

An aerial photograph of a city intersection. In the foreground, a wide concrete median is lined with several large, light-colored planters containing various green and brown plants. A pedestrian is walking across a crosswalk in the lower center. The intersection has multiple lanes with white and red painted markings. Traffic lights and streetlights are visible at the corners. In the background, there is a building with colorful graffiti and a bridge in the distance.

# Sheridan Blvd Network

## Safety Improvements

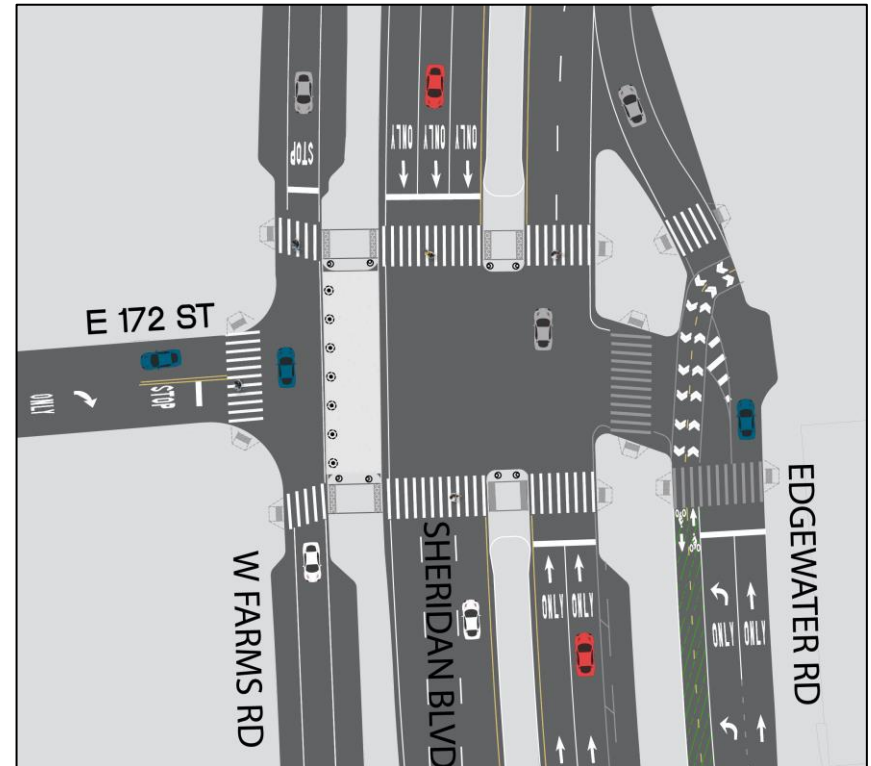
Bronx Community Board 3 | 2023



# Background

- Background:
  - NYS recently completed project to transform Sheridan Expressway into pedestrian and bicycle-friendly Sheridan Boulevard and transferred ownership to NYC DOT
- NYC DOT Project Goals:
  - Improve local vehicle access to Sheridan Blvd
  - Provide multi-modal connections to/from the new Sheridan Blvd and Starlight Park
  - Adjust local streets to improve safety and better accommodate access to Sheridan Blvd

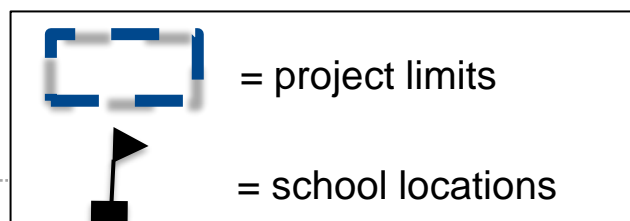
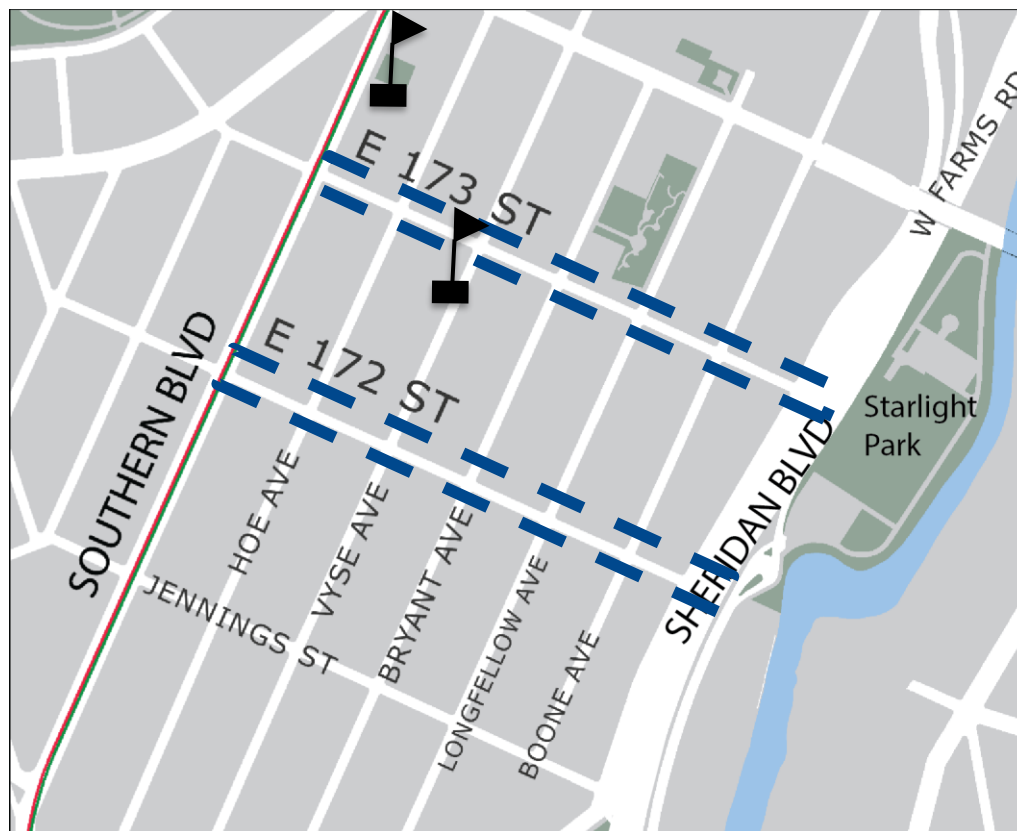
Existing Conditions: E 172<sup>nd</sup> St and Sheridan Blvd



# Project Location

## E 172<sup>nd</sup> St and E 173<sup>rd</sup> St, Southern Blvd to Sheridan Blvd

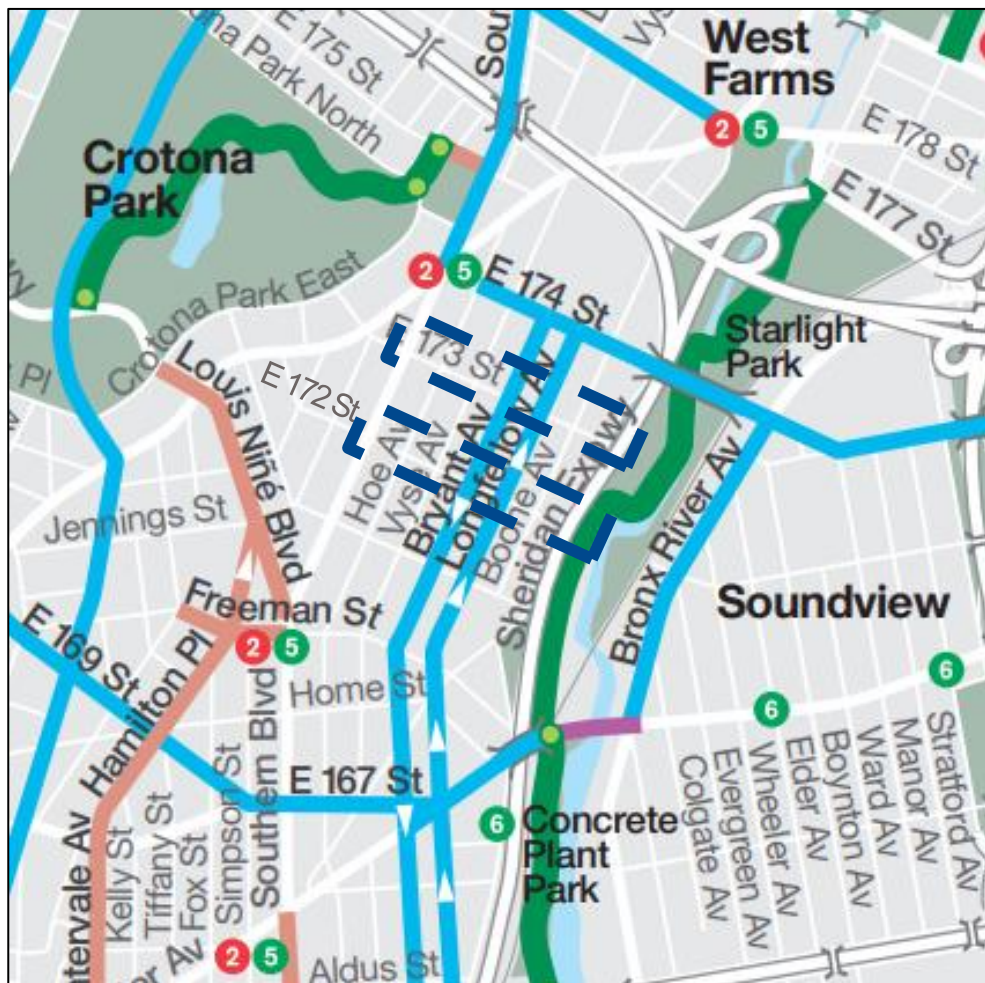
- Existing Neighborhood Slow Zone
- W Farms Rd is a local truck route
- Sheridan Blvd is a through truck route
- Nearby schools:
  - Samara Community School on Vyse Ave between E 172<sup>nd</sup> St and E 173<sup>rd</sup> St
  - East Bronx Academy for the Future on Southern Blvd between E 173<sup>rd</sup> St and E 174<sup>th</sup> St
- E 172<sup>nd</sup> St and E 173<sup>rd</sup> St have mainly residential land use with a few commercial buildings



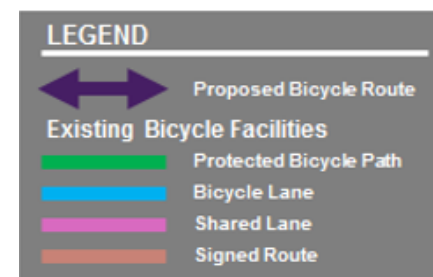


# Existing Bike Network in Project Area

E 172<sup>nd</sup> St and E 173<sup>rd</sup> St, Southern Blvd to Sheridan Blvd



- Existing standard bike lanes on Bryant Ave and Longfellow Ave
- Bronx River Greenway includes two-way bike path on Edgewater Rd and connects Concrete Plant Park and Starlight Park
- The NYS DOT improvements included new access points to Starlight Park including a new pedestrian bridge across the Bronx River



= project limits

# Safety Data

Common crash types:

- Rear ends
- Right angle conflicts due to vehicles not stopping at stop signs
- Conflicts when exiting parking spots

## E 172<sup>nd</sup> St and E 173<sup>rd</sup> St (Sheridan Blvd to Southern Blvd) Crash Data

Injury Summary, 2016-2020 (5 Years)

Mode	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	11	0	0	0
Bicyclist	4	0	0	0
Motor Vehicle Occupant	99	9	0	9
Other Motorized	0	0	0	0
Total	114	9	0	9

Source: Fatalities: NYCDOT, Injuries: NYSDOT KSI: Persons Killed or Severely Injured



# Existing Conditions

## Lack of Neighborhood Access to Sheridan Blvd





# Existing Conditions

## Narrow, Sub-Standard Two-Way Roadways

E 172<sup>nd</sup> St and Vyse Ave

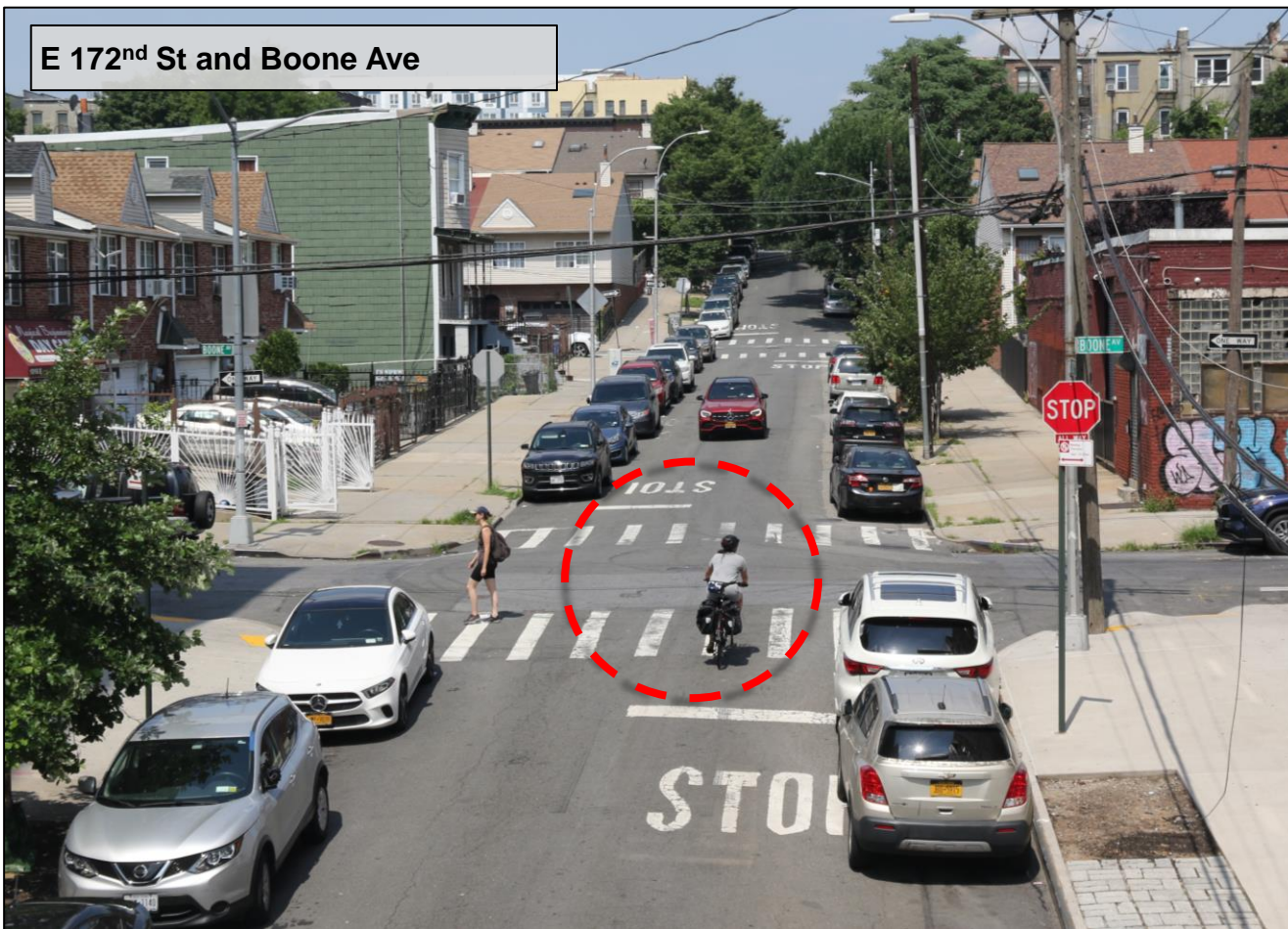


E 172<sup>nd</sup> St and Boone Ave



# Existing Conditions

## Lack of Bicycle Infrastructure





# Existing Conditions

## Ambiguous Sheridan Access



# Proposed Network Changes

- Open up access to Sheridan at E 173<sup>rd</sup> St and from Sheridan at E 172<sup>nd</sup> St
- Convert E 172<sup>nd</sup> and E 173<sup>rd</sup> between Southern Blvd and Sheridan Blvd to one-way streets, with E 172<sup>nd</sup> St westbound and E 173<sup>rd</sup> St eastbound
- Movements to/from W Farms Rd to Sheridan Blvd will not be permitted



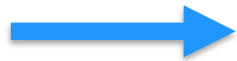
Traffic flow

# Access to Sheridan Blvd at E 173<sup>rd</sup> St

- Vehicles traveling eastbound on E 173<sup>rd</sup> St will be able to proceed northbound on Sheridan Blvd and connect to I-95 or proceed southbound and connect to Bruckner Blvd

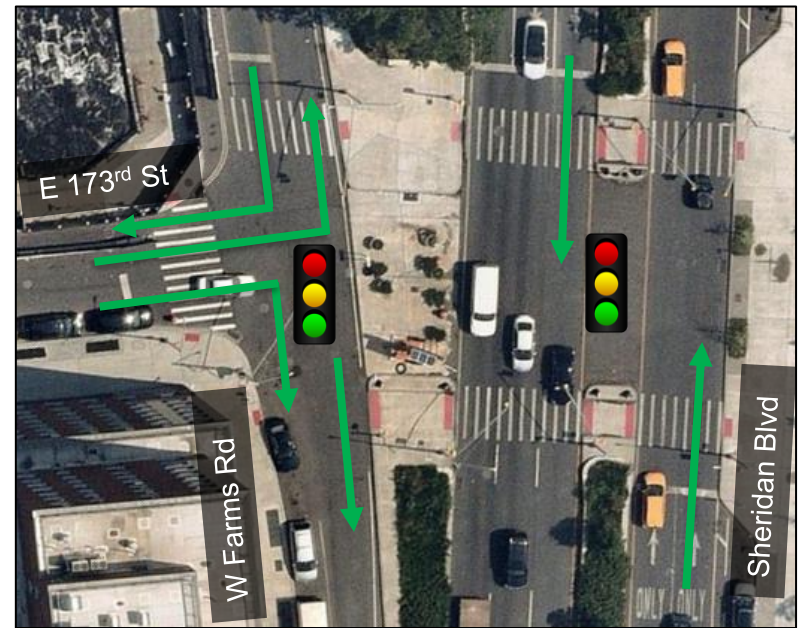


Permitted  
Movements

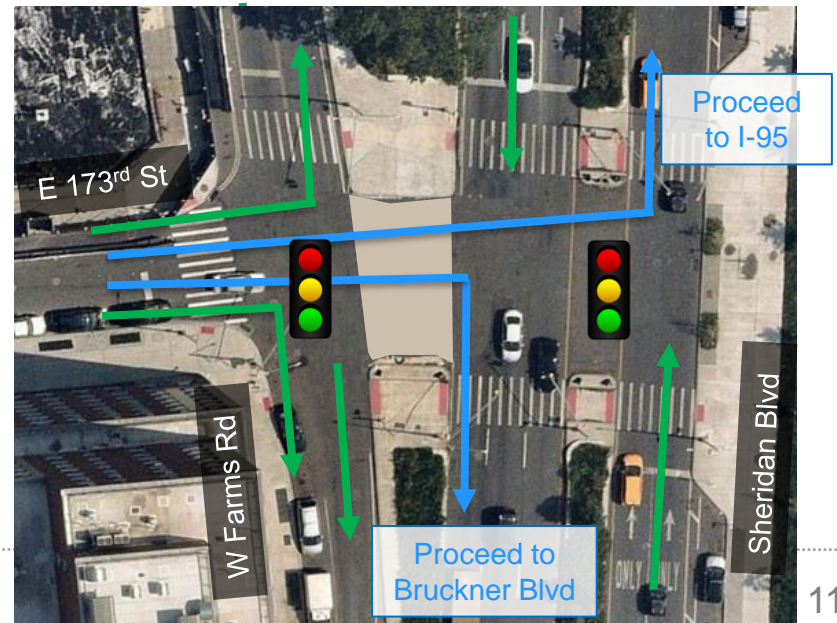


New  
Permitted  
Movements

Existing Conditions: Sheridan Blvd at 173<sup>rd</sup> St



Proposed Conditions: Sheridan Blvd at 173<sup>rd</sup> St



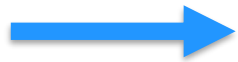


# Access to E 172<sup>nd</sup> St at Sheridan Blvd

- Northbound vehicles will be required to use Edgewater Rd to access westbound E 172<sup>nd</sup> St
- New traffic signal at W Farms Rd and E 172<sup>nd</sup>

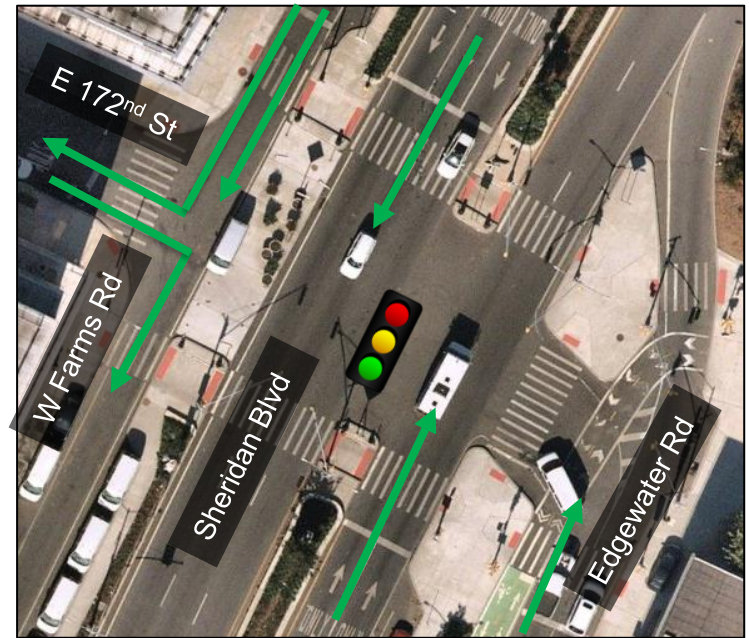


Permitted  
Movements

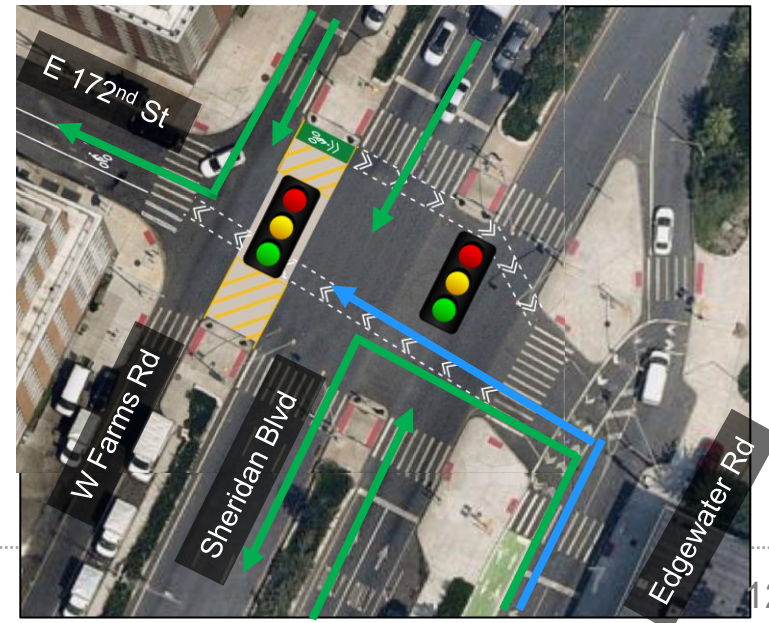


New  
Permitted  
Movements

Existing Conditions: Sheridan Blvd at E 172<sup>nd</sup> St



Proposed Conditions: Sheridan Blvd at E 172<sup>nd</sup> St

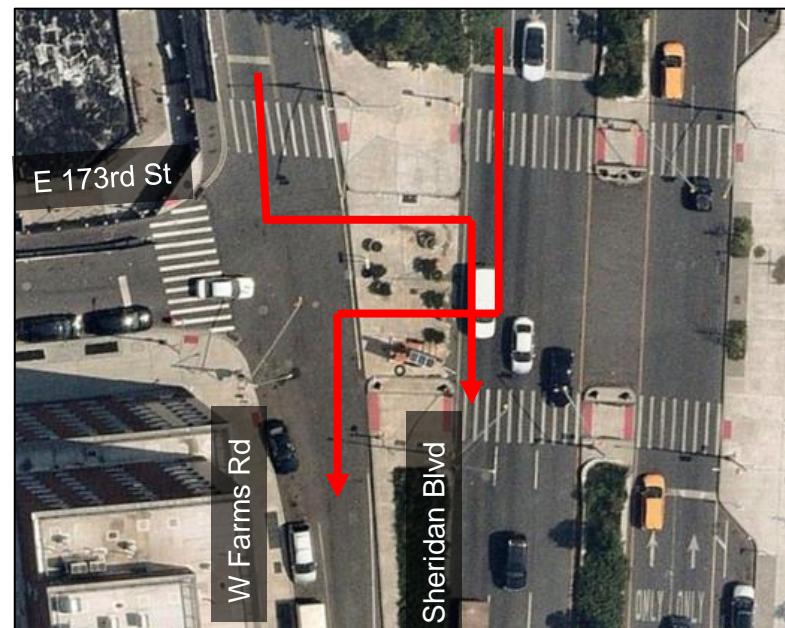


# Restricted Movements

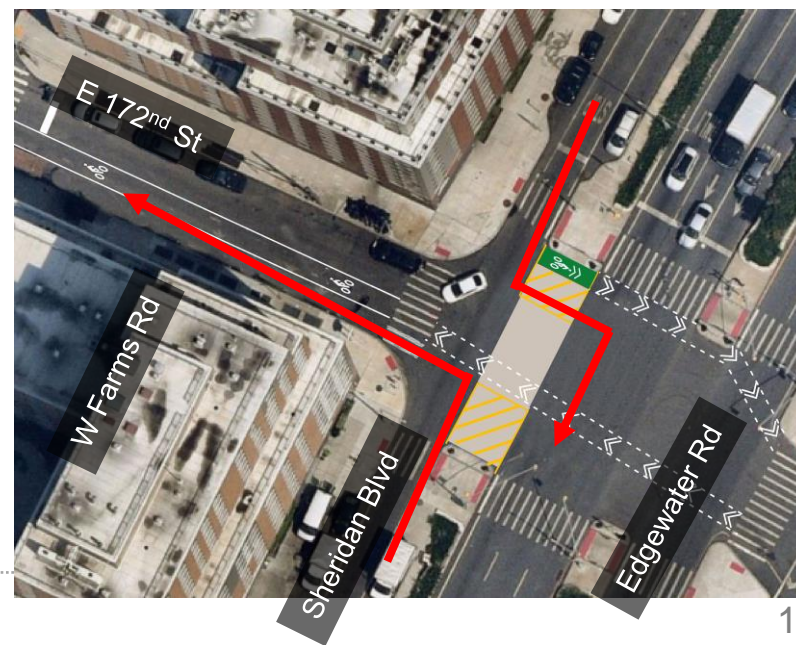
- Movements between W Farms Rd and Sheridan Blvd will not be permitted to prevent conflicts between vehicles
- For example, a vehicle moving from southbound West Farms Rd to southbound Sheridan Blvd could conflict with southbound through movements on Sheridan Blvd
- Signage will be used to inform drivers which movements are not permitted



Sheridan Blvd at 173<sup>rd</sup> St



Sheridan Blvd at 172<sup>nd</sup> St





# Evaluation of Network Changes

## Traffic Modeling Methodology

- NYC DOT built a comprehensive and detailed traffic model that includes all streets from Southern Blvd to Sheridan Expressway on E 172<sup>nd</sup> St and E 173<sup>rd</sup> St to analyze proposed conditions with the one-way conversions
- DOT used origin and destination trip-tracking software (Streetlight) to determine current travel patterns and apply them to proposed conditions with access to/from Sheridan Blvd

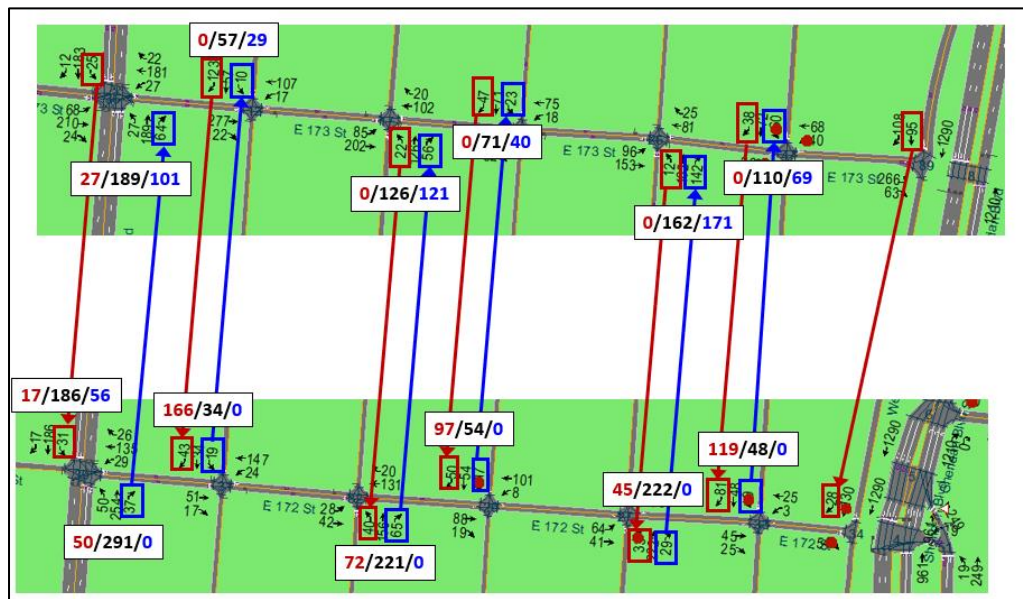
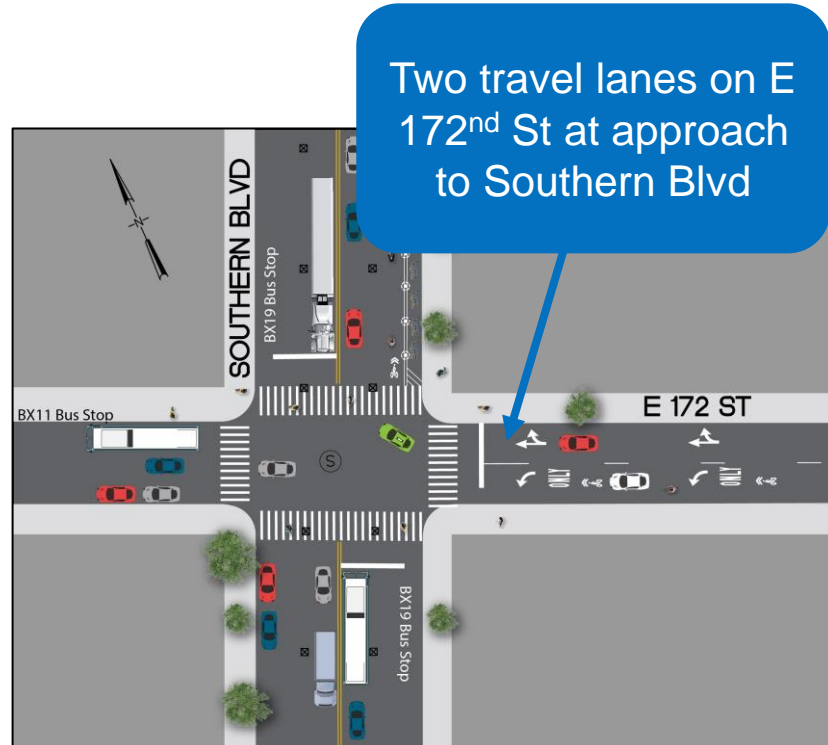


Image of model that DOT created to analyze impacts of one-way conversions



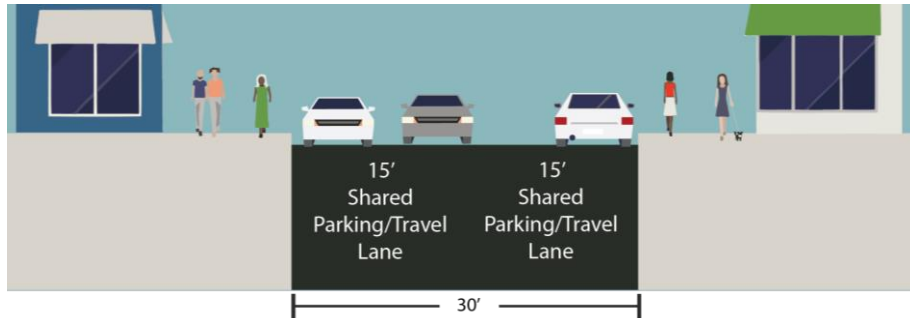
# Traffic Modeling and Design

- NYC DOT design accommodates projected volume changes to prevent significant traffic impacts
- Parking spots repurposed for 1 block approaching Sheridan Blvd and Southern Blvd to allow for additional travel lanes

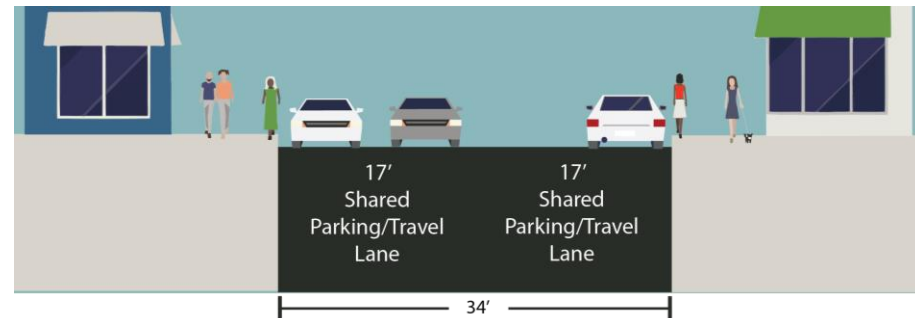


# Proposed Corridor Improvements

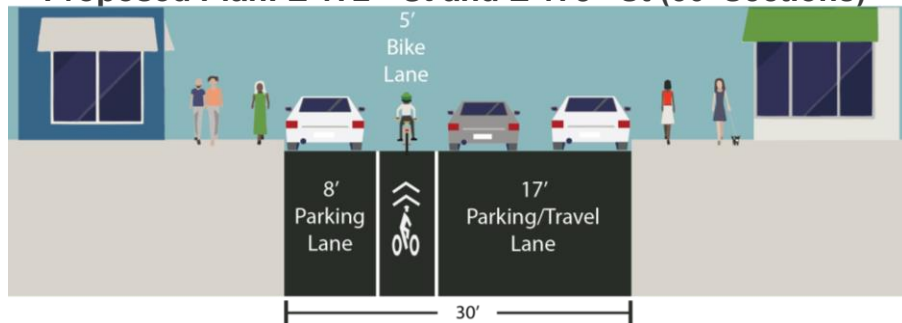
Existing Conditions: E 172<sup>nd</sup> St and E 173<sup>rd</sup> St (30' Sections)



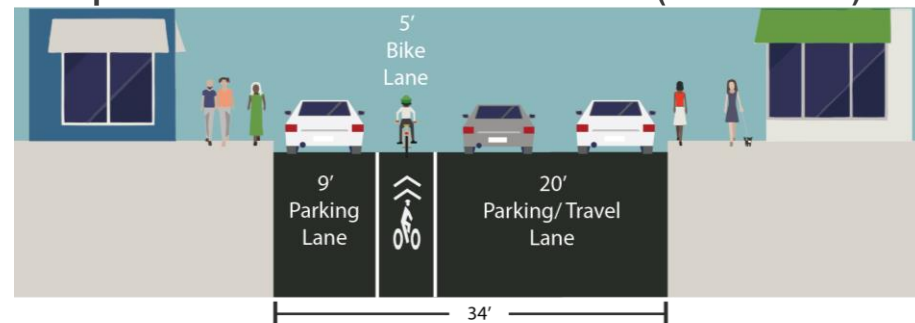
Existing Conditions: E 172<sup>nd</sup> St and E 173<sup>rd</sup> St (34' Sections)



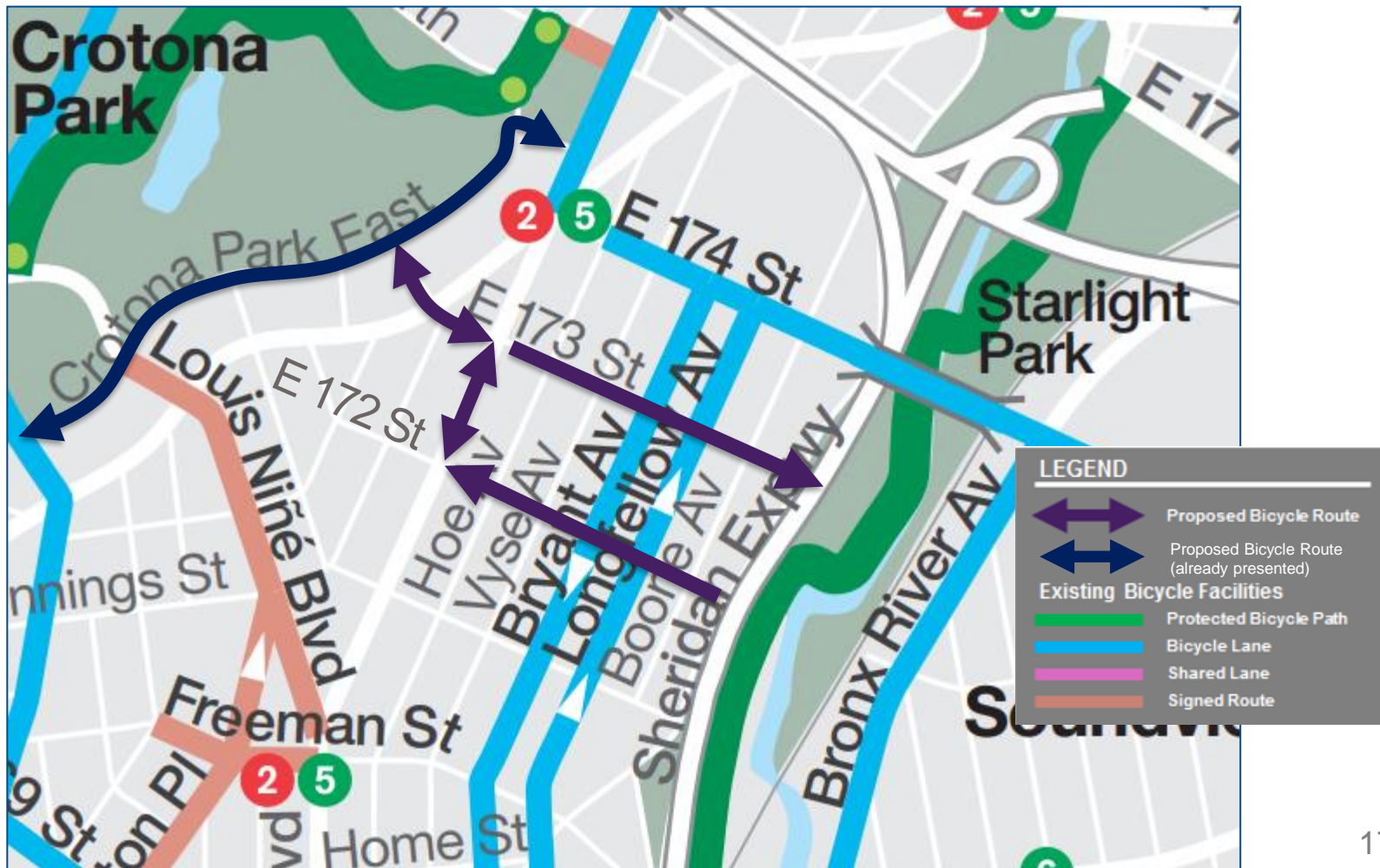
Proposed Plan: E 172<sup>nd</sup> St and E 173<sup>rd</sup> St (30' Sections)



Proposed Plan: E 172<sup>nd</sup> St and E 173<sup>rd</sup> St (34' Sections)



# Bike Route Connections



*Proposed standard bike lanes on E 172<sup>nd</sup> St and E 173<sup>rd</sup> St*



# Project Benefits

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- Improves connections to Starlight Park, Starlight Park Bridge, Bronx River Ave
- Reduces conflicts and improves clarity for vehicles
- Adds .6 miles of standard bike lanes to network
- Improve local access to Sheridan Blvd will reduce traffic congestion at adjacent intersections



# Thank You!

Questions?



NYCDOT



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