

MEMORANDUM

**AGENDA ITEM 2
APRIL 27, 2023 MEETING**

To: Conservation Commission/**Inland Wetlands and Watercourses Agency**

From: Suzanne Simone, Environmental Planner

Date: April 20, 2023

**Re: IWWA Permit Application: Irrigation Pond Outlet Structure Modification
150 Chatham Hill Rd**

Review Documents:

Site Plan Set, Revised April 13, 2023

Project Narrative

Engineering Department Email Comment

July 22, 2021 IWWA Permit

2021 Hydrologic and Hydraulic Analysis

Proposal

The applicant seeks a permit for the modification to the existing farm irrigation pond outlet, to include a pipe culvert under the existing spillway.

Review

The plan proposes to modify the existing farm irrigation pond outlet by installing a 30" HDPE pipe, serving as the outlet to the pond with direct connection to the watercourse to the north. In 2021 the Agency issued a permit for the creation of the farm pond spillway and lining the watercourse banks with large stones. The site work covered under the 2021 permit is now complete and the majority of the area established with vegetation. In conjunction with the 2021 permit, the Agency determined the creation of the farm pond met the standards for an agricultural exemption. The outlet structure is not covered under the exemption and therefore the plan for a revised outlet structure is submitted for Agency review.

The installation of the proposed pipe will be located under the area of the existing stone spillway. Soil disturbance will be limited to this area. The applicant will be prepared to discuss the construction sequence and potential need for dewatering, depending on the methods and conditions when the work is proposed to commence.

The Engineering Department has reviewed the plans and determined that drainage calculations are not necessary, the proposed pipe will supplement the flow capabilities of the existing spillway.

The upland area south of the existing farm pond is encumbered by a conservation easement.

Photo 1 taken April 21, 2023: View of pond and established stone spillway.



Photo 2 taken April 21, 2023: Profile view of pond and established stone spillway.



Photo 3 taken April 21, 2023: Existing spillway with stabilized stone.



Photo 4 taken April 21, 2023: Existing stone lined watercourse, connected to existing spillway.

