

Quinobequin Road and Trail Improvements Phase 1: Concept Design

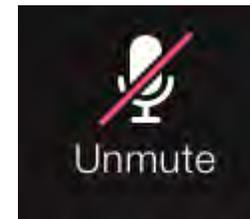
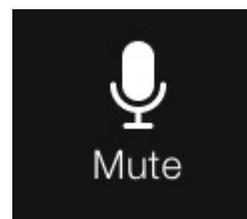
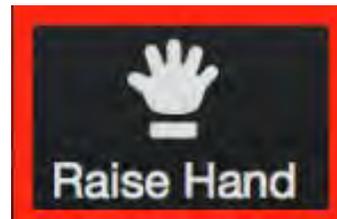
Stakeholder Listening Session



Thursday, June 25, 2020, 6:30 p.m.–8:00 p.m.
Virtual Meeting

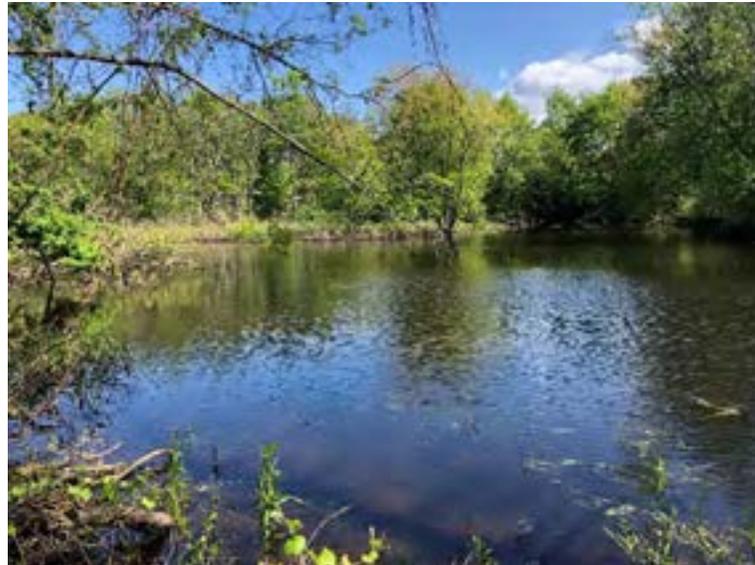
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Meeting Logistics – ZOOM Platform



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Stakeholder Listening Session



Thursday, June 25, 2020, 6:30 p.m.–8:00 p.m.
Virtual Meeting



Commonwealth of Massachusetts

Governor

Charles D. Baker

Lieutenant Governor

Karyn E. Polito

Energy and Environmental Secretary

Katie Theoharides

Department of Conservation and Recreation Commissioner

Jim Montgomery



DCR Mission Statement

*To protect, promote and enhance our
commonwealth of natural, cultural
and recreational resources
for the well-being of all.*

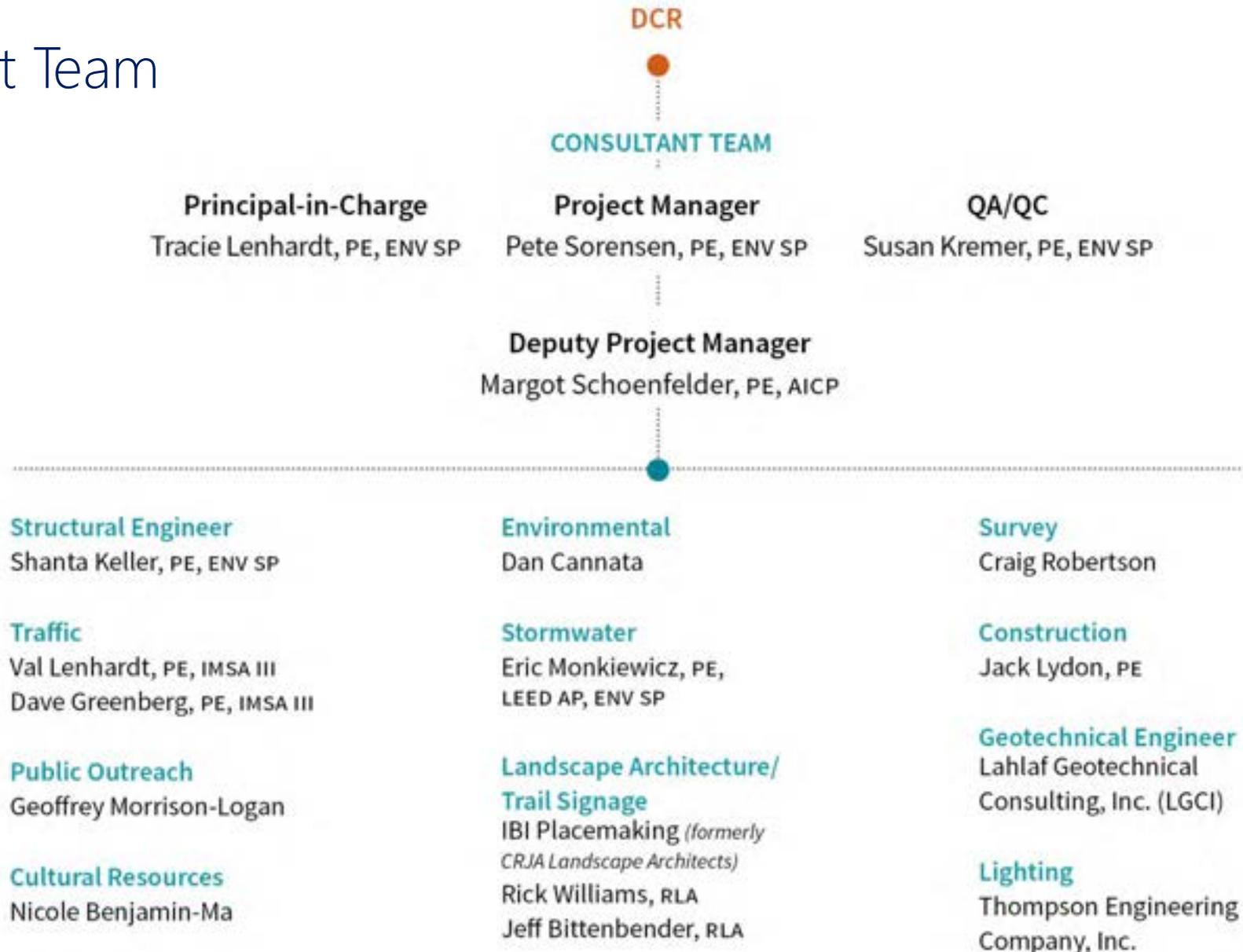
Meeting Purpose

- Introduce the Project and the Project Team
- Summarize Project Goals
- Introduce Our Design Process
 - Design Guidelines and Regulations
 - Site Observations
 - Project Elements
- Listen to Stakeholder Comments
- Review the Project Schedule and Next Steps

Project Goals

- Improve safety for drivers, cyclists, and walkers
- Create an accessible recreational path along the river
- Improve the ecosystem function of the Charles River Reservation
- Preserve the scenic character of the roadway and parkland, while accommodating both safety and access

Project Team



Project Locus



Project Scope

Phase 1—Concept Design

- Topographical survey
 - Wetland delineation
 - Resource areas
 - Utilities
- Existing conditions inventory
 - Draft traffic technical memorandum
 - » Traffic counts, speed, classification
 - » Crash summary and analysis
 - » Intersection analysis
 - Meet with DCR Planning and Operations staff to understand maintenance activities and challenges
 - Meet with municipal officials, stakeholder groups and/ or abutters to understand community use and goals for the site
- Site analysis plan
 - Plan that diagrams roadway, utilities, natural conditions, topography, existing vegetation as well as the visitor experience of the site, including entry points, circulation and accessibility, views and cultural landmarks
- Meet with DCR Project Team for a design workshop
 - Develop a minimum of 3 design Alternatives
- Conceptual design development
- Public Presentation
 - Present the revised Alternatives and solicit comment and ideas from those in attendance
- Plan Submittal: Revise the Preferred Plan and supporting documents according to DCR direction

Design Guidelines and Regulations

- DCR Historic Preservation Treatment Guidelines
- MassDOT 2006 Project Development & Design Guidelines
 - Complete Streets
- American Association of Highway and Transportation Officials (AASHTO)
 - Roadside Design Guide
 - Geometric Design of Highways and Streets (2018)
- Manual on Uniform Traffic Control Devices (MUTCD)
- Federal and State Separated Bike Lane Planning and Design Guide
- 2010 ADA Standards for Accessible Design
- 521 CMR Architectural Access Board Regulations
- U.S. Forest Service Trail Accessibility Guidelines (FSTAG)

Potential Permitting and Regulatory Requirements

Potential Permits

- Wetlands Protection Act
- Newton Floodplain Ordinance
- USACE 404 Permit
- MWRA 8M Permit
- Mass Historic Commission PNF

Resource Areas

- Wetlands
- Riverfront
- Bank
- Bordering land subject to flooding
- Floodplain
- 100 foot buffer zone

Stormwater Management

- Comply with Massachusetts Stormwater Standards



Site Observations

Quinobequin Road:

- 1.4 mile 2-way Minor Arterial
- Average roadway width of 24'
- Approximately 2,500 vehicles per day
- 25 mph posted speed
- Average travel speed 30mph+(observed)
- Reported vehicle accidents last 5 years (March 2015- June 2020)
 - Quinobequin Rd total of 6 Accidents at various locations (1.2 /yr.)
 - Route 9 Ramps and underpass total of 40 (Average 8/yr)*
 - * State classified high accident location
- 11 intersecting streets
- Substandard Guardrails
- Limited site distance at curves



Site Observations

Pedestrian and Bicycle Accommodations

- Primary and secondary walking trails do not comply with AAB and ADA
 - Narrow width
 - Areas of steep grades
 - Non accessible surface with roots and obstruction
- Intermittent asphalt sidewalk on residential side
 - Radcliff Rd to Larkspur Rd—1150'
 - 400' section between Irwin and Carlton
 - Varick Rd to project limits—650'
- No ADA compliant wheelchair ramps
- No existing crosswalks or formal trailheads
- No bicycle accommodations
 - No shoulders, sharrows or signage



Site Observations

Drainage

- Country drainage with limited drainage structures
- Areas of flooding concern between Carlton Rd and Gould Rd
- Erosion on the edge of road from drainage and parking
- 18 drainage outfalls/swales
- 7 locations where water course crosses existing foot path



DCR "Kit of Parts"—Surfaces



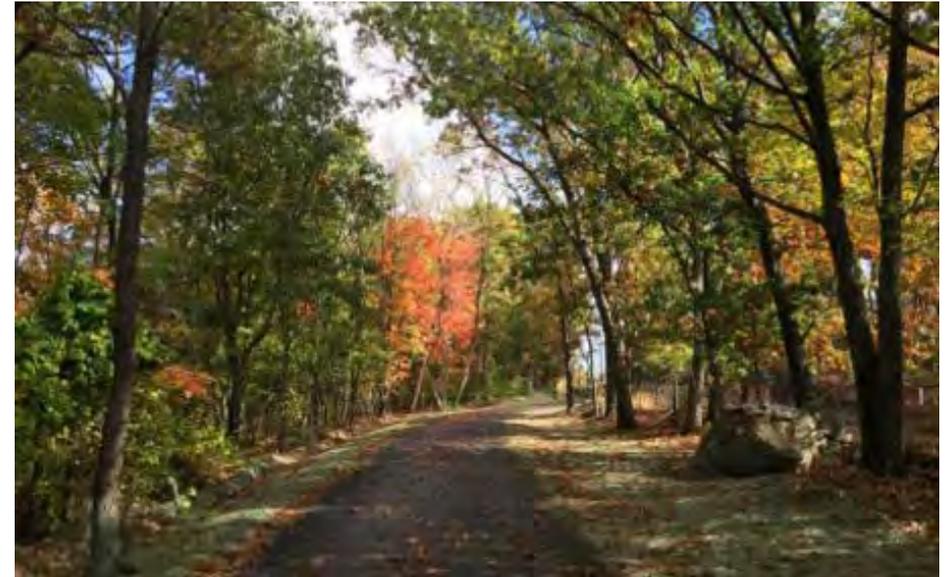
Permeable resin aggregate



StaLok aggregate—high traffic/slope



Stabilized stone dust



Asphalt pavement

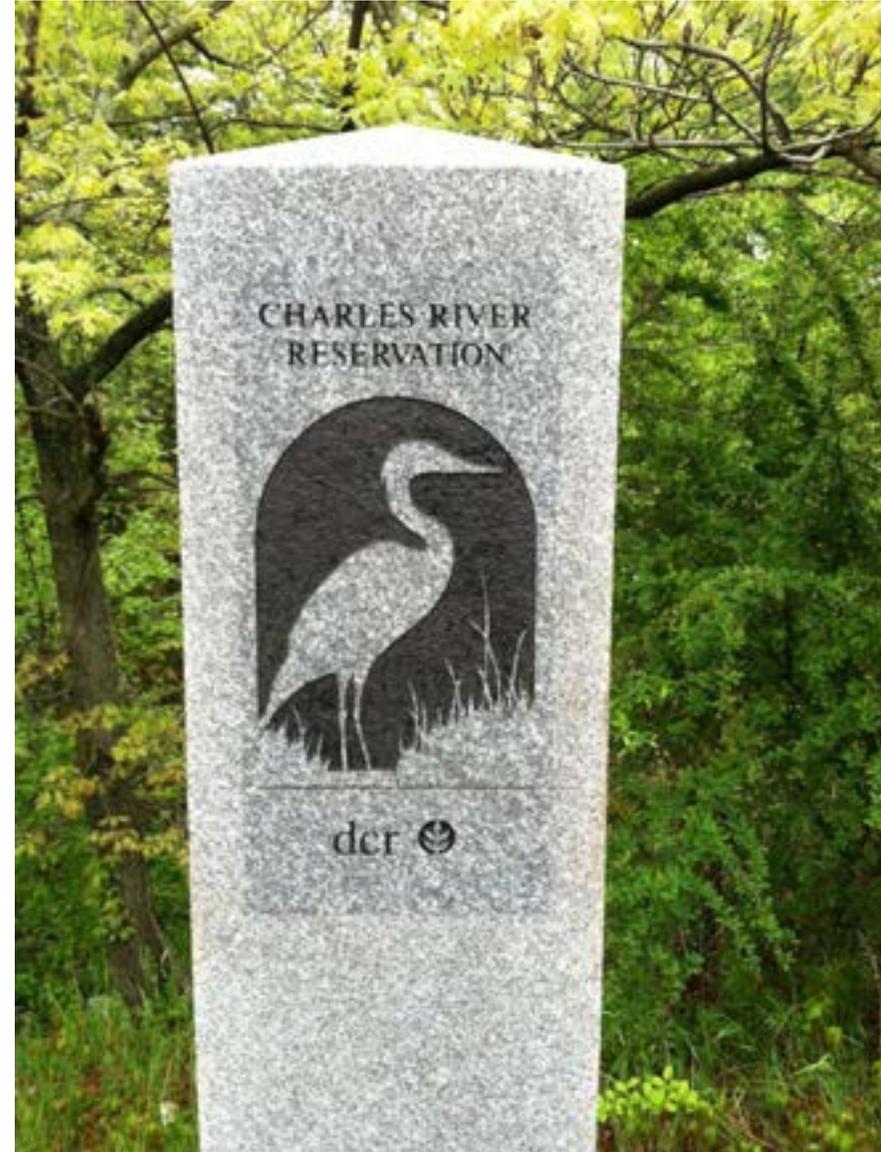
DCR "Kit of Parts"—Amenities



Shurcliff Bench



Interpretive Boulders



Granite Pier—Trailhead Marker

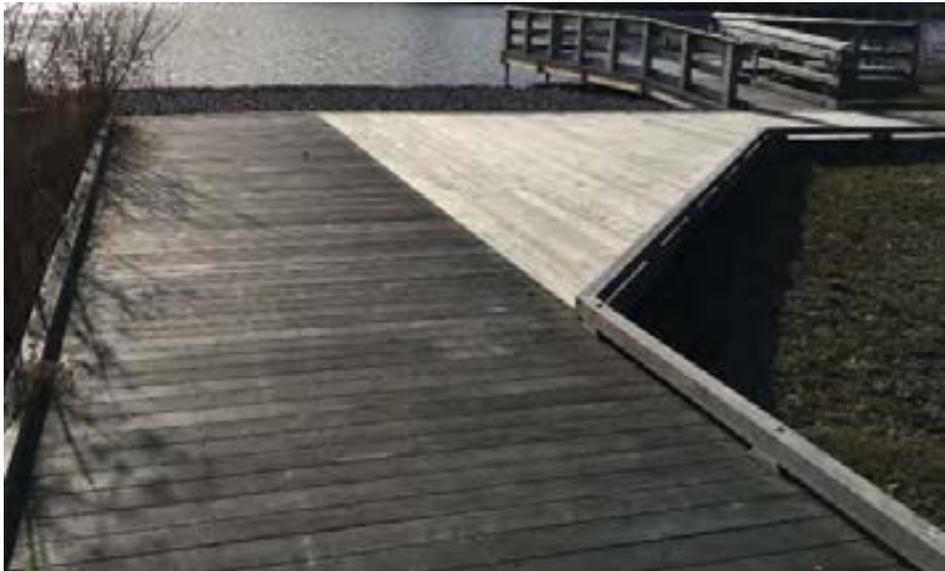
DCR "Kit of Parts"—Boardwalks and Overlooks



Timber boardwalk with rails



Timber curb boardwalk



TIMBER boardwalk AND overlook



Viewing platforms

DCR "Kit of Parts"—Stormwater Treatment



Wetland Plant Plugs



Vegetated Swale—Install



Vegetated Swale—Year 2



Consider pavement reduction were possible



Steel-backed wood guardrail—front



Pedestrian crossing



Steel-backed wood guardrail—back

Site Key Plan





Area 1—Site Photos





Area 2—Site Photos



Area 3—Observations



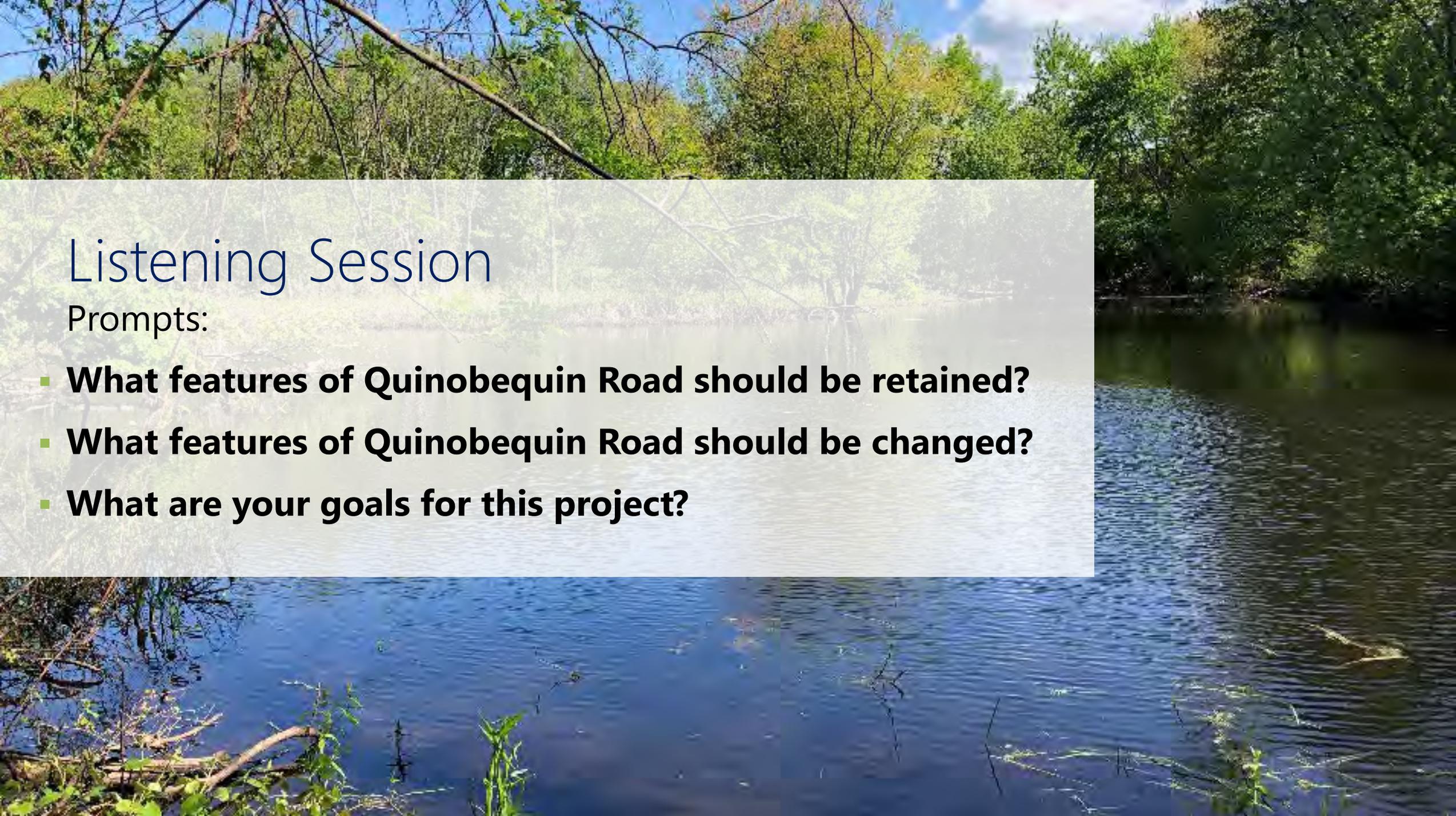
Area 3 – Site Photos





Area 4—Site Photos





Listening Session

Prompts:

- **What features of Quinobequin Road should be retained?**
- **What features of Quinobequin Road should be changed?**
- **What are your goals for this project?**

Listening Session

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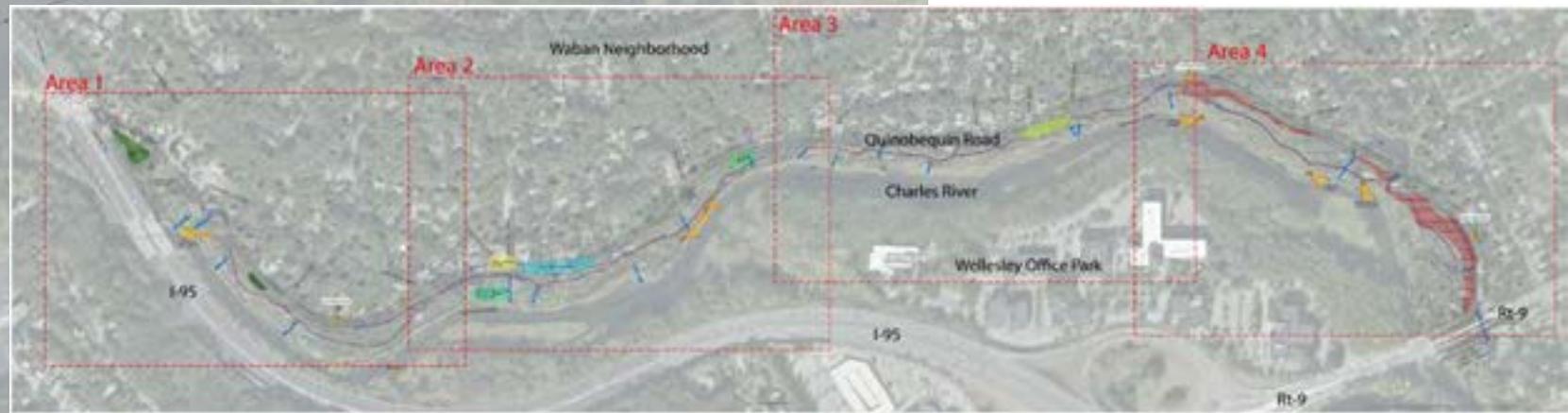
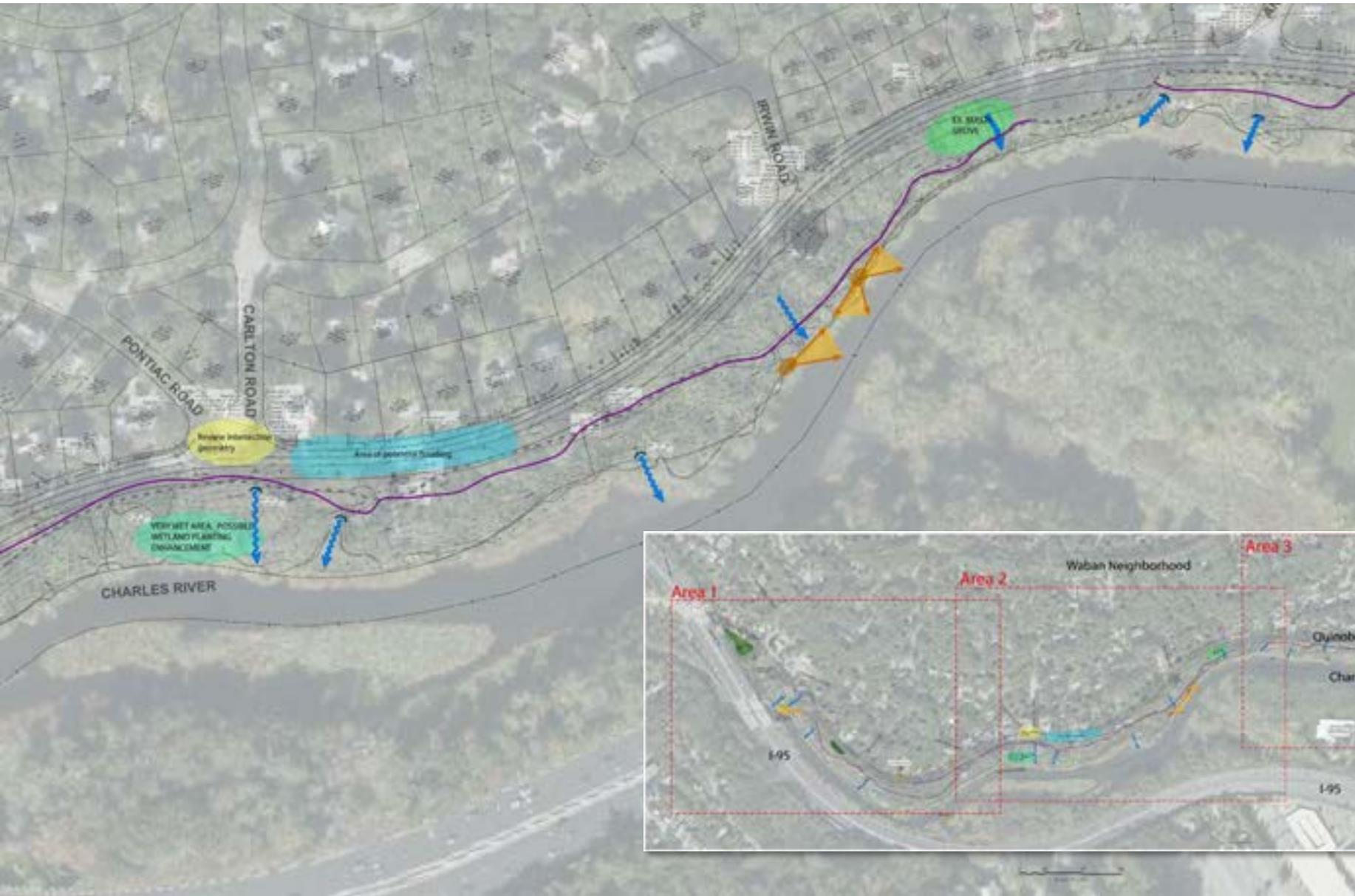
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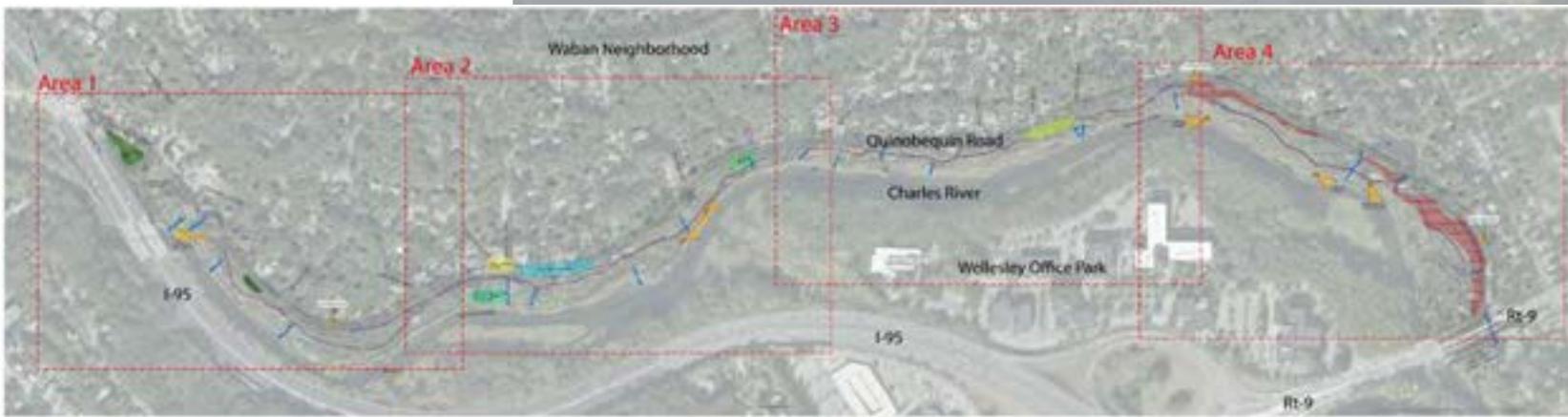
Area 1—Observations



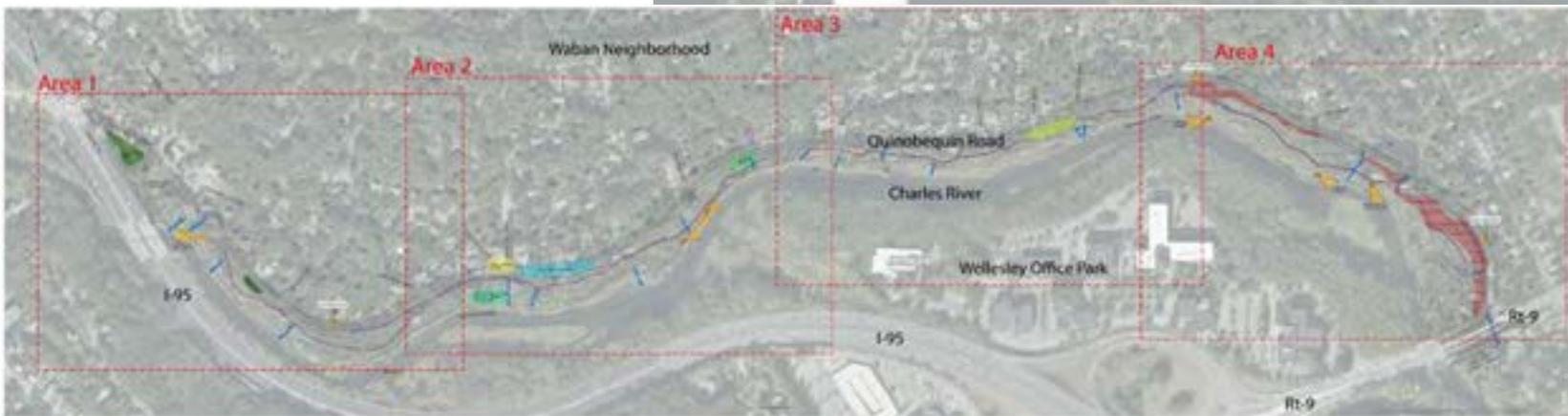
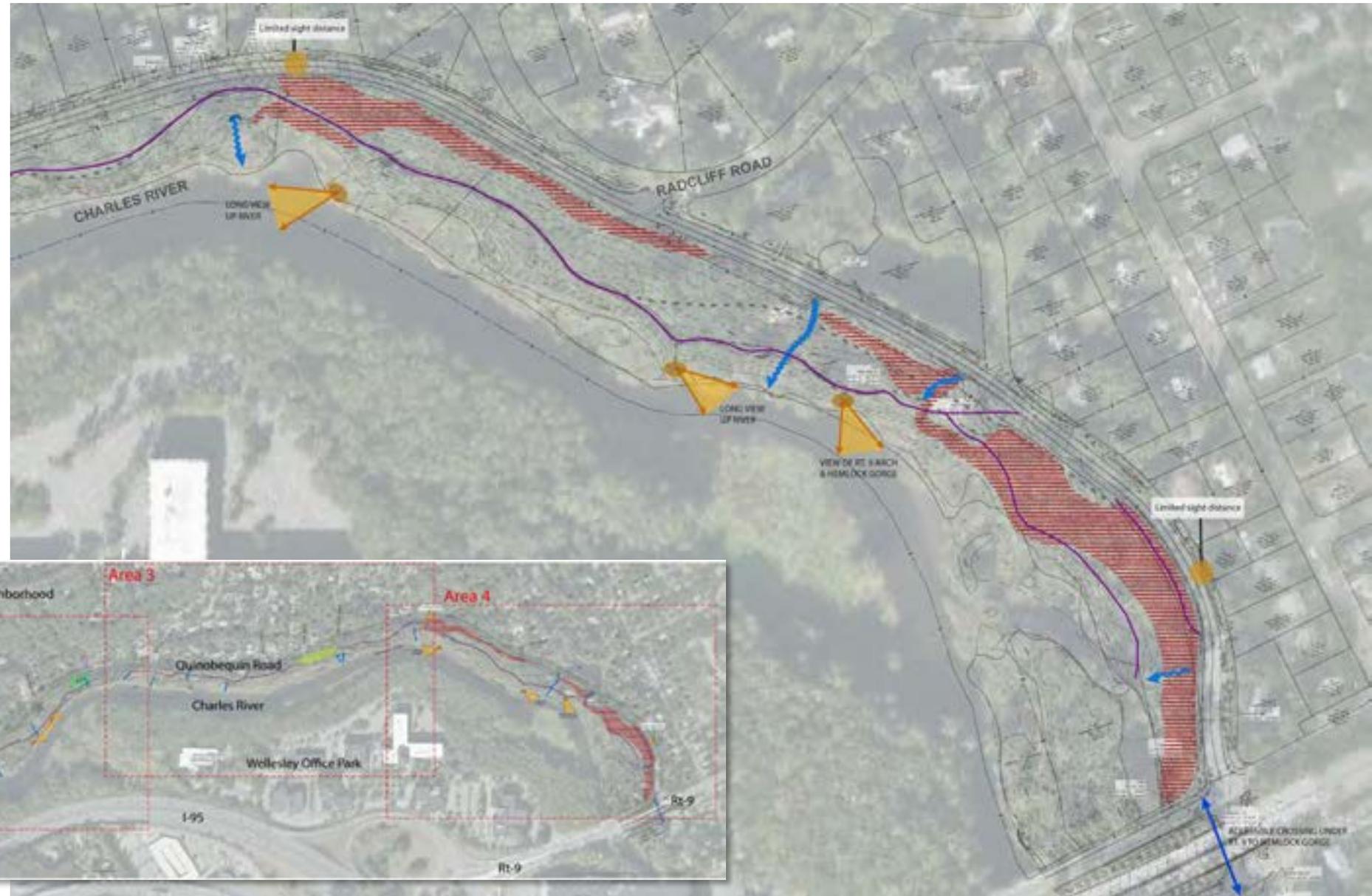
Area 2—Observations



Area 3—Observations



Area 4—Observations



Project Schedule



- Meeting / Presentation
- ★ Tonight's Meeting
- ◆ Deliverable
- Consultant Design/ Production/ Coordination
- DCR Review/ Approval/ Coordination

Additional Information

For more information:

www.mass.gov/dcr/past-public-meetings

If you have comments or suggestions on this project:

Submit online: www.mass.gov/dcr/public-comment

Deadline: Friday, July 17, 2020

Note: Public comments submitted to DCR may be posted on the DCR website in their entirety, and no information, including contact information, will be redacted.

If you wish to subscribe to a DCR general information or project-related listserv: contact DCR's Office of Community Relations at 617-626-4973 or Mass.Parks@mass.gov