Better Buses Restart – 181st Street Busway Pilot

Manhattan Community Board 12 Transportation Committee – November 2, 2020









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Background







Better Buses Restart

Recovery Plan

9 busway & bus lane projects announced, focused on:

- Vulnerable populations, essential workers
- Number of bus passengers served
- Ability to implement quickly
- Geographic equity









What is a Busway?

- A busway prioritizes bus travel by restricting other traffic traveling through a corridor
 - Includes regulatory signs and bus lane markings
 - Only buses, trucks, and emergency vehicles are allowed to drive continuously along the busway
 - Other vehicles are allowed to turn onto busway for local access, such as visiting a business or pick-up/drop-off, but must make the next available turn off busway
- Thorough evaluation of curb regulations to match the needs of businesses and other entities along the corridor
- Thorough monitoring of bus and traffic operations
- Opportunity for pedestrian safety improvements



14th Street, Manhattan









New York City Frontline Workers, by Neighborhood of Residence





Why 181st Street?

- 42,000 daily passengers on 5 MTA bus routes
- Routes on 181st St serve neighborhoods with high concentrations of essential workers
- Bus passengers comprise 62%-70% of roadway users on 181st St
- Average bus speed is 3.7mph
- 69% of Washington Heights
 and Inwood households do
 not have access to a car







181st St Community Advisory Board Process

- Community Advisory Board (CAB) guides project before, during, and after implementation
- CAB members include:
 - Manhattan Borough President Gale Brewer
 - State Senator Robert Jackson
 - State Assemblymember Carmen De La Rosa
 - Councilmember Ydanis Rodriguez
 - Washington Heights Business Improvement District

- Community Board 12
- Tri-State Transportation
 Campaign
- Riders Alliance
- Yeshiva University
- New York Presbyterian
- NYPD
- FDNY







What We've Heard from the CAB

What We've Heard

Action Items / Next Steps

Street Vending	 BID / SBS meeting 7/29/20 DOT installed 4 city benches and 5 leaning bars at 5 bus stops
Traffic and Truck	 Traffic analysis on 181st St and surrounding streets to
Circulation	determine potential effects of busway
Neighborhood	 Incorporating anticipated increases in trips into traffic
Development	analysis
Loading Needs	 Accommodations in Busway Design Determining optimal curb regulations for whole corridor Scheduling meeting with FDNY
Supporting Local	 Develop business survey to ensure feedback is received to
Businesses	address concerns







Project Timeline



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Existing Conditions







Transit

- 181st St is one of the busiest corridors for buses in the city
- 5 NYCT Routes carrying over 42,000 daily passengers on 181st St
- 50+ NYCT buses per hr during peak hrs
- Connections to 6 bus routes, 1 and A Trains, and GWB Bus Station









Transit Speeds

- Buses are slow and unreliable on 181 St
- Average bus speed is 3.7 mph
- Bus "bunching" causes long waits and overcrowding on buses and at stops



St. Nicholas Ave and 181 St, looking East



Data Source - MTA NYCT, May 2019







Travel Patterns – Transit

- Of the 42,000 daily riders, many are traveling just along 181st St
- 3,660 bus trips on corridor start and end in Manhattan, which would be directly served by the busway

Origins of riders with trips ending on 181st St



Destinations of riders with trips starting on 181st St









Travel Patterns – Transit

- In addition to local trips on 181st St, ridership data indicates significant amount of Manhattan residents benefit from the bus connections to the Bronx
- During morning rush hours (6am-10am), 3,500 passengers are getting on buses on 181st St
- During evening rush hours (3pm-7pm), 5,700 passengers are arriving from Bronx to 181st St











Mode Split

Bus passengers comprise 62%-70% of roadway users on 181 St*



*Between Audubon Ave and St Nicholas Ave

Bikes

Data Sources: MTA NYCT, DOT Traffic Counts







Travel Patterns – Commuting

- 18,730 people work in Washington Heights who do not live in the neighborhood
- Many rely on public transit to access
 Washington Heights
- 5,900 bus riders on 181st St coming from the Bronx during morning peak hours (6am-10am)

Commuting Patterns



Source: NYC SBS - Commercial District Needs Assessment, US Census







Travel Patterns - Vehicles

- Using Streetlight, an analysis tool that utilizes GPS data, DOT is studying traffic patterns in the area
- Almost half of all traffic is "cutthru" traffic with destination other than 181st St
- Cut-thru traffic could be redirected to larger roadways (e.g. Cross Bronx, 178 St, 179 St)

Traffic on 181st St











Travel Patterns - Vehicles

29% Amsterdam Wadsworth Av 184 St Broadway Ft Washington Av 183 St 🛓 hola ₹ 182 St 181 St 33% 5% 180 St 179 St Cross Bronx Expwy 178 St 33%

Vehicles with 181st Street Destination

- Majority of vehicles with destination on 181st St already using cross streets
- DOT will continue to analyze these data to determine busway effects on traffic network

Source: Streetlight







Local Businesses

- Surveys indicate that 88% of people get to Washington Heights businesses via walking or public transit
- Busway would support transit use and walking
- As project develops, DOT will continue to work with local businesses, BID, and SBS to address concerns

How people get to businesses in Washington Heights





Source: NYCSBS - Commercial District Needs Assessment, CLOTH







Community Engagement







Online Project Website

- Launched online website detailing information about the project
- Feedback map allows for comments at specific locations
- Available in multiple languages (via Google Translate)



https://nycdotprojects.info/181St-Busway







Online Survey

- Online survey for general public to gather feedback
- Available in English and Spanish
- www.surveymonkey.com/r/181st



NYC DOT is studying a busway on 181st Street between Broadway and Amsterdam Avenue. A busway prioritizes the movement of Buses, Trucks, Access-A-Ride, and Emergency Vehicles. General vehicles would still be able to access 181st Street for delivery, shopping, and pickup/drop-off, but must make the next available turn off of the corridor.

We'd like your help, this survey will only take a few minutes. Thanks, we really appreciate it!







Business Outreach

- In November 2019, NYC DOT Street Ambassadors surveyed businesses on 181 St corridor to learn about loading and delivery needs
- Issues identified
 - Double parking
 - Lack of access to the curb for deliveries and loading
 - Traffic congestion











Business Outreach

- DOT will develop specific online survey for businesses as part of monitoring plan
- Committed to hearing from businesses to ensure that needs are accommodated where feasible
- Design can be adjusted after implementation if concerns arise

Example questions from 14th St Survey

Since the 14th Street Project changes, the number of customers visiting my business has:



Since the 14th Street Project changes my business has...



"Business is about the same, we receive about the same amount of customers as before as we have a lot of foot traffic."

Source: Sam Schwartz Engineering







Traffic and Parking Analysis







Traffic Analysis

Traffic Modeling

- Builds off model created by Port Authority for GWB Bus Terminal project
- Model calibrated with latest traffic counts available (Fall 2019)
- Additional investigation of GPS data to determine origins and destinations of vehicles on 181st St
- Detailed results including:
 - Expected bus speed improvements
 - Anticipated traffic diversions









Traffic Analysis

Fridays

- Traffic analysis will focus on weekday morning and evening rush hours, which are the most congested time periods
- Will also look specifically at Friday afternoons/ evenings











Traffic Analysis – New Development

New development to be incorporated into model

- 1. Coliseum Theater Redevelopment
- 2. Target
- Supermarket 312 Audubon Ave/544 W 181st St
- WHIN Charter School
 508 W 181st St
- 5. 2420 Amsterdam Ave (hotel/commercial)









Parking Analysis

Time Lapse Study

- Images taken every minute between 6am and 10pm between Thursday, January 9 and Monday, January 13, 2020
- DOT parking analysis tool provides detailed results including:
 - Parking duration
 - Illegal parking/loading/unloading
 - Double parking
 - Types of vehicles parking/loading
- Parking regulations will be catered to specific needs of individual blocks









Construction Coordination

- Coordinating with DOT Bridges, DDC, and MTA on current construction projects
- Current projects include:
 - Washington Bridge Rehabilitation
 - 181st St 1 Train Station Elevator Replacement
 - Curb extensions at 181st St / Broadway and 181st St / St. Nicholas Ave
- Traffic patterns will be monitored during construction

2 subway stations in Washington Heights closing to replace 'critical' elevators

Center Lane Closure ember 15, 2019 ours n-bound lanes will remain open.



Washington Bridge Notice:

Repairs of the Washington Bridge over the Harlem River (181st Street) will require all hours closure of the Manhattan-bound center lane until further notice.

Both the left and right Manhattan-bound Lanes will remain open.

NYC 311

NYC Emergency Management NYPD 23rd Precinct NYPD 25th Precinct NYPD 40th Precinct Manhattan Community Board 11

Bridge over t



The 181st Street No. 1 train subway station will close from March 2021 until February 2022 so its elevator can be replaced. Photo Credit: Jeff Bachner

Photo Source: AMNY

0 comments Posted on December 18, 2018





By Vincent Barone



Preliminary 181st Street Busway Proposal







Preliminary Busway Proposal

- Busway Extents:
 - Eastbound
 - Broadway to Amsterdam Av
 - Westbound
 - Amsterdam Av to Wadsworth Av
- Busway hours TBD
- Busway will be adjusted based on feedback and traffic analysis



Only Buses and Trucks permitted eastbound on 181 St between Broadway and Wadsworth Av Due to Washington Bridge rehabilitation, westbound vehicles coming off bridge may continue on 181 St but would have to turn right at Audubon Av. Eastbound vehicles may continue onto bridge







Broadway – Wadsworth Ave: Existing Conditions





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Broadway – Wadsworth Ave: Preliminary Proposal





St. Nicholas Ave: Existing Conditions





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St. Nicholas Ave: Preliminary Proposal









Audubon Ave – Amsterdam Ave: Existing Conditions









Audubon Ave – Amsterdam Ave: Preliminary Proposal



Preliminary Busway Proposal Summary

- Busway Extents:
 - Eastbound
 - Broadway to Amsterdam Av
 - Westbound
 - Amsterdam Av to Wadsworth Av
- Local access permitted on all blocks except eastbound between Broadway and Wadsworth Av
- Parking will be available for pick-up/drop-off activity, short-term parking, and loading/unloading
- Busway hours to be determined
- Busway will be adjusted based on feedback and traffic analysis







Next Steps









- Incorporate feedback received this evening into proposal
- Completion of traffic analysis and parking study
- Review of online feedback
- Revise busway proposal
- Present analysis results and revised busway proposal to CAB and CB12







Thank you

Questions?









