

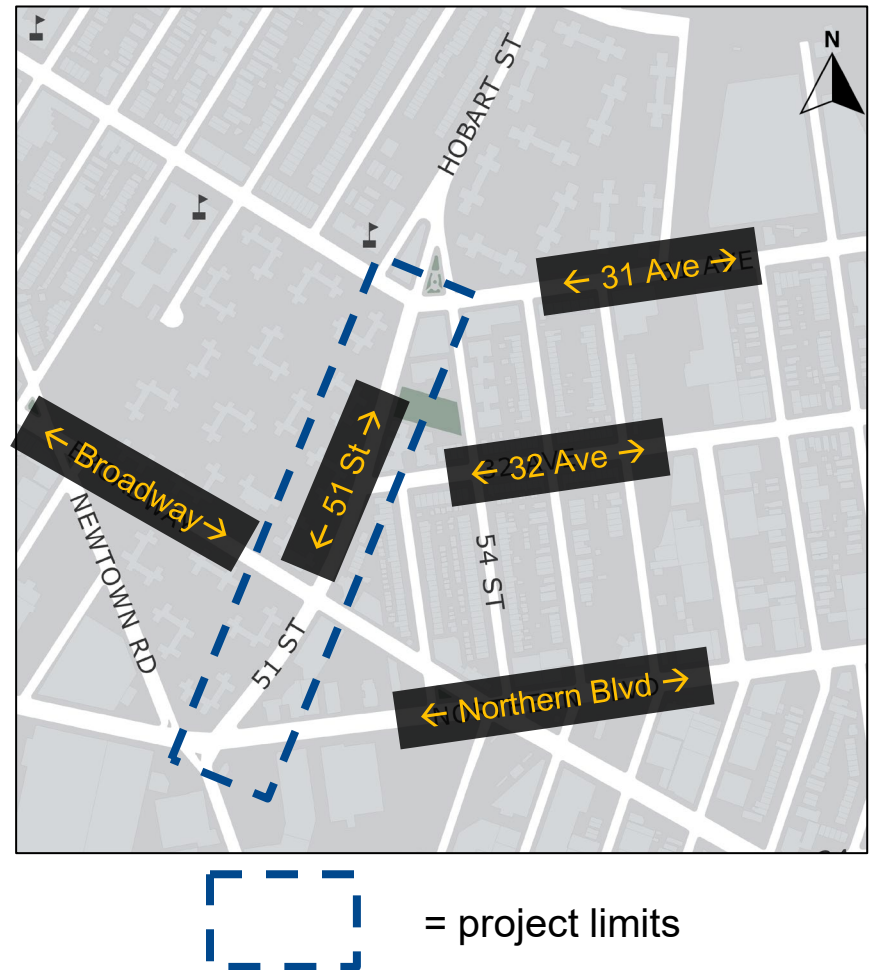


51st St (31st Ave to Northern Blvd)

Safety Improvements
Queens Community Board 1

Project Location

- Project limits: 51st St, from 31st Ave to Northern Blvd
- The west side of 51st St from 31st Ave until Broadway is NYCHA Woodside Houses
- Q18 bus runs southbound along 51st St (31st Ave to Broadway)
- Multiple nearby schools, including P.S. 151 and William Cullen Bryant High School, childcare center, and new high school on Northern Blvd between 51st St & Broadway
- Local truck route along Broadway, through truck route along Northern Blvd
- Wide intersections with heavy pedestrian traffic



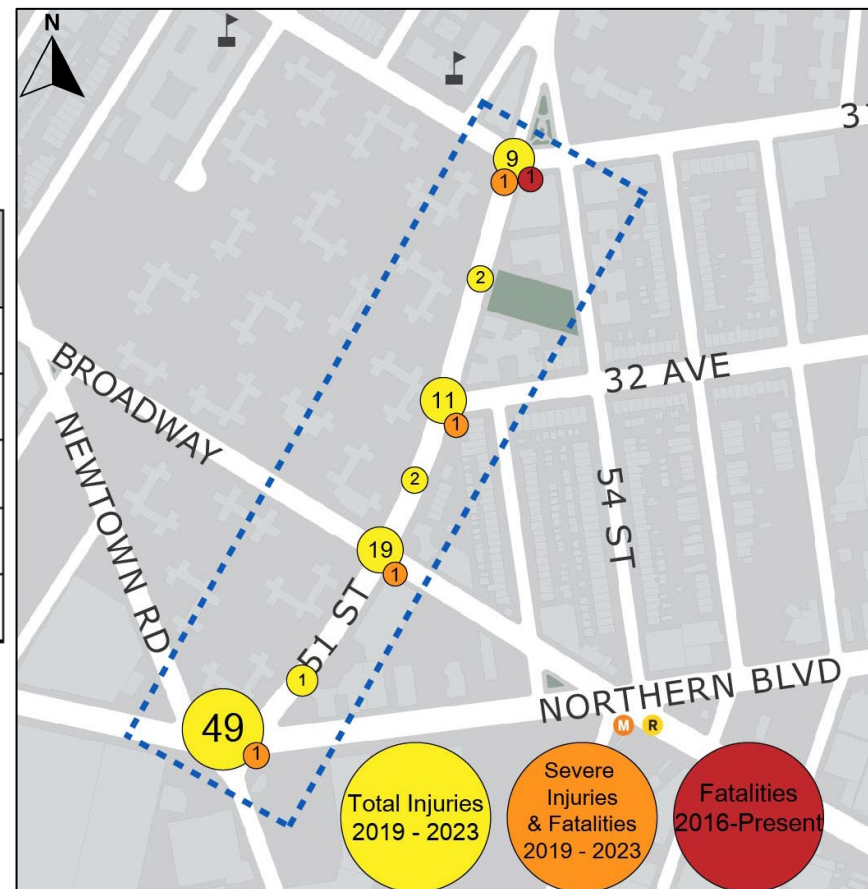
Safety Data

Injury Summary, 2019-2023 (5 Years)

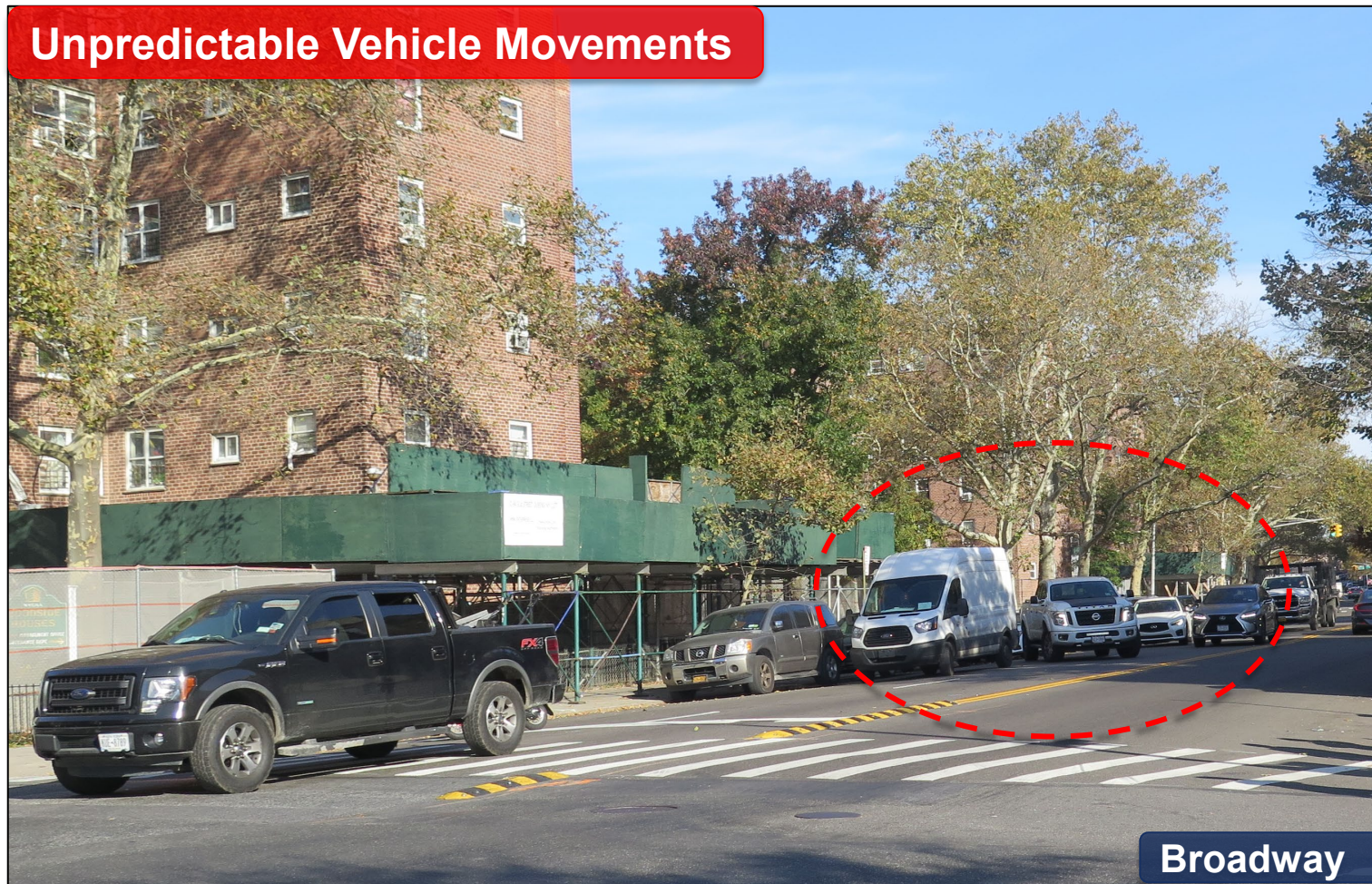
Mode	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	23	3	0	3
Bicyclist	16	0	1	1
Motor Vehicle Occupant	51	1	0	1
Other Motorized	3	0	0	0
Total	93	4	1	5

Source: Fatalities: NYCDOT, Injuries: NYPD FORMS database
KSI: Persons Killed or Severely Injured

- 51st St & Broadway is a Vision Zero Priority Intersection; 51st St corridor is in a Vision Zero Priority Area
- 5 total KSI, 3 pedestrian KSI, 1 fatality (bicyclist)
 - Bicyclist fatality at 51st St/31st Ave in 2020
- Pedestrian/vehicle turning conflicts & speeding are concerns on corridor
- Numerous failure to yield crashes: 59% of all pedestrian injuries



Existing Conditions



Existing Conditions

Vehicle Misuse of Lanes



Existing Conditions

59% of pedestrian injuries due to vehicles' failure to yield



Existing Conditions



Existing Conditions



Existing Conditions



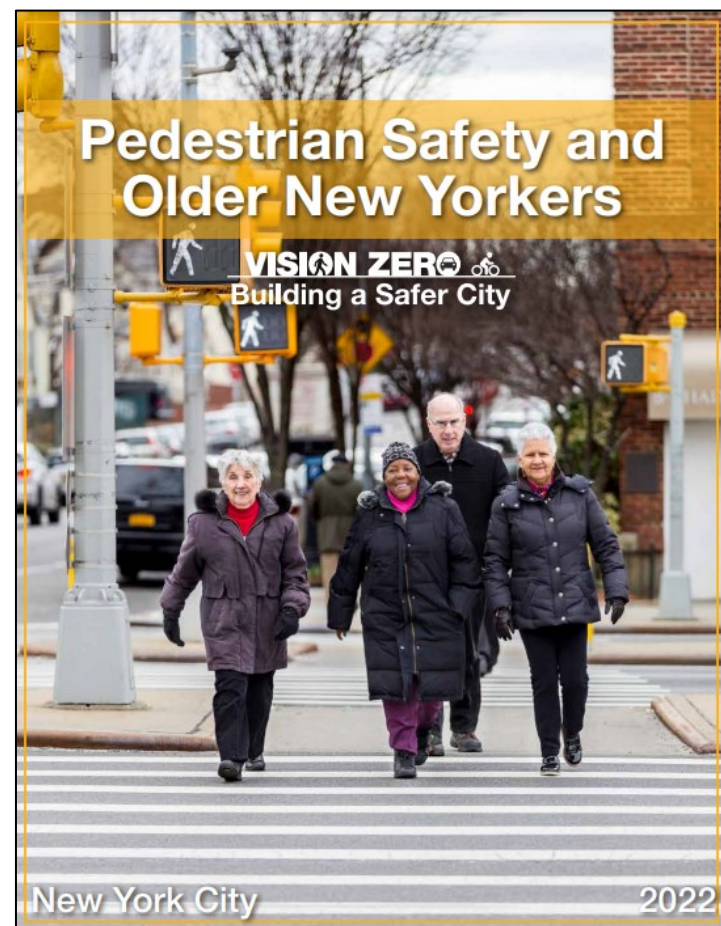
Proposed Conditions

- Remove southbound travel lane to better organize roadway for all road users, encourage safer travel speeds, and calm traffic
- Install pedestrian islands at 31st Ave, 32nd Ave, and Broadway to shorten crossing distances and encourage slower, safer turns onto 51st St
- Bus stop consolidation and install bus boarding island at 32nd Ave to improve bus rider safety and accessibility
- Install Leading Pedestrian Intervals at 32nd Ave and Northern Blvd to give pedestrians a conflict-free head start
- Install Parking-Protected Bike Lanes to provide a safe cycling connection
 - Two-way bike lane from 31st Ave to 32nd Ave
 - One-way bike lanes from 32nd Ave to Northern Blvd
- Install northbound standard bike lane 32nd Ave to 31st Ave



Protected Bike Lane Safety

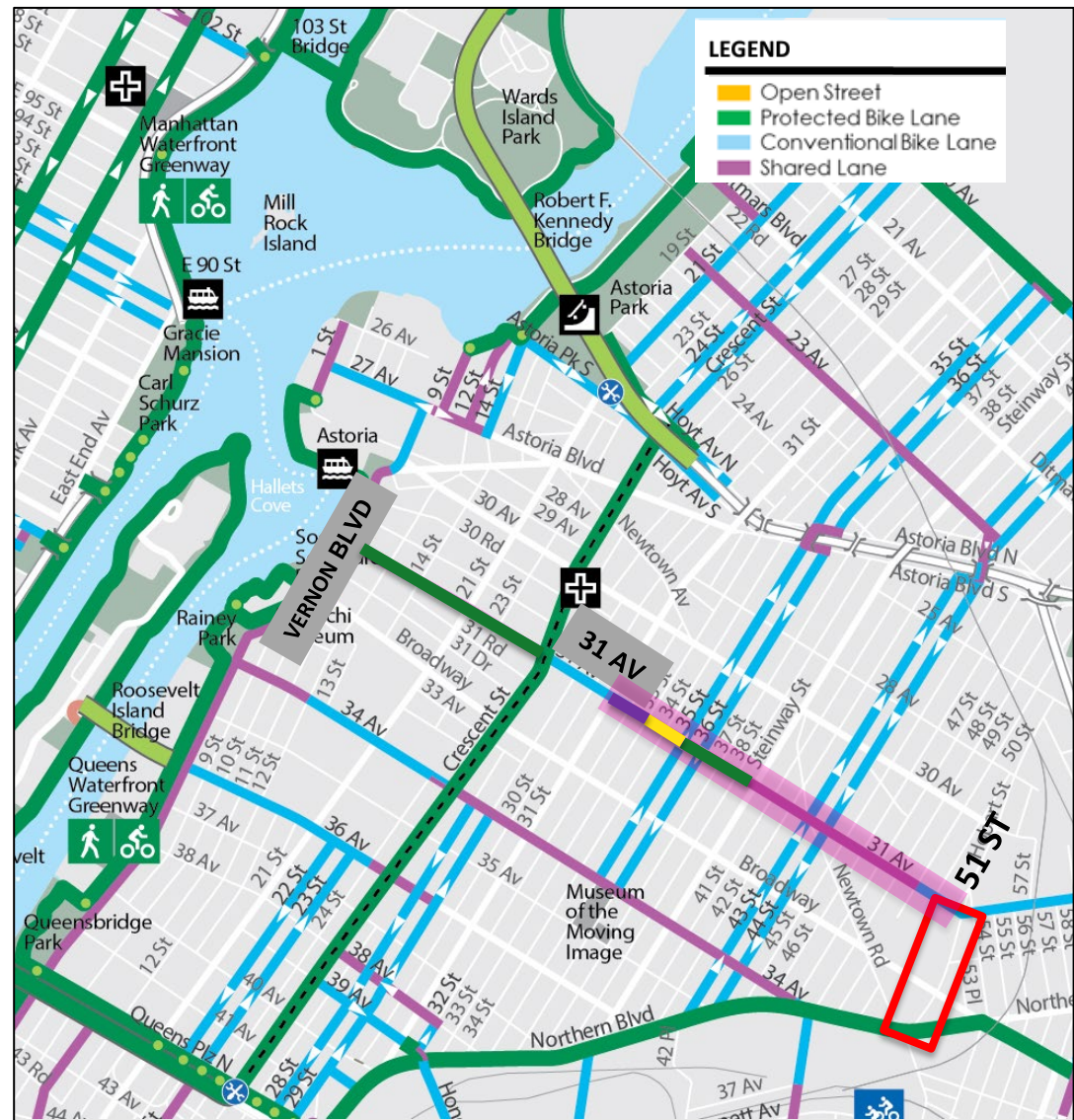
- As part of DOT's Pedestrian Safety and Older New Yorkers study (2022), DOT analyzed the impact of Protected Bike Lanes on safety for roadway users
- Protected Bike Lane designs are proven to calm traffic and improve safety for all roadway users
- Safety improvements associated with Protected Bike Lanes are most impactful for the most vulnerable roadway users
 - All users:
 - 14.8% injury reduction
 - 16.1% KSI reduction
 - Pedestrians:
 - 17.8% injury reduction
 - 29.2% KSI reduction
 - Senior Pedestrians:
 - 22% injury reduction
 - 39% KSI reduction





Cover of NYC DOT's Pedestrian Safety and Older New Yorkers Report

Bike Network

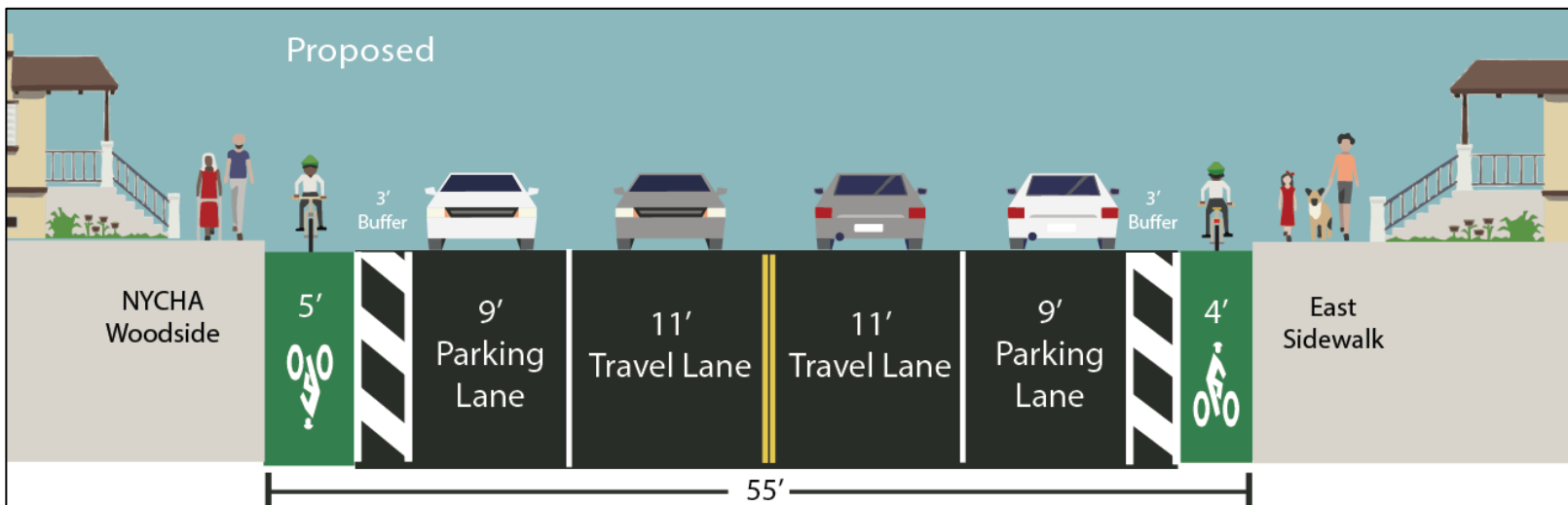
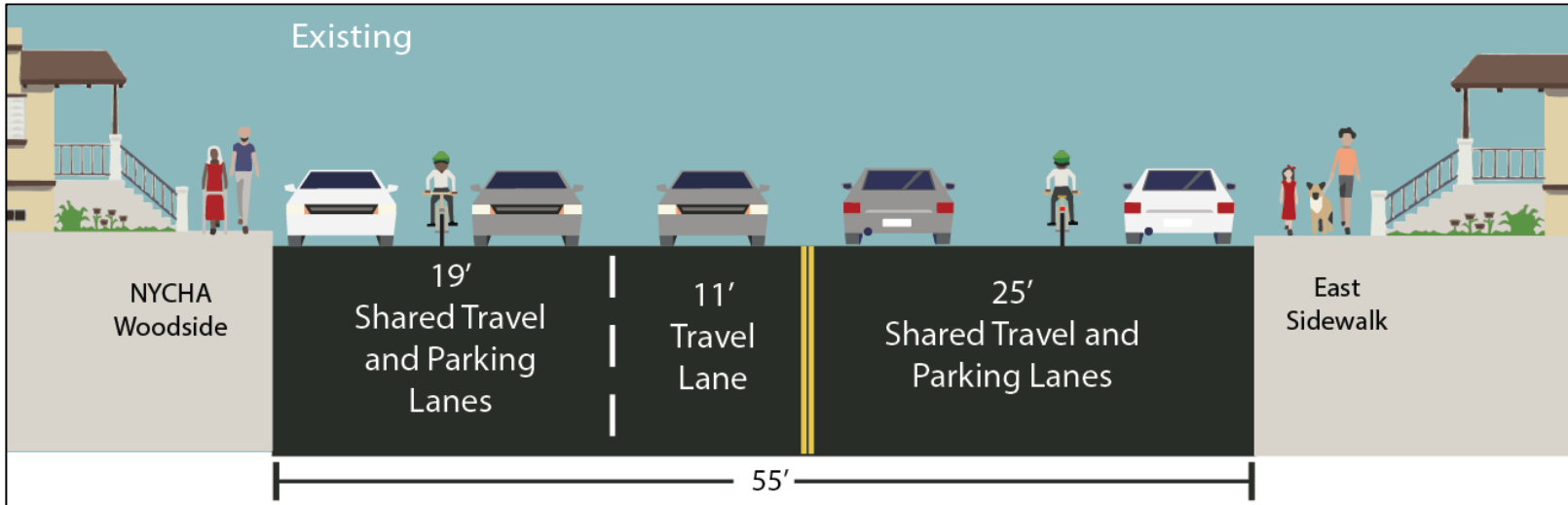
- Important North/South gap between 31st Ave and Northern Blvd
- CitiBike expanded to area in 2021
- Ongoing bike and public realm project: Protected Bike Lane on 31st Ave
 - Extensive outreach/planning in CB 1 including workshops, online survey, merchant surveys
 - Completed in 2024: Vernon Blvd to 31st St
 - Upcoming: 31st St to 51st St



 = 31st Ave project remaining limits
 = 51st St safety project limits

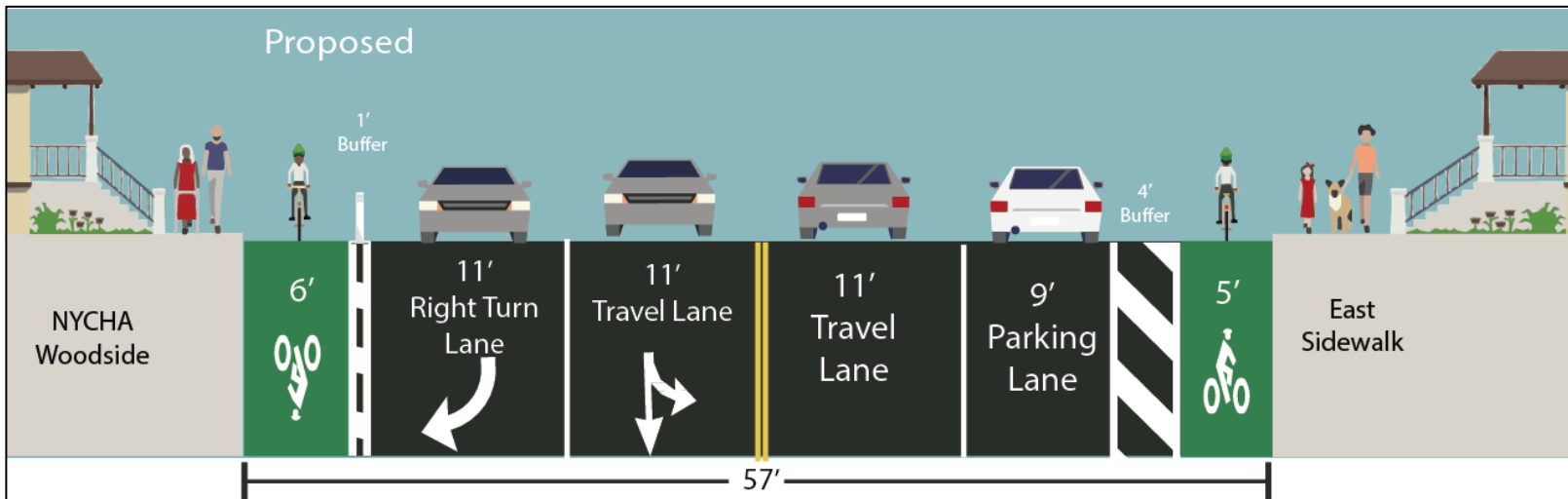
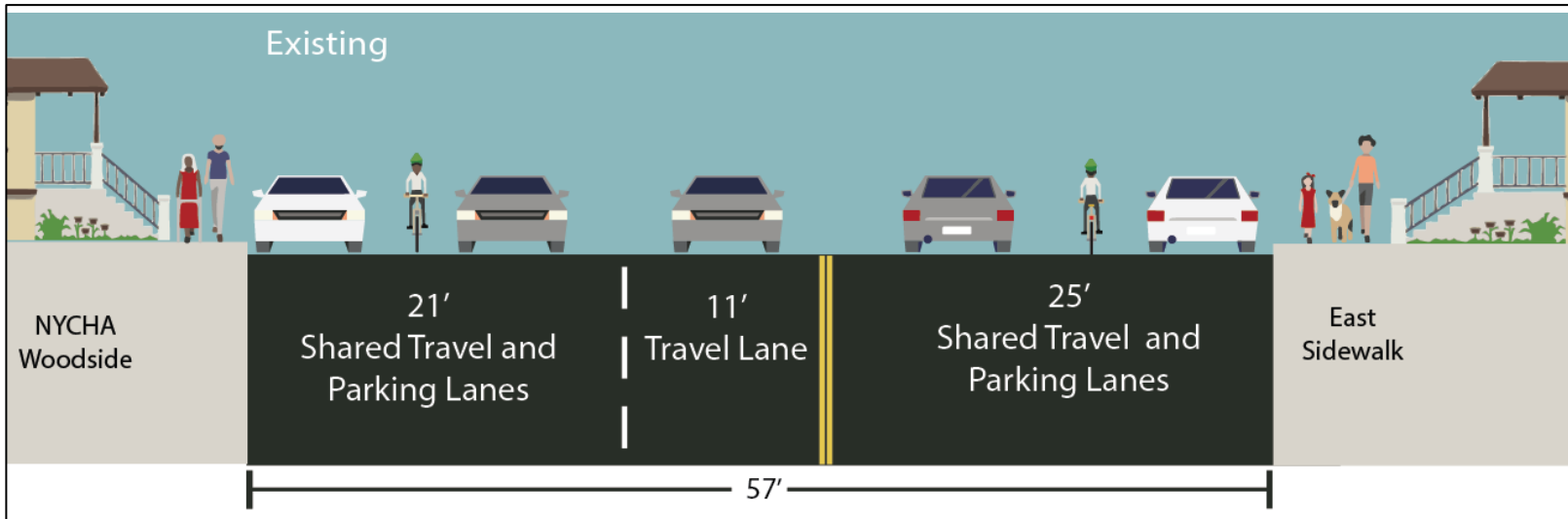
Key Design Features: 32nd Avenue to Northern Boulevard

- Protected Bike Lanes
- Lane reduction for SB vehicles



Key Design Features: Northern Boulevard & Broadway

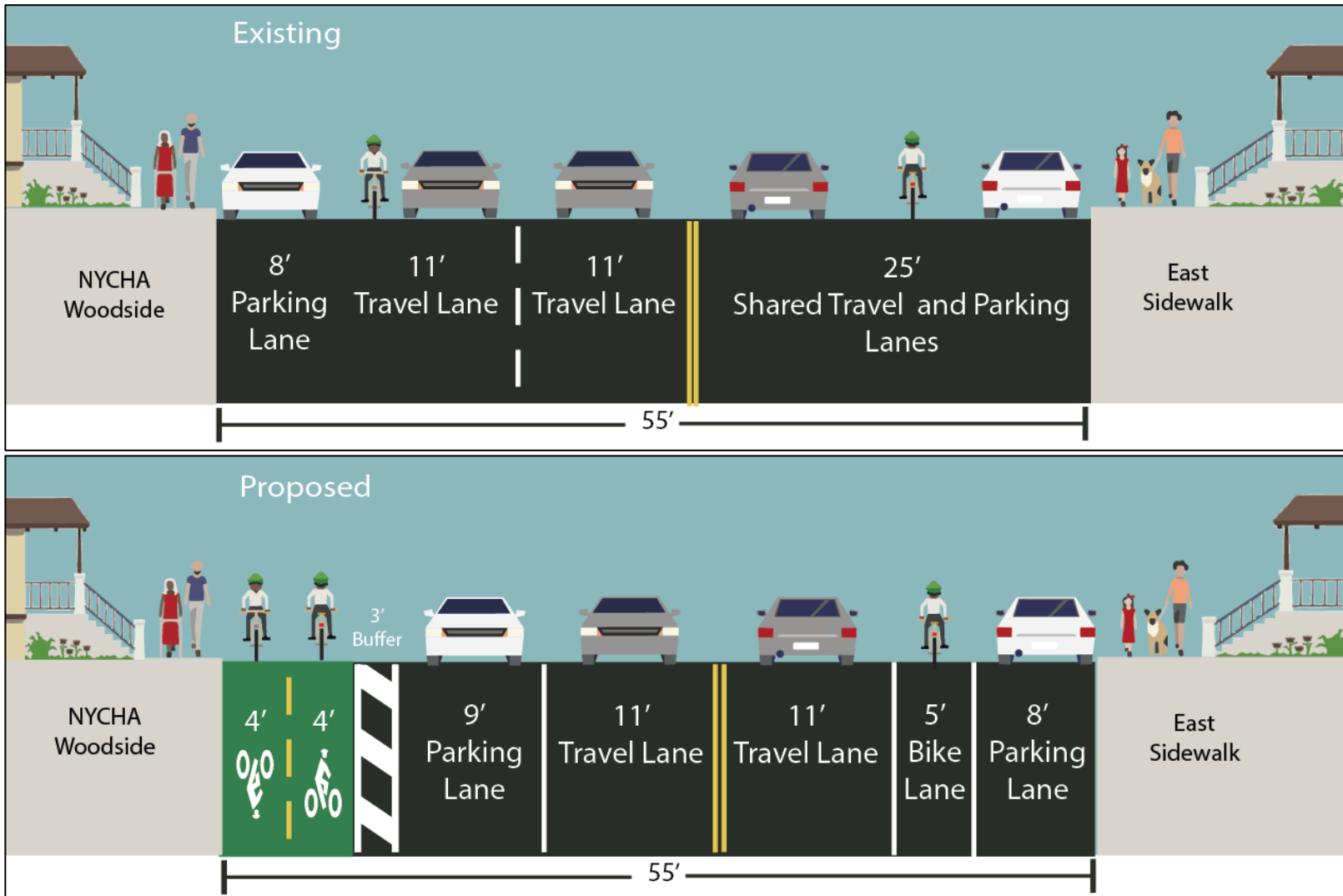
- Protected Bike Lanes
- Southbound right turn bays



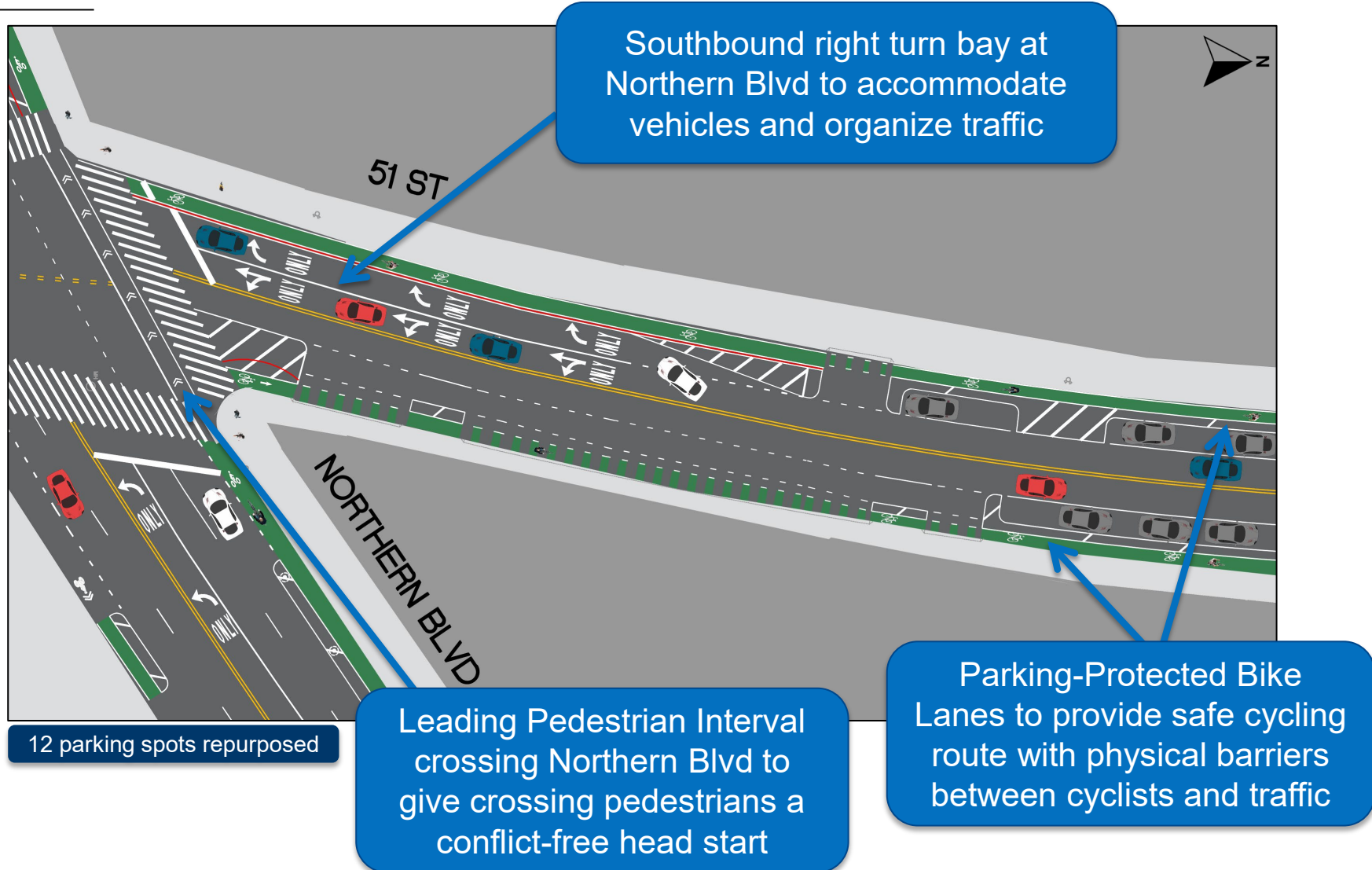
Key Design Features:

31st Avenue to 32nd Avenue

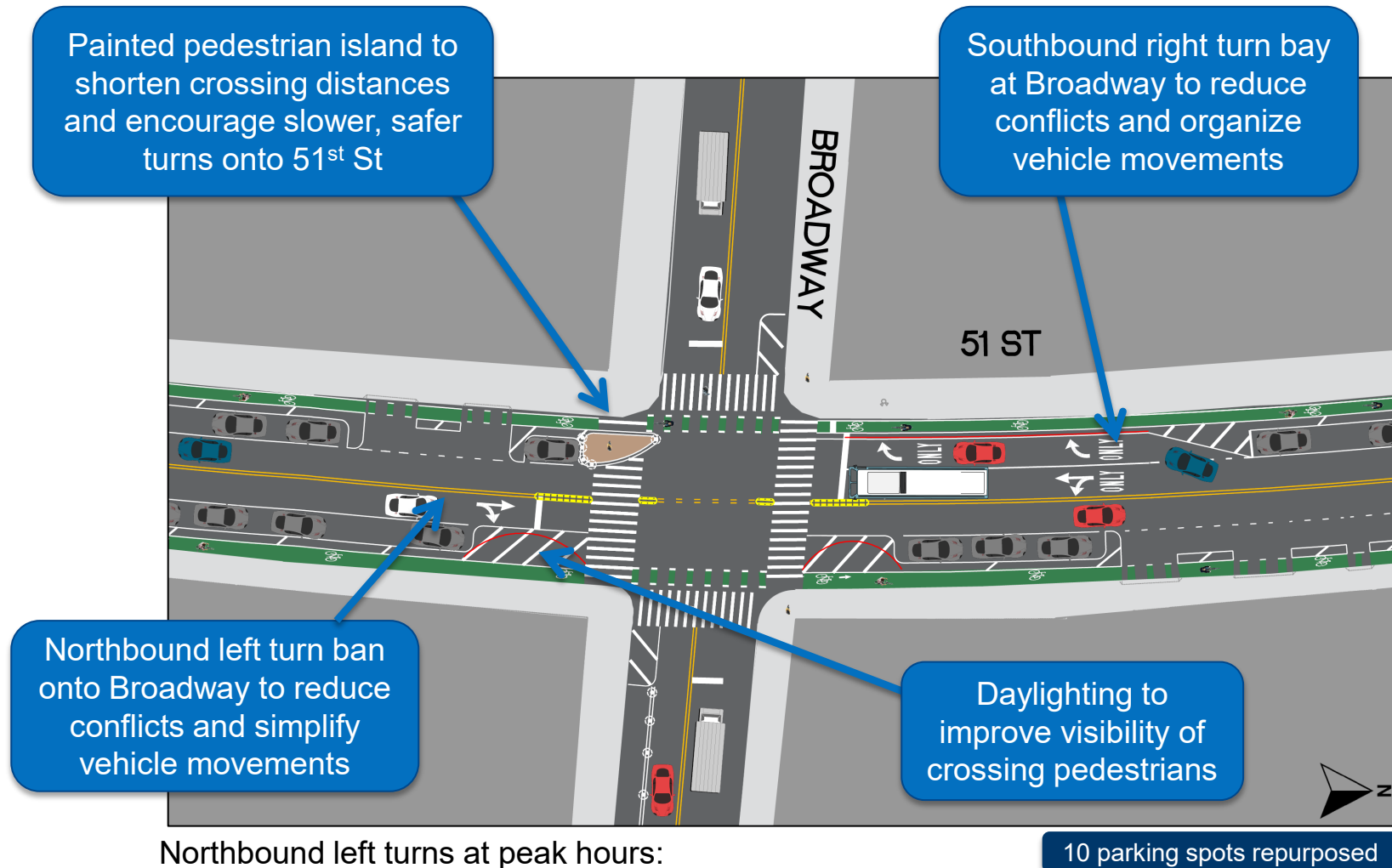
- Two-way Protected Bike Lane
- NB conventional bike lane
- Lane reduction for SB vehicles



Proposed Safety Improvements: Northern Boulevard to Broadway



Proposed Safety Improvements: Broadway



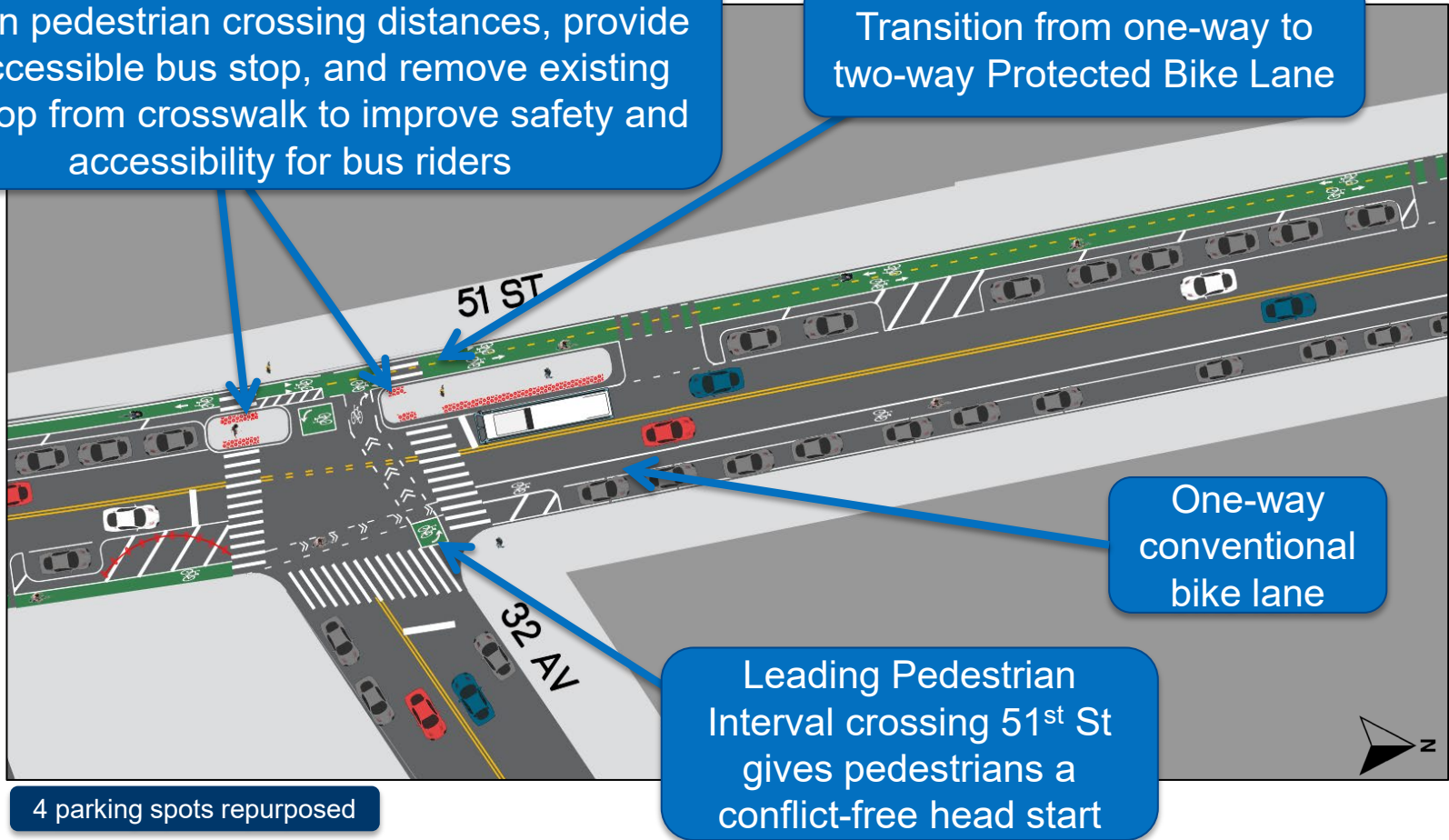
Northbound left turns at peak hours:

- AM: 13
- PM: 25

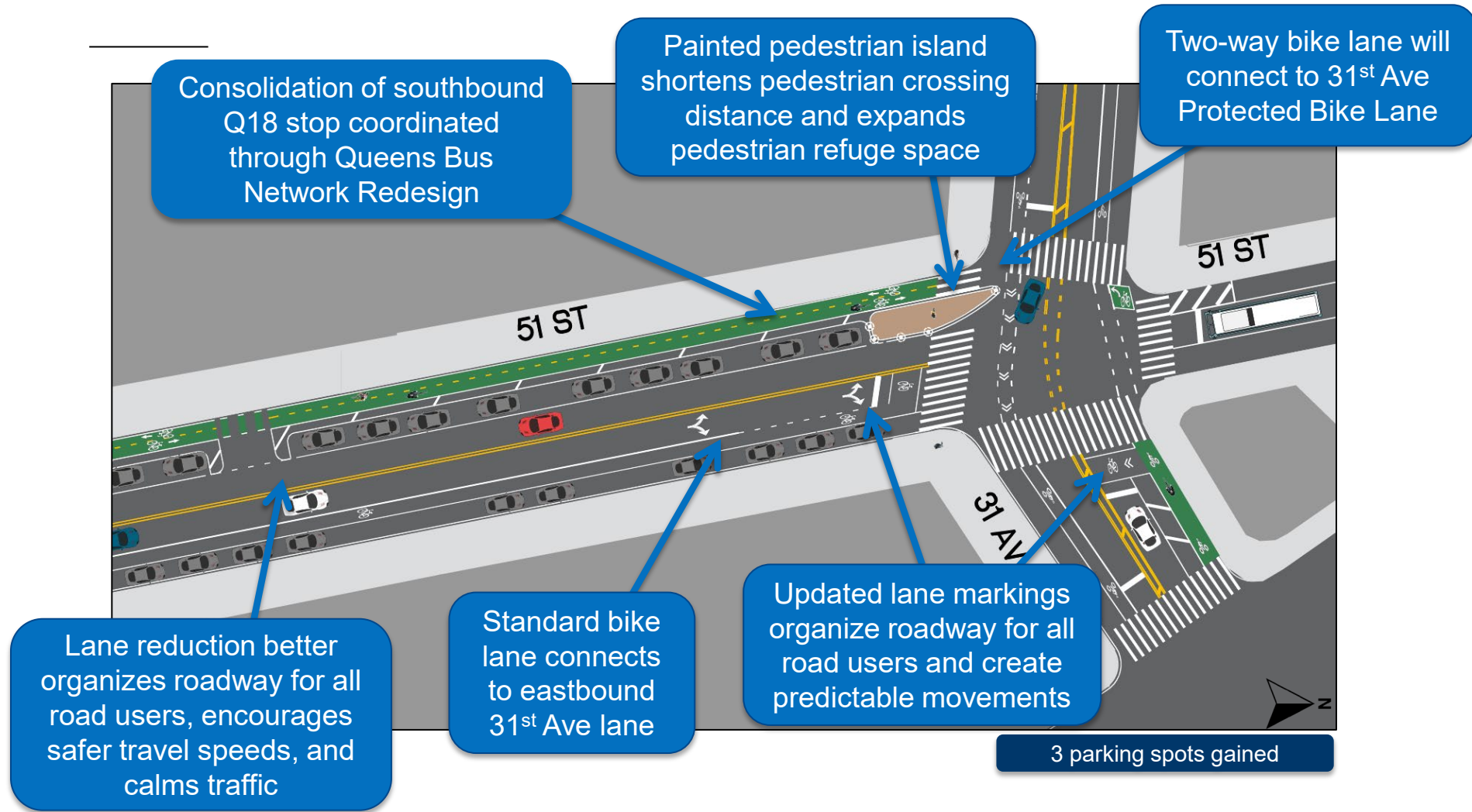
Proposed Safety Improvements: 32nd Avenue

Bus boarding island and pedestrian island shorten pedestrian crossing distances, provide an accessible bus stop, and remove existing bus stop from crosswalk to improve safety and accessibility for bus riders

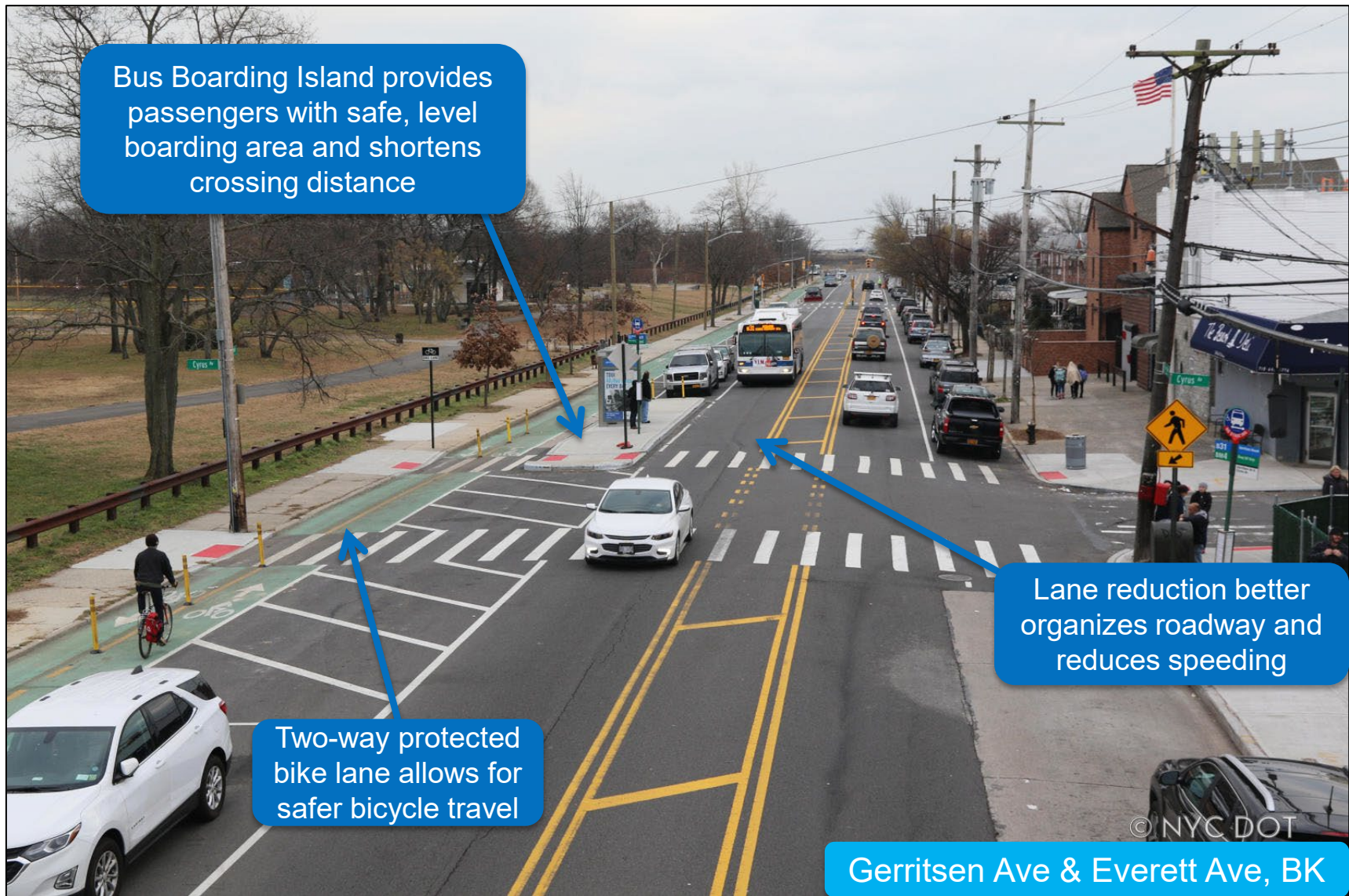
Transition from one-way to two-way Protected Bike Lane



Proposed Safety Improvements: 31st Avenue



Example of Proposed Conditions



Project Benefits

- Improve predictability and organization for motor vehicle users
- Increase pedestrian visibility and accessibility
- Facilitate shorter, safer pedestrian crossings
- Facilitate slower, safer turns onto and off 51st St, improve yielding to pedestrians and cyclists
- Safer and more convenient bicycle travel, provide connection to existing bike infrastructure



Thank you!



NYCDOT



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