

AMORY ENGINEERS, P.C.

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May 19, 2021

Hingham Planning Board
210 Central Street
Hingham, MA 02043

Subject: **128 Hersey Street, Site Plan**

Dear Planning Board Members:

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

- Site Plan – Proposed Sewer Connection (1 sheet), revised May 19, 2021,¹ prepared by PVI Site Design, LLC (PVI)
- Response to comments letter from PVI dated May 18, 2021

The documents have been prepared to address comments contained in our April 27, 2021 letter to the Board. Below are our original comments in plain text followed by the current status of each in **bold text**.

1. Test pits are required at the proposed locations of the subsurface infiltration systems to verify soil textural analysis and depth to seasonal high groundwater. **Addressed – PVI conducted additional test pits and the results show adequate separation to groundwater and soil to be a fine sand which is consistent with the assumptions made in the design.**
2. The size of subsurface infiltration system 2 is not modeled correctly. It is modeled as having eight rows of six chambers (total 48) but the plan shows only seven rows of six chambers (total of 42). **Addressed – the plan now shows eight rows of six chambers for 48 total chambers.**
3. The inverts of the roof drain piping should be specified to verify that there will be adequate pitch to convey the roof runoff to the proposed subsurface infiltration systems. **Addressed – inverts for the roof drain piping is shown on the plan.**
4. The outlet invert of the header pipe for subsurface infiltration system 1 is listed at El. 66.0 on the Outlet Elevations table on the plan, but it should be at El. 67.5. **Addressed – the invert elevation has been corrected on the plan.**
5. A shallow swale or low berm should be provided along the property line of 122 Hersey Street to insure that runoff will flow toward the street and not onto the adjacent property. **Addressed – a 6-inch to 12-inch landscaped berm is now proposed parallel to the property line as suggested.**

¹ We had reviewed a plan revised May 18, 2021 and emailed PVI about a minor change, which is reflected on the May 19, 2021 plan.

6. The Applicant's engineer should explain what will be done with the ledge outcroppings because they are correctly modeled as impervious in the existing conditions calculations but they are modeled as pervious lawn in the proposed calculations. The post-development calculations should model them as impervious unless they are proposed to be completely removed. **Addressed – in the response, PVI states that the Applicant intends to remove the ledge to six inches below proposed finish grade to allow for grass cover.**
7. A stabilized construction entrance should be shown on the plan. **Addressed – a stabilized construction entrance is shown on the plan.**
8. The lot area of the subject parcel should be confirmed. It is listed as both 37,629 s.f. and 37,679 s.f. on the Existing Conditions Plan, 37,629 s.f. on the Proposed Sewer Connection plan and 37,680 s.f. on the ANR Plan. **In the response, PVI states that they checked with the land surveyor and the correct lot area is 37,680 s.f., which has been corrected on the Proposed Sewer Connection plan.**
9. The proposed dwelling and barn gross square footages should be corrected on the Zoning Table on the Proposed Sewer Connection plan. **Addressed – the areas have been revised in the Zoning Table accordingly.**
10. We note that there are proposed retaining walls at the rear of the property and a portion of one of the walls will be greater than four feet in height, which will require a building permit and engineered design. **Addressed – additional spot grades have been added to the plan along with a note specifying that walls are to be less than four feet high.**
11. There is an existing shallow well shown on the plan with a note stating that it is decommissioned and not in use. Documentation should be provided to verify that the well has been decommissioned in accordance with MassDEP and Board of Health requirements. **Addressed – in the response, PVI advises that the well was filled about 40 years ago and only the raised stone ring remains. This was also discussed in the May 10, 2021 public hearing.**

Please give us a call should you have any question.

Very truly yours,

AMORY ENGINEERS, P.C.

By:



Patrick G. Brennan, P.E.

