June 21, 2023

City of Cambridge Community Development Department

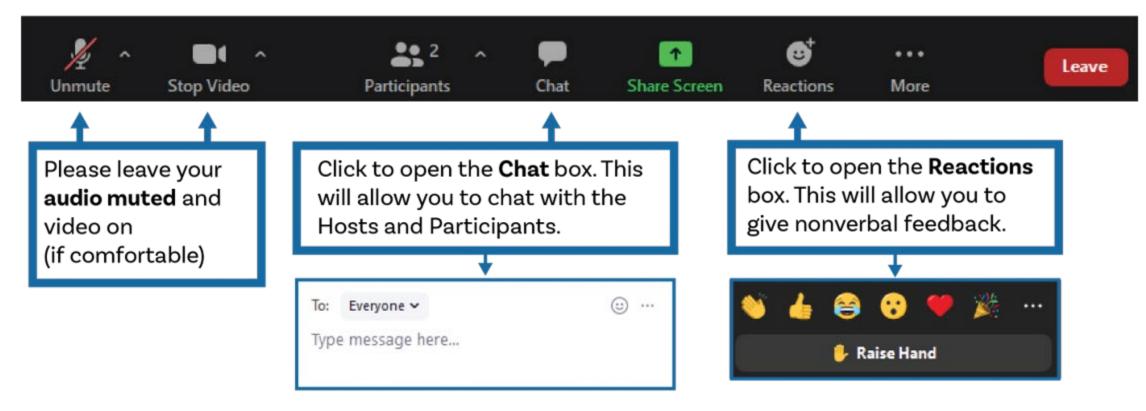
Feasibility Study and Design of a Pedestrian & Bicycle Crossing of the Fitchburg MBTA Rail Line in North Cambridge



CambridgeMA.gov/FitchburgCrossing



Public Input on Zoom



For Zoom-related questions reach out to Charlie Creagh at ccreagh@cambridgema.gov



- 309-205-3325
 - Meeting ID: 872 6793 6664



Meeting Purpose & Process

Purpose

- Purpose of the meeting is to discuss the scope of the feasibility study and review the three underpass (tunnel) and three overpass (bridge) options
 Process
 - Discuss the need for a bicycle and pedestrian crossing
 - Explain the issues and challenges associated with the different options
 - Format: A digital presentation with a slide deck and time for questions and answers

Meeting Outcome

Outcome

- Identify a preferred over or under crossing option to move to design
- Get feedback on crossing concepts for preferred option

Agenda

Welcome!

- 1. Schedule and Goals
- 2. Background, Regional Context, Study Area
- 3. Underpass & Overpass Options
- 4. **Opportunities & Challenges**
- 5. Next Steps & Q and A



Schedule

Schedule

- Fall 2022: Review property and technical issues
- Spring 2023: Develop crossing options
- Spring-Summer 2023: Public
 engagement and complete feasibility
 study

- Fall 2023: Begin conceptual design on preferred option
 - Utilize \$600k ARPA funds
- 2023-2024: Continue public engagement and work with stakeholders on design

Background & Goals

Goals of the crossing feasibility study include:

- Create a convenient, comfortable, safe and accessible crossing between Rindge Avenue area and Danehy Park area
- Improve resident connections to green spaces and retail offerings



Regional Context

The next slide has a map showing the important path connections in the region

- Watertown-Cambridge Greenway
- Danehy-New Street Path (in design)
- Linear Park
- Minuteman Bikeway
- Alewife Greenway paths



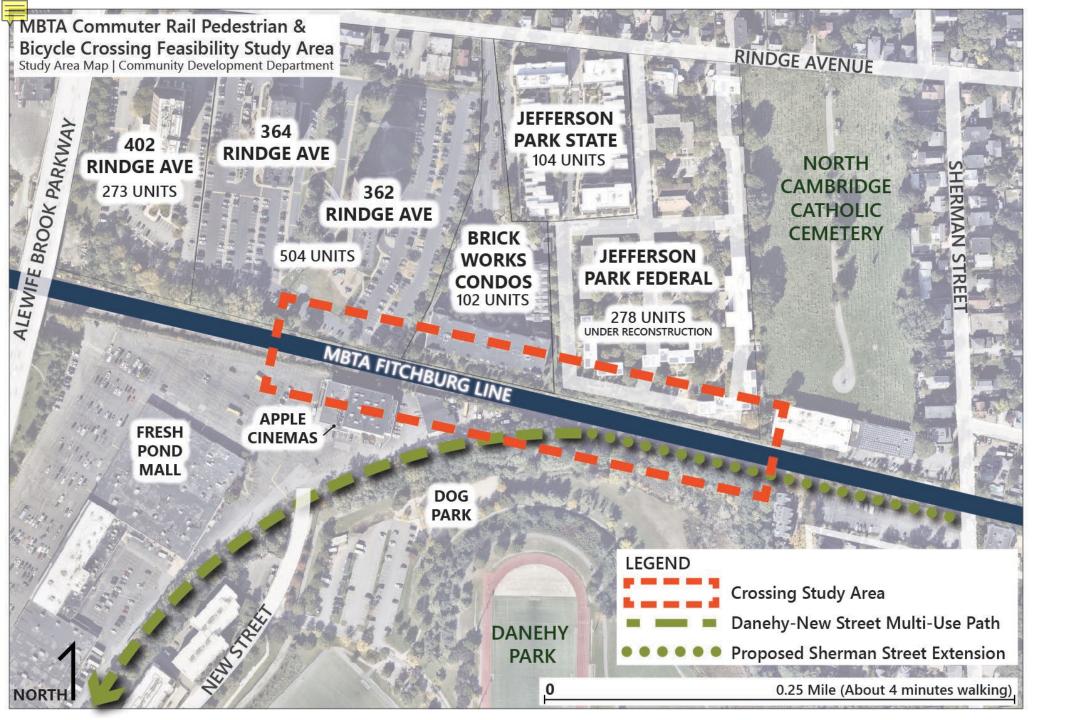


Study Area

The study area in North Cambridge/Alewife area is between many destinations

- Rindge Avenue
- Sherman Street
- Danehy Park, Fresh Pond Mall
- Alewife Brook Parkway





Opportunities: City-Owned Property

Danehy-New Street Multi-Use Path

- Opportunity to develop a crossing on new city-owned property bought in 2016
 - Does not involved buried landfill issue
 - Harder to develop a crossing on
 - private property

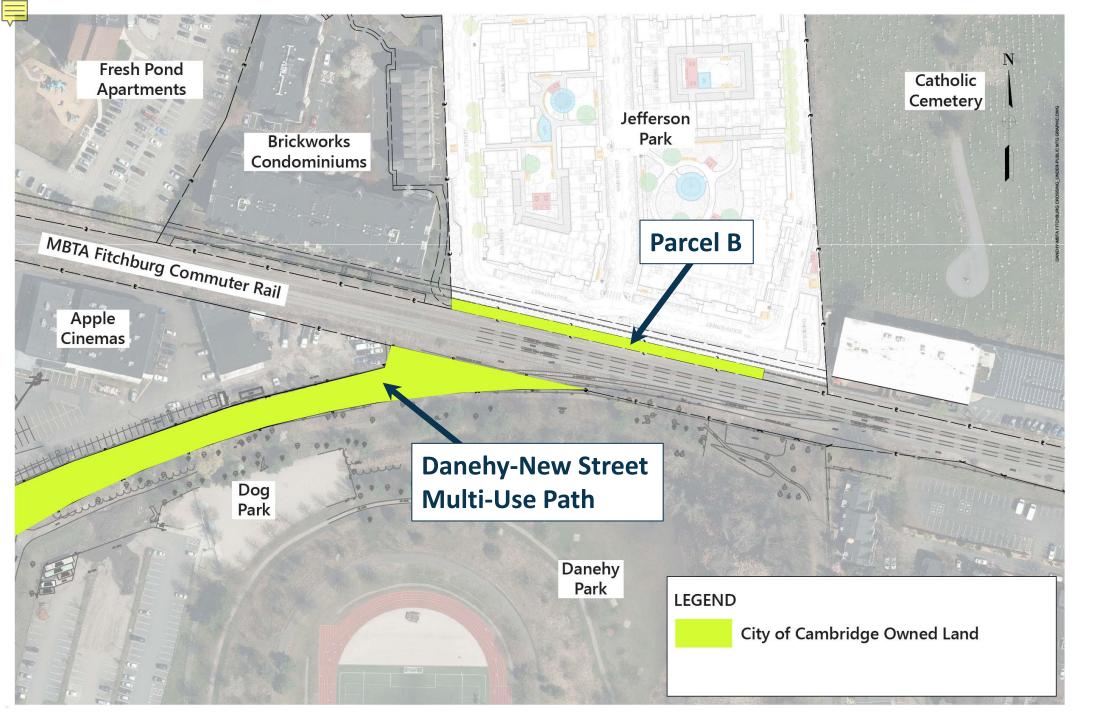
Parcel B

• Given to City when Brickworks lot

was re-developed

• Located behind Jefferson Park

Federal



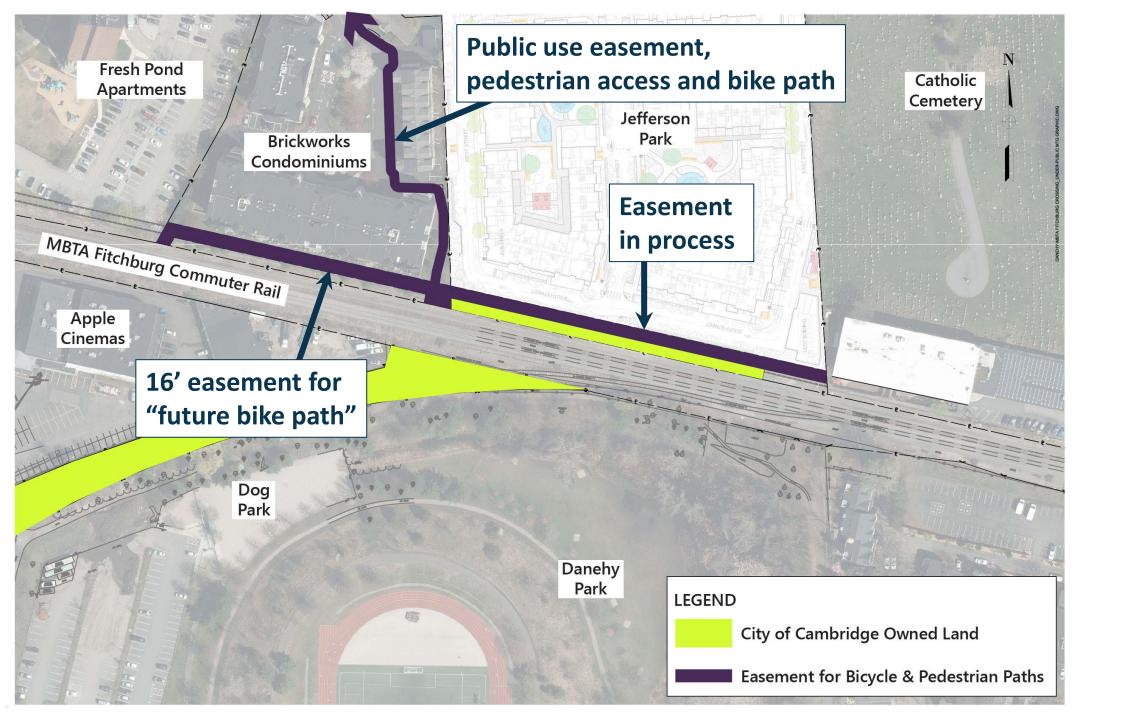
Opportunities: Easements for Bicycle & Pedestrian Paths

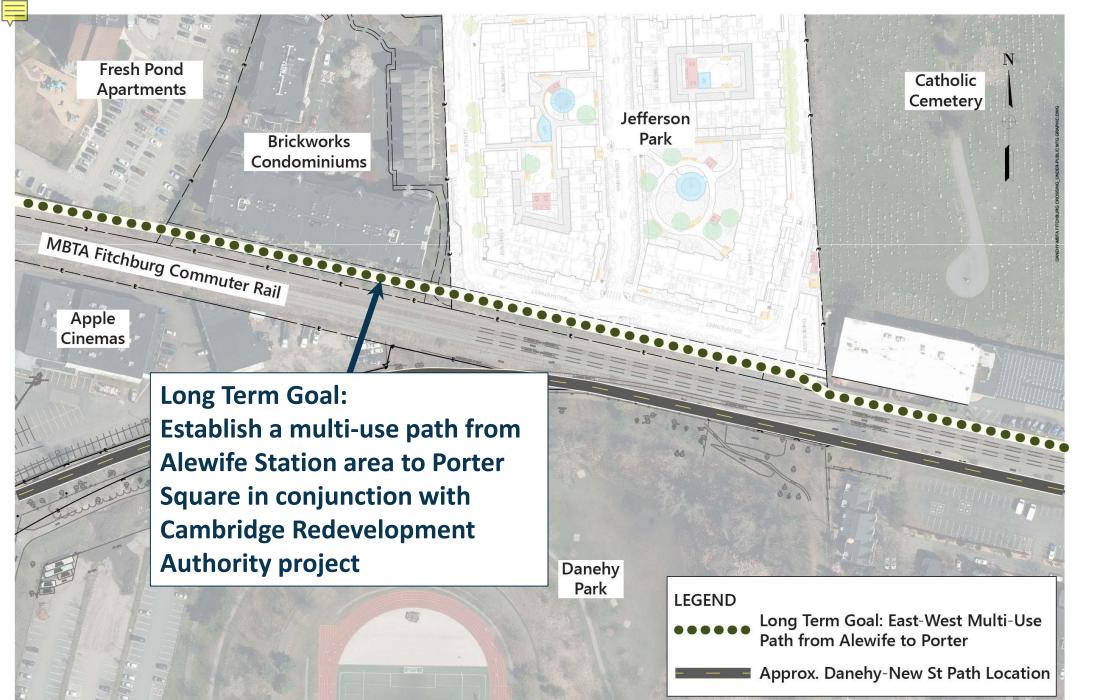
Easement through Brickworks

- Surface easement for walking and biking from Rindge Ave to railroad right-of-way
- 16' easement along rear of property "for future bike path"

Easement from Jefferson Park

- In Process Cambridge Housing Authority intends to give City 16' path easement along rear
- Located behind Jefferson Park
 Federal, which is currently under redevelopment





Clarifying Questions

Brief break to answer a few clarifying questions on materials presented so far.

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Underpass Study Options

The following slides will show three options that were evaluated for feasibility of constructing an underpass beneath the Fitchburg rail tracks

Historic Underpass

• We are not able to re-establish the

historic haul tunnel that used to be

in the Study Area

616 ft

North end of tunnel is buried beneath Brickworks residential building today Aerial Image from 1947

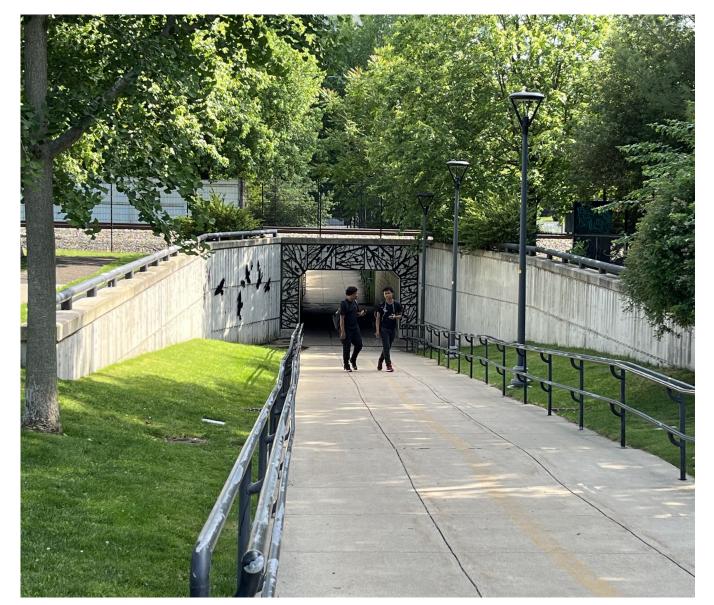
- Old haul tunnel
- Filled in and capped before Danehy Park was completed

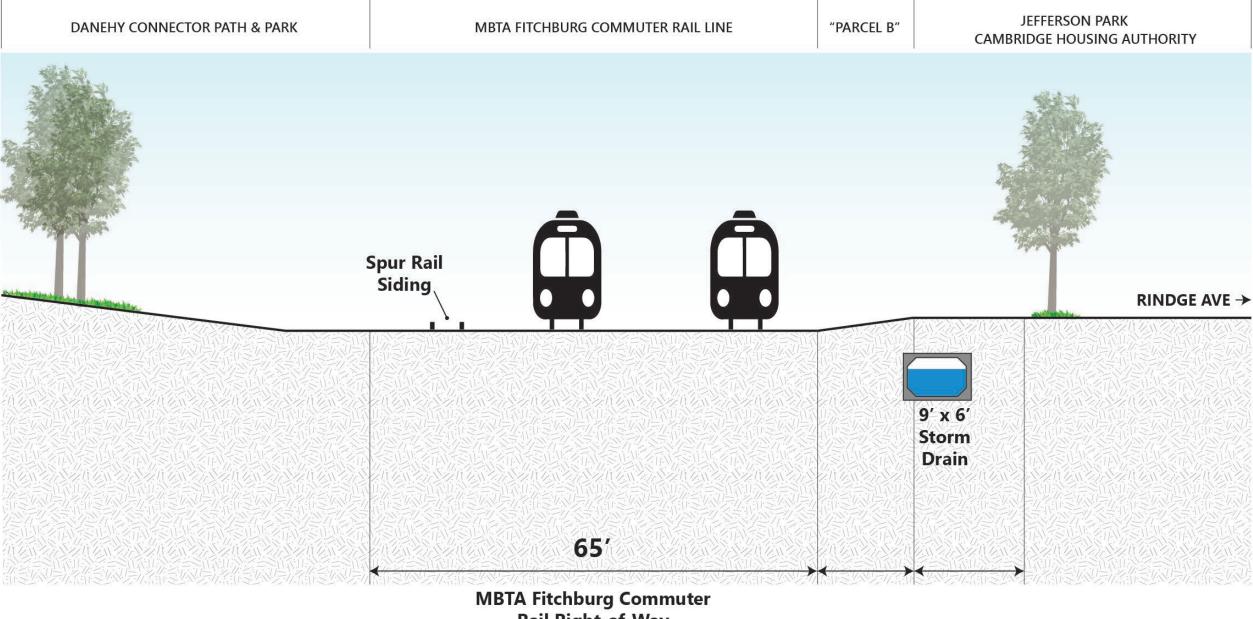
Tunnel opening between Fitchburg Line and Watertown Branch

Underpass Goals

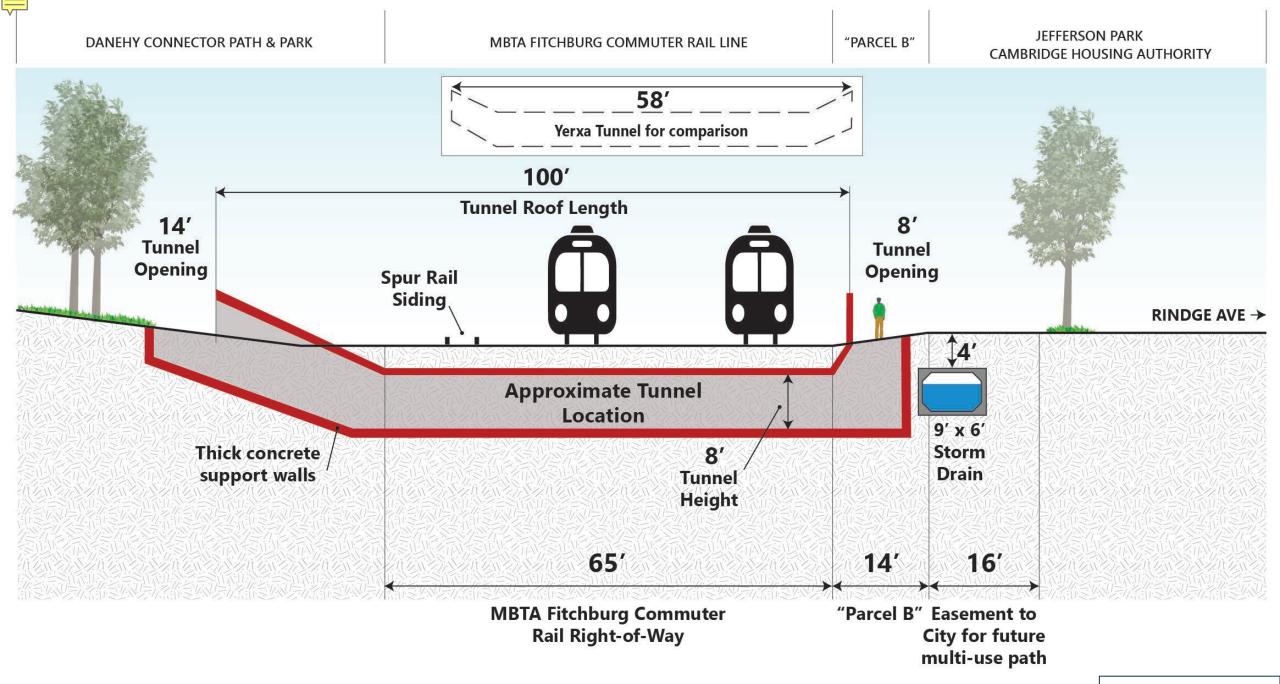
Could we replicate Yerxa Road underpass?

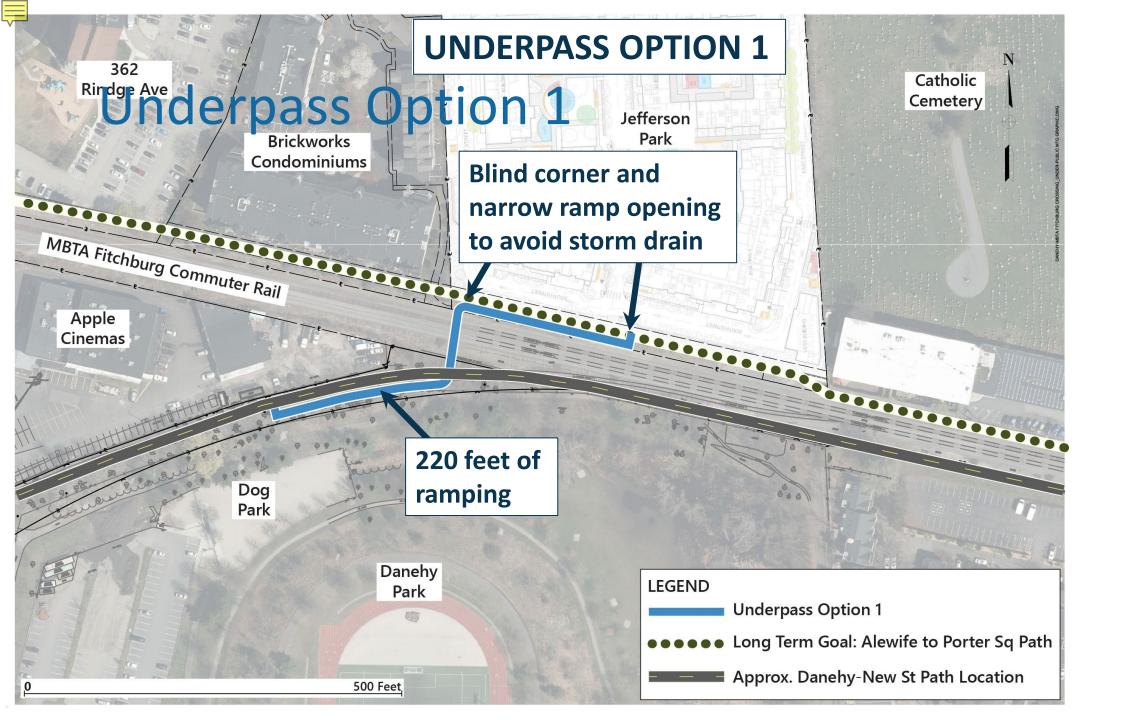
- Well-used underpass
- Wide with clear sightlines
- Many engineering and property constraints at Danehy Park area that didn't exist at Yerxa Road

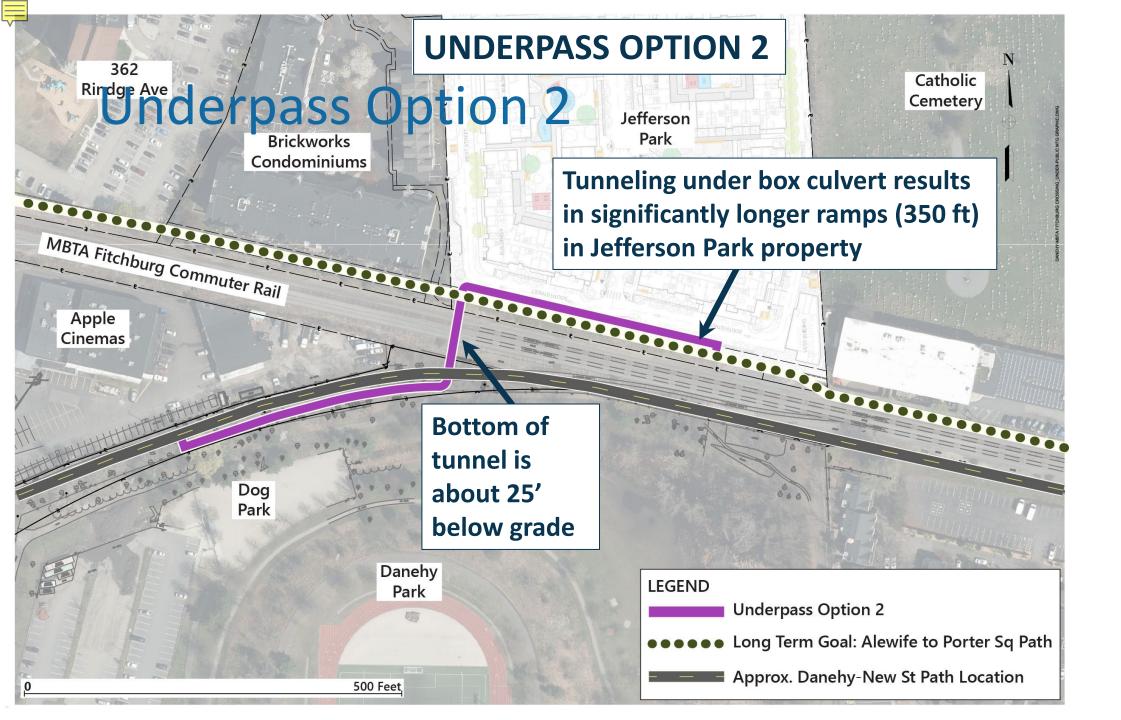


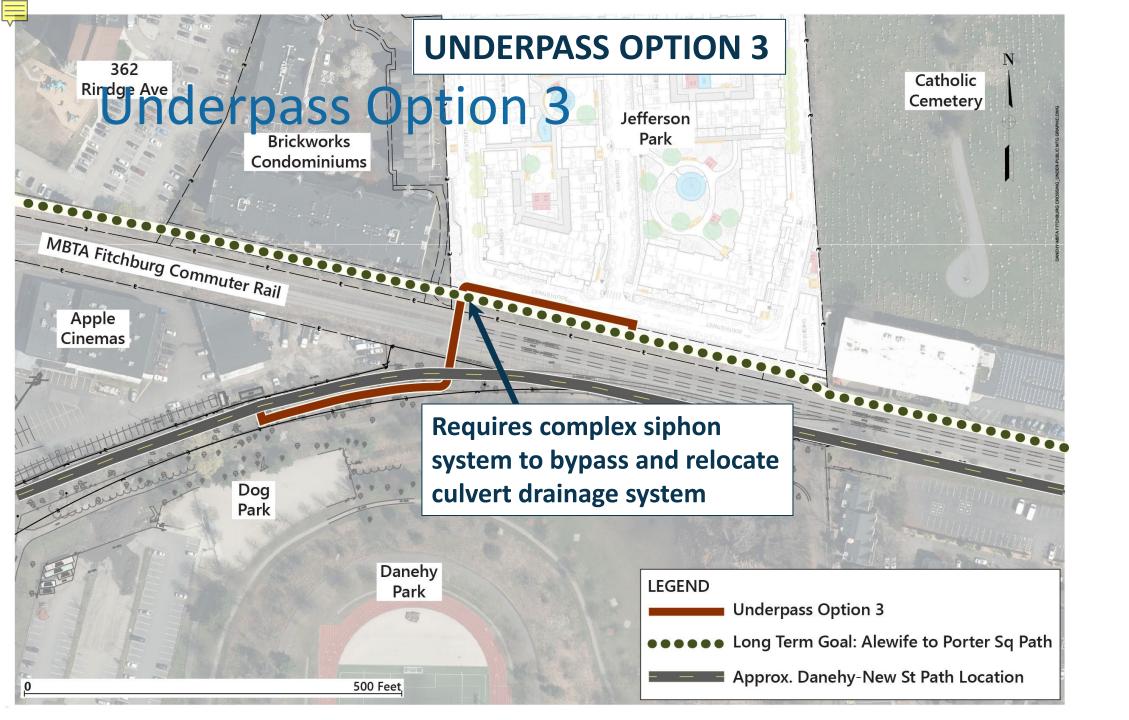


Rail Right-of-Way









Underpass Challenges

There are major challenges to establishing a crossing under the MBTA Fitchburg tracks

Former Landfill

Danehy Park built

atop former city dump

- Methane issues
- Requires permanent pump station
- Difficult to excavate, permitting

Storm Drain (Box Culvert)

- 9' x 6' storm drain on north side
- Underneath storm drain, impacts to Jefferson Park redevelopment plans
- Avoid storm drain, results in a narrow tunnel opening

Sight Line Constraints

- Wider crossing (more tracks)
 than at Yerxa Underpass
 location
- No straight sight line through the tunnel
- 220' feet of ramping with curves at the tunnel entrance

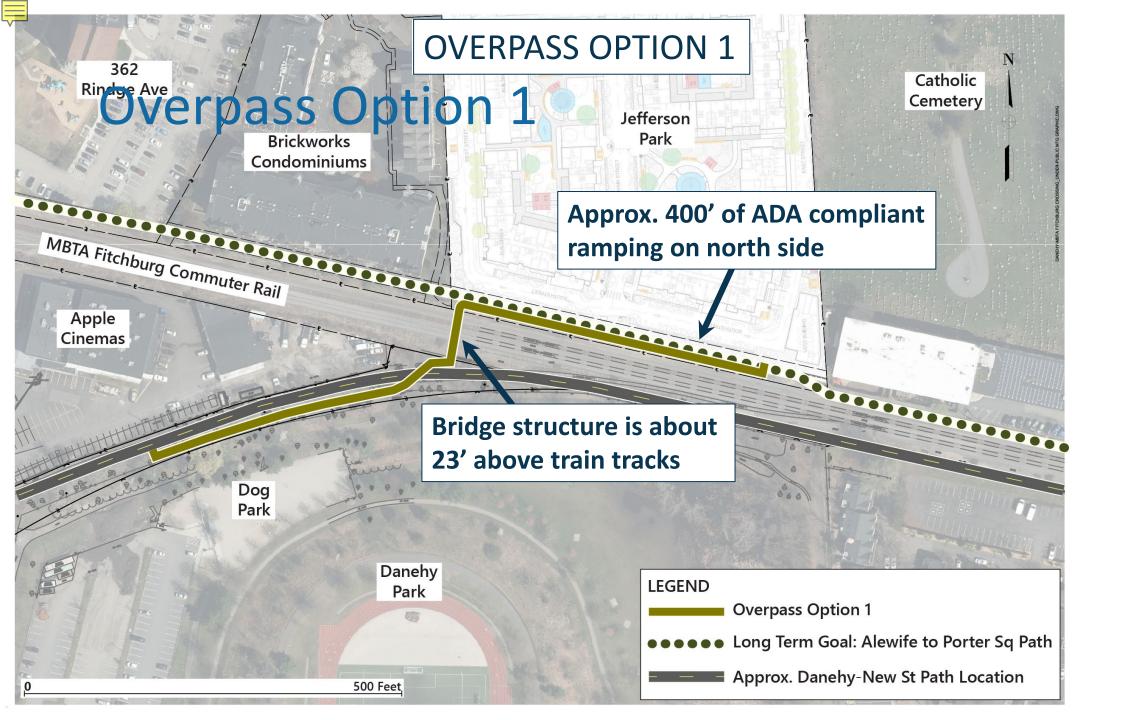
Overpass Study Options

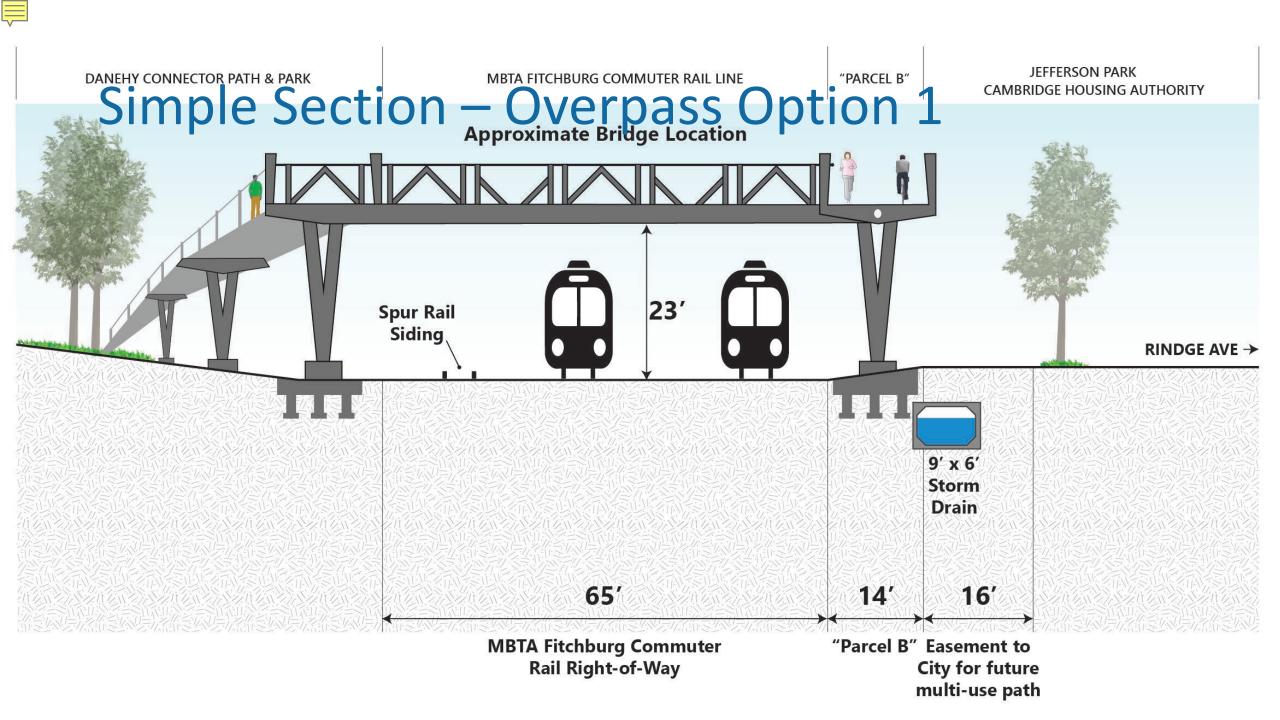
The following slides will show three options that were evaluated for feasibility of constructing a bridge over the Fitchburg rail tracks

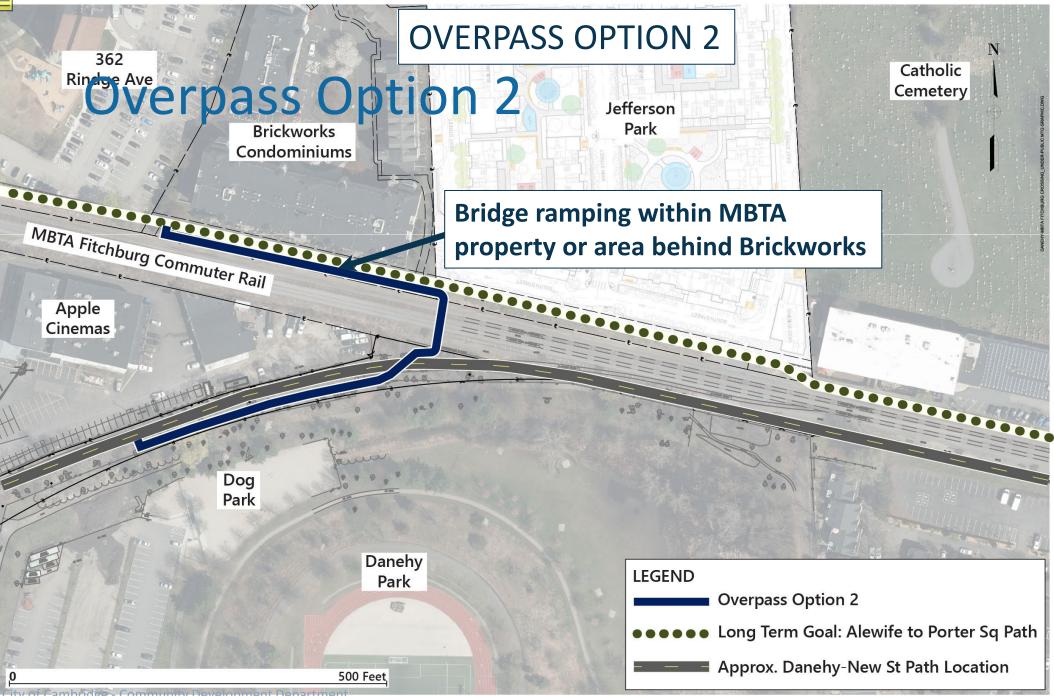




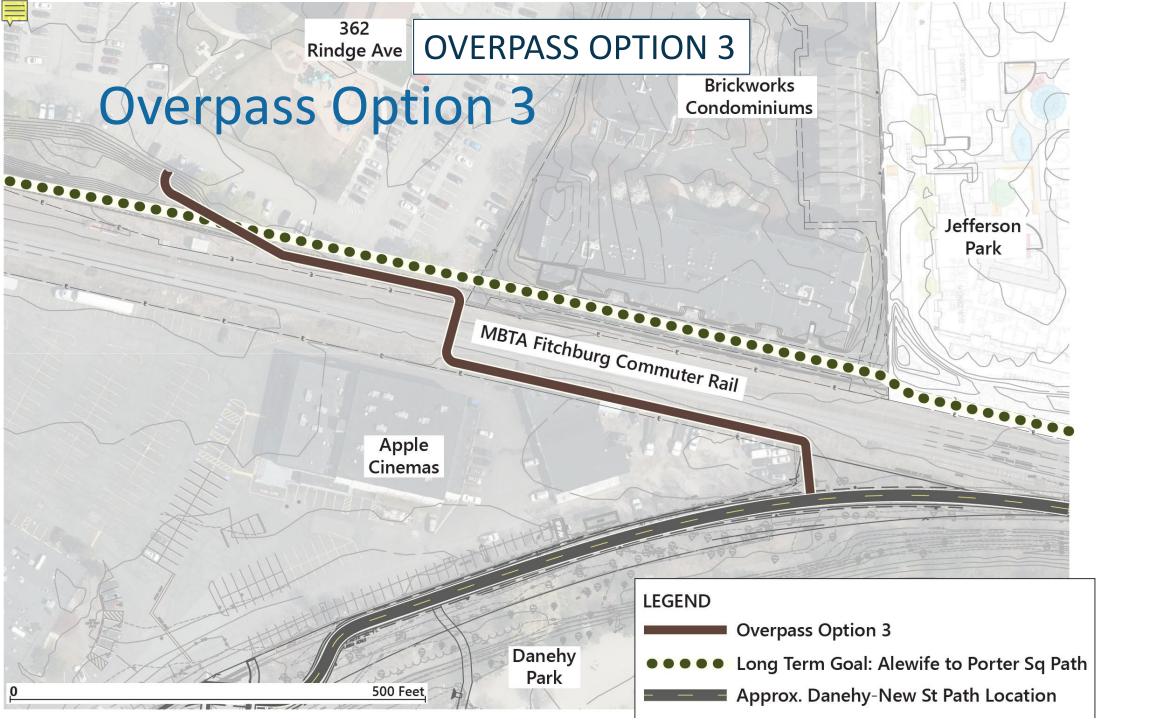
Example images showing pedestrian bridges elsewhere







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Overpass Challenges & Opportunities

There are challenges and opportunities to establishing a crossing over the MBTA Fitchburg tracks

Option One

- Ramping lands on City-owned property
- Cambridge Housing Authority easement for at-grade path and possible ramping
- Buffer space between ramping and residential buildings

Option Two

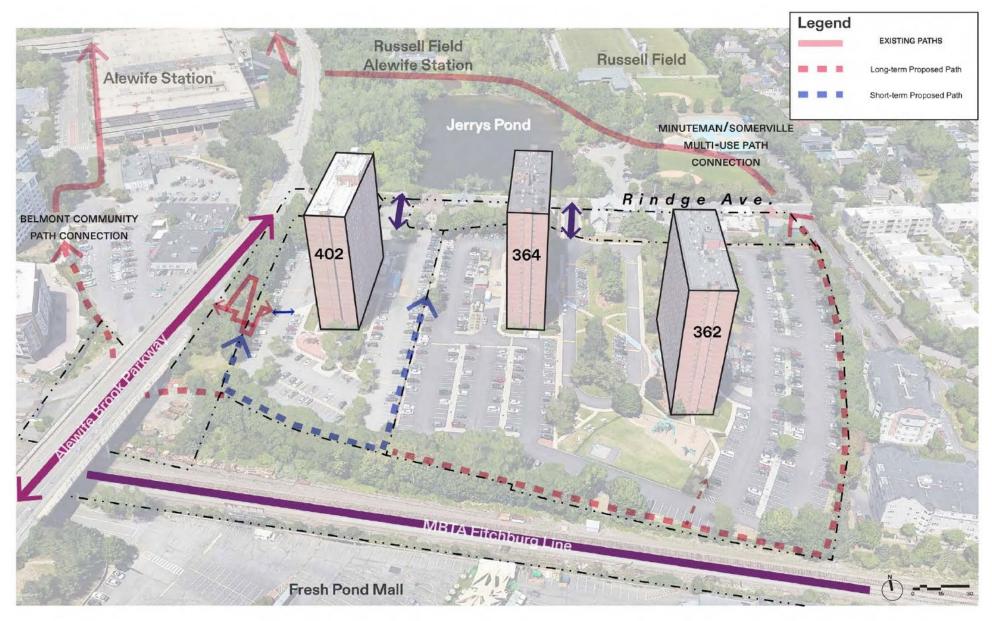
- Property constraints (MBTA and Brickworks) for bridge landing on north side
- Less buffer space and possible visual impact to existing Brickworks buildings

Option Three

- Relies more heavily on
 MBTA and possible
 impacts to autobody land
- Close coordination and permissions needed from 362 Rindge Ave property owner

CONCEPTUAL PROPOSED PATH

https://www.cambridgeredevelopment.org/rindgeconnectivity



RINDGE MULTI-USE PATH CAMBRIDGE REDEVELOPMENT AUTHORITY | JUNE 2023



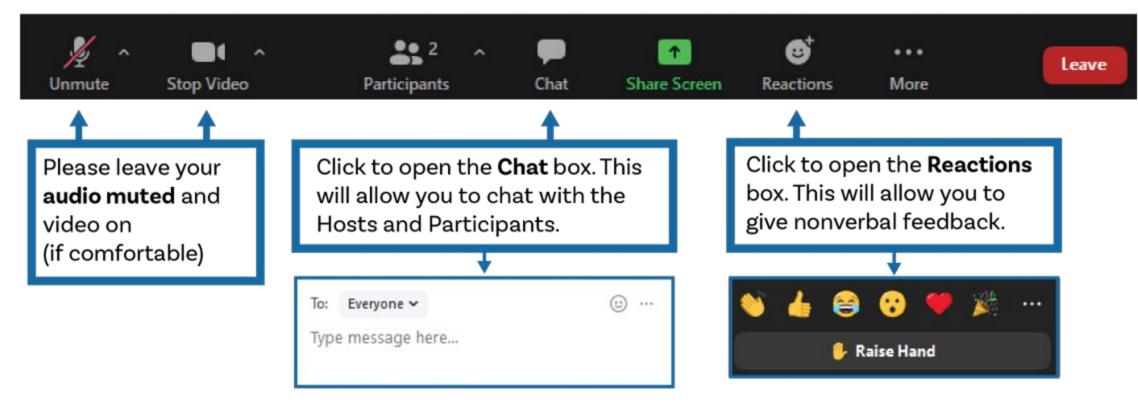
Next Steps

- Review input from public and stakeholders
- Finalize feasibility study and recommend a preferred crossing option
- Work to identify design team for conceptual design of crossing
- Coordinate with CRA on Rindge Commons path project
- Continue to review opportunities for funding for final design and construction



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We are recording!

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Thank You

