

MEMORANDUM

TO: Ms. Kathy Sferra, Conservation Coordinator – Town of Stow, MA

FROM: Timothy Blair, PE – Weston & Sampson Engineers, Inc.
Stephen Spink, PE – Weston & Sampson Engineers, Inc.

DATE: January 12, 2021

SUBJECT: Agenda for Upcoming Conservation Commission Meeting
Lake Boon Dam Rehabilitation – Stow, MA

As you know, Weston & Sampson has been advancing the design of the proposed Lake Boon Dam rehabilitation project. We estimate that the project design plans are approximately 60% complete at this time. As you suggested during our site meeting at the dam this past November, we plan to meet with the Town of Stow Conservation Commission (the Commission) to discuss aspects of the proposed design and project considerations on January 19, 2021.

We plan to prepare a short presentation and anticipate the following meeting agenda.

- Project Introduction
- Presentation of 60% Design Plans
- Discussion of Outstanding Project Design Considerations
- Anticipated Next Steps/Project Schedule
- Questions

The outstanding design considerations that we would like to discuss with the Commission are summarized below.

1. Permanent resource area impacts on the dam downstream embankment. Permanent impacts due to fill placement and other improvements are currently estimated to be between approximately 5,000 and 6,000 square-feet.
2. Lake level management during construction. Project construction will likely require a cofferdam(s), which would temporarily impact existing land under water.
3. Challenges associated with on-site wetland replication. Since much of the project area is currently wetland and/or privately owned, there is little room for wetland restoration.
4. Compensatory flood storage requirements on the dam downstream embankment. The proposed work areas are located within the regulatory floodplain, which poses design and permitting challenges.

We look forward to meeting with you next week. Please contact us in the meantime if you have any questions.