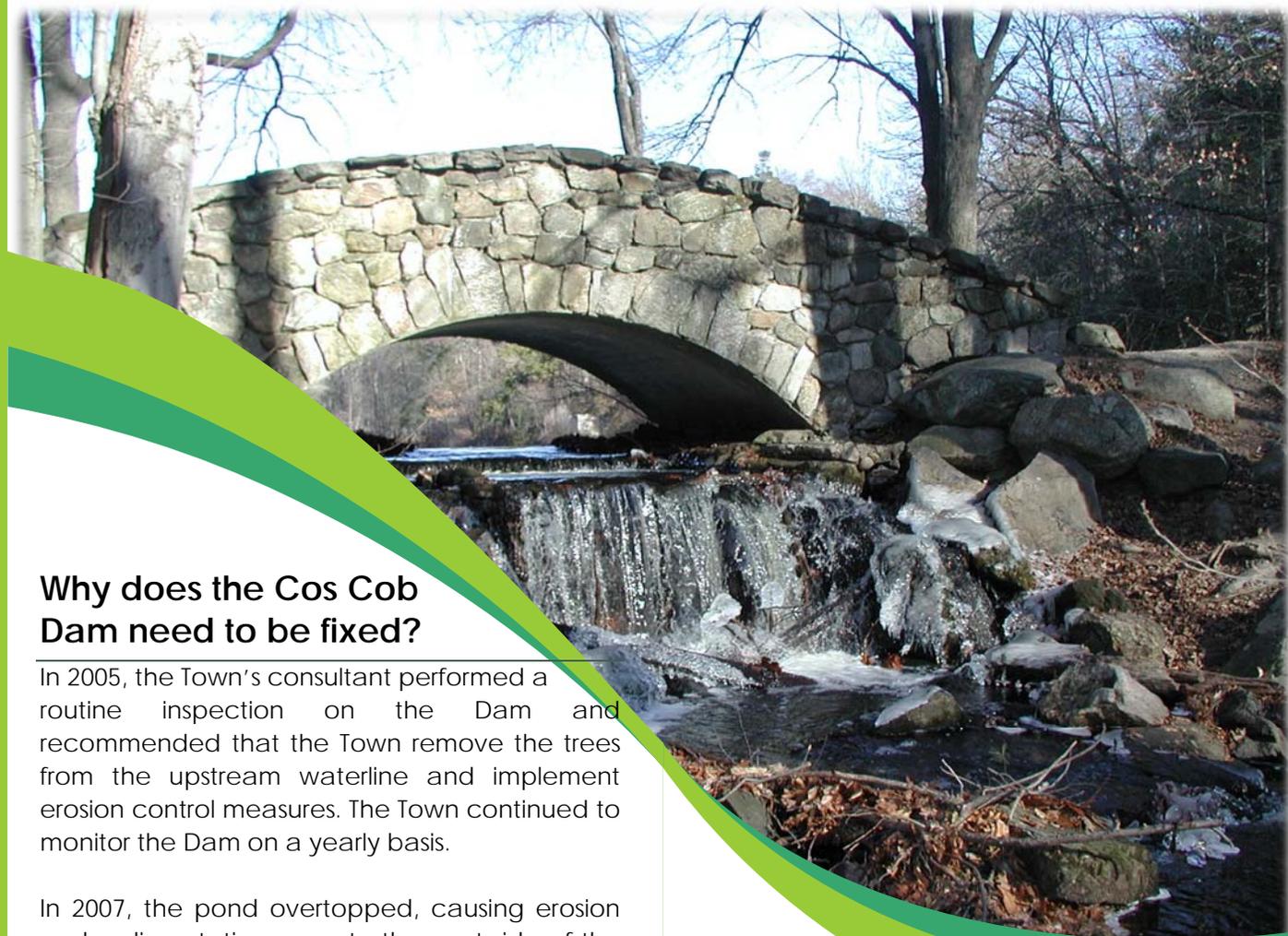


# Project Overview

- The Cos Cob Pond Dam is an earthen embankment with a stone masonry arched bridge over a centrally located spillway within Pomerance Park.
- The Dam has a gravel roadway along the crest and some riprap along the upstream slope.
- The Dam has a length of 190 feet and a maximum height of approximately 10 feet.
- The crest width varies with a minimum of approximately 16 feet.
- The water surface contained by the Cos Cob Pond is approximately 4.6 acres and the watershed area is approximately 1.83 square miles.
- The Dam has a hazard classification of Class BB (moderate). If it fails, it will cause damage to storage structures and low volume roads, resulting in moderate economic loss.



## Why does the Cos Cob Dam need to be fixed?

In 2005, the Town's consultant performed a routine inspection on the Dam and recommended that the Town remove the trees from the upstream waterline and implement erosion control measures. The Town continued to monitor the Dam on a yearly basis.

In 2007, the pond overtopped, causing erosion and sedimentation scour to the west side of the Dam. The Town's consultant inspected the Dam for damages and recommended that the trees from the abutments and embankments be removed from the upstream and downstream sides along with erosion control measures. The Town continued to monitor the Dam on a yearly basis.

In 2015, the Town's Consultant performed a routine inspection and recommended that the trees on the embankments be removed and to implement erosion protection measures. Subsequently, the Town received a letter from the DEEP mandating that the Town complete the work.



## Repairs & Modifications to the Cos Cob Pond Dam

Dam No. 05769-Town Project No. 17-20a



### Items taken into consideration with the proposed design:

- Repairing the existing infrastructure while preserving the natural beauty of the surrounding landscape.
- Maintaining the existing stone arch bridge
- Maintaining the existing gravel trail
- Defining the work limits only for the area required

### Project Timeline

Summer 2018 – Project out to Bid  
Fall 2018 – Tree Removal  
Fall 2019 – Construction

*\*The Town appreciates your patience and understanding that this project is necessary and will be a significant safety improvement. It is the Town's policy to keep the public informed and involved when such projects are undertaken. As this project progresses, further updates will be posted on the Town's website. Please check the Town of Greenwich Public Works webpage for regular updates.*

### What is being done?

- A 2' wide x 4' deep buried concrete block retaining wall will be installed.
- Buried 6" articulated blocks will be installed along the pathway (90' to the east; 115' to the west) and filled with gravel to keep with the existing look and feel of the park.
- Downstream embankment will be replaced with articulated block and filled in with soil and native grass.
- Upstream embankment will have riprap stone placed to prevent erosion to match the native stone around the perimeter of the pond.
- Approximately 20' from the spillway of the dam on the downstream side will be filled in with riprap stone for erosion control.
- The spillway will be repaired.
- 21 trees will be removed as required by the Department of the Environmental and Energy Protection.
- The mortar on the arched bridge will be repaired as needed.

### How long will this take?

It is estimated that the construction will take approximately 3-months, weather permitting. The park will be open but the trail within the limits of work will be restricted.

### How much will this cost?

The estimated cost is \$480k.  
The actual cost is dependent on the bid results.

### Contact Us

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