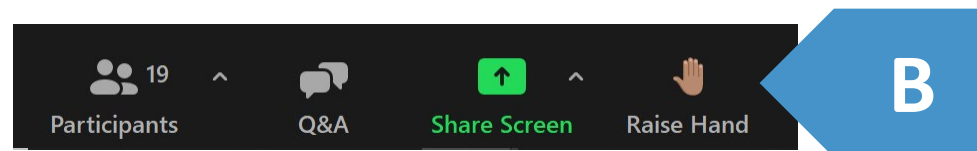
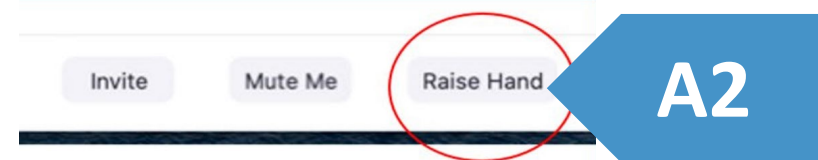
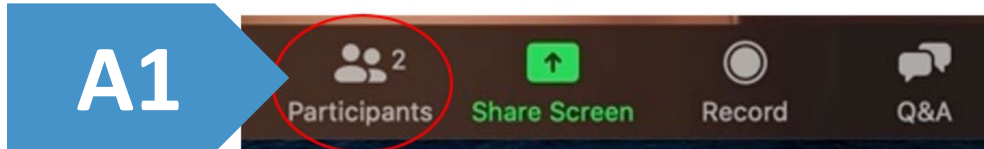


Committee Member Instructions

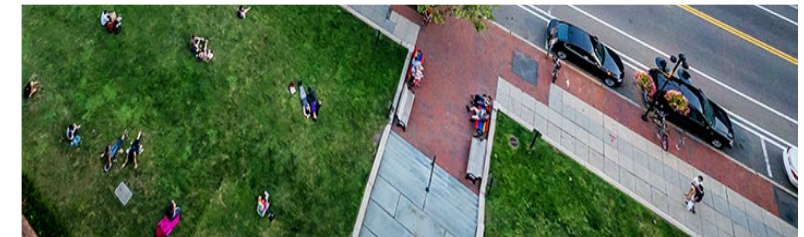
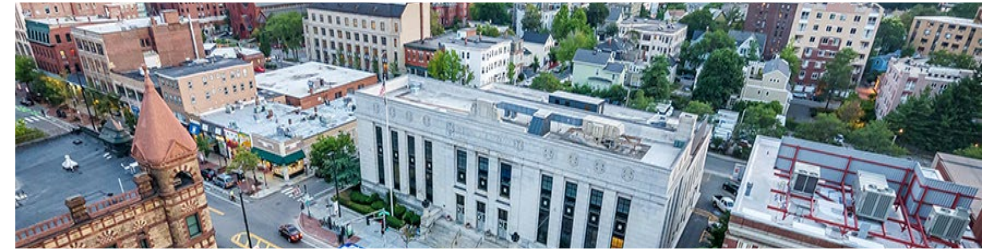
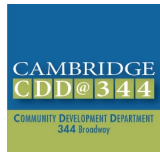
- Committee members may speak and show webcam video
- Use "Raise Hand" button to help manage discussion
 - Located at the bottom of the Participants panel (See A1-2 below) OR at the bottom of the screen (see B below)
 - *9 to Raise Hand by phone
- Please stay muted unless speaking
 - *6 to mute/unmute by phone



City of Cambridge
Community Development Department

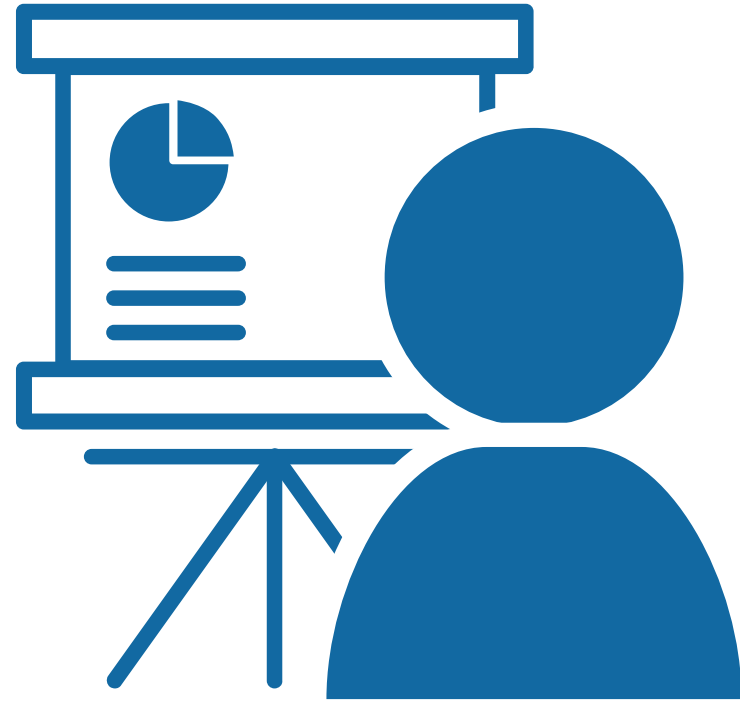
Pedestrian Committee Meeting

October 28, 2021



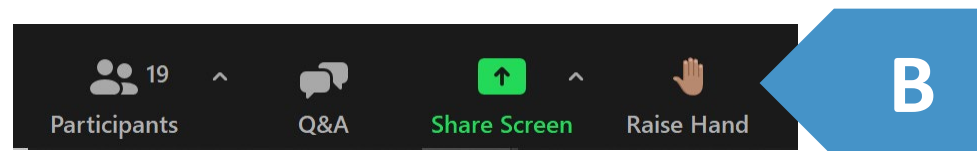
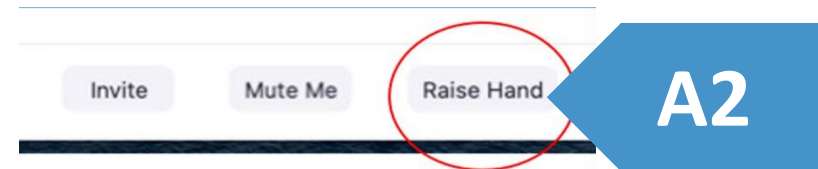
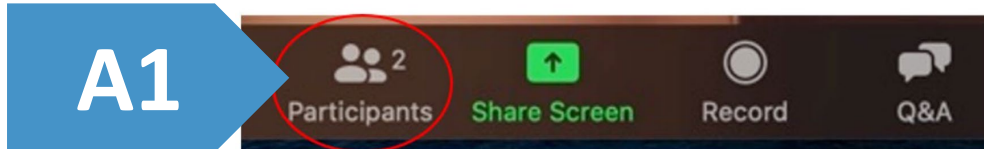
Meeting Agenda

1. Minutes & Note-taker
2. Snow!
3. Public Comment
4. Updates
 - DPW
 - TP&T
 - Other projects
5. Development Projects
6. Public Comment
7. Other Updates and Announcements



Committee Member Instructions

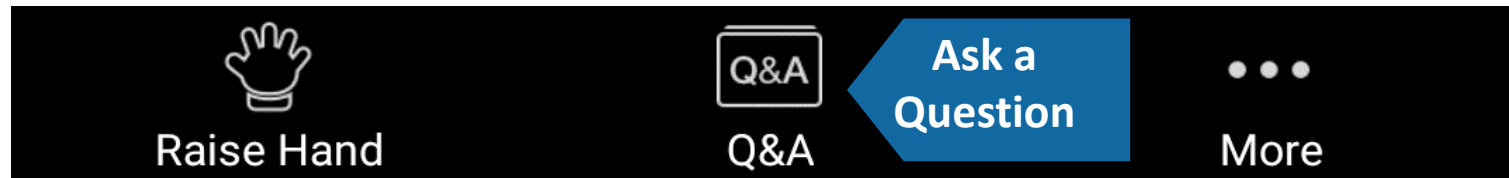
- Committee members may speak and show webcam video
- Use "Raise Hand" button to help manage discussion
 - Located at the bottom of the Participants panel (See A1-2 below) OR at the bottom of the screen (see B below)
 - *9 to Raise Hand by phone
- Please stay muted unless speaking
 - *6 to mute/unmute by phone



Public Comment Instructions

- Members of the public are muted and cannot show webcam video
- Public can write questions or ask for assistance in Q&A window at any time
 - Questions may be submitted at any time and will be addressed as time allows, during discussion/comment periods
- During the Public Comment period, use the "Raise Hand" button to signal you have a question/comment. A staff member will then enable you to unmute yourself.
 - *9 to Raise Hand by phone
 - *6 to Mute/Unmute by phone
- Please be respectful! Participants will be removed for inappropriate behavior

Bottom Panel of
Zoom Screen





Minutes



Snow!

Brian McLane (DPW)
bmclane@cambridgema.gov



City of Cambridge Winter Operations

Agenda

- ▶ Historic data
- ▶ Storm Coordination
- ▶ Safety/Accessibility
 - Parking bans
 - Public Safety/School Accessibility
 - Public Transportation
 - Pedestrian Operations
 - Bike Lanes
 - Snow Hauling
- ▶ Challenges
- ▶ Outreach
- ▶ Questions



Historical Data

Year	Snowfall (inches)	Salt Tons	Number of Parking Bans
2001	46		
2002	15		
2003	68	6027	
2004	35	4744	
*2005	87	8004	
2006	40	5180	
2007	17	3162	
2008	51	8623	
2009	66	10,000	6
2010	36	5,140	2
*2011	81	7,889	3
2012	9	1,774	0
*2013	63	5,197	1
2014	59	9,075	4
*2015	110	9,081	4
2016	27	4,756	2
2017	45	7,241	3
*2018	67	6,500	2
2019	41	5,500	2
2020	22	6,500	0
2021	46	6,500	2
AVERAGE	48	6,355	2.4



* Indicates a year where we have had at least one blizzard

A photograph of a white Cambridge Police car parked in front of a building. The car has 'CAMBRIDGE POLICE' written on its side. In the background, there is a building with a 'MoneyGram' sign. The image is partially obscured by a white and orange geometric overlay on the right side of the slide.

Storm Coordination

- ▶ Public Works
- ▶ City Managers Office
- ▶ Traffic Parking & Transportation
- ▶ Police
- ▶ School Department
- ▶ Human Services
- ▶ Water
- ▶ Fire/Emergency Management
- ▶ Electrical
- ▶ Inspectional Services
- ▶ Emergency Communications

Parking Ban

- Notification
- Tow Truck Supervision/Coordination
- Follow up
- Lifting the Ban



Snow Emergency Parking Locations



What Do We Use?

- ▶ **Salt (Solid or Liquid)**
 - ▶ Salt is endothermic and absorbs heat.
 - ▶ Meaning the salt, we use reduces the freezing temperature of water from 32 Degrees down to 4 degrees
- ▶ **Treated Salt**
 - ▶ Lowers working temperate to below zero
 - ▶ Corrosion inhibitor
- ▶ **Agricultural by-product**
 - ▶ Sugar which is a larger molecule.
 - ▶ Allows brine to stick to the road better
 - ▶ Corrosion inhibitor
 - ▶ When mixed with Brine it lowers the working temperature to below zero.

Access to Public Transportation

Pedestrian Operations

- ▶ 23 miles of City-Cleared Sidewalks/ Curb Ramps
- ▶ Abutting schools, public buildings, public open space
- ▶ City-owned parking lots and garages
- ▶ Residential exemption program

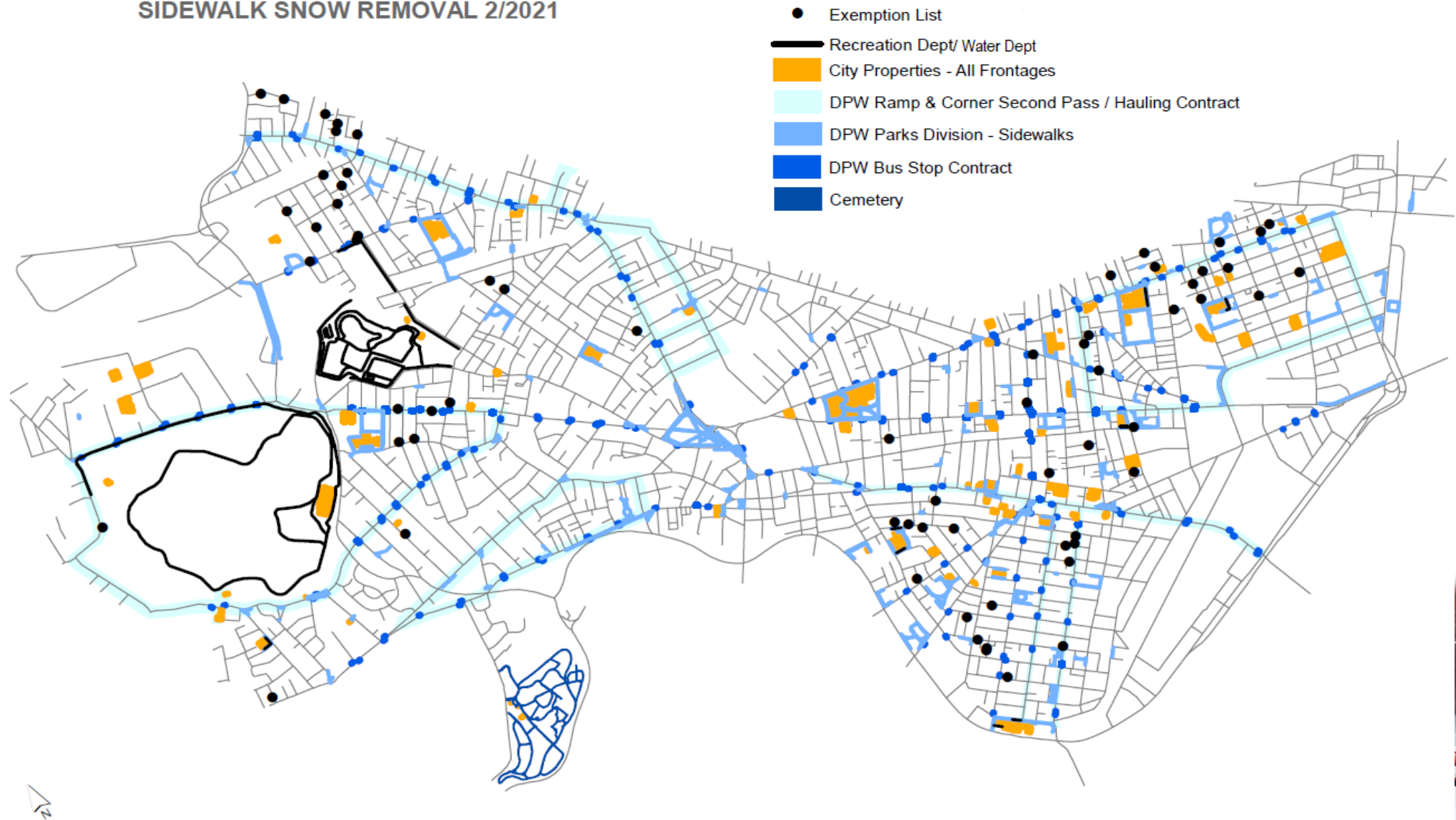


Bus Stops/Ramps

- ▶ Cambridge Street
- ▶ Massachusetts Avenue
- ▶ Concord Avenue
- ▶ Mount Auburn Street
- ▶ Western Avenue
- ▶ River Street
- ▶ Huron Avenue
- ▶ Rindge Avenue
- ▶ Broadway
- ▶ Prospect Street
- ▶ Pearl Street
- ▶ Brookline Street
- ▶ Green Street
- ▶ Granite Street
- ▶ Aberdeen Ave
- ▶ Magazine Street
- ▶ Putnam Ave - Western to Brookline
- ▶ Bigelow Street
- ▶ Inman Street
- ▶ Webster Street
- ▶ Windsor Street
- ▶ Garden Street
- ▶ Main Street
- ▶ Kirkland Street
- ▶ Quincy Street
- ▶ Columbia Street
- ▶ Hampshire Street



SIDEWALK SNOW REMOVAL 2/2021



School/Public Safety Access



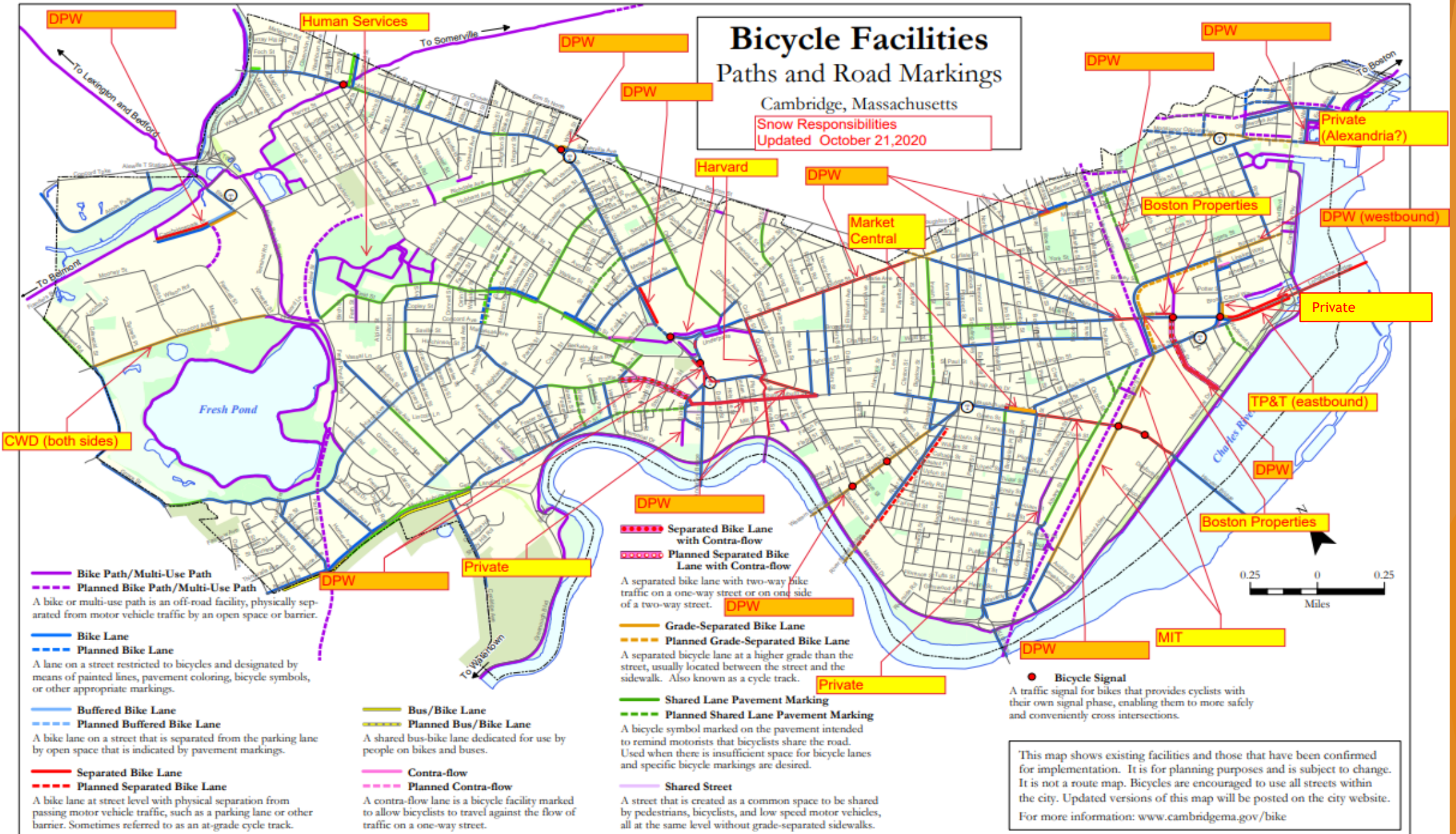
Protected and Raised Bike Lanes

- ▶ Challenges
- ▶ Timing
- ▶ Messaging
- ▶ Responsibility



Bicycle Facilities Paths and Road Markings

Cambridge, Massachusetts
Snow Responsibilities
Updated October 21, 2020



CWD (both sides)

- Bike Path/Multi-Use Path
- - - Planned Bike Path/Multi-Use Path
A bike or multi-use path is an off-road facility, physically separated from motor vehicle traffic by an open space or barrier.
- Bike Lane
- - - Planned Bike Lane
A lane on a street restricted to bicycles and designated by means of painted lines, pavement coloring, bicycle symbols, or other appropriate markings.
- Buffered Bike Lane
- - - Planned Buffered Bike Lane
A bike lane on a street that is separated from the parking lane by open space that is indicated by pavement markings.
- Separated Bike Lane
- - - Planned Separated Bike Lane
A bike lane at street level with physical separation from passing motor vehicle traffic, such as a parking lane or other barrier. Sometimes referred to as an at-grade cycle track.

- Bus/Bike Lane
- - - Planned Bus/Bike Lane
A shared bus-bike lane dedicated for use by people on bikes and buses.
- Contra-flow
- - - Planned Contra-flow
A contra-flow lane is a bicycle facility marked to allow bicyclists to travel against the flow of traffic on a one-way street.

- Separated Bike Lane with Contra-flow
- - - - Planned Separated Bike Lane with Contra-flow
A separated bike lane with two-way bike traffic on a one-way street or on one side of a two-way street.
- Grade-Separated Bike Lane
- - - Planned Grade-Separated Bike Lane
A separated bicycle lane at a higher grade than the street, usually located between the street and the sidewalk. Also known as a cycle track.
- Shared Lane Pavement Marking
- - - Planned Shared Lane Pavement Marking
A bicycle symbol marked on the pavement intended to remind motorists that bicyclists share the road. Used when there is insufficient space for bicycle lanes and specific bicycle markings are desired.
- Shared Street
A street that is created as a common space to be shared by pedestrians, bicyclists, and low speed motor vehicles, all at the same level without grade-separated sidewalks.



This map shows existing facilities and those that have been confirmed for implementation. It is for planning purposes and is subject to change. It is not a route map. Bicycles are encouraged to use all streets within the city. Updated versions of this map will be posted on the city website.
For more information: www.cambridgema.gov/bike

Bike Facilities and Snow Removal

- ▶ The number of bike facilities are increasing every year
- ▶ Each has different needs in terms of snow removal
- ▶ In some cases, these facilities are part of “quick build” projects and present challenges in terms of maintenance during snow season
- ▶ Snow removal in bike facilities is a shared responsibility between
 - ▶ DPW
 - ▶ DHSP
 - ▶ TP&T
 - ▶ Private Developments
 - ▶ Universities

Snow Hauling



BEFORE



AFTER



Historical Snow Farm Locations



Specialty Equipment -Sidewalk/Bikelanes

- Holder sidewalk tractor
- Wacker Neuson sidewalk tractor
- Multihog tractor
- Bobcat skid steer



Ticketing/Fines

Snow Season	# of Complaints Received
2016-2017	1068
2017-2018	933
2018-2019	591
2019-2020	695
2020-2021*	615
Total:	3902
* As of 2/10/21	

Snow Season	# of Citations Issued
2016-2017	546
2017-2018	166
2018-2019	210
2019-2020	326
2020-2021*	171
Total:	1419
* As of 2/10/21	

Payments made on tickets within 6 months of issuance over the past 4 years, is approximately 50%

Challenges

- Continuity of Services
- Dead Ends
- One-way Streets
- Handicap Parking
- Space savers





The newest tool in our toolbox....Brine It's not just for Turkeys!

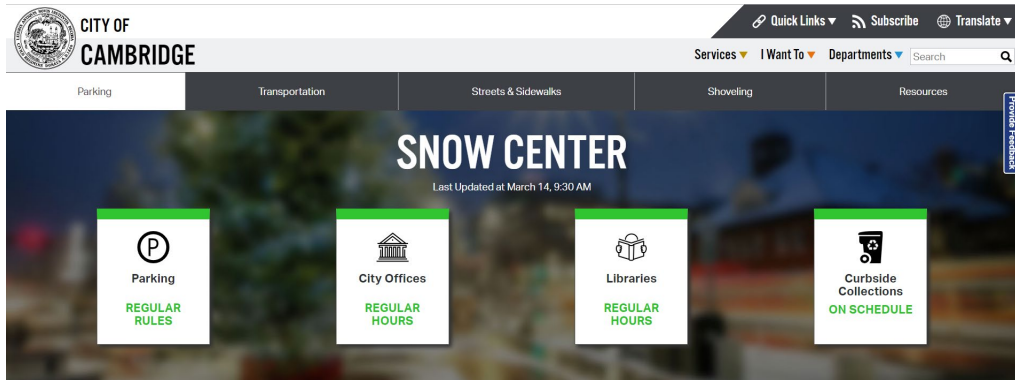
Brine Farm



Truck application



The brine solution is applied in liquid form to the roadway before anticipated snow or ice and prevents snow and ice from bonding with the street surfaces. Unlike granular salts which can bounce off roadways or get stuck on top of snow and ice, brine begins working immediately once it comes into contact with precipitation.



What can you do?

- ▶ Remove all snow and ice from your walkway
 - ▶ If you live on a corner remove snow from the crosswalk

What Should I use?

- ▶ We don't specifically endorse any product
 - ▶ BUT - when using the product use the recommended amount
 - ▶ 1 cup of road salt will cover 20 sf or 4 sidewalk panels
- ▶ What we don't recommend
 - ▶ Sand
 - ▶ Clogs our drains and rivers
 - ▶ Can actually make surfaces more dangerous.



Questions?



DPW Updates

Brian McLane (DPW)



TP&T Updates

Dana Benjamin (TP&T)

dbenjamin@cambridgema.gov

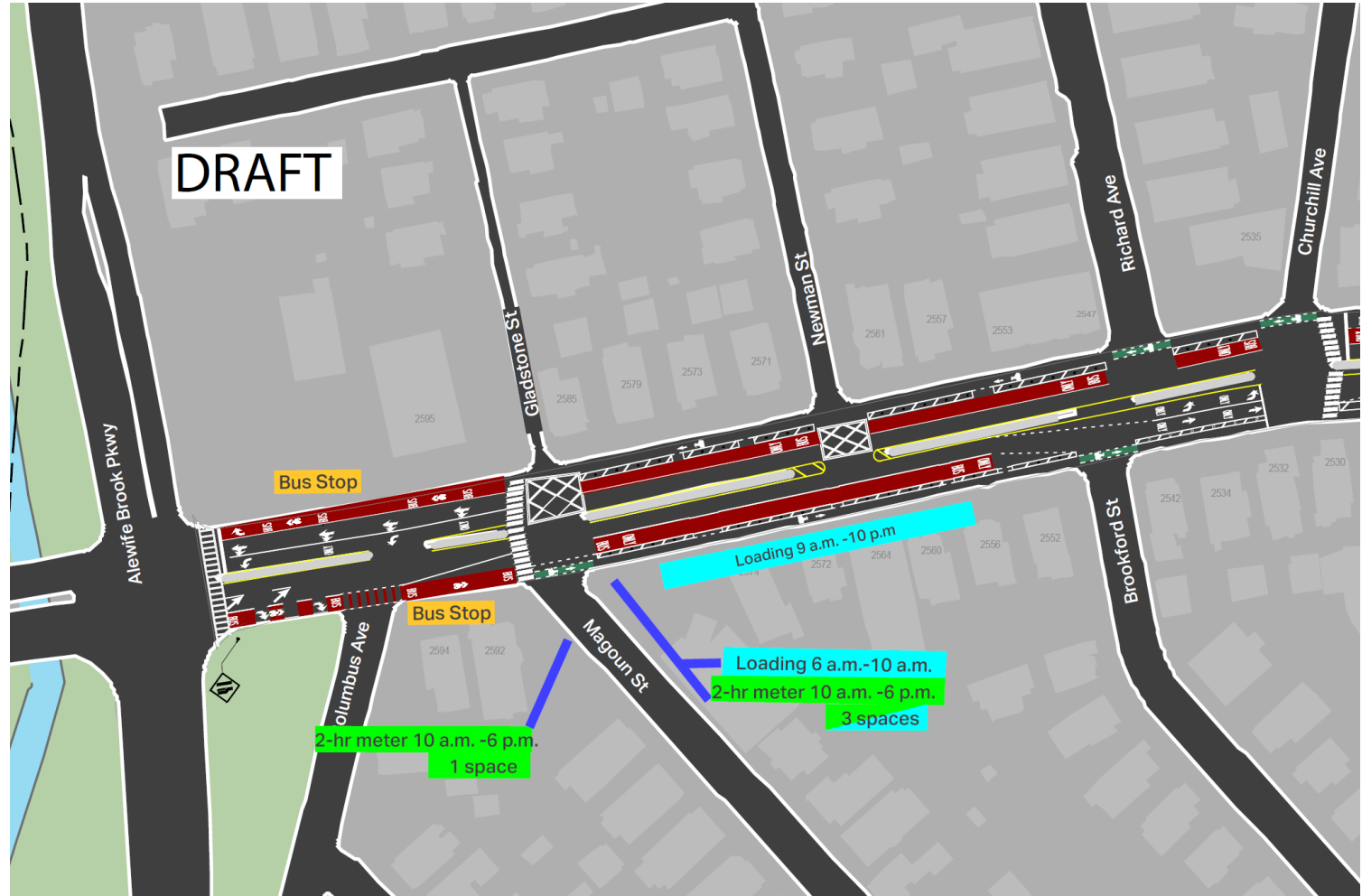


TP&T Updates

- South Mass Ave Bus Lane Project

TP&T Updates

- Mass Ave – Dudley Street to Alewife brook Parkway Quick Build project



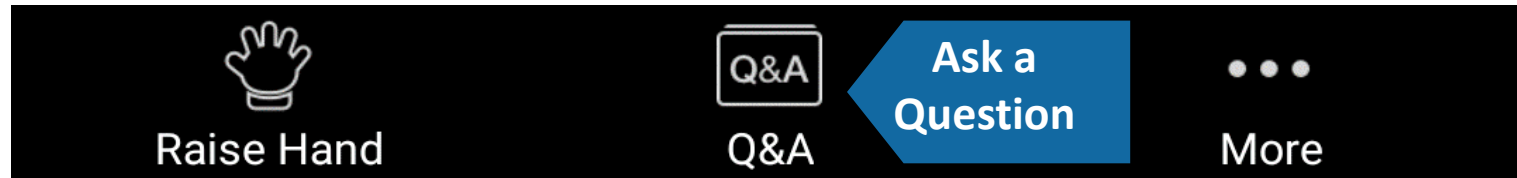


Public comment

Public Comment Instructions

- Use the "Raise Hand" button to signal you have a question/comment. A staff member will then enable you to unmute yourself.
 - *9 to Raise Hand by phone
 - *6 to Mute/Unmute by phone
- Questions can also be submitted using the Q&A button.

Bottom Panel of
Zoom Screen





Select Upcoming Meetings and Events



Other Announcements



Thank You