

1ST AVENUE

PROTECTED BICYCLE LANE

New York City Department of Transportation

Presented by the Bicycle and Greenway Program on June 6, 2016 to Manhattan Community Board 6



Background **Project Area** Bike Network Safety Vehicle Network (2) Existing Conditions Design of 1st Avenue Use of 1st Avenue (3) Proposal **Protected Bike Lanes Vehicle Mobility** 48th St Island (4) Summary



PROJECT BACKGROUND

(1) Background

PROJECT AREA



BIKE VOLUMES

1st Ave Bicycle Volume:

Year	12-hour Bike Volume		
2013	1,411		
2014	1,447		
2015	1,605		

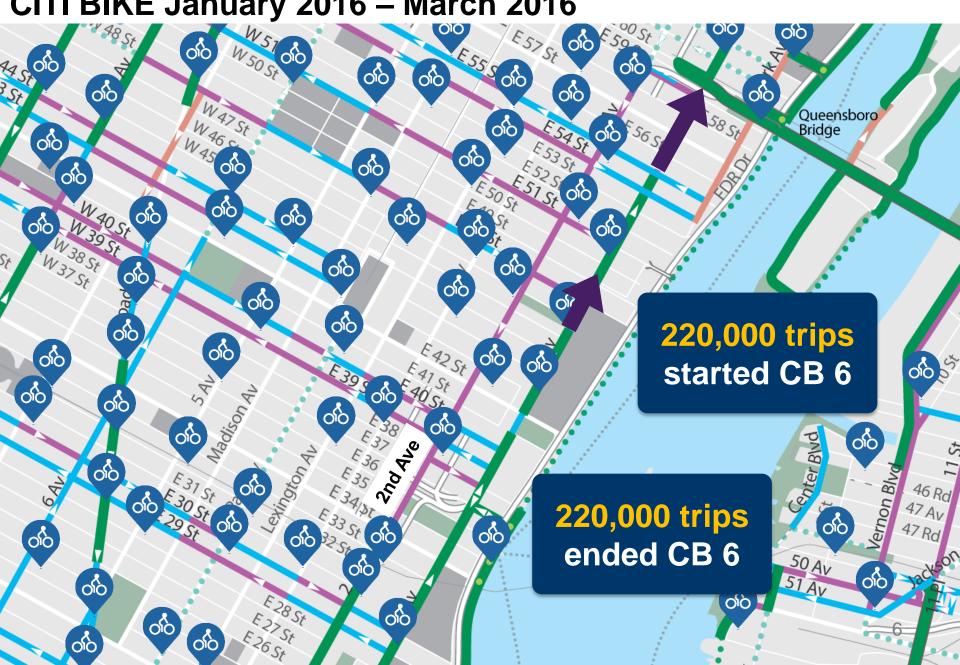
- Growing number of cyclists
- High level facility needed



Source: ATI Data, Bicycles btw. E 50 St and E 51 St, in May, August, and September in 2013, 2014, and 2015

(1) Background

CITI BIKE January 2016 - March 2016



SAFETY – Vision Zero

Total Injuries (2010-2014)

1st Ave at 47th St

- 3 Pedestrian Injuries
- 2 Bicyclist Injuries

1st Ave at 48th St

- 2 Pedestrian Injuries
- 2 Bicyclist Injuries; 1 severe

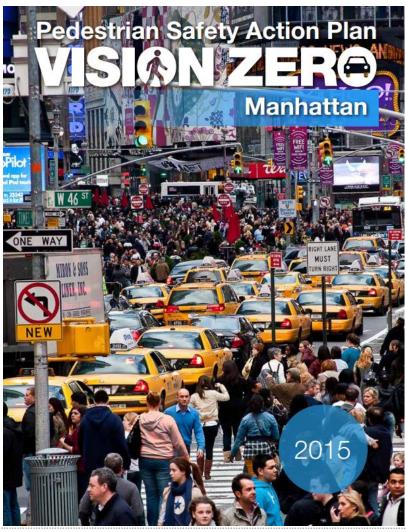
1st Ave (E 55th St to E 59th St), MN

Injury Summary, 2010-2014 (5 years)

	Total Injuries	Severe Injuries	Fatalities
Pedestrian	83	3	3
Bicyclist	19	1	0
Motor Vehicle Occupant	92	5	0
Total	0	9	3

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

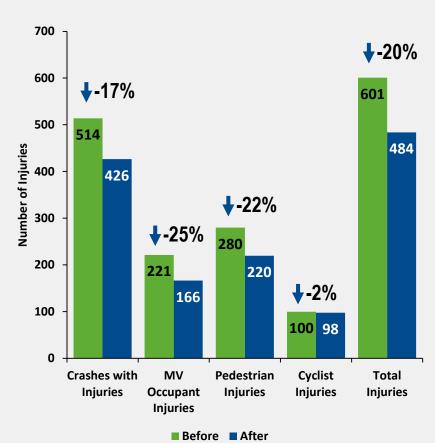




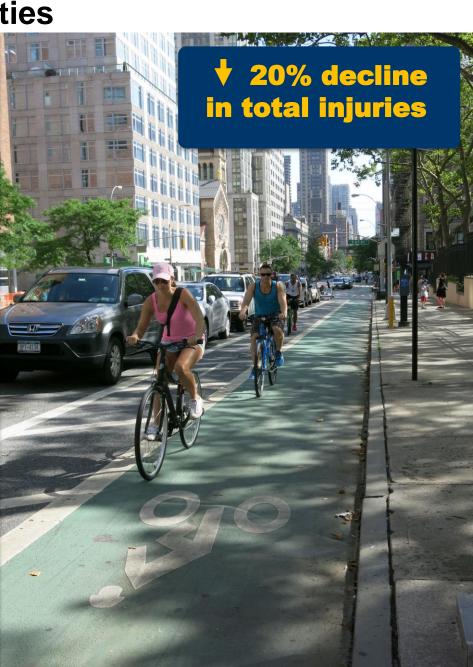
(1) Background

SAFETY – Protected Bike Facilities

Protected Bicycle Lanes with 3 years of After Data: Before and After

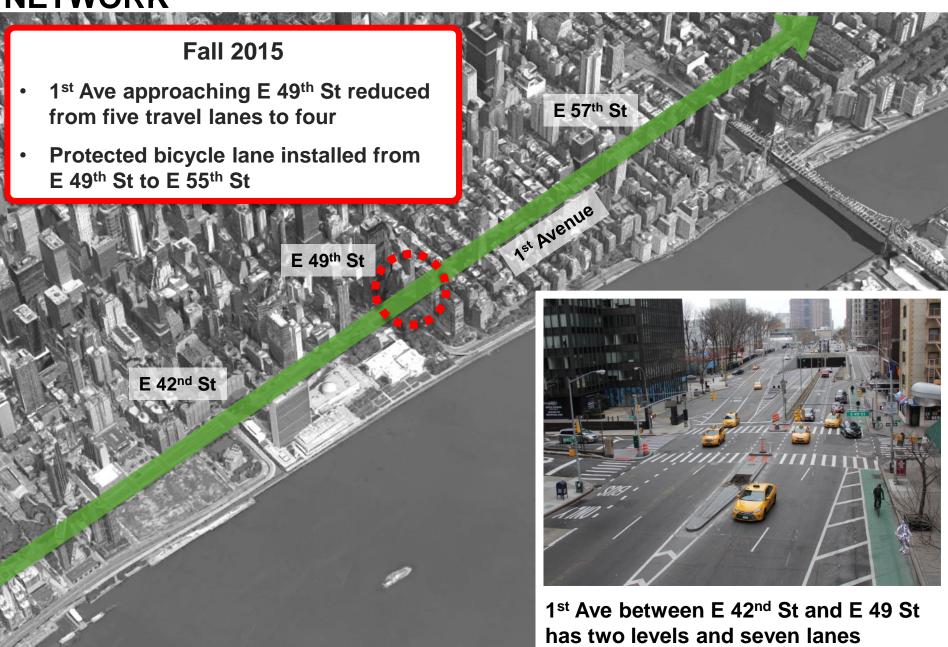


Protected bicycle lane projects with 3 years of after data include the following: 9th Ave (16th-31st), 8th Ave (Bank-23rd, 23rd-34th), Broadway (59th-47th, 33rd-26th, 23rd-18th), 1st Avenue (Houston to 34th), 2nd Ave (Houston-34th), Columbus Ave (96th-77th) Note: Only sections of projects that included protected bicycle lanes were analyzed Source: NYPD AIS/TAMS Crash Database

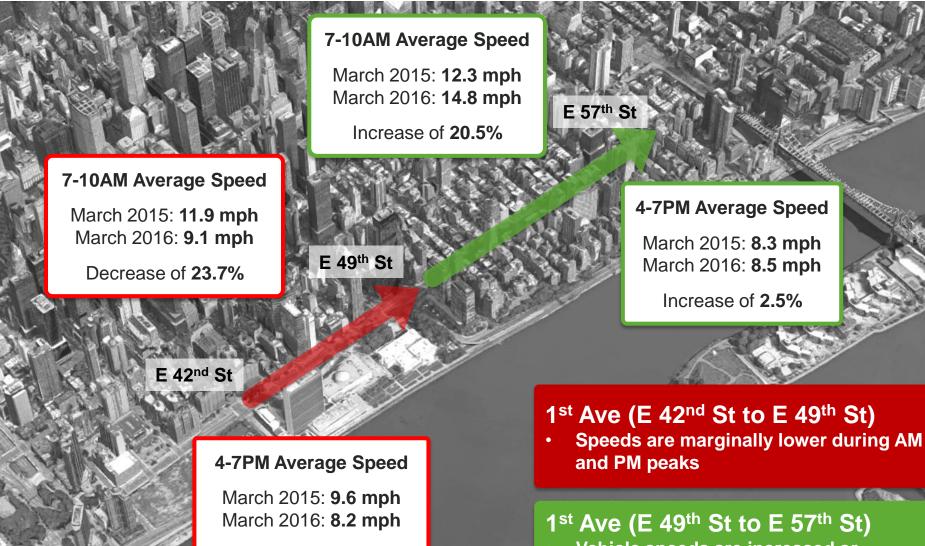


(1) Background

NETWORK



IMPACT OF LANE REMOVAL

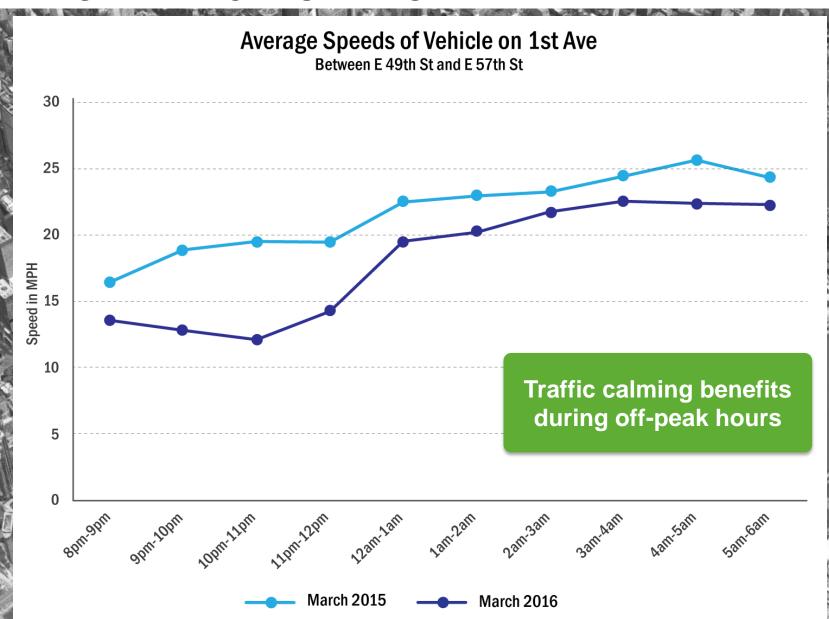


Vehicle speeds are increased or maintained during AM and PM peaks within a range that does not significantly impact safety

wn in Motion data on all Tuesdays, Wednesdays and Thursdays in March 2015 and March 2016. in Motion sample includes all vehicles equipped with EZPASS.

Decrease of 13.8%

OVERNIGHT VEHICLE SPEEDS

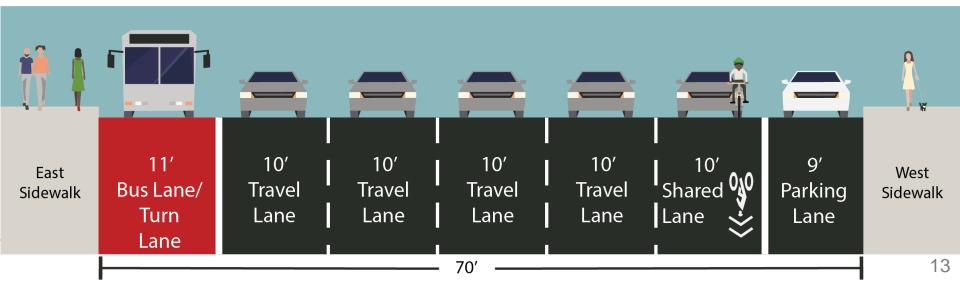


PROJECT PROPOSAL



EXISTING CONDITIONS – 1st Ave (55th St to 59th St)

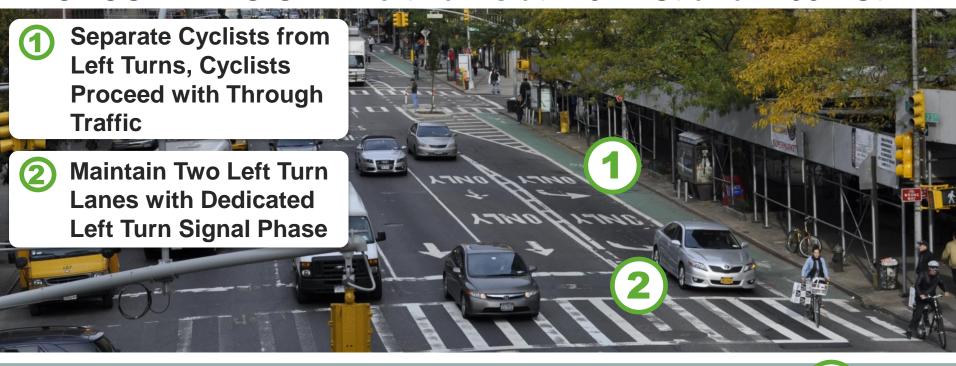


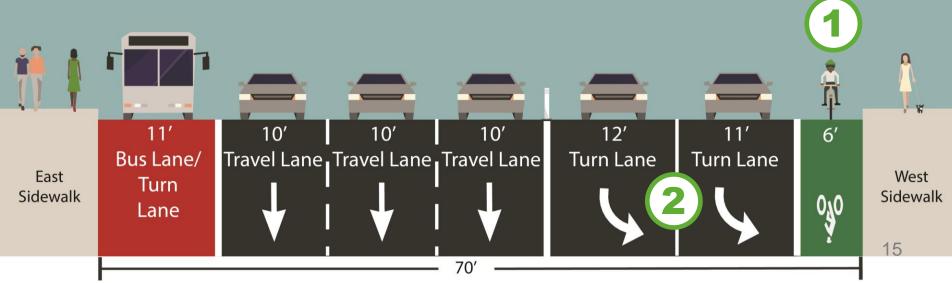


PROPOSED DESIGN - 1st Ave (55th St to 59th St)

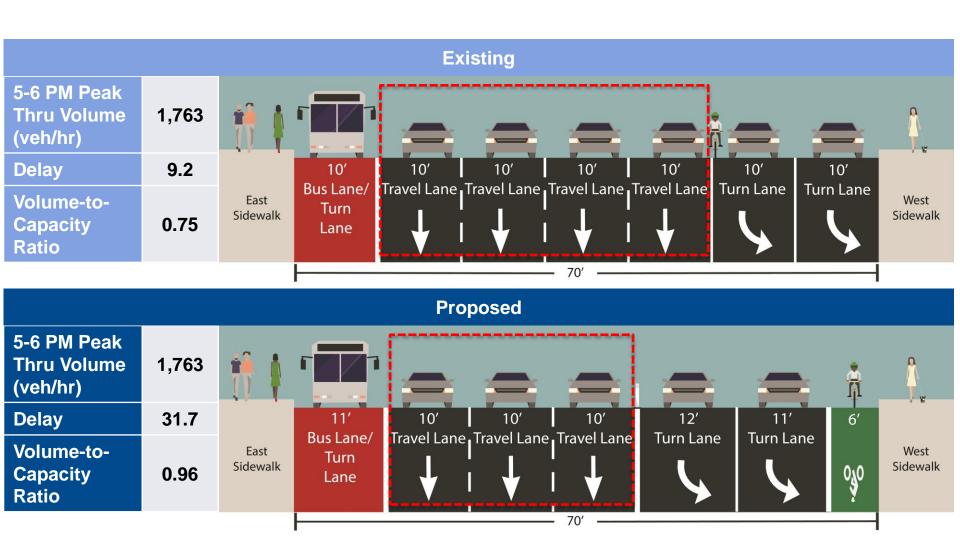


PROPOSED DESIGN – Left Turns at E 57th St and E 59th St

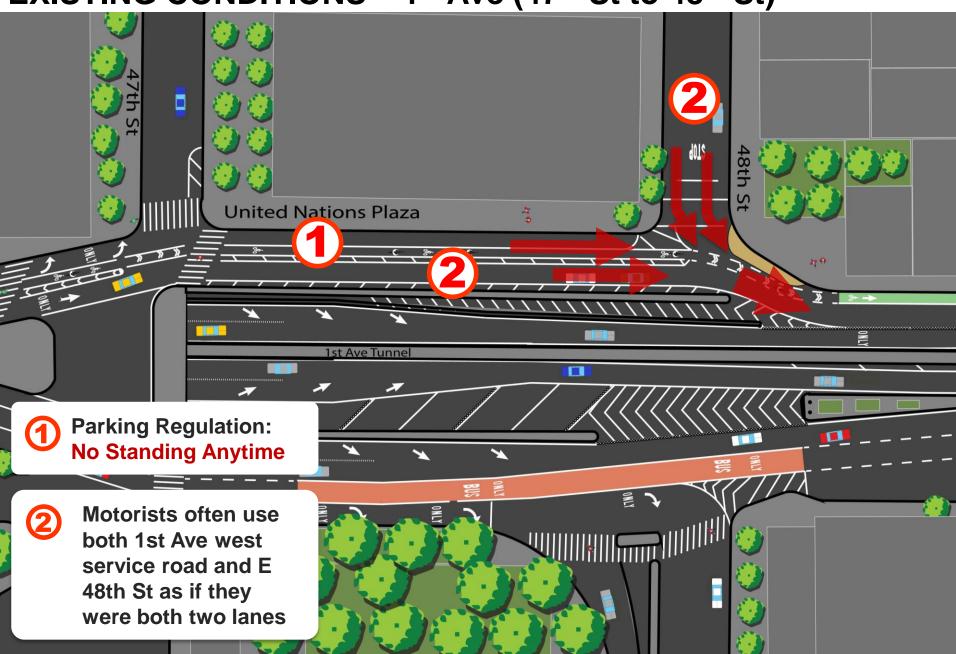




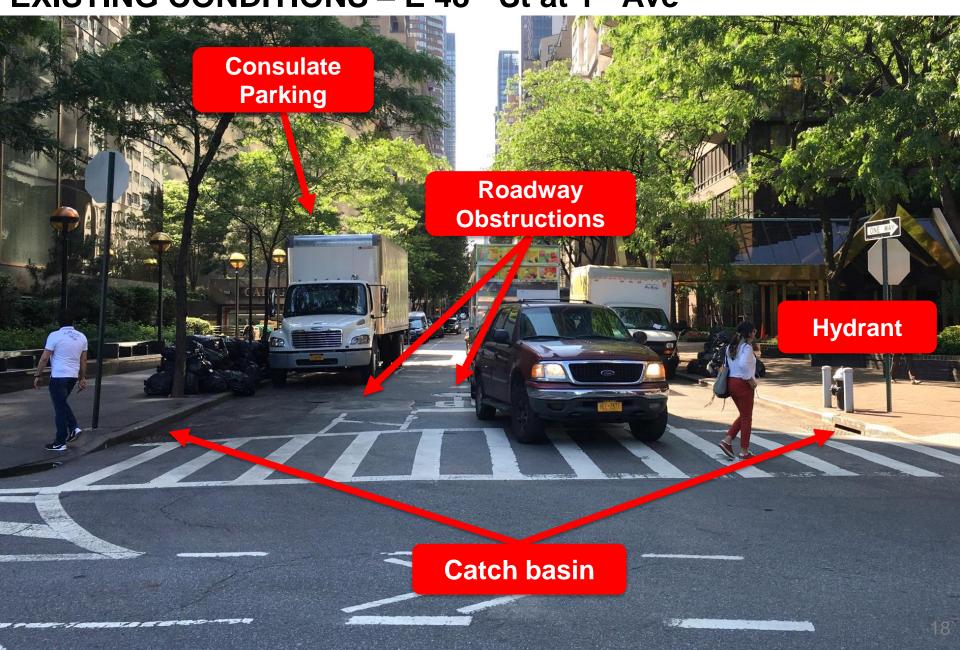
PROPOSED DESIGN – 1st Ave at E 57th St



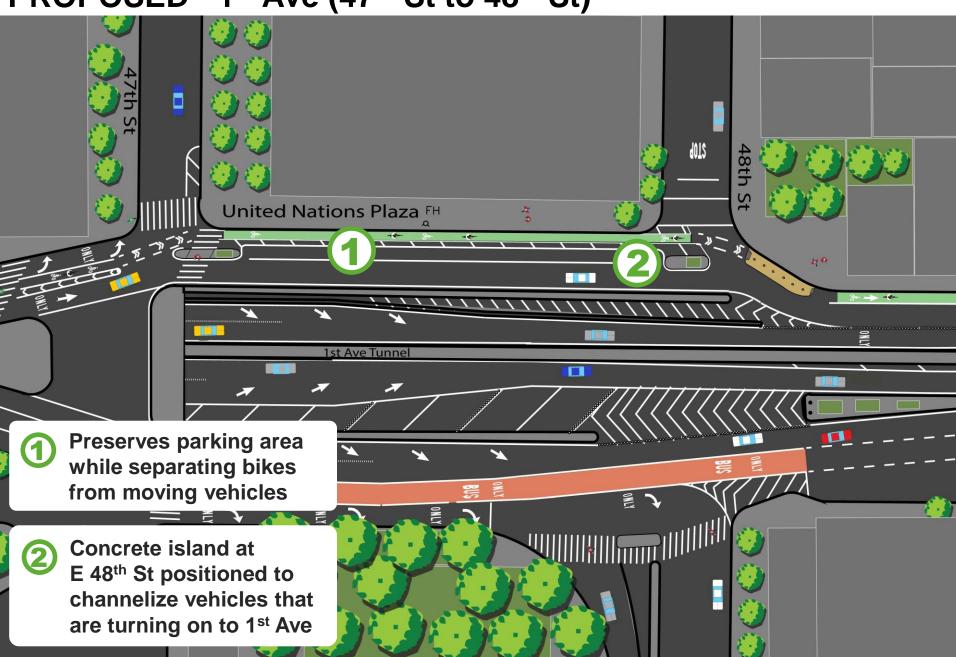
EXISTING CONDITIONS – 1st Ave (47th St to 48th St)



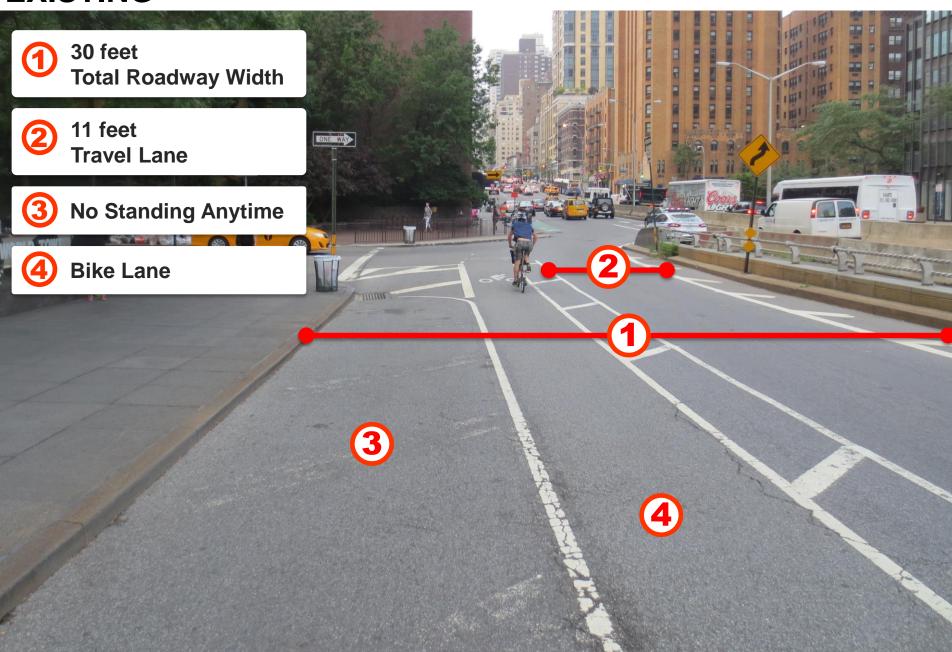
EXISTING CONDITIONS – E 48th St at 1st Ave



PROPOSED - 1st Ave (47th St to 48th St)



EXISTING



PROPOSED – Parking Protected Bike Lane



SUMMARY



PROPOSED DESIGN

1st Ave at E 47th and E 48th Streets

Islands

- Separates bikes from vehicles
- Discourage motorists from encroaching on the bike lane
- Channelizes vehicles that are turning from E 48th St to 1st Ave
- Shortens crossing

1st Ave between E 55th and E 59th Streets

Curbside bike lane

- Fill the gap in the protected network
- Off-peak traffic calming
- Maintain existing vehicle mobility



THANK YOU!

Questions?









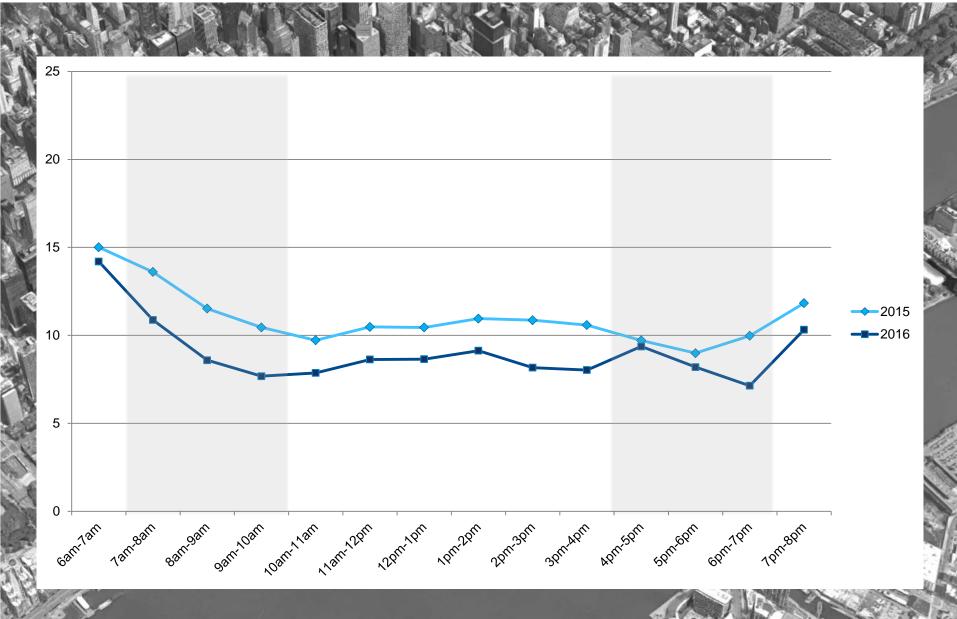




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NYC DOT

VEHICLE SPEEDS – 1st Ave between E 42nd St and E 49th St



VEHICLE SPEEDS – 1st Ave between E 49th St and E 57th St

