Walden Pond Accessibility Improvements



DCR Public Meeting

November 19, 2019 Harvey Wheeler Community Center, Concord



Commonwealth of Massachusetts

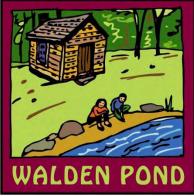
Governor Charles D. Baker

Lieutenant Governor Karyn E. Polito

Energy and Environmental Affairs Secretary Kathleen A. Theoharides

Department of Conservation and Recreation Acting Commissioner Jim Montgomery





DCR Mission Statement

To protect, promote and enhance our common wealth of natural, cultural and recreational resources for the well-being of all. MARYANN THOMPSON ARCHITECTS Maryann Thompson Architects: Architecture, Prime Consultant Bathhouse



Crosby, Schlessinger, & Smallridge: Landscape Architects, Prime Consultant Universal Access

BSC GROUP

BSC Group: Engineering & Permitting

Peter S. Jensfen & Associates, LLC

Peter Jensen and Associates: Trailbuilding Consultant

Consultant Team

Purpose

Present and obtain public input on:

- Thoreau House Site Trail Accessibility Improvement Project
- Main Beach Accessibility Improvement Project, including the proposed Boardwalk and Bathhouse
- Proposed project schedules

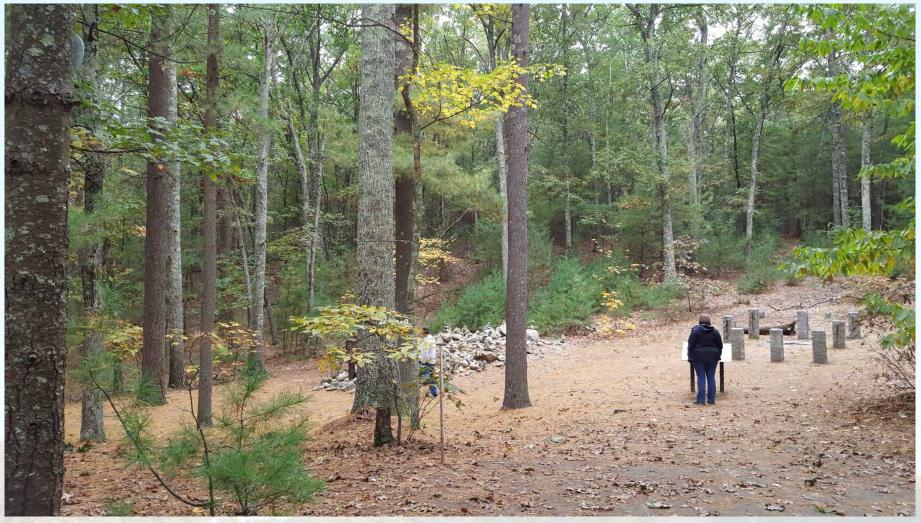
Agenda

- Overview of Project process and history
- Presentation of the Thoreau House Site Trail Accessibility Project
- Design progress on the Main Beach Accessibility Improvement Project
- Open comment period

Tonight's Meeting

- 2013 DCR Resource Management Plan (RMP) / Visitor Services Master Plan were prepared to initiate visitor center planning, and make priority management recommendations for the Reservation.
- Recommendations included improving universal accessibility at Walden Pond, including the Main Beach and the Thoreau House Site.
- The Walden Pond Main Beach, including the existing bathhouse, does not comply with state and federal accessibility codes. Prior to the Visitor Center project, DCR made the commitment to bring the Main Beach and bathhouse up to these standards.
- January 30, 2019 public meeting reviewed bathhouse and boardwalk concept.
- May 2019 building study evaluated two options:
 - renovating of existing bathhouse; and
 - constructing a new bathhouse at the plaza level

Accessibility Improvements Background



Thoreau House Site, existing condition

Thoreau House Site Trail Accessibility Improvements

Improve visitor accessibility for all to the Thoreau House Site, a historically significant location of interest to visitors

- Incorporate Universal Access Design principles
- Meet U.S. Forest Service Trail Accessibility Guidelines
- Maintain the rustic trail experience
- Incorporate elements of interest present in the landscape

Minimize impacts to cultural and natural resources in Walden Pond State Reservation, a National Historic Landmark

- Use best management practices to improve water quality
- Use best management practices to protect and restore habitat
- Protect archaeological resources

Project Goals Thoreau House Site Trail Accessibility Improvements

- The project will improve access for all to the Thoreau House Site, from the Visitor Center crosswalk.
- Three alternatives were assessed. The Woods Path Trail alignment was selected, primarily due to reduced disturbance to natural and cultural resources.
- The trail will restore the surface of the existing Woods Path trail, and in some places reduce the overall width.
- The trail will be built to U.S. Forest Service Trail Accessibility Guidelines, with 90% of the trail being 5% longitudinal slope or less.
- Restored areas will be hand-raked to loosen compaction, reseeded with native understory species and stabilized with on-site woodland duff.
- The restored trail will end at a level landing near the House Site and will provide interpretive signage.

Thoreau House Site Trail Accessibility Improvements

Process

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Site Plan Thoreau House Site Trail Accessibility Improvements

Schedule

Permitting: Bid Documents: Project Award: Project Construction: Trail Opening:

November - December 2019 January 2020 End of March 2020 Spring 2020 Late Summer 2020

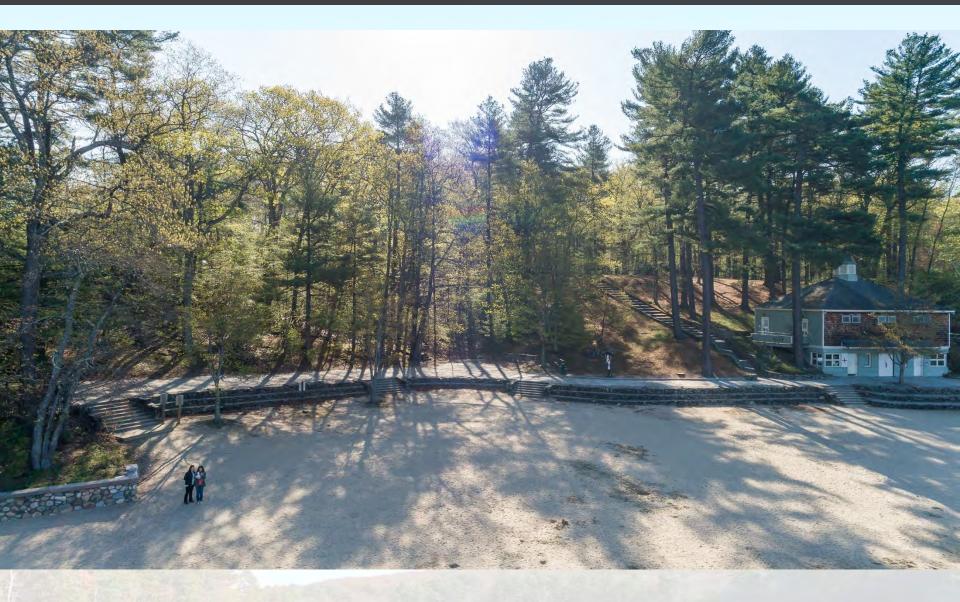
Construction Estimate

\$450,000 (anticipated construction cost)

The project is funded this fiscal year.

Schedule and Estimate of Probable Cost Thoreau House Site Trail Accessibility Improvements

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Main Beach Universal Accessibility Improvements

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1924

Since the 1900s, the east bank of Walden Pond has been used for water-based recreation, predominantly for swimming.

1922 map of Walden Pond show recreational infrastructure including two bath houses, a boathouse, and two toilets.



Historical Context – Walden Pond Main Beach Main Beach Universal Accessibility Improvements



1946

1970s

Historical Context – Walden Pond Main Beach Main Beach Universal Accessibility Improvements

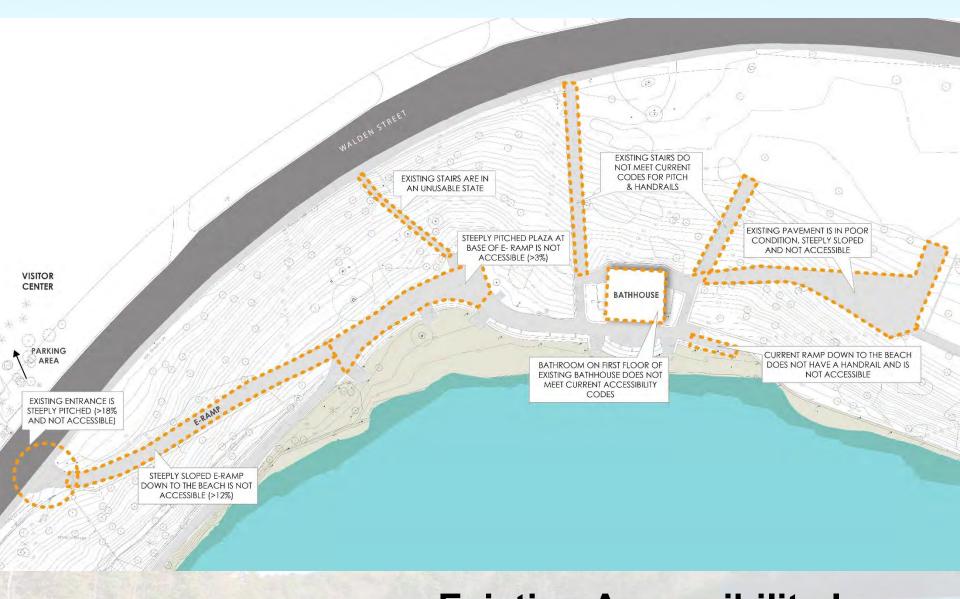
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Historical Context – Walden Pond Main Beach Main Beach Universal Accessibility Improvements

- Provide universally accessible arrival sequence and pathway to the beach and bathhouse that can be maintained year round.
- Incorporate Universal Design principles that will provide convenience to all visitors.
- Minimize the length of accessible routes to the greatest extent possible.
- Minimize the visibility of the new pathway from the pond and trails around Walden Pond.
- Minimize land alteration in Walden Pond State Reservation, a National Historic Landmark.

Project Goals Main Beach Universal Accessibility Improvements



Existing Accessibility Issues Main Beach Universal Accessibility Improvements The existing entrance is very steeply pitched and not accessible



The primary access path down to the beach is steeply sloped and not accessible



The cross-slope on the existing plaza does not meet accessibility requirements





The existing pavement in other areas is in poor condition and not accessible

Existing stairs are unusable



Existing ramp does not have a handrail



Existing Accessibility Issues Main Beach Universal Accessibility Improvements

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Bathhouse restrooms are on the second level and only accessible by stairs and a narrow walkway behind the building



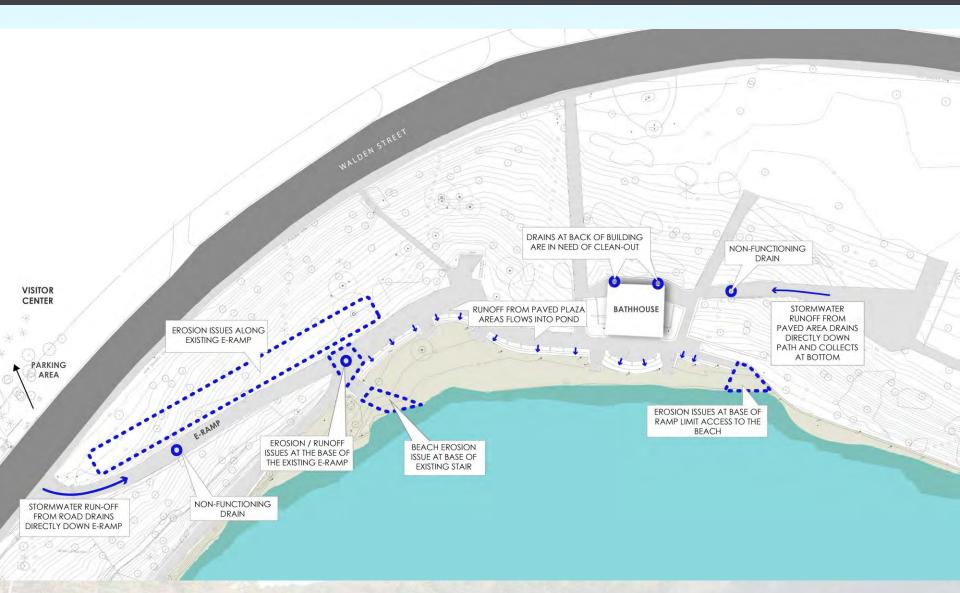
Single accessible bathroom doesn't conform to current accessibility code in configuration or quantity







Existing Accessibility Issues Main Beach Universal Accessibility Improvements



Existing Drainage / Water Quality Issues Main Beach Universal Accessibility Improvements

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Run-off and sediment issues on E-ramp



Eroding soils add to run-off sediment from road along the E-ramp



Sediment filled catch basin on Eramp





Drainage issues at E-ramp lead to erosion of beach at the base of the steps

Plaza run-off flows directly into the beach area and pond





Erosion of the beach at bottom of the existing access ramp

Existing Drainage / Water Quality Issues Main Beach Universal Accessibility Improvements



Existing rest room areas are not inviting and have old inefficient fixtures



Existing septic pump station is not designed to current DEP Title V regulations

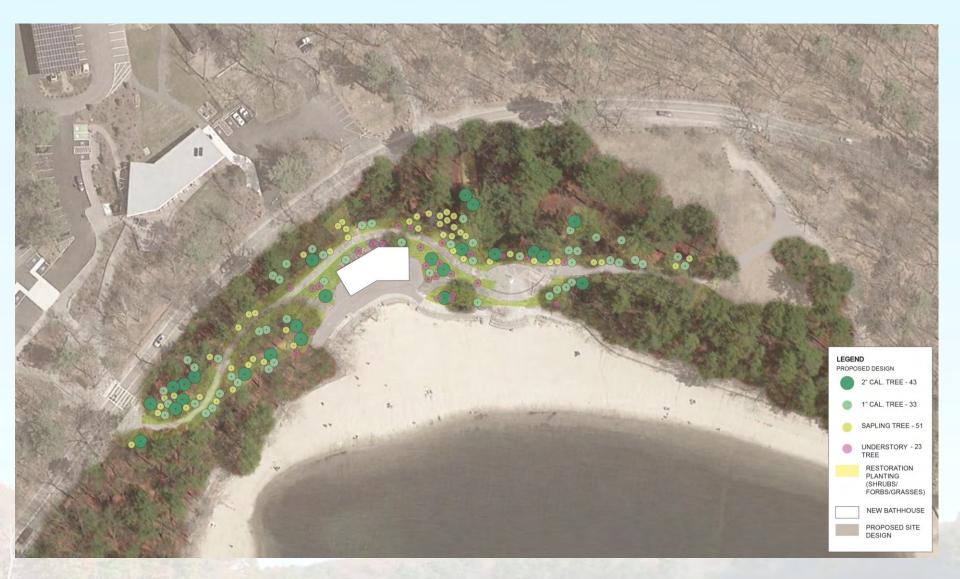
Existing Drainage / Water Quality Issues Main Beach Universal Accessibility Improvements



Proposed Site PlanMain Beach Universal Accessibility Improvements



Site Removals Main Beach Universal Accessibility Improvements

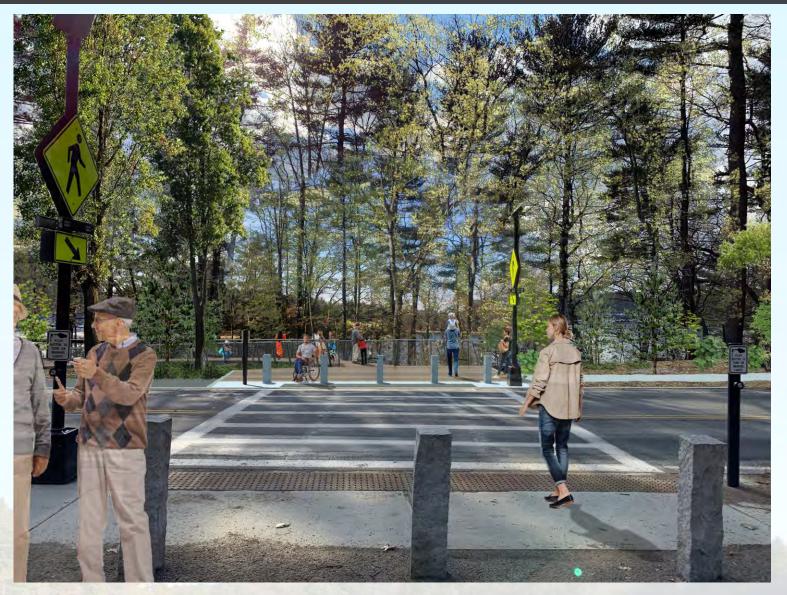


Landscape Restoration Main Beach Universal Accessibility Improvements



Site Section/ Elevation Main Beach Universal Accessibility Improvements

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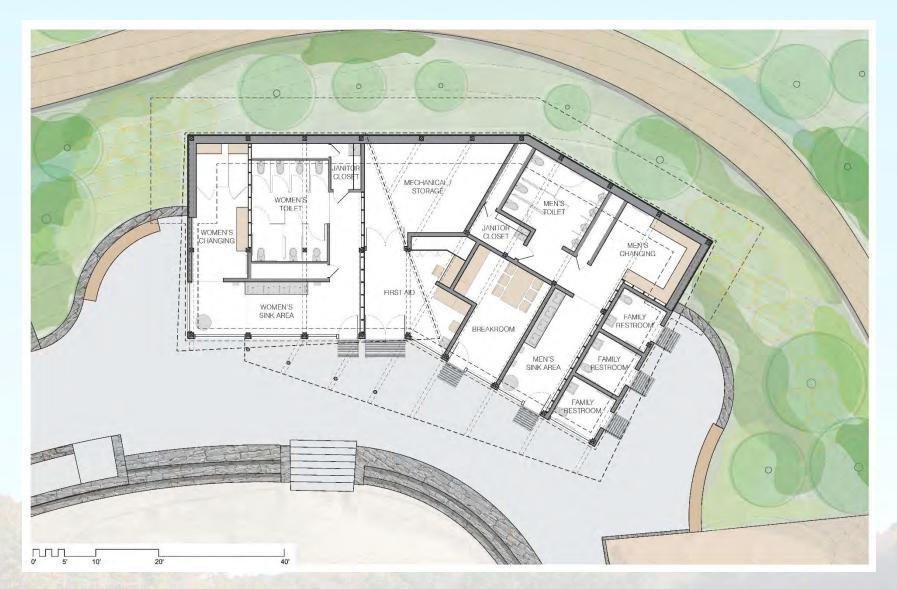


Perspective: Arrival at Walden Street Main Beach Universal Accessibility Improvements



Perspective: New Bathhouse Main Beach Universal Accessibility Improvements

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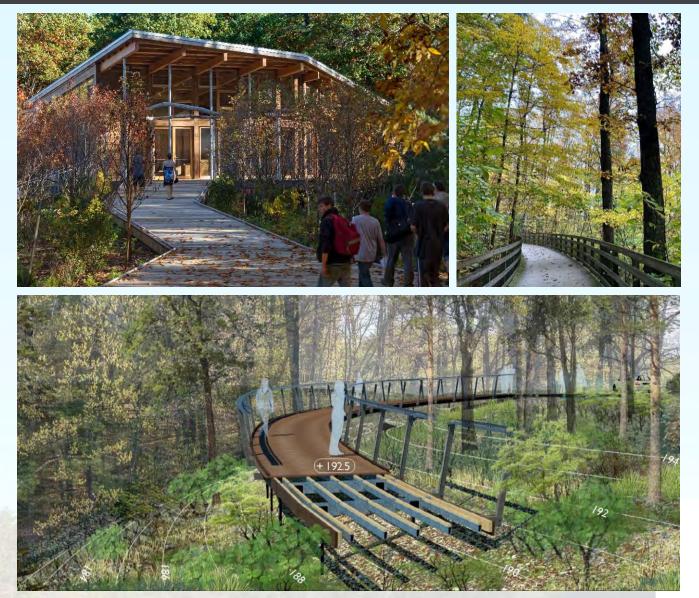


Bathhouse Plan Main Beach Universal Accessibility Improvements



Site Section/ Elevation Main Beach Universal Accessibility Improvements

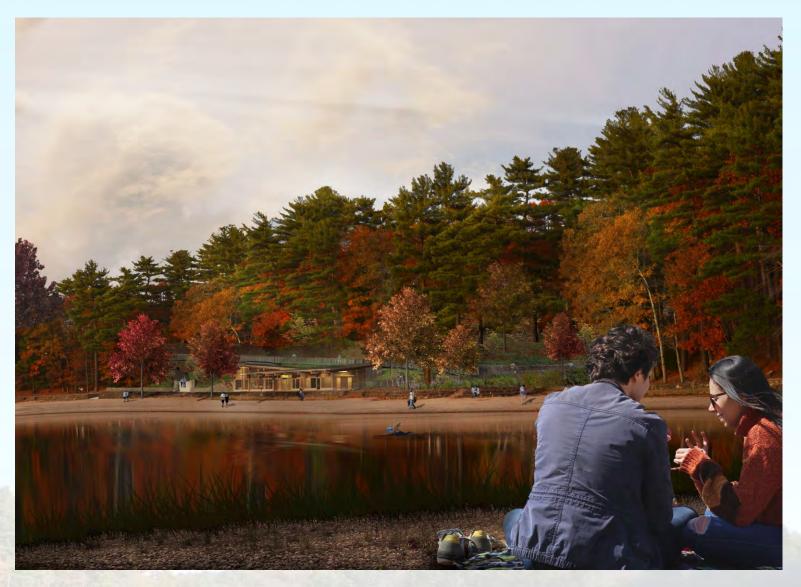
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Design CharacterMain Beach Universal Accessibility Improvements



Perspective: New BathhouseMain Beach Universal Accessibility Improvements



Perspective: Main BeachMain Beach Universal Accessibility Improvements

- Improves accessibility from the main entrance to the Bathhouse, beach plaza and beach area and realizes DCR's commitment to making Walden Pond universally accessible to all visitors.
- Takes advantage of project opportunities to improve drainage and erosion issues site-wide and reduces the impact of park recreational use on Walden Pond.
- Limits tree removal as much as possible. The project seeks to reuse existing felled trees to the extent possible on site for building structure and finishes.
- Fully restores site disturbance to a level of planting variety and abundance over and above that which presently exists on the heavily used eastern bank.
- Ensures all species planted are specifically selected to be native to the upland Kettle Pond plant communities of Massachusetts.

Project Benefits Main Beach Universal Accessibility Improvements

- Includes 150 new trees to help stabilize the slope, infill open canopy opportunity areas, and provide a great diversity of tree maturity for sustained canopy development over time.
- Includes over 1,500 understory shrub and perennial plantings to re-establish steep slopes and quickly out-compete potential invasive volunteers.
- Installs an additional 0.5 acres of vegetative restoration outside of project boundary in selected areas around Walden Pond.
- Removes over 2,500 square feet of impervious cover within the natural resource buffer zone.
- Bathhouse to feature natural materials, plenty of natural lighting and improved ventilation.
- Building energy use completely offset by existing Photovoltaic (PV) system behind Visitor Center through the use of energy efficient lighting and building systems.

Project BenefitsMain Beach Universal Accessibility Improvements

Environmental/Historic

- Wetlands Protection Act (Concord)
- Massachusetts Historical Commission Review
- Massachusetts Endangered Species Act (Natural Heritage & Endangered Species Program)
- National Pollutant Discharge Elimination System (U.S. EPA)

Construction

- Building Permit (State Building Inspector)
- Plumbing Permit (State Plumbing Inspector)
- Water Connection (Concord Water and Sewer)
- Electrical Permit (Concord)
- Fire Inspection (Concord Fire Department)
- Access Board review (Massachusetts Architectural Access Board)
- Emergency Access (Concord and Lincoln Fire Departments)

Anticipated Permits

Main Beach Universal Accessibility Improvements

Phase I Construction (New Bathhouse, Associated Landscaping)

 Bathhouse Construction:
 \$ 2,350,000

 Landscaping:
 \$ 1,475,000

 Total:
 \$ 3,825,000

Phase II (Boardwalk, Landscape Restoration) Construction: \$4,383,000

Grand total: \$8,208,000 (subject to change)

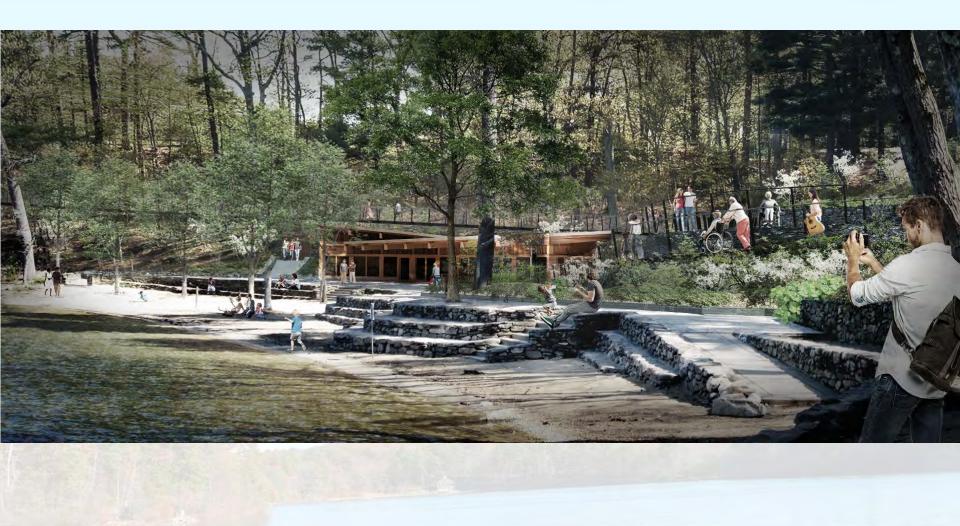
DCR is seeking money through the capital planning process, and exploring private contributions and grant opportunities.

Preliminary Cost Estimates and Funding Main Beach Universal Accessibility Improvements

- Public Comment Period (runs through December 11, 2019)
- Permitting
- Complete universal access and bathhouse design
- Identify project funding
- Design: 12 months (2019-2020)
- Construction two phases:
 - Bathhouse and related landscape: 12 months (2020-2021)
 - Universally accessible boardwalk and overlook: 12 months (2021-2022)

Next Steps/ Schedule Main Beach Universal Accessibility Improvements

Q / A and Discussion



For more information: DCR Website

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

If you have comments or suggestions on this project:

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

Write: Department of Conservation and Recreation Office of Public Outreach 251 Causeway Street, Suite 600 Boston, MA 02114

Deadline: Wednesday, December 11, 2019

<u>Note</u>: 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 Walden Pond project-related listserv: contact DCR's Office of Community Relations at 617-626-4973 or Mass.Parks@state.ma.us.

Additional Information