

Public Works & Transportation Budget Hearing

May 7, 2020



Public Works & Transportation Budget Hearing

Agenda

- **Public Works Operating Budget**
Michael Brohel & Chris Osgood
- **Transportation Operating Budget**
Greg Rooney, Amy Cording, Coleman Flaherty, & Vineet Gupta
- **Public Works & Transportation Capital Budget**
Greg Rooney, Vineet Gupta, Stefanie Seskin, Para Jayasinghe & Chris Osgood

PWD Operating Budget Overview

Principal Goals

1. Deliver exceptional basic city services to our constituents
2. Efficiently maintain and modernize the City's vehicle fleet
3. Lead the City's response to winter weather
4. Design & construct great streets

FY '21 Budget Summary

	FY '20	FY '21	Δ
Public Works	\$100.3m	\$100.7	\$0.4m
Central Fleet	\$3.1m	\$3.0m	-\$0.1m
Snow Removal	\$24.8m	\$25.1m	\$0.3m



Public Works



PWD: Waste Reduction Division

Division Snapshot

	FY '20	FY '21	Δ
Waste Reduction	\$55.1m	\$57.2	\$2.1m

Budget Δ: \$500,000 Zero Waste Investment; CPI increase

Division's Focus:

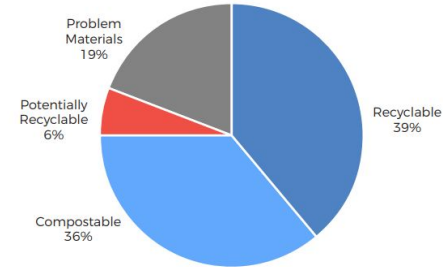
- **Collects and disposes** of yard waste, recycling and trash for residents citywide.
- Enforces all **Code Enforcement** rules.
- Leads the City's residential **Zero Waste** efforts.

Selected FY '20 Highlights

- Launched new contracts for collections and disposal
- Published the City's first Zero Waste Plan.
- Implemented a new contract for delivering recycling bins. This first-of-its kind PWD contract was awarded to two local MBE companies.

FY '21 Goals

What Boston Throws Away



Source: Perlmutter Associates 2018, derived from MSW Consultants "2016 Waste Characterization Study in Support of Class II Recycling Program" (Saugus, SEMASS, Haverhill)

Zero Waste Composting Investments in FY '21

- \$200,000 to subsidize the City's curbside compost pickup pilot
- \$33,500 to double Project Oscar compost bins from 5 to 10

Zero Waste General / Recycling Investments in FY '21

- \$100,000 to expand our Zero Waste marketing campaigns
- \$100,000 for support to test and evaluate ZW strategies
- \$66,500 for a Zero Waste residential programs coordinator

PWD: Central Fleet Maintenance

Division Snapshot

	FY '20	FY '21	Δ
Central Fleet	\$3.1m	\$3.0m	-\$0.1m

Budget Δ: Shift in waste removal charges; EV investments

Division's Focus:

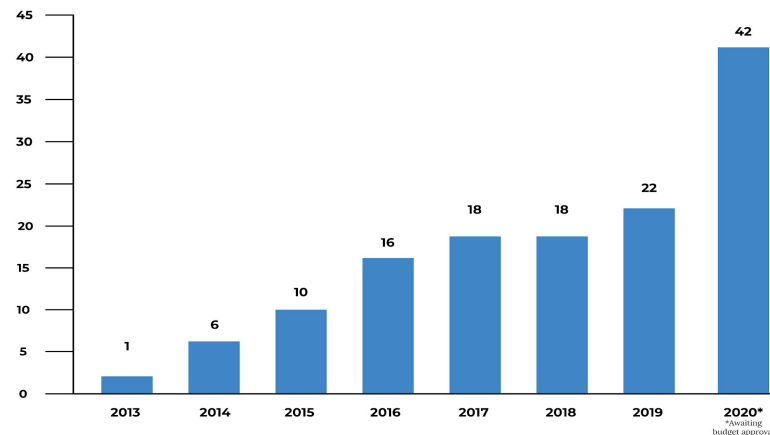
- CFM maintains vehicles for over **19 City Departments**.
- CFM leads the effort to **green the fleet**
- CFM manages the **Fleet Hub** Program, runs a CDL Driving School and oversees most of the City's fueling stations.

Selected FY '20 Highlights

- *Electrifying the Fleet:* Developed a plan to fully electrify the fleet, where possible, by 2035.
- *Right-Sizing the Fleet:* In FY'20, Central Fleet began working on a new vehicle utilization policy with the ultimate goal of right-sizing the City fleet and eliminating or re-assigning under-utilized vehicles and equipment.

FY '21 Goals

NUMBER OF ELECTRIC VEHICLES PURCHASED IN THE CITY OF BOSTON MUNICIPAL FLEET



Central Fleet Initiatives in FY '21

- Adding 20 electric vehicles to the fleet, nearly doubling the number of electric vehicles in the City fleet.
- Investing \$100,000 to add 36 EV charging stations at 6 municipal sites

PWD: Street Lighting

Division Snapshot

	FY '20	FY '21	Δ
Street Lighting	\$11.6m	\$10.7m	-\$0.9m

Budget Δ: \$700,000 due to utility savings from efficiency

Division's Focus:

- PWD Street Lighting maintains 67,000 **street lights**, 18,000,000 feet of electrical cable
- Leads the implementation and oversight of work with telecommunications companies building out **distributed antenna systems**.

Selected FY '20 Highlights

- Implemented improved inventory management.
- Created the Distributed Antenna System compliance team.
- Piloted smart street lighting, where wifi-enabled nodes allow for remote monitoring and analysis of a street light.

FY '21 Goals



Street Lighting Initiatives in FY '21

- *Stray voltage mitigation program*: upgrading existing infrastructure; isolating and resolving issues with Eversource
- *Asset Management*: Implementing an asset management and asset tagging program for street lighting
- *Professional Development*: Rolling out CAD training to make plan review more efficient and expanding electrical training for existing staff

PWD: Highway & Snow

Division Snapshot

	FY '20	FY '21	Δ
Highway	\$21.2m	\$20.9m	-\$0.3m
Snow Removal	\$24.8m	\$25.1m	\$0.3m

Highway Budget Δ: \$400,000 reduction for one-time vehicle expenses and contract savings

Snow Budget Δ: \$300,000 increase due to CPI for contracts

Division's Focus:

- Maintain all **800 miles of roadway** across Boston, from filling potholes, to cleaning streets, to plowing snow, to picking up public trash and recycling barrels.

Selected FY '20 Highlights

- Created a team to address street issues across Districts.
- Handled 16" - 22" snow and multiple mixed precip events
- Installed benches to make streets more attractive and more appealing, particularly for seniors in our city
- Added equipment to maintain bike lanes year round.

FY '21 Goals



Highway & Snow Initiatives in FY '21

- Continued focus on delivering exceptional, timely response to constituent requests, citywide.
- Installing over 300 new trash and recycling cans citywide -- upgrading existing ones and adding additional ones, focusing first on East Boston and American Legion Highway

PWD: Engineering, Construction & Building Maint.

Division Snapshot

	FY '20	FY '21	Δ
Construction	\$3.7m	\$3.2m	-\$0.5m
Engineering	\$1.7m	\$1.9m	\$0.2m
Building Maint.	\$2.8m	\$2.9m	\$0.1m

Construction Δ: Decline from one-time investments the previous; adding an ADA Coordinator and Sr. Engineering Aid for the Ramp program

Engineering Δ: Adding a bridge engineer to manage the state of good repair program.

Building Maint. Δ: \$100,000 increase for Frontage Road maintenance of the CFM facilities

Divisions' Focus:

- Designing & constructing streets
- Maintaining Public Works facilities

FY '21 Goals



Divisions Initiatives in FY '21

- Covered in the Capital Budget Presentation



Boston Transportation Department

FY21 Budget Hearing

B

2030



Overview

Overview

- Ensure safe, reliable, accessible and equitable access for all users of Boston's streets
- Balance access to the curb between residential and commercial interests

COVID-19

- Response
- Recovery

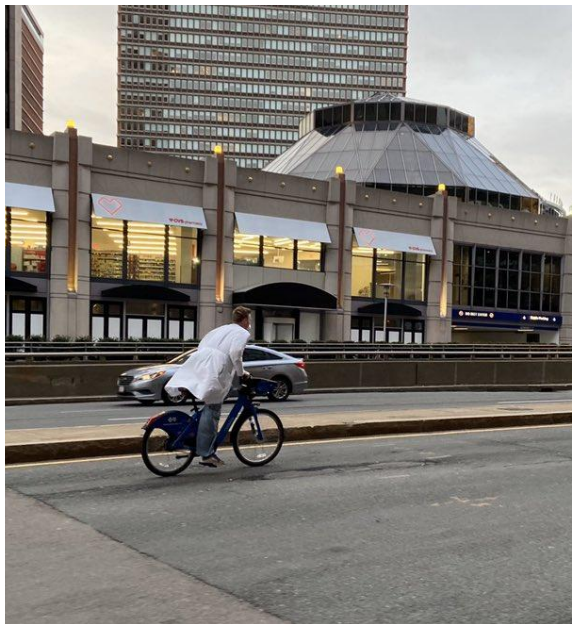


Response to COVID Crisis

Temporary Food Takeout Zone



Free Bluebikes passes for hospital staff



Help with food access



Transportation

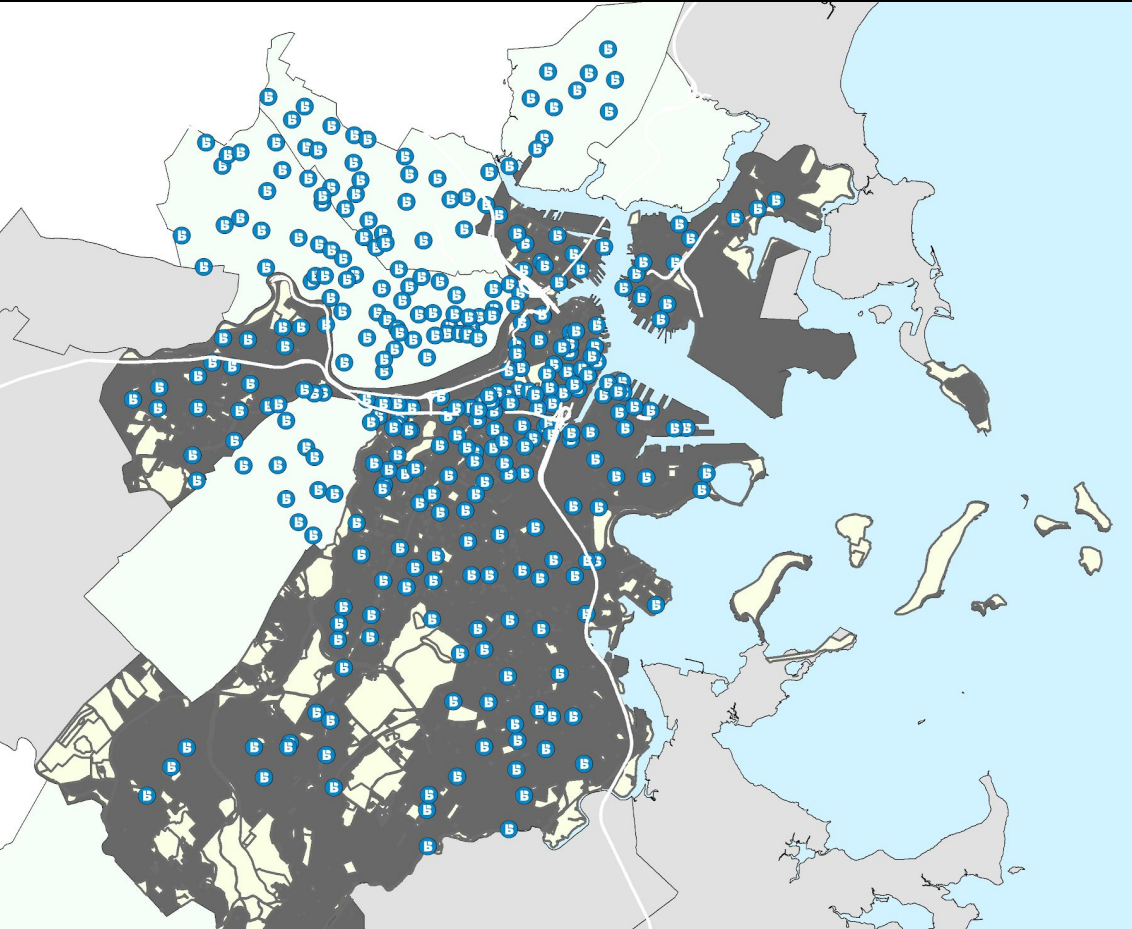


Bus Priority Initiatives

- *We're working on projects to enhance bus trips in Boston.*
- *Corridors ready for implementation:*
 - *Silver Line Downtown/Chinatown*
 - *Repainting of Essex St*
- *Corridors in design:*
 - *Blue Hill Ave*
 - *Summer St (South Boston Waterfront)*
 - *Columbus Ave (JP/Roxbury)*
 - *Washington St (Roslindale Outbound)*
 - *Warren St (Roxbury)*
 - *Route 39 Priority Pilot*
- *Corridors under Study:*
 - *North Station to South Station*
 - *Hyde Park Ave*



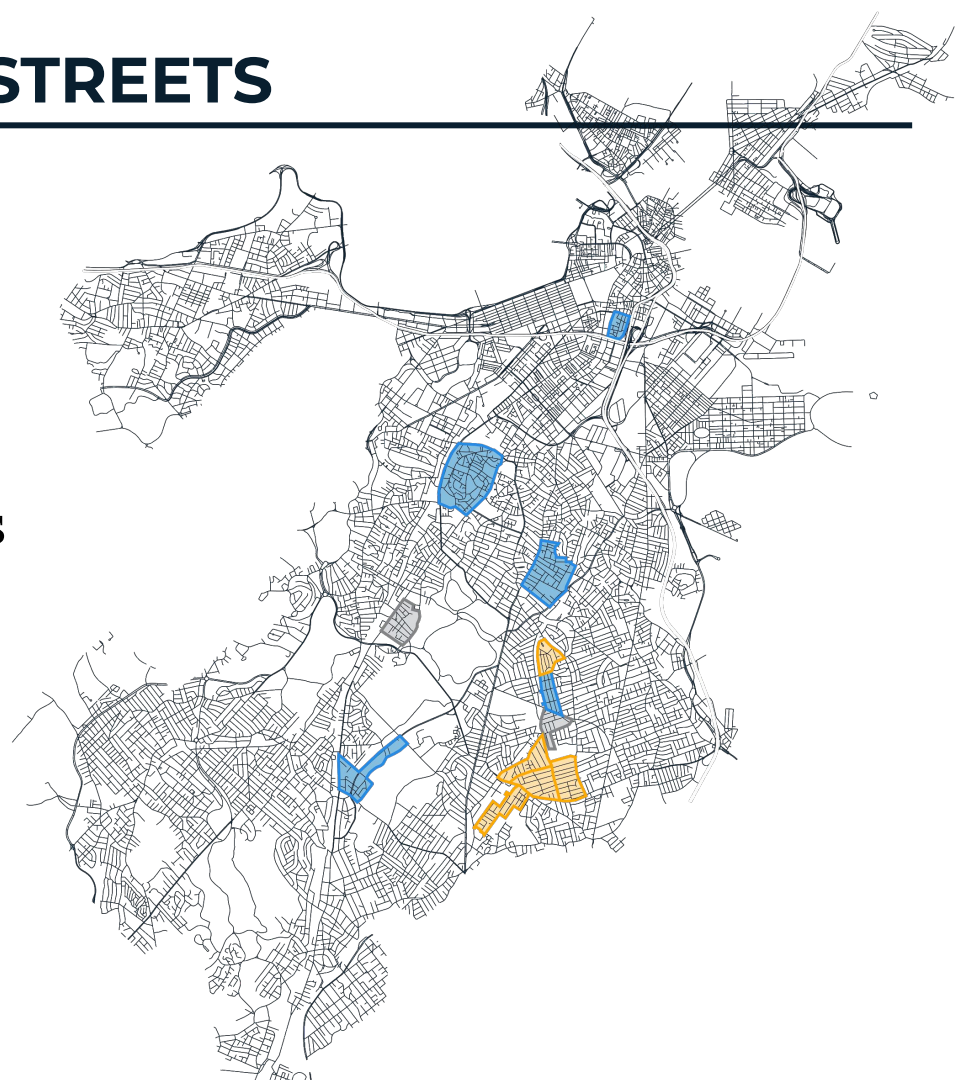
BLUEBIKES SYSTEM TODAY (FEB '20)



- 333 stations across 5 municipalities
- 24,000 members
- Averages 12,000+ daily trips

NEIGHBORHOOD SLOW STREETS

- Twelve zones, covering ~45 miles of streets
- Six zones will be construction-ready for this year
- Adding three more zones this spring, aim to open program widely in the fall (if possible)

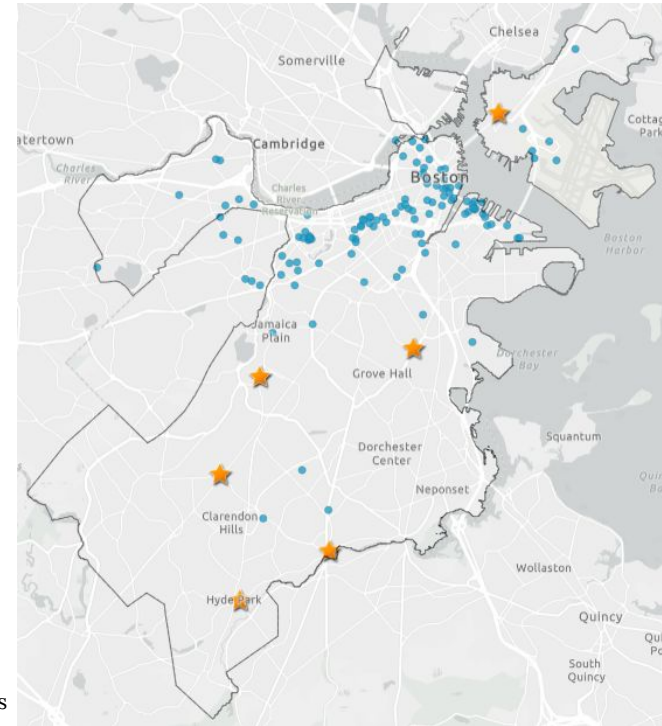


Installing Electric Vehicle chargers in our municipal lots

We are expanding access to public EV charging, installing 21 charging stations in municipal lots:

- Hyde Park
- Mattapan
- Roslindale
- Jamaica Plain
- Roxbury
- East Boston

- Publicly Accessible EV Chargers
- ★ Municipal Lot Installation Locations



Public Works & Transportation Capital Budget

May 7, 2020



Governing Goals & Values

- **Safety:** Zero deaths and serious injuries
- **Mode Shift:** Increasing walking, biking and mass transit
- **Equity:** Building a high quality transportation system for all



Public Works



Transportation



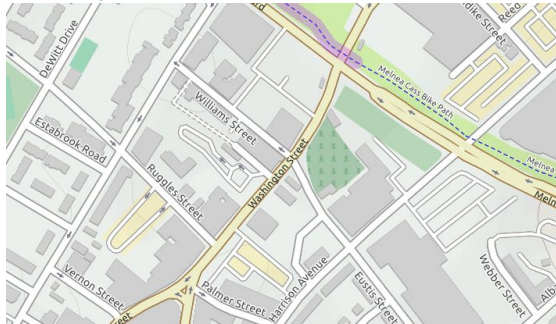
Newly-funded Capital Projects & Programs

Neighborhood Streets

Eagle Square - \$150,000



Washington Street Link, Nubian Sq

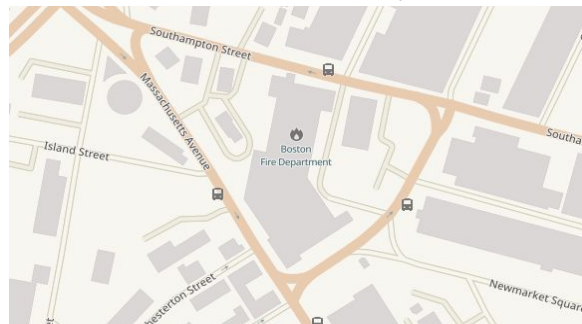


Major Corridors

Blue Hill Ave. - \$5.5 m



Mass Ave., Southamptn & T. Glynn - \$500,000



New Programs

Neighborhood Safety Investments - \$2.0 m

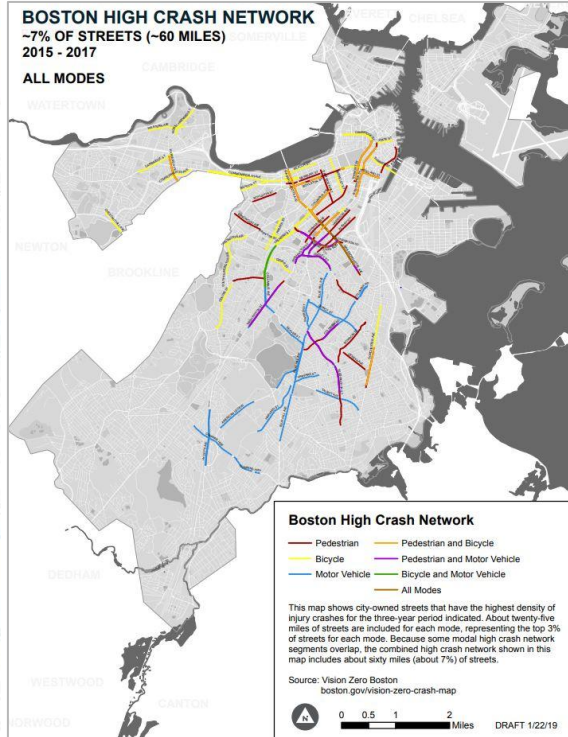


Dedicated Bus Lane Program - \$14.3m



Safety: Main Corridors

High Crash Network Strategy



Source: Map from City's [Vision Zero Project Page](#)

High Crash Network Projects

Two Major Projects In Construction or Shortly Out To Bid

- Melnea Cass
- Nubian Square

Sixteen Projects In Planning or Design (\$62 M)

- Beacon Street in Audubon Circle (*new to the budget*)
- Blue Hill Ave (*\$5.5 million in new funding*)
- Boylston St. in the Fenway (*new to the budget*)
- Columbia Road
- Connect Downtown
- Commonwealth Ave near Harvard Ave
- Cummins Highway (*funding increased to \$11m*)
- Egleston Square
- Harrison Ave
- Mass Ave, south of Melnea
- Newmarket One Ways (*new to the budget*)
- State Street
- Tremont Street in the South End (*funding increased to \$12 M*)
- Ruggles Street (*funding increased to \$5m*)
- Warren Street (*new to the budget*)

6 Major Completed Projects

Beacon Street, Centre Street between Hyde & Jackson Squares, Commonwealth Ave Near BU, Kneeland Street, Mass Ave in the Back Bay.

Safety: Neighborhood Slow Streets

45 Miles of Neighborhood Slow Streets



Substantially Complete (2)

Talbot Norfolk Triangle, Stonybrook

In Construction in FY '21 (10)

Chinatown, Dorchester Unified Neighborhood East, Dorchester Unified Neighborhood West, Grove Hall, Highland Park, Mount Hope, Redefine our Community, Washington-Harvard-Norwell, West of Washington, West Selden Street

Neighborhood Slow Streets Criteria

Neighborhood Slow Streets Criteria:

Crashes:

- Rate of fatal or injury crashes in zone

Vulnerable residents:

- % of households with children under 18,
- % of people with disabilities, and
- % of population aged 65 and above

Community places:

- Parks,
- libraries,
- schools,
- community centers,
- MBTA stops,
- walking and biking routes

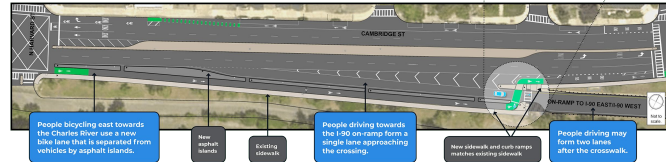
Safety: Building Out the Bike Network

There is \$6.35 M for the strategic bike network; importantly, better bike infrastructure is a part of every major project. Connect Downtown, Cummins Hwy, Mass Ave, Nubian Square, Ruggles Street, the South Bay Harbor Trail, State Street, and Tremont St. alone are over **\$40 M**.

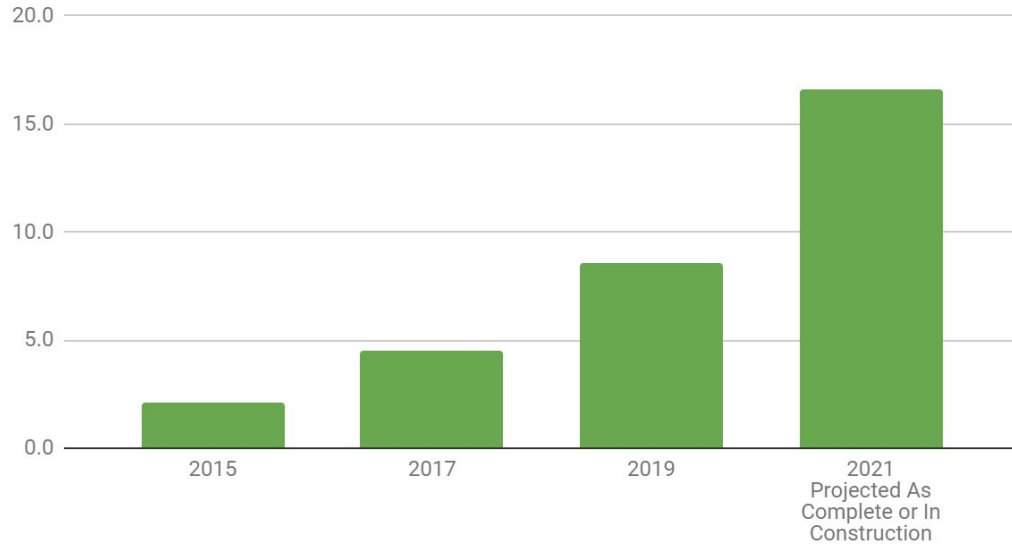
Mass Ave., South of Melnea



Cambridge Street, Allston



Miles of Separated Bike Lanes



Highlights

Western Ave., Mt. Vernon Street

Beacon St., Commercial St., Mass Ave. (BB)

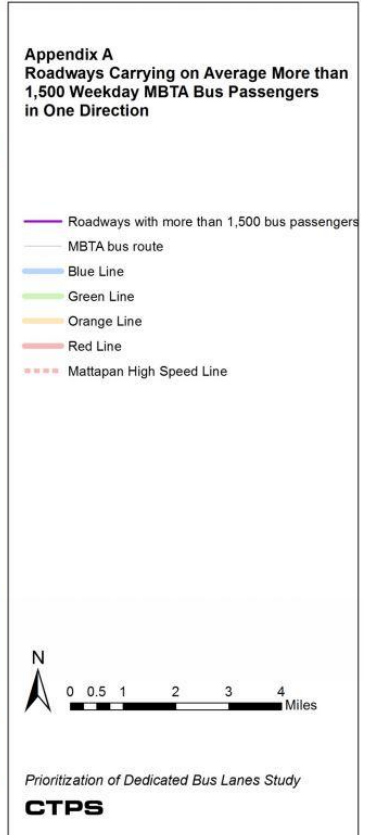
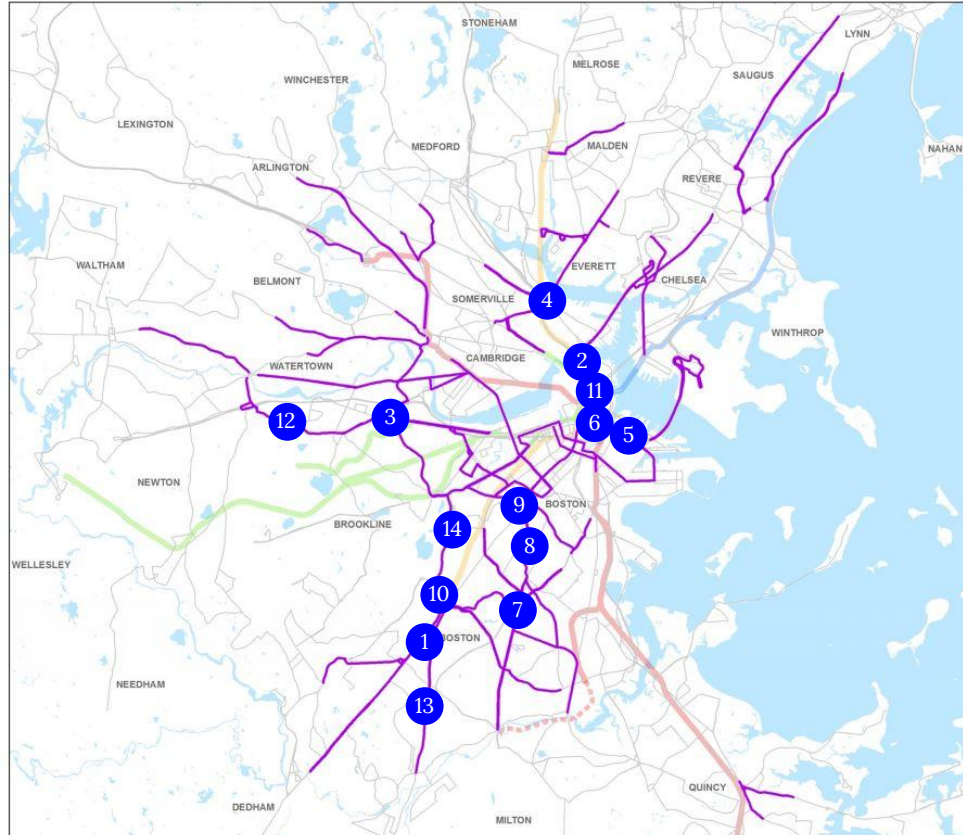
Seaport Blvd, Comm Ave., Phase 2a, Brookline Ave (LMA)

Mass Ave. (Dot), Nubian Square, South Bay Harbor Trail

Reliability: Improve the Bus Experience

- 1 **Washington St., Roslindale**
Inbound - 2018, Outbound - 2020
- 2 **North Washington St.**
North End - 2019, Bridge - 2023
- 3 **Brighton Ave., Allston**
Inbound & Outbound - 2019
- 4 **Sullivan Square**
Station Access - 2019
- 5 **Summer Street**
So. Sta. - 2019, SBWF- 2021
- 6 **Washington St., Downtown**
Inbound @ - 2020
- 7 **Blue Hill Avenue**
Inbound & Outbound - 2021
- 8 **Warren Street**
Inbound & Outbound - 2020
- 9 **Nubian Square**
Station Access - Planning
- 10 **Columbus Ave., Egleston**
Inbound & Outbound - 2020
- 11 **No. Station to So. Boston**
Inbound & Outbound - 2021
- 12 **Washington St., Brighton**
Inbound & Outbound - 2021
- 13 **Hyde Park Avenue**
Inbound & Outbound - Planning
- 14 **Route 39 Corridor**
Improvements - 2020

Focal Areas for Interventions such as Transit Signal Priority & Bus Lanes



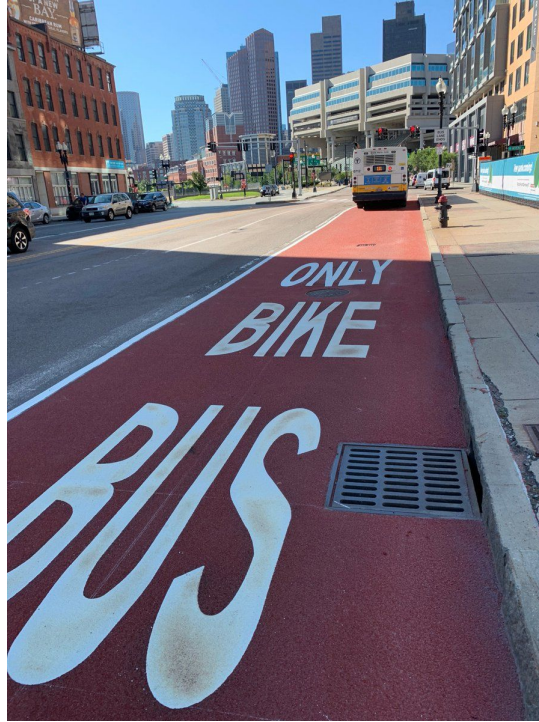
Map from CTPS's Study on [Prioritization of Dedicated Bus Lanes](#)

Improving Reliability - Buses

2018 - *Piloting with Cones*



2019 - *Painting in Red*



2020 - *Building for the Bus*



State of Good Repair: Streets

Rebuilding Ramps



- **Goal:** rebuild all ramps and add all required ramps by 2030; conducting survey to develop the specific 2030 plan.
- In FY '21, expanding staff capacity and planning to invest \$10.6 million

Reconstructing Sidewalks



- **Goal:** rebuild networks of sidewalks, with a focus on equity, engineering assessment and use.
- In FY '21, planning to invest \$4.6 million in sidewalks, including \$3.6 million in the Walkable Streets program and \$1 million in sidewalk repair

Resurfacing Roads



- **Goal:** Increase the pavement condition index and transform our streets in the process
- In FY '21, planning to invest \$14 million in \$7 million in general resurfacing, \$5 million in utility patch repairs, and \$2 million to repave guaranteed streets.

State of Good Repair: Bridges

Complete

Grimke Sisters Bridge

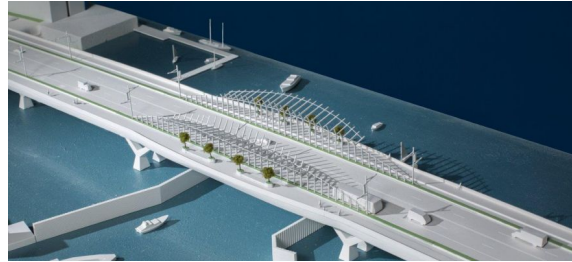


Tommy Leonard Bridge



In Construction

North Washington Street Bridge



Dalton Street Bridge



In Design

Northern Avenue Bridge



Long Island Bridge



Not shown: *Alford Street Bridge*

COVID-19 Impact

Impacts on Construction

- Delayed Start to Construction
- Required Covid-19 Safety Plans
- Potential supply chain impacts for the most complicated projects



Public Works



Transportation



FY '21 Construction: Advancing Go Boston 2030

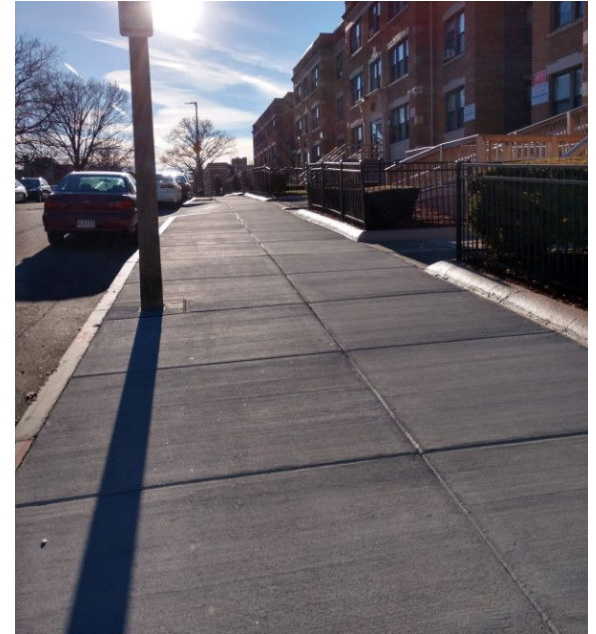
Safety



Reliability



Accessibility



Public Works



Transportation

