



SPRUHAN ENGINEERING

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November 7, 2023

From: Edmond Spruhan, P.E.

To:
Hingham Planning Board
210 Central Street
Hingham, MA 02043

Re: 8 Elizabeth Lane, Site Plan

Spruhan Engineering received the comments sent by PGB ENGINEERING, regarding the civil plan for the project located at 8 Elizabeth Lane, Hingham, MA. This letter provides responses to said comments.

Comments

1. The proposed subsurface infiltration system is only about 6.5 feet off the septic soil absorption system. SMS requires that infiltration facilities be setback a minimum of fifty feet from soil absorption systems and Title 5 requires a minimum twenty-five-foot setback. The proposed impervious barrier around the subsurface infiltration system will not provide adequate protection for the soil absorption system. The subsurface infiltration system should be relocated to the western corner of the property to provide the required setbacks. The Applicant's engineer could also model the permeable paver driveway as an infiltration system, which would reduce the required size of the subsurface infiltration system.

SE: The infiltration system was relocated.

2. Inspection and maintenance of the subsurface infiltration system and the permeable paver driveway should be specified.

SE: Operation and maintenance plan was revised and will be submitted with this memo.

3. The rainfall distribution utilized in the HydroCAD models should be the NRCC Hingham, MA rainfall, not the Middlesex County Central Area rainfall. A copy of those rainfall events is attached.

SE: The rainfall depth has been updated in the HydroCAD model using the provided rainfall events, the stormwater report was updated accordingly.

4. *The location of the test hole should be shown on the Civil Plan.*

SE: Test hole location was added to the plan.

5. *Proposed underground electric and communication utilities should be shown on the Civil Plan.*

SE: Electric and communication utilities have been added to the plan.

6. *General Note 12 on the Civil Plan specifies an 8-inch gravel base, a 1.5-inch binder course and 1-inch wear course of pavement for patching utility trenches. The minimum thickness should be 12-inches of gravel, 2.5-inches of binder and 1.5-inches of wearing course pavement.*

SE: The note was revised as requested.

7. *A zoning table should be included on the plans showing required, existing and proposed dimensional requirements (ZBL §I-1.5.e).*

SE: Zoning table was added to the plan.

8. *The Tree Yard should be shown on the plans along with a) any protected tree that is proposed to be removed and b) tree protection measures (ZBL §I-1.5.h).*

SE: A landscape plan will be provided by the applicant showing trees to be removed and tree protection measures.

9. *The Civil Plan shows a proposed mitigation planting area in the southern corner of the lot with a note stating “see ‘Ecotec’ project narrative for more details.” This is not shown on the Landscape Plan and no Ecotec project narrative was submitted with the Application materials.*

SE: The applicant will submit the narrative.

I hope that this information is helpful to you. Please do not hesitate to call with any questions.

Respectfully submitted,

Edmond Spruhan

T. Edmond Spruhan