116TH STREET (CB11)

Corridor Safety Improvements

November 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, and senior centers
- 2/3 train 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 Street:
  • Intersections with Lenox Ave and Madison Ave identified as Priority Intersections
SAFETY DATA: PROJECT NEED

116th St (5th Ave to Madison Ave):
- 8 KSI (persons killed or severely injured)
- 72 total injuries

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<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
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All 3 KSI were pedestrian KSI at Madison Ave.
E 116TH ST & MADISON AVE: EXISTING CONDITIONS

Pedestrians get a head start by standing next to parked cars when waiting to cross.

Long crossing distances for pedestrians, especially for seniors and children.

Madison Ave is 55 feet wide.

All pedestrian crashes on Madison occurred in north crosswalk.

Madison Ave at E 116th St, looking north.
E 116<sup>TH</sup> ST & MADISON AVE: EXISTING CONDITIONS

Unconflicted left turns off of Madison Ave onto E 116<sup>th</sup> St result in fast, shallow turns into the crosswalk

High incidence of left turn crashes for pedestrians crossing E 116<sup>th</sup> St

Madison Ave at E 116<sup>th</sup> St, looking south
**E 116<sup>TH</sup> ST & MADISON AVE: PROPOSED CONCRETE & MARKINGS**

- **Build pedestrian island and painted curb extension on Madison Ave**
- **Install plastic bollards on double yellow line on E 116<sup>th</sup> St**
- **Create left turn only lane on Madison Ave for turns onto E 116<sup>th</sup> St to better organize traffic**
- **Upgrade all crosswalks to high-visibility markings and install parking lane stripe**
- **Shortens crossing distances for pedestrians**
- **Pedestrian island and plastic bollards create safer turns**
EXAMPLE SAFETY BENEFIT: 7TH AVE & W 23RD ST

2011 safety improvement project created left turn only lane and installed pedestrian island in painted curb extension across intersection

Pedestrian injuries decreased by 68%

Total injuries decreased 67%

Source: 3-year after analysis using NYPD AIS/TAMS Crash Database
High volume of 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 a left turn signal at this location
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

Pedestrian island in curb extension on Madison Ave:
• Shortens crossing distances and provides safe refuge for pedestrians
• Create safer crossings for pedestrians by encouraging vehicles to make safer turns
• Replaces two parking spaces on Madison Ave

Plastic bollards on E 116th St:
• 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
• Helps process traffic on 116th St

Install parking lane stripe on 116th St:
• Creates standard width moving lane and discourages speeding
• No loss of parking or changes to parking regulations on 116th St
THANK YOU!

Questions?

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