

Fixing the Street – New Design Approaches for Better Bus Service

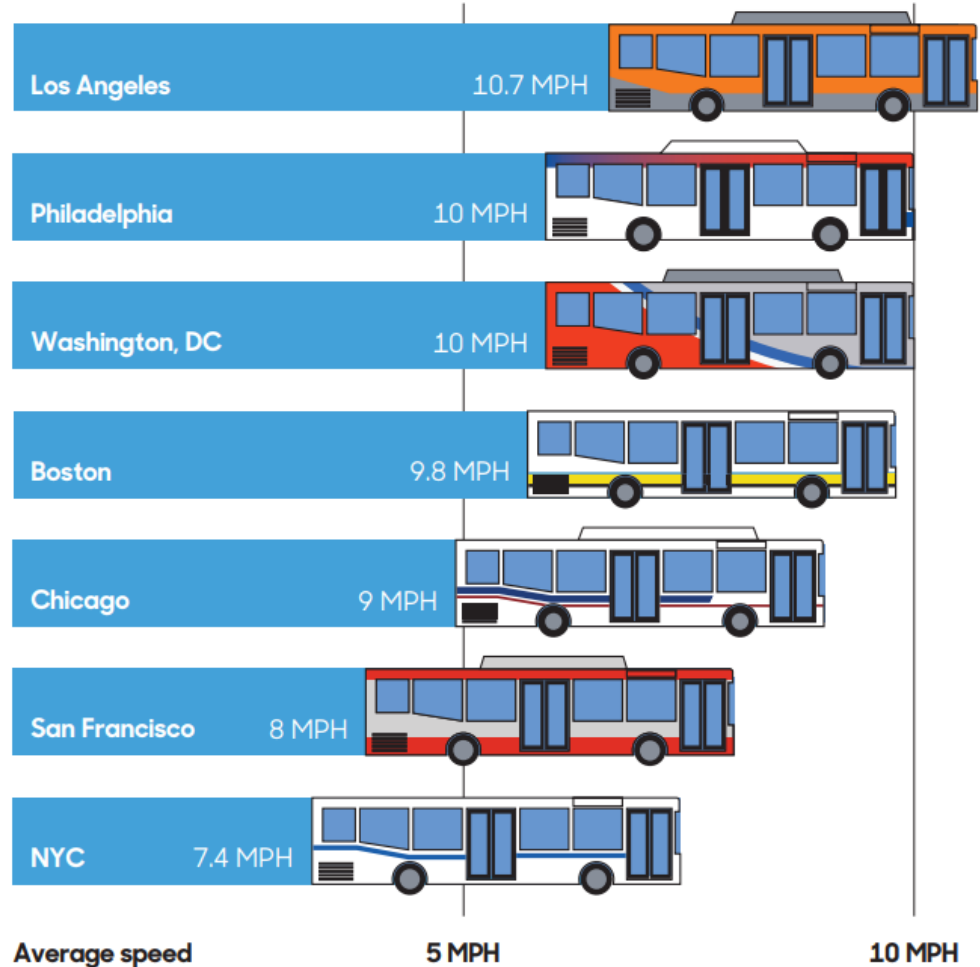
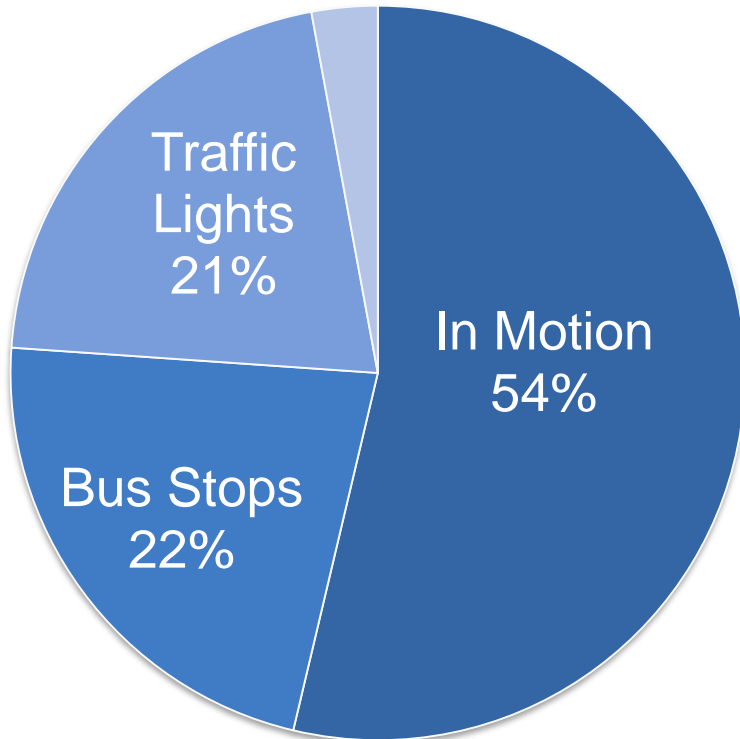


Design with Bus Transit in Mind
APTA Bus & Paratransit Conference
May 8, 2018

We're #1! (In Slowest Buses)

Average Typical Weekday Speeds, 2014

New York City has the slowest buses in the US

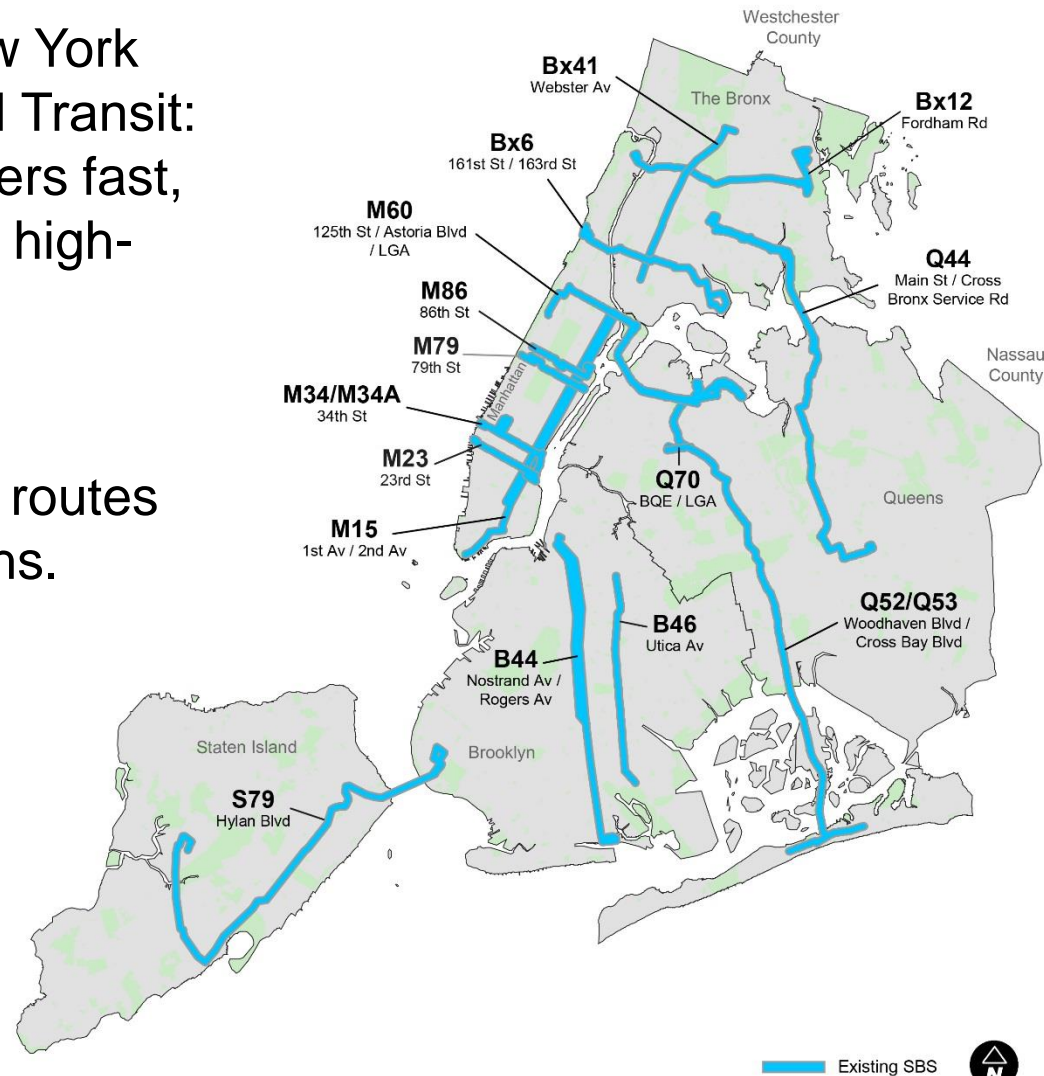


Source: NTD, TransitCenter

Select Bus Service in New York City

Select Bus Service (SBS) is New York City's brand name for Bus Rapid Transit: an improved bus service that offers fast, frequent, and reliable service on high-ridership bus routes.

There are 15 Select Bus Service routes in operation serving all 5 boroughs.



Select Bus Service Features

Dedicated Bus Lanes



Signal Priority for Buses



- **Faster** bus rides
- **Reduced traffic conflicts** between buses and traffic
- **More reliable** bus service
- Buses spend **less time stopped** at red lights

Off-Board Fare Collection



All-Door Boarding



- **Quicker** bus boarding
- Buses spend **less time waiting** at bus stops

Select Bus Service Features

Improved Station Amenities



Real-Time Passenger Information



- **More attractive, appealing** bus stops
- **Better trip information** for riders to **know when** the bus is coming
- **More comfortable wait** for the bus

Pedestrian Safety Improvements



- **Better visibility** for pedestrians, bus operators, and drivers
- **Clearer, shorter** pedestrian crossings

Buses

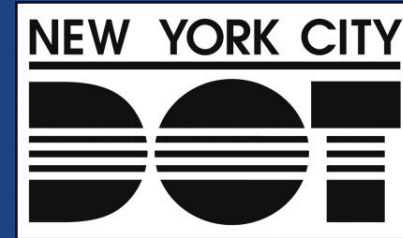


Streets





&



+selectbusservice

SBS Implementation: In-House



SBS Implementation: In-House



SBS Implementation: Capital

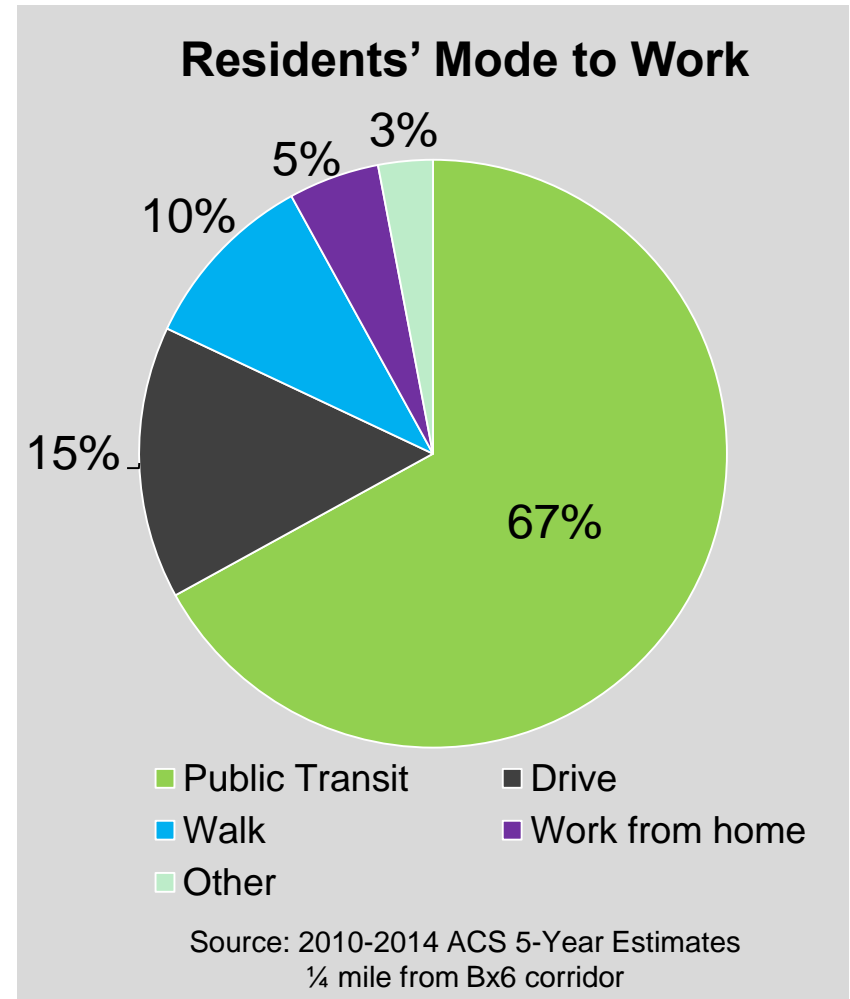


Bx6 Select Bus Service

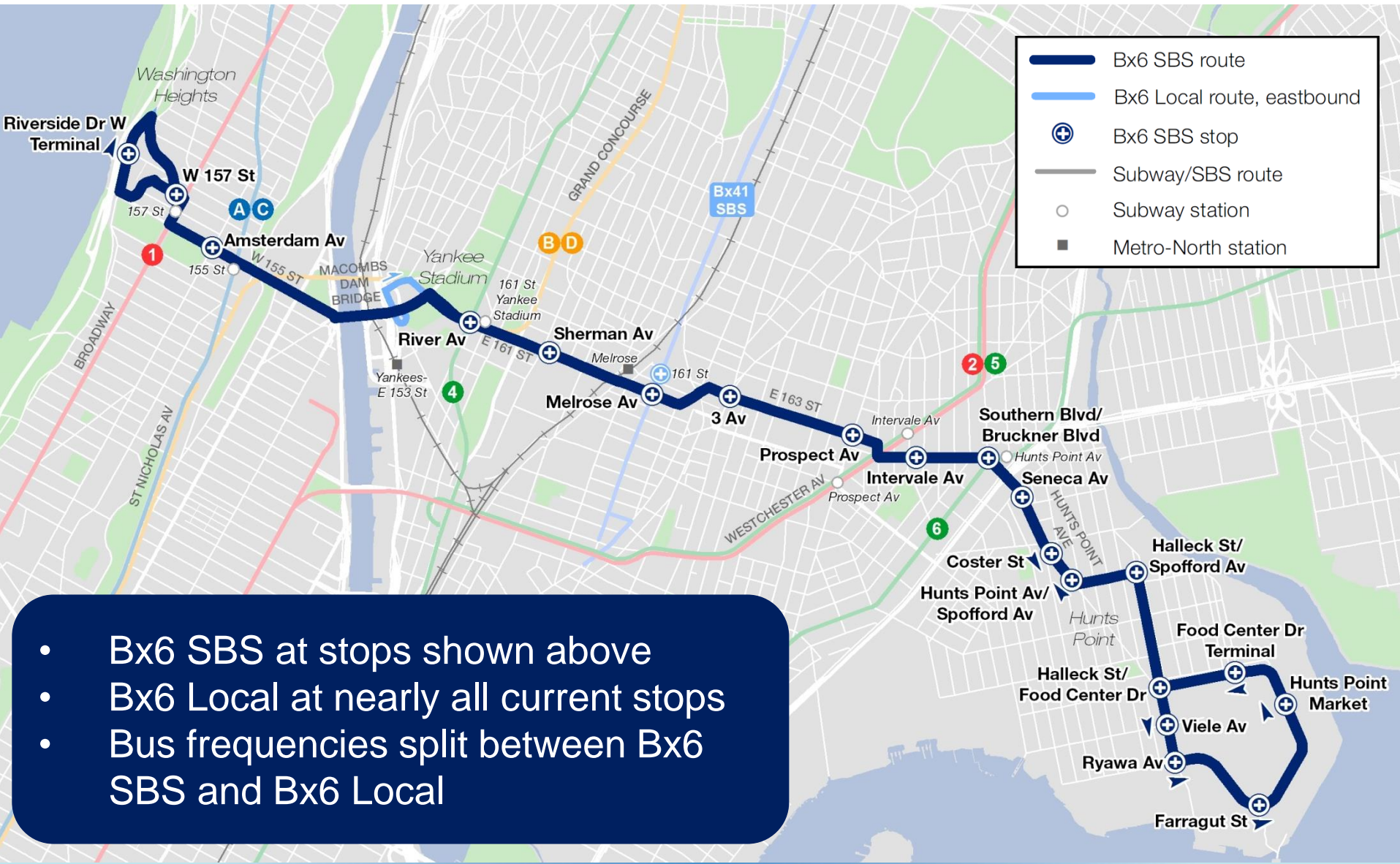
Bx6 Background

The Bx6 South Bronx corridor was identified as a potential candidate for Select Bus Service in the 2009 Bus Rapid Transit Phase II Study.

- Serves nearly 25,000 daily riders
- Connects to 1 / C / 4BD / 25 / 6 subway lines, Metro-North, and 20 bus routes, including Bx41 SBS
- 76% of households within a quarter-mile of the route do not own a vehicle

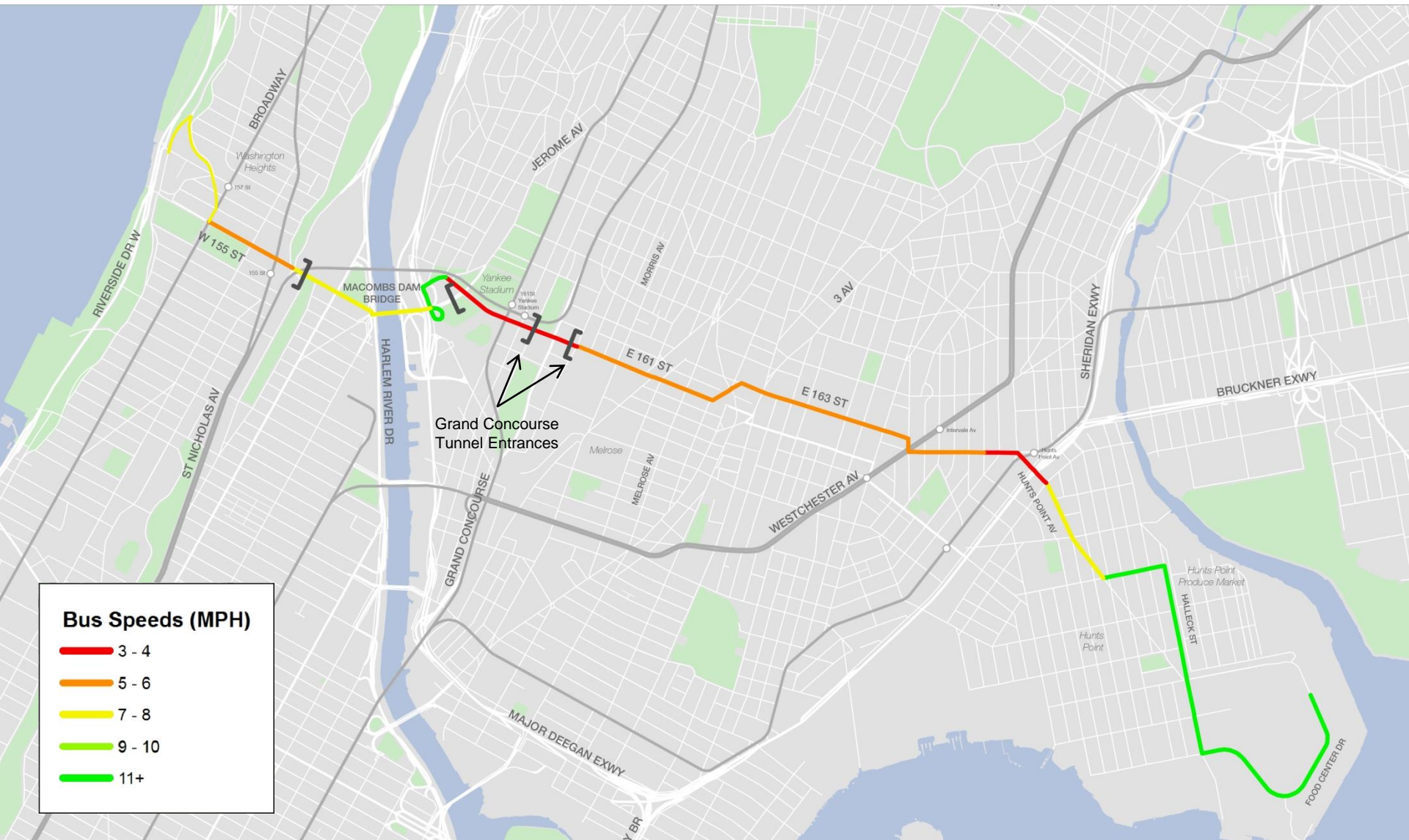


Bx6 SBS Stops



Before Bx6 Bus Speeds

Eastbound 7-10 AM



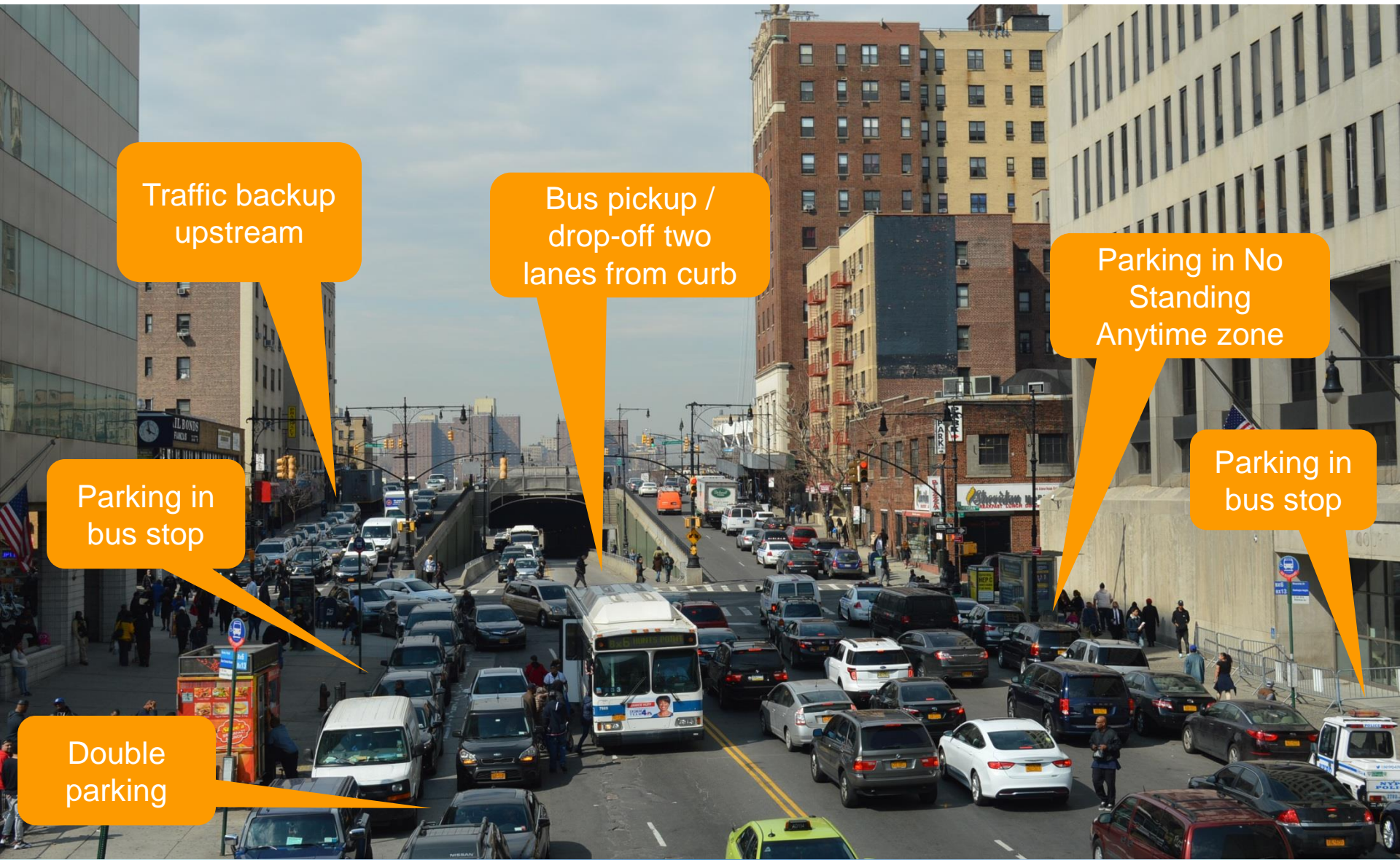
Before Conditions: Narrow Sidewalks

People walking in north “sidewalk”:

- 163 (7:30-8:30 AM)
- 132 (4:30-5:30 PM)



Before Conditions: Congestion



Traffic backup upstream

Bus pickup / drop-off two lanes from curb

Parking in No Standing Anytime zone

Parking in bus stop

Parking in bus stop

Double parking

Before Conditions: Parking in Bus Stops

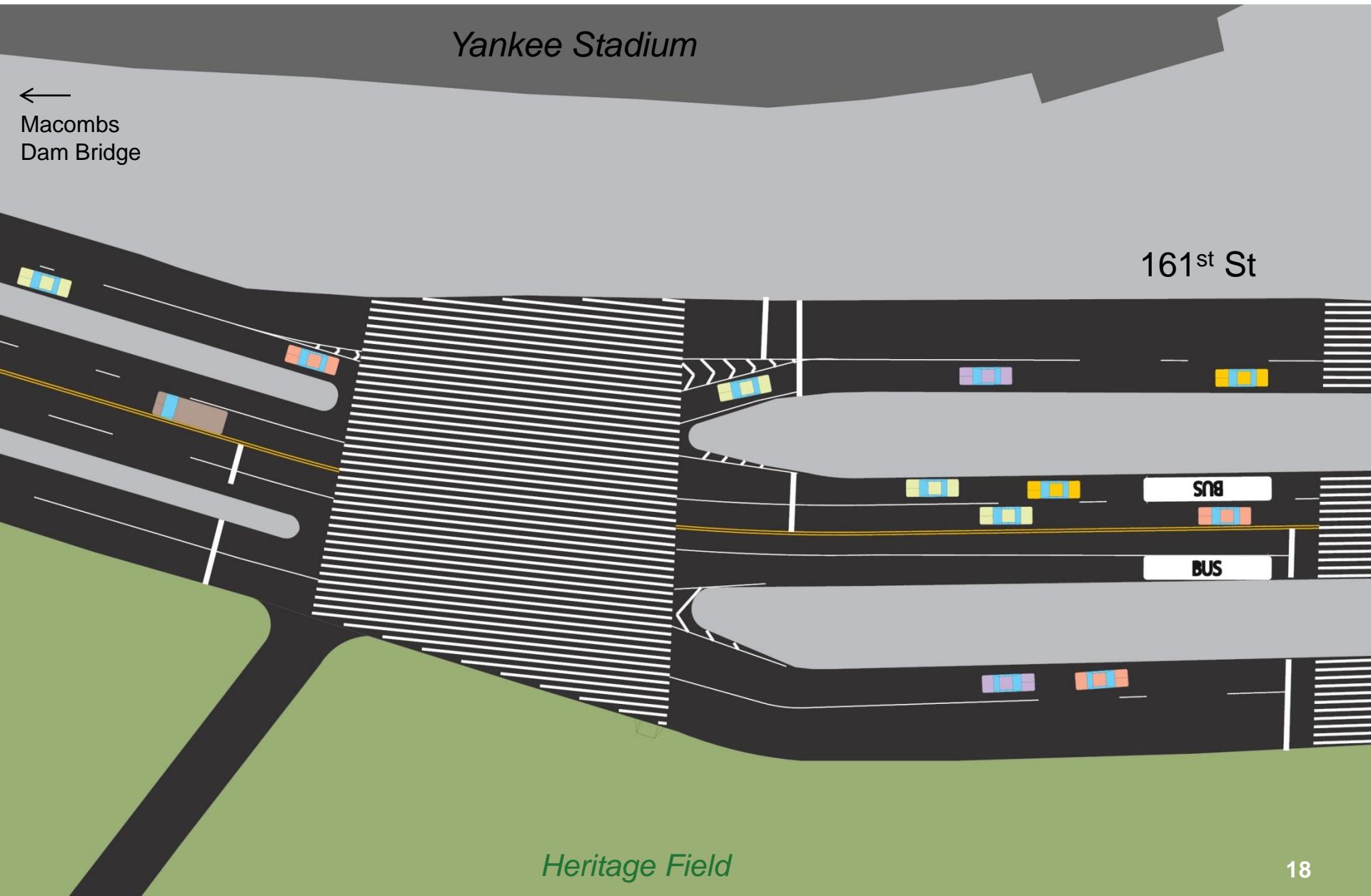
Bus can only access curb:

- 14% of time at Sherman Av westbound
- 6% of time at Concourse Village W eastbound

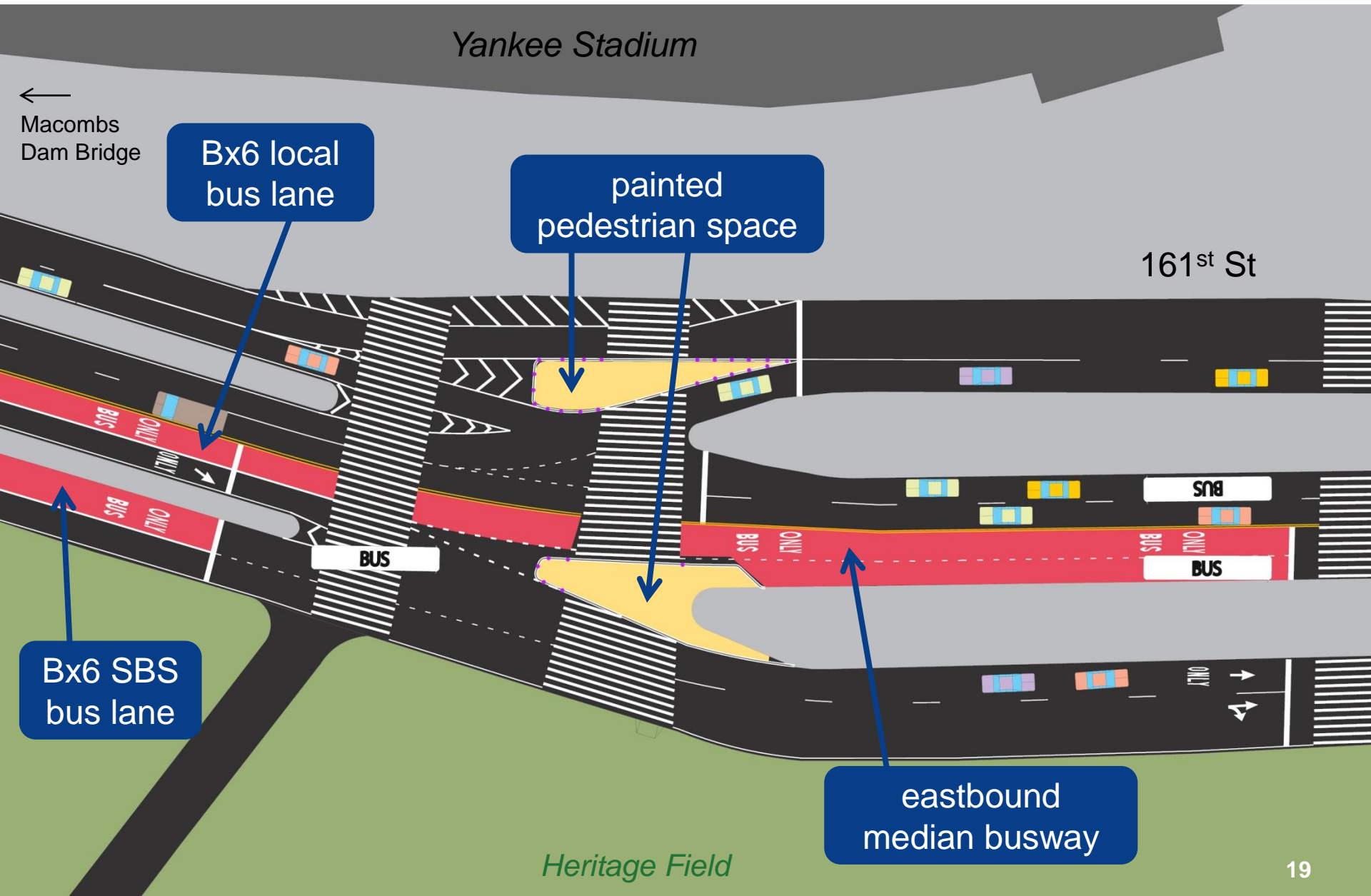


7am-7pm on an average weekday

Yankee Stadium (Before)



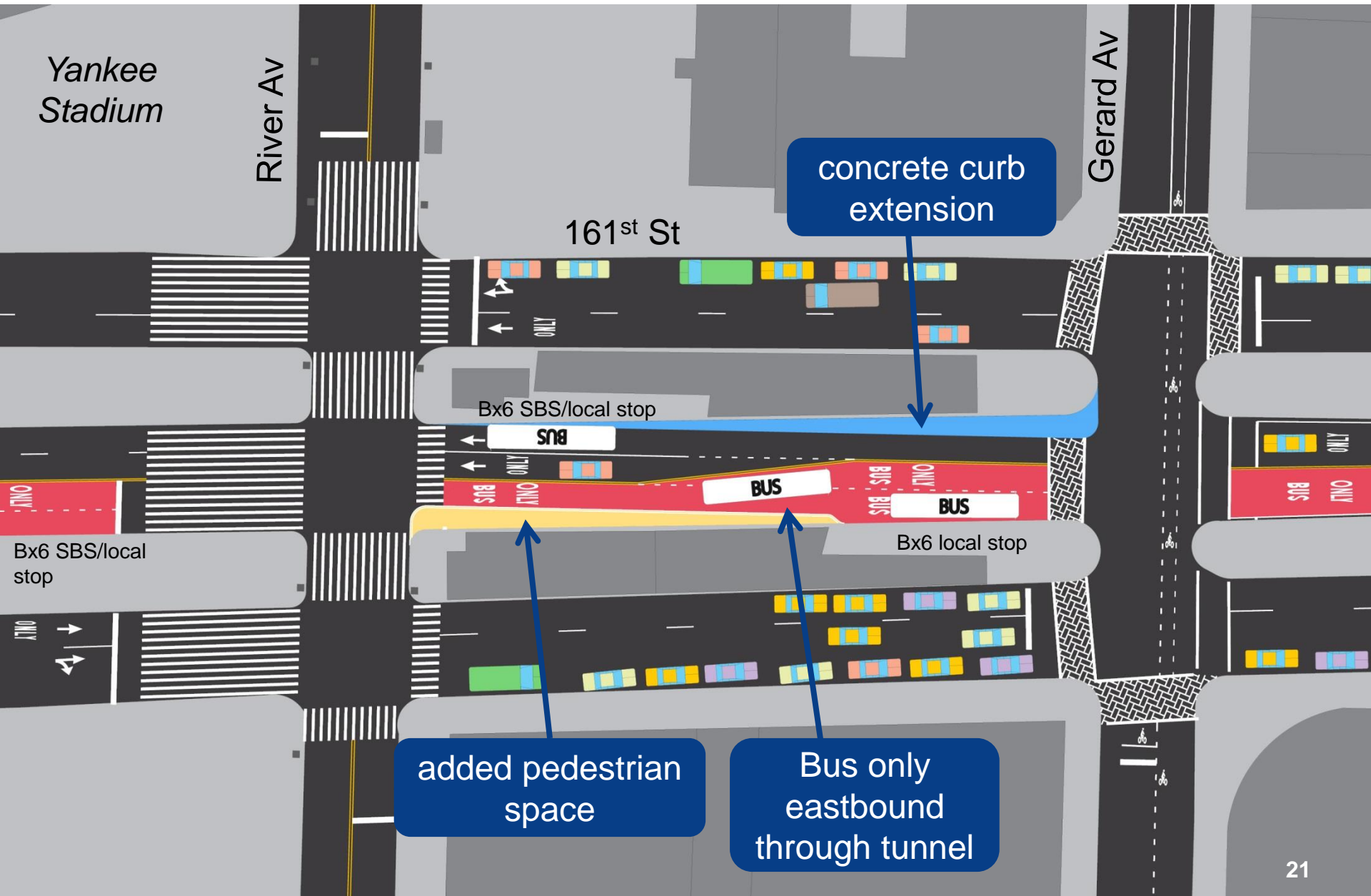
Yankee Stadium (After)



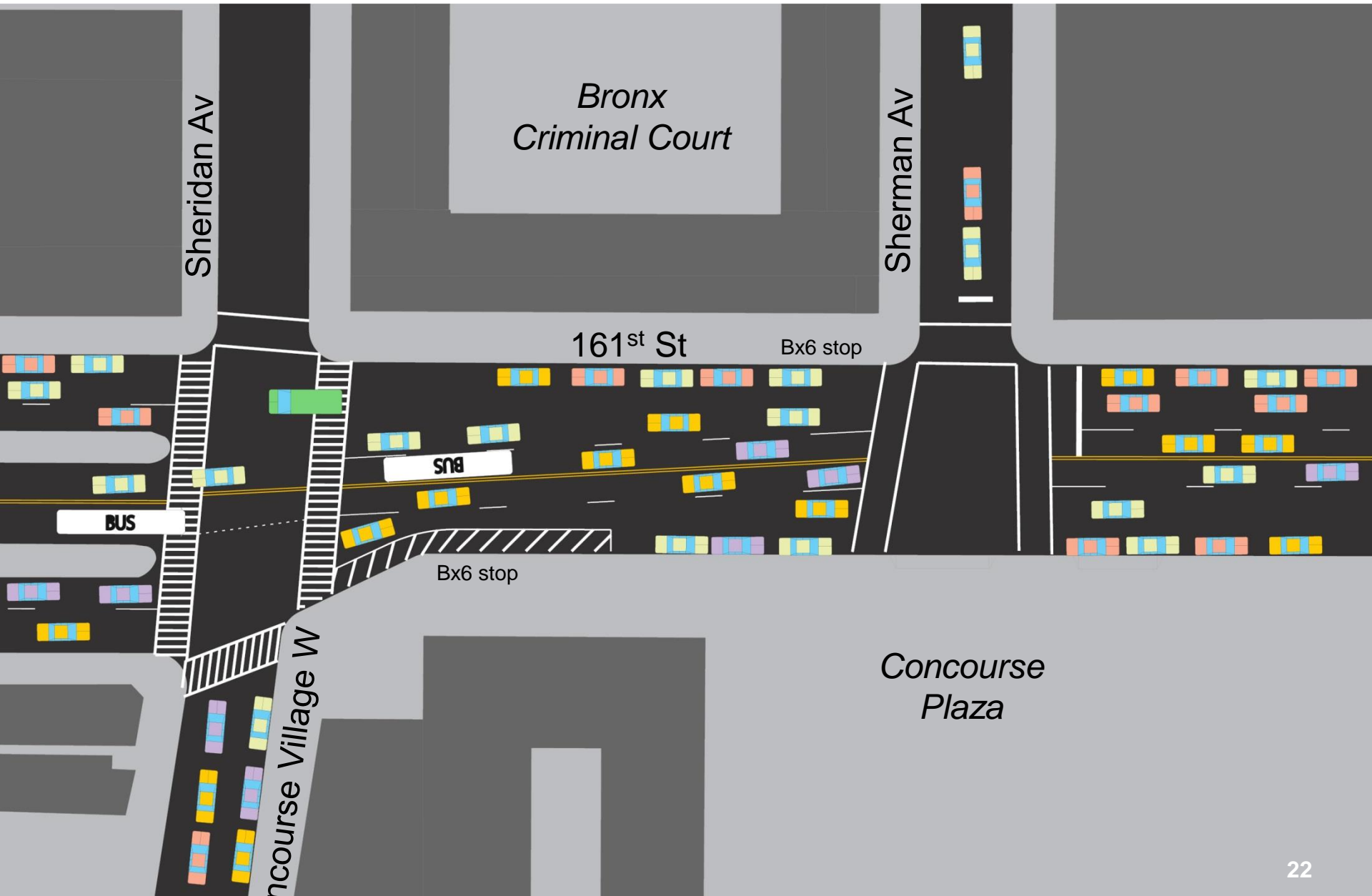
River Av to Gerard Av (Before)



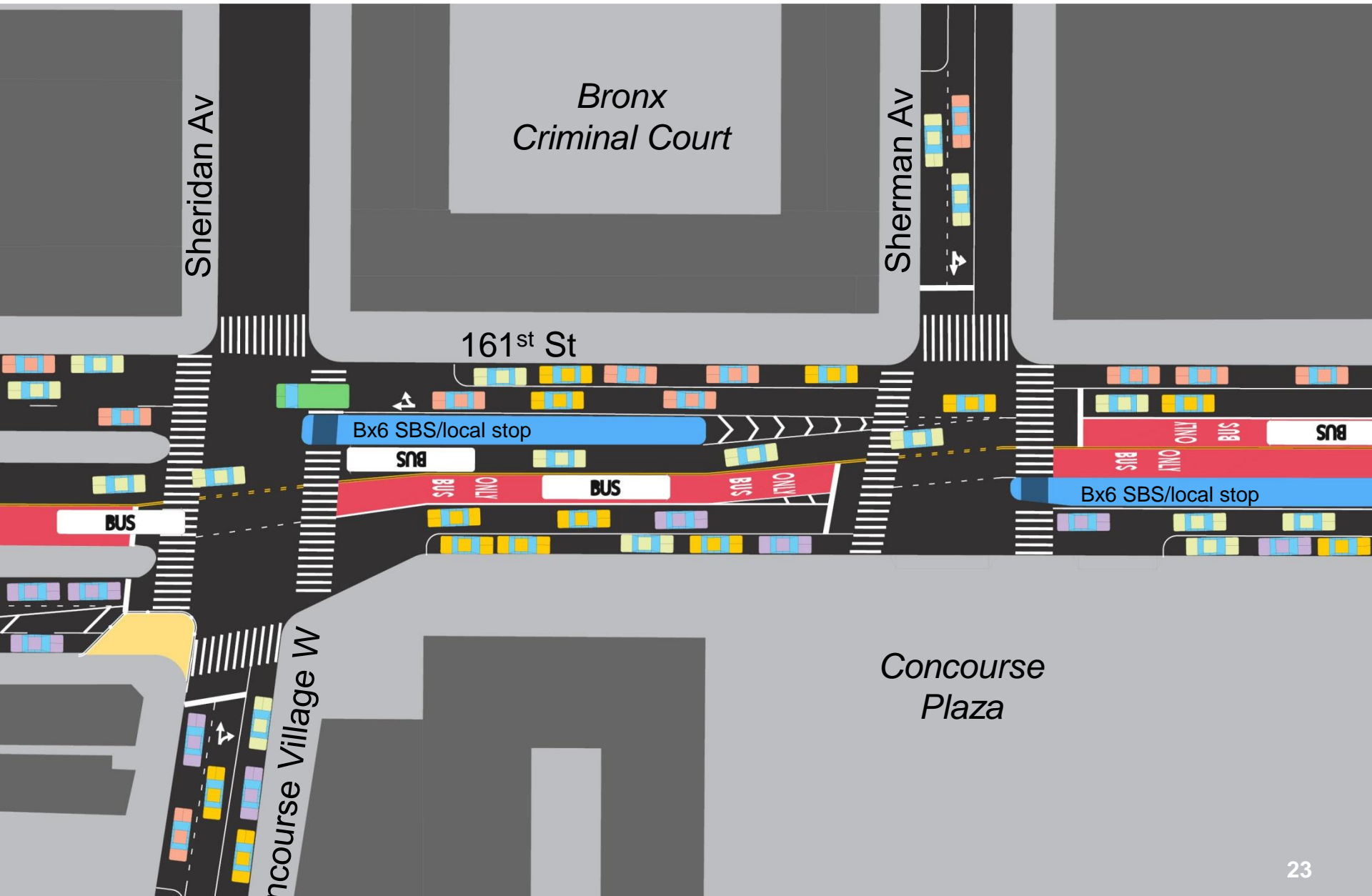
River Av to Gerard Av (After)



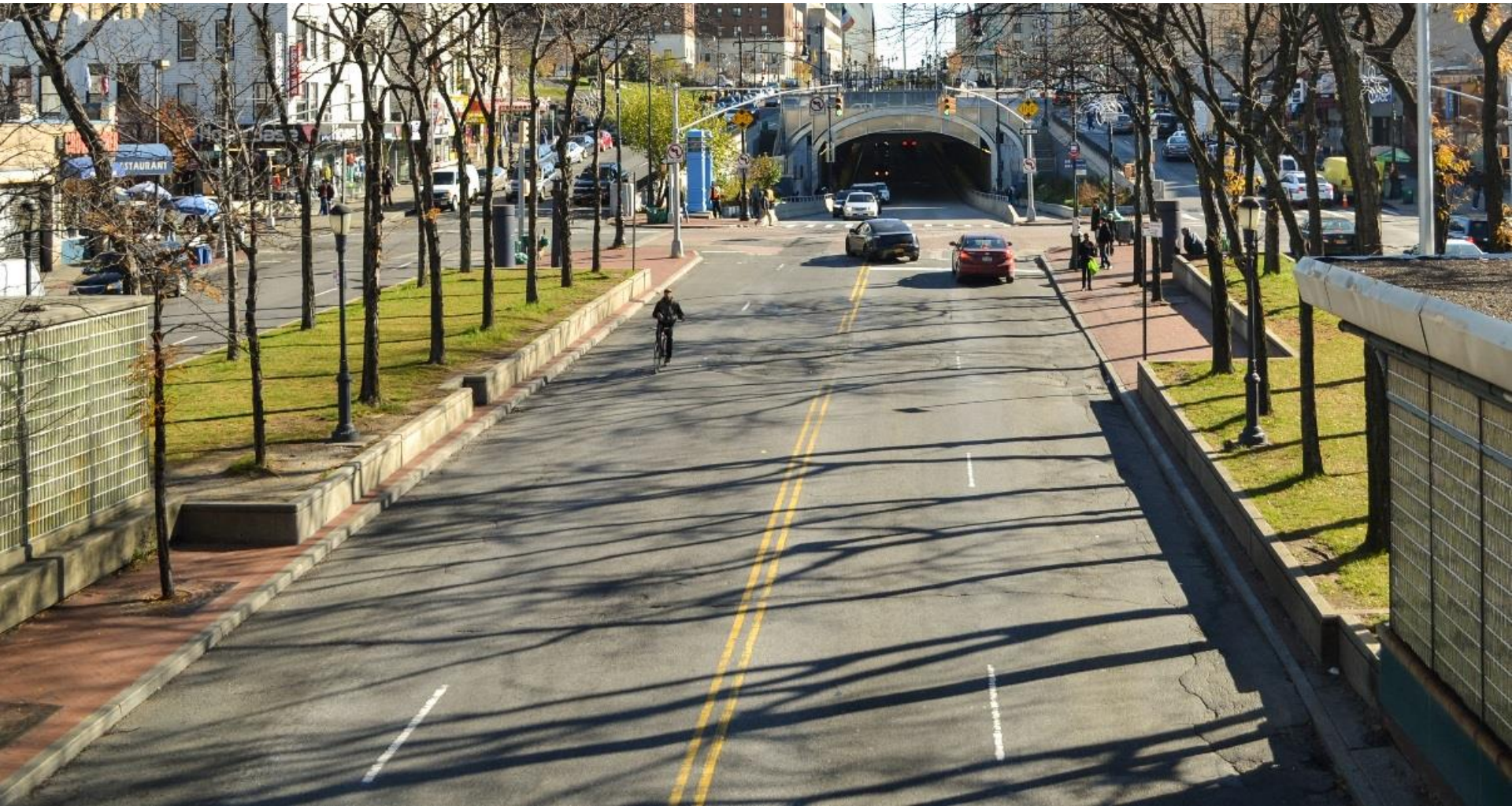
Sheridan Av to Sherman Av (Before)



Sheridan Av to Sherman Av (After)



161st St and River Ave (Before)



161st St and River Ave (After)



161st St and Sherman Ave, Looking West (Before)



161st St and Sherman Ave, Looking West (After)



161st St and Sherman Ave, Looking East



161st St and Sherman Ave, Looking East



161st St and River Ave, Looking West



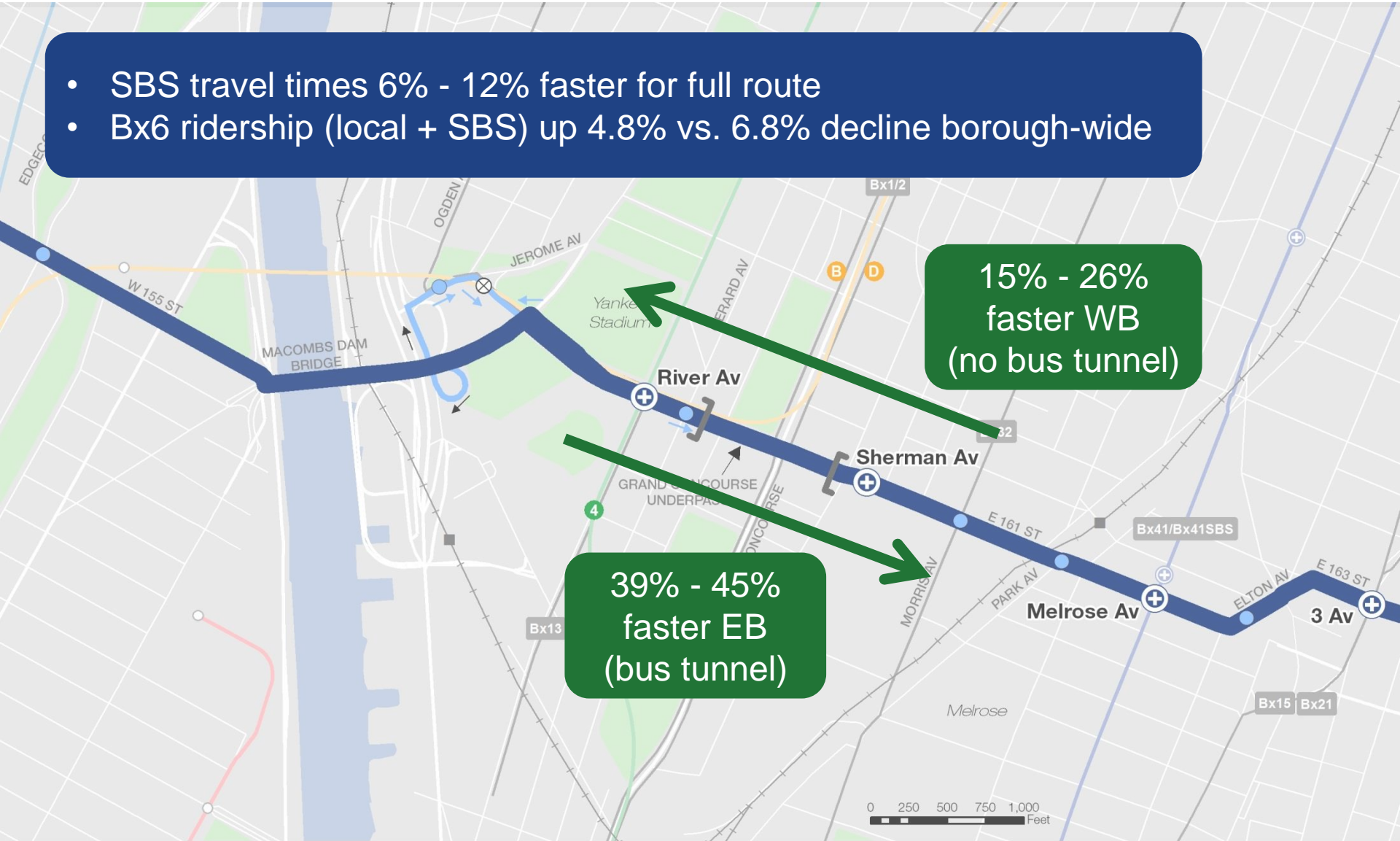
Bx6 SBS Early Results

Travel Time Reductions

- SBS travel times 6% - 12% faster for full route
- Bx6 ridership (local + SBS) up 4.8% vs. 6.8% decline borough-wide

15% - 26%
faster WB
(no bus tunnel)

39% - 45%
faster EB
(bus tunnel)



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Thank You!

