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July 12, 2023 - Revised

RECEIVED

By Bourne Health Department at 1:46 pm, Jul 12, 2023

Hand Delivery & Email [tguarino@townofbourne.com]

Bourne Board of Health
Terri Guarino, RS, CHO
24 Perry Avenue
Bourne, MA 02532

**RE: Bourne Board of Health Variance Request – Proposed Septic Upgrade
435 Circuit Avenue (Map 43.3 Parcel 168)**

Dear Members of the Board:

On behalf of the owners/applicants, Paul H. Stenberg & Madeline K. Stenberg, please accept this letter as a request for the following variances to 310 CMR 15.00 (Title 5) & the Town of Bourne Health Regulations for a proposed septic installation at the above referenced property. We request the following variances:

- **310 CMR 15.405(1)(a) – A 5'± divergence from full compliance is requested for a 5'± setback from a property line (Pequot Avenue) to a soil absorption system.**
- **310 CMR 15.405(1)(a) – A 2'± divergence from full compliance is requested for a 8'± setback from a property line (#425 Circuit Avenue) to a soil absorption system.**
- **310 CMR 15.405(1)(a) – A 2'± divergence from full compliance is requested for a 8'± setback from a property line (#425 Circuit Avenue) to a septic tank.**
- **310 CMR 15.405(1)(b) – A 3'± divergence from full compliance is requested for a 7'± setback from an abutting foundation (#435 Circuit Avenue) to a soil absorption system.**
- **A 76'± variance is requested from the Bourne Board of Health Regulations for a 74'± setback from a proposed soil absorption system to the top of a Coastal Bank.**

The proposed project includes the raze and rebuild of an existing single family dwelling and Title V septic upgrade. No records of the existing septic system are on file at the Bourne Health Office. The site contractor is to locate and abandon the existing system in accordance with 310 CMR 15.532. If the system is found to be in conflict with the proposed work, it shall be removed. The proposed septic system is an Innovative/Alternative (I/A) septic system, consisting of a MicroFAST 0.5 Unit, and a Cur-Tech “Good-Flow soil absorption system. The total number of bedrooms on the property is being reduced from 5 to 4. The bedroom reduction, employment of I/A technology results in a benefit to the environment by reducing the nitrogen loading from 19.8 ppm to 10.93 ppm or 44%.

Bracken Engineering, Inc. is requesting that the Bourne Board of Health diverge from the goal of full compliance by allowing the variance requested above. The above variances are being made because of the relatively small lot and its proximity to adjacent resource areas. Due to the proximity of the abutting dwelling to the proposed system, relief is being sought for a setback reduction the foundation. An impervious liner will be installed along the property line. The design provides the best treatment within the borders of the lot and confines of the existing resource areas.



Thank you for your time and consideration on this matter. We look forward to reviewing this project with the Board of Health at the July 12th Public Hearing. Should you have any questions regarding this project or require any further information please contact the undersigned at either 508-833-0070 or zac@brackeneng.com

Sincerely,

BRACKEN ENGINEERING, INC.

A handwritten signature in blue ink, appearing to read 'Zachary L. Basinski', written over a horizontal line.

Zachary L. Basinski, P.E., CFM
Senior Project Manager

A handwritten signature in red ink, appearing to read 'Jason P. Heyer', written over a horizontal line.

Jason P. Heyer, CFM
Project Designer