

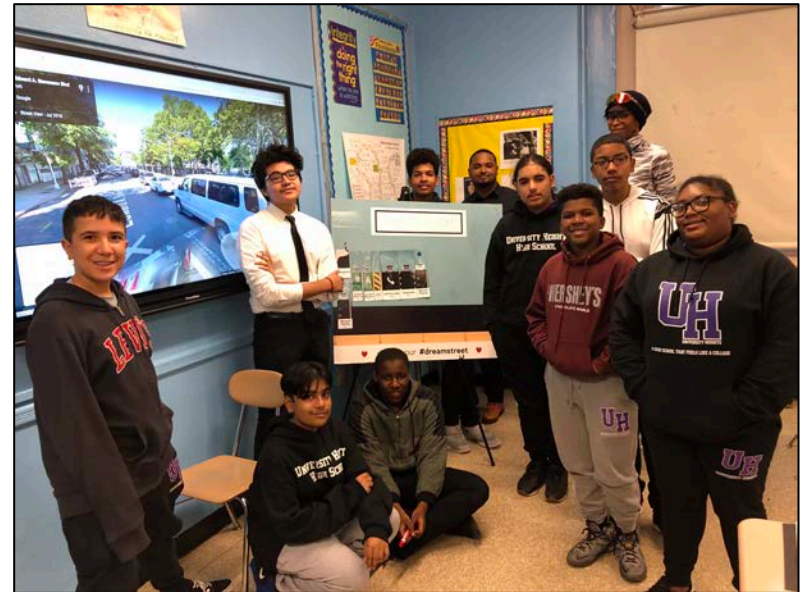


Morrisania School Safety Improvements

Presentation for Bronx Community Board 3
February 9, 2021

Partnership: DOT School Safety & I Challenge Myself

- DOT School Safety & the I Challenge Myself (ICM) afterschool program have partnered to develop proposed safety improvements for Morrisania area
- School Safety & ICM have met for a series of field meetings and design workshops



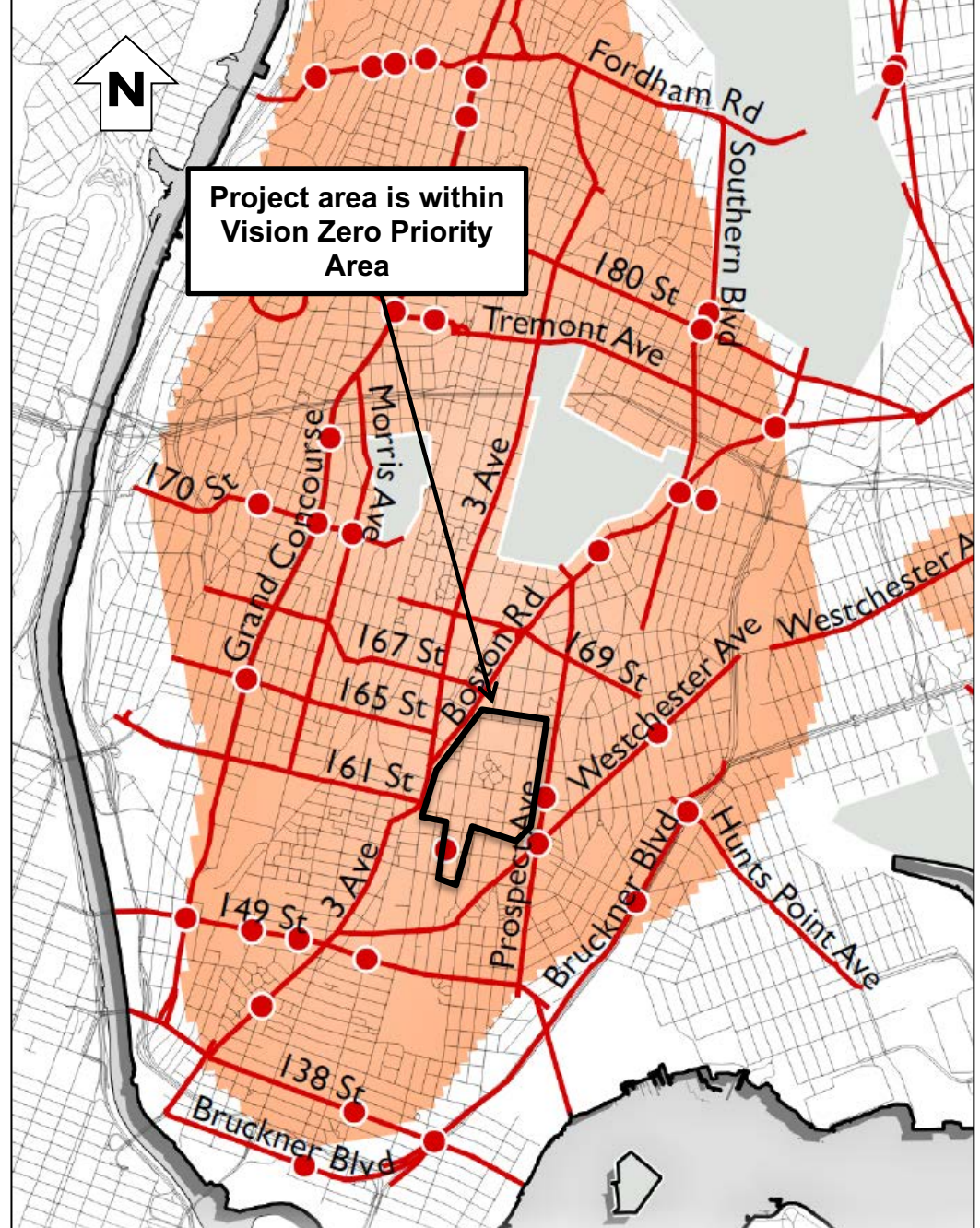
Morrisania School Safety Improvements

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2019
- Priority Intersections, Corridors, and Areas identified for each borough

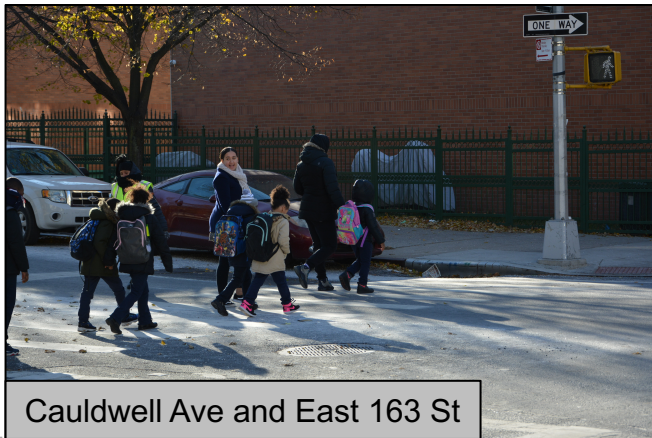
Morrisania Area

- Entire project area is within a Vision Zero Priority area

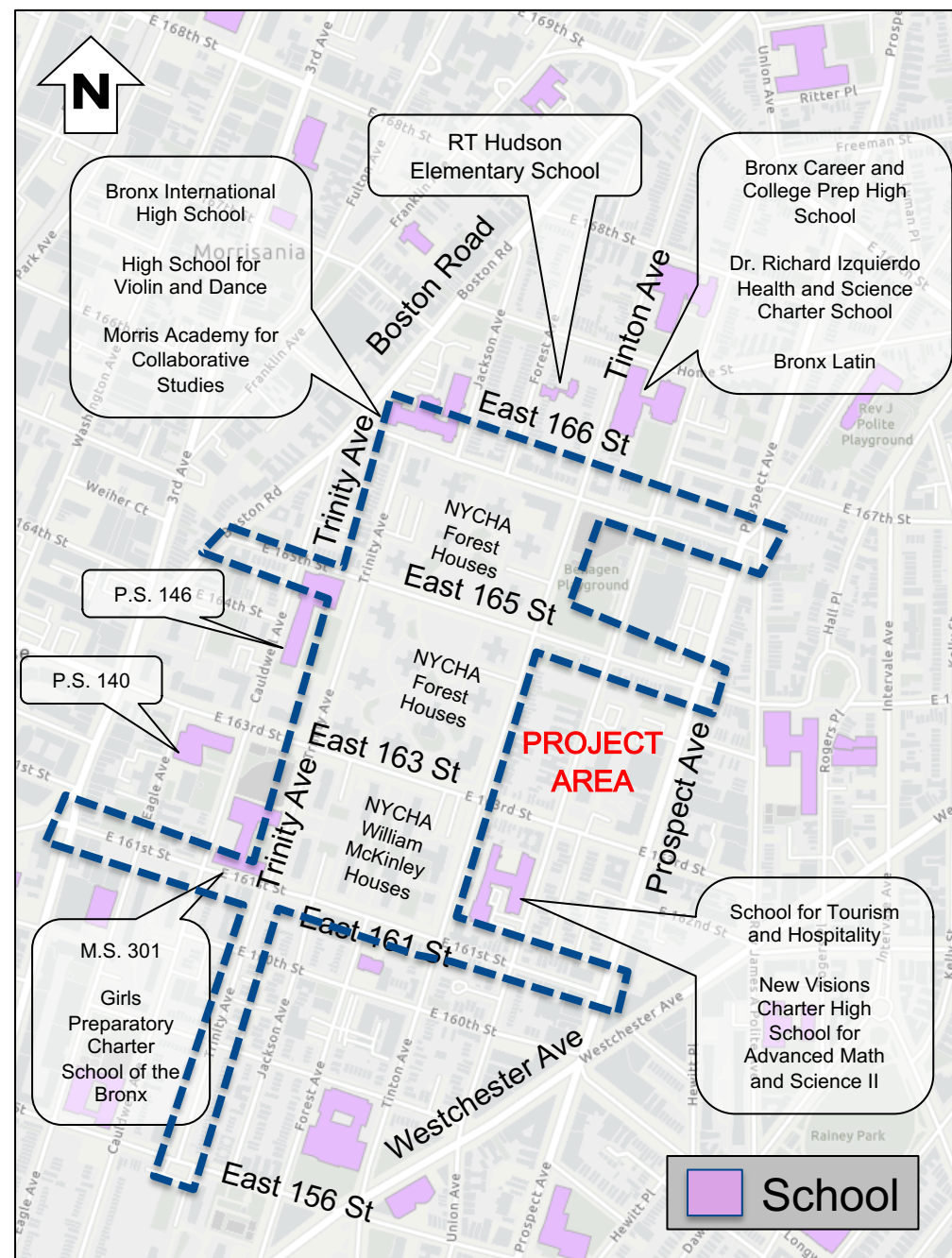


Project Area

- Project area used by students accessing nearby schools
- Community request for angle parking on Trinity Ave
- Wide streets with low traffic volumes
- Dense residential area, Including Forest Houses and William McKinley Houses



Cauldwell Ave and East 163 St



Morrisania School Improvements

Crash Data (2014-2018)

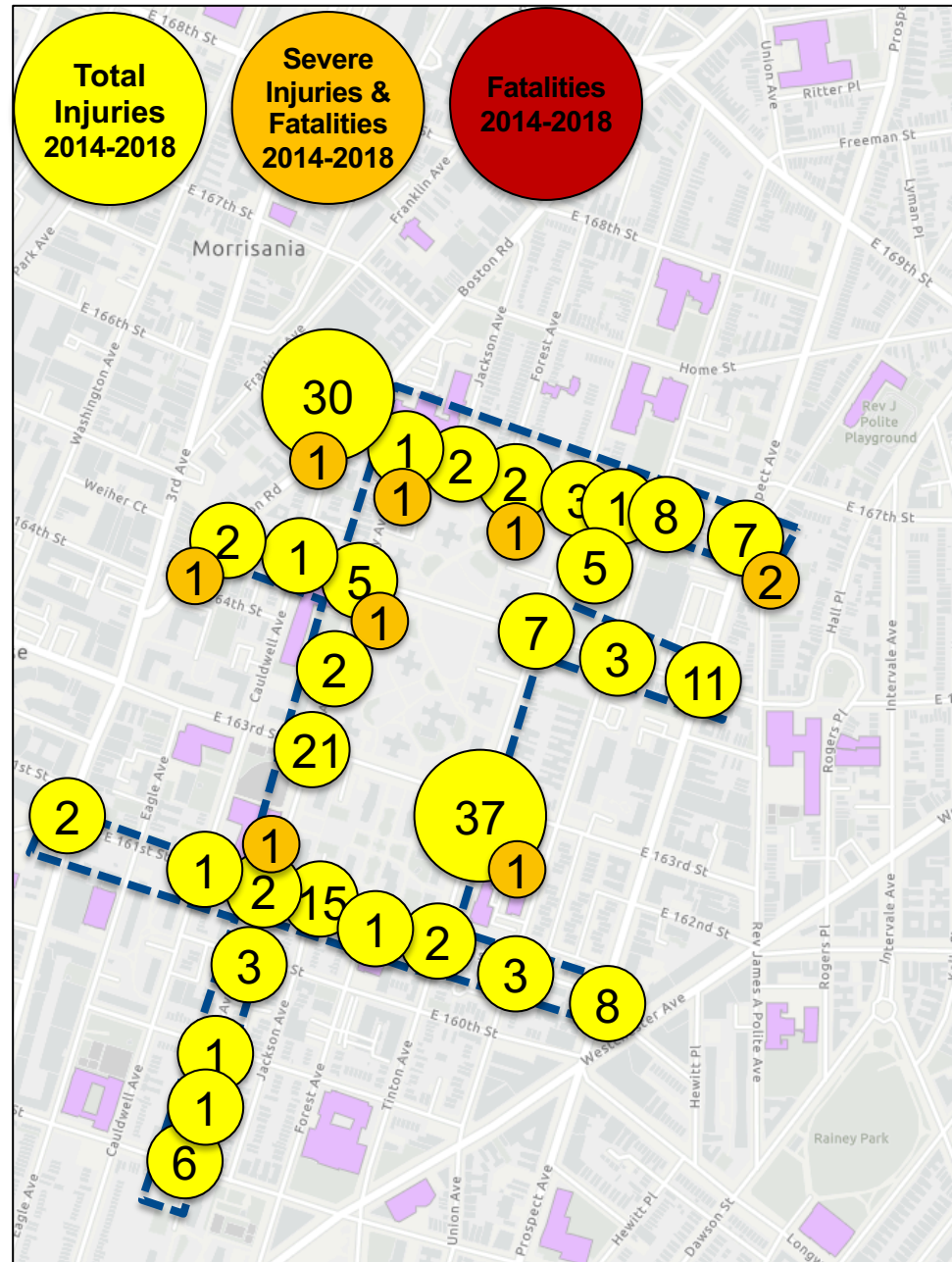
- 201 total injuries
- 9 severe injuries
- 56% of severe injuries were pedestrians

Injury Summary, 2014-2018 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	47	5	0	5
Bicyclist	11	1	0	1
Motor Vehicle Occupant	143	3	0	3
Total	201	9	0	9

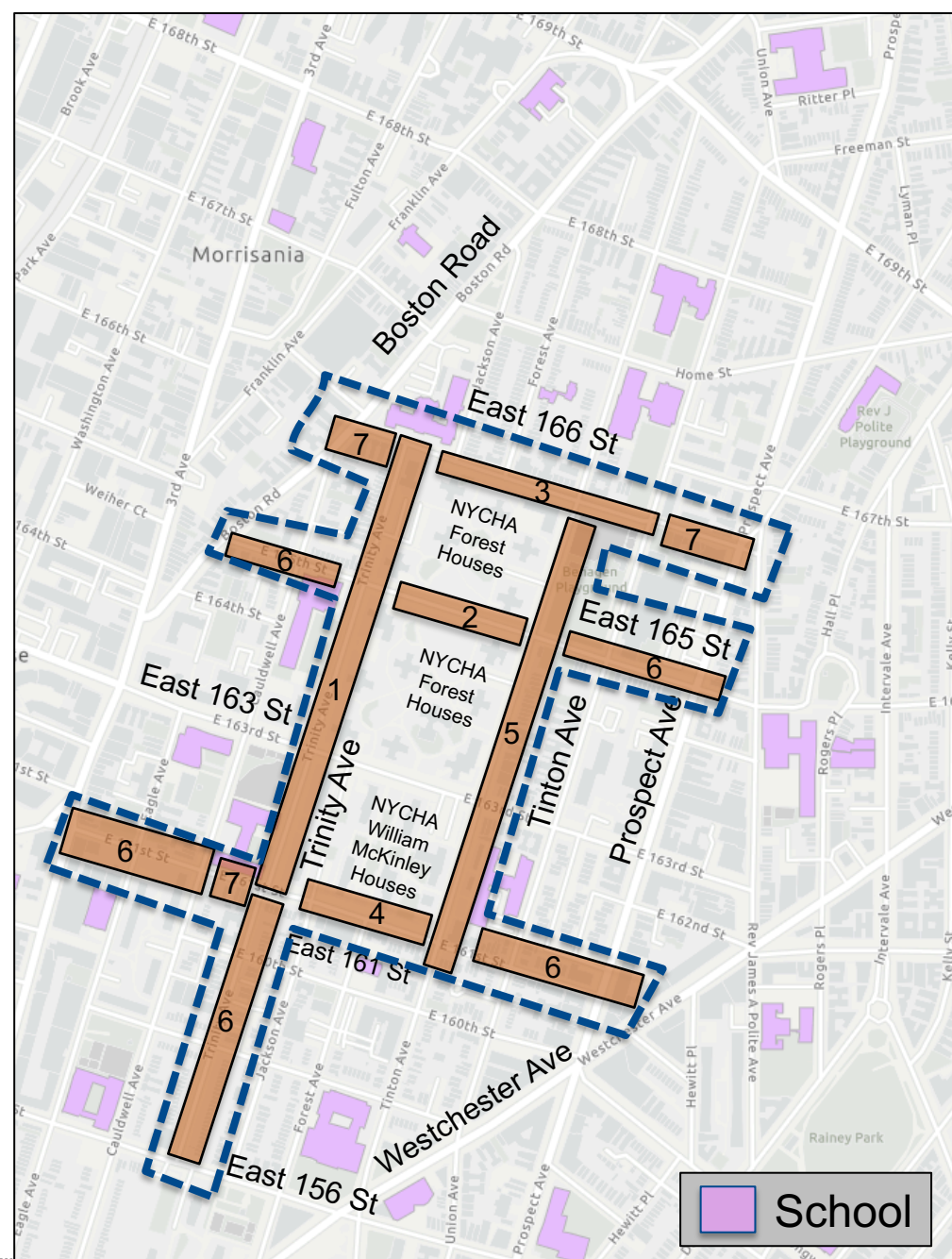
Source: Fatalities: NYCDOT, Injuries: NYSDOT KSI: Persons Killed or Severely Injured

Map does not include total or severe injuries that occurred at midblock locations. Data is based off of NYSDOT/NYS DMV crash and injury data available as of 1/2021

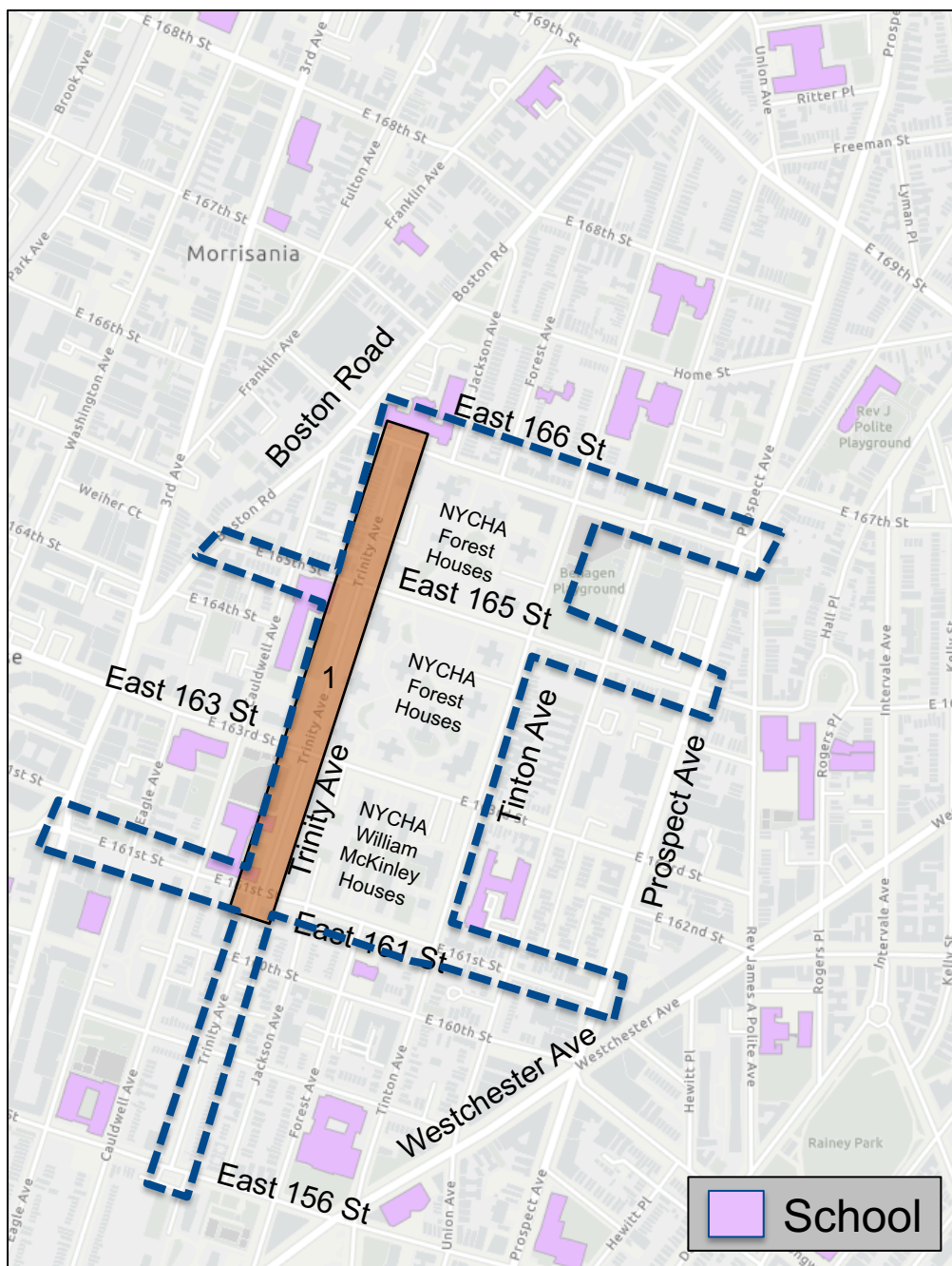


Morrisania School Safety Improvements

Presentation Overview

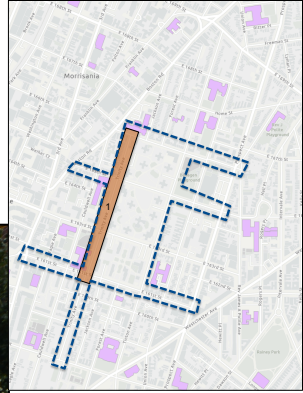


Trinity Ave, E 166 St to E 161 St



Trinity Ave, East 166 St to East 161 St

Existing: Wide Streets With Unpredictable Movements

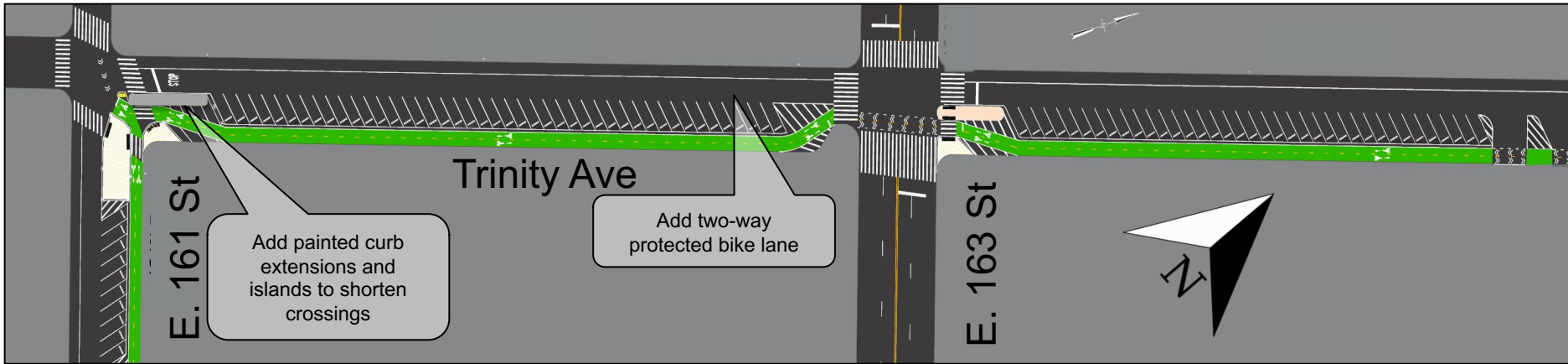
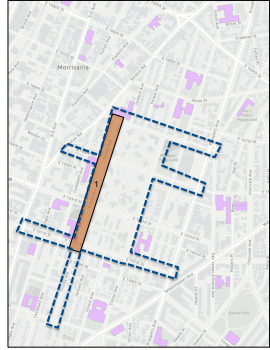


Trinity Ave at East 163 St, looking north

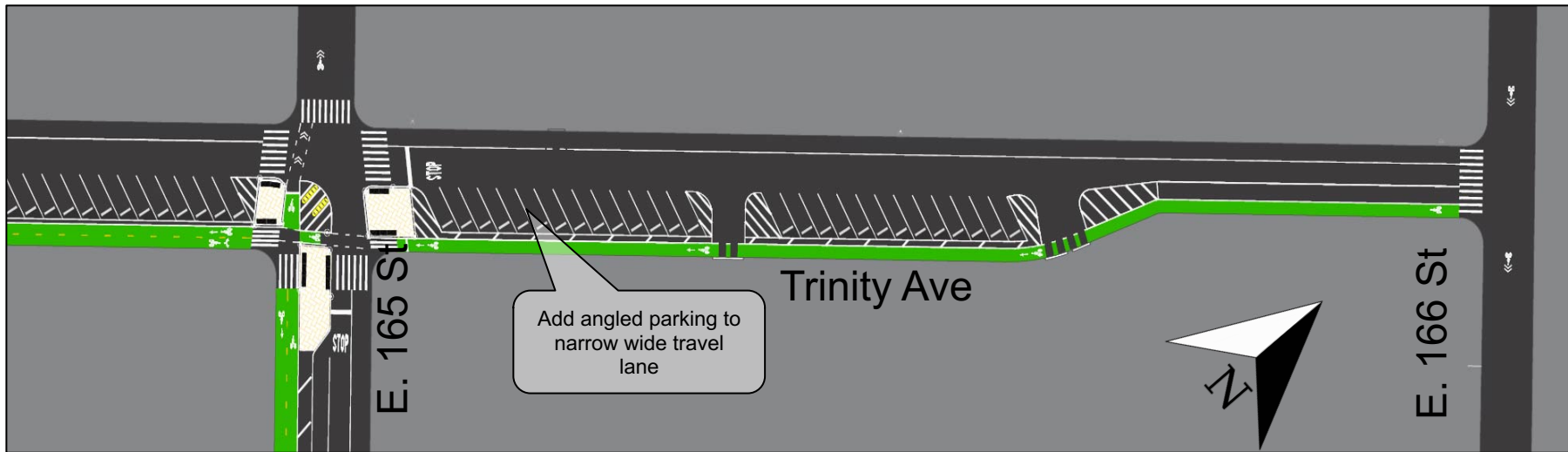
ICM student conducting speed study

Trinity Ave, East 166 St to East 161 St

Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions And Islands

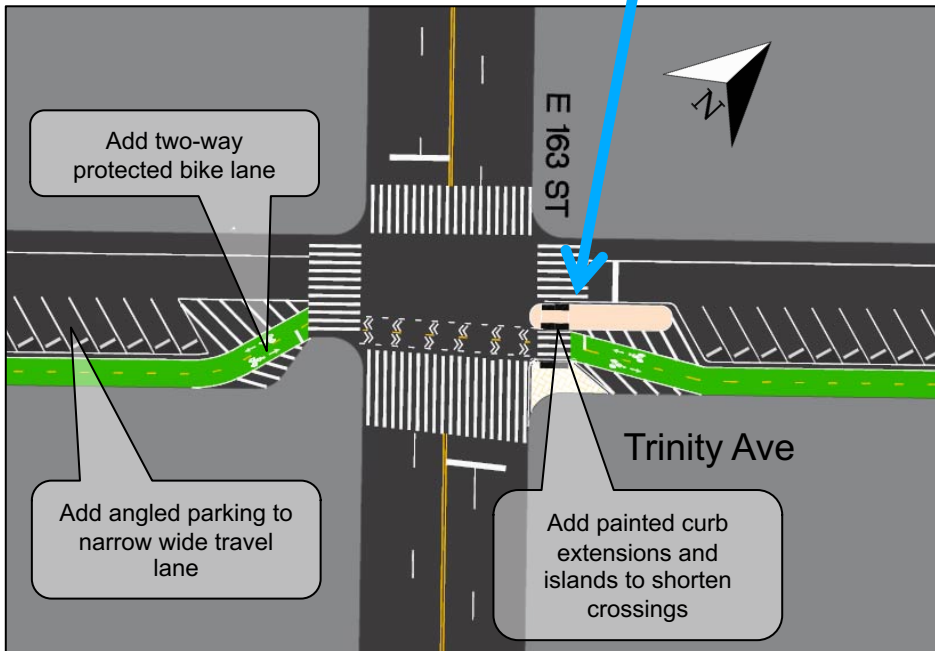
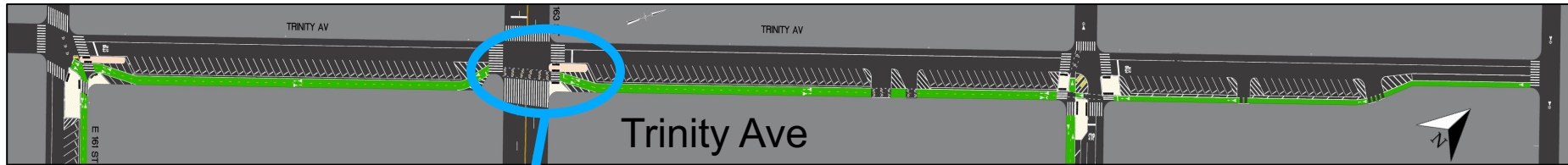
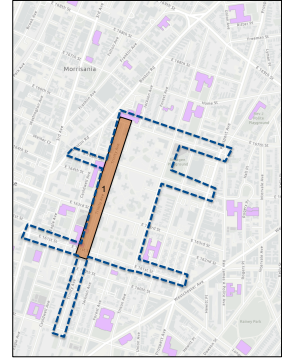


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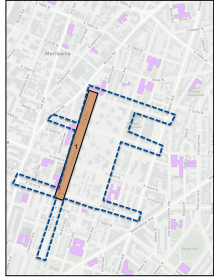
Trinity Ave, East 166 St to East 161 St

Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions/Islands



Trinity Ave, East 166 St to East 161 St

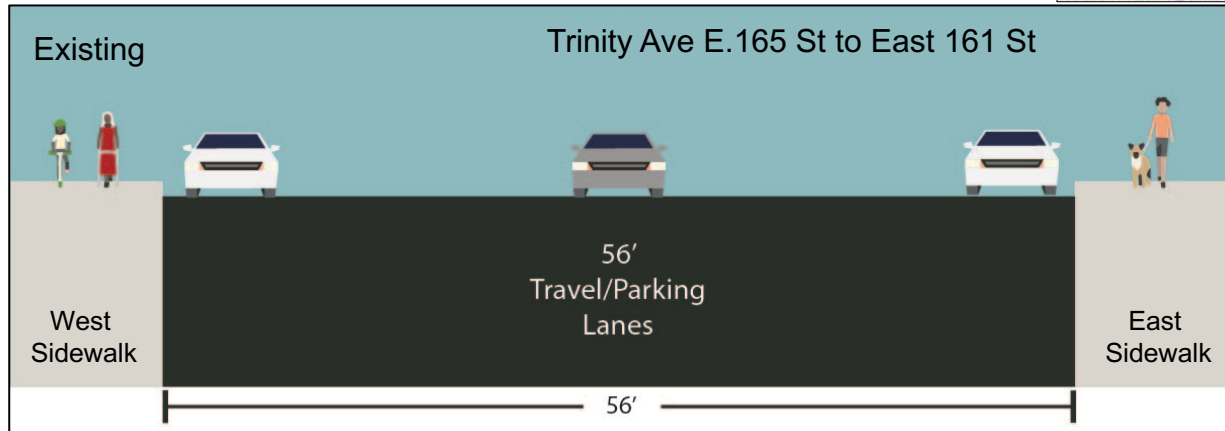
Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions and Islands



Existing



Existing: Trinity Ave, Bronx

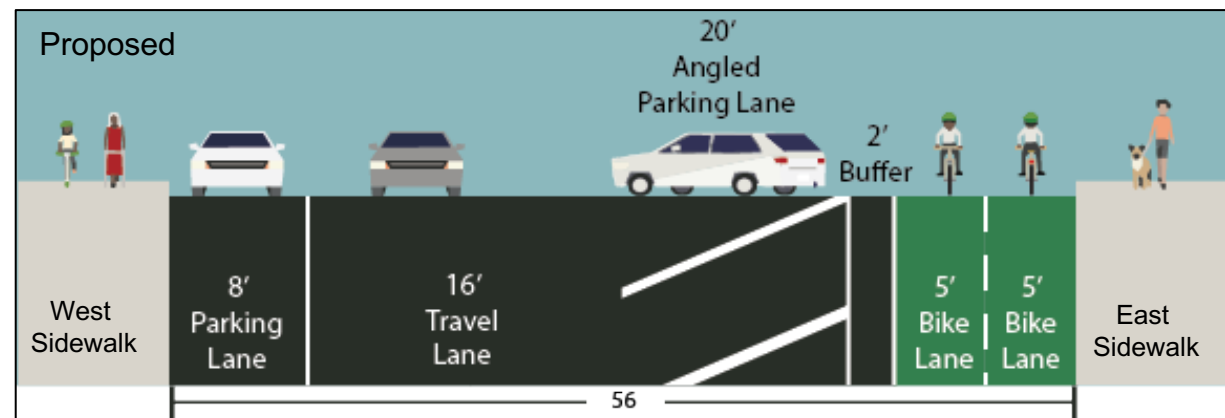


New protected bike lanes provides a safe and dedicated space for cyclists

Proposed



Example: Fort George Hill, Manhattan



Trinity Ave, East 166 St to East 161 St

Safety: Protected Bike Lanes

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

-15% drop in all crashes with injuries

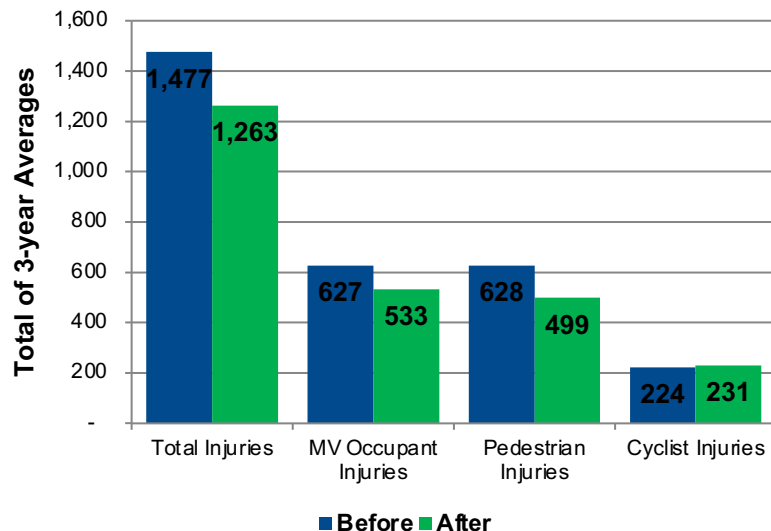
-21% drop in pedestrian injuries

on streets where protected bike lanes were installed 2007-2017



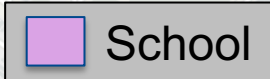
Protected Bike Lanes

Before and After Crash Data, 2007 - 2017



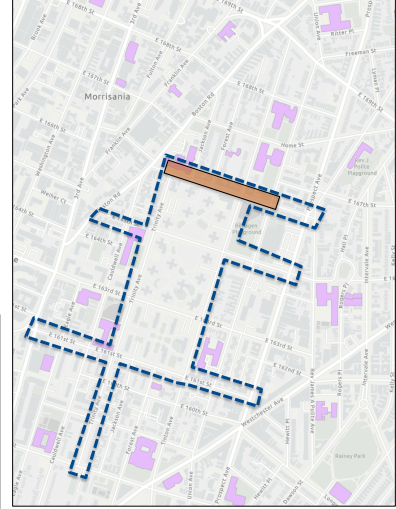
Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow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

East 166th St, Jackson Ave to Union Ave



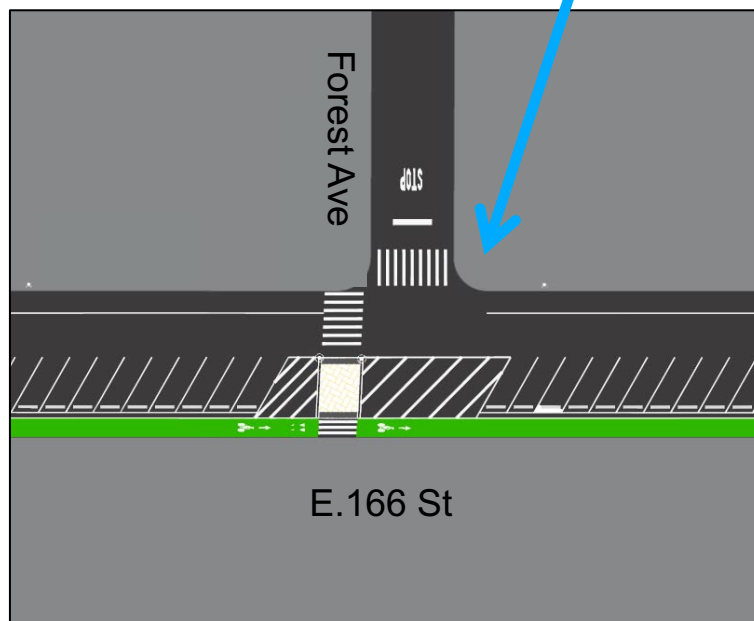
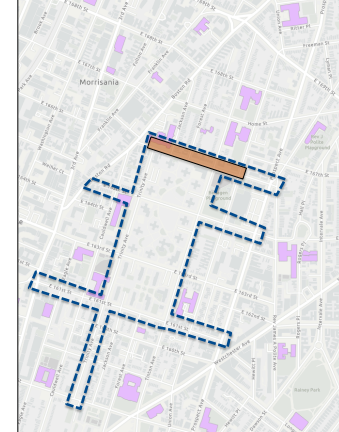
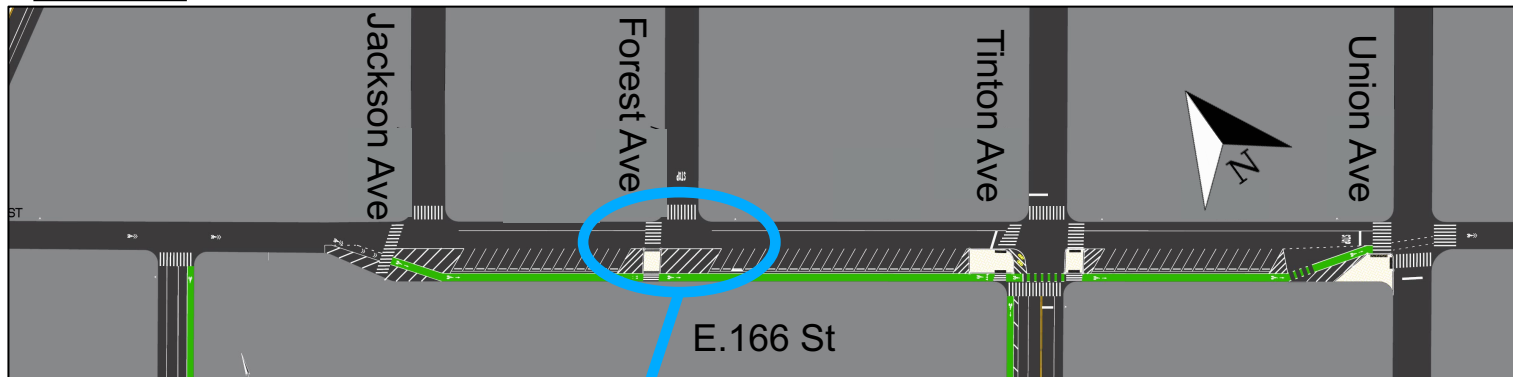
East 166 Street, Jackson Ave to Union Ave

Existing Conditions

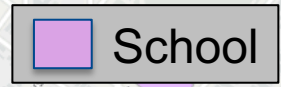


East 166 Street, Jackson Ave to Union Ave

Proposal: Painted Curb Extensions and Protected Bike Lanes

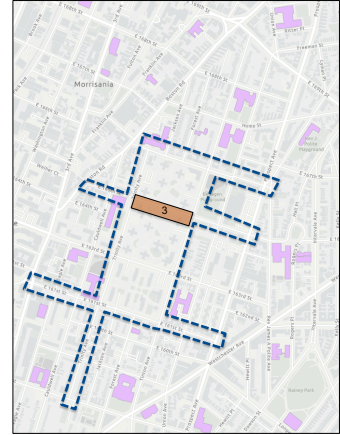


East 165 St, Tinton Ave to Trinity Ave



East 165 Street, Tinton Ave to Trinity Ave

Existing Conditions



Wide roadway with low traffic volumes encourage speeding and irregular vehicle movements

Long crosswalks

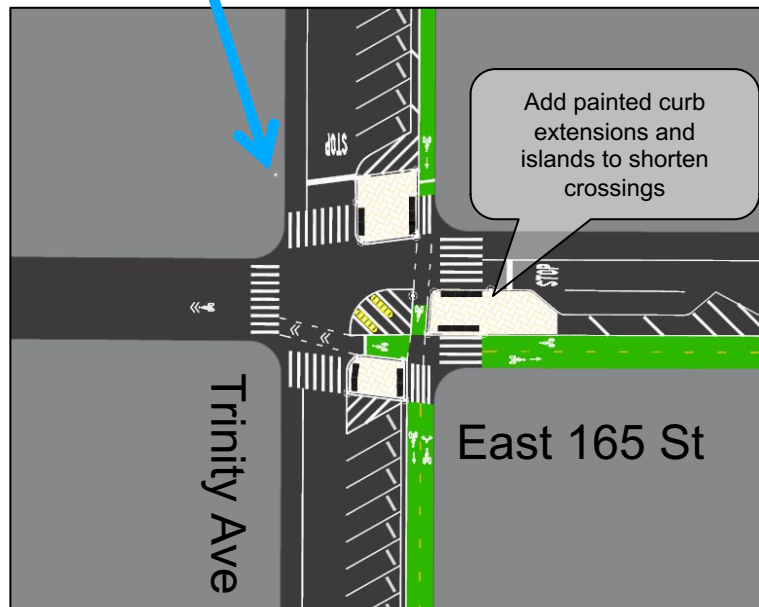
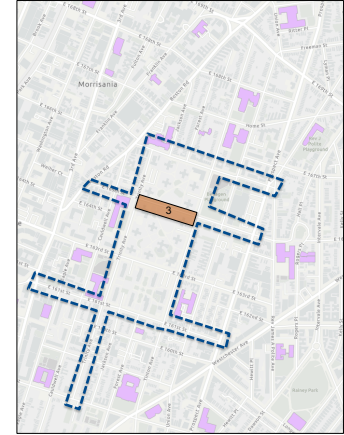


East 165 St at Trinity Ave looking east

ICM students measuring street width

East 165 Street, Tinton Ave to Trinity Ave

Proposal: Two-way Protected Bike Lane and Pedestrian Islands

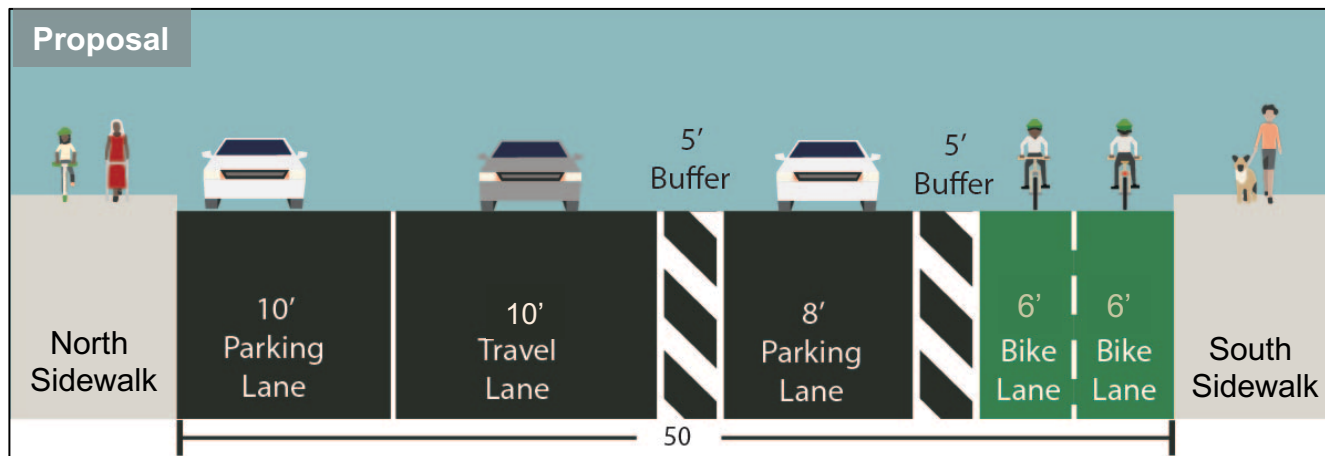
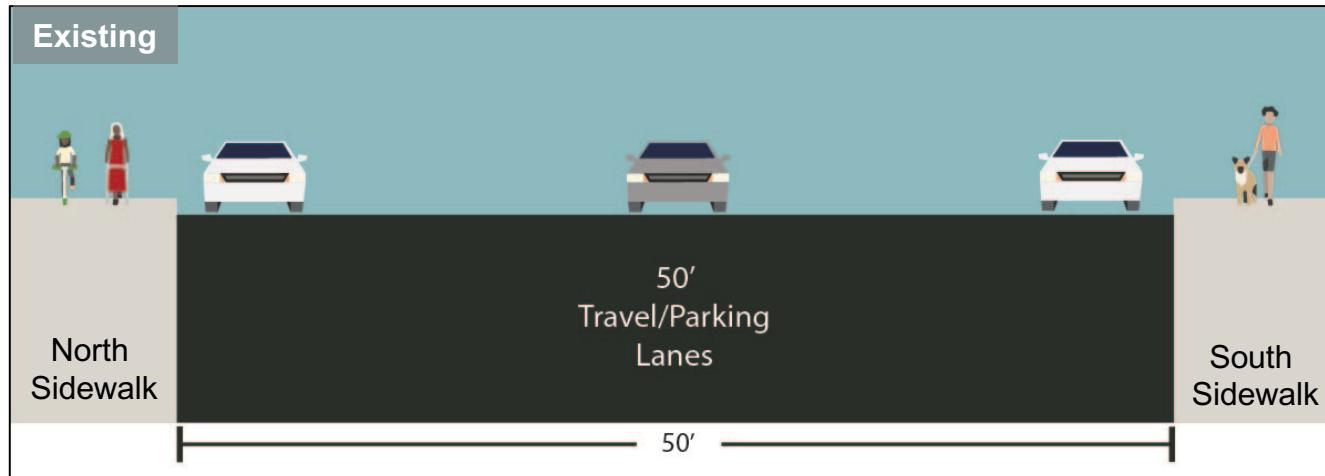
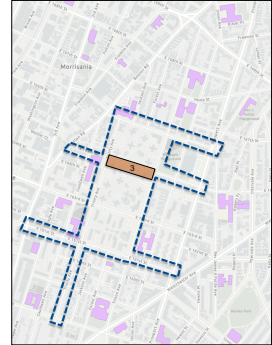


Two-way parking protected bike lane

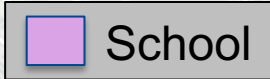


East 165 Street, Tinton Ave to Trinity Ave

Proposal: Two-way Protected Bike Lane and Pedestrian Islands

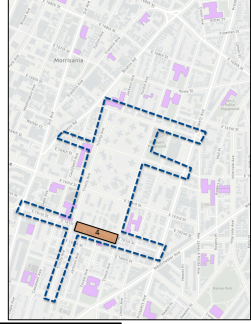


E. 161 St, Trinity Ave to Tinton Ave



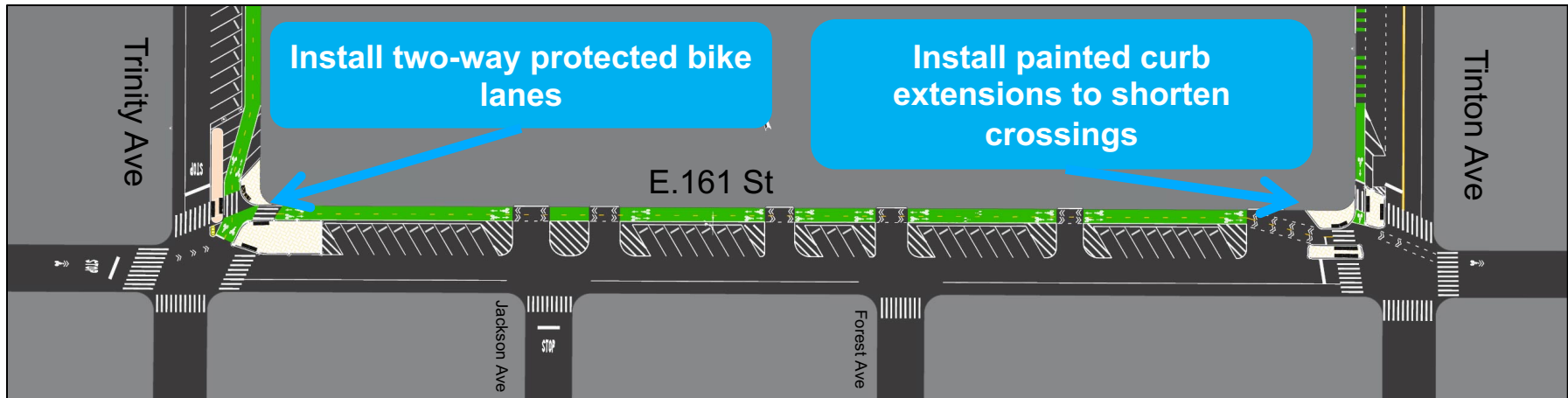
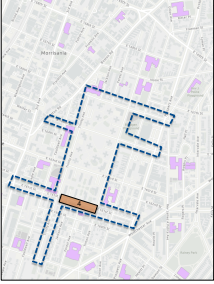
East 161 St, Trinity Ave to Tinton Ave

Existing Conditions



East 161 St, Trinity Ave to Tinton Ave

Proposal: Angled Parking, Painted Curb Extensions, and Protected Bike Lane



Example: 8th Street, Manhattan

© NYC DOT

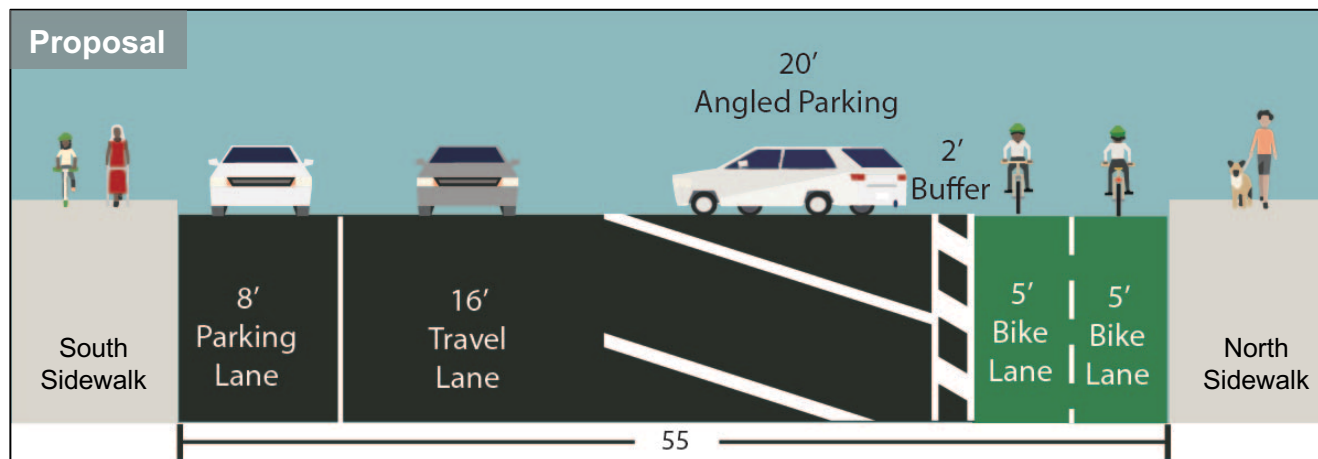
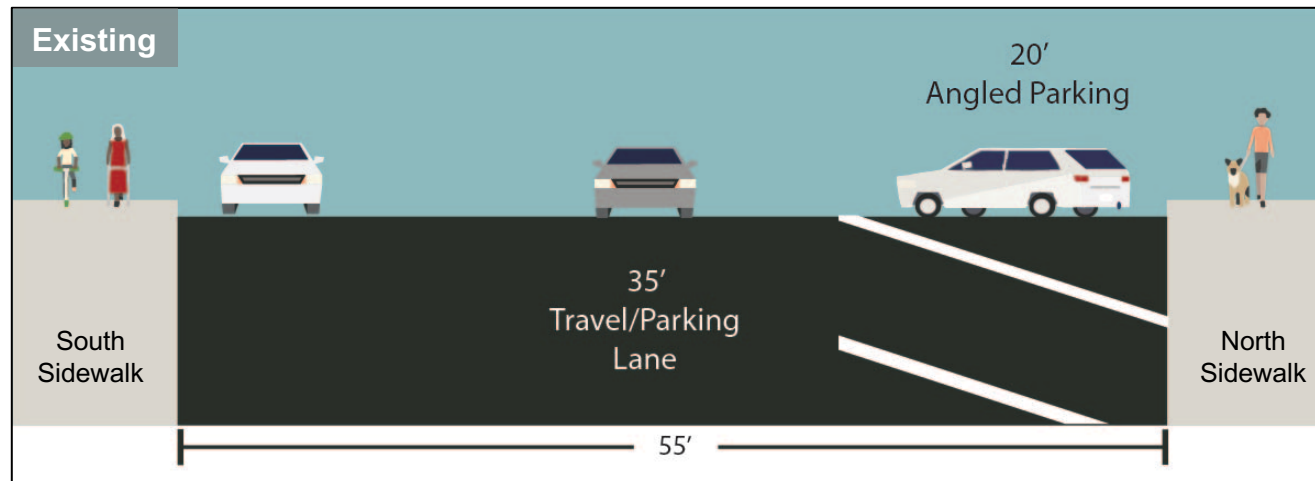
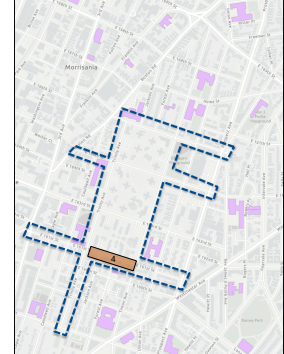


Example: Fort George Hill, Manhattan

© NYC DOT

East 161 St, Trinity Ave to Tinton Ave

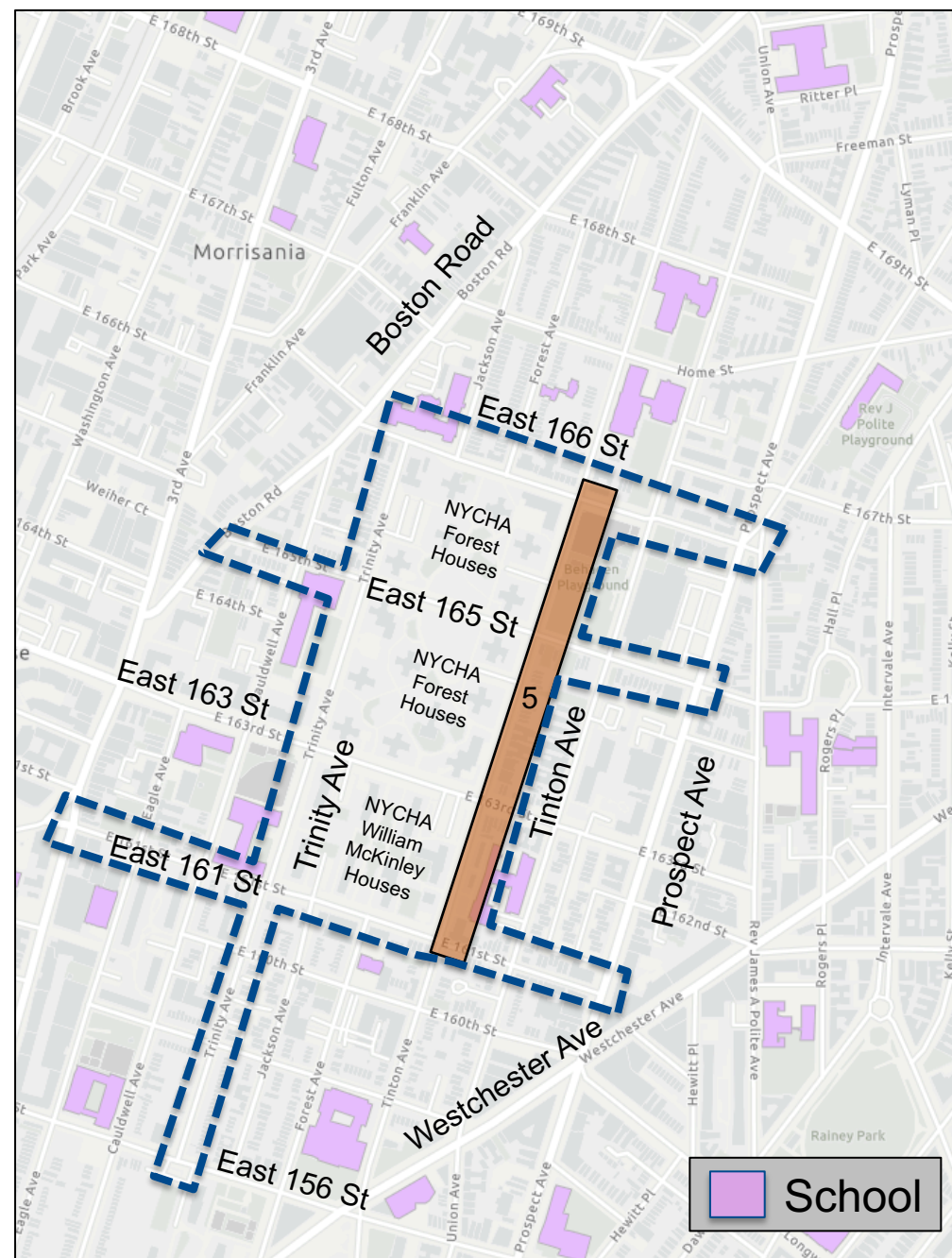
Proposal: Angled Parking, Painted Curb Extensions, and Protected Bike Lane



Morrisania School

Safety Improvements

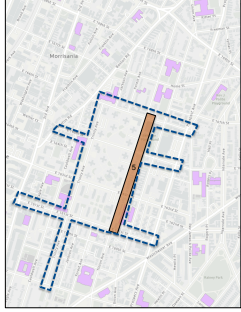
Tinton Ave, E. 166 St to E. 161 St



School

Tinton Ave, East 166 St to East 161 St

Existing Conditions



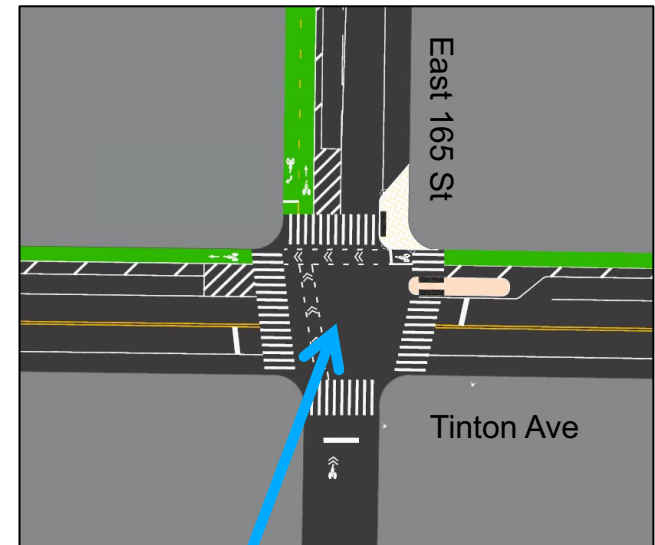
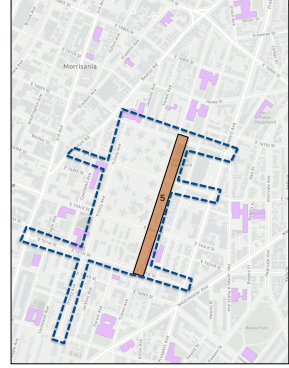
50' wide two-way street with standard parking lanes and a flush median



Tinton Ave at East 166 St, looking south

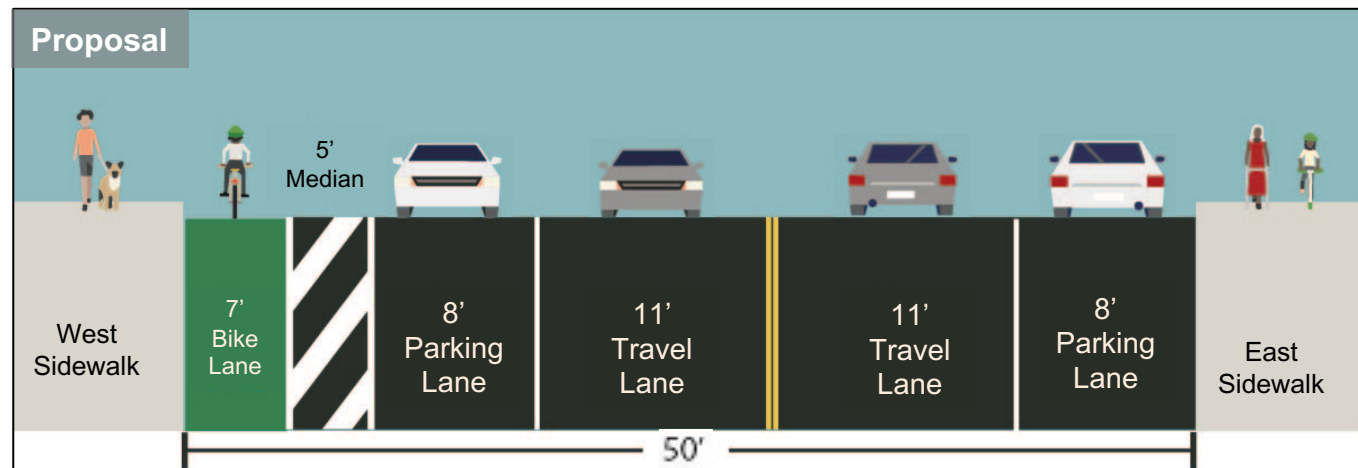
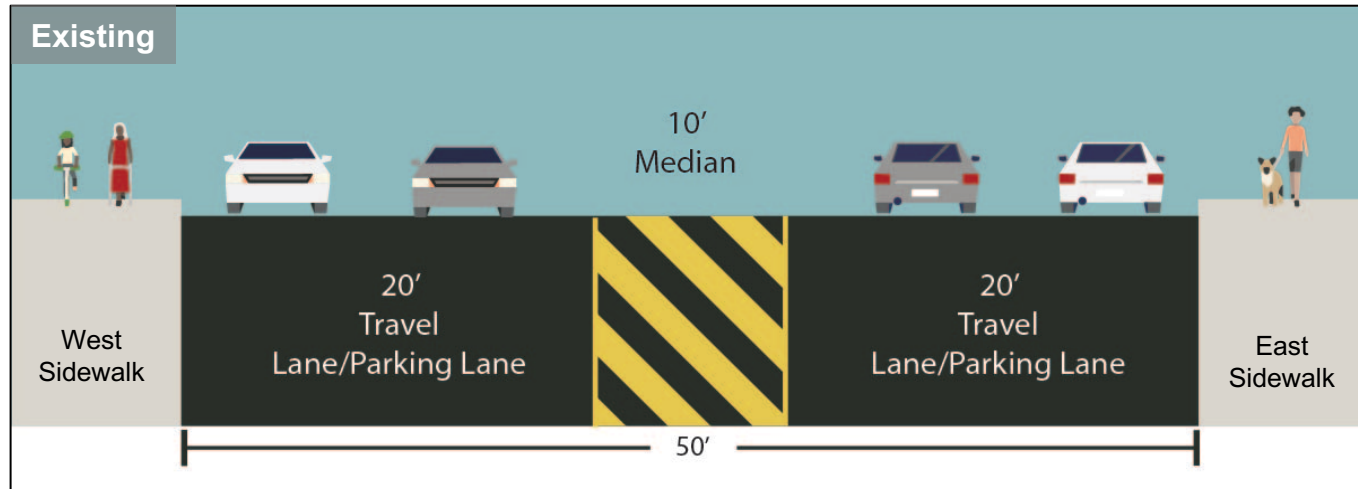
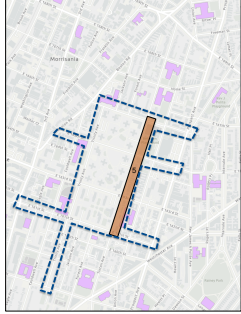
Tinton Ave, East 166 St to East 161 St

Proposal: Southbound Protected Bike Lane and Pedestrian Islands

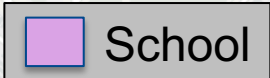


Tinton Ave, East 166 St to East 161 St

Proposal: Southbound Protected Bike Lane and Pedestrian Islands



Bicycle Network Connections: Standard Bike Lanes



Morrisania School Safety Improvements

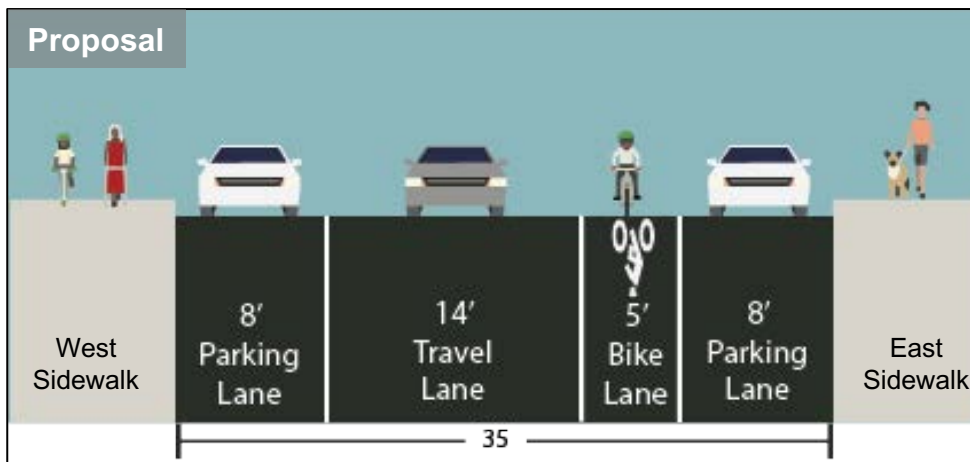
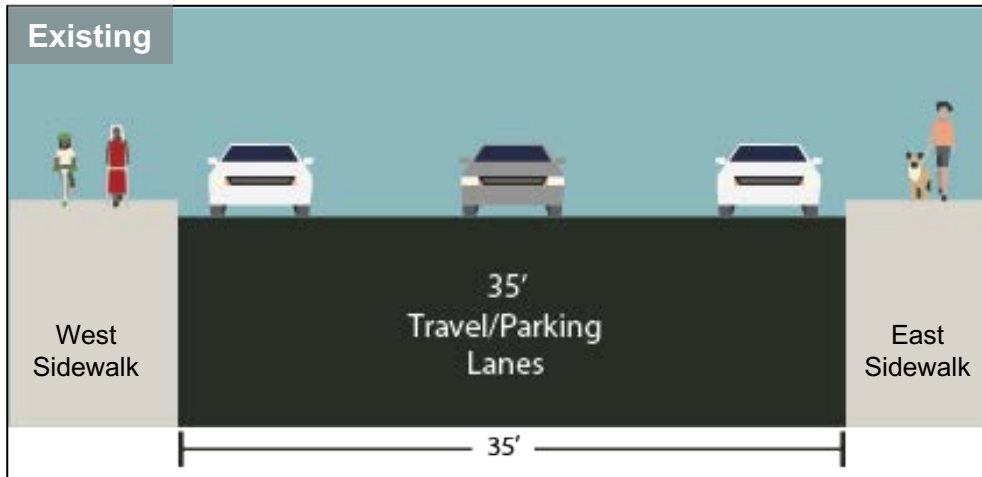
Existing Conditions: Trinity Ave, East 161 to East 156 St



Trinity Ave at East 161 St looking south

Morrisania School Safety Improvements

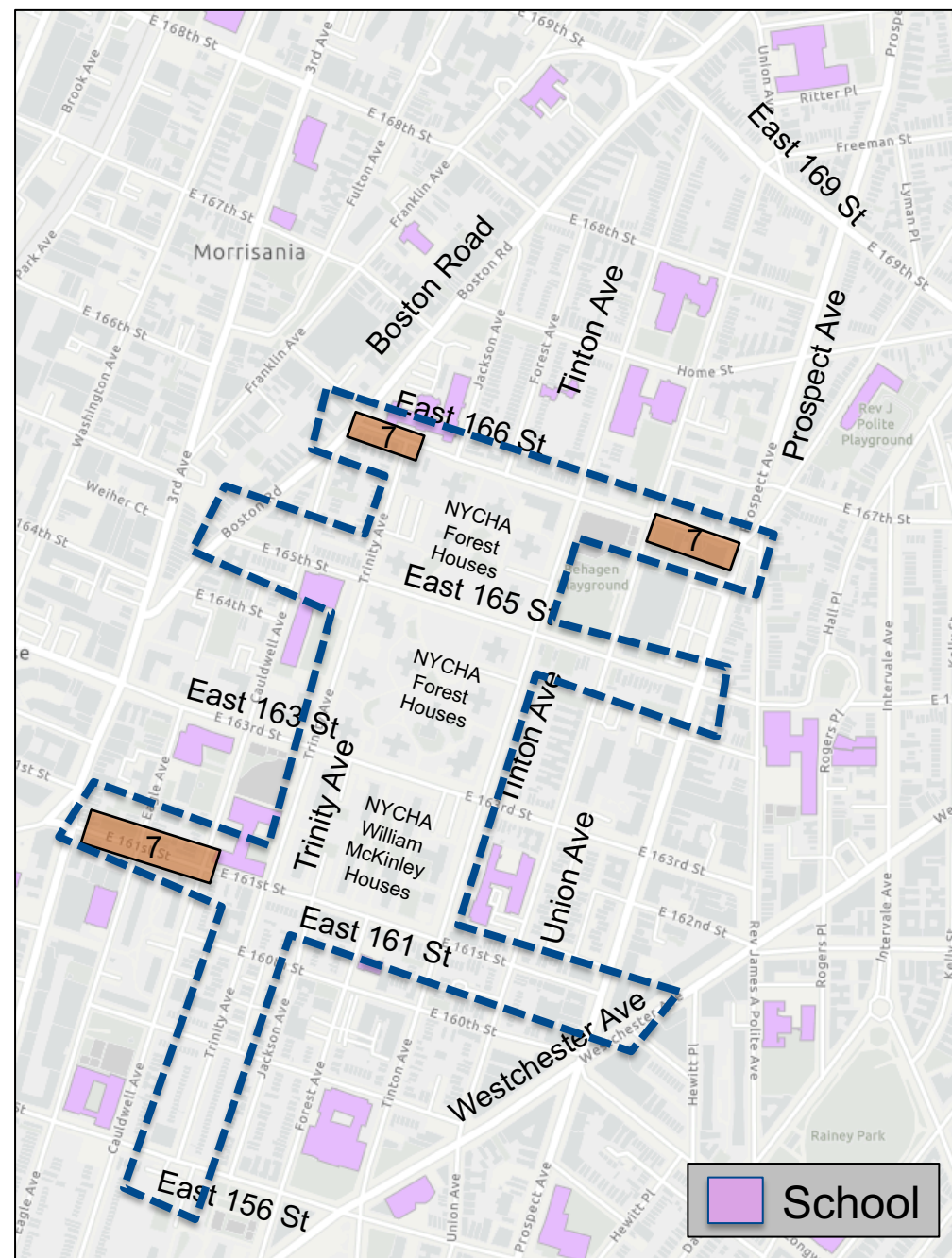
Proposal: Standard Bike Lanes



Standard bike lane markings indicate a dedicated lane environment for bicycles and vehicles

Morrisania School Safety Improvements

Bicycle Network Connections: Shared Bike Lanes



Morrisania School Safety Improvements

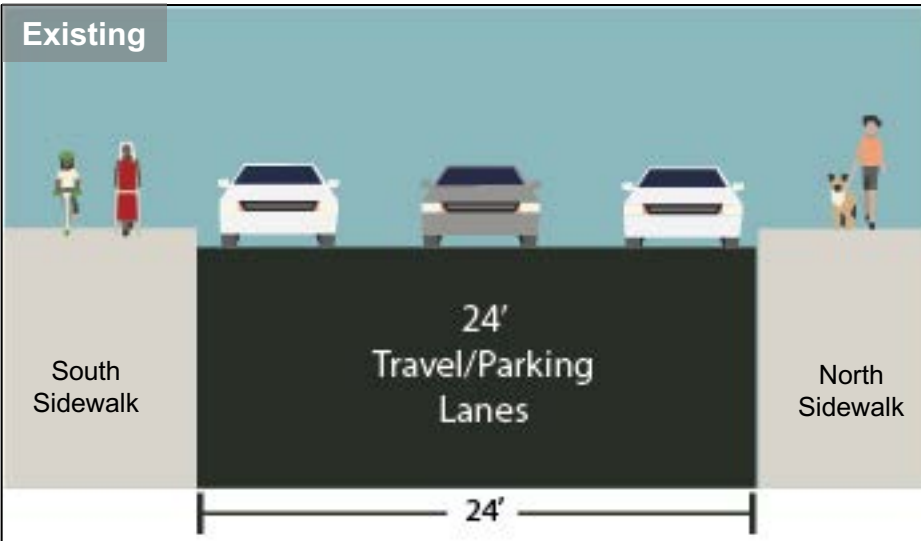
Existing Conditions: East 166 St, Union Ave to Prospect Ave



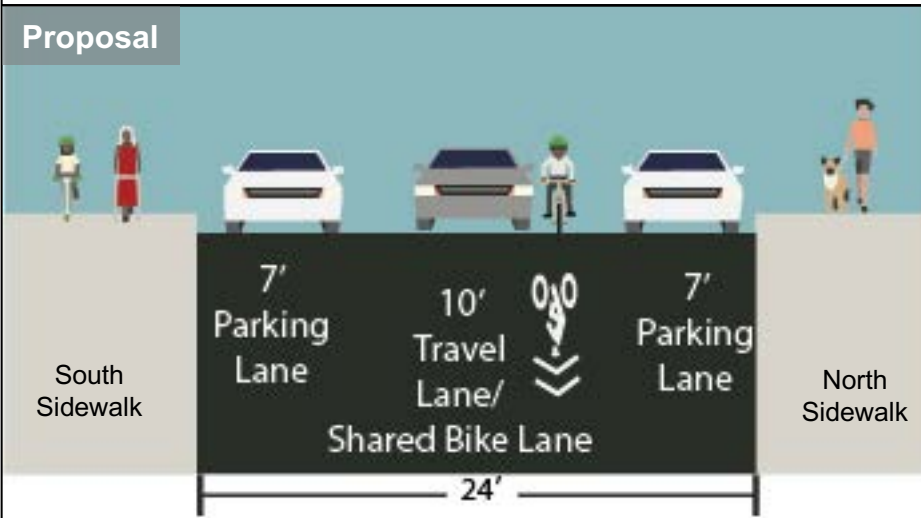
Morrisania School Safety Improvements

Proposal: Shared Bike Lanes

Existing



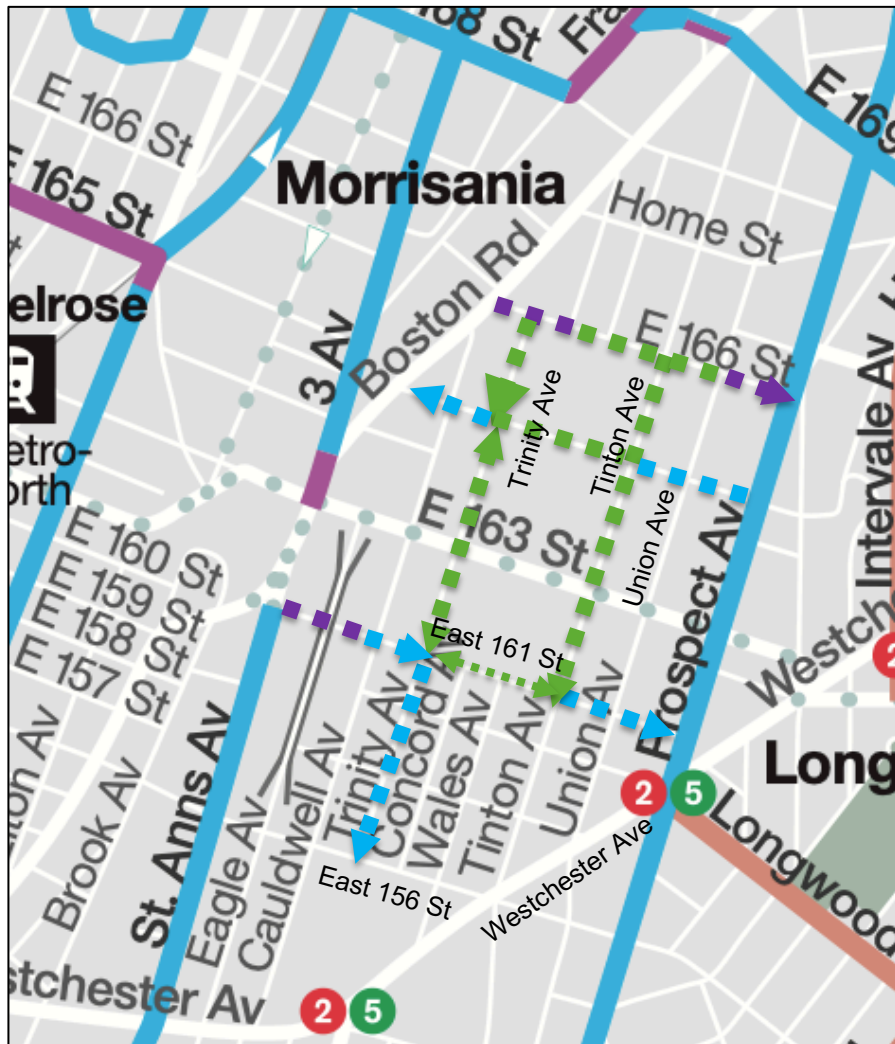
Proposal



Shared bike lane markings indicate a shared lane environment for bicycles and vehicles and are used to complete bike networks on narrow streets

Morrisania Street Safety Improvements

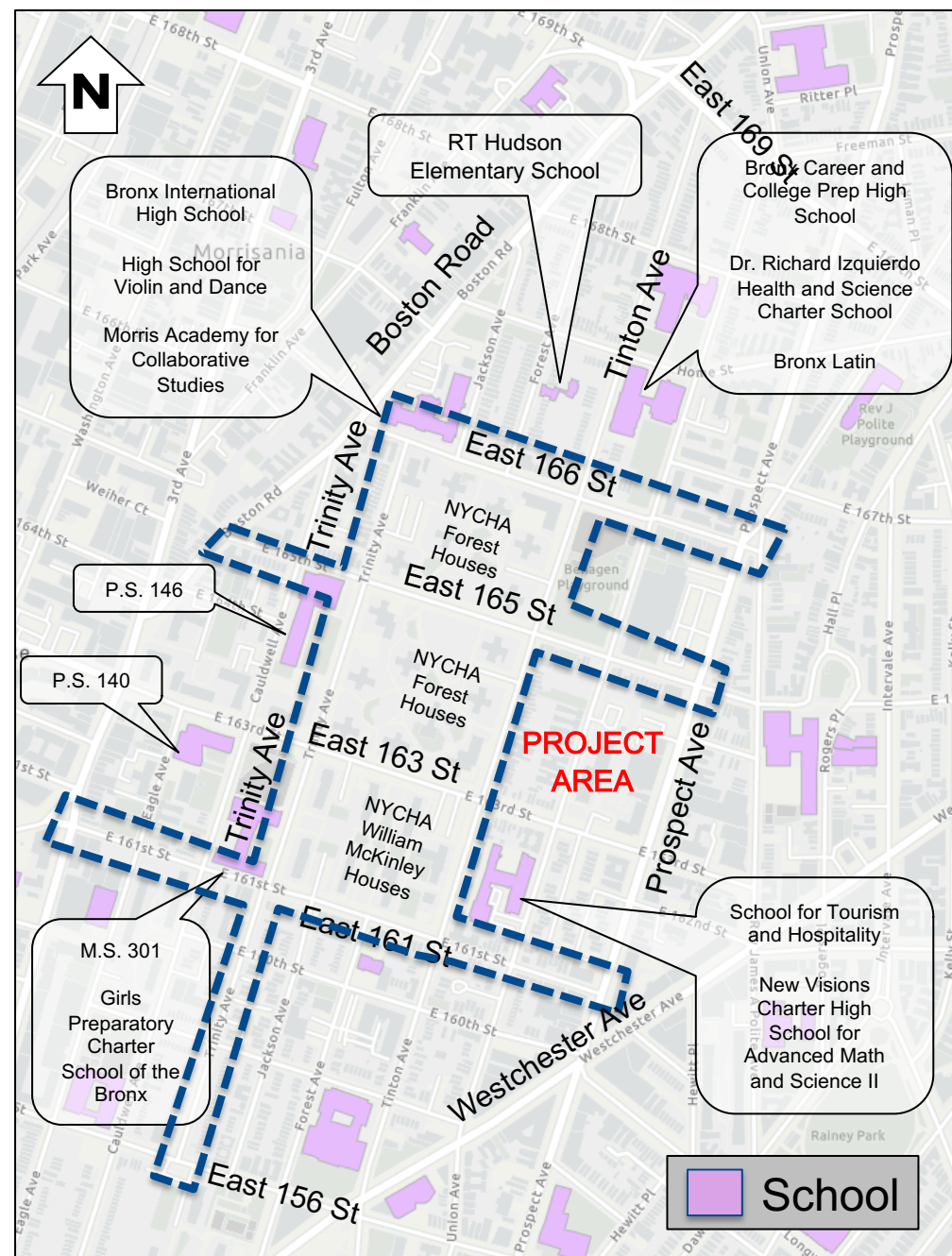
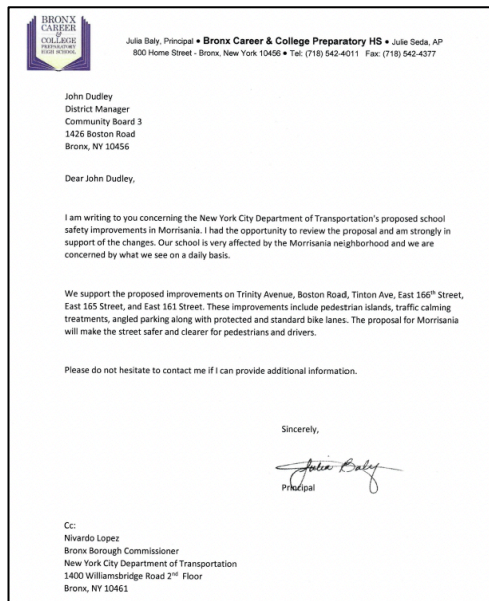
Proposal: Bike Network Connections



Morrisania School Safety Improvements

School Outreach

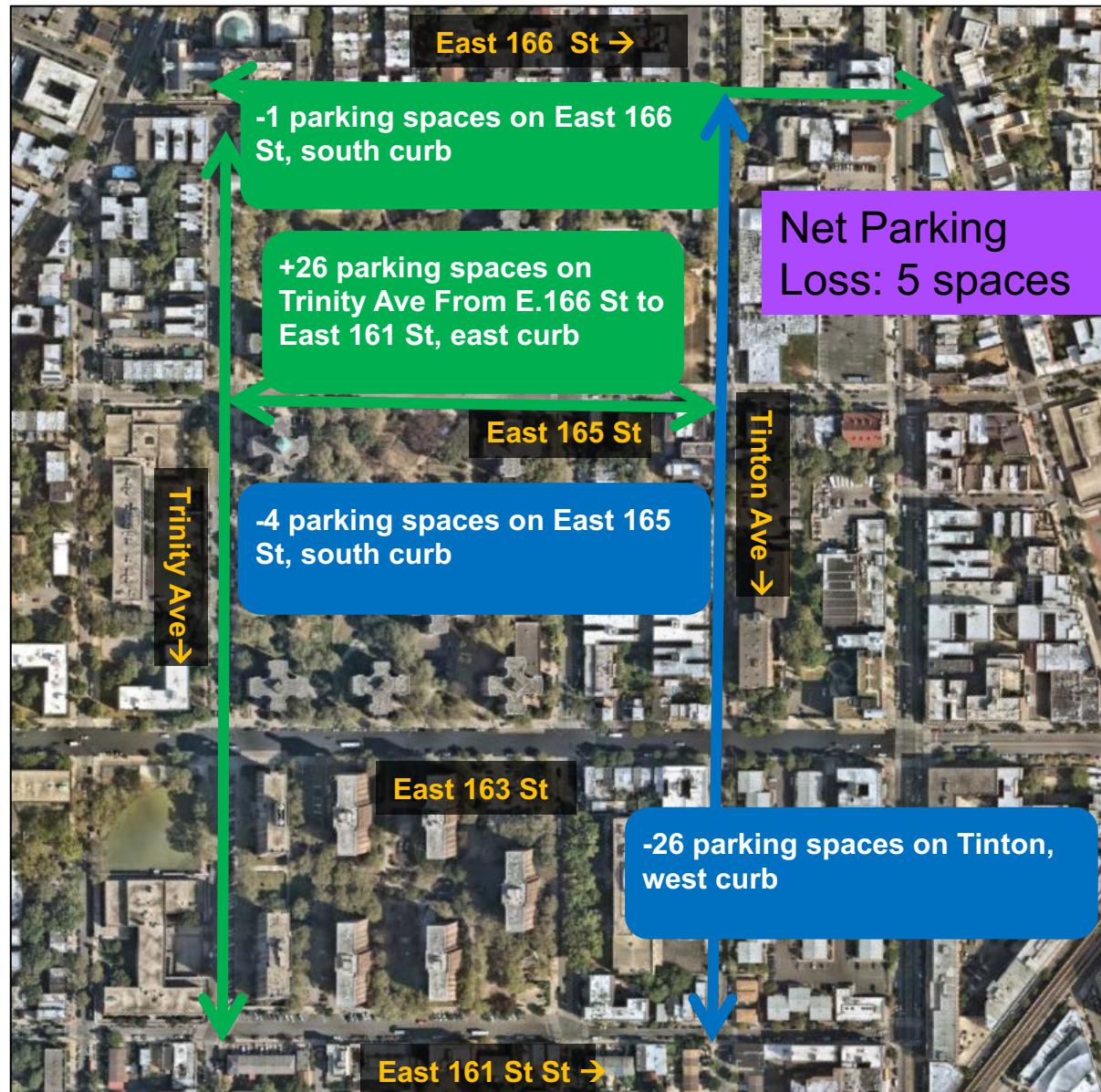
- Met to discuss safety concerns with 10 schools
- Met to discuss proposal with 3 schools, all of which were supportive
- Received official letters of support from 1 school (2 pending)



Appendix

Parking Impact

- Stripe parking stalls to maximize efficiency
- Add 26 angled parking spots on Trinity Ave from East 166 St to East 161 St
- Remove 1 parking space on East 166 St to improve visibility for pedestrian crossing
- Remove up to 26 parking spaces on Tinton Ave and East 163 St for daylighting and to add new parking protected bike lanes
- Remove 4 parking spaces on East 165 Street from Tinton Ave to Trinity Ave for visibility



Potential Future Project: Boston Road, 3rd Ave to E. 174 St

- 337 total injuries
- 27 severe injuries
- 1 fatality
- 52% of severe injuries were pedestrians

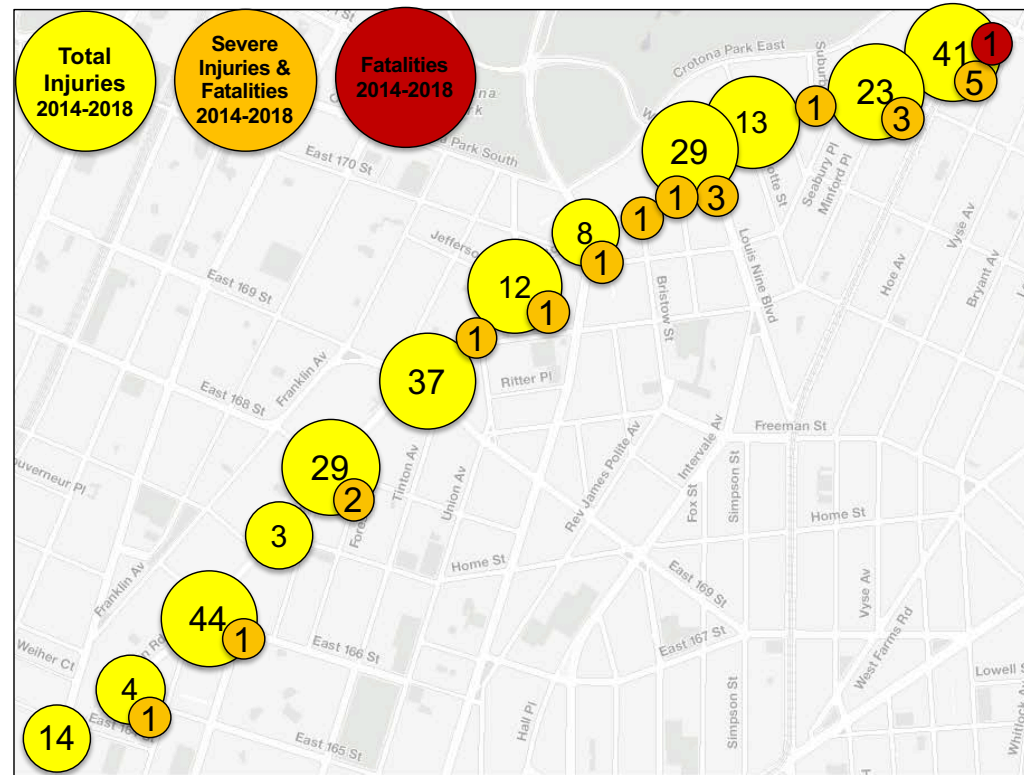
Injury Summary, 2014-2018 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	85	14	0	14
Bicyclist	22	3	0	3
Motor Vehicle Occupant	230	10	0	10
Total	337	27	0	27

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

Fatalities

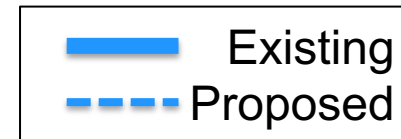
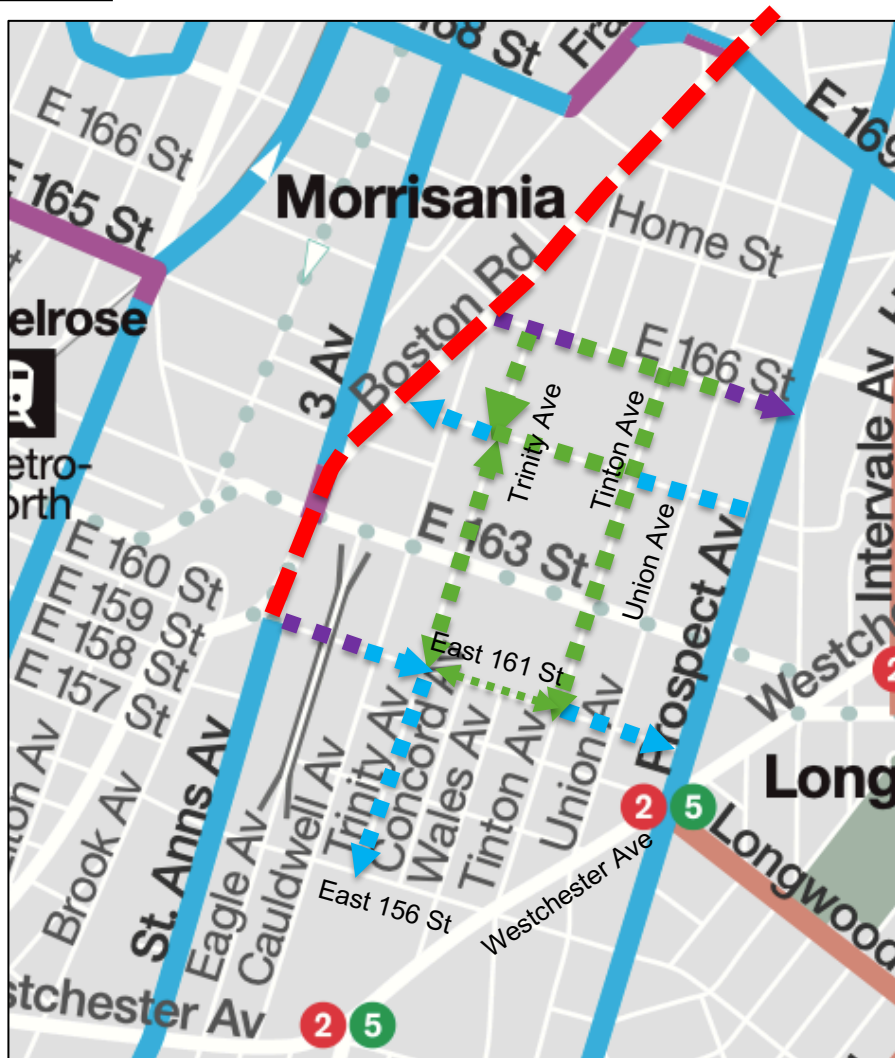
	Fatalities 2014-2018 (5 Years)	Fatalities 2014-01/30/2021 (8 YEARS)
Pedestrian	0	1
Bicyclist	0	0
Motor Vehicle Occupant	0	0
Total	0	1



Map does not include total or severe injuries that occurred at midblock locations. Data is based off of NYSDOT/NYS DMV crash and injury data available as of 1/2021

Morrisania Street Safety Improvements

Potential Future Project: Boston Road, 3rd Ave to E. 174 St



Thank You!



Contact: NYC DOT BX Borough Commissioner's Office – (212) 748-6680



NYCDOT



nyc_dot



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NYCDOT