W 178 St (Ft Washington Ave to Wadsworth Ave)

CB 12 Transportation Committee Presentation

March 2020
Project Location

- Project limits: W 178th St, from Ft Washington Ave to Wadsworth Ave; 0.2 miles
- Commercial and residential land use
- Within Washington Heights Senior Area
- A train at W 177th St and Ft Washington Ave, and 1 train at W 181st St and St Nicholas Ave; Bx3, Bx7, Bx11, Bx13, Bx36, M5, M98, and M100 bus routes
- George Washington Bridge Bus Terminal located between W 178th St and W 179th St
- Local truck route along Broadway, W 178th St, and W 179th St

- W 178th St and Broadway is a Vision Zero Priority Intersection
- Project area has 59 total injuries, including 7 severe injuries
- 72% of pedestrian injuries occur while pedestrian is crossing with the signal
  - 83% are left turning vehicles
- 1 motorcyclist fatality at W 178th St and Ft Washington Ave in 2018
Existing Conditions

Corridor Issues

- Long Crossing Distances
- Vehicle Conflicts
- Inadequate Pedestrian Refuge
- Heavy Pedestrian Activity
Existing Conditions

**W 178th St and Ft Washington Ave**

- George Washington Bridge upper level exit merges with W 178th St at Ft Washington Ave
  - EB traffic proceeds during same signal phase, resulting in vehicle conflicts
  - 4 thru travel lanes compete for 2 functional receiving lanes due to lane blockages from bus stop and layover space on the south curb
Existing Conditions

W 178th St and Broadway

• Lack of lane designations at west leg of intersection at W 178 St and Broadway is unorganized creating congestion and unpredictable turning movements
• George Washington Bridge Bus Terminal generates heavy pedestrian and bus activity along corridor
• Left Turning Traffic Calming on EB left on W 178th St and Broadway, 2017
Proposed Intersection Improvements

W 178th St and Ft Washington Ave

- Install right turn only lane to organize intersection movements
- Install bus only lane to formalize layover space and provide safe access to bus stops
- Mark buffer to create standard width moving lanes
- Adjust signal timing to split George Washington Bridge exit and W 178th St to reduce vehicle conflicts
Proposed Intersection Improvements

W 178th St and Broadway

- Install lane designations and buffer to better organize roadway
- Install bus only lane to formalize layover space and provide safe access to bus stops
- Add pedestrian space to provide shorter crossing distances and normalize intersection
- Construct new pedestrian island in south crosswalk to provide refuge and shorten crossing distances
Project Benefits

Corridor Improvements

• Split signal timing reduces vehicle conflicts at W 178th St and Ft Washington Ave

• Lane designations on W 178th St better organizes roadway and creates more predictable vehicular movements

• New concrete island in south crosswalk at W 178th St and Broadway provides pedestrian refuge and shortens crossing distances

• Bus Only Lane on W 178th St between Ft Washington Ave to Wadsworth Ave formalizes layover space and provides safe access to bus stops
Thank You!
Volumes

AM Peak Hour: 7:00-8:00 am
PM Peak Hour: 4:30-5:30 pm

W 178 St and Ft Washington Ave, TMCs collected 10/02/19-10/09/19
Volumes

AM Peak Hour: 7:45-8:45 am
PM Peak Hour: 4:15-5:15 pm

W 178 St and Broadway, TMCs collected 4/30/19-5/01/19