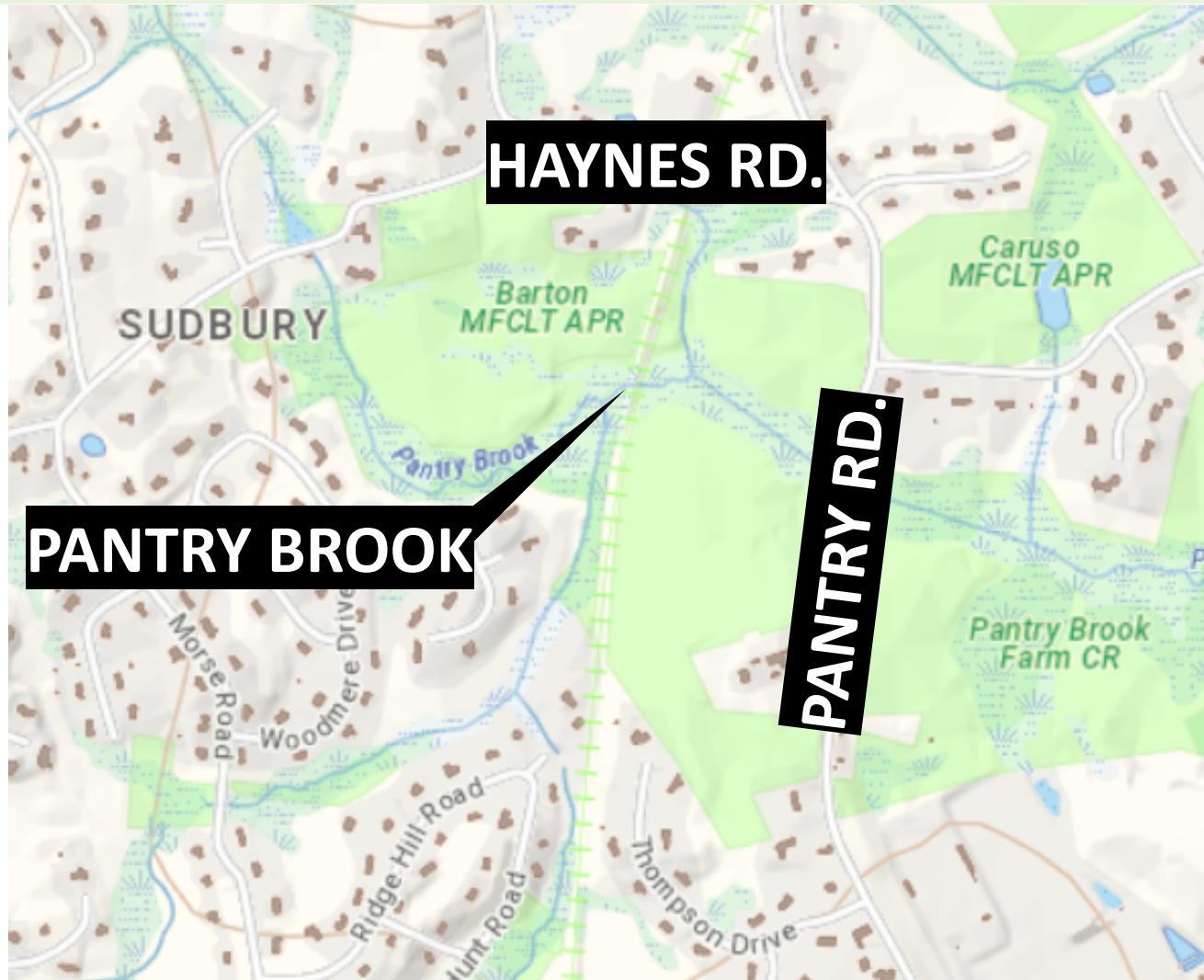


Pantry Brook - Location



Existing Conditions - Pantry Brook



EXISTING PANTRY BROOK BRIDGE DECK

Existing Conditions - Pantry Brook

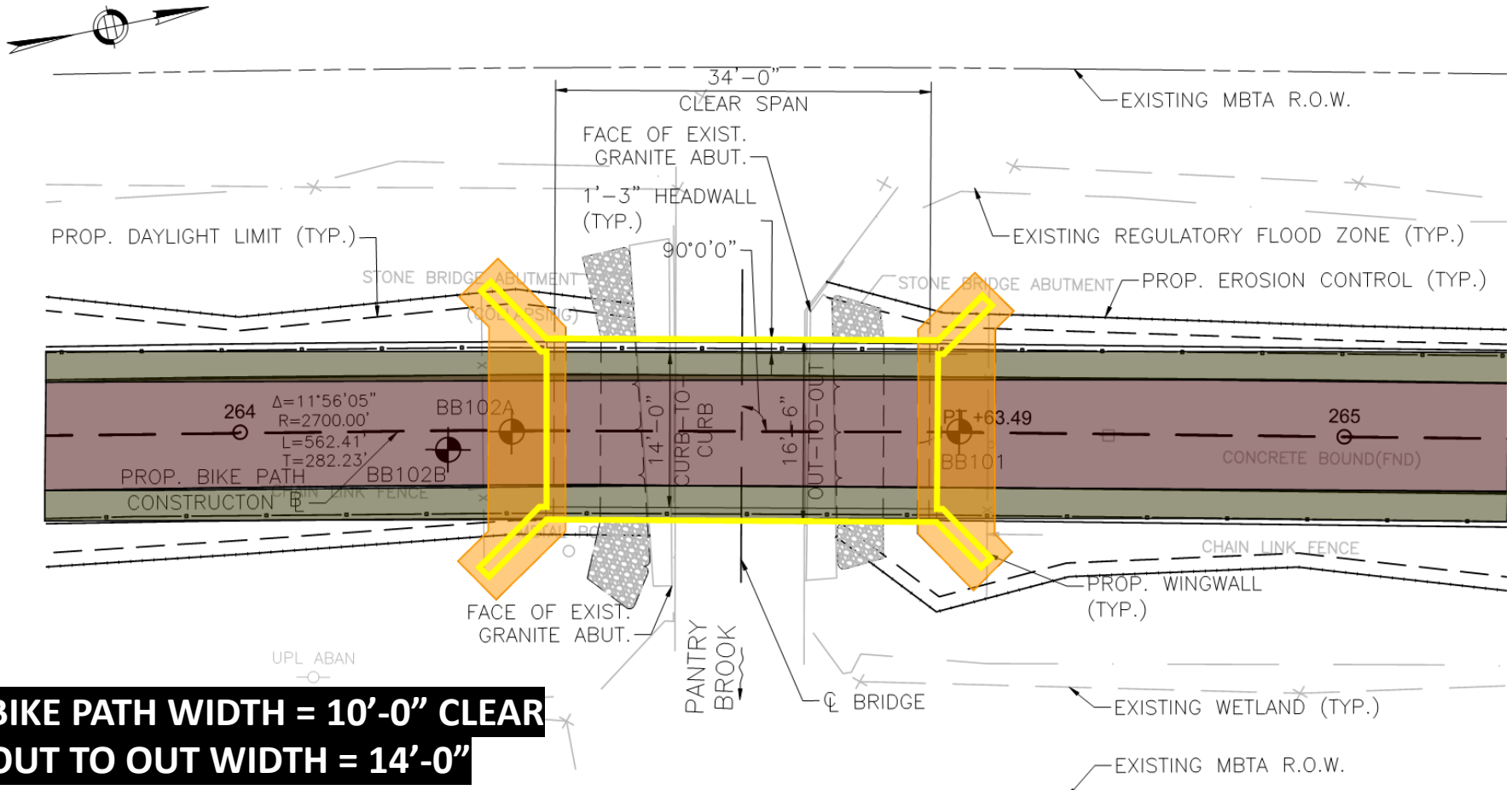


EXISTING PANTRY SOUTH ABUTMENT

Proposed Design - Pantry Brook

- Full bridge replacement of collapsed bridge
- Proposed concrete arch
- Precast panels allow for easier constructability
- More durable than other arch types
- Ability for Town to choose facade

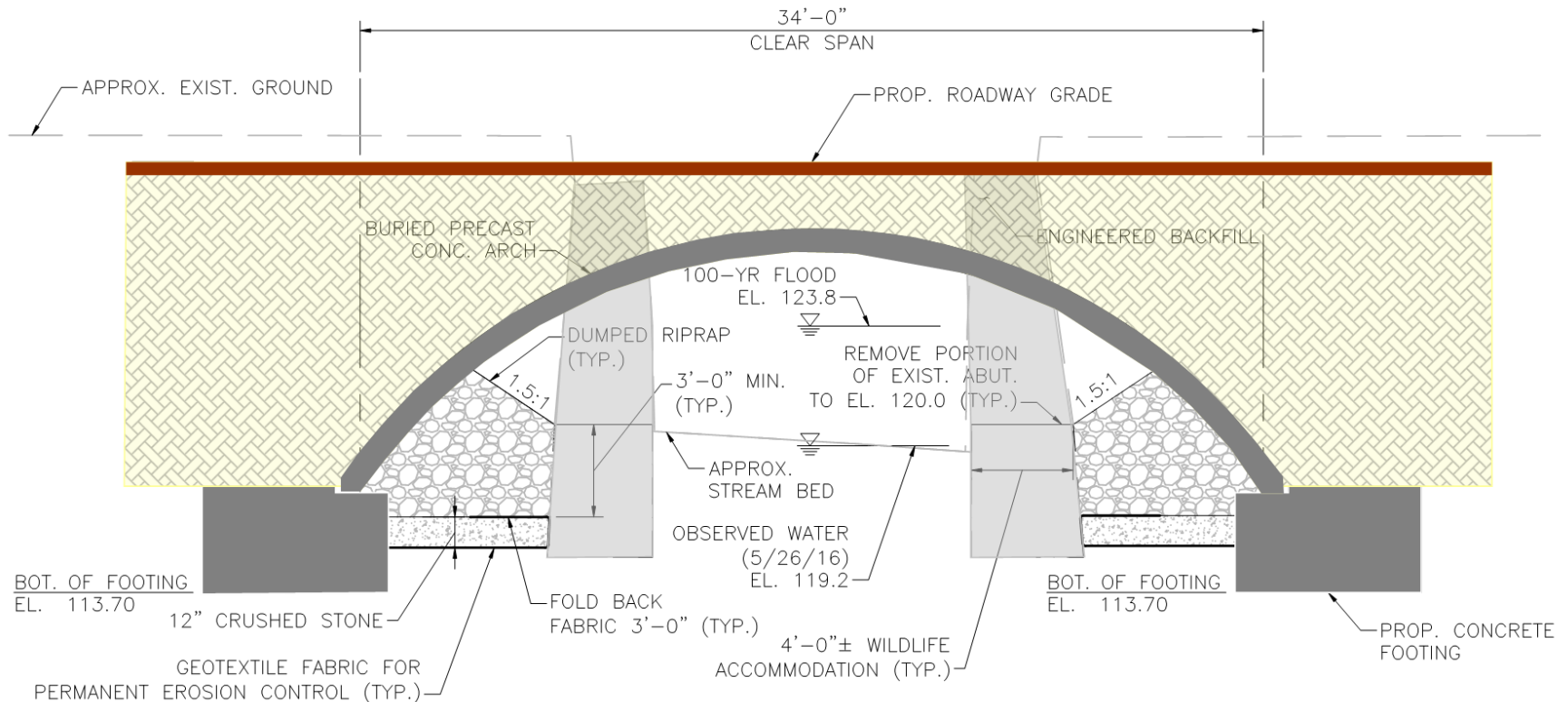
Proposed Design - Pantry Brook



BIKE PATH WIDTH = 10'-0" CLEAR
OUT TO OUT WIDTH = 14'-0"

BRIDGE PLAN

Proposed Design - Pantry Brook



PROPOSED CONCRETE ARCH

Proposed Design - Pantry Brook



FACADE SAMPLE

Proposed Design - Pantry Brook



FACADE SAMPLE

Commitment to Context Sensitivity



Jurisdictional resource areas

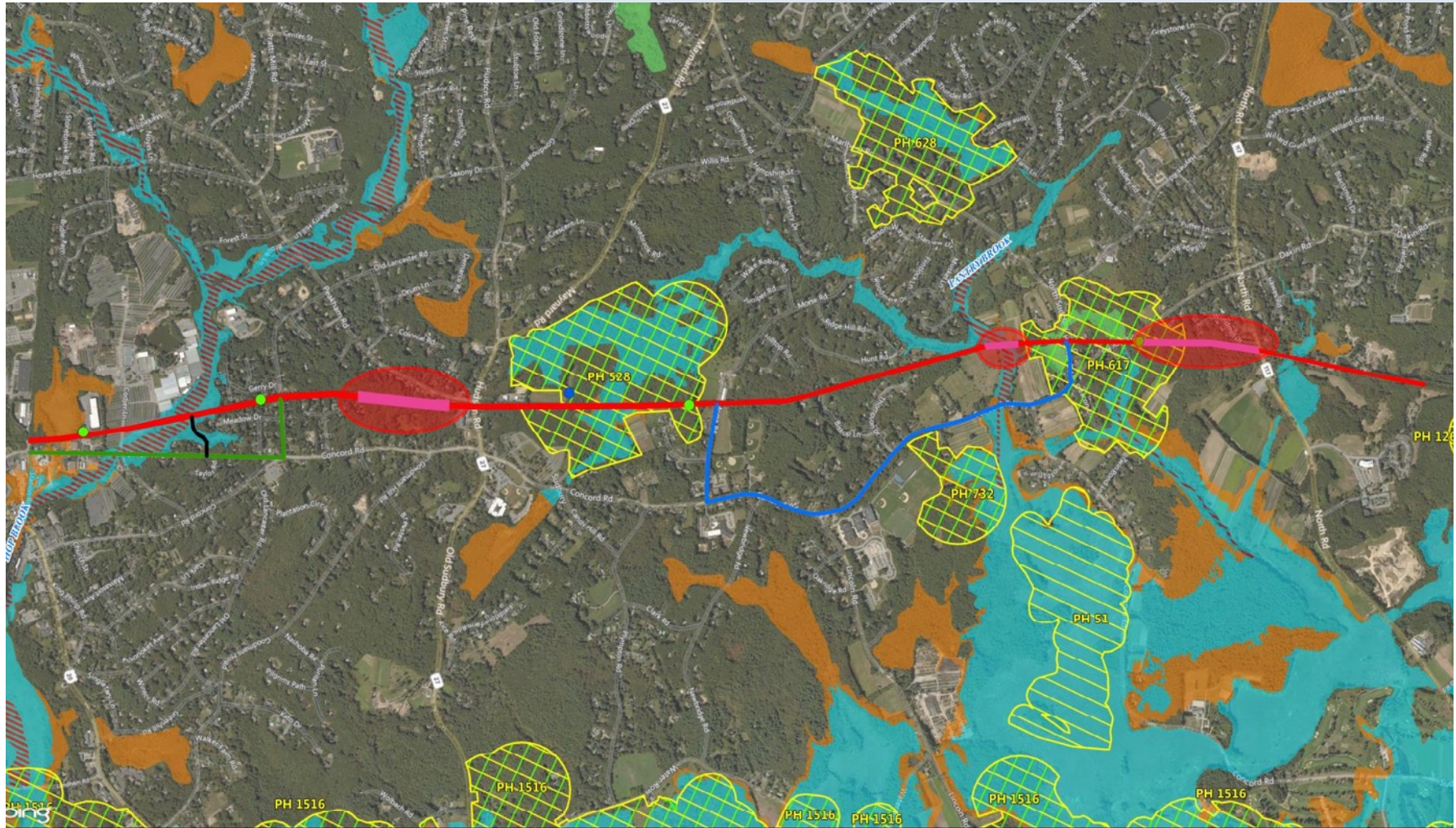
- bordering vegetated wetland
- riverfront area
- banks
- bordering land subject to flooding
- buffer to vernal pools
- isolated wetlands
- regulatory floodways

Environmental Permitting



- Completed
 - ORAD
 - Vernal Pool Study
 - Wild life Habitat Study
- On-going coordination
 - MEPA/NEPA
 - Section 106
 - Chapter 91 license
 - Notice of Intent/Order of Conditions
 - US ACOE PCN pursuant to Section 404
 - FEMA no-rise analysis

Challenge Areas



0 1250 2500 5000 Feet

- Project Location
- Certified Vernal Pool*
- Potential Vernal Pool*
- Alternate Route 1
- Alternate Route 2
- Alternate Route 3
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- Regulatory Floodway
- 100-year Floodplain, with BFE
- 100-year Floodplain, no BFE
- 500-year Floodplain
- Challenge Areas

Bruce Freeman Rail Trail | Sudbury, Massachusetts

Figure 1 - Alternative Routes & Environmental Constraints

Source Info: Bing Maps, NHESP, FEMA, VHB

Design Considerations



- Boardwalk
- Retaining Walls
- Reduced width – 10 foot paved with 1 ft shoulders

Environmental Permitting

MassDOT Order of Resource Area Determination (ORAD) Amendment Request

- Not requesting any changes to resource area boundaries/flag locations from ORAD in 2016
- Intended to clarify jurisdictional status of wetland resource areas under Sudbury Bylaw vs. WPA to proceed accurately with permitting (i.e. Notice of Intent application to Conservation Commission), as MassDOT is exempt from review under local bylaws.
- Classify jurisdictional WPA streams as intermittent or perennial in accordance with WPA
- Confirm vernal pool investigation findings

Environmental Permitting

Elevated Boardwalk Investigation

- Spring 2020 MassDOT identified concerns with environmental impact and cost of the boardwalk
 - Significant amount of pier excavation & potential disposal of railroad ballast
 - Sediment & erosion control during pier excavation
 - Noise: short term during construction; long-term noise by bikes on boards
 - ~\$3 million construction cost; long-term maintenance cost
- Re-classification of the wetlands at the proposed boardwalk
- At grade trail alternative is being considered.



Next Steps/Meeting

- Solicit input from public
- Progress to next Design Stages
- Public outreach
- Environmental Permitting –2021
- Secure the Right of Way -Fall 2021

Project Schedule

**25% Design
Submittal
Fall 2017 &
Fall 2019**

**75% & 100% Design
Submittal
Spring, 2021
Fall, 2021**

**Construction
Starts
Summer, 2022**

**Design Public
Hearing
July 2020**

**Project Advertised
for Construction
December 2021**

Contact Information



- Handout is available on MassDOT website:
 - <https://www.mass.gov/doc/massdot-hearing-handout-sudbury-concord-071620/download>
- Comments can be sent to MassDOT:
 - Mail-in comment sheet from handout
 - Email: Patricia A. Leavenworth, PE;
Dot.feedback.highway@state.ma.us

Be sure to include the MassDOT Project File No. 608164, Bruce Freeman Rail Trail – Sudbury & Concord



Thank You

Bruce Freeman Rail Trail
Sudbury & Concord | Project File No. 608184

25% DESIGN PUBLIC HEARING

July 16, 2020

Contact Information



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