Welcome Everyone!

- Introduction—Goals, Process, Funding
- Existing Conditions and Site Analysis
- State Requirements for Dam Safety
- Open Discussion
- Summary and Conclusion
Project Goals and Priorities

- Safety and accessibility;
- Community gathering;
- Opportunities for people of all ages and abilities; and
- Beautiful, natural, historic open space.
Project Objectives to Meet Goals

• Universal access and renovation of the walking paths;
• Masonry repair;
• Destinations for seating and picnicking;
• Turf and planting renovation, including removal of invasives;
• Strategy for a directive from the state’s Office of Dam Safety;
• Interpretive signage;
• Grading and drainage;
• Comfort station within the Gate House; and
• Treatment of the park’s perimeter and entrances.
Design Review Process

• Establishment of a Design Review Committee;
• Open discussion in public meetings of alternative solutions;
• Final presentation to and vote by Park and Recreation Commission; and
• Development of construction bid package by Town staff.
• Total project budget is $2.2 million, including the gate house and masonry repair at reservoir basin.
Existing Conditions—Survey
Existing Conditions—Aerial View

Brookline Reservoir Park

June 20, 2017
Significance of the Park--Historic
Significance of the Park—Recreational, Natural, Aesthetic, Community

Community Events

Fishing
Significance of the Park—Recreational, Natural, Aesthetic, Community

Walking for companionship or exercise

Running, with or without dogs
Significance of the Park—Recreational, Natural, Aesthetic, Community

Desirable wildlife

Nuisance wildlife
Significance of the Park—Recreational, Natural, Aesthetic, Community

Fall color

Spring color
Significance of the Park—Recreational, Natural, Aesthetic, Community

Family outings

Popular location for donor benches
Park Entrances

JUNE 20, 2017

BROOKLINE RESERVOIR PARK
Park Entrances

At Warren Street

Informal entrance at Rte. 9/Lee St. At Walnut Street

At Walnut Street
Park Entrances

At Dudley Street near Lee Street

Informal entrance at Dudley St.  At Dudley Street
Pedestrian Circulation

JUNE 20, 2017

BROOKLINE RESERVOIR PARK
Pedestrian Circulation

Stonedust path

Pinch point at gate house

Pedestrian desire line
Accessibility

Uneven surface

Steep slope exceeds 1:20

Informal entrance: steep, unpaved

Inaccessible stairs
Edge Conditions

Route 9 – Boylston Street

Lee Street

Dudley Way

Dudley Street

Fairmount Street

Walnut Street

Warren Street

Fisher Avenue

Cantil Road

BROOKLINE RESERVOIR PARK

JUNE 20, 2017
Edge Conditions

Lee Street

Route 9 Eastbound
Edge Conditions

Walnut Street

Dudley Way
Approaching Lee Street

Dudley Street
Signage

Interpretive signage

Regulatory signage
Drainage and Utilities

Regrading needed

Gully in stonedust

Washout in stonedust
Structures

Upper Gate House

Lower Gate House
Masonry Repair

Repair needed at basin armature

Joints deteriorating, volunteer growth

Repair needed at Dudley Street wall
Lawns and Vegetation

- Signature Cherry trees
- Invasive vegetation
- Trees over lawn
- Varied tree species
State Requirements for Dam Safety Compliance
State Requirements for Dam Safety Compliance

*REGULATED BY MASSDCR OFFICE OF DAM SAFETY (ODS)*

*“INTERMEDIATE” SIZED STRUCTURE*
- 19 FEET MAXIMUM HEIGHT
- 300 ACRE-FEET OF AVAILABLE STORAGE OF WATER
  98,000,000 GALLONS

*“HIGH” HAZARD CLASSIFICATIONS*
- FAILURE WOULD LIKELY CAUSE:
  LOSS OF LIFE
  SERIOUS DAMAGE TO HOMES, MEDICAL FACILITIES, AND COMMERCIAL DEVELOPMENTS

HAZARD CLASS HAS NOTHING TO DO WITH THE DAM’S CONDITION
State Requirements for Dam Safety Compliance

2014 INSPECTION

- **DAM IS GENERALLY WELL MAINTAINED**

- **OBSERVED DEFICIENCIES**
  - TREES AND BRUSH ON DOWNSTREAM SLOPE
  - BARE SOIL ON DOWNSTREAM SLOPE FROM SHADING
  - SMALL ANIMAL BURROWS
  - EROSION ALONG GATEHOUSE
  - MINOR DEPRESSIONS ALONG CREST
  - MINOR DETERIORATION OF DOWNSTREAM WALL
  - MINOR DETERIORATION OF UPSTREAM GRANITE PAVING
ODS POLICY ON TREES ON DAMS

• Dam embankments must be maintained free of trees and brush
• No trees and brush within 20 feet of dam or appurtenant structures
• Healthy uniform cover of grass is recommended
• Permit required if vegetation to be removed is greater than 4 inches in diameter

State Requirements for Dam Safety Compliance

COORDINATION WITH ODS

- ODS Order Dated September 12, 2014
- Meeting with ODS to observe existing conditions
- TOB - Survey/Inventory of Trees/Assessment of Condition
- Presentation – October 13, 2015 – Tighe & Bond/Brookline Engineering Division: Condition and Status of Brookline Reservoir Park as Dam.
- Site Walk – November 20, 2015 – Neighbors, Park and Recreation Commission, Staff
- February 24, 2016 – Tighe & Bond Submits 3 Phase Tree Management Plan
- Meeting with ODS to discuss Tree Management Plan
- Tighe & Bond Field Inspection 2017

THIS DESIGN REVIEW COMMITTEE PROCESS WILL DEVELOP IN MORE DETAIL THE APPROACH TO DAM TREATMENT.
What do YOU want for your park?
What do you like best about the park?
What would be the biggest improvement?
Your input is valuable - Please contact us with your ideas!

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