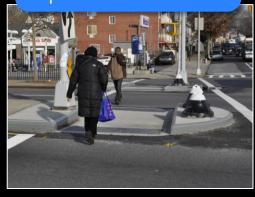


Install 2 painted median tip extensions

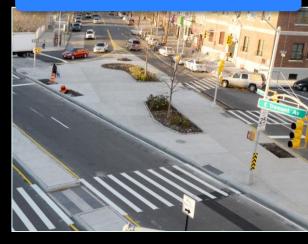


Implement safety improvements at intersections with complicated geometry

Concrete median tip extensions and pedestrian islands



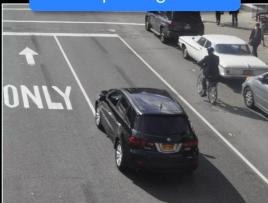
Concrete island extensions

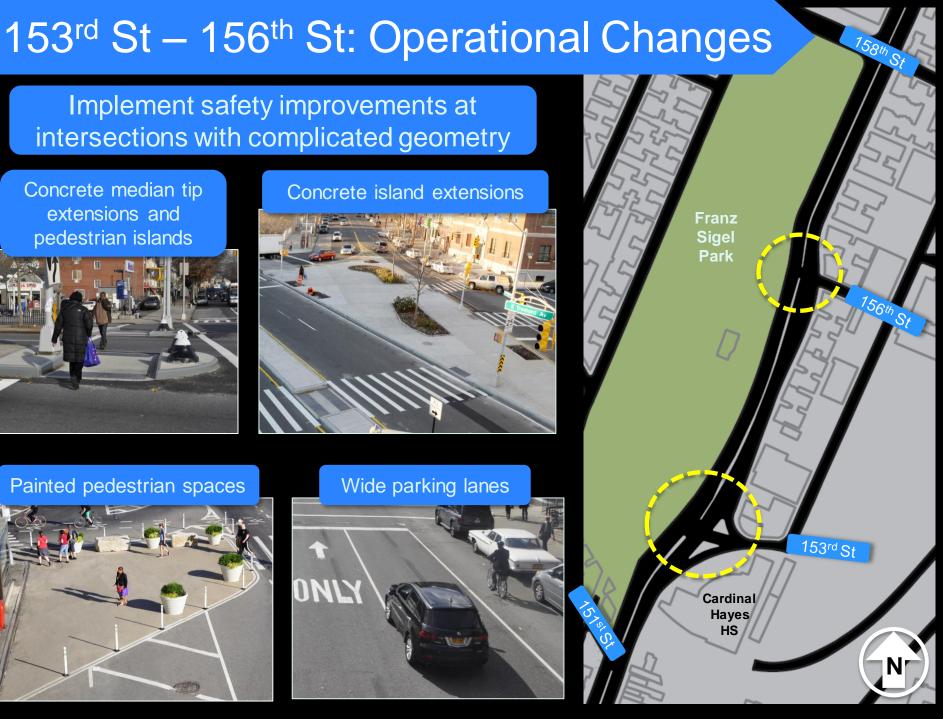






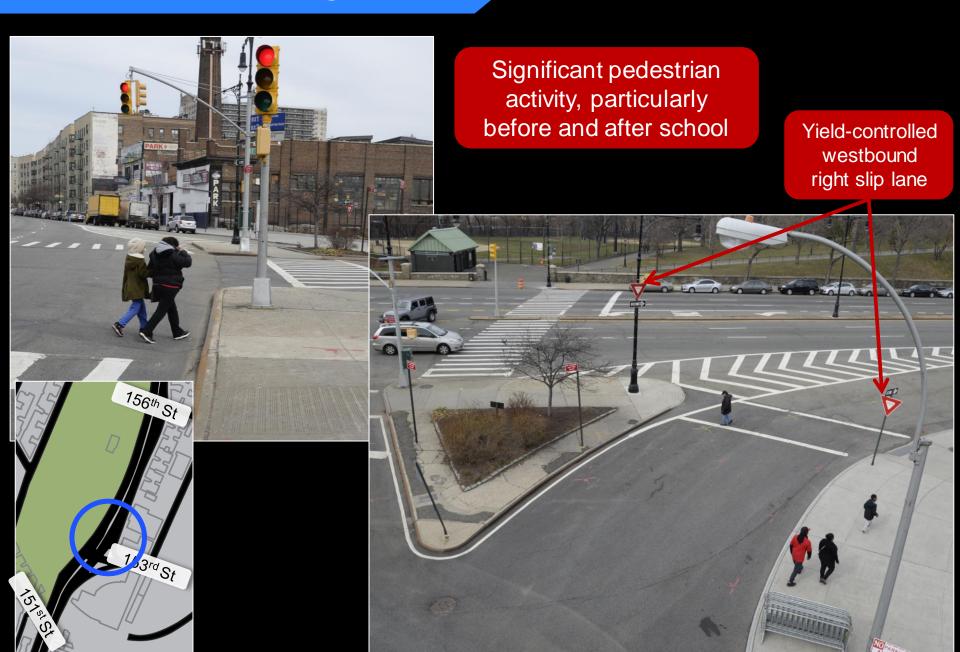
Wide parking lanes

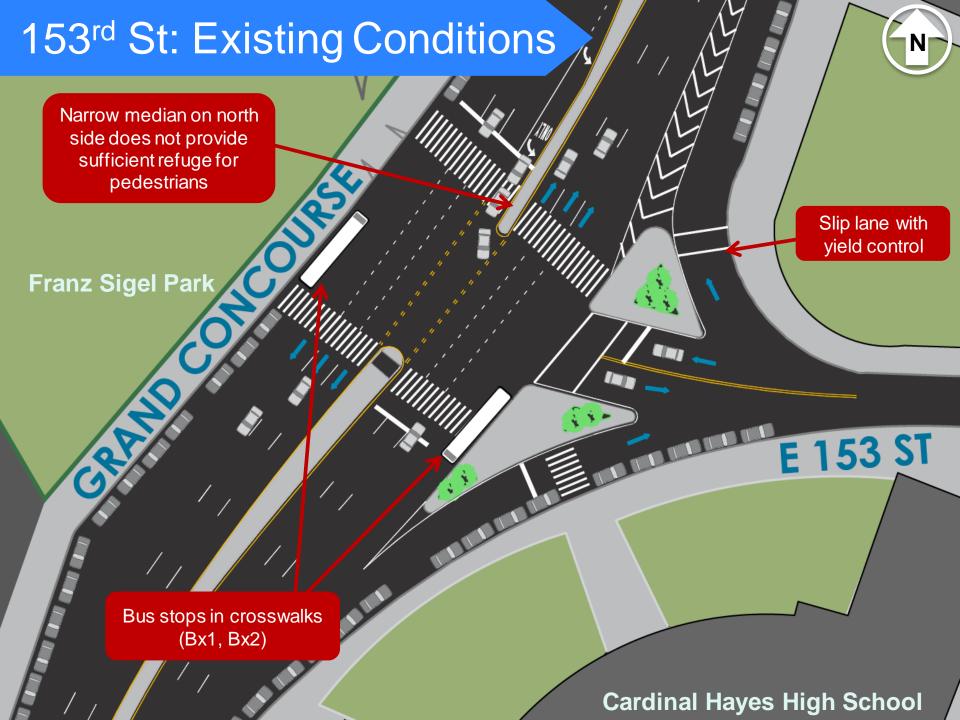


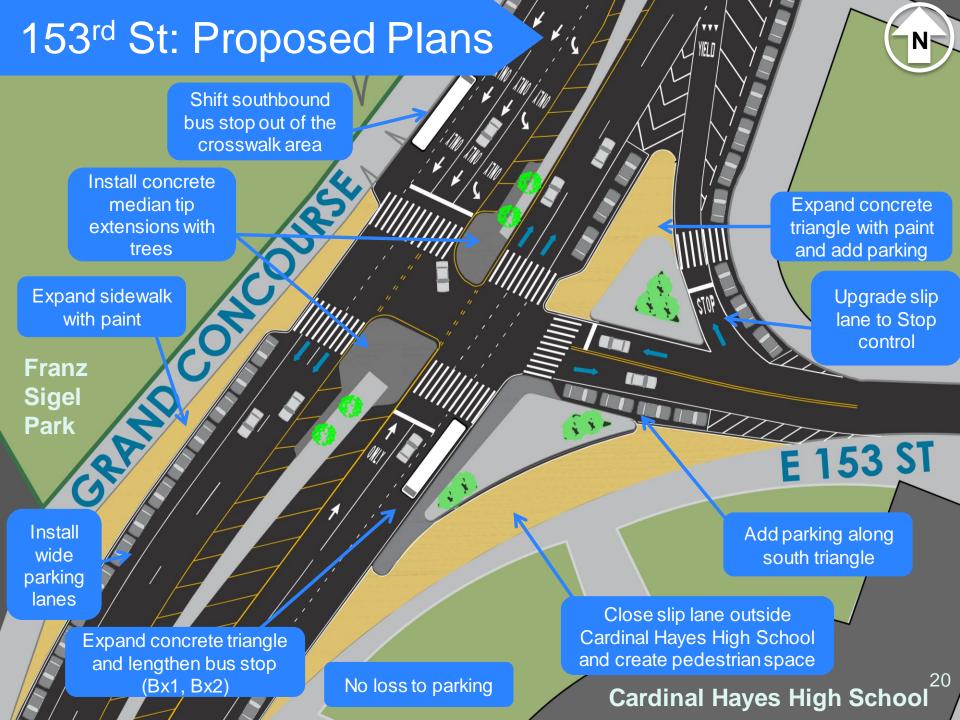




153rd St: Existing Issues

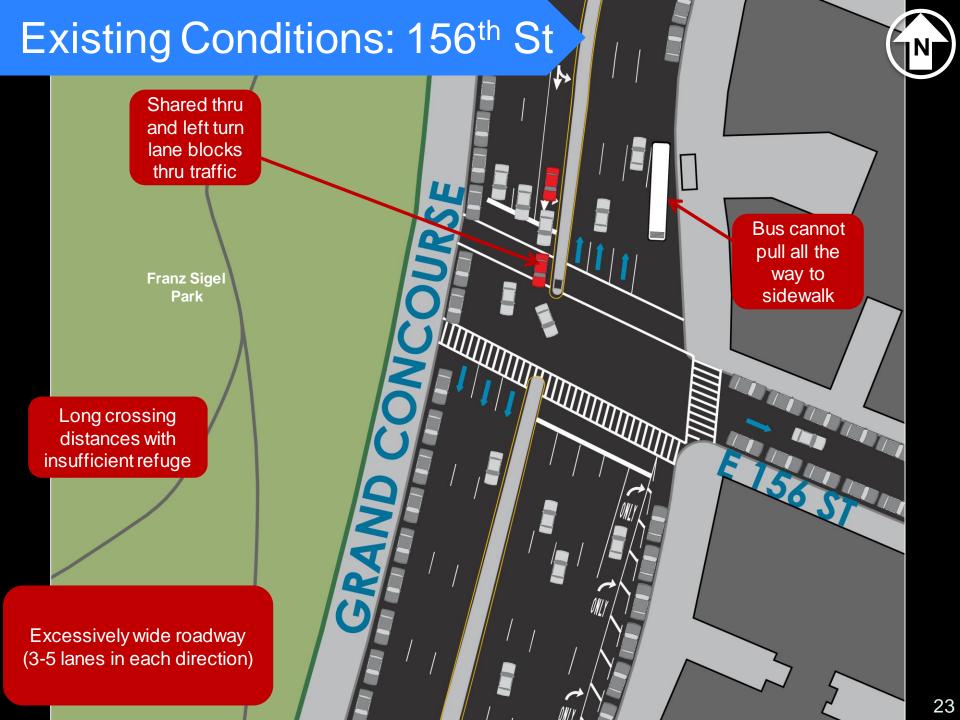


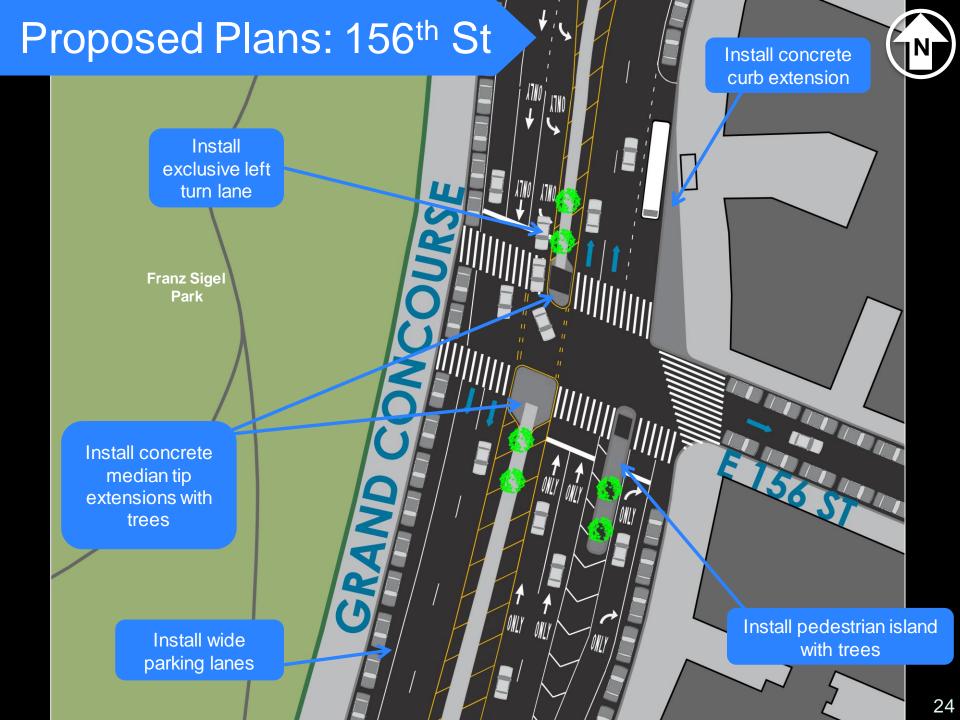




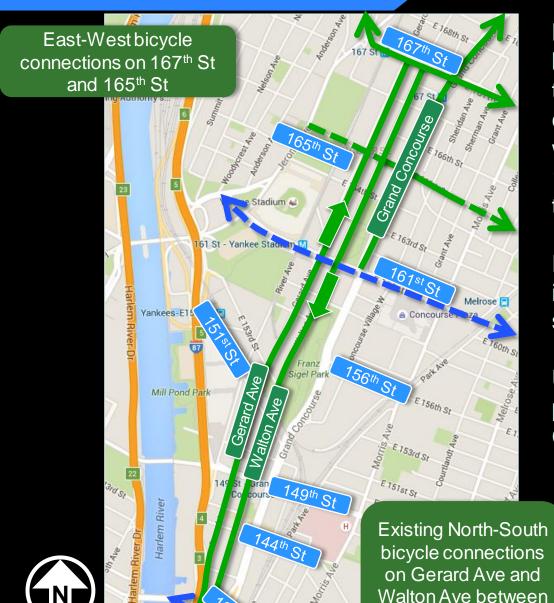








Bike Enhancements



Bike facilities are not feasible between 138th St and 158th St on the Grand Concourse due to constrained geometry, however wide sections between 153rd St and 156th St allow for 13' parking lanes that accommodate bicyclists

Future capital plans would incorporate bicycle facilities on this section of the Grand Concourse

Upgraded bicycle facilities are in planning for all sections of the Grand Concourse north of 162nd St



Existing Bicycle Facility



138th St and 167th St

Proposed Bicycle Facility

Project Benefits

Simpler, safer intersections

Reduced speeding and weaving

Safer, shorter pedestrian crossings

Better refuge for pedestrians

Improved pedestrian visibility

Clarified vehicular movements

Parking maintained

Traffic flow maintained

Similar treatments have improved safety

Adam Clayton Powell Jr Blvd, 133 St – 153 St, Manhattan (3 year averages)

- 26% reduction in total injuries
- 37% reduction in pedestrian injuries

4th Avenue, 15 St – 65 St, Brooklyn (2 year averages)

- 17% reduction in total injuries
- 34% reduction in pedestrian injuries

Pennsylvania Ave, Brooklyn

(2 year averages)

- 12% reduction in total injuries
- 29% reduction in pedestrian injuries

Proposal Summary

- 1. Reduce the number of moving lanes from 6 to 5, including a left turn lanes where needed
- 2. Install 14 concrete and 2 painted median tip extensions at intersections along the corridor
- 3. Expand concrete triangles in paint/gravel (north side) and concrete (south side) and close south slip lane with paint/gravel at 153rd St outside Cardinal Hayes High School. Extend west sidewalk by Franz Sigel Park in paint/gravel.
- 4. Install 1 concrete island and 1 concrete curb extension at 156th St
- 5. Install parking lanes and channelization to clarify traffic movements
- 6. Upgrade all crosswalks to high visibility crosswalks
- 7. Update markings on the corridor
- 8. Install pedestrian ramps along the corridor

