

AMORY ENGINEERS, P.C.

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May 16, 2019

Hingham Planning Board
210 Central Street
Hingham, MA 02043

Subject: **103-107 South Street – Site Plan Review**

Dear Board Members:

This is to advise that we have reviewed the following documents pertaining to a Site Plan Review for a newly paved parking lot at the subject property:

- Letter from Morse Engineering Company, Inc. to the Planning Board, dated May 15, 2019, with the following attachments:
 - Figure 1 – Watershed Delineation
 - Figure 2 – Grass Depression Detail
 - Figure 3 – SCS Soils Map
 - HydroCAD calculations (100-year storm event)

The documents have been prepared to address comments contained in our April 30, 2019 letter to the Board. Below are the comments from our April 30th letter in plain text followed by the current status of each in **bold text**.

1. We recommend that Mr. McKee secure written permission from Mr. Bunstein which will legally allow for the discharge of stormwater runoff onto the Bunstein property from the 103-107 South Street property. **It is stated in the Morse letter that documentation will be submitted under separate cover prior to the May 21, 2019 Planning Board meeting.**
2. We agree that the proposed bituminous berm along the west edge of the parking lot will prevent parking lot runoff from flowing onto the 5 Forget Me Not Lane Property. However, we note that runoff will likely continue to pool on the 5 Forget Me Not Lane property because that property is sloped from the road to the rear of the property and all runoff from that property, including the roof of the dwelling will continue to flow to that low point. **Informational – no response required.**
3. We believe that the proposed bituminous berm should be extended to the south so that it runs along the entire west edge of the parking lot. During our onsite meeting we discussed additional work that would prevent parking lot runoff from flowing onto the 115 South Street property. It was agreed that a combination of an earthen berm along the property line and a depression on the 103-107 South Street property would prevent runoff from flowing from the parking lot onto the 115 South Street property. We also suggested installation of a crushed stone trench in the depression to assist with infiltration during frozen ground conditions. **Addressed – Figure 1 shows 1) the bituminous berm along**

the entire west edge of the parking lot, 2) an earthen berm south of the pavement, parallel to the 115 South Street property line and, 3) a grass depression with crushed stone trench¹ on the subject property². The HydroCAD calculations indicate that the proposed depression will fully contain/infiltrate runoff from the tributary portion of the 103-107 South Street property during the 100-year storm event.

4. We also believe that the proposed bituminous berm should be extended about six feet to the east along the northern property line to direct runoff to an existing low area which channels runoff across the Bunstein property. This would prevent runoff from flowing around the northern end of the bituminous berm onto the 5 Forget Me Not Lane property. **Addressed – Figure 1 shows the bituminous berm as suggested.**
5. There is an existing downspout located at the northwest corner of the 105 South Street building which appears to discharge runoff from about eighty percent (80%) of the roof of the 103-107 South Street building. We understand that the downspout will be relocated and the gutter slope changed so that the discharge of roof runoff will be more centrally located on the 103-107 South Street property. This will direct the roof runoff in a northerly direction rather than flowing to the proposed bituminous berm and then north along the berm. This would be an improvement over current conditions. **Addressed – it is stated in the Morse letter that the downspout has been relocated as described.**

With implementation of the improvements shown on Figure 1 we believe that runoff from Mr. McKee's property will not flow onto the properties of the abutters at 5 Forget Me Not Lane and 115 South Street.

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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¹ The berm, depression and crushed stone trench are detailed on Figure 2.

² We understand that the Parking Plan, by Mr. Edward T Eisenhaure, P.E., P.L.S. will be revised to reflect the changes shown on Figure 1.