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June 17, 2021

Hingham Planning Board
210 Central Street
Hingham, MA 02043

Subject: **180 Hersey Street, Site Plan**

Dear Planning Board Members:

This is to advise that we have reviewed the following documents pertaining to the proposed additions to the single family dwelling at the subject site:

- Site Plan (3 Sheets), dated May 22, 2021, prepared by Patriot Permitting & Engineering (PPE)
- Plan of Land (existing conditions plan), revised April 30, 2021, prepared by Hoyt Land Surveying
- Stormwater Report, dated June 7, 2021, prepared by PPE

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

Background

The project site consists of an 8,771 square foot (s.f.) parcel at 180 Hersey Street. It is located within the Residence A zoning district. There is an existing single-family dwelling with a patio, walkways, paved driveway, and a shed. The remainder of the lot is lawn. The lot slopes from Hersey Street to the woods at the rear of the property.

The proposal calls for construction of a 9.5 ft. by 22.1 ft. addition off the right (east) side of the dwelling, a 17.25 ft. by 14 ft. addition and a 24 ft. by 26 ft. garage off the off the back of the dwelling. A new paved driveway would extend around the right (east) side of the dwelling to access the proposed garage. The existing septic tank would need to be moved to provide the required setback from the addition. All other existing utilities would remain.

A shallow lawn basin would be constructed along the rear of the property to intercept and infiltrate runoff from the site. Runoff from the driveway would be routed through a sediment forebay with a sand filter to provide treatment before flowing into the shallow lawn basin. Proposed erosion controls will consist of a filter sock around the perimeter of the work area and a stabilized construction entrance in the vicinity of the existing driveway.

Comments

1. The drainage calculations indicate that the shallow lawn basin will fully infiltrate runoff from all storms up to and including the 100-year event. However, it does not appear that the entire proposed roof area has been accounted for in the post-development analysis. The proposed additional roof area of the garage and additions is about 1,075 s.f. but the post-development HydroCAD model only shows 348 s.f. of additional roof area. The post-development analysis needs to be revised to reflect the entire proposed roof area.

2. The Applicant should explain what will happen with the existing shed. It is located in the location of the proposed shallow lawn basin.

3. The Zoning Table on the Site Plan should include existing and proposed information (setbacks, areas, etc.).

4. We believe that the proposed erosion controls shown and detailed on the Site Plan along with implementation of the Erosion and Sediment Control Plan outlined on the Site Plan will adequately mitigate potential erosion of the site during construction activities.

Please give us a call should you have any question.

Very truly yours,

AMORY ENGINEERS, P.C.

By:

Patrick G. Brennan, P.E.

PGB