

# AMORY ENGINEERS, P.C.

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25 DEPOT STREET, P.O. BOX 1768  
DUXBURY, MASSACHUSETTS 02331-1768

TEL.: 781-934-0178 • FAX: 781-934-6499  
WWW.AMORYENGINEERS.COM



November 29, 2021

Hingham Planning Board  
210 Central Street  
Hingham, MA 02043

**Subject: 53 Kimball Beach Road, Site Plan**

Dear Planning Board Members:

This is to advise that we have reviewed the following documents, prepared by Merrill Engineers and Land Surveyors for the proposed raze and rebuild of a single family dwelling at the subject site:

- Existing Conditions Plan (1 sheet), dated November 8, 2021
- Site Plan (1 sheet), dated September 16, 2021
- Stormwater Management Report and Narrative to Accompany Site Plan Submittal, dated November 9, 2021

The purpose of our review has been to evaluate conformance with Hingham Zoning By-Laws (ZBL), and good engineering practice.

## **Background**

The project site is an 8,039 square foot (s.f.) parcel at 53 Kimball Beach Road. It is located within the Residence A zoning district. The property is currently developed with a single-family dwelling, shed, paved driveway, grass areas and some mature trees. The lot slopes from Kimball Beach Road to a low point at the northeast corner of the lot.

The proposal calls for razing the existing dwelling and construction of a new dwelling with an attached garage and a new cobblestone and asphalt driveway. Runoff from the front roof of the house would be conveyed to a subsurface infiltration system, consisting of plastic chambers surrounded by crushed stone, between the house and the road. Runoff from the rear portion of the house would be conveyed to a second subsurface infiltration system located behind the house. Runoff from the driveway would be collected in a yard drain and also conveyed to the subsurface infiltration system behind the house. The new dwelling would be served by connections to the existing utilities serving the existing dwelling. Proposed erosion controls will consist of a silt sock located along the property lines at the low end of the lot.

**Comments**

1. The proposed conditions HydroCAD calculations model the subsurface infiltration system behind the house as being 19.17 feet by 24 feet with twelve plastic chambers. However, the Site Plan shows the system to be 17.2 feet by 22 feet with nine chambers. The plan needs to be revised.
2. The proposed rim elevation of the yard drain appears to be incorrect. We believe it should be 38.2, not 39.2. The yard drain should also be specified and detailed on the Site Plan.
3. There appears to be inspection ports on the subsurface infiltration systems but they are not labeled. They should also be shown and specified on the cross section.
4. The test holes that have been excavated on site were not excavated deep enough to verify that there will be the required two feet of separation between seasonal high groundwater and the bottom of the subsurface infiltration systems. Deeper test pits are required.
5. We do not have the proposed architectural plans so we cannot confirm that the proposed piping shown for roof drains is sufficient to capture all downspouts.
6. No construction entrance is shown on the plans. The existing paved driveway could be utilized for a construction entrance.
7. Trees that will be removed should be identified on the Site Plan.
8. The proposed silt sock should be extended along the entire south (right) property line.

Please give us a call should you have any question.

Very truly yours,

AMORY ENGINEERS, P.C.

By:



Patrick G. Brennan, P.E.



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