



## **Public Safety & Transportation Committee Report**

### **City of Newton**

### **In City Council**

**Wednesday, May 20, 2020**

#### **Remote Participation:**

Present: Councilors Auchincloss (Chair), Downs, Ciccone, Malakie, Grossman, Bowman and Markiewicz

Absent: Councilor Lipof

City Staff: Nicole Freedman, Director of Transportation Planning; Jason Sobel, Director of Transportation; Chief MacDonald, Captain Anastasia, Newton Police Department; Jonathan Yeo, Chief Operating Officer and Maura O'Keefe, Assistant City Solicitor

#### **Referred to Public Safety & Transportation and Finance Committees**

**#260-20      Authorization to expend a MassDOT grant in the amount of \$80,000**  
**HER HONOR THE MAYOR** requesting authorization to accept and expend an eighty thousand dollar (\$80,000) grant from the MassDOT's Workforce Transportation Program with twenty thousand dollars (\$20,000) in match funding to expand the Bluebikes system.

**Action:**      **Public Safety & Transportation Approved 6-0-1, Councilor Malakie abstaining**

**Note:**      Nicole Freedman, Director of Transportation Planning joined the Committee for discussion on this item.

Ms. Freedman stated that if this item is approved, the City will receive an \$80,000 grant from MassDOT's Workforce Transportation Program with \$20,000 in match funding to expand the Bluebikes system. Total cost to the City of Newton is \$20,000. The City will contract with Motivate, the firm that manages the Bluebikes system in metro Boston. Currently Bluebikes are operating within the Brookline, Cambridge, Boston, Somerville and Everett areas. It is hopeful for Bluebikes to expand to Arlington, Chelsea, Newton and Watertown.

The Bike-Share system implementation program is in the amount of \$340,000. Each City would receive six small to medium size dock stations (approximately 43 Bluebikes at each location) that would be installed on public rights of way, in parking spaces and on large sidewalks. Bluebikes is a very useful contiguous system.

The full project cost for Newton is \$350,000, capital costs \$250,000 for two years and operating costs of \$100,000 for one year.

The contract would end after two years. The Metropolitan Area Planning Council (MAPC) will review grants after two years and will look for future grant funding.

The City's Law Department is reviewing the contract. It is hopeful Bluebikes will be launched in Newton in summer or fall. Neighborhood associations, Ward Councilors, abutters, businesses and village associations will be notified on selected locations. Ideal locations include areas where there is the most pedestrian traffic in village centers.

Chair Auchincloss asked Ms. Freedman to share the contract with this Committee once it is reviewed. Ms. Freedman agreed.

Committee members questions.

Questions:

- Do the Bluebikes have electric assist mechanisms? Ms. Freedman answered no, they are pedal bikes. She then said that Boston, Cambridge, and Brookline also use pedal bikes.
- What is the size of a station dock? Ms. Freedman answered approximately two parking spaces.
- Do the Bluebikes have to be returned to the station docks? Ms. Freedman answered yes, if the Bluebikes are not returned to their designated station the rider is significantly charged.
- Are you aware of theft issues? Ms. Freedman answered that there has never been a reported theft in the US, except for Baltimore. She then stated that Newton would not be responsible of any thefts. The rider last using the bike is charged. She does not anticipate thefts happening in Newton.
- How are Bluebikes recycled? Ms. Freedman answered that Bluebikes are constantly being overhauled. The life expectancy for a bike frame is approximately five years.
- Please describe the ideal layout where stations would be placed. Ms. Freedman answered that station dock locations are unknown at this time; station density will not be the same as in Boston. Station docks will be placed approximately 1/3 mile between each station.
- What would happen to the station docks if they are not utilized? Ms. Freedman answered that station docks will be installed at preferred and safe locations. The cost to relocate a station dock is approximately \$800 to \$2,000 each.
- What if a rider tries to return to a station dock and that station is occupied?
- Will station docks be monitored?
- Is there a way for the City to place advertisements on station docks to recoup a portion of the \$20,000 cost? Ms. Freedman stated that she made her point very clear that advertising or sponsorships were not allowed at this time.
- Are there more bike slots than Bluebikes at one station? Ms. Freedman answered yes, but did not know the ratio for Newton. It may be similar to 1.8 slots per bike as it is in Boston.
- If businesses do not desire station docks in their location can they notify you? Ms. Freedman answered yes.

A Committee member stated that if Newton cannot afford to continue this service after two years, it is still advantageous to have the Bluebikes for two years. Ms. Freedman said that the Bluebike program may look differently in two years.

It was stated that allowing station docks into Newton is a great program. The Committee wants to encourage the Administration to think creatively on keeping the program at the end of the term by perhaps allowing sponsorships, advertisements or grants.

Without further discussion, Councilor Markiewicz made a motion to accept and expend this grant. Committee members agreed 6-0-1, Councilor Malakie abstaining.

### **Referred to Public Safety & Transportation and Finance Committees**

#### **#261-20      Accept six Bike Share Stations from MetroFutures Inc.**

HER HONOR THE MAYOR requesting authorization to accept six bike share stations worth approximately two hundred twenty-four thousand two hundred fifty-seven dollars (\$224,257) in conjunction with the expansion of the Bluebikes system.

**Action:      Public Safety & Transportation Approved 6-0-1, Councilor Malakie abstaining**

**Note:**      Nicole Freedman, Director of Transportation Planning joined the Committee for discussion on this item.

Ms. Freedman stated that the Metropolitan Area Planning Council (MAPC) has contracted with the City to accept six bike share stations from MetroFutures, Inc. If this item is approved, Newton would not have to do a thing, MAPC would be 100% responsible. At the end of the two-year contract, MAPC would purchase the stations in the amount of \$1.00 from the City.

A Committee member asked if the contract had any liability? Ms. Freedman answered that the City's Law Department is reviewing the contract.

Without further discussion, Councilor Downs made a motion to accept six bike share stations. Committee members agreed 6-0-1, Councilor Malakie abstaining.

#### **#248-20      Request to allow legal two-way bicycle travel on a section of Comm. Ave. Carriage Lane**

COUNCILORS DOWNS, AUCHINCLOSS, BOWMAN, KELLEY, LAREDO, MARKIEWICZ, NORTON, WRIGHT, DANBERG, GREENBERG, KRINTZMAN, LIPOF AND GROSSMAN requesting a discussion with the administration on allowing for legal two-way bicycle travel on the Commonwealth Avenue Carriage Lane, between Woodbine Street and Mt. Alvernia Road. (Wards 2, 3, 4 & 7)

**Action:      Public Safety & Transportation No Action Necessary 7-0**

**Note:** Jason Sobel, Director of Transportation; Chief MacDonald, Captain Anastasia, Newton Police Department and Jonathan Yeo, Chief Operating Officer joined the Committee for discussion on this item.

Mr. Sobel stated that this is a discussion item to allow for legal two-way bicycle travel on Commonwealth Avenue Carriage Lane between Woodbine Street and Mt. Alvernia Road. This location is the entire length of Commonwealth Avenue except in Auburndale, where the Carriage Lane ends and to the east of Mt. Alvernia Road where there is no exit point on to the Carriage Lane.

Mr. Sobel stated that the goal is to improve safety for those interested in walking, running and biking heading in the east bound direction. He then stated for short-term safety measures the Carriage Lane could be striped with pavement markings and signs could be installed at critical intersections to help improve safety. There are many types of intersections and crossing locations on the Carriage Lane including unsignalized intersections, signalized intersections, gaps in the Carriage Lane and other intersections. Signage would be a short-term safety measure. It is not a great solution to have bicyclists to step off their bikes to use the pedestrian signal, but it is the best way to implement short-term safety measures. Moving forward, long-term safety measures for the Carriage Lane must be made safer. Infrastructure, construction projects and redesigns could make the situation better and safer.

Councilor Downs stated that she supports this item and that a similar item was discussed in this Committee in November 2019. She then said that tonight, Mr. Sobel is only providing a status update report. It is her intent to docket an item for Traffic Council's consideration.

Councilor Downs then stated that it will be difficult for the City to implement legal two-way bicycle travel on the Carriage Lane, if in fact it is illegal to travel in the east bound direction. Mr. Sobel agreed.

Mr. Yeo stated that the Administration is having discussions with the City's Law Department on how the City would be able to legally allow two-way bicycle travel on the Carriage Lane. Challenges and a state law exist. He then stated that the Police Department has concerns on how the department could enforce legal two-way bicycle travel. The Administration is working on issues and concerns with the Police Department and City's Law Department. It would be necessary to docket an item for Traffic Council's consideration to make any changes official in the Traffic and Parking Regulations (TPR). Mr. Sobel stated that Massachusetts communities have made this request through their Traffic Council body to change the official TPR.

Councilors concerns, suggestions and questions.

**Concerns:**

- It is necessary to utilize both directions of the Carriage Lane for biking, running, walking, etc. as Newton connects east bound travel directions from Natick to Boston.

- All will be safer, if made safer.
- Intersections should be redesigned to improve safety.
- This docket item request is long overdue, as it would provide value and benefit providing safe bike connectivity.
- Intersections have the most issues when biking on the Carriage Lane. Each intersection is different. It is necessary to make the Carriage Lane safer for bikers and pedestrians. Pavement markings are necessary at intersections and minimal pavement markings are necessary between intersections.

Suggestions:

- Please install 2-way bike route signs in every intersection. Mr. Sobel answered not every street from the south bound direction into the Carriage Lane will have these types of signs. The focus will be on the south bound direction to Commonwealth Avenue.

Questions:

- Please describe road designs, road markings and types of signs that could be implemented making drivers aware of pedestrians and bicyclists at the location of Irving Street. Mr. Sobel stated that angle-parking is allowed on the north side east of Irving Street. There are three to four parallel parking spaces (approximately 20 feet of space) on the south side of the Carriage Lane. Between the angled parking spaces and parallel parking spaces probably would be striped with contraflow bike markings with arrows closer to the parallel parking spaces allowing better back up visibility for vehicles.
- What is the education process to notify bicyclists, pedestrians and drivers? Mr. Sobel answered that signage and pavement marking treatments would be consistent. Some intersections may have additional striping in high conflict areas. Green pavement markings are standard markings for locations in high visibility areas. Additional warning signs would be installed warning bicyclists, pedestrians and drivers to look both ways, this would remind drivers that bicyclists and pedestrians are coming from both directions.
- Will drivers stop at south bound direction to Commonwealth Avenue? Mr. Sobel answered that it is necessary for a driver to stop at a "T" intersection.
- How can bicyclists and pedestrians be encouraged to stay to the right side of the Carriage Lane. Will there be intermittent road markings installed? Mr. Sobel answered that intermittent markings was discussed for east bound bikers. Every roadway user will need to look before proceeding.

Mr. Sobel stated that pavement markings would be conducted on the south side of the Carriage Lane, not the entire length on the median side. Travel on the east bound direction would be on the median side. Parking is allowed on the north side of the Carriage Lane (residents side) therefore, parking would not be removed.

Chief MacDonald stated that he heard of this docket request this week. He has concerns but will reserve commenting until he has had the opportunity to be better educated.

Captain Anastasia stated that he has concerns. The biggest concern is safety. He is working with the Administration and City's Law Department on how this request can be made legal. It is illegal for any person to travel in the wrong direction on the Carriage Lane.

Chair Auchincloss opened the discussion to members of the public who were present.

Phil Hanser, a resident provided a PowerPoint presentation, attached to this report. The PowerPoint suggests ideas on how to make eastbound travel on the Carriage Lane safer for cycling, running and walking. The PowerPoint includes suggestions to install signs including look both ways, bike route, stop signs, stop bars, end two-way signs, striping through the intersection at select locations, install signs to look both ways at 'T' intersections where signs currently say "right turn only" and in some areas install signs indicating 'except bikes' to make drivers aware and as ways to make the Carriage Lane safer. The PowerPoint is attached to this report.

Emails and correspondence received on this item are attached to this report.

Residents present agreed that the City should allow for legal two-way bicycle travel on the Commonwealth Avenue Carriage Lane, between Woodbine Street and Mt. Alvernia Road making the Carriage Lane safer for all. A resident asked if this item is approved, when would it be implemented?

Without further discussion, Councilor Downs stated that she would docket an item for Traffic Council's consideration, she then made a motion for no action necessary. Committee members agreed 7-0.

At approximately, 8:30 p.m., Councilor Downs made a motion to adjourn. Committee members agreed 7-0.

**Respectfully submitted,**

**Jacob D. Auchincloss, Chair**



Ruthanne Fuller  
Mayor

City of Newton, Massachusetts  
Office of the Mayor

260-20 & 261-20

Telephone  
(617) 796-1100  
Fax  
(617) 796-1113  
TDD/TTY  
(617) 796-1089  
Email  
rfuller@newtonma.gov

Honorable City Council  
Newton City Hall  
1000 Commonwealth Avenue  
Newton, MA 02459

Honorable City Councilors:

I respectfully submit a docket item to your Honorable Council requesting the approval to accept and expend \$80,000 in grant funding from the MassDOT's Workforce Transportation Program to expand the Bluebikes system into Newton this summer. The City will provide \$20,000 in match funding and will contract with Motivate, the firm that manages the Bluebikes system in metro Boston. In addition, the City will be gifted the equipment (including bikes) for six bike share stations from MetroFutures Inc. valued at approximately \$224,257.

Attached is memo from Director of Transportation Planning Nicole Freedman regarding the grant. Also attached is the project summary submitted to MassDOT by the regional collaborative of Arlington, Chelsea, Newton and Watertown. Currently Bluebikes are operating within the Brookline-Cambridge-Boston-Somerville-Everett area.

Thank you for your consideration of this matter.

Sincerely,

Mayor Ruthanne Fuller

RECEIVED  
2020 MAY 11 AM 11:37  
CITY CLERK  
NEWTON, MA. 02459



Ruthanne Fuller  
Mayor

City of Newton, Massachusetts  
Department of Planning and Development  
1000 Commonwealth Avenue Newton, Massachusetts 02459

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(617) 796-1120  
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(617) 796-1142  
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(617) 796-1089  
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Barney S. Heath  
Director

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MEMORANDUM

**Date:** May 11, 2020  
**To:** Maureen Lemiux, Chief Financial Officer  
**From:** Nicole Freedman, Director of Transportation Planning  
**Cc:** Barney Heath, Director of Planning  
**Subject:** Request to Docket Item to Accept MassDOT Workforce Transportation Grant,  
and bike stations for bike share

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We request approval to accept and expend the following items to support Newton's planned bike share system.

1. \$80,000 in grant funding from MassDOT's Workforce Transportation Program
2. A gift of the equipment for six bike share stations including associated bikes from 501(c)(3) MetroFuture Inc, valued at approximately \$224,257.

The City is contracting with Motivate to provide operations for an expansion of the Bluebikes system into Newton in summer, 2020. The City will provide \$20,000 in match funding to assist with this launch.





Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, MassDOT Secretary & CEO  
Astrid Glynn, MassDOT Rail & Transit Administrator

260-20 & 261-20



February 5, 2020

Mr. Ben Cares  
City of Chelsea  
500 Broadway, Room 101-104  
Chelsea, MA 02150

Dear Mr. Cares,

On behalf of Governor Baker and Lieutenant Governor Polito, I am pleased to notify you that the City of Chelsea has been competitively selected to receive a Workforce Transportation Program funding award for the following project(s):

**Bike-Share System Implementation Program in the amount of \$340,000**

Providing more reliable and convenient travel options for workers will be an important component of our economic success. We are very pleased to support your effort in that area.

In the coming weeks, you will receive further information from the MassDOT Transit Unit detailing next steps. Please feel free to contact Thomas Schiavone (Thomas.Schiavone@dot.state.ma.us) if you have any questions in the meantime.

Thank you again for your continued commitment to improving transportation options across the Commonwealth.

Sincerely,

Astrid Glynn  
Rail & Transit Administrator

**MassDOT's 2019**  
**Workforce Transportation Program Grant**  
***A Bike-Share System Implementation Program***  
**A Regional Application Between**

Arlington, MA

Chelsea, MA

Newton, MA

Watertown, MA

Lead Contact for Application:

Benjamin Cares, Planner/Project Manager, City of Chelsea

617.466.4187, [bcares@chelseama.gov](mailto:bcares@chelseama.gov)



**Town of Arlington**

Adam W. Chapdelaine  
Town Manager

730 Massachusetts Avenue  
Arlington MA 02476-4908  
Phone (781) 316-3090

October 7, 2019

Alex Cox  
Manager of Transit Grant Programs  
Massachusetts Department of Transportation  
10 Park Plaza, Suite 4160  
Boston, MA 02116

Re: Workforce Transportation Grant – Joint Bike Share/Blue Bikes Application

Dear Mr. Cox:

I am writing in support of the joint application from Arlington, Newton, Chelsea, and Watertown for capital investment to become part of the Bluebikes bike share program. A majority of residents from the Town of Arlington commute to Boston and Cambridge and would benefit greatly from an interoperable bike share system that would allow these workers to commute directly from Arlington to these cities via bike share.

Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities into neighboring communities. Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is the best option for creating a truly regional and sustainable first/last mile transportation solution. We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that a fully integrated regional bike share system will provide even more benefits to our workers and residents.

The Town plans to put in a 20% share of the \$100,000 requested for our portion of the application, or \$20,000. We have requested capital funding through our budgetary process to pay for this match, which will need to be approved by Town Meeting in spring 2020.

Thank you for your consideration of this application. Should you have questions about this letter, please contact Daniel Amstutz, Senior Transportation Planner, at [damstutz@town.arlington.ma.us](mailto:damstutz@town.arlington.ma.us) or at 781-316-3093.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Adam W. Chapdelaine'.

Adam W. Chapdelaine  
Town Manager

Cc: Jennifer Raitt, Director, Department of Planning & Community Development



CITY OF CHELSEA, MA

City Hall, 500 Broadway • Chelsea, MA 02150

October 11, 2019

To Whom It May Concern,

I am pleased to submit our regional application for the MassDOT Workforce Transportation Program grant with partner municipalities Arlington, Newton and Watertown. Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities of Boston, Somerville, and Cambridge and into neighboring communities and gateway cities.

Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is the best option for creating a truly regional and sustainable first/last mile transportation solution.

We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that a fully integrated regional bike share system will provide even more benefits to our workers and residents.

Thank you for your consideration of our regional application.

Sincerely,

Thomas G. Ambrosino

City Manager

City of Chelsea



Ruthanne Fuller  
Mayor

City of Newton, Massachusetts  
Office of the Mayor

Telephone  
(617) 796-1100  
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TDD/TTY  
(617) 796-1089  
Email  
rfuller@newtonma.gov

October 11, 2019

Astrid Glynn  
Rail and Transit Administrator  
MassDOT Rail and Transit Division  
10 Park Plaza, Suite 4160  
Boston, MA 02116

Dear Astrid,

I am pleased to submit our collective application for a MassDOT Workforce Transportation Program grant with partner municipalities Arlington, Chelsea and Watertown for a bike share project.

Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities into our neighboring communities. Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is an excellent option for creating a truly regional and sustainable first/last mile transportation solution. We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that this fully integrated regional bike share system will provide even more benefits to employees and residents. Newton is prepared to commit \$20,000 as match (subject to City Council approval) to \$80,000 in grant money requested for five bike stations in Newton.

Thank you for your consideration of our collective application.

Sincerely,

Ruthanne Fuller

A handwritten signature in black ink that reads "Ruthanne Fuller". The signature is stylized, with the first name and last name clearly legible.

Mayor, City of Newton



## Watertown Town Council

Administration Building  
149 Main Street  
Watertown, MA 02472  
Phone: 617-972-6470

October 8, 2019

ELECTED OFFICIALS:

Mark S. Sideris,  
Council President

Caroline Bays,  
Councilor At Large

Anthony J. Donato,  
Councilor At Large

Susan G. Falkoff,  
Councilor At Large

Anthony Palomba,  
Councilor At Large

Angeline B. Kounellis,  
District A Councilor

Lisa J. Feltner,  
District B Councilor

Vincent J. Piccirilli, Jr.,  
District C Councilor

Kenneth M. Woodland  
District D Councilor

Ms. Astrid Glynn  
Rail and Transit Administrator  
MassDOT  
Ten Park Plaza, Suite 4160  
Boston, MA 02116

Re: MassDOT Workforce Transportation Program

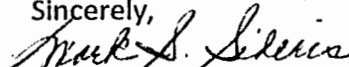
Dear Ms. Glynn:

Watertown is submitting a second application for the Workforce Transportation Program, for a joint program with Newton, Arlington and Chelsea, to launch a bike share program that would expand BlueBikes into the four communities. Watertown has been hosting LimeBikes for the past year and a half, with some success. However, a limiting factor for the LimeBikes program is that bikes cannot be taken into Boston and Cambridge, and therefore cannot be used to access the MBTA subway stations. Expanding BlueBikes into Watertown could potentially greatly increase our public transit ridership. Transit use by residents is lower than it could be because it consists only of buses. BlueBikes would provide residents with an additional means to access the Red and Green Lines. In addition, Watertown has a growing supply of office and lab space, with many new employees coming to Watertown from varying locations. BlueBikes would therefore serve both employees coming into Watertown and residents leaving Watertown during peak commuting hours. We think this could have an impact on congestion and air quality.

The Watertown Town Council strongly supports the application of the four communities, Watertown, Newton, Arlington and Chelsea, to help fund a regional bike share program. In addition to expanding transportation choices in Town, we value the opportunity to develop a regional transportation network with our neighboring communities. The Town is committed to providing a local match (\$20,000), using our TNC funds.

We thank you for your consideration of our project, and look forward to working with you on it.

Sincerely,

  
Mark S. Sideris  
Council President  
MWS



185 Berry Street  
Suite 5000  
San Francisco, CA 94107

10.8.2019

Mr. Alex Cox

Manager of Transit Grant Programs

Massachusetts Department of Transportation

10 Park Plaza, Suite 4160

Boston, MA 02116

Dear Mr Cox,

Lyft is pleased to submit this Letter of Commitment in support of the City of Chelsea's application to the Massachusetts Department of Transportation's Workforce Transportation Program.

As you know, Lyft currently operates the municipally-owned Bluebikes bikeshare system across five municipalities – Somerville, Cambridge, Boston, Everett and Brookline. We are always looking for ways to grow the system, and would be pleased to bring the Bluebikes service to Chelsea in the future if resources allow.

Specifically, we can commit to offering the following in conjunction with Chelsea's application for the

Workforce Transportation Program:

- Install at least \$100,000 of bikeshare equipment under an exclusive bikeshare program in Chelsea.

Please do not hesitate to reach out with any questions.

Sincerely,

*Miller Nuttle*

Miller Nuttle

Senior Manager, Bike and Pedestrian Policy

Lyft



SMART GROWTH AND REGIONAL COLLABORATION

October 11, 2019

Alex Cox

Manager of Transit Grant Programs

Massachusetts Department of Transportation

10 Park Plaza, Suite 4160

Boston, MA 02116

Dear Mr. Cox,

The Metropolitan Area Planning Council is pleased to submit a letter of support of the Town of Arlington and the Cities of Chelsea, Newton, and Watertown's grant application to the Massachusetts Department of Transportation Workforce Transportation Grant Program.

MAPC has worked in close partnership with these communities for the past two years to establish a regional bike share system that connects residents and employees to and from transit, and offers an alternative to vehicle travel for short trips. Advancing regional bike share is an important piece of our mission to promote smart growth and regional collaboration. Not only does bike share encourage more active transportation, but also helps alleviate the growing traffic congestion crisis impacting our region.

Arlington, Chelsea, Newton, and Watertown have all seen strong ridership and enthusiasm among residents for bike share. We are committed to continuing our work with these communities, Lyft, and the cities and towns currently served by the BlueBikes system to grow the network. Among many transportation and public health benefits, this expansion will also offer more residents the ability to bike to job centers in the region. MAPC has been a dedicated partner since the inception of this system, and we look forward to continuing to convene and facilitate these important discussions.

Thank you for your consideration, and please do not hesitate to reach out if you have any questions.

Sincerely,

Eric Bourassa

Director of Transportation

Metropolitan Area Planning Council



## INTRODUCTION

The municipalities of Arlington, Chelsea, Newton and Watertown are seeking funding to supplement the capital and start-up costs of a bike-share system provided through Lyft's BlueBikes program. Through this partnership, the municipalities propose a coordinated effort consisting of contracting, marketing, deployment, and operational management.

Each municipality has seen significant ridership in their current bike-share systems under Lime. Unfortunately, Lime's contract will terminate at the beginning of May 2020, thus leaving our municipalities without a system, unless a viable alternative is financed, procured, and deployed. Inter-municipal consultations and public feedback have magnified the need to maintain a bike share system, with preferences expressed for a network with physical docking stations. Access to bicycle transportation is key for the municipalities, as the regional workforce increasingly depends on bicycling as a commuting method, particularly employees that work evening and overnight shifts after the MBTA has closed down.

The BlueBike system, overseen by Lyft, offers an opportunity to conceive a regional, integrative bike share system, underscored by the interoperability with the existing BlueBike network in Boston and surrounding communities. In order to contract with Lyft, municipalities must contribute \$100,000 (50%) to a total start-up cost of \$200,000. Once operational, Lyft will fully subsidize maintenance costs if the municipalities grant to Lyft the exclusive right to operate bike share systems in their jurisdiction. In order to continue a bike-share system within our municipalities, we are submitting this application to fund the implementation of the BlueBikes system at or around May 1<sup>st</sup>, 2020, in order to coincide with Lime's departure.

A regional expansion of a demonstrably successful bike-share system, evidenced by the experience of Boston, Cambridge, and Somerville, is an effective way to continue a promotion of a modal shift away from single occupancy vehicles within the municipalities, while serving demographic cohorts that are in need of innovative and cost-effective modes of transportation to and from their places of work.

Additionally, we have coordinated our efforts to establish a cohesive implementation plan, project scope, and budgetary forecast in order to demonstrate the feasibility of this project upon receipt of grant funding. This is underpinned by a comprehensive citizen outreach and engagement plan. This engagement approach is centered on informing the public of the availability and ease of use of bike sharing and soliciting input on the system's architecture and siting locations. Furthermore, we have also compiled letters of support from each City's Executive Officer, all of which are poised to lead the implementation of this system if grant funding is secured, as well as Lyft, whom have committed to fund a share of capital start-up costs.

The total project cost for each municipality is \$200,000, equaling a total project cost for all municipalities of \$800,000. Each municipality, as outlined within their attached respective budgets, has committed at least 20% matching funds in order to satisfy the grant requirement, through a combination of capital funding and/or Lyft's private commitment. Based on this financial plan,

Chelsea is requesting \$100,000 in MassDOT grant funds, while Arlington, Newton, and Watertown are each requesting \$80,000 in grant funds. Therefore, we respectfully request a total of \$340,000.

#### ANALYSIS OF LIME-BIKE DATA

Demonstrable ridership shows a demand for bike-share systems within our communities. For example, the Metropolitan Area Planning Council (MAPC) noted approximately 30,000 trips per month were observed across sixteen cities and towns from June through October. Ridership dropped significantly during winter months from January through March, but still maintained approximately 1,500 trips per month. In Table 1, we show each municipality's Lime bike ridership from April 1, 2018 through June 30<sup>th</sup>, 2019.

*Table 1: Bike Share Applicant Municipalities (April 1<sup>st</sup>, 2018 to June 30<sup>th</sup>, 2019)*

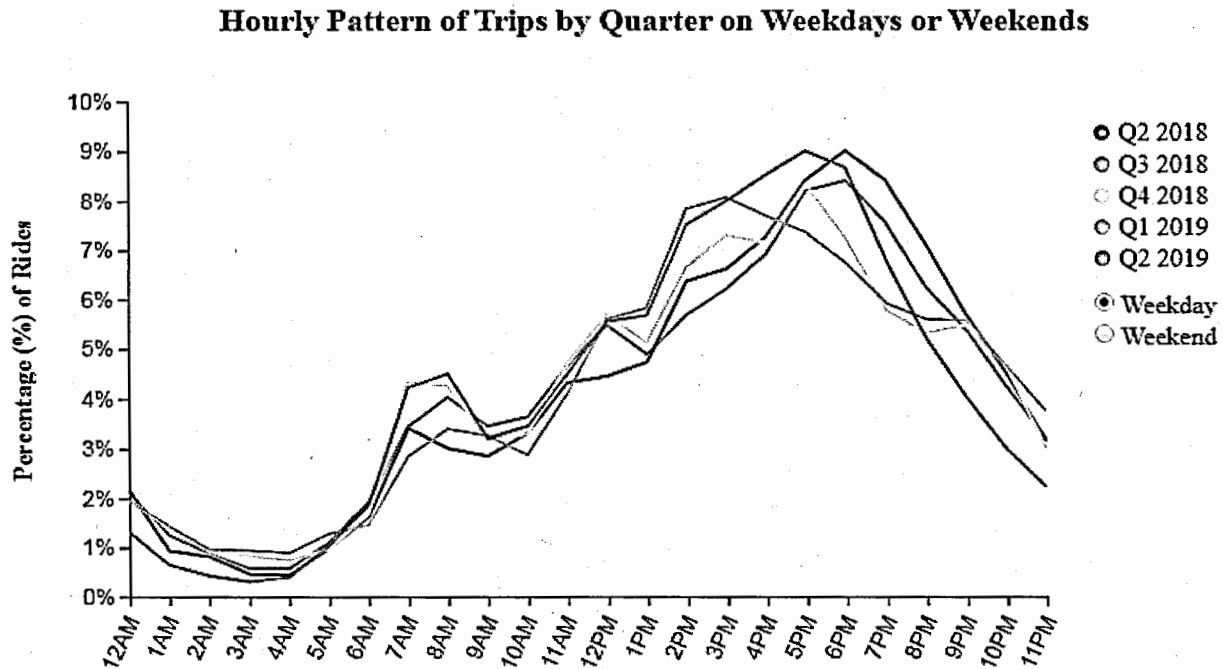
Municipality	Total Number of Trips	Total Weekday Trips	Total Weekend Trips
Arlington	17,327	12,592	4,734
Chelsea	13,455	10,138	3,317
Newton	19,420	14,314	5,106
Watertown	14,335	10,161	4,174
<b>Total</b>	<b>64,537</b>	<b>47,205</b>	<b>17,332</b>

\*MAPC's Dockless Bike Travel in Metro Boston Report

This data supports that there is a significant level of demand for bike-share within our municipalities. Additionally, as illustrated in the graph below, high levels of usage occurred during peak commuting hours, specifically during afternoon trips (Figure 1). According to MAPC Lime Data, which documented over 250,000 trips from April 1, 2018 to June 30<sup>th</sup>, 2019 the majority of rides occurred daily within evening peak hours.

Additionally, survey data (Attachment #1) collected by the MAPC illuminates our resident's usage of the existing bike-share systems for commuting purposes. A diverse cross-section of 233 riders were surveyed in order to assess their purposes for using Lime's bike-share system, yielding 78 riders stating they used Lime bike's system for commuting purposes. Therefore, with the continuation of a bike-share system, we estimate that our ridership post-implementation of the Bluebikes system will be comprised of at least 33% workforce or student commuters. Moreover, with targeted implementation of Bluebike stations within central business districts and careful coordination with businesses and other employers, our implementation plan will increase projected workforce ridership and promote further modal shift while providing an innovative, sustainable transportation mode to our communities.

**Figure 1: MAPC Lime Data (2019)**



It is important to note that these ridership numbers are reflective of Lime's dockless system; however, we do not expect ridership to decrease in moving to a station-based system like Bluebikes. Rather, we believe that a regionally connected system within Boston's metropolitan region, with stations located at key public transit stops and station and businesses districts will demonstrably increase ridership, and specifically ridership within workforce populations.

Additionally, based on dialogue with Lyft and other BlueBikes partners, there is also a strong potential for the Bluebikes system to evolve towards hybrid docked and dockless bike types, pending action from the state legislature on the topic. In order for these hybrid bike systems to become more viable, however, a strong docked bike system must be established in order to develop financial stability and a robust initial rider network.

#### **BENEFIT OF BLUEBIKES TO WORKFORCE TRANSPORTATION AND REGION**

Through an analysis of existing bike-share data, we have demonstrated demand for the current bike-share system within each of our municipalities. We have also related how existing data demonstrates a potential need for bike-share systems within our workforce, through observations of peak usage during commuting hours, and through the MAPC survey results. Beyond this, the introduction of a Bluebikes system will increase ridership among our workforce populations if implemented in a way that benefits central business districts and key public transit locations.

Our implementation plan involves significant coordination with Lyft representatives and businesses in order to target locations that will benefit the largest population of potential riders while ensuring Lyft reaches their ridership and budgetary benchmarks. Lyft has communicated to each of our municipality's their desire to implement stations within central business districts and along key transit routes, as this benefits dense populations with characteristics that align with high usage and the potential to use bike-shares for commuting and daily purposes. We believe this will promote further usage of bike-share systems to commute to and from work directly and within first-mile and last mile-gaps between transit.

NATCO released a report on bike-share systems throughout the United States. Their review of bike-share data within Seattle, WA resulted in the following findings on docked systems versus dockless systems, which reinforces our assumptions on how a station-based bike-share system will benefit our municipality's workers:

*"Data from Seattle suggests that dockless bike share may be used differently from station-based bike share systems in other places around the U.S. and world. For example, typically station-based systems generate the most trips on weekdays and use within the average day follows 9-5 commuting patterns. In 2017, 48% of all station-based bike share trips took place during rush hours (7-9AM or 4-6PM), and 76% of all trips took place on weekdays.<sup>1</sup>*

*In contrast, dockless bike share in Seattle has an evening peak but no morning rush hour peak and trips are spread out over the day with highest use seen on weekends, suggesting more recreational use.*

*The presence of weekday and AM/PM rush hour peaks is important because it suggests that station-based systems are part of a city's overall transportation network and are used in the course of a typical commute to work or school. For instance, annual member surveys from Washington, DC and Chicago also show significant bike share to transit crossover: 65% of Capital Bike Share members and 42% of Divvy members respectively report using bike share as part of longer transit commutes."<sup>2</sup>*

The findings of Seattle's study as published in NATCO also make a substantial case for the ability of bike-share systems to supplement public transportation routes, especially when effectively placed at key transit locations. Moreover, a transition from Lime's dockless system to the station-based system under Lyft will likely generate increased ridership among workers and residents alike, which will be furthered by the tactical siting of the BlueBikes docking systems in key employment centers, industry clusters, and central business districts.

Finally, Lyft provides financial accessibility of Bluebikes to low-income demographics through a robust low-income program. Low-income individuals tend to have diminishing affordability for expensive single-occupancy vehicles and rely heavily on public transportation. Through provision of an innovative solution to filling public transportation gaps within last-mile

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<sup>1</sup> NATCO's Bike Share and Shared Micromobility Initiative, Bike Share in the U.S.: 2017

and first-mile trips, Bluebikes can provide a bike-share system that benefits a particular subset of a lower-income workforce population.

## ENVIRONMENTAL IMPACT

Modal shifts from single-occupancy vehicles towards public transportation and bicycling may reduce congestion within Boston's metropolitan urban core and inner ring when coupled with other congestion reduction policy measures. Our municipalities are working towards infrastructure that promotes and accommodates walking, bicycling, and the use of public transit.

Notably, each of municipalities has participated to some degree within the Complete Streets initiative through MassDOT. Infrastructure improvements under this program include increased safety among cyclists through the implementation of bicycle lanes and signage programs which help to encourage cycling within our communities. Through our participation in this effort we have demonstrated our ability to provide adequate infrastructure in order to accommodate a regional bike-share system, and to further increase modal shifts within our municipalities.

Each of our municipalities has some level of characteristics that qualify them as Environmental Justice (EJ) communities (Attachment #3). We have vulnerable communities who are more susceptible than others to the impacts of pollutants and health hazards perpetuated by the use of cars and other motor-vehicles. Primarily, asthma rates have been reported state-wide by Mass.gov at the rate of 10.2% among adults and 12.9% among children. These rates are significantly higher among residents in close proximity to congested, densely populated, and highly traveled streets, who often fall within at least one of the three characteristics of EJ populations. Any modal shift from a motor-vehicle to the use of bikes will contribute to the reduction of pollutants that disproportionately affect these EJ communities.

The act of cycling produces virtually zero greenhouse gas emissions, making it enormously beneficial to the reduction of emissions state-wide. Any modal shift from a motor-vehicle to the use of bikes will contribute to the reduction of pollutants that disproportionately affect these EJ communities. We are confident that these metrics will result in a positive Air Quality Benefit Analysis (Attachment #2), resulting in significant reduction in CO<sub>2</sub> levels and other greenhouse gas emissions.

## IMPLEMENTATION PLAN

Our implementation plan outlines our strategy once we have secured adequate funding to engage in a contract with Lyft, which would occur from May 2020 until May 2022, with the ability to continue this contract if each municipality chooses to do so.

### 1. Contract with Lyft

- a. Contract with Lyft would begin May 1<sup>st</sup>, 2020 and run for two years, with the option to renew the contract for another two years, and subsequently, an additional two years. That means each municipality has the opportunity to continuously contract with Lyft, to at least May of 2026 or potentially further
- b. The contract, per municipality, enables the installation of five bike-share stations through a commitment of \$100,000 by the municipality. Subsequently, Lyft covers all other yearly expenses related to Operations and Maintenance of the system

## **2. Site Suitability Assessment**

- a. Municipal Staff create standardized methodology for selecting locations for each station, in consultation with stakeholders. This methodology will be consistently applied throughout all municipalities involved in this grant application. Municipal Staff will hold two (2) public meetings as part of this process to gather feedback on the assessment. Through their respective Complete Streets planning initiatives, the municipalities have conducted a gap analysis, which yielded findings that can be integrated into this assessment
- b. Public Right-of-Ways, transit hubs, dense residential areas, and business districts are primary targets in order to ensure active ridership and benefit to workforce population. Key indicators for consideration will include, but not be limited to, employment density, residential density, industry clusters, public transit stop and station locations, demography, and socioeconomic characteristics

## **3. Stakeholder Engagement**

- a. Coordinate with community based non-profits and other entities that can promote the installation of stations and ensure residents will be aware of the locations and function of these stations.
- b. Engage with businesses in municipality in order to assess who within their workforce can benefit from bike sharing systems
- c. Promote effort during regularly scheduled municipal meetings, such as stakeholder committees, board and commission meetings, and executive leadership meetings
- d. Coordinate with local Chambers of Commerce and other trade, industry, and labor groups to collect feedback and disseminate information about the effort.

## **4. Public Engagement**

- a. Hold public meetings to discuss installation of stations and ride share system; assess community feedback and tailor outreach efforts to increase awareness on bike safety and usage of ride sharing systems
- b. Installation involves delivery, off-loading, and placement of equipment. Installation does not require other attendant infrastructure, such as electrical connections, as the stations are self-sustaining

## **5. Installation of Stations**

- a. Municipal Staff along with Lyft Representatives monitor the physical installation of stations
- b. Installation involves delivery, off-loading, and placement of equipment. Installation does not require other attendant infrastructure, such as electrical connections, as the stations are self-sustaining
- c. Overall 20 stations would be installed between our four municipalities with 15 bikes per station; therefore, 300 bikes would be introduced to the regional bike-share system

## **6. Monitoring of Ridership and Modal Shift**

- a. Ongoing data collection from Lyft in order to assess ridership, rider habits, and benefit to workforce and other demographics within municipal populations
  - i. Three mechanics may be deployed in order to monitor activity and benefit of bike-share systems to workforce populations

1. First-mile and last-mile utility during peak commuting hours can be assessed through Lyft's amalgamation of data
2. Diverse cross-sectional surveying of Bluebike users by regional planning commissions like MAPC, or individually within municipalities, or through Lyft itself
3. Evaluation of ridership during off-hours of public transportation within Lyft amalgamated data sets

## KEY PERSONNEL

The following staff members for each municipality will oversee the implementation, operation, maintenance, and outreach of the Bluebikes system. In this way, we ensure sustainability and longevity of the system during and after its implementation.

<b>Arlington</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Daniel Amstutz	Planning & Community Development	Senior Transportation Planner	Primary project manager for bike share for City
Erin Zwirko	Planning & Community Development	Assistant Director	Oversees specific project goals and benchmarks, coordinates with Senior Transportation Planner
Jennifer Raitt	Planning & Community Development	Director	Oversees general project goals and benchmarks

<b>Chelsea</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Benjamin Cares	Planning & Development	Project Manager, Planner	Primary Project Manager, Primary project manager for bike share for City
Alexander Train	Planning & Development	Assistant Director	Oversees specific project goals and benchmarks, coordinates with Project Manager
John DePriest	Planning & Development	Director	Oversees general project goals and benchmarks

<b>Newton</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Nicole Freedman	Planning Department	Director of Transportation Planning	Primary project manager for bike share for City

Barney Heath	Planning Department	Director of Planning and Development	Oversees all Planning Department activity
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<b>Watertown</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Laura Wiener	Planning and Community Development Department	Senior Transportation Planner	Primary project manager for bike share for City
Steve Magoon	Community Development and Planning	Direct of Planning and Community Development and Assistant Town Manager	Oversees all activities within DCDP

## BUDGET

The full start-up and implementation cost of the Bluebikes system through Lyft is \$200,000 per municipality, totaling \$800,000. This cost covers the installation of five stations within the municipality, and subsequently Lyft will cover the operations and maintenance cost for the stations and bikes for the duration of the contract period. This financing scheme is sustainable because each municipality pays a portion of the start-up cost and then is not required to inject any further capital in order to run and maintain the Bluebikes system.

Matching requirements for this grant are broken down in the budget appended to this application. Each municipality more than satisfies the matching requirement of the grant, averaging a match of 57.5% of total project funds across our four municipalities.

## PARTNERSHIPS

The ongoing implementation of bike-share system within Boston and its surrounding municipalities is an existing partnership in and of itself unified under the MAPC's oversight and management. Through this regional grant application, we reinforce this unified effort and demonstrate how a regional bike-share system provides an effective means of transportation within our municipalities and its connectivity to the metropolitan region. We believe that this partnership with the MAPC qualifies as a public and regional partnership under this program. Following a grant award, the municipalities intend to continue meeting monthly through this regional bike share working group.

Additionally, we will establish a public-private partnership with Lyft. This partnership, as outlined above within the implementation process and budget, allows for sustainable implementation and maintenance of bike-share stations. Each municipality contributes staff time, expertise, and on-the-ground knowledge for effective placement and planning of bike-share systems, while Lyft provides the financial capital and administrative oversight to continue



providing Bluebikes to match demand, and can adequately run the necessary operations and maintenance of the system.

## **CONCLUSIONS**

Each of our municipalities has demonstrated demand for bike-share systems over the past year of contracting with Lime. Through MAPC survey data, we have seen that a diverse cross-section of 233 individuals utilize Lime bikes for commuting to work or school. Additionally, further analysis of data has yielded high percentages of ridership during peak commuting hours. Considering these two forms of data, it appears that there is significant demand for bike-share systems as a form of commuting. Our municipalities believe that we can increase this modal shift by connecting to existing Bluebike systems under Lyft within Boston, Somerville, Cambridge and subsequently, the entire region of the Boston Metropolitan Area.

In order to achieve our goals in providing a regional bike-share system to each of our municipalities, we hope to supplement the installation and start-up of a Bluebikes system through funding by the Workforce Transportation Grant. We are confident that through careful planning and coordination with businesses, Lyft, our residents, and the region as a whole, we will achieve our projected ridership benchmarks and see ridership increase substantially within workforce users.

## ATTACHMENT #1 (MAPC Survey Results)

## MAPC Lime Riders' Characteristics, Travel Patterns, and Preferences

In June 2019, we distributed a survey to MAPC-area riders and collected 233 responses.

We found:

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MAPC-area Lime riders are a diverse cross-section of the city's residents and visitors:

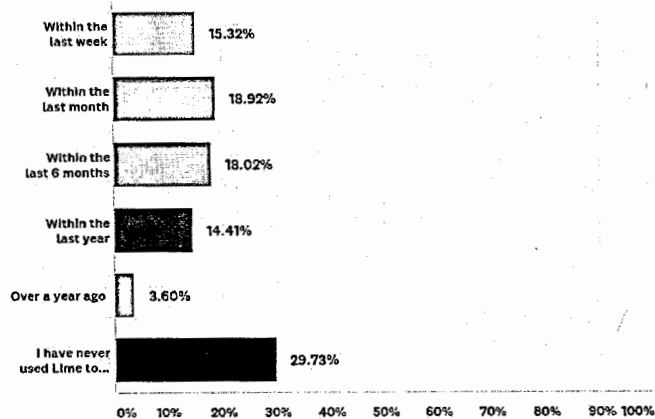
- **39% of riders** live in households earning **less than \$75,000 a year**.
  - Most Lime riders are employed: **77% work full time** and 8% work part time. About 15% of riders are students.
  - 81% of riders have an Associate, Bachelor's, or advanced (e.g., PhD, MD) degree.
  - The **average age** of a Lime rider is **37**, and 25% of Lime riders are 46 or older.
  - 75% of riders in the survey were White, 13% were Asian, and 12% were Hispanic.
  - **38% of riders** in the survey identified as **female** and 60% identified as male. This proportion of female riders is as high or higher than many docked bikeshare systems as well as personal bicycle use.
  - Only **5.6% of riders** stated that they lived outside of the MAPC region.
  - **53% of riders** last took a ride on a *personal bike* over a month ago, suggesting that Lime may be activating new riders.
  - **40% of riders** used BlueBike in the last month, showing how Lime and BlueBike are providing a robust network of first and last-mile solutions for MAPC-area travelers.
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Lime enables MAPC-area riders to reduce their reliance on cars:

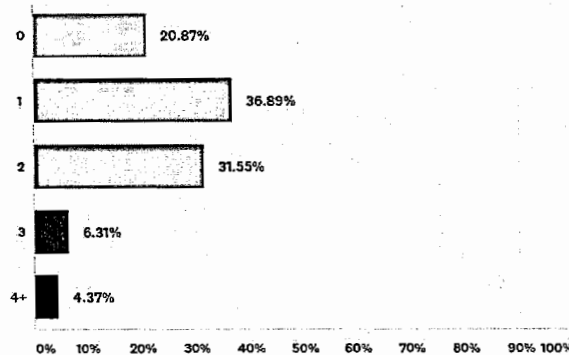
- On their most recent Lime rides, **32.8% of riders** used Lime rather than a car (personally owned, taxi, or ridehailing).
- **34.2% of riders** used Lime to get to or from public transit within the last month.
- Due to our riders' shift away from car trips, we estimate that Lime saved roughly **61 metric tons of CO2** that would have otherwise been emitted (as of July 2019).

- **57.8% of riders** live in households that own 1 or fewer cars.

Q7 When was the last time you used Lime to get to or from public transit?



Q9 How many cars do you or your household currently own?



Lime helps MAPC-area riders fulfill their everyday transportation needs. On their most recent Lime rides:

- **33% of riders** used Lime to commute to or from work or school.
- **17.2% of riders** used Lime to travel to or from dining or entertainment.

## ATTACHMENT #2

## Attachment B: Air Quality Benefits Analysis

This grant program is funded through the Congestion Mitigation and Air Quality Improvement (CMAQ)

Program, which is administered by the Federal Highway Administration (FHWA). The purpose of the CMAQ Program is to support transportation projects, transit service, and other related efforts that contribute to air quality improvements and mitigate the impacts of congestion. As such, to meet federal requirements related to CMAQ, project applicants are required to demonstrate that their proposed projects will reduce emissions and provide an air quality benefit. The questions in this section address this requirement.

The answers provided to these questions will be reviewed by the CMAQ Consultation Committee, which consists of members from the Massachusetts Department of Transportation (MassDOT), the

Massachusetts Department of Environmental Protection (MassDEP), the U.S. Environmental Protection Agency (EPA), and regional planning agencies within Massachusetts.

## Questionnaire

- 1.) Please select the category that most closely aligns with the proposed project:

Transit/Shuttle Service (Section A)

Bike share (Section B)

Qualitative Analysis / Other (Section C)

## A. Transit/Shuttle Service Questions

- 1.) Does your organization currently operate a transit or shuttle service? If not, skip to question 2. If yes, please complete the following tables:

Table 1: Summary of Currently-Operated Transit/Shuttle Vehicles					
Vehicle ID	Vehicle Type	Occupancy	Year of Manufacture	Vehicle Length	Fuel Required
1					
2					
3					
4					

Vehicle ID	Round Trips / Day	Length of Route (mi)	Average Speed (mph)	Daily Ridership	Days Operated / Year	Operation Hours

1						
2						
3						
4						

- 2.) Please provide the following details about the proposed transit or shuttle service and vehicles. If unsure, provide an estimate or leave blank:

Table 2: Summary of Proposed Transit/Shuttle Vehicles					
Vehicle ID	Vehicle Type	Occupancy (Number of Passengers)	Year of Manufacture	Vehicle Length	Fuel Required

Vehicle ID	Round Trips / Day	Length of Route (mi)	Average Speed (mph)	Daily Ridership	Days Operated / Year	Operation Hours

#### B. Bike Share Questions

- 1.) How many bikes will be included in this project?

***300 bikes total will be included; five stations with fifteen bikes each will be implemented among four municipalities as a part of this program.***

- 2.) What is the expected average bike trip length?

***The expected average bike trip length is 0.6 miles, based on the average trip taken by Lime bike riders and according to MAPC data.***

- 3.) What is the expected average number of trips per bike per day?

*We expect an average number of 1.7 trips per bike per day, this value was calculated through an analysis performed by NATCO under their Bike Share and Micromobility Initiative on station-based systems.*

- 4.) How many days of the year will your proposed bike share operate?

*Approximately 365, although this will be heavily affected by inclement weather and the decision making process of each municipalities Planning & Development and Public Works Departments.*

#### C. Qualitative Analysis

If none of the areas above apply to your project, please provide a qualitative assessment of why your project is expected to reduce emissions, citing applicable research where possible.

Please note that although quantitative analysis of air quality impacts is expected for almost all project types under the CMAQ program, an exception will be made when it is not possible to accurately quantify emissions benefits. In these cases, qualitative assessments based on reasoned and logical determinations that the projects or programs will decrease emissions will be conducted.

## ATTACHMENT #3 (List of Environmental Justice Communities)

Municipality	EJ criteria (Minority, Income, English Isolation)*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Acton	M	1.00	3	15	20.0%	7181	21924	32.8%
Adams	I	1.00	6	10	60.0%	5237	8485	61.7%
Agawam	I	1.00	1	17	5.9%	1213	28438	4.3%
Amherst	MIE	1.36	11	22	50.0%	14166	37819	37.5%
Andover	M	1.00	2	20	10.0%	2957	33201	8.9%
Aquinnah	M	1.00	1	1	100.0%	311	311	100.0%
Arlington	MI	1.17	6	44	13.6%	7333	42844	17.1%
Ashland	M	1.00	1	9	11.1%	901	16593	5.4%
Athol	I	1.00	2	8	25.0%	3108	11584	26.8%
Attleboro	MI	1.50	4	30	13.3%	5470	43593	12.5%
Ayer	MI	1.00	4	7	57.1%	3962	7427	53.3%
Barnstable	MI	1.38	8	38	21.1%	8838	45193	19.6%
Barre	I	1.00	1	4	25.0%	883	5398	16.4%
Becket	I	1.00	1	2	50.0%	1071	1779	60.2%
Belmont	M	1.00	5	27	18.5%	5360	24729	21.7%
Beverly	MI	1.50	2	30	6.7%	1727	39502	4.4%
Billerica	M	1.00	1	30	3.3%	2746	40243	6.8%
Boston	MIE	1.60	396	559	70.8%	456403	617603	73.9%
Braintree	MI	1.00	4	26	15.4%	4722	35744	13.2%
Brockton	MIE	1.34	84	87	96.6%	90,817	93810	96.8%
Brookfield	I	1.00	1	3	33.3%	891	3390	26.3%
Brookline	MIE	1.16	19	38	50.0%	29249	58732	49.8%
Burlington	M	1.00	2	15	13.3%	5088	24498	20.8%
Cambridge	MIE	1.18	55	88	62.5%	70972	105162	67.5%
Canton	M	1.00	1	11	9.1%	3085	21561	14.3%
Chelmsford	M	1.00	1	22	4.5%	1003	33802	3.0%
Chelsea	MIE	2.00	27	27	100.0%	35177	35177	100.0%
Chicopee	MIE	1.35	20	43	46.5%	28146	55298	50.9%
Clinton	MI	1.50	4	10	40.0%	5204	13606	38.2%
Dalton	I	1.00	2	7	28.6%	1538	6756	22.8%
Danvers	I	1.00	1	16	6.3%	912	26493	3.4%

**260-20 & 261-20**

Dartmouth	I	1.00	1	19	5.3%	1300	34032	3.8%
Dedham	M	1.00	2	21	9.5%	2814	24729	11.4%
Dennis	I	1.00	3	18	16.7%	1853	14207	13.0%
Dracut	I	1.00	1	18	5.6%	1173	29457	4.0%
Eastham	I	1.00	1	6	16.7%	920	4956	18.6%
Easthampton	I	1.00	2	12	16.7%	2499	16053	15.6%
Easton	I	1.00	1	11	9.1%	1696	23112	7.3%
Everett	MIE	1.52	27	27	100.0%	41667	41667	100.0%
Fairhaven	I	1.00	2	15	13.3%	1898	15873	12.0%
Fall River	MIE	1.29	56	81	69.1%	59242	88857	66.7%
Falmouth	I	1.00	2	26	7.7%	1955	31531	6.2%
Fitchburg	MIE	1.57	23	32	71.9%	24680	40318	61.2%
Framingham	MIE	1.65	20	45	44.4%	32550	68318	47.6%
Franklin	I	1.00	1	17	5.9%	1467	31635	4.6%
Gardner	MI	1.00	5	13	38.5%	7999	20228	39.5%

Municipality	EJ criteria*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Gloucester	I	1.00	4	23	17.4%	4824	28789	16.8%
Grafton	M	1.00	1	10	10.0%	2115	17765	11.9%
Great Barrington	I	1.00	3	7	42.9%	2395	7104	33.7%
Greenfield	I	1.00	3	17	17.6%	3438	17456	19.7%
Harwich	I	1.00	1	12	8.3%	523	12243	4.3%
Haverhill	MI	1.38	13	40	32.5%	21313	60879	35.0%
Holbrook	M	1.00	1	9	11.1%	1635	10791	15.2%
Holyoke	MIE	2.15	27	37	73.0%	29053	39880	72.9%
Lancaster	I	1.00	1	4	25.0%	1900	8055	23.6%
Lawrence	MIE	2.27	55	55	100.0%	76377	76377	100.0%
Lee	I	1.00	1	6	16.7%	994	5943	16.7%
Leicester	I	1.00	1	8	12.5%	1050	10970	9.6%
Lenox	I	1.00	1	7	14.3%	480	5025	9.6%
Leominster	MI	1.33	12	26	46.2%	20721	40759	50.8%
Lexington	M	1.00	11	22	50.0%	16604	31394	52.9%
Lincoln	M	1.00	1	5	20.0%	1286	6362	20.2%
Lowell	MIE	1.46	70	80	87.5%	93309	106519	87.6%



**260-20 & 261-20**

Ludlow	M	1.00	1	11	9.1%	2413	21103	11.4%
Lynn	MIE	1.75	56	72	77.8%	72884	90329	80.7%
Malden	MIE	1.38	50	52	96.2%	57638	59450	97.0%
Mansfield	M	1.00	1	14	7.1%	1703	23184	7.3%
Marlborough	MI	1.25	8	21	38.1%	14178	38499	36.8%
Mattapoisett	I	1.00	1	6	16.7%	569	6045	9.4%
Medford	MIE	1.15	20	53	37.7%	21905	56173	39.0%
Melrose	I	1.00	2	27	7.4%	2017	26983	7.5%
Methuen	MIE	1.40	15	35	42.9%	17463	47255	37.0%
Middleborough	I	1.00	2	14	14.3%	2189	23116	9.5%
Middleton	M	1.00	1	4	25.0%	3322	8987	37.0%
Milford	MIE	1.67	6	19	31.6%	6249	27999	22.3%
Millbury	I	1.00	1	10	10.0%	949	13261	7.2%
Milton	M	1.00	8	25	32.0%	7390	27003	27.4%
Monson	I	1.00	2	7	28.6%	556	8560	6.5%
Montague	I	1.00	4	8	50.0%	3,852	8437	45.7%
Nantucket	M	1.00	3	11	27.3%	3764	10172	37.0%
Natick	M	1.00	2	26	7.7%	2696	33006	8.2%
New Bedford	MIE	1.81	62	87	71.3%	66180	95072	69.6%
Newton	MI	1.00	10	64	15.6%	12723	85146	14.9%
North Adams	I	1.00	6	12	50.0%	7791	13708	56.8%
North Andover	MI	1.00	3	19	15.8%	4135	28352	14.6%
North Attleborough	I	1.00	1	18	5.6%	855	28712	3.0%
North Brookfield	I	1.00	1	5	20.0%	929	4680	19.9%
Northampton	MI	1.33	6	19	31.6%	7412	28549	26.0%
Norwood	MI	1.00	4	21	19.0%	5956	28602	20.8%
Oak Bluffs	MIE	1.50	2	5	40.0%	1189	4527	26.3%
Orange	I	1.00	2	7	28.6%	2311	7839	29.5%
Orleans	I	1.00	2	7	28.6%	1524	5890	25.9%

Municipality	EJ criteria*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Palmer	I	1.00	2	9	22.2%	3067	12140	25.3%
Peabody	MIE	1.50	6	32	18.8%	11074	51251	21.6%
Pittsfield	MI	1.58	19	48	39.6%	16445	44737	36.8%

**260-20 & 261-20**

Plainville	I	1.00	1	5	20.0%	1004	8264	12.1%
Plymouth	MI	1.00	2	38	5.3%	1879	56468	3.3%
Provincetown	I	1.00	2	5	40.0%	1116	2942	37.9%
Quincy	MIE	1.16	50	72	69.4%	68791	92271	74.6%
Randolph	MI	1.05	19	19	100.0%	32112	32112	100.0%
Revere	MIE	1.44	36	42	85.7%	45247	51755	87.4%
Rockland	I	1.00	1	11	9.1%	1982	17489	11.3%
Salem	MIE	1.89	9	33	27.3%	12967	41340	31.4%
Saugus	I	1.00	1	20	5.0%	1872	26628	7.0%
Sharon	M	1.00	1	11	9.1%	2069	17612	11.7%
Sheffield	I	1.00	1	4	25.0%	729	3257	22.4%
Shirley	M	1.00	1	4	25.0%	3153	8147	38.7%
Shrewsbury	ME	1.17	6	20	30.0%	11670	35608	32.8%
Somerville	MIE	1.29	35	69	50.7%	40721	75754	53.8%
Southbridge	MIE	1.70	10	16	62.5%	11182	16719	66.9%
Spencer	I	1.00	1	10	10.0%	886	11688	7.6%
Springfield	MIE	1.81	110	121	90.9%	137083	153060	89.6%
Stoneham	I	1.00	1	17	5.9%	560	21437	2.6%
Stoughton	MI	1.17	6	19	31.6%	6661	26962	24.7%
Taunton	MIE	1.44	9	31	29.0%	13206	55874	23.6%
Tisbury	I	1.00	1	5	20.0%	702	3949	17.8%
Waltham	MI	1.18	28	48	58.3%	36094	60632	59.5%
Ware	I	1.00	2	7	28.6%	2894	9872	29.3%
Wareham	MI	1.00	4	17	23.5%	4522	21822	20.7%
Warren	I	1.00	1	4	25.0%	1296	5135	25.2%
Watertown	M	1.00	6	29	20.7%	6268	31915	19.6%
Webster	I	1.00	3	11	27.3%	5211	16767	31.1%
Wellesley	M	1.00	3	23	13.0%	5550	27982	19.8%
West Springfield	MIE	1.63	8	20	40.0%	11166	28391	39.3%
Westborough	M	1.00	4	12	33.3%	6589	18272	36.1%
Westfield	MI	1.27	11	26	42.3%	14147	41094	34.4%
Westford	M	1.00	1	12	8.3%	2230	21951	10.2%
Weymouth	M	1.00	2	45	4.4%	3868	53743	7.2%
Whitman	I	1.00	1	13	7.7%	705	14489	4.9%
Wilbraham	I	1.00	1	9	11.1%	1278	14219	9.0%
Williamstown	MI	1.00	1	7	14.3%	861	7754	11.1%

**260-20 & 261-20**

Winchendon	I	1.00	2	7	28.6%	1897	10300	18.4%
Winchester	M	1.00	1	15	6.7%	2938	21374	13.7%
Winthrop	E	1.00	1	19	5.3%	876	17497	5.0%
Woburn	M	1.00	5	28	17.9%	8689	38120	22.8%
Worcester	MIE	1.75	106	149	71.1%	127938	181045	70.7%
Yarmouth	I	1.00	5	22	22.7%	4783	23793	20.1%



Ruthanne Fuller  
Mayor

City of Newton, Massachusetts  
Office of the Mayor

260-20 & 261-20

Telephone  
(617) 796-1100  
Fax  
(617) 796-1113  
TDD/TTY  
(617) 796-1089  
Email  
rfuller@newtonma.gov

Honorable City Council  
Newton City Hall  
1000 Commonwealth Avenue  
Newton, MA 02459

Honorable City Councilors:

I respectfully submit a docket item to your Honorable Council requesting the approval to accept and expend \$80,000 in grant funding from the MassDOT's Workforce Transportation Program to expand the Bluebikes system into Newton this summer. The City will provide \$20,000 in match funding and will contract with Motivate, the firm that manages the Bluebikes system in metro Boston. In addition, the City will be gifted the equipment (including bikes) for six bike share stations from MetroFutures Inc. valued at approximately \$224,257.

Attached is memo from Director of Transportation Planning Nicole Freedman regarding the grant. Also attached is the project summary submitted to MassDOT by the regional collaborative of Arlington, Chelsea, Newton and Watertown. Currently Bluebikes are operating within the Brookline-Cambridge-Boston-Somerville-Everett area.

Thank you for your consideration of this matter.

Sincerely,

Mayor Ruthanne Fuller

RECEIVED  
2020 MAY 11 AM 11:37  
CITY CLERK  
NEWTON, MA. 02459



**Ruthanne Fuller**  
Mayor

**City of Newton, Massachusetts**  
Department of Planning and Development  
1000 Commonwealth Avenue Newton, Massachusetts 02459

Telephone  
(617) 796-1120  
Telefax  
(617) 796-1142  
TDD/TTY  
(617) 796-1089  
[www.newtonma.gov](http://www.newtonma.gov)

**Barney S. Heath**  
Director

---

**MEMORANDUM**

**Date:** May 11, 2020  
**To:** Maureen Lemiux, Chief Financial Officer  
**From:** Nicole Freedman, Director of Transportation Planning  
**Cc:** Barney Heath, Director of Planning  
**Subject:** Request to Docket Item to Accept MassDOT Workforce Transportation Grant,  
and bike stations for bike share

---

We request approval to accept and expend the following items to support Newton's planned bike share system.

1. \$80,000 in grant funding from MassDOT's Workforce Transportation Program
2. A gift of the equipment for six bike share stations including associated bikes from 501(c)(3) MetroFuture Inc, valued at approximately \$224,257.

The City is contracting with Motivate to provide operations for an expansion of the Bluebikes system into Newton in summer, 2020. The City will provide \$20,000 in match funding to assist with this launch.



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, MassDOT Secretary & CEO  
Astrid Glynn, MassDOT Rail & Transit Administrator

260-20 & 261-20



February 5, 2020

Mr. Ben Cares  
City of Chelsea  
500 Broadway, Room 101-104  
Chelsea, MA 02150

Dear Mr. Cares,

On behalf of Governor Baker and Lieutenant Governor Polito, I am pleased to notify you that the City of Chelsea has been competitively selected to receive a Workforce Transportation Program funding award for the following project(s):

**Bike-Share System Implementation Program in the amount of \$340,000**

Providing more reliable and convenient travel options for workers will be an important component of our economic success. We are very pleased to support your effort in that area.

In the coming weeks, you will receive further information from the MassDOT Transit Unit detailing next steps. Please feel free to contact Thomas Schiavone (Thomas.Schiavone@dot.state.ma.us) if you have any questions in the meantime.

Thank you again for your continued commitment to improving transportation options across the Commonwealth.

Sincerely,

Astrid Glynn  
Rail & Transit Administrator

**MassDOT's 2019**  
**Workforce Transportation Program Grant**  
***A Bike-Share System Implementation Program***  
**A Regional Application Between**

Arlington, MA

Chelsea, MA

Newton, MA

Watertown, MA

Lead Contact for Application:

Benjamin Cares, Planner/Project Manager, City of Chelsea

617.466.4187, [bcares@chelseama.gov](mailto:bcares@chelseama.gov)



**Town of Arlington**

Adam W. Chapdelaine  
Town Manager

730 Massachusetts Avenue  
Arlington MA 02476-4908  
Phone (781) 316-3090

October 7, 2019

Alex Cox  
Manager of Transit Grant Programs  
Massachusetts Department of Transportation  
10 Park Plaza, Suite 4160  
Boston, MA 02116

Re: Workforce Transportation Grant – Joint Bike Share/Blue Bikes Application

Dear Mr. Cox:

I am writing in support of the joint application from Arlington, Newton, Chelsea, and Watertown for capital investment to become part of the Bluebikes bike share program. A majority of residents from the Town of Arlington commute to Boston and Cambridge and would benefit greatly from an interoperable bike share system that would allow these workers to commute directly from Arlington to these cities via bike share.

Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities into neighboring communities. Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is the best option for creating a truly regional and sustainable first/last mile transportation solution. We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that a fully integrated regional bike share system will provide even more benefits to our workers and residents.

The Town plans to put in a 20% share of the \$100,000 requested for our portion of the application, or \$20,000. We have requested capital funding through our budgetary process to pay for this match, which will need to be approved by Town Meeting in spring 2020.

Thank you for your consideration of this application. Should you have questions about this letter, please contact Daniel Amstutz, Senior Transportation Planner, at [damstutz@town.arlington.ma.us](mailto:damstutz@town.arlington.ma.us) or at 781-316-3093.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adam W. Chapdelaine".

Adam W. Chapdelaine  
Town Manager

Cc: Jennifer Raitt, Director, Department of Planning & Community Development





CITY OF CHELSEA, MA

City Hall, 500 Broadway • Chelsea, MA 02150

October 11, 2019

To Whom It May Concern,

I am pleased to submit our regional application for the MassDOT Workforce Transportation Program grant with partner municipalities Arlington, Newton and Watertown. Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities of Boston, Somerville, and Cambridge and into neighboring communities and gateway cities.

Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is the best option for creating a truly regional and sustainable first/last mile transportation solution.

We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that a fully integrated regional bike share system will provide even more benefits to our workers and residents.

Thank you for your consideration of our regional application.

Sincerely,

Thomas G. Ambrosino

City Manager

City of Chelsea



Ruthanne Fuller  
Mayor

City of Newton, Massachusetts  
Office of the Mayor

Telephone  
(617) 796-1100  
Fax  
(617) 796-1113  
TDD/TTY  
(617) 796-1089  
Email  
rfuller@newtonma.gov

October 11, 2019

Astrid Glynn  
Rail and Transit Administrator  
MassDOT Rail and Transit Division  
10 Park Plaza, Suite 4160  
Boston, MA 02116

Dear Astrid,

I am pleased to submit our collective application for a MassDOT Workforce Transportation Program grant with partner municipalities Arlington, Chelsea and Watertown for a bike share project.

Our bike share project will enable the first major expansion of Bluebikes beyond the inner core cities into our neighboring communities. Expanding the Bluebikes bike share system, by adding twenty new stations in four new communities, is an excellent option for creating a truly regional and sustainable first/last mile transportation solution. We have seen the potential for bike share over the last two years with our Lime Bike system; we are confident that this fully integrated regional bike share system will provide even more benefits to employees and residents. Newton is prepared to commit \$20,000 as match (subject to City Council approval) to \$80,000 in grant money requested for five bike stations in Newton.

Thank you for your consideration of our collective application.

Sincerely,

Ruthanne Fuller

A handwritten signature in dark ink, appearing to read "Ruthanne Fuller", is written over a horizontal line.

Mayor, City of Newton



## Watertown Town Council

Administration Building  
149 Main Street  
Watertown, MA 02472  
Phone: 617-972-6470

October 8, 2019

ELECTED OFFICIALS:

Mark S. Sideris,  
Council President

Caroline Bays,  
Councilor At Large

Anthony J. Donato,  
Councilor At Large

Susan G. Falkoff,  
Councilor At Large

Anthony Palomba,  
Councilor At Large

Angeline B. Kounellis,  
District A Councilor

Lisa J. Feltner,  
District B Councilor

Vincent J. Piccirilli, Jr.,  
District C Councilor

Kenneth M. Woodland  
District D Councilor

Ms. Astrid Glynn  
Rail and Transit Administrator  
MassDOT  
Ten Park Plaza, Suite 4160  
Boston, MA 02116

Re: MassDOT Workforce Transportation Program

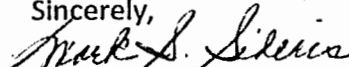
Dear Ms. Glynn:

Watertown is submitting a second application for the Workforce Transportation Program, for a joint program with Newton, Arlington and Chelsea, to launch a bike share program that would expand BlueBikes into the four communities. Watertown has been hosting LimeBikes for the past year and a half, with some success. However, a limiting factor for the LimeBikes program is that bikes cannot be taken into Boston and Cambridge, and therefore cannot be used to access the MBTA subway stations. Expanding BlueBikes into Watertown could potentially greatly increase our public transit ridership. Transit use by residents is lower than it could be because it consists only of buses. BlueBikes would provide residents with an additional means to access the Red and Green Lines. In addition, Watertown has a growing supply of office and lab space, with many new employees coming to Watertown from varying locations. BlueBikes would therefore serve both employees coming into Watertown and residents leaving Watertown during peak commuting hours. We think this could have an impact on congestion and air quality.

The Watertown Town Council strongly supports the application of the four communities, Watertown, Newton, Arlington and Chelsea, to help fund a regional bike share program. In addition to expanding transportation choices in Town, we value the opportunity to develop a regional transportation network with our neighboring communities. The Town is committed to providing a local match (\$20,000), using our TNC funds.

We thank you for your consideration of our project, and look forward to working with you on it.

Sincerely,

  
Mark S. Sideris  
Council President  
MWS



185 Berry Street  
Suite 5000  
San Francisco, CA 94107

10.8.2019

Mr. Alex Cox

Manager of Transit Grant Programs

Massachusetts Department of Transportation

10 Park Plaza, Suite 4160

Boston, MA 02116

Dear Mr Cox,

Lyft is pleased to submit this Letter of Commitment in support of the City of Chelsea's application to the Massachusetts Department of Transportation's Workforce Transportation Program.

As you know, Lyft currently operates the municipally-owned Bluebikes bikeshare system across five municipalities – Somerville, Cambridge, Boston, Everett and Brookline. We are always looking for ways to grow the system, and would be pleased to bring the Bluebikes service to Chelsea in the future if resources allow.

Specifically, we can commit to offering the following in conjunction with Chelsea's application for the

Workforce Transportation Program:

- Install at least \$100,000 of bikeshare equipment under an exclusive bikeshare program in Chelsea.

Please do not hesitate to reach out with any questions.

Sincerely,

*Miller Nuttle*

Miller Nuttle

Senior Manager, Bike and Pedestrian Policy

Lyft



SMART GROWTH AND REGIONAL COLLABORATION

October 11, 2019

Alex Cox

Manager of Transit Grant Programs

Massachusetts Department of Transportation

10 Park Plaza, Suite 4160

Boston, MA 02116

Dear Mr. Cox,

The Metropolitan Area Planning Council is pleased to submit a letter of support of the Town of Arlington and the Cities of Chelsea, Newton, and Watertown's grant application to the Massachusetts Department of Transportation Workforce Transportation Grant Program.

MAPC has worked in close partnership with these communities for the past two years to establish a regional bike share system that connects residents and employees to and from transit, and offers an alternative to vehicle travel for short trips. Advancing regional bike share is an important piece of our mission to promote smart growth and regional collaboration. Not only does bike share encourage more active transportation, but also helps alleviate the growing traffic congestion crisis impacting our region.

Arlington, Chelsea, Newton, and Watertown have all seen strong ridership and enthusiasm among residents for bike share. We are committed to continuing our work with these communities, Lyft, and the cities and towns currently served by the BlueBikes system to grow the network. Among many transportation and public health benefits, this expansion will also offer more residents the ability to bike to job centers in the region. MAPC has been a dedicated partner since the inception of this system, and we look forward to continuing to convene and facilitate these important discussions.

Thank you for your consideration, and please do not hesitate to reach out if you have any questions.

Sincerely,

Eric Bourassa

Director of Transportation

Metropolitan Area Planning Council

## INTRODUCTION

The municipalities of Arlington, Chelsea, Newton and Watertown are seeking funding to supplement the capital and start-up costs of a bike-share system provided through Lyft's BlueBikes program. Through this partnership, the municipalities propose a coordinated effort consisting of contracting, marketing, deployment, and operational management.

Each municipality has seen significant ridership in their current bike-share systems under Lime. Unfortunately, Lime's contract will terminate at the beginning of May 2020, thus leaving our municipalities without a system, unless a viable alternative is financed, procured, and deployed. Inter-municipal consultations and public feedback have magnified the need to maintain a bike share system, with preferences expressed for a network with physical docking stations. Access to bicycle transportation is key for the municipalities, as the regional workforce increasingly depends on bicycling as a commuting method, particularly employees that work evening and overnight shifts after the MBTA has closed down.

The BlueBike system, overseen by Lyft, offers an opportunity to conceive a regional, integrative bike share system, underscored by the interoperability with the existing BlueBike network in Boston and surrounding communities. In order to contract with Lyft, municipalities must contribute \$100,000 (50%) to a total start-up cost of \$200,000. Once operational, Lyft will fully subsidize maintenance costs if the municipalities grant to Lyft the exclusive right to operate bike share systems in their jurisdiction. In order to continue a bike-share system within our municipalities, we are submitting this application to fund the implementation of the BlueBikes system at or around May 1<sup>st</sup>, 2020, in order to coincide with Lime's departure.

A regional expansion of a demonstrably successful bike-share system, evidenced by the experience of Boston, Cambridge, and Somerville, is an effective way to continue a promotion of a modal shift away from single occupancy vehicles within the municipalities, while serving demographic cohorts that are in need of innovative and cost-effective modes of transportation to and from their places of work.

Additionally, we have coordinated our efforts to establish a cohesive implementation plan, project scope, and budgetary forecast in order to demonstrate the feasibility of this project upon receipt of grant funding. This is underpinned by a comprehensive citizen outreach and engagement plan. This engagement approach is centered on informing the public of the availability and ease of use of bike sharing and soliciting input on the system's architecture and siting locations. Furthermore, we have also compiled letters of support from each City's Executive Officer, all of which are poised to lead the implementation of this system if grant funding is secured, as well as Lyft, whom have committed to fund a share of capital start-up costs.

The total project cost for each municipality is \$200,000, equaling a total project cost for all municipalities of \$800,000. Each municipality, as outlined within their attached respective budgets, has committed at least 20% matching funds in order to satisfy the grant requirement, through a combination of capital funding and/or Lyft's private commitment. Based on this financial plan,

Chelsea is requesting \$100,000 in MassDOT grant funds, while Arlington, Newton, and Watertown are each requesting \$80,000 in grant funds. Therefore, we respectfully request a total of \$340,000.

#### ANALYSIS OF LIME-BIKE DATA

Demonstrable ridership shows a demand for bike-share systems within our communities. For example, the Metropolitan Area Planning Council (MAPC) noted approximately 30,000 trips per month were observed across sixteen cities and towns from June through October. Ridership dropped significantly during winter months from January through March, but still maintained approximately 1,500 trips per month. In Table 1, we show each municipality's Lime bike ridership from April 1, 2018 through June 30<sup>th</sup>, 2019.

*Table 1: Bike Share Applicant Municipalities (April 1<sup>st</sup>, 2018 to June 30<sup>th</sup>, 2019)*

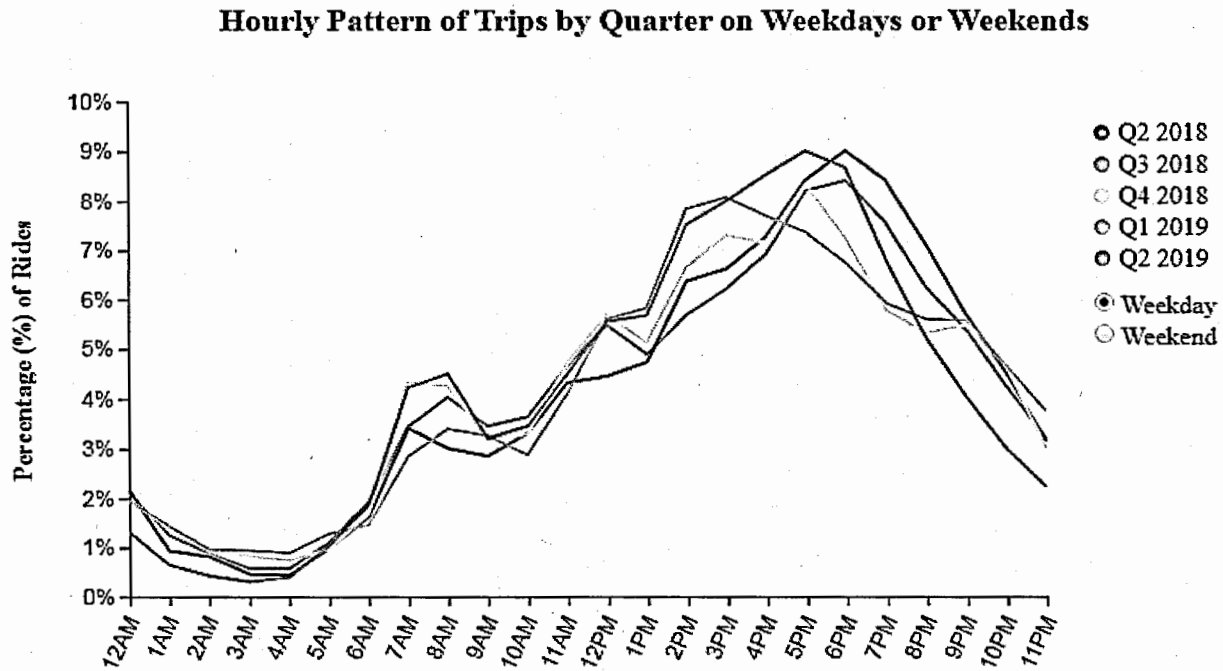
Municipality	Total Number of Trips	Total Weekday Trips	Total Weekend Trips
Arlington	17,327	12,592	4,734
Chelsea	13,455	10,138	3,317
Newton	19,420	14,314	5,106
Watertown	14,335	10,161	4,174
<b>Total</b>	<b>64,537</b>	<b>47,205</b>	<b>17,332</b>

\*MAPC's Dockless Bike Travel in Metro Boston Report

This data supports that there is a significant level of demand for bike-share within our municipalities. Additionally, as illustrated in the graph below, high levels of usage occurred during peak commuting hours, specifically during afternoon trips (Figure 1). According to MAPC Lime Data, which documented over 250,000 trips from April 1, 2018 to June 30<sup>th</sup>, 2019 the majority of rides occurred daily within evening peak hours.

Additionally, survey data (Attachment #1) collected by the MAPC illuminates our resident's usage of the existing bike-share systems for commuting purposes. A diverse cross-section of 233 riders were surveyed in order to assess their purposes for using Lime's bike-share system, yielding 78 riders stating they used Lime bike's system for commuting purposes. Therefore, with the continuation of a bike-share system, we estimate that our ridership post-implementation of the Bluebikes system will be comprised of at least 33% workforce or student commuters. Moreover, with targeted implementation of Bluebike stations within central business districts and careful coordination with businesses and other employers, our implementation plan will increase projected workforce ridership and promote further modal shift while providing an innovative, sustainable transportation mode to our communities.

**Figure 1: MAPC Lime Data (2019)**



It is important to note that these ridership numbers are reflective of Lime's dockless system; however, we do not expect ridership to decrease in moving to a station-based system like Bluebikes. Rather, we believe that a regionally connected system within Boston's metropolitan region, with stations located at key public transit stops and station and businesses districts will demonstrably increase ridership, and specifically ridership within workforce populations.

Additionally, based on dialogue with Lyft and other BlueBikes partners, there is also a strong potential for the Bluebikes system to evolve towards hybrid docked and dockless bike types, pending action from the state legislature on the topic. In order for these hybrid bike systems to become more viable, however, a strong docked bike system must be established in order to develop financial stability and a robust initial rider network.

#### **BENEFIT OF BLUEBIKES TO WORKFORCE TRANSPORTATION AND REGION**

Through an analysis of existing bike-share data, we have demonstrated demand for the current bike-share system within each of our municipalities. We have also related how existing data demonstrates a potential need for bike-share systems within our workforce, through observations of peak usage during commuting hours, and through the MAPC survey results. Beyond this, the introduction of a Bluebikes system will increase ridership among our workforce populations if implemented in a way that benefits central business districts and key public transit locations.



Our implementation plan involves significant coordination with Lyft representatives and businesses in order to target locations that will benefit the largest population of potential riders while ensuring Lyft reaches their ridership and budgetary benchmarks. Lyft has communicated to each of our municipality's their desire to implement stations within central business districts and along key transit routes, as this benefits dense populations with characteristics that align with high usage and the potential to use bike-shares for commuting and daily purposes. We believe this will promote further usage of bike-share systems to commute to and from work directly and within first-mile and last mile-gaps between transit.

NATCO released a report on bike-share systems throughout the United States. Their review of bike-share data within Seattle, WA resulted in the following findings on docked systems versus dockless systems, which reinforces our assumptions on how a station-based bike-share system will benefit our municipality's workers:

*"Data from Seattle suggests that dockless bike share may be used differently from station-based bike share systems in other places around the U.S. and world. For example, typically station-based systems generate the most trips on weekdays and use within the average day follows 9-5 commuting patterns. In 2017, 48% of all station-based bike share trips took place during rush hours (7-9AM or 4-6PM), and 76% of all trips took place on weekdays.<sup>1</sup>*

*In contrast, dockless bike share in Seattle has an evening peak but no morning rush hour peak and trips are spread out over the day with highest use seen on weekends, suggesting more recreational use.*

*The presence of weekday and AM/PM rush hour peaks is important because it suggests that station-based systems are part of a city's overall transportation network and are used in the course of a typical commute to work or school. For instance, annual member surveys from Washington, DC and Chicago also show significant bike share to transit crossover: 65% of Capital Bike Share members and 42% of Divvy members respectively report using bike share as part of longer transit commutes."<sup>2</sup>*

The findings of Seattle's study as published in NATCO also make a substantial case for the ability of bike-share systems to supplement public transportation routes, especially when effectively placed at key transit locations. Moreover, a transition from Lime's dockless system to the station-based system under Lyft will likely generate increased ridership among workers and residents alike, which will be furthered by the tactical siting of the BlueBikes docking systems in key employment centers, industry clusters, and central business districts.

Finally, Lyft provides financial accessibility of Bluebikes to low-income demographics through a robust low-income program. Low-income individuals tend to have diminishing affordability for expensive single-occupancy vehicles and rely heavily on public transportation. Through provision of an innovative solution to filling public transportation gaps within last-mile

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<sup>1</sup> NATCO's Bike Share and Shared Micromobility Initiative, Bike Share in the U.S.: 2017

and first-mile trips, Bluebikes can provide a bike-share system that benefits a particular subset of a lower-income workforce population.

## ENVIRONMENTAL IMPACT

Modal shifts from single-occupancy vehicles towards public transportation and bicycling may reduce congestion within Boston's metropolitan urban core and inner ring when coupled with other congestion reduction policy measures. Our municipalities are working towards infrastructure that promotes and accommodates walking, bicycling, and the use of public transit.

Notably, each of municipalities has participated to some degree within the Complete Streets initiative through MassDOT. Infrastructure improvements under this program include increased safety among cyclists through the implementation of bicycle lanes and signage programs which help to encourage cycling within our communities. Through our participation in this effort we have demonstrated our ability to provide adequate infrastructure in order to accommodate a regional bike-share system, and to further increase modal shifts within our municipalities.

Each of our municipalities has some level of characteristics that qualify them as Environmental Justice (EJ) communities (Attachment #3). We have vulnerable communities who are more susceptible than others to the impacts of pollutants and health hazards perpetuated by the use of cars and other motor-vehicles. Primarily, asthma rates have been reported state-wide by Mass.gov at the rate of 10.2% among adults and 12.9% among children. These rates are significantly higher among residents in close proximity to congested, densely populated, and highly traveled streets, who often fall within at least one of the three characteristics of EJ populations. Any modal shift from a motor-vehicle to the use of bikes will contribute to the reduction of pollutants that disproportionately affect these EJ communities.

The act of cycling produces virtually zero greenhouse gas emissions, making it enormously beneficial to the reduction of emissions state-wide. Any modal shift from a motor-vehicle to the use of bikes will contribute to the reduction of pollutants that disproportionately affect these EJ communities. We are confident that these metrics will result in a positive Air Quality Benefit Analysis (Attachment #2), resulting in significant reduction in CO<sub>2</sub> levels and other greenhouse gas emissions.

## IMPLEMENTATION PLAN

Our implementation plan outlines our strategy once we have secured adequate funding to engage in a contract with Lyft, which would occur from May 2020 until May 2022, with the ability to continue this contract if each municipality chooses to do so.

### 1. Contract with Lyft

- a. Contract with Lyft would begin May 1<sup>st</sup>, 2020 and run for two years, with the option to renew the contract for another two years, and subsequently, an additional two years. That means each municipality has the opportunity to continuously contract with Lyft, to at least May of 2026 or potentially further
- b. The contract, per municipality, enables the installation of five bike-share stations through a commitment of \$100,000 by the municipality. Subsequently, Lyft covers all other yearly expenses related to Operations and Maintenance of the system

## **2. Site Suitability Assessment**

- a. Municipal Staff create standardized methodology for selecting locations for each station, in consultation with stakeholders. This methodology will be consistently applied throughout all municipalities involved in this grant application. Municipal Staff will hold two (2) public meetings as part of this process to gather feedback on the assessment. Through their respective Complete Streets planning initiatives, the municipalities have conducted a gap analysis, which yielded findings that can be integrated into this assessment
- b. Public Right-of-Ways, transit hubs, dense residential areas, and business districts are primary targets in order to ensure active ridership and benefit to workforce population. Key indicators for consideration will include, but not be limited to, employment density, residential density, industry clusters, public transit stop and station locations, demography, and socioeconomic characteristics

## **3. Stakeholder Engagement**

- a. Coordinate with community based non-profits and other entities that can promote the installation of stations and ensure residents will be aware of the locations and function of these stations.
- b. Engage with businesses in municipality in order to assess who within their workforce can benefit from bike sharing systems
- c. Promote effort during regularly scheduled municipal meetings, such as stakeholder committees, board and commission meetings, and executive leadership meetings
- d. Coordinate with local Chambers of Commerce and other trade, industry, and labor groups to collect feedback and disseminate information about the effort.

## **4. Public Engagement**

- a. Hold public meetings to discuss installation of stations and ride share system; assess community feedback and tailor outreach efforts to increase awareness on bike safety and usage of ride sharing systems
- b. Installation involves delivery, off-loading, and placement of equipment. Installation does not require other attendant infrastructure, such as electrical connections, as the stations are self-sustaining

## **5. Installation of Stations**

- a. Municipal Staff along with Lyft Representatives monitor the physical installation of stations
- b. Installation involves delivery, off-loading, and placement of equipment. Installation does not require other attendant infrastructure, such as electrical connections, as the stations are self-sustaining
- c. Overall 20 stations would be installed between our four municipalities with 15 bikes per station; therefore, 300 bikes would be introduced to the regional bike-share system

## **6. Monitoring of Ridership and Modal Shift**

- a. Ongoing data collection from Lyft in order to assess ridership, rider habits, and benefit to workforce and other demographics within municipal populations
  - i. Three mechanics may be deployed in order to monitor activity and benefit of bike-share systems to workforce populations

1. First-mile and last-mile utility during peak commuting hours can be assessed through Lyft's amalgamation of data
2. Diverse cross-sectional surveying of Bluebike users by regional planning commissions like MAPC, or individually within municipalities, or through Lyft itself
3. Evaluation of ridership during off-hours of public transportation within Lyft amalgamated data sets

## KEY PERSONNEL

The following staff members for each municipality will oversee the implementation, operation, maintenance, and outreach of the Bluebikes system. In this way, we ensure sustainability and longevity of the system during and after its implementation.

<b>Arlington</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Daniel Amstutz	Planning & Community Development	Senior Transportation Planner	Primary project manager for bike share for City
Erin Zwirko	Planning & Community Development	Assistant Director	Oversees specific project goals and benchmarks, coordinates with Senior Transportation Planner
Jennifer Raitt	Planning & Community Development	Director	Oversees general project goals and benchmarks

<b>Chelsea</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Benjamin Cares	Planning & Development	Project Manager, Planner	Primary Project Manager, Primary project manager for bike share for City
Alexander Train	Planning & Development	Assistant Director	Oversees specific project goals and benchmarks, coordinates with Project Manager
John DePriest	Planning & Development	Director	Oversees general project goals and benchmarks

<b>Newton</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Nicole Freedman	Planning Department	Director of Transportation Planning	Primary project manager for bike share for City

Barney Heath	Planning Department	Director of Planning and Development	Oversees all Planning Department activity
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<b>Watertown</b>			
<i>Staff Person</i>	<i>Department</i>	<i>Title</i>	<i>Role</i>
Laura Wiener	Planning and Community Development Department	Senior Transportation Planner	Primary project manager for bike share for City
Steve Magoon	Community Development and Planning	Direct of Planning and Community Development and Assistant Town Manager	Oversees all activities within DCDP

## BUDGET

The full start-up and implementation cost of the Bluebikes system through Lyft is \$200,000 per municipality, totaling \$800,000. This cost covers the installation of five stations within the municipality, and subsequently Lyft will cover the operations and maintenance cost for the stations and bikes for the duration of the contract period. This financing scheme is sustainable because each municipality pays a portion of the start-up cost and then is not required to inject any further capital in order to run and maintain the Bluebikes system.

Matching requirements for this grant are broken down in the budget appended to this application. Each municipality more than satisfies the matching requirement of the grant, averaging a match of 57.5% of total project funds across our four municipalities.

## PARTNERSHIPS

The ongoing implementation of bike-share system within Boston and its surrounding municipalities is an existing partnership in and of itself unified under the MAPC's oversight and management. Through this regional grant application, we reinforce this unified effort and demonstrate how a regional bike-share system provides an effective means of transportation within our municipalities and its connectivity to the metropolitan region. We believe that this partnership with the MAPC qualifies as a public and regional partnership under this program. Following a grant award, the municipalities intend to continue meeting monthly through this regional bike share working group.

Additionally, we will establish a public-private partnership with Lyft. This partnership, as outlined above within the implementation process and budget, allows for sustainable implementation and maintenance of bike-share stations. Each municipality contributes staff time, expertise, and on-the-ground knowledge for effective placement and planning of bike-share systems, while Lyft provides the financial capital and administrative oversight to continue

providing Bluebikes to match demand, and can adequately run the necessary operations and maintenance of the system.

## **CONCLUSIONS**

Each of our municipalities has demonstrated demand for bike-share systems over the past year of contracting with Lime. Through MAPC survey data, we have seen that a diverse cross-section of 233 individuals utilize Lime bikes for commuting to work or school. Additionally, further analysis of data has yielded high percentages of ridership during peak commuting hours. Considering these two forms of data, it appears that there is significant demand for bike-share systems as a form of commuting. Our municipalities believe that we can increase this modal shift by connecting to existing Bluebike systems under Lyft within Boston, Somerville, Cambridge and subsequently, the entire region of the Boston Metropolitan Area.

In order to achieve our goals in providing a regional bike-share system to each of our municipalities, we hope to supplement the installation and start-up of a Bluebikes system through funding by the Workforce Transportation Grant. We are confident that through careful planning and coordination with businesses, Lyft, our residents, and the region as a whole, we will achieve our projected ridership benchmarks and see ridership increase substantially within workforce users.

## ATTACHMENT #1 (MAPC Survey Results)

## MAPC Lime Riders' Characteristics, Travel Patterns, and Preferences

In June 2019, we distributed a survey to MAPC-area riders and collected 233 responses.

We found:

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MAPC-area Lime riders are a diverse cross-section of the city's residents and visitors:

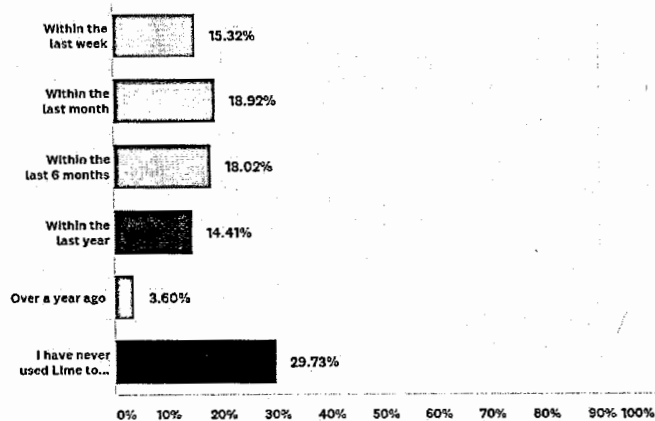
- **39% of riders** live in households earning **less than \$75,000 a year**.
  - Most Lime riders are employed: **77% work full time** and 8% work part time. About 15% of riders are students.
  - 81% of riders have an Associate, Bachelor's, or advanced (e.g., PhD, MD) degree.
  - The **average age** of a Lime rider is **37**, and 25% of Lime riders are 46 or older.
  - 75% of riders in the survey were White, 13% were Asian, and 12% were Hispanic.
  - **38% of riders** in the survey identified as **female** and 60% identified as male. This proportion of female riders is as high or higher than many docked bikeshare systems as well as personal bicycle use.
  - Only **5.6% of riders** stated that they lived outside of the MAPC region.
  - **53% of riders** last took a ride on a *personal bike* over a month ago, suggesting that Lime may be activating new riders.
  - **40% of riders** used BlueBike in the last month, showing how Lime and BlueBike are providing a robust network of first and last-mile solutions for MAPC-area travelers.
- 

Lime enables MAPC-area riders to reduce their reliance on cars:

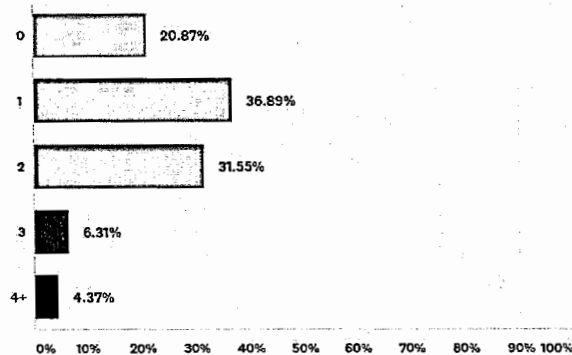
- On their most recent Lime rides, **32.8% of riders** used Lime rather than a car (personally owned, taxi, or ridehailing).
- **34.2% of riders** used Lime to get to or from public transit within the last month.
- Due to our riders' shift away from car trips, we estimate that Lime saved roughly **61 metric tons of CO2** that would have otherwise been emitted (as of July 2019).

- **57.8% of riders** live in households that own 1 or fewer cars.

Q7 When was the last time you used Lime to get to or from public transit?



Q9 How many cars do you or your household currently own?



Lime helps MAPC-area riders fulfill their everyday transportation needs. On their most recent Lime rides:

- **33% of riders** used Lime to commute to or from work or school.
- **17.2% of riders** used Lime to travel to or from dining or entertainment.



## ATTACHMENT #2

## Attachment B: Air Quality Benefits Analysis

This grant program is funded through the Congestion Mitigation and Air Quality Improvement (CMAQ)

Program, which is administered by the Federal Highway Administration (FHWA). The purpose of the CMAQ Program is to support transportation projects, transit service, and other related efforts that contribute to air quality improvements and mitigate the impacts of congestion. As such, to meet federal requirements related to CMAQ, project applicants are required to demonstrate that their proposed projects will reduce emissions and provide an air quality benefit. The questions in this section address this requirement.

The answers provided to these questions will be reviewed by the CMAQ Consultation Committee, which consists of members from the Massachusetts Department of Transportation (MassDOT), the

Massachusetts Department of Environmental Protection (MassDEP), the U.S. Environmental Protection Agency (EPA), and regional planning agencies within Massachusetts.

## Questionnaire

- 1.) Please select the category that most closely aligns with the proposed project:

Transit/Shuttle Service (Section A)

Bike share (Section B)

Qualitative Analysis / Other (Section C)

## A. Transit/Shuttle Service Questions

- 1.) Does your organization currently operate a transit or shuttle service? If not, skip to question 2. If yes, please complete the following tables:

Table 1: Summary of Currently-Operated Transit/Shuttle Vehicles					
Vehicle ID	Vehicle Type	Occupancy	Year of Manufacture	Vehicle Length	Fuel Required
1					
2					
3					
4					

Vehicle ID	Round Trips / Day	Length of Route (mi)	Average Speed (mph)	Daily Ridership	Days Operated / Year	Operation Hours

1						
2						
3						
4						

- 2.) Please provide the following details about the proposed transit or shuttle service and vehicles. If unsure, provide an estimate or leave blank:

Table 2: Summary of Proposed Transit/Shuttle Vehicles					
Vehicle ID	Vehicle Type	Occupancy (Number of Passengers)	Year of Manufacture	Vehicle Length	Fuel Required

Vehicle ID	Round Trips / Day	Length of Route (mi)	Average Speed (mph)	Daily Ridership	Days Operated / Year	Operation Hours

#### B. Bike Share Questions

- 1.) How many bikes will be included in this project?

***300 bikes total will be included; five stations with fifteen bikes each will be implemented among four municipalities as a part of this program.***

- 2.) What is the expected average bike trip length?

***The expected average bike trip length is 0.6 miles, based on the average trip taken by Lime bike riders and according to MAPC data.***

- 3.) What is the expected average number of trips per bike per day?

*We expect an average number of 1.7 trips per bike per day, this value was calculated through an analysis performed by NATCO under their Bike Share and Micromobility Initiative on station-based systems.*

- 4.) How many days of the year will your proposed bike share operate?

*Approximately 365, although this will be heavily affected by inclement weather and the decision making process of each municipalities Planning & Development and Public Works Departments.*

#### C. Qualitative Analysis

If none of the areas above apply to your project, please provide a qualitative assessment of why your project is expected to reduce emissions, citing applicable research where possible.

Please note that although quantitative analysis of air quality impacts is expected for almost all project types under the CMAQ program, an exception will be made when it is not possible to accurately quantify emissions benefits. In these cases, qualitative assessments based on reasoned and logical determinations that the projects or programs will decrease emissions will be conducted.

## ATTACHMENT #3 (List of Environmental Justice Communities)

Municipality	EJ criteria (Minority, Income, English Isolation)*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Acton	M	1.00	3	15	20.0%	7181	21924	32.8%
Adams	I	1.00	6	10	60.0%	5237	8485	61.7%
Agawam	I	1.00	1	17	5.9%	1213	28438	4.3%
Amherst	MIE	1.36	11	22	50.0%	14166	37819	37.5%
Andover	M	1.00	2	20	10.0%	2957	33201	8.9%
Aquinnah	M	1.00	1	1	100.0%	311	311	100.0%
Arlington	MI	1.17	6	44	13.6%	7333	42844	17.1%
Ashland	M	1.00	1	9	11.1%	901	16593	5.4%
Athol	I	1.00	2	8	25.0%	3108	11584	26.8%
Attleboro	MI	1.50	4	30	13.3%	5470	43593	12.5%
Ayer	MI	1.00	4	7	57.1%	3962	7427	53.3%
Barnstable	MI	1.38	8	38	21.1%	8838	45193	19.6%
Barre	I	1.00	1	4	25.0%	883	5398	16.4%
Becket	I	1.00	1	2	50.0%	1071	1779	60.2%
Belmont	M	1.00	5	27	18.5%	5360	24729	21.7%
Beverly	MI	1.50	2	30	6.7%	1727	39502	4.4%
Billerica	M	1.00	1	30	3.3%	2746	40243	6.8%
Boston	MIE	1.60	396	559	70.8%	456403	617603	73.9%
Braintree	MI	1.00	4	26	15.4%	4722	35744	13.2%
Brockton	MIE	1.34	84	87	96.6%	90,817	93810	96.8%
Brookfield	I	1.00	1	3	33.3%	891	3390	26.3%
Brookline	MIE	1.16	19	38	50.0%	29249	58732	49.8%
Burlington	M	1.00	2	15	13.3%	5088	24498	20.8%
Cambridge	MIE	1.18	55	88	62.5%	70972	105162	67.5%
Canton	M	1.00	1	11	9.1%	3085	21561	14.3%
Chelmsford	M	1.00	1	22	4.5%	1003	33802	3.0%
Chelsea	MIE	2.00	27	27	100.0%	35177	35177	100.0%
Chicopee	MIE	1.35	20	43	46.5%	28146	55298	50.9%
Clinton	MI	1.50	4	10	40.0%	5204	13606	38.2%
Dalton	I	1.00	2	7	28.6%	1538	6756	22.8%
Danvers	I	1.00	1	16	6.3%	912	26493	3.4%

**260-20 & 261-20**

Dartmouth	I	1.00	1	19	5.3%	1300	34032	3.8%
Dedham	M	1.00	2	21	9.5%	2814	24729	11.4%
Dennis	I	1.00	3	18	16.7%	1853	14207	13.0%
Dracut	I	1.00	1	18	5.6%	1173	29457	4.0%
Eastham	I	1.00	1	6	16.7%	920	4956	18.6%
Easthampton	I	1.00	2	12	16.7%	2499	16053	15.6%
Easton	I	1.00	1	11	9.1%	1696	23112	7.3%
Everett	MIE	1.52	27	27	100.0%	41667	41667	100.0%
Fairhaven	I	1.00	2	15	13.3%	1898	15873	12.0%
Fall River	MIE	1.29	56	81	69.1%	59242	88857	66.7%
Falmouth	I	1.00	2	26	7.7%	1955	31531	6.2%
Fitchburg	MIE	1.57	23	32	71.9%	24680	40318	61.2%
Framingham	MIE	1.65	20	45	44.4%	32550	68318	47.6%
Franklin	I	1.00	1	17	5.9%	1467	31635	4.6%
Gardner	MI	1.00	5	13	38.5%	7999	20228	39.5%

Municipality	EJ criteria*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Gloucester	I	1.00	4	23	17.4%	4824	28789	16.8%
Grafton	M	1.00	1	10	10.0%	2115	17765	11.9%
Great Barrington	I	1.00	3	7	42.9%	2395	7104	33.7%
Greenfield	I	1.00	3	17	17.6%	3438	17456	19.7%
Harwich	I	1.00	1	12	8.3%	523	12243	4.3%
Haverhill	MI	1.38	13	40	32.5%	21313	60879	35.0%
Holbrook	M	1.00	1	9	11.1%	1635	10791	15.2%
Holyoke	MIE	2.15	27	37	73.0%	29053	39880	72.9%
Lancaster	I	1.00	1	4	25.0%	1900	8055	23.6%
Lawrence	MIE	2.27	55	55	100.0%	76377	76377	100.0%
Lee	I	1.00	1	6	16.7%	994	5943	16.7%
Leicester	I	1.00	1	8	12.5%	1050	10970	9.6%
Lenox	I	1.00	1	7	14.3%	480	5025	9.6%
Leominster	MI	1.33	12	26	46.2%	20721	40759	50.8%
Lexington	M	1.00	11	22	50.0%	16604	31394	52.9%
Lincoln	M	1.00	1	5	20.0%	1286	6362	20.2%
Lowell	MIE	1.46	70	80	87.5%	93309	106519	87.6%

**260-20 & 261-20**

Ludlow	M	1.00	1	11	9.1%	2413	21103	11.4%
Lynn	MIE	1.75	56	72	77.8%	72884	90329	80.7%
Malden	MIE	1.38	50	52	96.2%	57638	59450	97.0%
Mansfield	M	1.00	1	14	7.1%	1703	23184	7.3%
Marlborough	MI	1.25	8	21	38.1%	14178	38499	36.8%
Mattapoisett	I	1.00	1	6	16.7%	569	6045	9.4%
Medford	MIE	1.15	20	53	37.7%	21905	56173	39.0%
Melrose	I	1.00	2	27	7.4%	2017	26983	7.5%
Methuen	MIE	1.40	15	35	42.9%	17463	47255	37.0%
Middleborough	I	1.00	2	14	14.3%	2189	23116	9.5%
Middleton	M	1.00	1	4	25.0%	3322	8987	37.0%
Milford	MIE	1.67	6	19	31.6%	6249	27999	22.3%
Millbury	I	1.00	1	10	10.0%	949	13261	7.2%
Milton	M	1.00	8	25	32.0%	7390	27003	27.4%
Monson	I	1.00	2	7	28.6%	556	8560	6.5%
Montague	I	1.00	4	8	50.0%	3,852	8437	45.7%
Nantucket	M	1.00	3	11	27.3%	3764	10172	37.0%
Natick	M	1.00	2	26	7.7%	2696	33006	8.2%
New Bedford	MIE	1.81	62	87	71.3%	66180	95072	69.6%
Newton	MI	1.00	10	64	15.6%	12723	85146	14.9%
North Adams	I	1.00	6	12	50.0%	7791	13708	56.8%
North Andover	MI	1.00	3	19	15.8%	4135	28352	14.6%
North Attleborough	I	1.00	1	18	5.6%	855	28712	3.0%
North Brookfield	I	1.00	1	5	20.0%	929	4680	19.9%
Northampton	MI	1.33	6	19	31.6%	7412	28549	26.0%
Norwood	MI	1.00	4	21	19.0%	5956	28602	20.8%
Oak Bluffs	MIE	1.50	2	5	40.0%	1189	4527	26.3%
Orange	I	1.00	2	7	28.6%	2311	7839	29.5%
Orleans	I	1.00	2	7	28.6%	1524	5890	25.9%

Municipality	EJ criteria*	Mean EJ criteria count in BGs	Number of EJ BlockGroups	Number of BlockGroups in municipality	Percent of BlockGroups in EJ	Population in EJ BlockGroups	Total population in municipality	Percent of population in EJ BGs
Palmer	I	1.00	2	9	22.2%	3067	12140	25.3%
Peabody	MIE	1.50	6	32	18.8%	11074	51251	21.6%
Pittsfield	MI	1.58	19	48	39.6%	16445	44737	36.8%

**260-20 & 261-20**

Plainville	I	1.00	1	5	20.0%	1004	8264	12.1%
Plymouth	MI	1.00	2	38	5.3%	1879	56468	3.3%
Provincetown	I	1.00	2	5	40.0%	1116	2942	37.9%
Quincy	MIE	1.16	50	72	69.4%	68791	92271	74.6%
Randolph	MI	1.05	19	19	100.0%	32112	32112	100.0%
Revere	MIE	1.44	36	42	85.7%	45247	51755	87.4%
Rockland	I	1.00	1	11	9.1%	1982	17489	11.3%
Salem	MIE	1.89	9	33	27.3%	12967	41340	31.4%
Saugus	I	1.00	1	20	5.0%	1872	26628	7.0%
Sharon	M	1.00	1	11	9.1%	2069	17612	11.7%
Sheffield	I	1.00	1	4	25.0%	729	3257	22.4%
Shirley	M	1.00	1	4	25.0%	3153	8147	38.7%
Shrewsbury	ME	1.17	6	20	30.0%	11670	35608	32.8%
Somerville	MIE	1.29	35	69	50.7%	40721	75754	53.8%
Southbridge	MIE	1.70	10	16	62.5%	11182	16719	66.9%
Spencer	I	1.00	1	10	10.0%	886	11688	7.6%
Springfield	MIE	1.81	110	121	90.9%	137083	153060	89.6%
Stoneham	I	1.00	1	17	5.9%	560	21437	2.6%
Stoughton	MI	1.17	6	19	31.6%	6661	26962	24.7%
Taunton	MIE	1.44	9	31	29.0%	13206	55874	23.6%
Tisbury	I	1.00	1	5	20.0%	702	3949	17.8%
Waltham	MI	1.18	28	48	58.3%	36094	60632	59.5%
Ware	I	1.00	2	7	28.6%	2894	9872	29.3%
Wareham	MI	1.00	4	17	23.5%	4522	21822	20.7%
Warren	I	1.00	1	4	25.0%	1296	5135	25.2%
Watertown	M	1.00	6	29	20.7%	6268	31915	19.6%
Webster	I	1.00	3	11	27.3%	5211	16767	31.1%
Wellesley	M	1.00	3	23	13.0%	5550	27982	19.8%
West Springfield	MIE	1.63	8	20	40.0%	11166	28391	39.3%
Westborough	M	1.00	4	12	33.3%	6589	18272	36.1%
Westfield	MI	1.27	11	26	42.3%	14147	41094	34.4%
Westford	M	1.00	1	12	8.3%	2230	21951	10.2%
Weymouth	M	1.00	2	45	4.4%	3868	53743	7.2%
Whitman	I	1.00	1	13	7.7%	705	14489	4.9%
Wilbraham	I	1.00	1	9	11.1%	1278	14219	9.0%
Williamstown	MI	1.00	1	7	14.3%	861	7754	11.1%

**260-20 & 261-20**

Winchendon	I	1.00	2	7	28.6%	1897	10300	18.4%
Winchester	M	1.00	1	15	6.7%	2938	21374	13.7%
Winthrop	E	1.00	1	19	5.3%	876	17497	5.0%
Woburn	M	1.00	5	28	17.9%	8689	38120	22.8%
Worcester	MIE	1.75	106	149	71.1%	127938	181045	70.7%
Yarmouth	I	1.00	5	22	22.7%	4783	23793	20.1%



## CITY OF NEWTON

RECEIVED

## DOCKET REQUEST FORM

2020 APR 22 AM 9:04

**DEADLINE NOTICE: Council Rules require items to be docketed with the Clerk of the Council NO LATER THAN 7:45 P.M. ON THE MONDAY PRIOR TO A FULL COUNCIL MEETING.**

To: Clerk of the City Council **CITY CLERK  
NEWTON, MA. 02459**

Date: 4/6/2020From (Docketer): Councilor DownsAddress: 854 Chestnut St., Waban 02468Phone: 617-378-8972E-mail: adowns@newtonma.govAdditional sponsors: Auchincloss, Bowman, Kelley, Laredo, Markiewicz, Norton, Wright

## 1. Please docket the following item (it will be edited for length if necessary):

Councilors above and Danberg, Greenberg, Krintzman, Lipof.... requesting discussion with the Administration on allowing for legal two-way bicycle travel on the Commonwealth Avenue Carriage Lane, between Woodbine Street and Mt. Alvernia Road (wards 2, 3, 4 & 7).

## 2. The purpose and intended outcome of this item is:

- ☒ Fact-finding & discussion  
☐ Appropriation, transfer,  
☐ Expenditure, or bond authorization  
☐ Special permit, site plan approval,  
☐ Zone change (public hearing required)

- ☐ Ordinance change  
☐ Resolution  
☐ License or renewal  
☐ Appointment confirmation  
☐ Other: \_\_\_\_\_

## 3. I recommend that this item be assigned to the following committees:

- ☐ Programs & Services  
☐ Zoning & Planning  
☐ Public Facilities

- ☐ Finance  
☒ Public Safety  
☐ Land Use

- ☐ Real Property  
☐ Special Committee  
☐ No Opinion

## 4. This item should be taken up in committee:

- ☐ Immediately (Emergency only, please). Please state nature of emergency:

I would be open to delaying any implementation until after the stay-at-home order for the pandemic is lifted, in order to give everyone walking the carriage road more space.

- ☐ As soon as possible, preferably within a month  
☒ In due course, at discretion of Committee Chair  
☐ When certain materials are made available, as noted in 7 & 8 on reverse  
☐ Following public hearing

PLEASE FILL OUT BOTH SIDES

## 5. I estimate that consideration of this item will require approximately:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> One half hour or less | <input type="checkbox"/> Up to one hour                        |
| <input type="checkbox"/> More than one hour               | <input type="checkbox"/> An entire meeting                     |
| <input type="checkbox"/> More than one meeting            | <input type="checkbox"/> Extended deliberation by subcommittee |

6. The following people should be notified and asked to attend deliberations on this item. (Please check those with whom you have already discussed the issue, *especially relevant Department Heads*):

City personnel

Citizens (include telephone numbers/email please)

☒ Jason Sobel☒ Brendan Keegan 215-280-1812☒ Nicole FreedmanJ☒ Mike Halle 617-721-8585☐ Capt. Anastasia☒ Jane Hanser 617-630-1814☐☐☐☐

## 7. The following background materials and/or drafts should be obtained or prepared by the Clerk's office prior to scheduling this item for discussion:

This is a follow-up on last term's discussion. Progress report, particularly on where Mr. Sobel or his department have come up with solutions to known safety issues with eastbound travel.

8. I ☐ have or ☐ intend to provide additional materials and/or undertake the following research independently prior to scheduling the item for discussion. \*

(\*Note to docketer: Please provide any additional materials beyond the foregoing to the Clerk's office by 2 p.m. on Friday before the upcoming Committee meeting when the item is scheduled to be discussed so that Councilors have a chance to review all relevant materials before a scheduled discussion.)

Please check the following:

9. ☐ I would like to discuss this item with the Chairman before any decision is made on how and when to proceed.
10. ☐ I would like the Clerk's office to contact me to confirm that this item has been docketed. My daytime phone number is:
11. ☐ I would like the Clerk's office to notify me when the Chairman has scheduled the item for discussion.

Thank you.

Andreae Downs

Signature of person docketing the item

[Please retain a copy for your own records]

# COMMONWEALTH AVENUE CARRIAGE LANE “PROMENADE”

—  
TWO-WAY Bicycle Traffic VISION

EASTBOUND for BICYCLES

Jane Hanser

# SIGNAGE Protects Bicyclists of All Ages





## SIGNAGE Protects *Pedestrians and Runners* Coming from the West. . .



... of All Ages





Drivers Heading South: LOOK BOTH  
WAYS/BIKE ROUTE sign to be added to  
existing STOP signpost for SB vehicles  
before crossing or entering the CR



Drivers Heading North: LOOK BOTH WAYS/BIKE ROUTE sign for vehicles entering or crossing the cut in the berm of the Carriage Road





Drivers Heading South where there is a  
“T” Intersection: LOOK BOTH WAYS sign  
on berm







# Bicyclists Heading East: STOP SIGN installed and STOP LINE painted before each N/S crossing



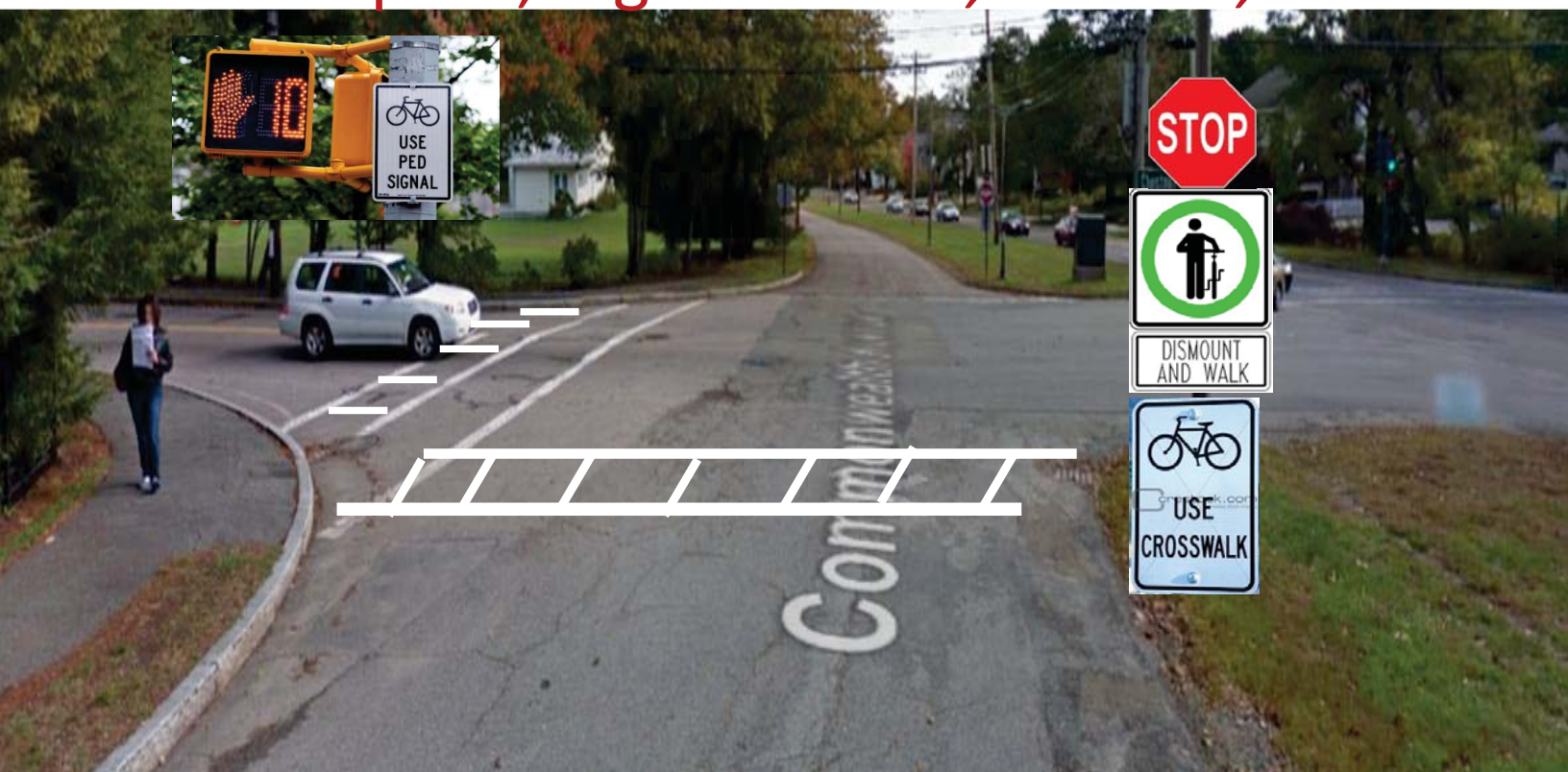
# Heading East Toward Boston: EXCEPT BIKES sign added to the existing DO NOT ENTER signs





# Bicycles Heading East at Signalized Intersections: END TWO-WAY

Signs to be added where section is exempted, e.g. *Chestnut, Auburn, etc.*



Heading East: REMOVE OR TRIM  
FOLIAGE and MOVE USPS DROP BOXES  
where they interfere with visibility





# STRIPING THROUGH THE INTERSECTION at select locations ...



Any Questions?



**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Tuesday, May 19, 2020 9:20 AM  
**To:** Danielle Delaney  
**Subject:** FW: Bike traffic on Comm Ave carriage path

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**From:** eastrachan  
**Sent:** Monday, May 18, 2020 9:33 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Bike traffic on Comm Ave carriage path

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

**Ms Delaney**

Per suggestion of Bike Newton, I am writing to support their proposal to allow 2 way biking on the Comm. Ave carriage path. I agree from my experience that its width and low traffic density allow for safe 2 way bike traffic, especially if signage is changed consistent with this proposal. I am a senior living in Waban 1/2 mile from Comm. Ave.. and have been advised by my doctor to exercise by biking rather than walking or jogging to minimize progression of arthritis in my hips. The carriage path is perfect for my needs, and likely those in a similar position.

Sincerely

Edward Astrachan  
11 Amy Circle

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Tuesday, May 19, 2020 9:19 AM  
**To:** Danielle Delaney  
**Subject:** FW: Two-way bike travel on Commonwealth Avenue Carriage Lane

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**From:** Andrew M. Greene <  
**Sent:** Monday, May 18, 2020 8:28 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Two-way bike travel on Commonwealth Avenue Carriage Lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

I am writing in support of permitting two-way bike travel on the Comm Ave Carriage Lane. As we all know, some bicyclists already safely use the carriage lane in this way. By formally supporting this with appropriate signage, we will improve the safety of all the cyclists, runners, joggers, and pedestrians who use one of our city's best opportunities for open-air exercise and bike-based commuting.

Thank you,  
Andrew M. Greene  
206 Mill St, Newton, MA 02460

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Monday, May 18, 2020 3:04 PM  
**To:** Danielle Delaney  
**Subject:** FW: biking on Comm Ave carriage lane

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**From:** Alta Hodges <  
**Sent:** Monday, May 18, 2020 2:20 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** biking on Comm Ave carriage lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Dear Ms Delaney,

I live on Commonwealth Ave in Auburndale, and I enjoy cycling. I have long thought that it would be convenient for many of us cyclists in Newton if the Comm Ave carriage lane were formally marked for 2-way bicycle travel. I want to indicate my strong support for this proposal.

Thanks you,  
Alta Hodges

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Monday, May 18, 2020 3:00 PM  
**To:** Danielle Delaney; Allan CicconeJR\_Comcast; Jacob D. Auchincloss; Julia Malakie; Christopher J. Markiewicz; Andreae Downs; Alicia Bowman; Rebecca Walker Grossman; Richard Lipof  
**Subject:** FW: Carriage Lane

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#248-20

**From:** Lawrence  
**Sent:** Monday, May 18, 2020 12:19 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Carriage Lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Yes. As a runner and a biker, I am very much in favor of this change. Since this section is frequently used by people training for the marathon, this would be particularly useful in the late winter and spring.

Tom Lawrence

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Monday, May 18, 2020 3:01 PM  
**To:** Danielle Delaney; Allan CicconeJR\_Comcast; Jacob D. Auchincloss; Julia Malakie; Christopher J. Markiewicz; Andreae Downs; Alicia Bowman; Rebecca Walker Grossman; Richard Lipof  
**Cc:** Ruthanne Fuller  
**Subject:** FW: Carriage Lane bike accommodation

#248-20

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**From:** Joseph Rosenbloom <>  
**Sent:** Monday, May 18, 2020 1:57 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Carriage Lane bike accommodation

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Dear Ms. Delaney:

Please note my fervent support for the plan to create a safe, bike friendly improvement to the Carriage Lane between Woodbine Street and Mount Alvernia Road.

The case for creating that public-works asset seems self-evident to me. It would realize greater potential use of the Carriage Lane for recreation and east-west bicycle transit without sacrificing the valid purpose of providing automobile access to the adjoining houses.

The moment is right for the change. Making the Carriage Lane more user friendly for bicycling would further the critical goal of promoting bicycling as an alternative to the vehicular traffic in Newton that consumes fossil fuels and contributes to climate change. At a time of limited recreational opportunities because of Covid-19, the case for promoting bicycling is all the more desirable.

I would appreciate it if you would relay this message to the Public Safety and Transportation Committee before its hearing on May 20, and convey my view to Mayor Fuller.

All best wishes,  
Joseph Rosenbloom  
25 Fairfax Street  
Newton

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Monday, May 18, 2020 3:05 PM  
**To:** Danielle Delaney  
**Subject:** FW: Commonwealth Avenue Carriageway

#248-20

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**From:** csnow  
**Sent:** Monday, May 18, 2020 2:21 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Commonwealth Avenue Carriageway

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

As residents of Brookline, my husband and I along with many of our local bicycling companions frequently bike on the Commonwealth Avenue Carriageway in Newton, and we consider it a very important link in what is gradually becoming a safer and more comprehensive regional bicycling network.

Having the carriageway be two-way for bicycles would considerably enhance its usefulness, and we urge Newton to approve this proposal.

Cynthia Snow

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Tuesday, May 19, 2020 9:19 AM  
**To:** Danielle Delaney  
**Subject:** FW: Commonwealth Avenue Carriage Lane

---

**From:** Linda Wolk <  
**Sent:** Monday, May 18, 2020 4:54 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Commonwealth Avenue Carriage Lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

I wholeheartedly encourage making the Carriage Road 2 way for bicycles. It is a unique opportunity to ride in a safe area for older persons  
Bike riding can be anxiety-producing for persons trying to ride with traffic or even on bike lanes very close to cars, and the Carriage Road provided extended exercise for my husband in the years before his passing.  
For that, we were always grateful.

Sincerely,  
Linda M Wolk  
345 Newtonville Ave

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 6:38 PM  
**To:** Danielle Delaney  
**Subject:** FW: Public Meeting: Two-Way Carriage Lane and Blue Bikes

-----Original Message-----

From: Harriet Fell <  
Sent: Wednesday, May 20, 2020 5:26 PM  
To: Danielle Delaney <ddelaney@newtonma.gov>  
Subject: Public Meeting: Two-Way Carriage Lane and Blue Bikes

Dear Danielle,

I am totally in favor of legalizing two-way travel on the carriage lane but I want to urge the city to make it clear that cyclists must ride on the right, as the law in Massachusetts requires. In fact, all those who use the lane, cars, cyclists, skaters, skate-boarders, scooters, and runners and walkers who choose to move be the lane rather than on the sidewalk should be required to stay on the right. The lane is too narrow to support people moving in opposite directions at the side of the lane. Such activity is dangerous at the best of times but worse when people are trying to maintain some kind of social distancing.

-- Harriet Fell



**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 6:43 PM  
**To:** Danielle Delaney  
**Subject:** FW: Danielle, This is the PowerPoint of that .pdf. Can you present this?  
**Attachments:** Commonwealth Ave Carriage Road\_Two-Way\_Eastbound.ppt

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**From:** jane hanser >  
**Sent:** Wednesday, May 20, 2020 5:37 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Danielle, This is the PowerPoint of that .pdf. Can you present this?

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Ms. Delaney,

The signs that were are recommending address the issues of concern that residents such as Mr. O'Neil have raised, in particular, looking to their right to see bicycle traffic coming from the west and heading east.

The PowerPoint also addresses briefly thoughts about dealing with signalized intersections, such as Melrose.

Thank you.

Jane Hanser

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 5:11 PM  
**To:** Danielle Delaney  
**Subject:** FW: FW: Public Meeting: Two-Way Carriage Lane Travel and Blue Bikes  
**Attachments:** Melrose Street Intersection 2020.pdf

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**From:** Robert O'Neil >  
**Sent:** Wednesday, May 20, 2020 4:45 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Fwd: FW: Public Meeting: Two-Way Carriage Lane Travel and Blue Bikes

[DO NOT OPEN links/attachments unless you are sure the content is safe. ]

I would like to present the attached slides about the limited line of sight at the Melrose Street and Commonwealth Avenue intersection for the discussion on eastbound bicycle traffic on the Carriage Way.

I support eastbound bicycle traffic, however I wanted to raise the issues regarding motorists not being able to see approaching bicycle traffic at some of the intersections such as the intersection with Melrose Street. In addition motorists should be made aware that there is eastbound bicycle traffic present so they know to look to their right if they are going to take a right turn onto the Carriage Way (which many drivers may not due if they are not expecting eastbound traffic on what has been a one-way roadway).

I will also send two more emails with video from the intersection which demonstrate that cyclist's currently ride eastbound and vehicles do not slow while crossing through the intersection. I have witnessed one collision between a cyclist and a motor vehicle at this intersection and witnessed a near miss as well.

Thank you for your time,  
*Robert O'Neil*

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**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 5:11 PM  
**To:** Danielle Delaney  
**Subject:** FW: FW: Public Meeting: Two-Way Carriage Lane Travel and Blue Bikes  
**Attachments:** CarsDontStop.mp4; BikesDontStop.mp4

---

**From:** Robert ONeil <  
**Sent:** Wednesday, May 20, 2020 4:51 PM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Re: FW: Public Meeting: Two-Way Carriage Lane Travel and Blue Bikes

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Attached is some video I captured of a near collision at the intersection of Melrose Street and Commonwealth Avenue.

In the video labeled "CarsDontStop" you can see that cars coming south on Melrose Street do not have to stop before crossing the Carriage Road and approaching Commonwealth Avenue.

Approximately 12 seconds after the car crossed the intersection a pair of cyclists riding East on the Carriage Road crossed the same intersection without stopping - that's shown in the video labeled "BikesDontStop".

Thankfully with my background in accident reconstruction and my familiarity with the intersection I was going well under the speed limit and was able to notice the cyclists in time, however if they'd ridden through the same intersection 12 seconds earlier they would have had a tragic interaction with the car traveling south on Melrose Street.

Neither the cyclists, nor the car had a sign telling them to stop before entering the intersection.

I am sure the City of Newton and the folks working on this project are aware of the issue, but just in case, I wanted to make sure this was highlighted to minimize the chances for serious collisions.

Thank you for your time,

*Robert O'Neil*













Vehicles heading south on Melrose Street are not required to stop before crossing the Carriage Road. The stop line for Melrose Street south is only at the intersection with Comm Ave.





If the light is green to cross Comm Ave, southbound vehicles on Melrose Street have no reason to stop before crossing the Carriage Road.





If the light is red, for southbound traffic on Melrose Street can still make a right turn onto the Carriage Road without stopping and enter Comm Ave westbound at a later point.



View Heading East on the Carriage Road

The Carriage Road narrows significantly at the intersection with Melrose Street, this is typically done to slow traffic, however it has the effect of moving cyclists into the center of the roadway.



View Heading East on the Carriage Road

There is very little room in this narrow section for a bicyclist and a vehicle to pass safely.





View Heading South on the Melrose Street

Cars traveling south on Melrose Street have the fence and bushes to their right at the intersection with the Carriage Road.



View Heading South on the Melrose Street

The fence, bushes and trees are such that they obscure the view of any cyclists heading eastbound on the Carriage Road.



View Heading South on the Melrose Street

I previously raised this as an issue for the safety of students ride to Burr in the mornings. It applies in general to anyone traveling eastbound through the intersection.



View Heading South on the Melrose Street

While photographing the intersection, a student rode by heading away from Burr. Notice on the next slide how the fence obscures the view of the bicyclist on the next slide.





View Heading South on the Melrose Street

Only part of the bicycle tire is visible past the fence. If the cyclist had been traveling eastbound they would not have been visible to a southbound motorist on Melrose Street before this point.





View Heading South on the Melrose Street

From this camera position if a vehicle were traveling at the speed limit they would have approximately 1.6 seconds to perceive, react and try to stop their vehicle to avoid a collision with a cyclist. Which is not sufficient time to avoid a collision.



View Heading South on the Melrose Street May 20, 2020

The previous photographs were from 2013. The intersection has changed slightly with a crosswalk, and white paint to indicate the intersection should not be blocked. However, the line of sight issues remain.

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 3:11 PM  
**To:** Danielle Delaney  
**Subject:** FW: In Support of #248-20 Two Way Bike Traffic on Commonwealth Avenue Carriage Lane

---

**From:** Scott Oran <>  
**Sent:** Wednesday, May 20, 2020 9:33 AM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** In Support of #248-20 Two Way Bike Traffic on Commonwealth Avenue Carriage Lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Chair Auchincloss, Vice Chair Downs and members of the Public Safety & Transportation Committee:

Please be sure to take action tonight on #248-20 to legalize two way bike traffic on Commonwealth Avenue's Carriage Lane and so create the long discussed Commonwealth Bikeway in 2020.

Unfortunately #193-19, that would have legalized two way bike traffic on the Commonwealth Avenue Carriage Lane, died without action taken last year.

We can't afford to let that happen again so I'm pleased that you will discuss #248-20 tonight.

This is surely the most cost effective project that the City can handily complete in one year with the single largest impact toward meeting its sustainability and transportation goals.

With just road paint and street signs, for considerably less than \$500,000, we can create a safe, separate and continuous six mile bikeway that can link to projects under consideration in Boston, Weston and Natick creating a 20-mile bike path for commuters, recreational riders and families.

As I describe in more detail below (from a letter to the editor published in the Newton Tab in September 2018), this will be truly transformational for the City. All that is lacking is political will.

Let's make this year, the year of the Commonwealth Bikeway. With our current safer at home policy in place for the foreseeable future, it's more timely than ever.

Thanks for your thoughtful consideration.

Best,

Scott Oran  
147 Prince Street

*The Commonwealth Bikeway: A Common Sense Idea*

*To the Editor:*

***It's time we re-purpose Commonwealth Avenue's 19th century Carriage Lane for the 21st century by creating a dedicated Commonwealth Bikeway with nothing more than road paint and street signs.***

***Commonwealth Avenue's Carriage Lane runs almost six miles across the width of Newton from the Charles River in Auburndale over Heartbreak Hill to Boston College in Chestnut Hill. Separated across a grassy landscaped median from Commonwealth Avenue, it is currently used by walkers, bikes, and some very light local traffic. Over 50,000 Newtonians live within a 5-minute bike ride or 10-minute walk. Yet it remains perhaps Newton's most heralded yet underutilized resource.***

***While the Carriage Lane is used informally now by cyclists who seek to avoid the car traffic on Commonwealth Avenue, this creates its own problems without adequate signage and traffic control with pedestrians and vehicles often confused by unexpected cyclists.***

***Adding appropriate signage and painting a two-way dedicated and separated Bikeway while maintaining existing one way westbound vehicular access is a readily realizable goal. In fact, it would be a quick win for bicycle enthusiasts and casual riders alike attracting kids and families with a safe place to ride as well as bike commuters.***

***An eventual goal would be to work with the City of Boston to extend the Commonwealth Bikeway through Brighton and Allston to provide a safe, dedicated 12-mile connection to and from Boston's Fenway, Back Bay, Financial District, and Seaport neighborhoods.***

***It would be a great addition to Newton's nascent bike share efforts and complement the current longer-term Washington Street and Needham Street complete streets planning. It has the added benefit of being quick and easy to design and relatively inexpensive to implement with just traffic signs and roadway paint needed.***

***Given its ease to design and build and broad support, it could be designed this fall and winter and built next spring.***

***The Commonwealth Bikeway is a common sense idea whose time is now. Its realization would make the Garden City even greener.***

***Scott Oran  
West Newton***

***For information, please visit [www.commonwealthbikeway.org](http://www.commonwealthbikeway.org).***

**Danielle Delaney**

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**From:** Danielle Delaney  
**Sent:** Wednesday, May 20, 2020 3:11 PM  
**To:** Danielle Delaney  
**Subject:** FW: Two-way travel on the carriage lane

---

**From:** Kristen Turpin <>  
**Sent:** Wednesday, May 20, 2020 11:00 AM  
**To:** Danielle Delaney <ddelaney@newtonma.gov>  
**Subject:** Two-way travel on the carriage lane

**[DO NOT OPEN links/attachments unless you are sure the content is safe. ]**

Dear Danielle Delaney,

I cannot attend the public meeting today, but I wanted to write in full support of legalizing two-way bike travel on the Commonwealth Avenue Carriage Lane. The Carriage Lane presents an enormous opportunity to instantly create a 5-mile, low car traffic, low stress, east-west route through Newton that will connect to improvements planned in Weston and Boston.

Especially now, due to overcrowding on the Charles River Greenway, we need safe, legal access to eastbound travel on the Carriage Lane.

Thank you for your support of this project, and please let me know if you'd like to have a conversation about my perspective as a mother, resident, academic, and cyclist.

Best,

Kristen Turpin, Ph.D.  
Brandeis University