



August 12, 2021

Donald Gentile, Chair
Lynnfield Conservation Commission
55 Summer Street
Lynnfield, MA 01940

Re: 0 and 36 Elmwood Road
Lynnfield MA

Dear Mr. Gentile and Members of the Commission:

On behalf of Bryan Last, property owner of 0 and 36 Elmwood Road; Patriot Engineering LLC submits this letter and accompanying exhibits of the above-mentioned properties. The exhibits provide an overlay of the previously completed existing conditions survey (May 2020) of the properties 0 and 36 Elmwood with historic aerials of Pillings Pond (the pond) and the surrounding area obtained from Bluesky International.

The provided exhibits include aerials from 1953, 1967, 1980, 1990, 1996, 2005, and 2011; each exhibit has the aerial year noted in bold. In reviewing the timeline from 1953 up to 1996 there is a consistency in the upland area (area not under water) adjacent to the pond associated with the subject properties. The aerial image from March 1990 appears to have snow cover which helps to illustrate that the area in question is above the water level of the pond. The image shows a clear channel of water to the north of the properties and snow-covered channel bank. As you move to the south toward the subject properties there is a transition to a vegetated area based on the shadows and break in snow cover.

The aerial image from December 1996 shows a change in what has been a consistent upland area. The label shown on all the plans of the upland area beyond the subject properties was added to the base plan with the April 1953 aerial background and location was not changed through the sequence of images. The aerials were each overlaid on the base plan (field survey from May 2020). This shows the evolution of the area in question with the biggest change coming between March 1990 and December 1996. This change appears to line up with the dredging project that took place within the Pond in the same timeframe.

When comparing the 1990 to 1996 aerial images there is a clear change in the water level of the pond adjacent to the subject properties. The area to the north of the subject properties (as shown on the survey plan form 2020) shows a loss of upland area (area not under water) that throughout previous years (prior to 1996) was consistently above the water level of the pond.

The upland area lost from the 1953 to 1996 aerals is approximately 12,000 SF when compared to the survey from May 2020. Also, all the improvements made onsite appear to have been completed in area that was always upland area.

The aerals from April 2005 and 2011 show the water level of the pond staying relatively consistent (from 1996) and are a much closer representation to the survey plan from May 2020.

Patriot Engineering thanks you for your time in reviewing this matter. Please contact the office with any questions you may have at 978-726-2654 or mnovak@patriot-eng.com

Sincerely,



Michael J Novak, P.E.

PATRIOT ENGINEERING LLC

35 Bedford Street, Suite 4

Lexington, MA 02420