



EASTCHESTER RD, WATERS PL, & CONNECTIONS BICYCLE LANE NETWORK EXPANSION

Presented to Bronx Community Boards 11, 12
June 2021



PRESENTATION OVERVIEW

1. Background
2. **Proposal**
3. **Route Details**
4. Summary



Background

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OVERVIEW

Project Goals

- **Build** robust on-street bicycle network
- **Support** new scooter share riders and bicycle ridership growth
- **Improve** road safety for all road users
- **Create** new connections to key destinations:
 - Bronx Park
 - Pelham Bay Park
 - Pelham Gardens
 - Jacobi Medical Center
 - Bronx Behavioral Health Center
 - Bronx River, Mosholu-Pelham, and Hutchinson River Greenways



NYC Parks Imagery – Bronx Park

INTEREST IN IMPROVED BIKE & SCOOTER ACCESS IN THE BRONX

NYC Bicycle Ridership

- **24%** (nearly 1.6 million) of adult New Yorkers ride a bike regularly
- **540,000** daily cycling commuting trips in 2019

E-Scooter Pilot Anticipated increase in scooter ridership on commercial streets in the East Bronx

- **Phase I:** 2021 Northeast Bronx
 - **Eastchester Rd** outreach and start of implementation
- **Phase II:** 2022 Southeast Bronx

6,000 Scooters to be deployed within East Bronx Pilot Zone (2021 – 2022)

E-Scooter Pilot:

NYC DOT collaboration with Bird, Lime and Veo to deploy dock less E-Scooters in pilot zone



Green Wave A Plan for Cycling in New York City



Analysis of fatalities – key findings (2014 - 2019):

- Nearly **90% of fatalities** happened on streets **without bike lanes**
- **60% of fatalities** happened at **intersections**
 - 23% involved a vehicle turn
 - 16% involved a driver's failure to yield the right of way

Green Wave Plan:

Citywide Protected Bike Lane Network:

- Build **30 miles of protected bicycle lane** annually
- Build **75 miles of bicycle infrastructure** in **10 Bicycle Priority Districts** (7 in Brooklyn, 3 in Queens) by 2022

Better Design:

- Implement **new design standards** based on national & international best practice **to enhance safety at intersections**
- Continue piloting new designs with rigorous safety analysis

Education and Outreach:

- Launch next phase of **Vision Zero public awareness campaign**, **educating drivers with a focus on cyclist safety** and expand the "Get There" bicycle encouragement/rules of road campaign.
- Educate all street users about safe truck operation on city streets
- **Increase helmet giveaways and helmet use encouragement**

NYPD Enforcement

- **Target enforcement on highest risk activities:** speeding, failing to yield, blocking bike lanes, oversized trucks/trucks off route

SAFETY – Protected Bike Lanes

Street designs that include protected bike lanes increase safety for all users

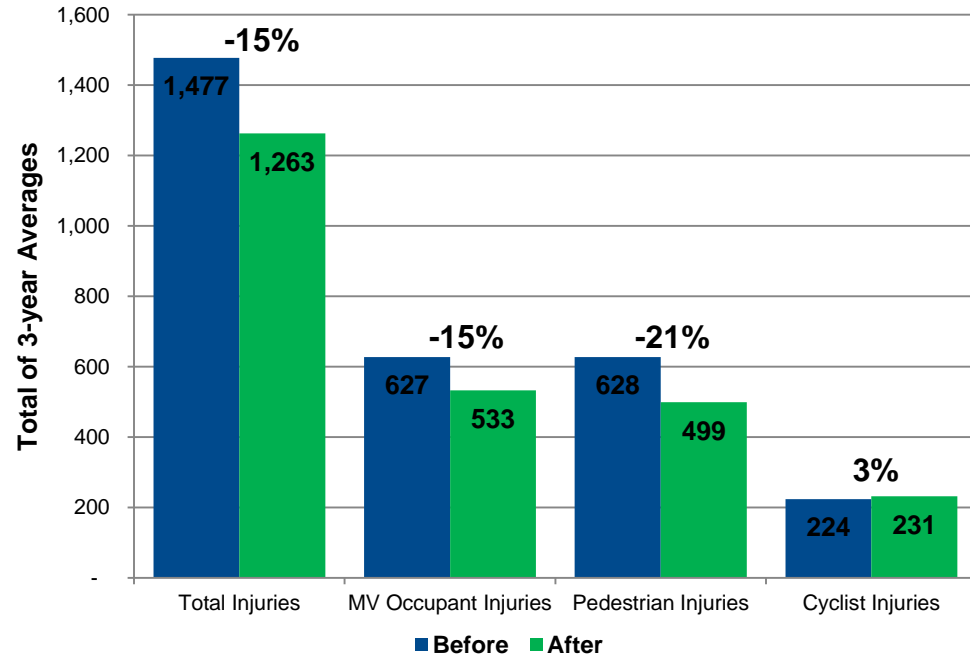
- 15% drop in all crashes with injuries
- 21% drop in pedestrian injuries

on streets where protected bike lanes were installed 2007-2017

Injuries to cyclists increase only 3%,
despite a 61% bike volume increase

Protected Bike Lanes

Before and After Crash Data, 2007 - 2017



Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow Ave, Imlay St / Conover St, Paerdegat Ave. Only sections of projects that included protected bike lanes were analyzed.
Source: NYPD AIS/TAMS Crash Database

BICYCLE ROUTE SELECTION

Existing Bicycle Lane Network

- Connections to Parks, Greenways
- Standard and shared bike network in Williamsbridge, Allerton and Morris Park (Laconia Av, Burke Av, Morris Park Ave)
- Difficult to access some destinations (Bronx Zoo, Pelham Bay Park)

Street Network Issues

- Discontinuous streets & irregular street grid
- Narrow street widths
- Lack of north-south bicycle routes in Baychester, Pelham Gardens

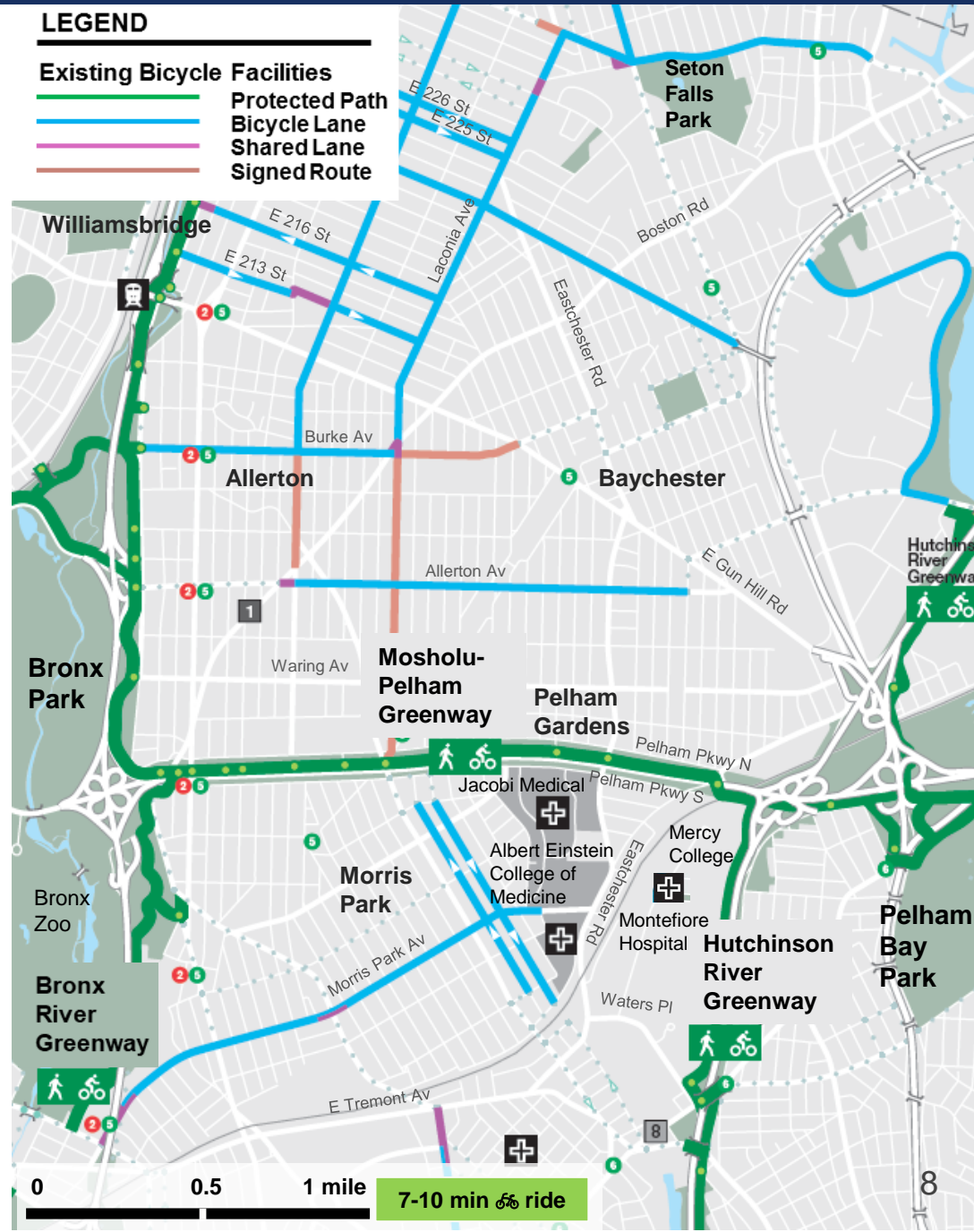
Area Destinations

Parks: Pelham Bay, Seton Falls, & Bronx Parks

Transit: Williamsbridge

Schools: Albert Einstein College of Medicine, Mercy College, Yeshiva University Medical

Hospitals: Jacobi Medical, Bronx Behavioral Health Center, Montefiore Hospital, Calvary Hospital, NYC Children's Center hospital



PROJECT HISTORY

2009

Safe Streets for Seniors Program installed standard bike lanes on Allerton Ave and intersection improvements at Eastchester Rd

2010-14

Safety Project installed wide parking lanes on Laconia Ave, E 233rd, Bronxwood Ave, Burke Ave and standard bike lanes on E 222nd St.

2017

Bicycle Network Improvements provided bike access to Shoelace Park with bike lane upgrades on Laconia Ave, E 233rd, St Bronxwood Ave, Burke Ave, E 213 St , E 216 St , E 225 St and E 226 St.

2021

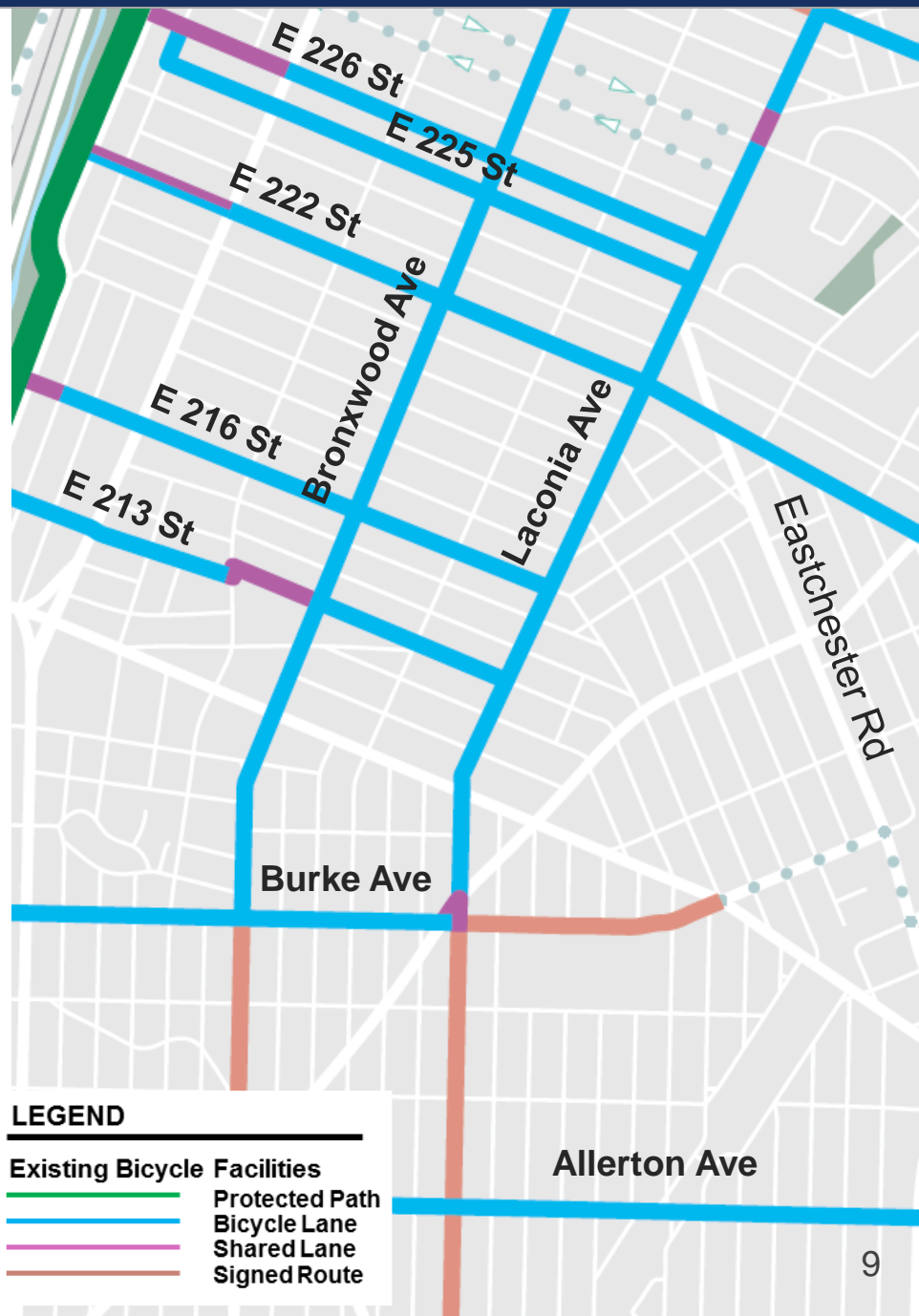
E-Scooter pilot to expand bicycle infrastructure in the East Bronx in response to growing ridership for commercial uses

2021

Project development and outreach

2021-22

Potential implementation



Shared Bicycle Lanes

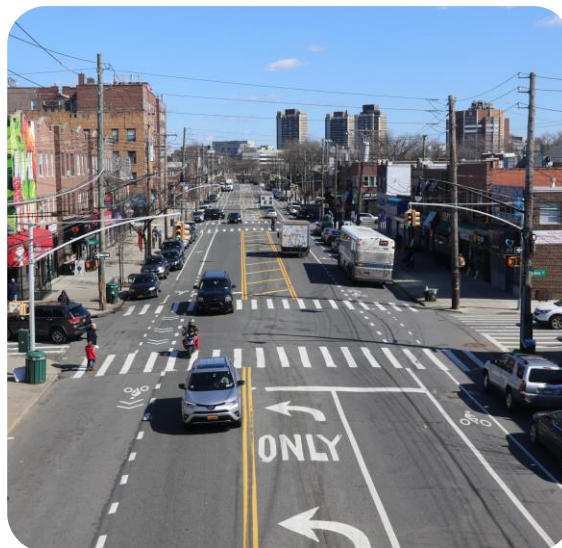


Edgcombe Ave, Wash. Heights.

Sharrow markings guide cyclists where to ride on the street

- **Alert drivers & cyclists of shared space**
- **Provide wayfinding for cyclists**
- **Guide cyclists away from car doors**

Standard Bicycle Lanes



Morris Park Ave, BK

Striped bicycle lane provides dedicated space in the road

- **Discourage speeding** by visually narrowing the road
- **Increase predictability** by clearly defining road space for each user

Protected Bicycle Lanes



Avenue V, BK

Striped bicycle lane protected by bollards or floating parking

- **Maximizes traffic calming** by physically narrowing roadways
- **Increases safety for all road users** by shortening crossing distances for pedestrians, & separating people driving and biking

Proposal

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PROJECT LOCATION AND GOALS

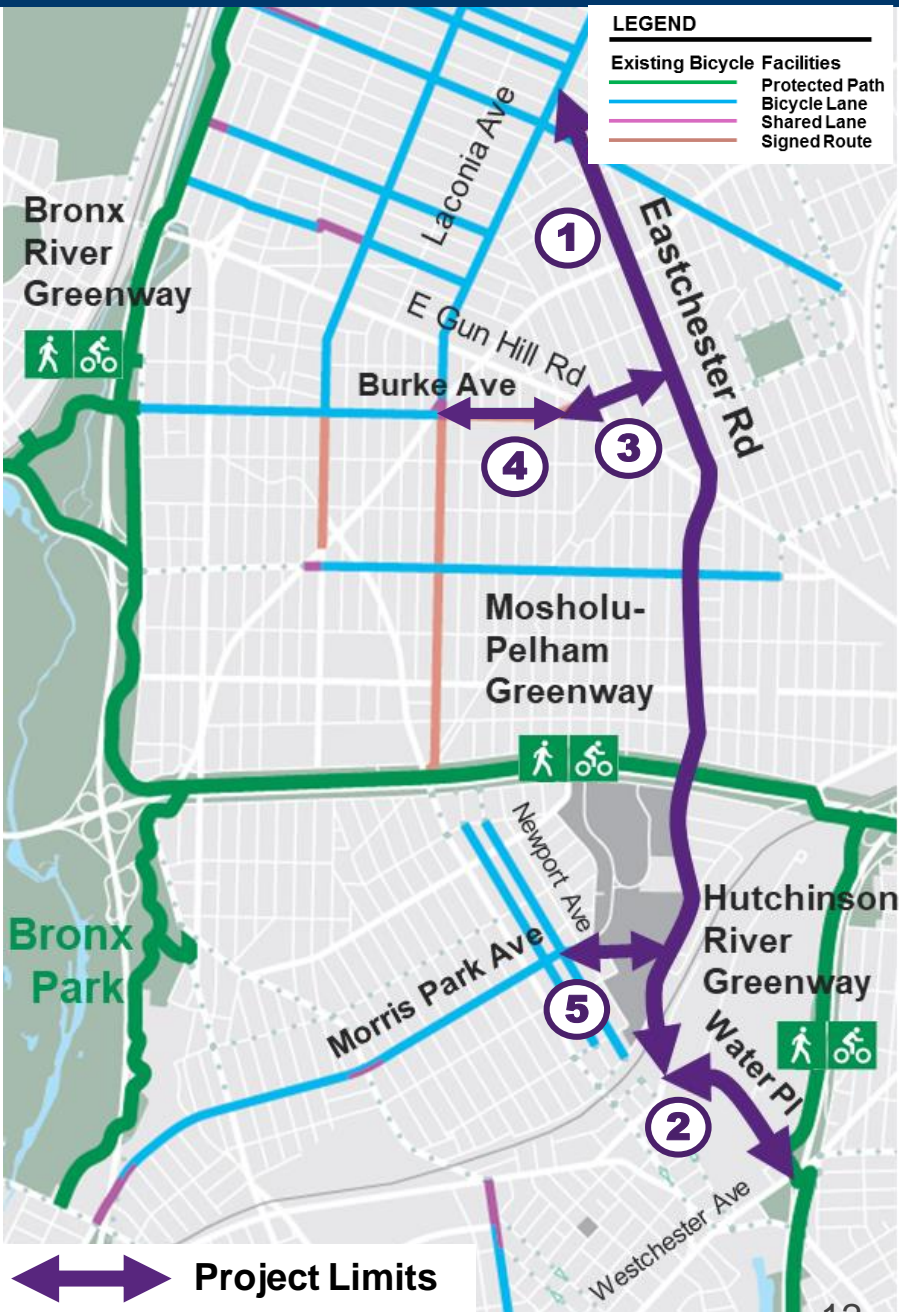
Create Protected Bike Lane Connections

- Create **essential protected bike lane connections** to fill gaps in the protected bike network in the East Bronx and to respond to the expected rise in scooter ridership
- Build new connections between hospitals & healthcare facilities
- Create new connections to Bronx River Greenway, Mosholu-Pelham Greenway & Hutchinson River Greenway

Proposed Routes

- ① **Eastchester Rd** (Laconia Ave – Waters Pl)
- ② **Waters Pl** (Eastchester Rd – Westchester Ave)
- ③ & ④ **Burke Ave** (Eastchester Rd – Laconia Ave)
- ⑤ **Morris Park Ave** (Newport Ave – Eastchester Rd)

Goals:
Increase Safety for All Road Users & Support Bicycle & Scooter Ridership

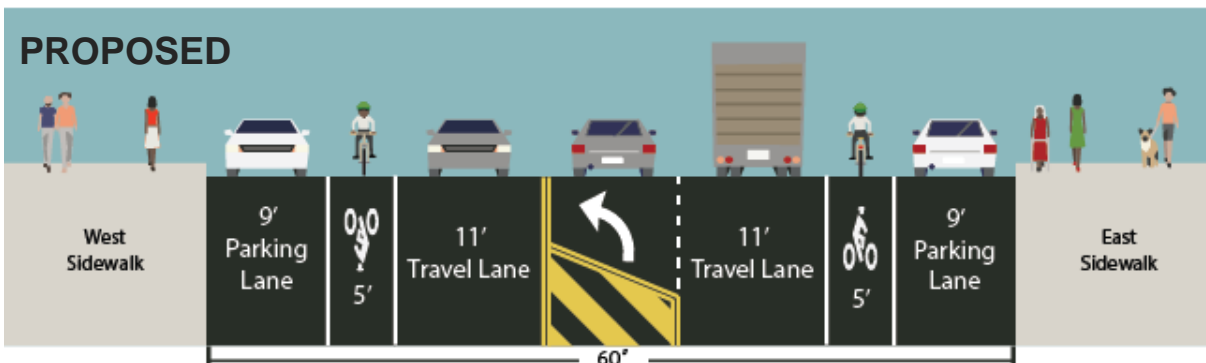
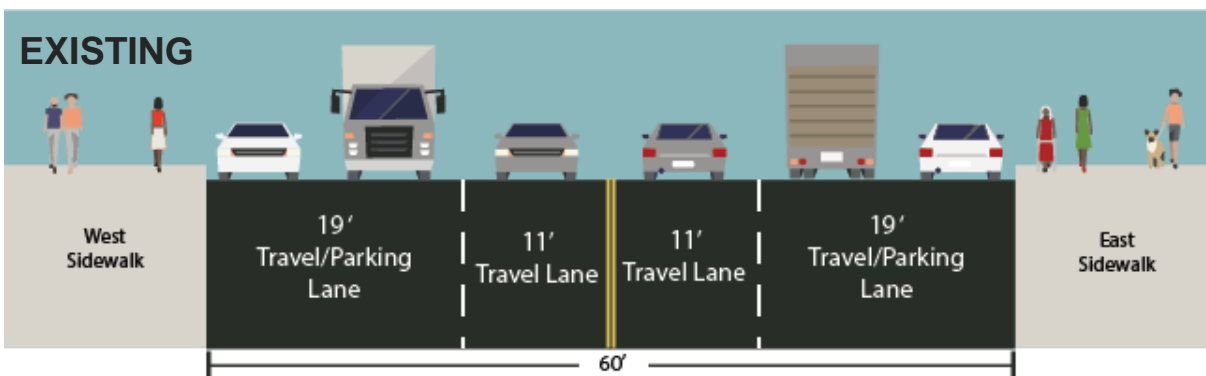


1A EASTCHESTER RD: Laconia Ave to Pelham Pkwy N

Organize roadway markings to discourage speeding and provide dedicated space for cyclists

Standard Bicycle Lanes

- Establish one travel lane in each direction and create standard width travel and parking lanes
- Provide dedicated space for cyclists
- Establish dedicated left turn lanes and painted median
- Provide connections to existing bike network at Laconia Ave and to the Mosholu-Pelham Greenway

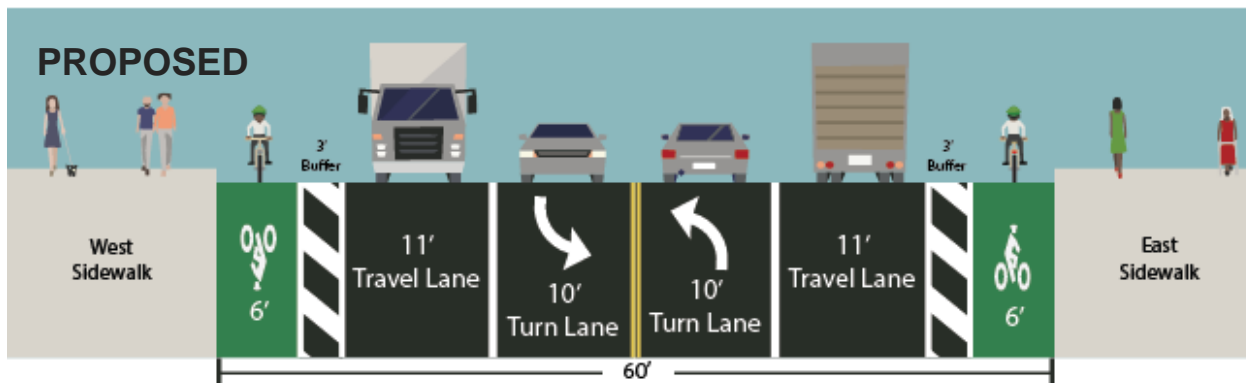
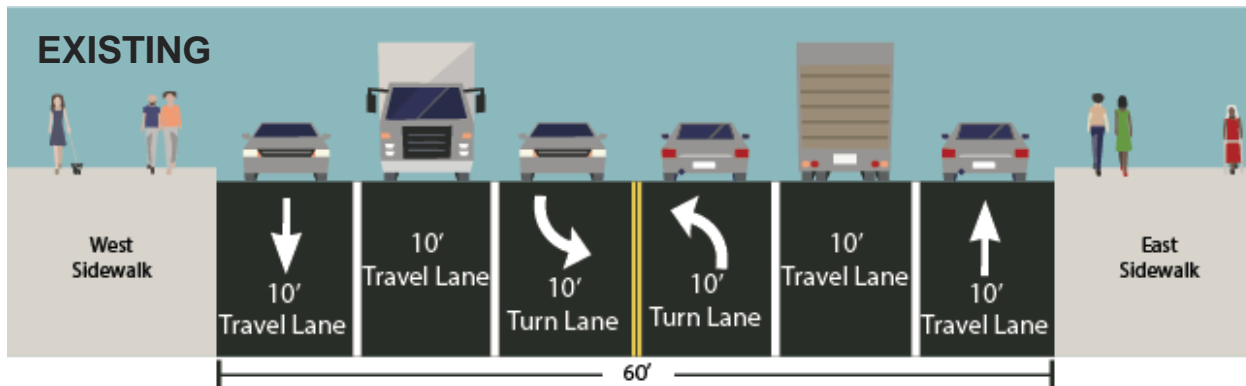
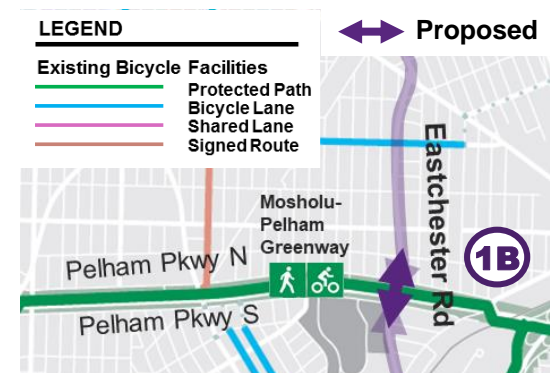


1B EASTCHESTER RD: Pelham Pkwy N to Pelham Pkwy S

Provide dedicated space for cyclists

Curbside Buffered Bike Lanes

- Establish one travel lane in each direction
- Provide curbside, dedicated space for cyclists
- Create standard width travel and parking lanes
- Connect cyclists to Mosholu-Pelham Greenway



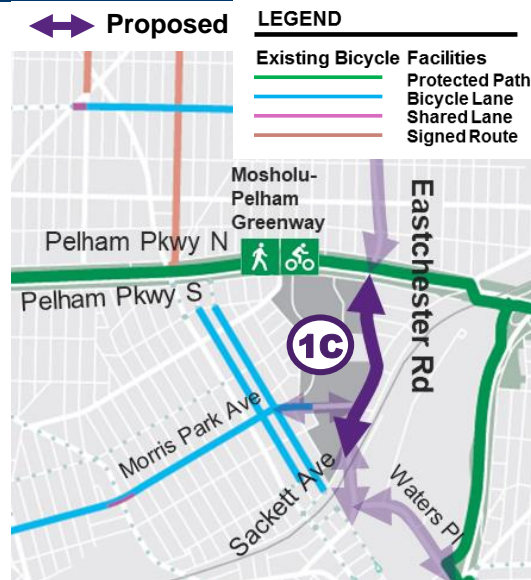
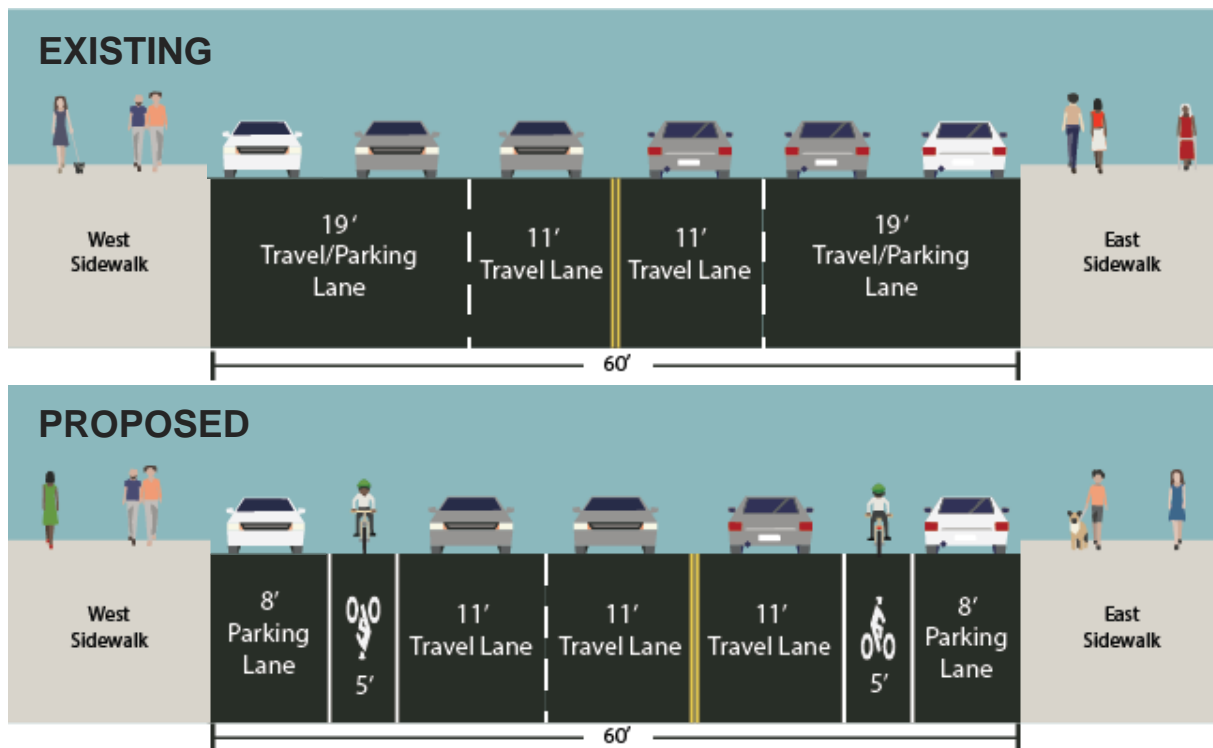
Example: Southern Blvd, BX

1C EASTCHESTER RD: Pelham Pkwy S – Sackett Ave

Organize roadway markings and provide bike connections to greenway

Standard Bicycle Lanes

- Establish one northbound travel lane
- Provide dedicated space for cyclists
- Create standard width travel and parking lanes
- Connect cyclists to Mosholu-Pelham Greenway
- No parking loss. Maintains curb access and parking at facilities on west curb

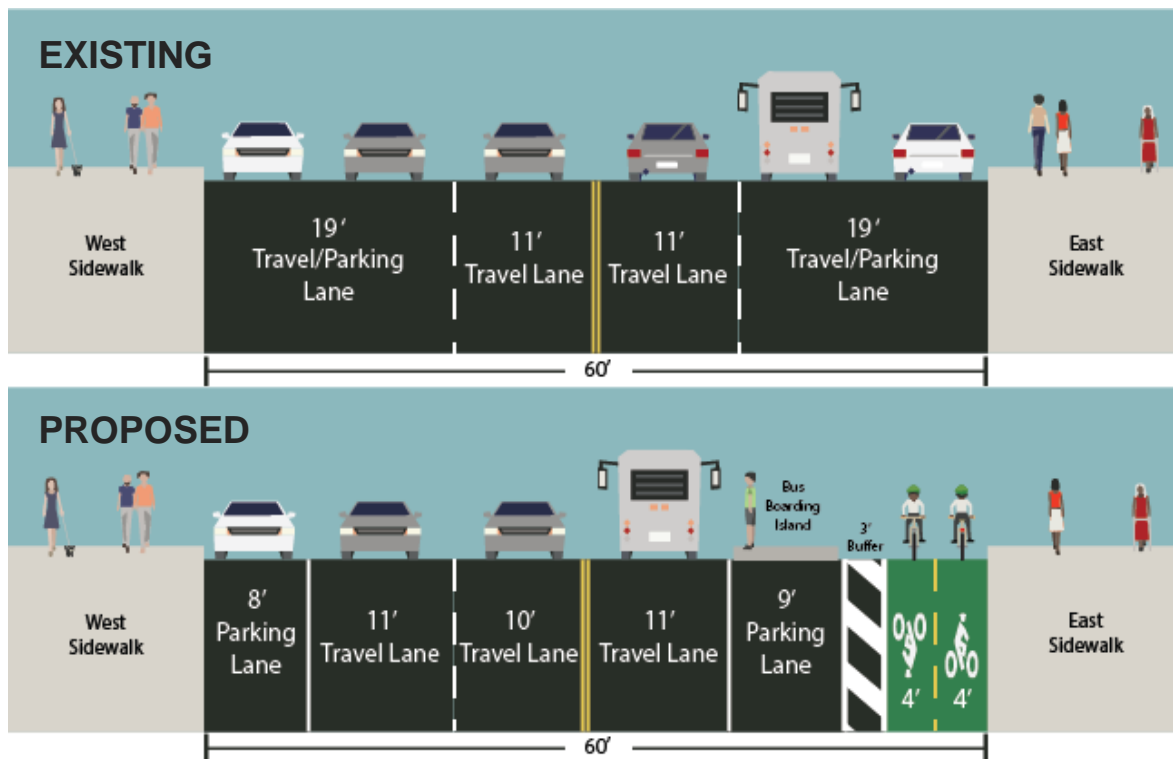


1D EASTCHESTER RD: Sackett Ave – Waters PI

Organize roadway markings and provide bike connection to greenway

Parking Protected Bicycle Path

- Establish one northbound travel lane
- Provide two-way, parking protected bike path
- Create standard width travel and parking lanes
- Install new bus boarding islands at existing stops
- Provide connection to Waters PI

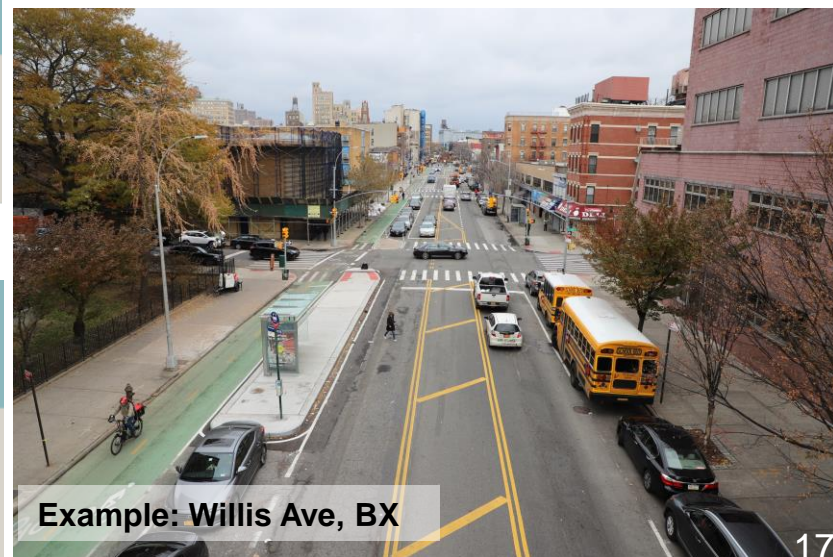
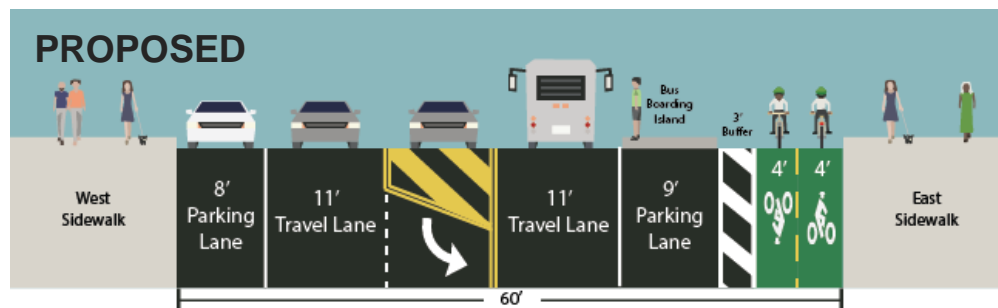
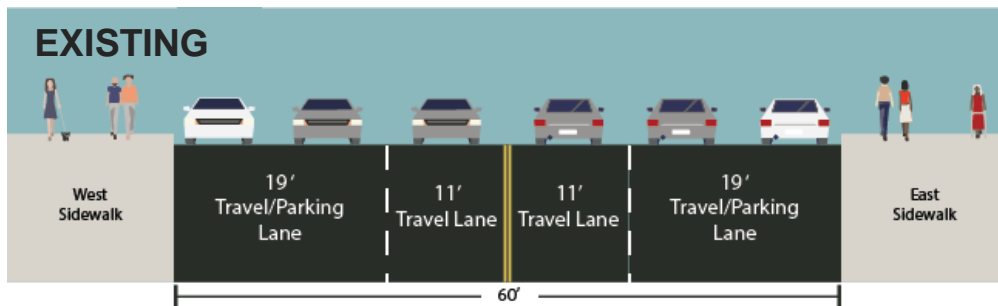


② WATERS PL: Eastchester Rd to Westchester Ave

Organize roadway markings and provide bike connection to greenway

Parking Protected Bicycle Path

- Travel lane changes:
 - One northbound travel lane between Marconi St and Bronx State Hospital Entrance
 - One travel lane in each direction between Hospital Entrance and Fink Ave
- Provide two-way, parking protected bike path
- Create standard width parking and travel lanes
- Install new bus boarding islands at existing stops
- Connect cyclists to Hutchinson River Greenway at Westchester Ave

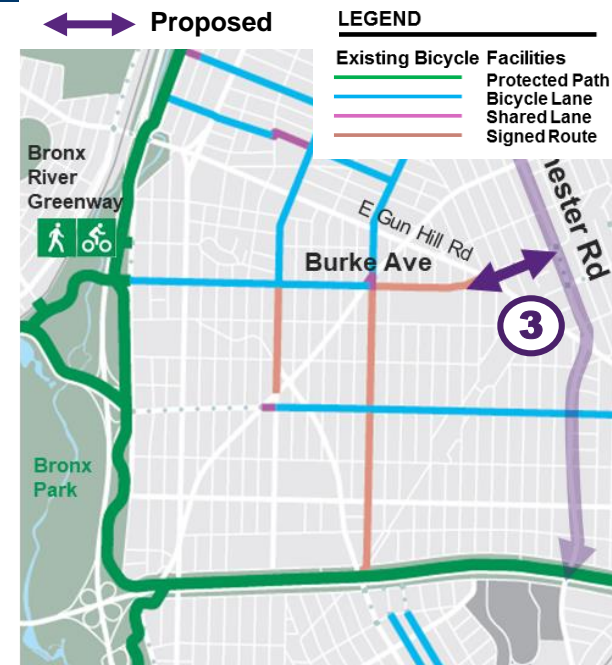
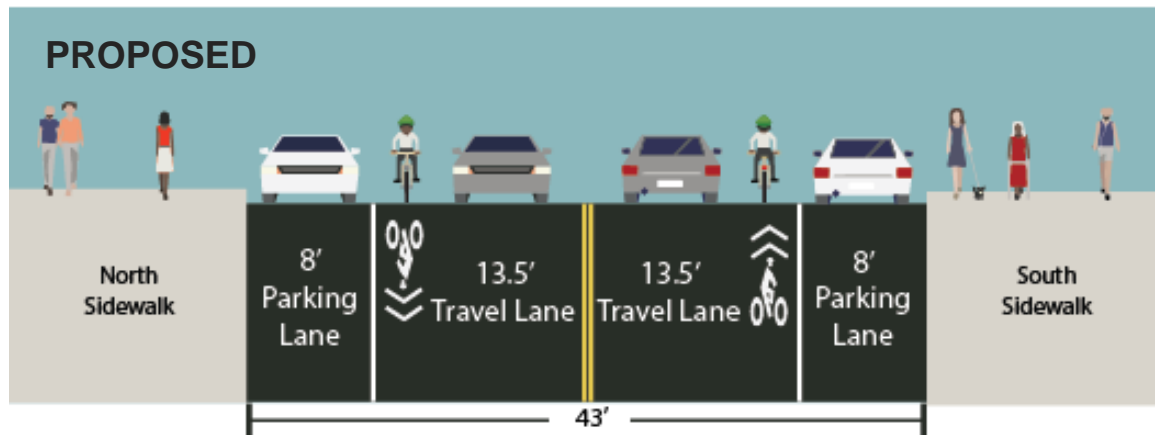
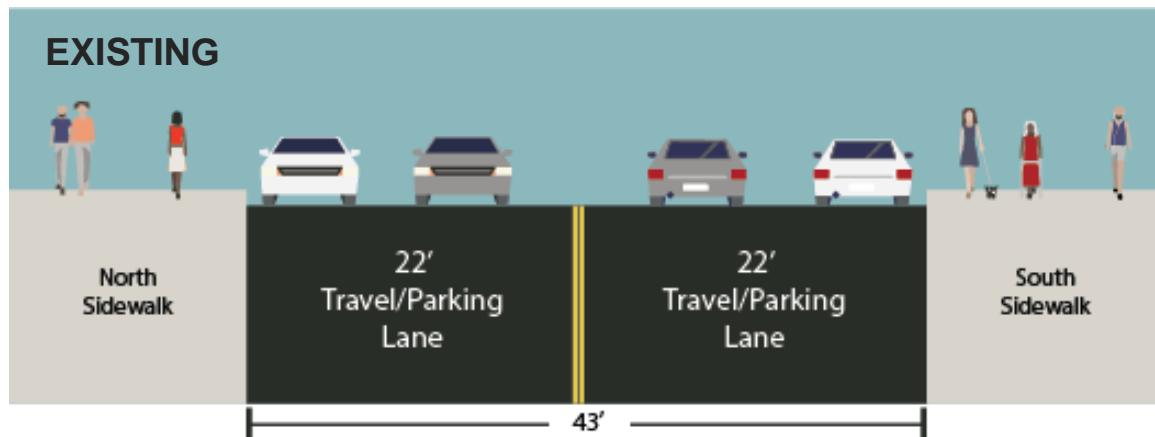


③ BURKE AVE: Eastchester Rd to E Gun Hill Rd

Organize roadway markings and provide bike connections to parks and greenway

Shared Bicycle Lanes

- Create standard width parking lanes
- Guide cyclists with shared lane markings
- Connect cyclists to Bronx River Greenway and Bronx Park

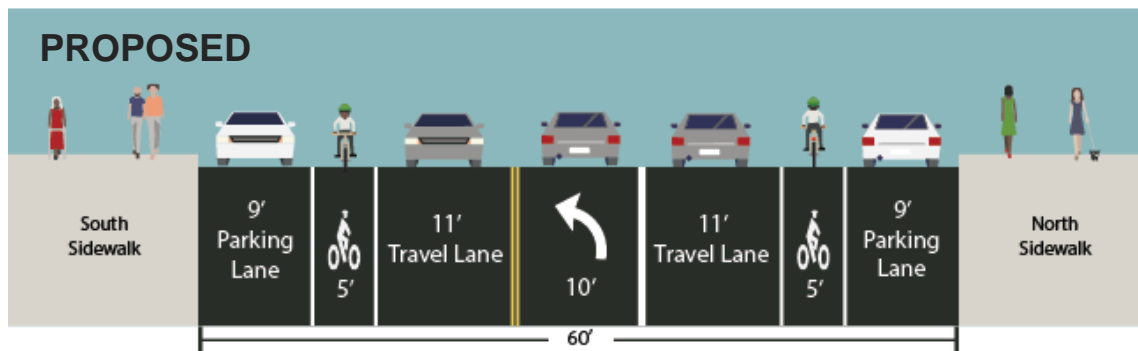
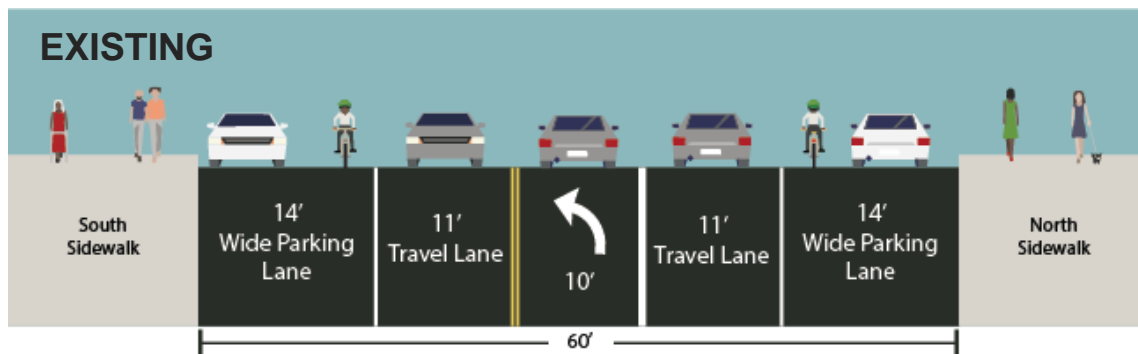


④ BURKE AVE: E Gun Hill Rd to Laconia Ave

Organize roadway markings and provide bike connections to parks and greenway

Standard Bicycle Lanes

- Provide dedicated space for cyclists
- Create standard width parking lanes
- Connect cyclists to Bronx River Greenway and Bronx Park

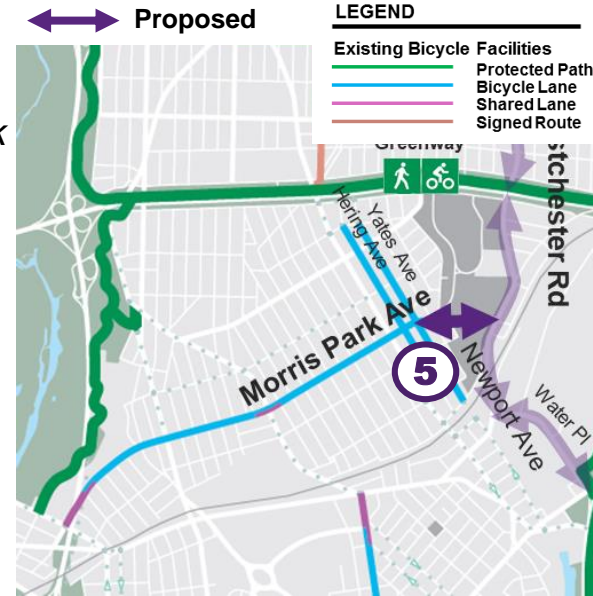
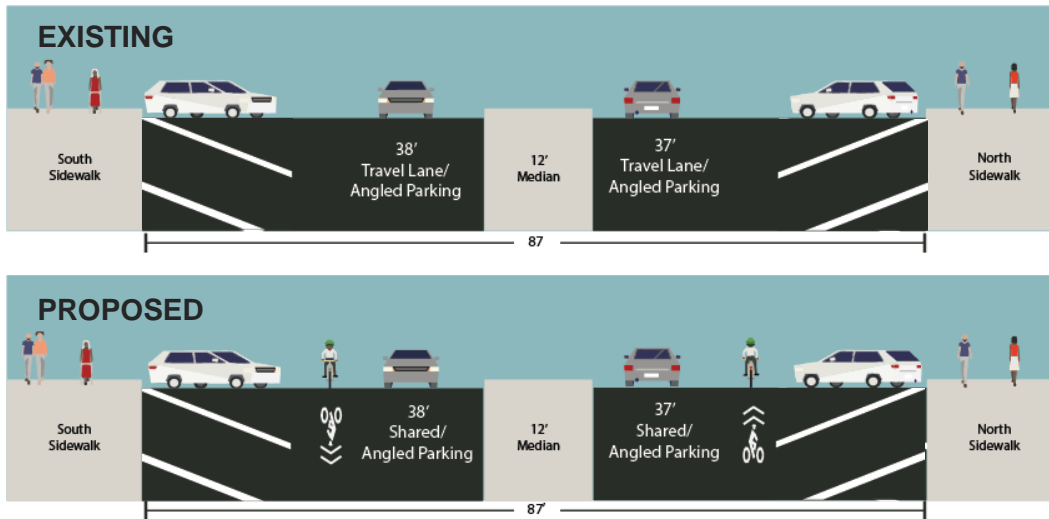


⑤ MORRIS PARK AVE: Newport Ave to Eastchester Rd

Organize roadway markings and provide connections to existing bike network

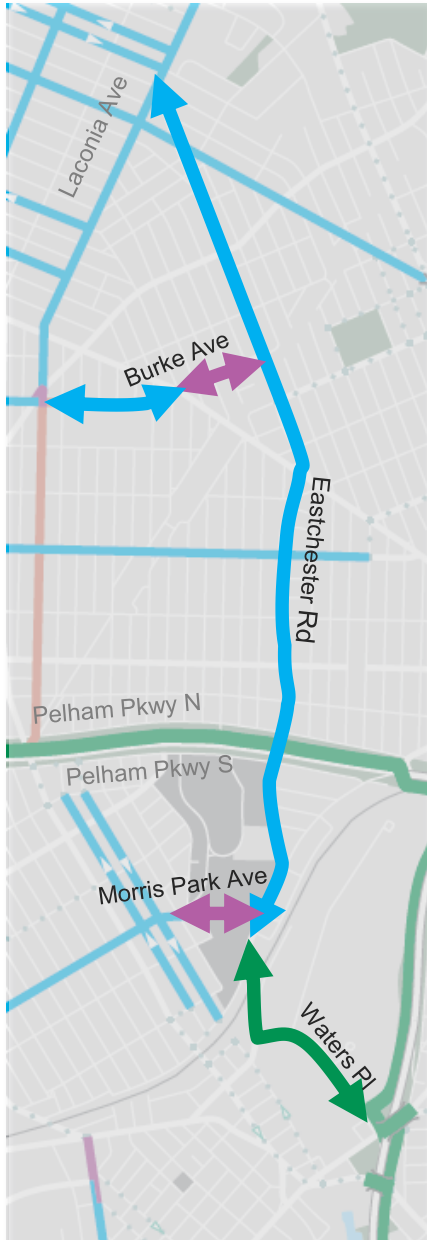
Shared Bicycle Lanes

- Maintain existing angled parking and travel lanes
- Guide cyclists with shared lane markings
- Connect cyclists to existing bike lanes on Morris Park Ave, Hering Ave and Yates Ave



Example: Edgemoor Ave, MN

OVERVIEW OF STREET DESIGN



Parking-Protected Bike Path

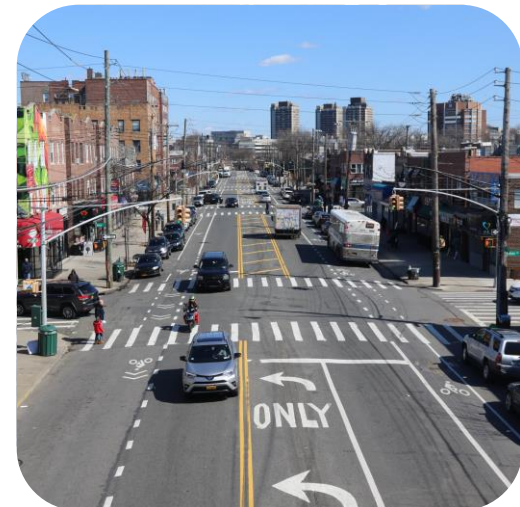


- Conventional Bike Lane
- Parking-protected Bike Lane
- Shared Bike Lane

Shared Bike Lanes



Conventional Bike Lanes



Making It Work

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OVERVIEW OF PEDESTRIAN IMPROVEMENTS

Painted Pedestrian Island & Offset Crossing



Concrete Bus Island



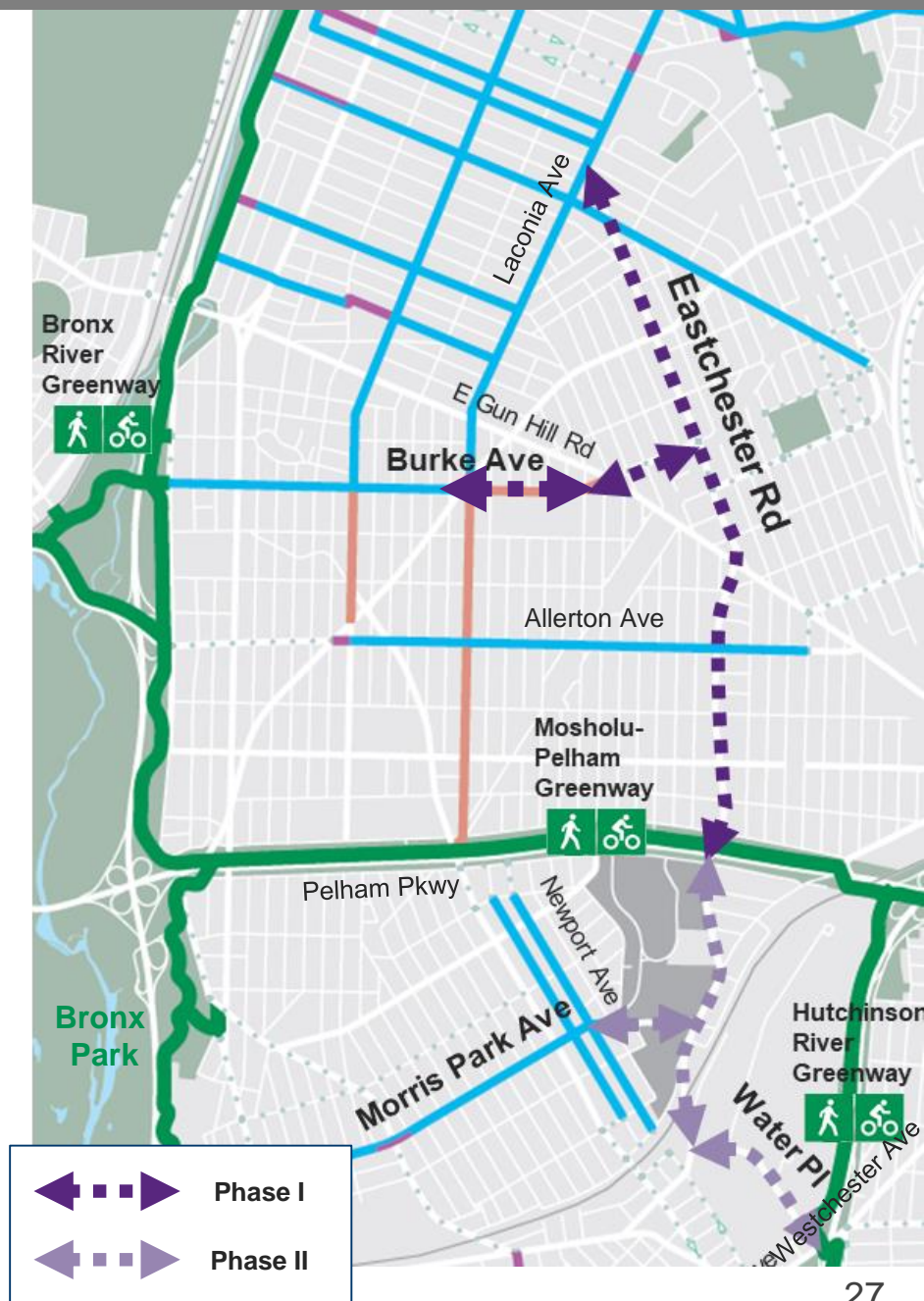
Summary

PROJECT TIMELINE

Eastchester Rd, Waters Pl and Burke Ave, Morris Park Ave Connections improve safety and provide access to major destinations including schools hospitals, greenways and parks.

2021 Outreach to CB 11 and 12 to be potentially followed by implementation:

- **Phase I: 2021**
 - Traffic calming and standard bike lanes on Eastchester Rd between Laconia Ave and Pelham Pkwy
 - Connections to existing bike network and Bronx River Greenway on Burke Ave
 - Connection to Bronx River and Mosholu-Pelham Greenways
- **Phase II: 2022**
 - Standard and protected bike lanes on Eastchester Rd between Pelham Pkwy and Water Pl
 - Protected bike lanes on Water Pl from Eastchester Rd to Westchester Ave
 - Connection to Hutchinson River Greenway



THANK YOU!

Questions?



NYC DOT



NYC DOT



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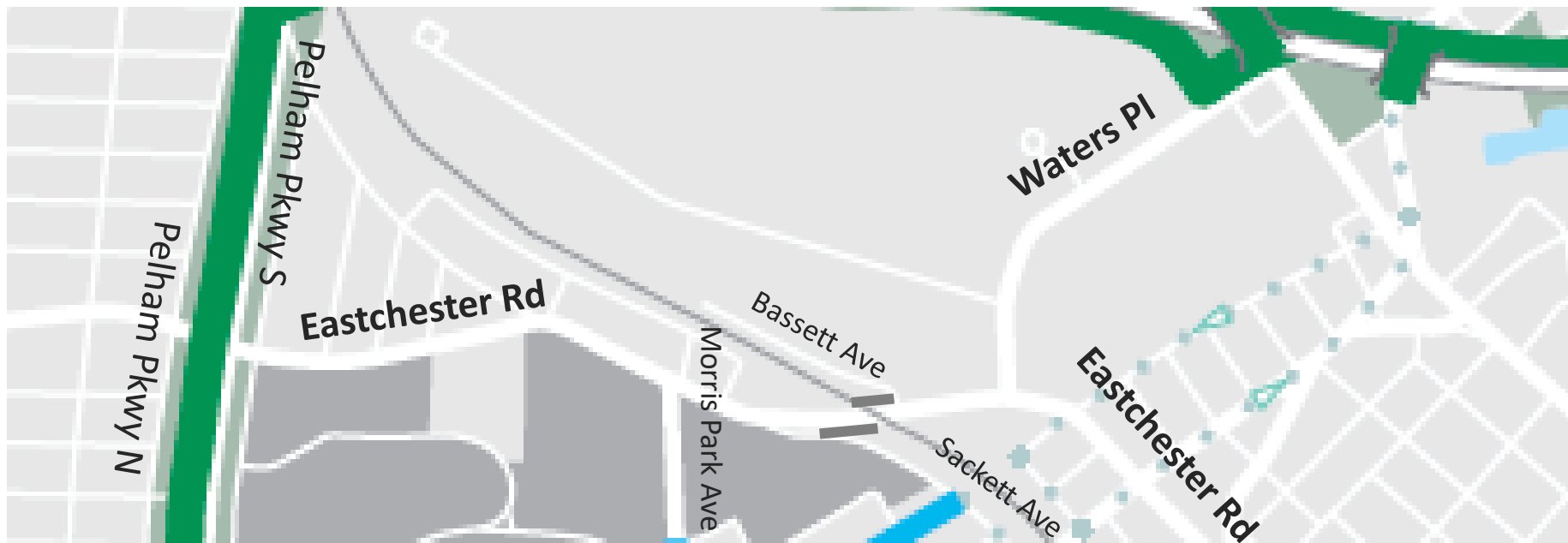


NYC DOT

Appendix

CURB MANAGEMENT – PARKING CHANGES

Parking Removal



Proposed Parking Removal

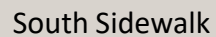
- **Removal of approximately 28 parking spaces** between Sackett and Bassett Ave
- Parking removal works to improves visibility for both vehicles and cyclists underneath overpass
- Parking to be maintained on Waters Pl and remaining segments of Eastchester Rd

Driveways

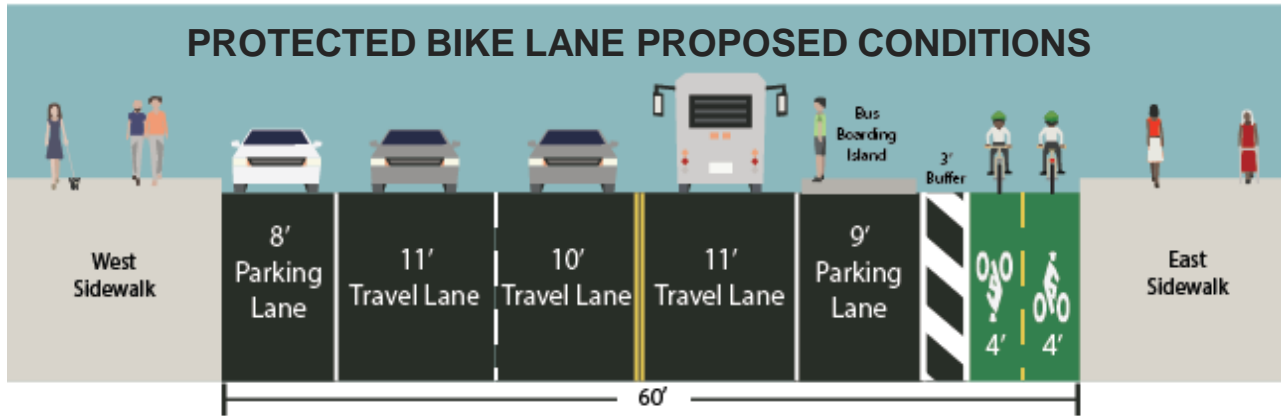
- ## Curb Access

- ## Curb Management Tools

-



BUS STOP INTERACTIONS: EASTCHESTER RD, WATERS PL



Protected Bike Lane Design at Bus Stops

- **Bus stops are maintained at existing locations along Eastchester Rd and Waters Pl**
- Buses stop at proposed bus boarding islands instead of pulling to the curb
- At bus stops, protected bike lane design changes to indicate to cyclists that they must yield to pedestrians and boarding passengers

BUS STOP INTERACTIONS

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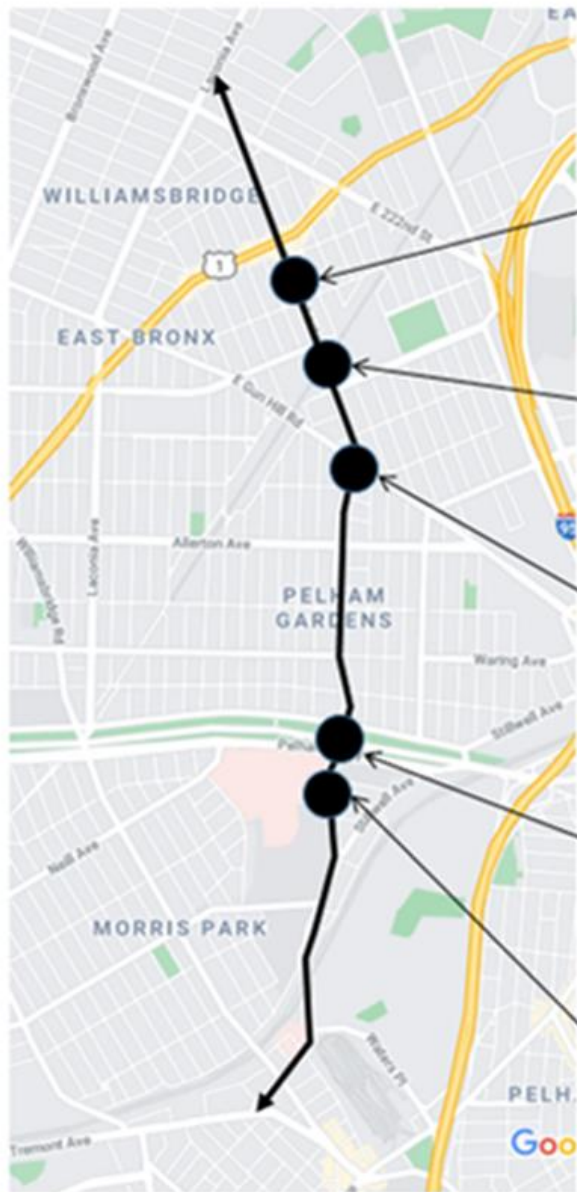


Standard Bike Lane Design at Bus Stops

- **Bus stops are maintained at existing locations along Eastchester Rd**
- At bus stops, standard lane design becomes shared to indicate to cyclists of bus movement and to allow them to

T

TRAFFIC DATA



Sept 2017 - ATR
Givan Ave to Tillotson Ave
 548 NB, 476 SB

Oct 2020 - ATR
Givan Ave to Tillotson Ave
 523 NB, 383 SB

June 2016 - ATR
 Burke Ave to Hammersley Ave
 578 NB, 435 SB

June 2015 - TMC
 Gun Hill Rd
 356 NB, 333 SB

Nov 2017 - TMC
 Pelham Pkwy
969 NB, 690 SB

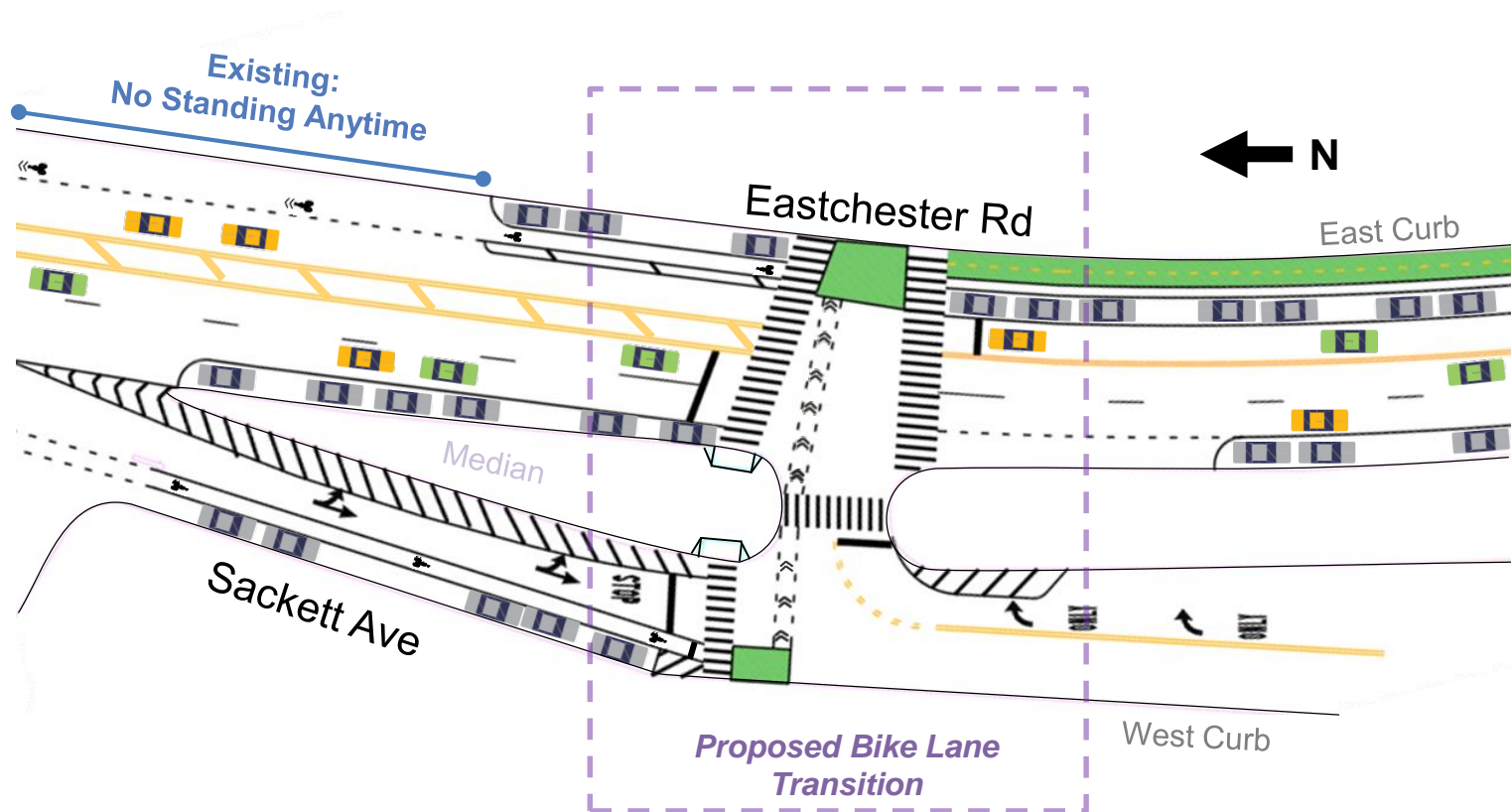
Jan 2019 - ATR
 Rhinelander Ave to McDonald St
 554 NB, **1157** SB

Existing Conditions

- **Ongoing traffic analysis of current traffic conditions**
- **Low through traffic on Eastchester Rd** between Laconia Av and Pelham Pkwy
 Predominately residential land uses on both curbs north of Pelham Pkwy
- **Volumes increase at Pelham Pkwy N and south of Pelham Pkwy S**
 Multiple land uses and destinations: commercial, residential, hospitals
 Northbound volumes lower south of Pelham Pkwy, potential lane removal to be analyzed

SACKETT AVE – BIKE LANE TRANSITION

Conceptual Diagram for Illustrative Purposes



Standard Bike Lane to Parking Protected Bicycle Path

- Create dedicated space for cyclists to queue at Sackett Ave and Eastchester Rd
 - Option 1: Provide dedicated space using paint and roadway markings
 - Option 2: Provide dedicated space to cyclists on northern median
- Provide signalizations for cyclists or expand ped ramps at median to accommodate cyclists
- Connect cyclists to two-way path along Eastchester Rd south of Sackett Ave