



116TH STREET (CB10)

Corridor Safety Improvements

December 2016



PROJECT LOCATION

- Part of safety improvements proposed on 116th St between Lenox Ave and Madison Ave
- Busy corridor with residential and commercial land uses and several schools, children's programs, senior centers, religious institutions nearby
- 2/3 subway stop at Lenox Ave and nearby 6 subway stop at Lexington Ave
- Many buses use 116th St:
 - Local buses: M116, M7, M102, M1
 - Express buses: BxM6, BxM7, BxM8, BxM9, BxM10, BxM11

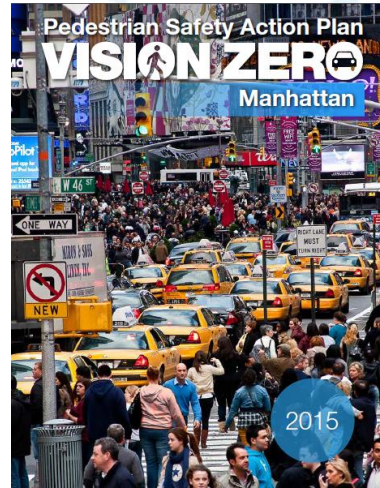


VISION ZERO PRIORITY

Manhattan Priority Geographies

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2015
- Priority Intersections, Corridors, and Areas identified for each borough
- **On 116th St:**
 - Intersections with **Lenox Ave** and **Madison Ave** identified as a Priority Intersections



**W 116TH ST &
LENOX AVE
is a Vision
Zero Priority
Intersection**

SAFETY DATA: PROJECT NEED

W 116th St (Lenox Ave to 5th Ave):

- 8 people severely injured (e.g., traumatic injuries typically requiring ambulance response)
- 21 pedestrians injured at Lenox
- 87 total injuries

W 116th St At Lenox Ave, MN

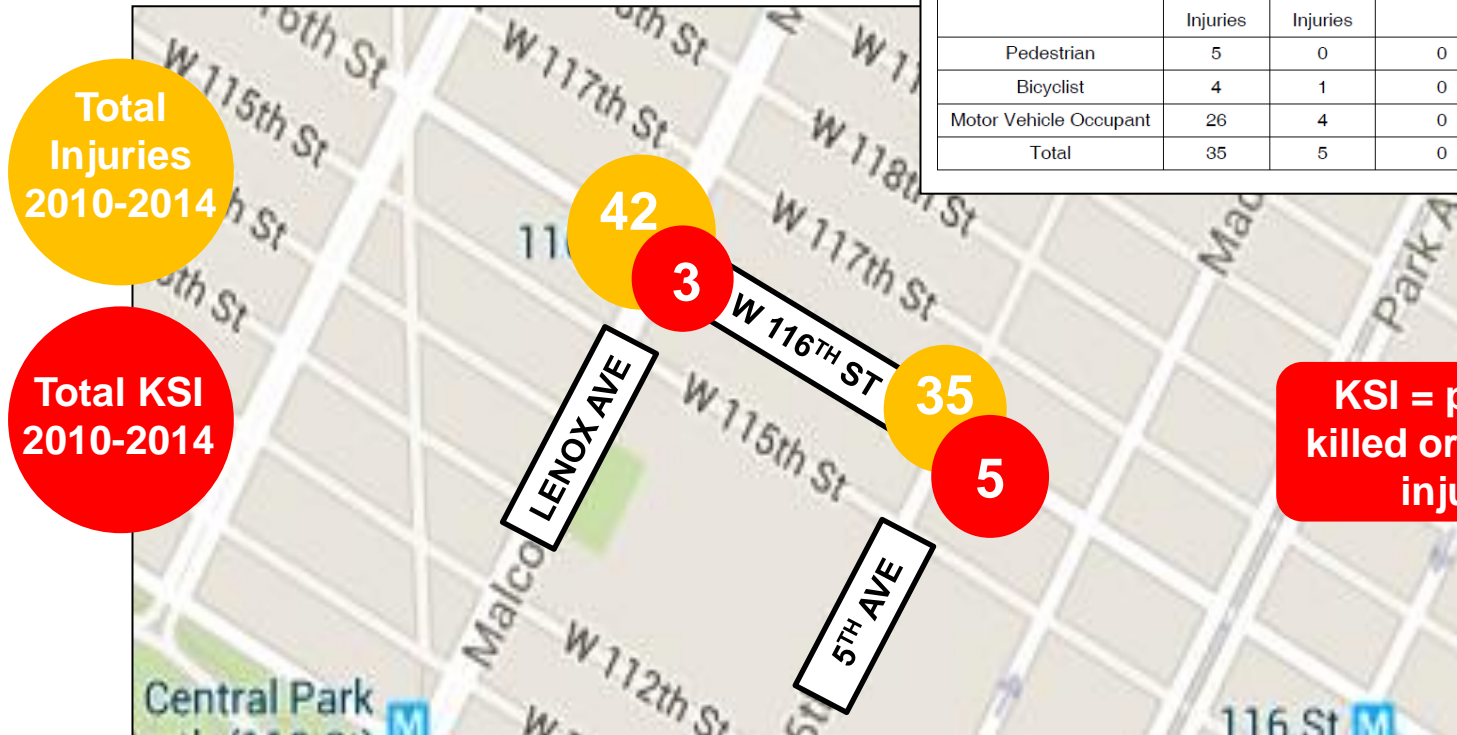
Injury Summary, 2010-2014 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	21	2	0	2
Bicyclist	5	0	0	0
Motor Vehicle Occupant	16	1	0	1
Total	42	3	0	3

E 116th St At 5th Ave, MN

Injury Summary, 2010-2014 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	5	0	0	0
Bicyclist	4	1	0	1
Motor Vehicle Occupant	26	4	0	4
Total	35	5	0	5



Total Injuries 2010-2014

Total KSI 2010-2014

KSI = persons killed or severely injured

W 116TH ST & LENOX AVE: EXISTING CONDITIONS

Long crossing distances for pedestrians, especially for seniors and children



Lenox Ave is 80 feet wide

Lenox Ave at W 116th St, looking south

W 116TH ST & LENOX AVE: EXISTING CONDITIONS

**Pedestrians get stuck in the middle
with no safe space to wait**



Lenox Ave at W 116th St, looking north

W 116TH ST & LENOX AVE: EXISTING CONDITIONS

Most crashes involve pedestrians crossing with the signal



High incidence of left turn crashes from eastbound W 116th St onto northbound Lenox Ave

Lenox Ave at W 116th St, looking west

W 116TH ST & LENOX AVE: PROPOSED SIGNAGE

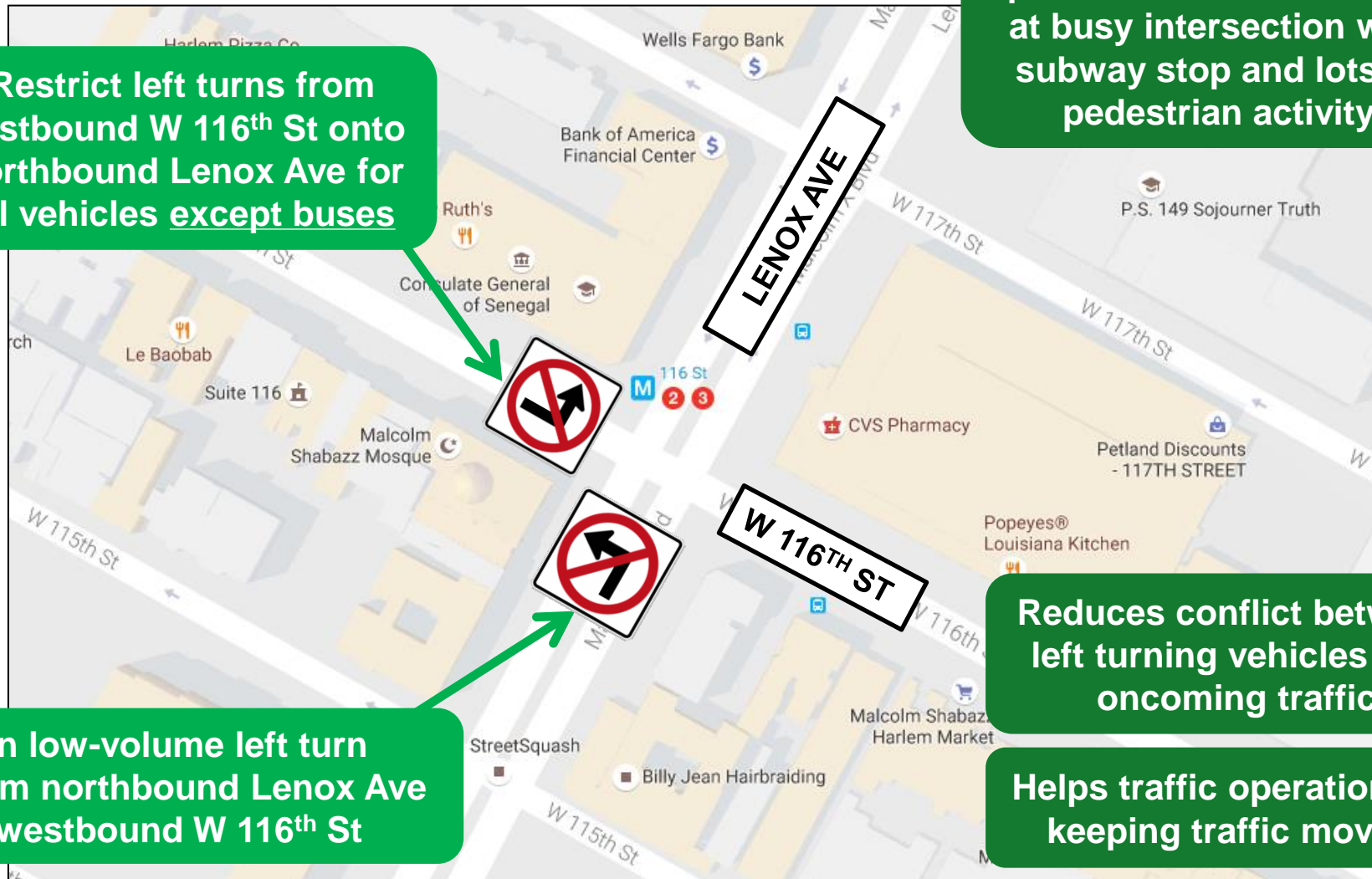
Restrict left turns from eastbound W 116th St onto northbound Lenox Ave for all vehicles except buses

Reduces conflicts between pedestrians and vehicles at busy intersection with subway stop and lots of pedestrian activity

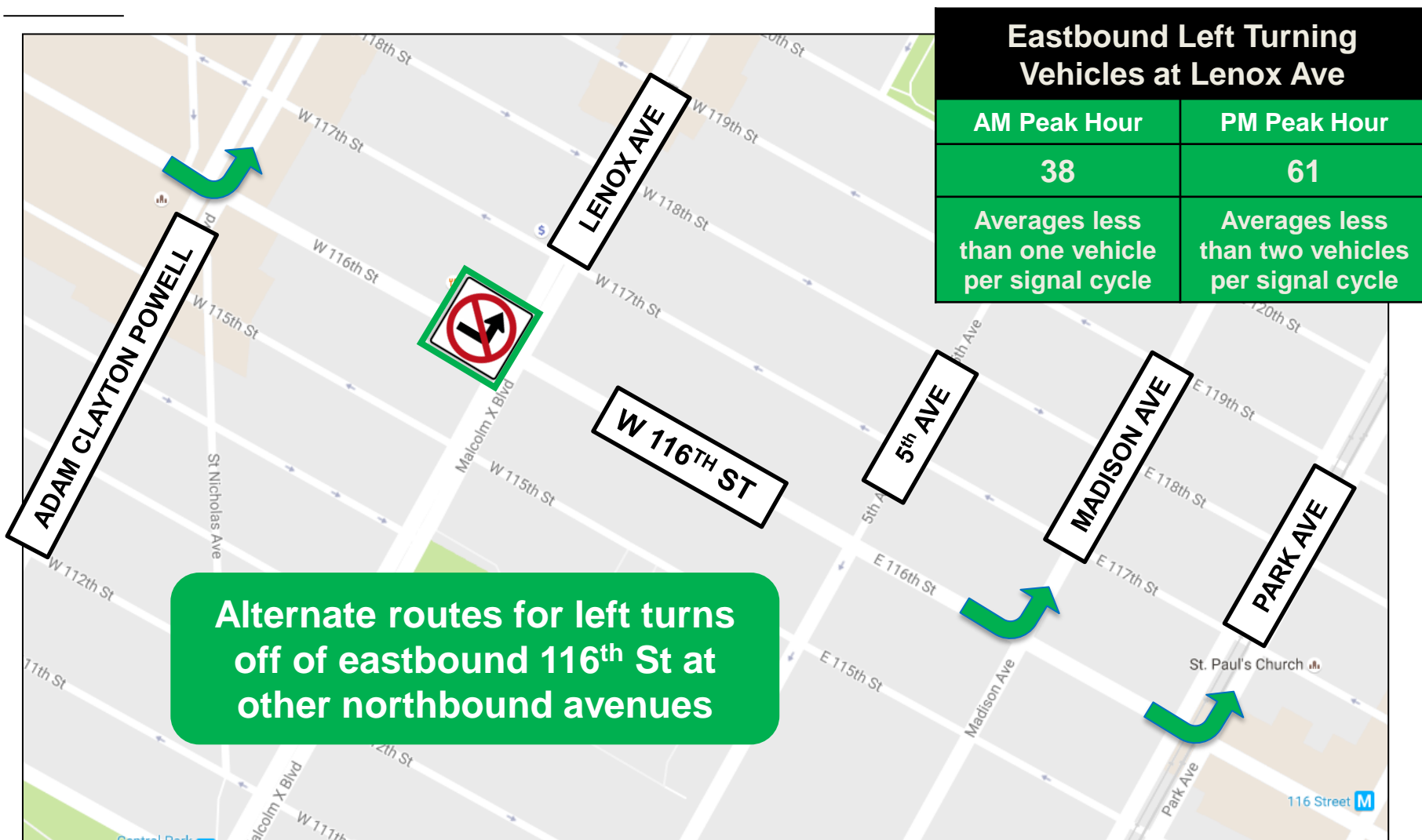
Ban low-volume left turn from northbound Lenox Ave to westbound W 116th St

Reduces conflict between left turning vehicles and oncoming traffic

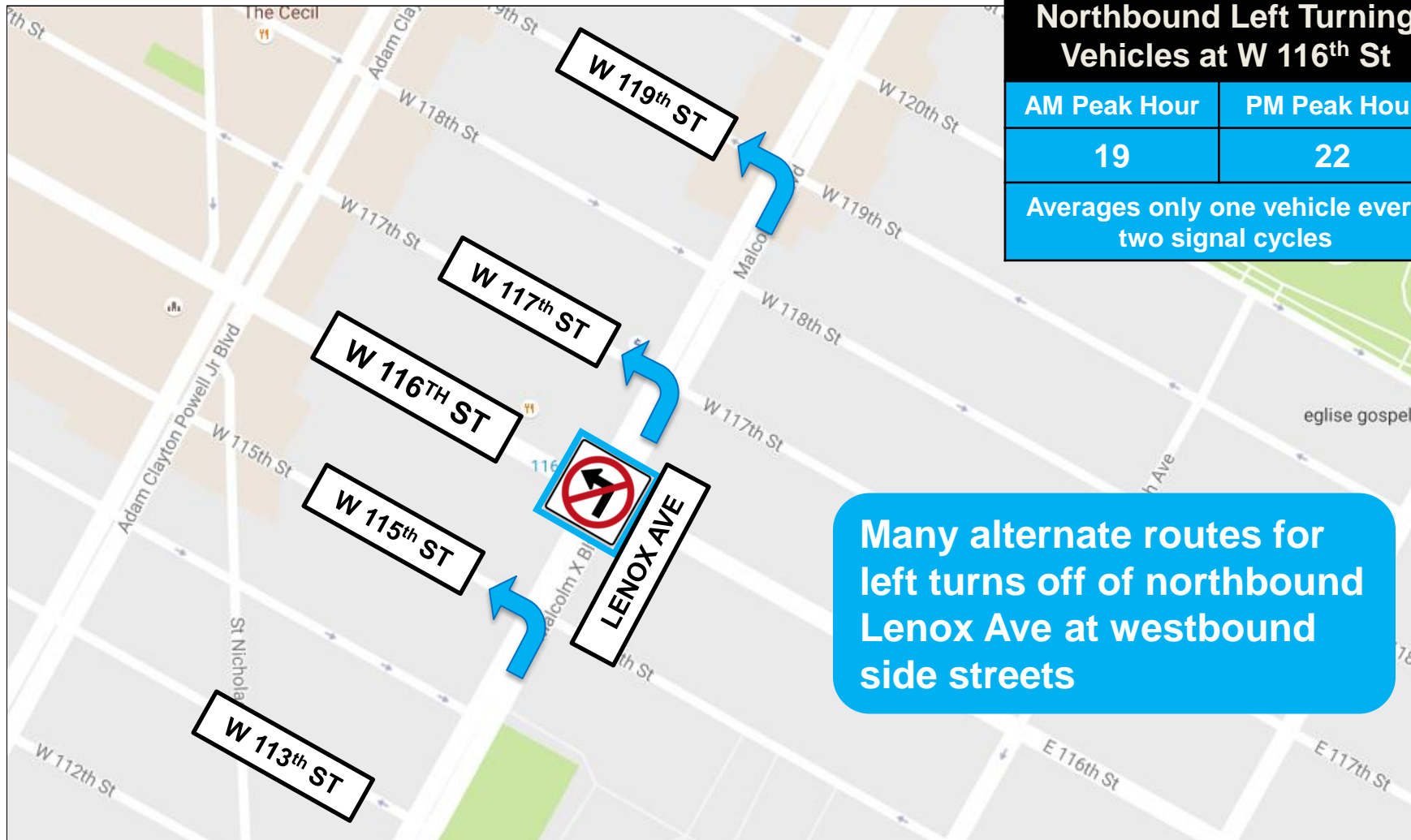
Helps traffic operations by keeping traffic moving



ALTERNATE ROUTES FOR TURN BANS



ALTERNATE ROUTES FOR TURN BANS



W 116TH ST & LENOX AVE: PROPOSED CONCRETE & MARKINGS

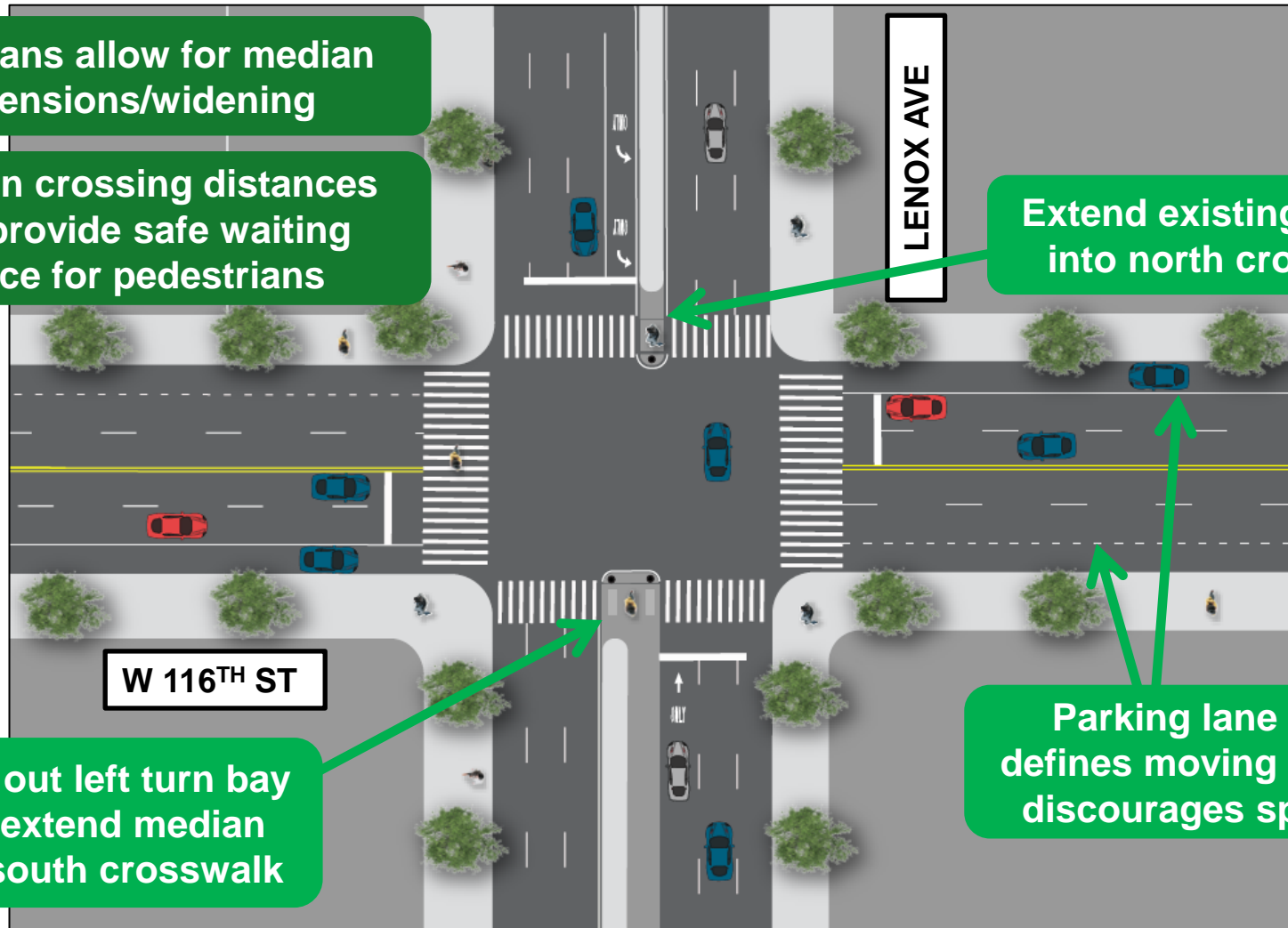
Turn bans allow for median extensions/widening

Shorten crossing distances and provide safe waiting space for pedestrians

Extend existing median into north crosswalk

Build out left turn bay and extend median into south crosswalk

Parking lane stripe defines moving lane and discourages speeding



EXAMPLE SAFETY BENEFIT: LENOX AVE & W 125TH ST

2010 safety improvement project banned all left turns at intersection and widened and extended medians into crosswalks

Pedestrian injuries decreased by 42%



Total injuries decreased 24%

E 116TH ST & 5TH AVE: EXISTING CONDITIONS

High volume of vehicles, including many buses, turning left from westbound E 116th St onto 5th Ave

Left turning vehicles often have to wait until the yellow for a gap

MTA has requested left turn signal at this location



E 116th St at 5th Ave, looking west

E 116TH ST & 5TH AVE: PROPOSED LEFT TURN SIGNAL

Install left turn signal and protected left turn phase for westbound E 116th St

Protects MTA buses and other left turning vehicles from conflict with oncoming traffic

Benefits drivers and pedestrians



SUMMARY AND BENEFITS

Turn restrictions at W 116th St & Lenox Ave:

- Reduce conflicts between turning vehicles and pedestrians at busy intersection with subway
- Reduce conflicts between turning vehicles and oncoming traffic
- Helps traffic operations by keeping traffic moving

Median extensions at W 116th St & Lenox Ave:

- Shortens crossing distances and provides safe refuge for pedestrians
- Create safer crossings for pedestrians by encouraging vehicles to make safer turns

Left turn signal at E 116th St & 5th Ave:

- Gives buses and other vehicles conflict free time to make left turn

Parking lane stripe on 116th St:

- Creates standard width moving lane and discourages speeding
- No loss of parking or changes to parking regulations





THANK YOU!
Questions?



NYC DOT



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