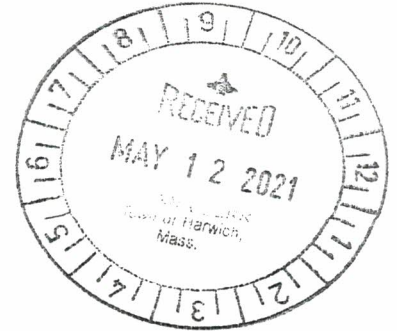


TOWN OF HARWICH



BOARD OF HEALTH
732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us



TOWN OF HARWICH BOARD OF HEALTH
TUESDAY, MAY 18-6:30 P.M.
HARWICH TOWN HALL – REMOTE MEETING

As required by law, the Town may audio or video record this meeting. Any person intending to either audio or video record this open session is required to inform the Chair

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

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- I **CALL TO ORDER**
- II **MINUTES OF PREVIOUS MEETING (Regular Meeting Minutes)** April 20, 2021 & May 6, 2021
Minutes shall be reviewed; proposed changes shall be possible; and a vote to approve with any noted changes shall be taken.
- III **6:30 PM - BOARD OF HEALTH WORK SESSION**
 - A. **COVID-19 Update-** *Vote to accept/deny/take this under consideration*
- IV **OLD/UNFINISHED BUSINESS** (No earlier than 7:00 p.m.)- *Vote to accept/deny/take this under consideration*
- V **NEW BUSINESS**
 - A. **Hearing-Popkiewicz/McGann, 8 Ruth Lane**, to consider a variance request to upgrade a Title 5 septic system. Plan prepared by JC Engineering, Inc. *Vote to accept/deny/take this under consideration*
Variances from 310 CMR 15.211-Minimum Setbacks
 - 1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 1' from the front property line where 10' is required. Variance request of 9'.

2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 18.3' from the existing housing foundation where 20' is required. Variance request of 1.7'.
Variance from Harwich Board of Health Regulation 1.210
 1. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 80.6' from the wetland where 100' is required. Variance request of 19.4'
- B. Hearing-Crooks, 18 Bob White Lane**, to consider a variance request to upgrade a Title 5 septic system. Plan prepared by Dan A. Speakman Construction. *Vote to accept/deny/take this under consideration*
Variances from 310 CMR 15.211-Minimum Setbacks
1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 14' from the foundation where 20' is required. Variance request of 6'.
 2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 6' from the property line where 10' is required. Variance request of 4'.
Variances from Harwich Board of Health Regulation 1.210
 1. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 56' from the top of coastal bank where 100' is required. Variance request of 54'.
 2. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 54' from the top of coastal bank where 100' is required. Variance request of 56'.
 3. Per Harwich Board of Health Regulation 1.210: To allow the proposed pump chamber to be 48' from the top of coastal bank where 50' is required. Variance request of 2'.
 4. Per Harwich Board of Health Regulation 1.210: To allow the septic tank to be 39' from the top of coastal bank where 50' is required. Variance request of 11'.
 5. Per Harwich Board of Health Regulation 1.210: To allow the proposed septic tank to be 37' from the top of coastal bank where 50' is required. Variance request of 13'.
- C. Hearing-Reis, 4 Eastern Avenue**, to consider a variance request to upgrade a Title 5 septic system. Plan prepared by Moran Engineering Associates, LLC. *Vote to accept/deny/take this under consideration.*
Variances from 310 CMR 15.211(1)-Minimum Setbacks
1. Per 310 CMR 15.211: To allow the proposed septic tank to be 5' from the East lot line where 10' is required. Variance request of 5'.
 2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the East lot line where 10' is required. Variance request of 5'.
 3. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the North lot line where 10' is required. Variance request of 5'.
 4. Per 310 CMR 15.211: To allow the proposed septic tank to be 5' from the crawl space where 10' is required. Variance request of 5'.
 5. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the slab foundation where 10' is required. Variance request of 5'.
Variances from Harwich Board of Health Regulation 1.210
 1. Per Harwich Board of Health Regulation 1.210: To allow the proposed septic tank to be 36' from the coastal bank where 50' is required. Variance request of 12'.
 2. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 60' from the coastal bank where 100' is required. Variance request of 40'.
- D. Hearing-Henriksen, 17 Eastern Avenue**, to consider a variance request to upgrade a Title 5 septic system. Plan prepared by Meyer & Sons, Inc. *Vote to accept/deny/take this under consideration.*
Variance from 310 CMR 15.211-Minimum Setbacks
1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 10'3 from the dwelling where 20' is required. Variance request of 9.7'. (liner provided)
 2. Per 310 CMR 15.221(7): To allow the proposed soil absorption system to be 3.67' below grade where 3' is required. Variance request of 0.67'. (vent/h-20 load provided)

VI CORRESPONDENCE- *Vote to accept/deny/take this under consideration*

VII PERMITS- *Vote to accept/deny/take this under consideration*

ESTABLISHMENT	ADDRESS	TYPE	TYPE	TYPE	TYPE
SEPTIC INSTALLER					
Cardinal Construction *					
Earth & Stone, LLC *					
Peter J. Govoni Land Services (2021 NEW)					
PKM Contractors *					
R.A. Spiller, Inc. (2021 NEW)					
STABLE					
Catherine Karras *	105 Round Cove Road	Residential			
FOOD SERVICE					
711 Food Mart (2021 NEW)	711 Main Street	Retail: Less than 5000 sf	1-30 seats	milk & cream	take out
Cape Cod Macarons (2021 NEW)	11 Katie's Pond Lane	Limited Food Service			
Cape Farm Supply & Cranberry Co *	1601 Factory Road	Limited Food Service			
Georges Place Fish Market *	30 Kildee Road	Retail: Less than 5000 sf	Shucking License	Take Out	
Good Times Cape Cod *		Mobile Food Service			
Inn on the Beach (2021 NEW OWNER)	16 Bank Street	Limited Food Service			
Judecraft Specialty Foods *		Event Permit			
Monopati *		Event Permit			
Perks *	545 Route 28	31-60 seats			
Schoolhouse Ice Cream *	749 Route 28	1-30 seats	Frozen Dessert		
Stone Horse Yacht Club *	2 Harbor Road	1-30 seats			
Villa Roma *	278 Route 28	31-60 seats			
POOL					
Red River Condo Association *	1011 Route 28				
Seascapes Village Condo *	231 Route 28				
Tern Inn, The *	91 Chase Street				
Wychmere Beach Club *	23 Snow Inn Road	Spa			
Wychmere Beach Club *	23 Snow Inn Road	Toddler Pool			
Wychmere Beach Club *	23 Snow Inn Road	Young Adult Pool			
Wychmere Beach Club *	23 Snow Inn Road	Main Pool			
Wyndemere Condo *	405 Lower County Road				
SEPTIC HAULER					
PKM Contractors *					
BATHING BEACH					
Inn on the Beach (2021 NEW OWNER)	16 Bank Street	Nantucket Sound			
Winstead Inn & Beach Resort *	4 Braddock Street	Nantucket Sound			
MOTEL					
Inn on the Beach (2021 NEW OWNER)	16 Bank Street				
FUNERAL DIRECTOR					
Doane, Beal & Ames *	260 Route 28				
*2021 Renewal					

VIII OTHER- *Vote to accept/deny/take this under consideration*

IX ADJOURN- *Vote to accept/deny/take under consideration*

Authorized posting officer:

Posted by:

Jennifer Clarke

Paula West

Signature

Date

Town Clerk

Date

5/12/2021

Per the Attorney General's Office: The committee may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business." If you are deaf or hard of hearing or a person with a disability who requires an accommodation, contact the Selectmen's Office at 508-430-7513

TOWN OF HARWICH



BOARD OF HEALTH

732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

**TOWN OF HARWICH BOARD OF HEALTH
TUESDAY, APRIL 20, 2021-6:30 P.M.
HARWICH TOWN HALL – REMOTE MEETING**

BOARD OF HEALTH MEMBERS PRESENT: Chairwoman Pamela Howell, R.N., Member Ronald Dowgiallo, Member Matthew Antoine & Member Kevin DuPont, R.N.

BOARD OF HEALTH MEMBERS ABSENT: Vice Chairwoman Sharon Pflieger

STAFF MEMBERS PRESENT: Health Director Kathleen O’Neill & Executive Assistant Jennifer Clarke

Pursuant to Governor Baker’s March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor’s March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

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I CALL TO ORDER

Ms. Howell called the meeting to order at 6:30 p.m.

II MINUTES OF PREVIOUS MEETING (Regular Meeting Minutes) – March 16, 2021

Mr. Dowgiallo moved to approve the minutes of the March 16, 2021 meeting, 2nd by Mr. Antoine. The vote was 3-0-0 with Ms. Howell, Mr. Dowgiallo and Mr. Antoine all voting aye by roll call.

III 6:30 PM - BOARD OF HEALTH WORK SESSION

Mr. DuPont arrived at 6:36 p.m.

A. COVID-19 Update

Health Director O'Neill reviewed the COVID-19 updates that were provided in the Board's packet.

Mr. Dowgiallo asked what the average age of COVID-19 positive people are. Health Director O'Neill responded that the average age is 38.

B. Staffing Update

Health Director O'Neill reported that the Health Department is very fortunate to have Mark Polselli back in the office on a temporary basis to help with Title 5 Inspection reviews, septic inspections and witnessing perc tests.

IV NO EARLIER THAN 7:00 PM -OLD/UNFINISHED BUSINESS

No old/unfinished business was discussed.

V NEW BUSINESS

- A. Hearing-Rose, 44 Pine Grove Road-** to reconsider Order of Conditions granted on October 29, 1996-There is to be no increase of square footage beyond that shown on a plan dated October 14, 1996. The applicant is requesting removal of square footage limitation to allow for finished attic bedroom and deconstruction of dining room wall to eliminate 1 bedroom downstairs to maintain 3 bedroom compliance.

Chairwoman Howell opened the hearing. Randy Rose was present remotely. Mr. Rose is applying for a reconsideration of a previous condition placed on October 29, 1996. The condition reads "there is to be no increase of square footage beyond that shown on a plan dated October 14, 1996". Mr. Rose is requesting removal of the square footage limitation to allow for the existing finished attic bedroom and deconstruction of dining room wall to eliminate one (1) bedroom downstairs to maintain three (3) bedroom compliance. The Health Department received a Title 5 inspection report on March 1, 2021 which included a floor plan showing that the attic space had been finished without benefit of a permit and that the attic contains built-in beds and affords privacy. The septic system for this property is not adequate to support four (4) bedrooms.

On March 25, 2021, Mr. Rose applied for an after the fact building permit application for the finish work in the attic including knee walls, insulation, minor electrical, drywall and paint work. The permit application also includes the request to remove the wall between bedroom three (3) and the dining room to maintain a total of three (3) bedrooms in the dwelling.

Health Director O'Neill reviewed the conditions that were on the 1996 approval.

No public comment was heard.

Chairwoman Howell closed the hearing.

Health Director O'Neill recommended approval of the request with the following conditions:

1. No further expansion of square footage and habitable space is allowed without further review by the Board of Health.
2. The dwelling is restricted to a maximum of three (3) bedrooms.
3. The reconsideration approval shall be recorded at the Barnstable County Registry of Deeds.
4. All previous conditions apply.

Mr. Antoine moved to accept the recommendation of the Health Director, 2nd by Mr. DuPont. The vote was 4-0-0 with Ms. Howell, Mr. Dowgiallo, Mr. Antoine & Mr. DuPont all voting aye by roll call.

- B. 351 Pleasant Lake Avenue/Cape Cod Regional Technical High School-** on behalf of Cape Cod Regional Technical High School, Garcia, Galuska & DeSousa is requesting Board of Health review and support of an application to the State Plumbing Board for a variance from the State Plumbing Code: Relief to building toilet facilities with 50% of the required water closet fixtures. They request that the proposed athletic field bathrooms be allowed to be constructed with a total of 4 female water closets, 2 male water closets, 2 male urinals and 2 lavatories per sex.

Chairwoman Howell opened the hearing. Chris Garcia from Garcia, Galuska & DeSousa was present. On behalf of the Cape Cod Regional Technical High School, Garcia, Galuska & DeSousa is applying for a variance from the State Plumbing Code: Relief to building toilet facilities with 50% of the required water closet fixtures. They request that the proposed athletic field bathrooms be allowed to be constructed with a total of 4 female water closets, 2 male water closets, 2 male urinals and 2 lavatories per sex. The stadium and facilities are seasonal and would not be open during the winter months. There will be no alcohol consumed on site. Mr. Garcia stated that his is a very typical variance request and is seeking the Board's support.

No public comment was heard.

Chairwoman Howell closed the public hearing.

Health Director O'Neill recommended that the Board move to support the request for a variance from the Massachusetts Plumbing Code 248 CMR 10.10(7)(c)4 at 351 Pleasant Lake Avenue/Cape Cod Regional Technical High School.

Mr. Antoine moved to accept the recommendation of the Health Director, 2nd by Mr. DuPont. The vote was 4-0-0 with Ms. Howell, Mr. Dowgiallo, Mr. Antoine & Mr. DuPont all voting aye by roll call.

VI REPORT OF THE HEALTH DIRECTOR- MARCH 2021

No report of the Health Director was discussed.

VII CORRESPONDENCE

- A. Massachusetts Department of Environmental Protection Drinking Water Program-2020 Consumer Confidence Report Certification**

Health Director O'Neill briefly reviewed the correspondence provided in the Board's packet.

VIII PERMITS

ESTABLISHMENT	ADDRESS	TYPE	TYPE
FOOD SERVICE			

A & W Restaurant	297 Route 28	61-150 seats	Frozen Dessert
Belmont Condo Trust *	1 Belmont Road	61-150 seats	
Hot Stove at Cranberry Valley *	183 Oak Street	31-60 seats	
Sundae School *	606 Route 28	31-60 seats	Frozen Dessert
Sweet Daisies *		Event Permit	
Sweet Izzy *	296 Route 28	Frozen Dessert	
The Tern Inn (NEW OWNERS 2021)	91 Chase Street	1-30 seats	
Weatherdeck Restaurant *	168 Route 28	61-150 seats	
Wequassett-Main Kitchen *	2173 Route 28	>150 seats	
Wequassett-Pavillion *	2173 Route 28	61-150 seats	
Wequassett-Outer Bar & Grill *	2173 Route 28	61-150 seats	
Wequassett-Tennis Grille *	2173 Route 28	1-30 seats	
Wychmere Harbor Functions- Café *	23 Snow Inn Road	61-150 seats	
Wychmere Harbor Functions- Clubhouse *	23 Snow Inn Road	>150 seats	
MOTEL			
A Beach Breeze Inn *	169 Route 28		
Cape Cod Wishing Well *	212 Route 28		
Commodore Inn *	30 Earle Road		
Inn on the Beach *	16 Bank Street		
Old Harwich Lodgings *	40-44 Route 28		
TITLE 5 INSPECTOR			
Adam Riker *			
Dave Perry *			
Winston Steadman *			
BATHING BEACH			
Allen Harbor Beach Assoc. *	0 Dunes Road	Nantucket Sound	
Belmont Condo Trust *	1 Belmont Road	Nantucket Sound	
Inn on the Beach *	16 Bank Street	Nantucket Sound	
Old Mill Point Association *	along Strandway	Nantucket Sound	
Old Mill Point Association *	end of Seaway	Nantucket Sound	
Sandy Shore Association *	Sandy Shore Way	Aunt Edies Pond	
Stone Horse Yacht Club *	2 Harbor Road	Nantucket Sound	
Town of Harwich Recreation Dept. *	Atlantic Ave Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Bank Street Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Brooks Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	end of Bucks Pond Road	Bucks Pond	
Town of Harwich Recreation Dept. *	Earle Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Grey Neck Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Hinkleys Pond at Route 124	Hinkleys Pond	
Town of Harwich Recreation Dept. *	Long Pond at Cahoon Street-Long Pond 1	Long Pond	
Town of Harwich Recreation Dept. *	Long Pond at Long Pond Drive-Long Pond 2	Long Pond	
Town of Harwich Recreation Dept. *	Long Pond at Route 124-Long Pond 3	Long Pond	
Town of Harwich Recreation Dept. *	Merkel Beach	Nantucket Sound	

Town of Harwich Recreation Dept. *	Neel Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Pleasant Bay at Route 28	Pleasant Bay	
Town of Harwich Recreation Dept. *	Pleasant Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Red River Beach-East	Nantucket Sound	
Town of Harwich Recreation Dept. *	Red River Beach-Middle	Nantucket Sound	
Town of Harwich Recreation Dept. *	Red River Beach-West	Nantucket Sound	
Town of Harwich Recreation Dept. *	Robbins Pond at Cahoon Landing	Robbins Pond	
Town of Harwich Recreation Dept. *	Sand Pond at Great Western Road	Sand Pond	
Town of Harwich Recreation Dept. *	Sea Breeze Avenue Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Sea Street Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Seymore Pond at Route 124	Seymoure Pond	
Town of Harwich Recreation Dept. *	Skinequit Pond at Ocean Street	Skinequit Pond	
Town of Harwich Recreation Dept. *	Wah Wah Taysee Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Wyndemere Bluffs Road Beach	Nantucket Sound	
Town of Harwich Recreation Dept. *	Zylpha Road Beach	Nantucket Sound	
Wychmere Beach Club *	23 Snow Inn Road	Nantucket Sound	
POOL			
Belmont Condo Trust *	1 Belmont Road		
Commodore Inn *	30 Earle Road		
Wequassett Resort *	2173 Route 28	Spa Room 20	
Wequassett Resort *	2173 Route 28	Spa Room 12	
Wequassett Resort *	2173 Route 28	Spa Room 18	
Wequassett Resort *	2173 Route 28	Spa Room 10	
Wequassett Resort *	2173 Route 28	Main Pool	
Wequassett Resort *	2173 Route 28	Main Pool Spa	
Wequassett Resort *	2173 Route 28	Lap Pool	
Wequassett Resort *	2173 Route 28	Spa Room 46	
Wequassett Resort *	2173 Route 28	Spa Room 44	
Wequassett Resort *	2173 Route 28	Lap Pool Spa	
SEPTIC INSTALLER			
Aaron Gingras *			
Macura Excavating *			
FUNERAL DIRECTOR			
Chapman Funerals & Cremations *	678 Main Street		
*2021 Renewal			

Mr. Dowgiallo moved to approve the permits as presented, 2nd by Mr. DuPont. The vote was 4-0-0 with Ms. Howell, Mr. Dowgiallo, Mr. Antoine & Mr. DuPont all voting aye by roll call.

IX OTHER

The Board was presented with the Town of Harwich Fertilizer and Nutrient Control Regulation educational pamphlet that was created by Health Department staff. The pamphlet and copies of the regulation have been delivered to local retailers. The pamphlet was mailed to local landscape

companies. Health Director O'Neill stated that enforcement for the first year of the regulation will be to educate the public.

X ADJOURN

Mr. Antoine moved to adjourn the meeting at 7:11 p.m., 2nd by Mr. Dowgiallo The vote was 4-0-0 with Ms. Howell, Mr. Dowgiallo, Mr. Antoine & Mr. DuPont all voting aye by roll call.

Respectfully Submitted,

Jennifer Clarke

Next meeting is Tuesday, May 18, 2021 at 6:30 p.m.

Documents included in April 20, 2021 Board of Health Meeting Packet:

- April 20, 2021 Board of Health Agenda
- Draft Board of Health Minutes dated March 16, 2021
- COVID-19 update dated April 9, 2021
- COVID-19 update dated April 2, 2021
- COVID-19 update dated March 12, 2021
- COVID-19 update dated March 22, 2021
- COVID-19 update dated March 26, 2021
- Site Summary for 44 Pine Grove Road dated April 20, 2021
- Application for Board of Health Variances and associated documents for 44 Pine Grove Road dated April 7, 2021
- Site Summary for 351 Pleasant Lake Avenue dated April 20, 2021
- Request for Board of Health Hearing for 351 Pleasant Lake Avenue dated April 1, 2021
- Variance from State Plumbing Code Application and associated plans for 351 Pleasant Lake Avenue dated April 1, 2021
- Massachusetts Department of Environmental Protection Consumer Confidence Report Certification dated March 31, 2021
- Town of Harwich Fertilizer and Nutrient Control Regulation Educational Pamphlet
- Any other documents submitted for/at the April 20, 2021 Board of Health meeting

TOWN OF HARWICH



BOARD OF HEALTH

732 Main Street Harwich, MA 02645

508-430-7509 – Fax 508-430-7531

E-mail: health@town.harwich.ma.us

**TOWN OF HARWICH BOARD OF HEALTH
THURSDAY, MAY 6, 2021-3:00 P.M.
HARWICH TOWN HALL – REMOTE MEETING**

BOARD OF HEALTH MEMBERS PRESENT: Chairwoman Pamela Howell, R.N., Vice Chairwoman Sharon Pflieger, Member Ronald Dowgiallo, D.M.D., & Member Matthew Antoine

BOARD OF HEALTH MEMBERS ABSENT: Member Kevin DuPont, R.N.

STAFF MEMBERS PRESENT: Health Director Kathleen O’Neill & Executive Assistant Jennifer Clarke

Pursuant to Governor Baker’s March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor’s March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order.

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I CALL TO ORDER

Ms. Howell called the meeting to order at 3:04 p.m. The vote was 4-0-0 with Ms. Howell, Ms. Pflieger, Mr. Dowgiallo & Mr. Antoine all voting aye by roll call.

II REVIEW THE EXISTING MANDATORY MASK ZONE ORDER- to consider modifying, lifting or keeping in place the existing Declaration of Public Health Emergency Order-mandatory mask zone order adopted on July 21, 2020, which states that any member of the public utilizing Route 28 between Lower

County Road and Bank Street between 9am-10pm, must wear a face covering at all times over their nose and mouth and must exercise social distancing, whenever possible.

On Friday, April 23, 2021, Governor Baker announced that the face covering order has been relaxed for some outdoor settings in Massachusetts. On July 21, 2020, the Board of Health adopted a Declaration of Public Health Emergency Order which read "any member of the public utilizing Route 28, between Lower County Road and Bank Street between 9am-10pm, must wear a face covering at all times over their nose and mouth and must exercise social distancing, whenever possible, in accordance with Governor Bakers Order, dated May 1, 2020, effective May 6, 2020, Order requiring face covering in public places where social distancing is not possible."

Tonight's discussion is for the Board to decide if they want to uphold the order, modify or rescind it.

Mr. Dowgiallo commented that the Board might want to uphold the order and see what happens next month.

Ms. Pflieger stated that she agrees with Mr. Dowgiallo. With people coming to Harwich as vacationers, we do not know who has been vaccinated or not, nor can we ask. It can be hard to social distance in the Town itself when you are walking on the streets.

Ms. Howell stated that she would like to see the mask zone order upheld for the time being.

Health Director O'Neill informed the Board that they could review the order on a month by month basis, and that we could put it on the June 15, 2021 Board of Health agenda for further review and discussion.

Ms. Howell asked how the mask order will be enforced. Health Director O'Neill responded that enforcement will be the same as last year. We do not currently have a COVID-19 enforcement officer, but we are hoping that Barnstable County will be able to provide one as they did last year.

Ms. Pflieger asked if signage will be posted in the Harwich Port area. Staff responded that the signs would be re-lettered and put out sometime next week.

Ms. Pflieger moved that the Board of Health keep in place the existing Declaration of Public Health Emergency Order-mandatory mask zone order adopted on July 21, 2020, which states that any member of the public utilizing Route 28 between Lower County Road and Bank Street between 9am-10pm, must wear a face covering at all times over their nose and mouth and must exercise social distancing, whenever possible, 2nd by Mr. Antoine. The vote was 4-0-0 with Ms. Howell, Ms. Pflieger, Mr. Dowgiallo and Mr. Antoine all voting aye by roll call.

III OTHER

Last year, the Board of Health amended their mask mandate to include the requirement of face coverings at Town Meeting. Face coverings were required, but could be removed when people were seated and sitting 6' from others who do not live in their household. The Board agreed with a general consensus that the same order would remain in effect for the May 8, 2021 Town Meeting.

IV ADJOURN

Ms. Pflieger moved to adjourn the meeting at 3:13 p.m., 2nd by Mr. Dowgiallo. The vote was 4-0-0 with Ms. Howell, Ms. Pflieger, Mr. Dowgiallo and Mr. Antoine all voting aye by roll call.

Respectfully Submitted,

Jennifer Clarke

Next meeting is Tuesday, May 18, 2021 at 6:30 p.m.

Documents included in May 6, 2021 Board of Health Meeting Packet:

- May 6, 2021 Board of Health Agenda
- Declaration of Public Health Emergency Order dated July 21, 2020
- COVID-19 update dated April 29, 2021
- COVID-19 update dated April 23, 2021
- Any other documents submitted for/at the May 6, 2021 Board of Health meeting



**Town of Harwich
Board of Health**
732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

May 7, 2021

WEEKLY COVID-19 UPDATE

CASES & STATISTICS

To date, Harwich has seen a cumulative total of 751 cases of COVID-19. We are currently following 10 active cases. The positivity rate has dropped to 3.02%, which still leaves us in the “Yellow” designation. Over the last two weeks the Town has seen 25 positive tests out of total 827 tests.

VACCINE

To date, 6,639 of our 12,591 full time residents are fully vaccinated, and 8,672 have received at least one dose.

Age Group	Population Size	Individuals with at least one dose	Fully vaccinated individuals
0-19 Years	1,993	221	63
20-29 Years	1,055	537	279
30-49 Years	2,146	1,505	945
50-64 Years	3,012	2,341	1,684
65-74 Years	2,551	2,234	2,027
75+ Years	1,834	1,834	1,641
Total	12,591	8,672	6,639

To find a vaccine appointment please visit <https://vaxfinder.mass.gov/>.

BOARD OF HEALTH UPDATE

On Thursday May 6, 2021 the Board of Health voted to uphold the existing mask mandate. The order states: *Any member of the public utilizing Route 28, between Lower County Road and Bank Street between 9 am and 10 pm, must wear a face covering at all times over their nose and mouth and must exercise social distancing, whenever possible.* The Board will continue to discuss this order at their regularly scheduled meetings.

A-III

STATE UPDATE

Effective on May 10, Massachusetts will reopen some outdoor Phase 4, Step 2 industries:

- Large venues such as indoor and outdoor stadiums, arenas and ballparks currently open as part of Phase 4, Step 1 at 12% will be permitted to increase capacity to 25%.
- The Commonwealth will reopen some outdoor Phase 4, Step 2 industries including amusement parks, theme parks and outdoor water parks that will be permitted to operate at a 50% capacity after submitting safety plans to the Department of Public Health.
- Road races and other large, outdoor organized amateur or professional group athletic events will be permitted to take place with staggered starts after submitting safety plans to a local board of health or the DPH.
- Youth and adult amateur sports tournaments will be allowed for moderate and high risk sports.
- Singing will also be permitted indoors with strict distancing requirements at performance venues, restaurants, event venues and other businesses.

TESTING

For free testing at Outer Cape Health, please call [508-905-2888](tel:508-905-2888) to make an appointment. Barnstable County offers FREE COVID-19 testing at the Barnstable County Fairgrounds Tuesdays 10:00 AM – 12:00 PM and Fridays 10:00 AM – 12:00 PM. Call to make an appointment 774-330-3002 – or take 1 minute and schedule online at <https://bit.ly/3doeaH5>

Testing is still available in other locations 7 days per week through Cape Cod Healthcare. Call the Community Testing Line at [508-534-7103](tel:508-534-7103) to make an appointment.

REMINDER

Please continue to maintain social distancing, mask use, and good hand hygiene. We need to work together as a community to minimize the spread!

Stay Safe!

~Dr. O'Neill

Health Director

5/6/2021: Barnstable County Regional COVID-19 Update

****Attached is information on vaccination coverage by town by age bracket for BARNSTABLE, DUKES, AND NANTUCKET COUNTIES****

Good Morning All.

New Cases: DPH new cases reported yesterday:

Barnstable County:	19 new cases;
Martha's Vineyard:	4 new cases;
Nantucket:	3 new cases;

Hospitalizations and Fatalities: 3-day avg. hospitalization (now **9**) is greatly reduced from the Wave 3 **high of 35** seen on 3/30/21. **0** patients were in the ICUs yesterday afternoon. There has been **1 COVID fatality** reported during the past 7 days. CCH and Falmouth Hospital are open to limited visitation.

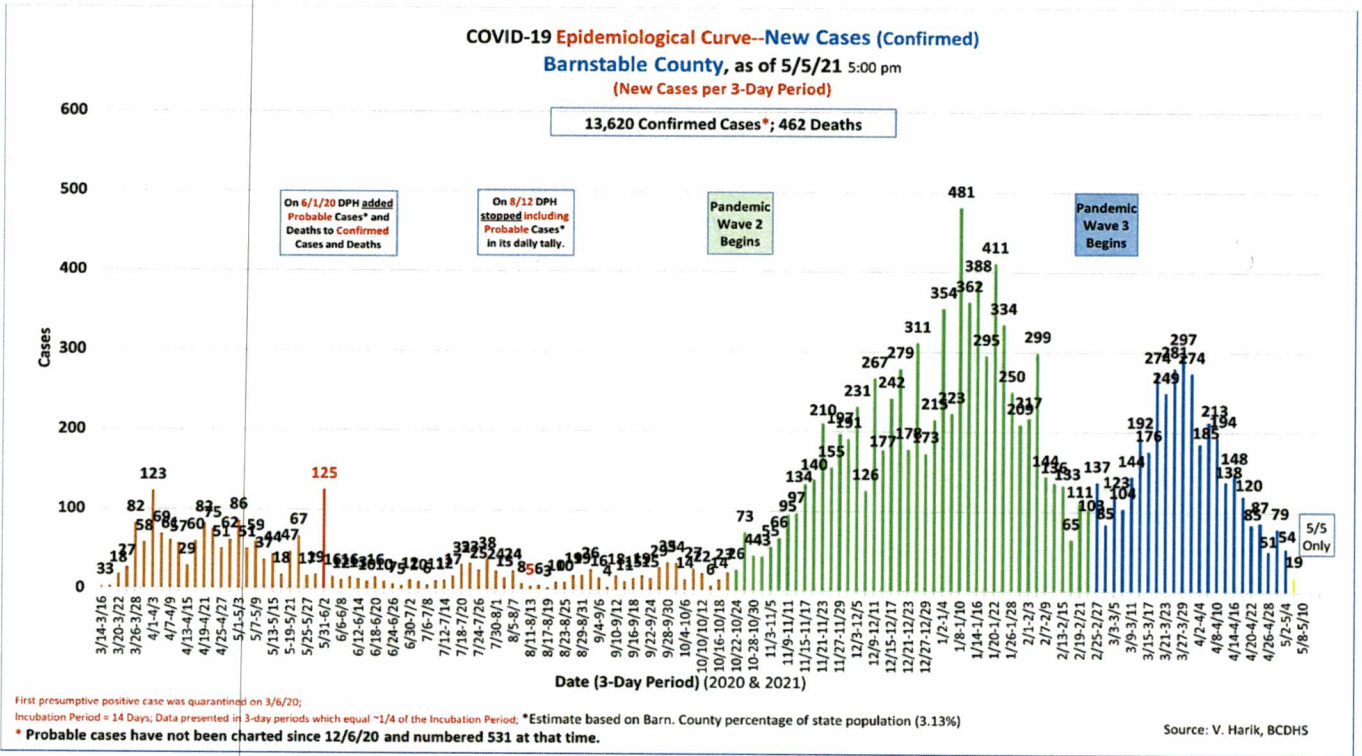
Test Positivity Rates (14-day average, as of **5/5/21**):

Barnstable County:	3.40% (vs. 4.40%) (lower vs. previous fortnight)
Dukes County:	Pending% (vs. 6.94%) (---)
Nantucket County:	Pending% (vs. 6.12%) (---)
Dukes & Nantucket Counties	6.04% (vs. 6.61%) (lower)

A test percent positivity rate below 5% suggests that an outbreak is on the way to **containment**.





























Vaccination:

-Next week the Pfizer vaccine will be approved to vaccinate children 12 and older.



Hospitalizations, Last Report:		Not Cumulative		Cumulative		3-Day Avg. of Persons in Hosp. (Med/Surg + ICU)	ICU Percent of Beds Occupied
		Hospital Beds Occupied (Last Report)	ICU Beds Occupied (Last Report)	Barnstable County Cases (Confirmed)	Barnstable County Deaths		
5/5/2021 (3pm)	Cape Cod Hospital	6	0	13,620	462	9.0	0%
	Falmouth Hospital	1	0				
		7	0				

Choosing Safer Activities

	Unvaccinated People	Your Activity	Fully Vaccinated People
Outdoor			
Safest		Walk, run, or bike outdoors with members of your household	
		Attend a small, outdoor gathering with fully vaccinated family and friends	
		Attend a small, outdoor gathering with fully vaccinated and unvaccinated people	
Less Safe		Dine at an outdoor restaurant with friends from multiple households	
		Attend a crowded, outdoor event, like a live performance, parade, or sports event	
Indoor			
Less Safe		Visit a barber or hair salon	
		Go to an uncrowded, indoor shopping center or museum	
		Ride public transport with limited occupancy	
		Attend a small, indoor gathering of fully vaccinated and unvaccinated people from multiple households	
Least Safe		Go to an indoor movie theater	
		Attend a full-capacity worship service	
		Sing in an indoor chorus	
		Eat at an indoor restaurant or bar	
		Participate in an indoor, high intensity exercise class	



Town of Harwich Board of Health

732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

April 29, 2021

WEEKLY COVID-19 UPDATE

CASES & STATISTICS

To date, Harwich has seen a cumulative total of 746 cases of COVID-19. We are currently following 16 active cases. The positivity rate has dropped to 4.79%, which moves us to the “Yellow” designation. Over the last two weeks the Town has seen 41 positive tests out of total 856 tests.

VACCINE

To date, 6,243 of our 12,589 full time residents are fully vaccinated, and 7,855 have received at least one dose.

Age Group	Population Size	Individuals with at least one dose	Fully vaccinated individuals
0-19 Years	1,993	195	50
20-29 Years	1,055	486	240
30-49 Years	2,146	1,413	828
50-64 Years	3,012	2,251	1,515
65-74 Years	2,551	2,202	1,986
75+ Years	1,833	1,824	1,624
Total	12,589	8,381	6,243

A private vaccination clinic was held on Wednesday April 28th at the Harwich Community Center. Approximately 80 individuals were vaccinated with the Moderna vaccine. Thank you to Outer Cape Health, Harwich Fire, MRC, CERT, and Jen for all the hard work!

Barnstable County has transitioned to the new, state-run vaccine pre-registration system, called “Color”. In order to get a first-dose vaccine appointment you must pre-register at <https://www.mass.gov/info-details/preregister-for-a-covid-19-vaccine-appointment>. Over the coming weeks, vaccine availability at select pharmacy location is also expected to increase substantially.

UPDATES

The Baker-Polito Administration announced on Tuesday that Massachusetts will reopen some outdoor Phase 4, Step 2 industries effective May 10th and put plans in place for further reopening on May 29th and August 1st. The Administration continues to take steps to reopen the Commonwealth's economy with public health metrics continuing to trend in a positive direction. This includes drops in average daily COVID cases and hospitalizations. Massachusetts remains first in the nation for first vaccine doses and total doses administered per capita, among states with more than 5 million people. The Administration will also relax the Face Coverings Order for some outdoor settings, effective April 30th.

Phase IV, Step 2 Industries and Gathering Changes:

On March 22, Massachusetts loosened capacity restrictions and advanced to Step 1 of Phase IV of the reopening plan. Since then, case rates dropped by 20%. The positivity rate has dropped to the lowest levels recorded since last summer.

Effective Monday, May 10th:

Large venues such as indoor and outdoor stadiums, arenas and ballparks currently open as part of Phase 4, Step 1 at 12% will be permitted to increase capacity to 25%.

The Commonwealth will reopen some outdoor Phase 4, Step 2 industries including amusement parks, theme parks and outdoor water parks that will be permitted to operate at a 50% capacity after submitting safety plans to the Department of Public Health.

Road races and other large, outdoor organized amateur or professional group athletic events will be permitted to take place with staggered starts after submitting safety plans to a local board of health or the DPH. Youth and adult amateur sports tournaments will be allowed for moderate and high risk sports. Singing will also be permitted indoors with strict distancing requirements at performance venues, restaurants, event venues and other businesses.

Effective May 29th:

Subject to public health and vaccination data, gathering limits will increase to 200 people indoors and 250 people outdoors for event venues, public settings and private settings.

Subject to public health and vaccination data, additional Phase 4, Step 2 industries will be permitted to open including:

- Street festivals, parades and agricultural festivals, at 50% of their previous capacity and after submitting safety plans to the local board of health.
- Bars, beer gardens, breweries, wineries and distilleries, will be subject to restaurant rules with seated service only, a 90 minute limit and no dance floors.
- Subject to public health and vaccination data, the restaurant guidance will be updated to eliminate the requirement that food be served with alcohol and to increase the maximum table size to 10.

Effective August 1st:

Subject to public health and vaccination data, remaining industries will be permitted to

open including:

- Dance clubs, and nightclubs
- Saunas, hot-tubs, steam rooms at fitness centers, health clubs and other facilities
- Indoor water parks
- Ball pits

All industry restrictions will be lifted at that time, and capacity will increase to 100% for all industries, with businesses encouraged to continue following best practices. The gathering limit will be rescinded.

Depending on vaccine distribution and public health data, the Administration may consider re-evaluating the August 1st date. The Department of Public Health will also continue to issue guidance as needed, including guidance to still require masks indoors.

Face Coverings Order:

Effective April 30th, the Face Coverings Order will be relaxed for some outdoor settings.

Face coverings will only be required outside in public when it is not possible to socially distance, and at other times required by sector-specific guidance.

Face coverings will still be required at all times in indoor public places. Face coverings will also continue to be required at all times at events, whether held indoors or outdoors and whether held in a public space or private home, except for when eating or drinking.

At smaller gatherings in private homes, face coverings are recommended but not required. The \$300 fine as an enforcement mechanism will be eliminated.

For more information, visit mass.gov/reopening.

****** NOTE: Any member of the public utilizing Route 28, between Lower County Road and Bank Street between 9 am and 10 pm, still must wear a face covering at all times over their nose and mouth and must exercise social distancing, regardless of the Face Covering Order being lifted by the State. This order will remain in effect until notice is given, pursuant to the Board of Health's judgment that the Order is no longer necessary.******

Sector Specific Safety Standards:

As of April 30th, 2021, many of the Sector Specific Safety Standards have been rescinded. Some of the Standards that have been rescinded are: Golf, Library, and Construction. These sectors would now need to follow the Safety Standards for "Sectors Not Otherwise Addressed" which can be found at: <https://www.mass.gov/info-details/safety-standards-and-checklist-sectors-not-otherwise-addressed>.

TESTING

For free testing at Outer Cape Health, please call [508-905-2888](tel:508-905-2888) to make an appointment.

Barnstable County offers FREE COVID-19 testing at the Barnstable County Fairgrounds Tuesdays 10:00 AM – 12:00 PM and Fridays 10:00 AM – 12:00 PM. Call to make an appointment 774-330-3002 – or take 1 minute and schedule online at <https://bit.ly/3doeaH5>

Testing is still available in other locations 7 days per week through Cape Cod Healthcare. Call the Community Testing Line at [508-534-7103](tel:508-534-7103) to make an appointment.

REMINDER

Please continue to maintain social distancing, mask use, and good hand hygiene. We need to work together as a community to minimize the spread!

Stay Safe!
~Dr. O'Neill
Health Director

4/29/2021: Barnstable County Regional COVID-19 Update

New Cases: DPH new cases reported Wednesday:

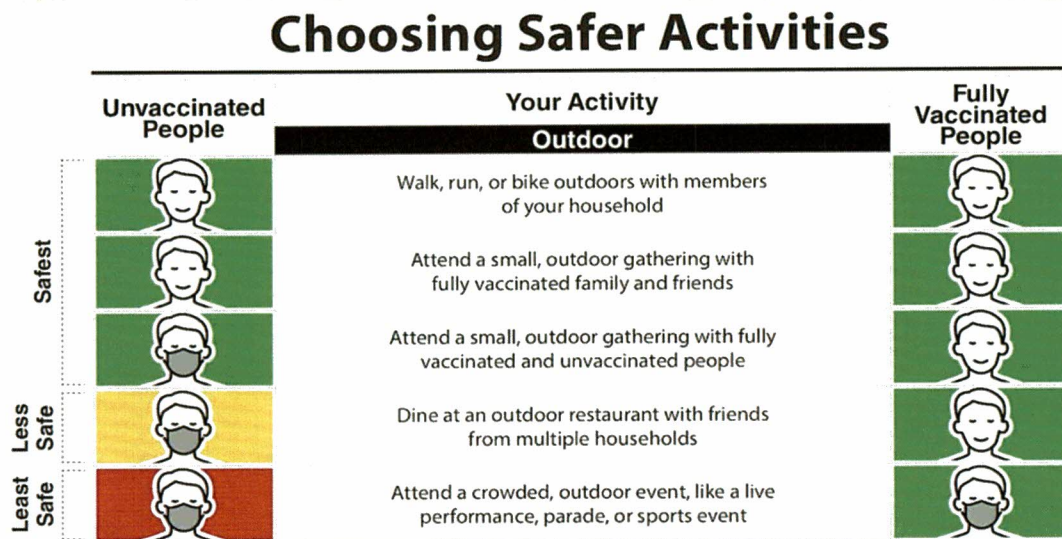
Barnstable County: 20 new cases
Martha's Vineyard: 6 new cases
Nantucket: 9 new cases

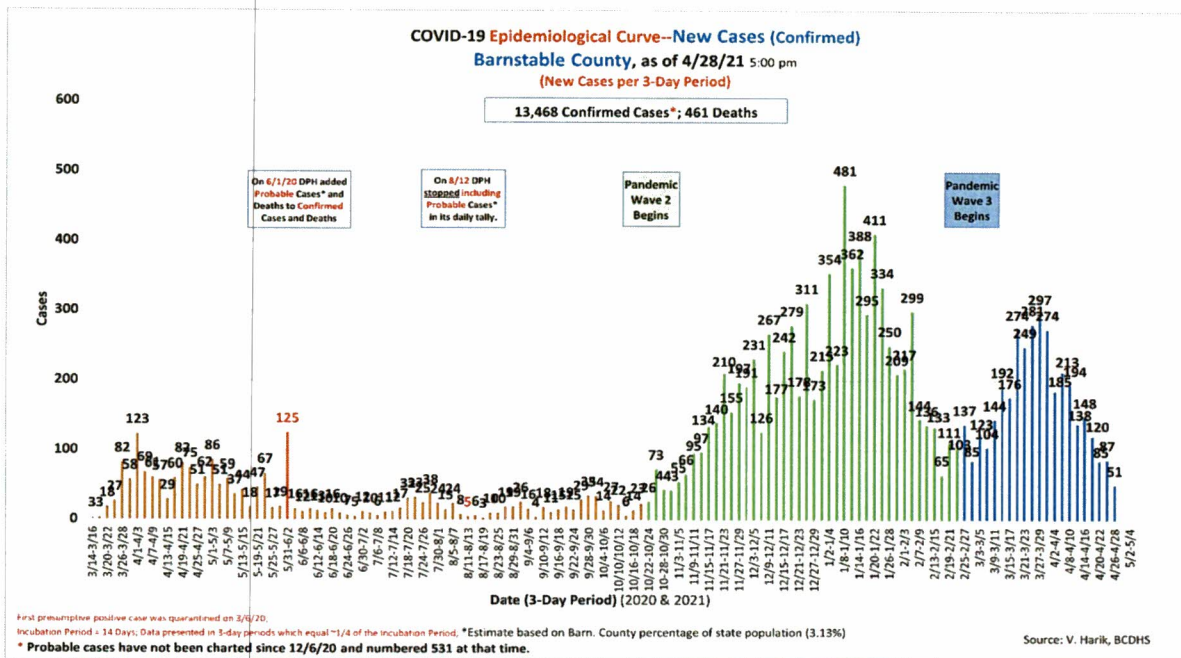
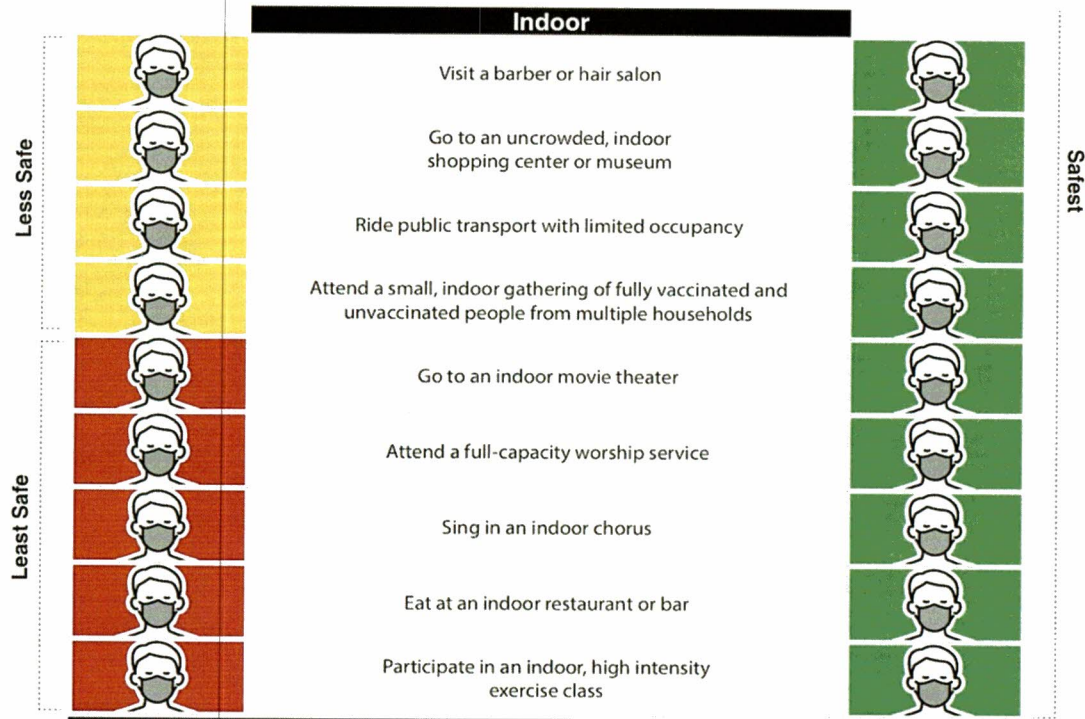
Test Positivity Rates (14-day average, as of **4/28/21**):

Barnstable County: 3.40% (vs. 4.34%) (**lower** vs. previous fortnight)
 Dukes County: Pending (vs. 7.24%) (**Pending**)
 Nantucket County: Pending (vs. 6.69%) (**Pending**)
 Dukes & Nantucket Counties 6.61% (vs. 7.03%) (**lower**)

A test percent positivity rate below 5% suggests that an outbreak is on the way to **containment**.

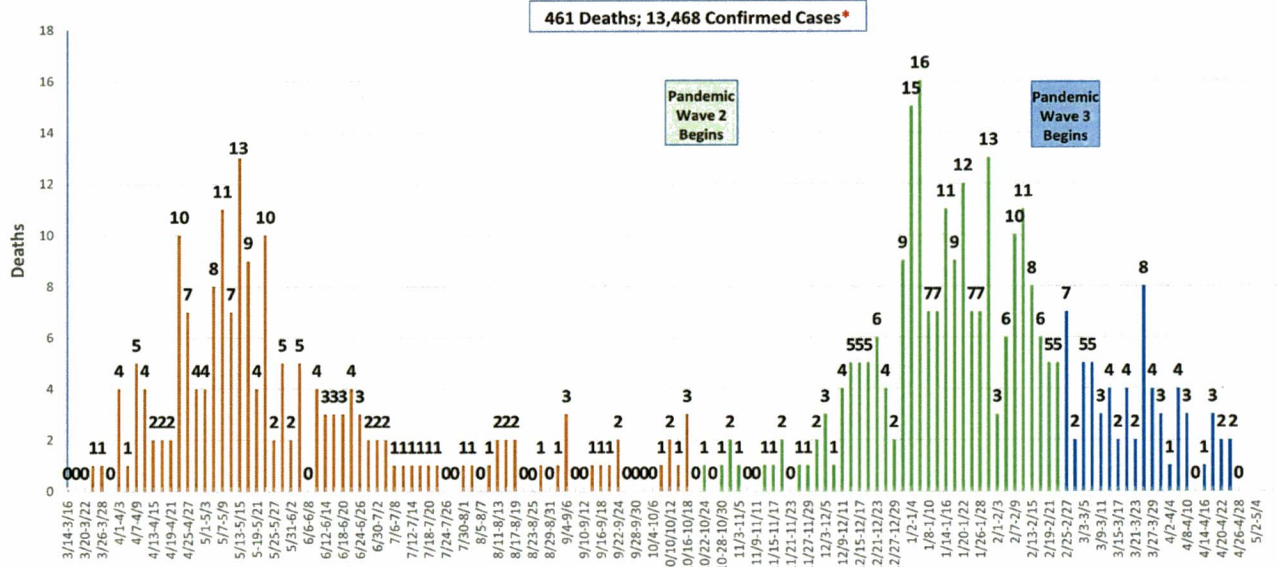
The CDC has released guidance on Safer Activities for Fully Vaccinated Persons:





Hospitalizations, Last Report:		Not Cumulative		Cumulative		3-Day Avg. of Persons in Hosp. (Med/Surg + ICU)	ICU Percent of Beds Occupied
		Hospital Beds Occupied (Last Report)	ICU Beds Occupied (Last Report)	Barnstable County Cases (Confirmed)	Barnstable County Deaths		
4/28/2021 (3pm)	Cape Cod Hospital	7	0	13,448	461	10.0	17%
	Falmouth Hospital	3	2				
		10	2				

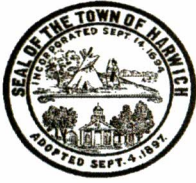
COVID-19 Epidemiological Curve--New Deaths (Confirmed + Probable)
Barnstable County, as of 4/28/21 5:00 pm
(New Deaths per 3-Day Period)



First presumptive positive case was quarantined on 3/6/20;
 Incubation Period = 14 Days; Data presented in 3-day periods which equal ~1/4 of the Incubation Period
 * Probable cases have not been charted since 12/6/20 and numbered 531 at that time.
 Source: V. Harik, BCDHS; Using data provided by the MA Department of Public Health

Individuals with at Least One Dose Administered by County and Age Group, as of 4/22/21							
Source: Data, MA DPH, 4/22/21; Analysis, V. Harik, Barnstable County Dept. of Human Services							
Barnstable County	0-19 Years	20-29 Years	30-49 Years	50-64 Years	65-74 Years	75+ Years	Total
Total Population by Age Bracket	36,252	22,041	38,725	51,716	38,964	28,931	216,629
Age Bracket % of County Population	17%	10%	18%	24%	18%	13%	
Persons in Age Group with at Least One Dose	2,212	7,817	21,142	36,323	33,486	27,382	128,362
Percent of Age Group with at Least One Dose	6%	35%	55%	70%	86%	95%	59.3%
Persons in Age Group Not Yet Vaccinated.	34,040	14,224	17,583	15,393	5,478	1,549	88,267
Percent of Age Group Not Yet Vaccinated	94%	65%	45%	30%	14%	5%	40.7%

* Due to privacy concerns, vaccination figures are suppressed where less than 30 persons are vaccinated.



Town of Harwich Board of Health

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April 23, 2021

WEEKLY COVID-19 UPDATE

CASES & STATISTICS

To date, Harwich has seen a cumulative total of 730 cases of COVID-19. We are currently following 15 active cases. The positivity rate has increased to 6.35%, which leaves us in the “**Red**” designation. Over the last two weeks, the Town has seen 57 positive tests out of 897 tests ($57 \div 897 \times 100 = 6.35\%$).

With more people getting vaccinated, and the travel order now an advisory, less people are getting tested than previously. This makes our overall test population smaller, which in turn may potentially show a higher percentage rate. Although our case numbers are dropping, so are the number of total tests.

Another measure of disease frequency we can look at is called “Incidence Proportion”, also called “Cumulative Incidence”. Incidence Proportion is the probability of developing disease over a specific period of time, and is used to estimate risk. For example, the two week Incidence Proportion for Harwich is 0.45%. That can be interpreted to mean that in Harwich, over the past two weeks, the probability, or estimated risk, of contracting COVID-19 was 0.45%. We can then compare these numbers to other towns or cities, as shown below, to determine if we have a higher probability of developing COVID-19. Massachusetts as a whole showed that over the past two week time period, the estimated risk of developing COVID-19 was 0.56%. We need to look at multiple measures of disease frequency in order to see the bigger picture. Just because we have a low risk, does not mean that we can minimize protective measures such as mask use and social distancing.

Harwich

Incidence Proportion (4/16- 4/22) = 15 new cases \div 12,589 population \times 100 = **0.12%**

Incidence Proportion (4/9-4/22) = 57 new cases \div 12,589 population \times 100 = **0.45%**

Brewster (4/9-4/22) = 37 new cases \div 9,926 population \times 100 = **0.37%**

Chatham (4/9-4/22) = 8 new cases \div 5,830 population \times 100 = **0.14%**

Dennis (4/9-4/22) = 58 new cases \div 13,088 population \times 100 = **0.44%**

Edgartown (4/9-4/22) = 57 new cases \div 4,086 population \times 100 = **1.40%**

Oak Bluffs (4/9-4/22) = 48 new cases \div 5,209 population \times 100 = **0.92%**

Tisbury (4/9-4/22) = 42 new cases \div 4,174 population \times 100 = **1.01%**

Nantucket (4/9-4/22) = 82 new cases \div 11,416 population \times 100 = **0.72%**

Massachusetts (4/9-4/22) = 705,239 \div 125,358,885 \times 100 = **0.56%**

VACCINE

COVID-19 UPDATE APRIL 23, 2021

Page 1 of 4

To date, 5,567 full time residents are fully vaccinated, and 7,855 full time residents have received at least one dose.

Age Group	Population Size	Individuals with at least one dose	Fully vaccinated individuals
0-19 Years	1,993	126	32
20-29 Years	1,055	391	181
30-49 Years	2,146	1,259	643
50-64 Years	3,012	2,105	1,204
65-74 Years	2,551	2,169	1,902
75+ Years	1,833	1,805	1,605
Total	12,589	7,855	5,567

A private vaccination clinic has been re-scheduled for Wednesday April 28th at the Harwich Community Center. Outer Cape Health was able to obtain the Moderna vaccine for the clinic. We have 131 individuals scheduled from 8 AM to 1 PM. Harwich EMS will be administer the vaccines. This is a closed clinic, and is scheduled by appointment only.

Barnstable County is transitioning to the new, state-run vaccine pre-registration system, called “Color”. In order to get a first-dose vaccine appointment you must pre-register at <https://www.mass.gov/info-details/preregister-for-a-covid-19-vaccine-appointment>. Over the coming weeks, vaccine availability at select pharmacy location is also expected to increase substantially.

TESTING

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Testing is still available in other locations 7 days per week through Cape Cod Healthcare. Call the Community Testing Line at [508-534-7103](tel:508-534-7103) to make an appointment.

REMINDER

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Stay Safe!
~Dr. O’Neill
Health Director

4/23/2021: Barnstable County Regional COVID-19 Update

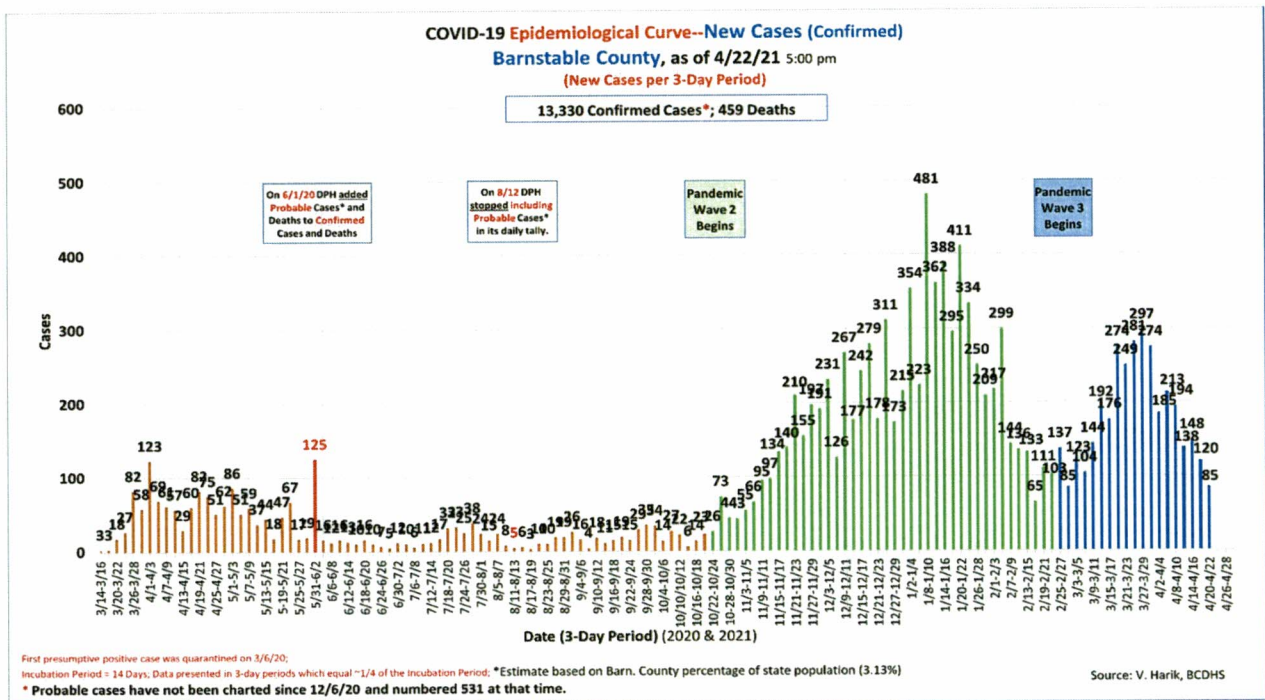
New Cases: DPH confirmed cases reported yesterday:

Barnstable County: 39 new cases;
Martha's Vineyard: 15 new cases;
Nantucket: 15 new cases;

Test Positivity Rates (14-day average, as of **4/21/21**):

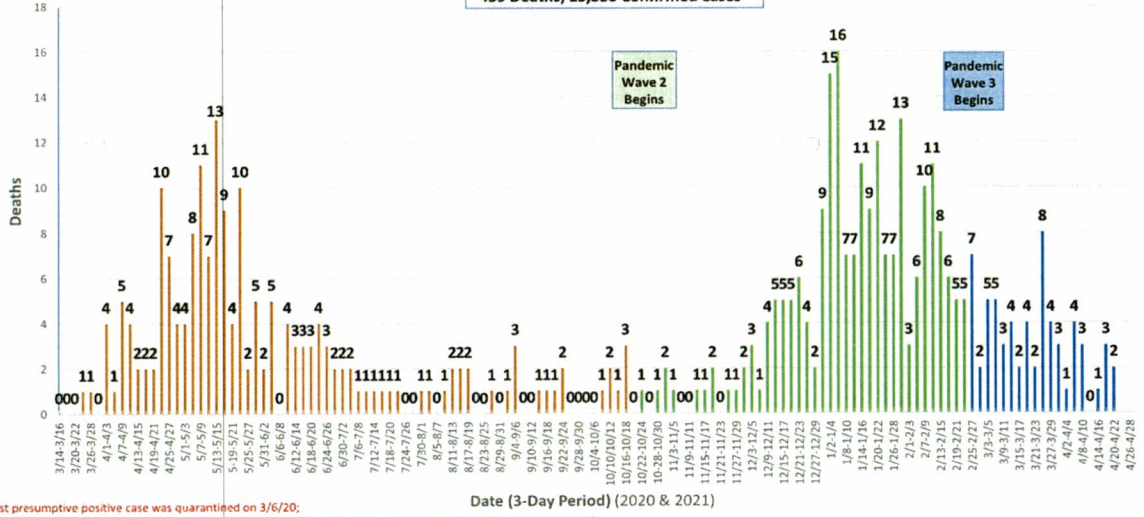
Barnstable County: **4.34%** (vs. 5.14%) (**lower** vs. previous fortnight)
 Dukes & Nantucket Counties: **7.03%** (vs. 8.31%) (**lower**)

A test percent positivity rate below 5% suggests that an outbreak is on the way to **containment**.



COVID-19 Epidemiological Curve--New Deaths (Confirmed + Probable)
Barnstable County, as of 4/22/21 5:00 pm
 (New Deaths per 3-Day Period)

459 Deaths; 13,330 Confirmed Cases*



First presumptive positive case was quarantined on 3/6/20;

Incubation Period = 14 Days; Data presented in 3-day periods which equal ~1/4 of the Incubation Period

* Probable cases have not been charted since 12/6/20 and numbered 531 at that time.

Source: V. Harik, BCDHS; Using data provided by the MA Department of Public Health



Town of Harwich

Board of Health

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April 16, 2021

WEEKLY COVID-19 UPDATE

CASES & STATISTICS

To date, Harwich has seen a cumulative total of 716 cases of COVID-19. We are currently following 52 active cases. The positivity rate has increased to 5.58%, which moves us back into the “Red” designation. Over the last two weeks, the Town has seen 60 positive cases out of 1076 total tests.

VACCINE

To date, 5,028 full time residents are fully vaccinated, and 7,420 full time residents have received at least one dose.

Age Group	Population	Individuals with at least one dose	Fully vaccinated individuals
0-19 Years	1,993	96	0
20-29 Years	1,055	336	151
30-49 Years	2,146	1,120	562
50-64 Years	3,012	1,936	974
65-74 Years	2,551	2,140	1,762
75+ Years	1,833	1,792	1,579
Total	12,589	7,420	5,028

The private clinic scheduled for Thursday April 15th was cancelled due to the Johnson & Johnson Vaccine pause. The Food and Drug Administration (FDA) and Centers for Disease Control and Prevention (CDC) issued a statement regarding the Johnson & Johnson COVID-19 vaccine recommending a pause in its use out of an abundance of caution. The Department of Public Health notified all Massachusetts providers to pause administration of the Johnson & Johnson COVID-19 vaccine, effective immediately.

We have been in contact with Outer Cape Health, and they are putting in an emergency order of Moderna for next week. We hope to re-schedule this private clinic as soon as possible.

Public clinics can be Pre-registered for at <https://www.mass.gov/info-details/preregister-for-a-covid-19-vaccine-appointment>. Currently eligible participants can sign up for a vaccine at <https://vaxfinder.mass.gov/>. Starting Monday April 19th, everyone 16 or older will be eligible to receive the vaccine.

JOHNSON & JOHNSON PAUSE

Summary

As of April 12, 2021, approximately 6.85 million doses of the Johnson & Johnson (J&J) COVID-19 vaccine (Janssen) have been administered in the United States. The Centers for Disease Control and Prevention (CDC) and the U.S. Food and Drug Administration (FDA) are reviewing data involving six U.S. cases of a rare type of blood clot in individuals after receiving the J&J COVID-19 vaccine that were reported to the Vaccine Adverse Event Reporting System (VAERS). In these cases, a type of blood clot called “Cerebral Venous Sinus Thrombosis” (CVST) was seen in combination with low levels of blood platelets (thrombocytopenia). All six cases occurred among women aged 18–48 years old. The onset of symptoms after receiving the vaccine was 6–13 days. One patient unfortunately died.

The CDC called together an emergency meeting of the Advisory Committee on Immunization Practices (ACIP) on Wednesday, April 14, 2021, to further review these cases, and assess potential implications on vaccine policy. This is also being reviewed by the FDA. Out an abundance of caution, the CDC and FDA are recommending that there be a total pause in the administration of the J&J COVID-19 vaccine, until the review process is complete.

Background

The Vaccine Adverse Event Reporting System (VAERS) is a national surveillance system managed by both the CDC and FDA. This system monitors adverse events after vaccination. The six patients (after 6.85 million vaccine doses administered) described in the VAERS reports, started at the end of March, 2021. The six patients developed symptoms an average of 9 days (range = 6–13 days) after receiving the J&J COVID-19 vaccine. Initial symptoms in five of the six patients were headache, and in the sixth patient was back pain, who subsequently then developed a headache. One patient also had abdominal pain, nausea, and vomiting. Four patients developed neurological symptoms (weakness, not being able to swallow, and visual disturbance), which prompted emergency care. The average days from vaccination to hospital admission was 15 days (range = 10–17 days). All were eventually diagnosed with “Cerebral Venous Sinus Thrombosis” (CVST) by brain imaging; and two patients were also diagnosed with splanchnic* and portal vein thrombosis. An unusual occurrence was also observed; all six patients showed evidence of “thrombocytopenia” (<150,000 platelets per microliter of blood), consistent with a condition known as “thrombotic thrombocytopenia”. The platelet counts during hospitalization ranged from 10,000 to 127,000, where normal platelet counts range from 150,000 to 450,000. Four patients developed intraparenchymal brain

hemorrhage (internal bleed), and one patient unfortunately died. To date, VAERS has not received any reports of CVST with thrombocytopenia among persons who received either of the two mRNA-based COVID-19 vaccines (Moderna or Pfizer).

These reports following the J&J COVID-19 vaccine are similar to reports after receipt of the AstraZeneca COVID-19 vaccine in Europe. Both vaccines contain replication-incompetent adenoviral vectors that encode the spike glycoprotein of SARS-CoV-2, the virus that causes COVID-19.

** The term 'splanchnic circulation' describes the blood flow to the abdominal gastrointestinal organs including the stomach, liver, spleen, pancreas, small intestine, and large intestine.*

Recommendations for the Public:

1. If you have received the J&J COVID-19 vaccine and develop severe headache, abdominal pain, leg pain, or shortness of breath within three weeks after vaccination, contact your healthcare provider, or seek medical care.
2. Report adverse events, including severe headache, abdominal pain, leg pain, or shortness of breath within three weeks after vaccination, following receipt of any COVID-19 vaccine to your healthcare provider as well as to the CDC's V-Safe After Vaccination Health Checker app.
3. If you are scheduled to receive the J&J vaccine, please contact your healthcare provider, vaccination location, or clinic to learn about additional vaccine availability.

For More Information

- Resources on thrombotic thrombocytopenia after AstraZeneca COVID-19 vaccine
<https://www.nejm.org/doi/full/10.1056/NEJMoa2104840>,
<https://www.nejm.org/doi/full/10.1056/NEJMoa2104882>

TESTING

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Testing is still available in other locations 7 days per week through Cape Cod Healthcare. Call the Community Testing Line at [508-534-7103](tel:508-534-7103) to make an appointment.

REMINDER

Please continue to maintain social distancing, mask use, and good hand hygiene. We need to work together as a community to minimize the spread!

Stay Safe!

~Dr. Katie O'Neill

Health Director

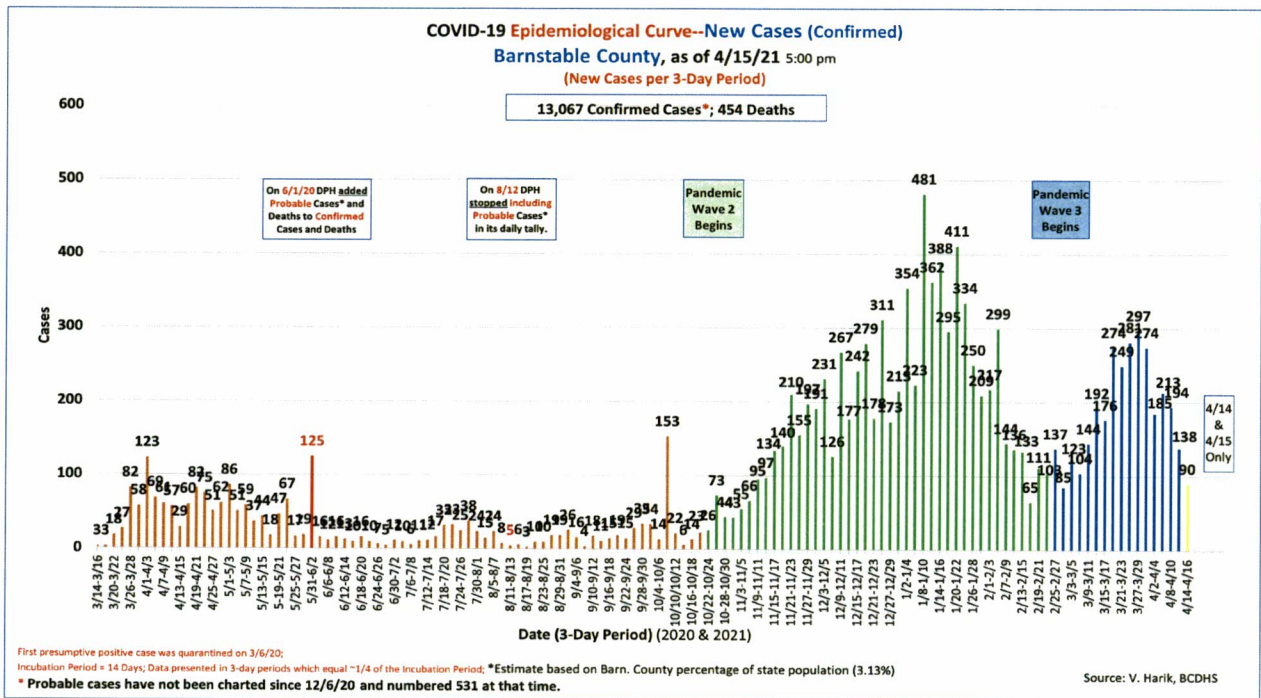
4/16/2021: Barnstable County Regional COVID-19 Update

Test Positivity Rates (14-day average, as of 4/14/21):

Barnstable County: 5.14% (vs. 5.79%) (**lower** vs. previous fortnight)

Dukes & Nantucket Counties: 8.31% (vs. 8.33%) (**no change**)

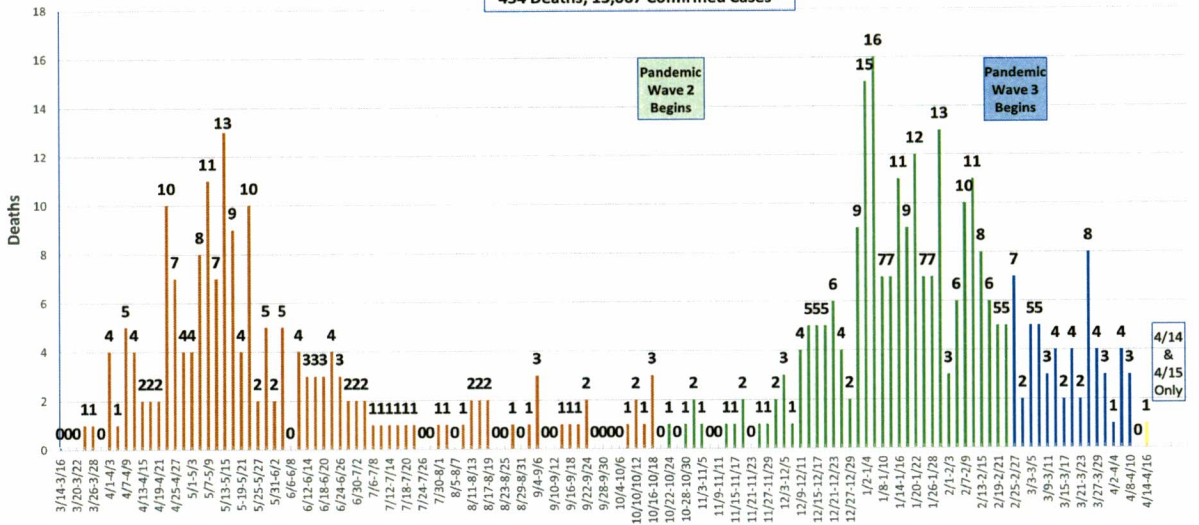
A test percent positivity rate below 5% suggests that an outbreak is on the way to **containment**.



Hospitalizations, Last Report:		Not Cumulative		Cumulative		3-Day Avg. of Persons in Hosp. (Med/Surg + ICU)	ICU Percent of Beds Occupied
		Hospital Beds Occupied (Last Report)	ICU Beds Occupied (Last Report)	Barnstable County Cases (Confirmed)	Barnstable County Deaths		
4/15/2021	Cape Cod Hospital	13	2	13,067	454	24.3	23%
	Falmouth Hospital	4	3				
		17	5				

COVID-19 Epidemiological Curve--New Deaths (Confirmed + Probable)
Barnstable County, as of 4/15/21 5:00 pm
(New Deaths per 3-Day Period)

454 Deaths; 13,067 Confirmed Cases*



First presumptive positive case was quarantined on 3/6/20;

Incubation Period = 14 Days; Data presented in 3-day periods which equal ~1/4 of the Incubation Period

* Probable cases have not been charted since 12/6/20 and numbered 531 at that time.

Source: V. Harik, BCDHS; Using data provided by the MA Department of Public Health

V - A.

**BOARD OF HEALTH MEETING- SITE SUMMARY
MAY 18, 2021**

To: Board of Health
From: Kathleen O'Neill, Health Director
Engineer: Michael Pimental, EIT, CSE/JC Engineering Inc.
Owner: Frank R. Popkiewicz & Eileen McGann
Address: 8 Ruth Lane

On behalf of the owner, Michael Pimental of Engineering Inc., is applying for variances from the State Environmental Code, Title 5, and Harwich Board of Health Regulations as following:

Variances from 310 CMR 15.211-Minimum Setbacks

1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 1' from the front property line where 10' is required. Variance request of 9'.
2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 18.3' from the existing housing foundation where 20' is required. Variance request of 1.7'.
Variance from Harwich Board of Health Regulation 1.210
1. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 80.6' from the wetland where 100' is required. Variance request of 19.4'

The application is proposing to upgrade a failed septic system for the property located at 8 Ruth Lane. The plan shows a proposal to keep the existing 1000 gallon septic tank and upgrade the distribution box and the soil absorption system. The existing dwelling contains three (3) bedrooms and there are no plans for additions or alterations to the dwelling at this time. The proposed septic system has been designed for three (3) bedrooms. Variances are being requested due to site constraints of the property and the location of an old bog behind the house. A 40-mil geomembrane liner is being proposed to be installed between the soil absorption system and house foundation as shown on the plan.

I recommend approval with conditions (please see suggested motion, Option 2, below).

SUGGESTED MOTIONS FOR BOARD CONSIDERATION

IF THE BOARD IS NOT READY TO VOTE, DO NOT CLOSE THE PUBLIC HEARING, BUT CONTINUE THE HEARING TO A DATE AND TIME CERTAIN (OPTION #1).

OPTION #1: If the Board requires additional information, or wants to take the matter under advisement, the following motion is recommended: Move to continue the hearing for 8 Ruth Lane to no earlier than 7:00 PM on _____ (Next meeting Date is June 15, 2021) for the following reason(s): *Need to provide reasons for the continuance- additional information, take under advisement, etc.*

IF THE BOARD IS READY TO CLOSE THE PUBLIC HEARING AND VOTE:

OPTION #2: Move to approve the variance request for 8 Ruth Lane from 310 CMR 15.211 to allow the proposed soil absorption system to be 1' from the front property line where 10' is required, variance of 9'. To allow the proposed soil absorption system to be 18.3' from the existing housing foundation where 20' is required, variance of 1.7'. Per Harwich Board of Health Regulation 1.210: to allow the proposed soil absorption system to be 80.6' from the wetland where 100' is required, variance of 19.4'. With the following conditions:

1. No increase in square footage or habitable space without review by the Board of Health.
2. The property shall be deed restricted to a maximum of 3 bedrooms.
3. Variances and conditions are to be recorded at the Barnstable County Registry of Deeds.

OPTION #3: Move to deny the variance request at 8 Ruth Lane (*state reason*).



**Town of Harwich
Board of Health**

732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

Office Use Only	
Filing Fee Paid/Amount:	\$125-
Check #/Cash:	✓ 8208
Date App Received:	4/14/21
Meeting Date:	5/18/21
Date Approved:	_____
Date Denied:	_____
Reason for Denial:	_____
_____	_____
_____	_____

Application for Board of Health Variances

Date: 4-9-21

Property Address: 8 Ruth Lane, Harwich, MA 02645

Map: 32 Parcel: K4-25

Book: 30618 Page: 181 Land Court No: _____

Name of Applicant: Frank R. Popkiewicz & Eileen McGann

Applicant Mailing Address: 8 Ruth Lane

Harwich MA 02645

City State Zip Code

Applicant Telephone Number: _____

Applicant E-Mail Address: _____

Owner(s) of Record: Frank R. Popkiewicz & Eileen McGann

Owner(s) Mailing Address: 8 Ruth Lane

Harwich MA 02645

City State Zip Code

Design Engineer/Sanitarian: Michael Pimentel, EIT, CSE

Firm/Company Name: JC Engineering, Inc.

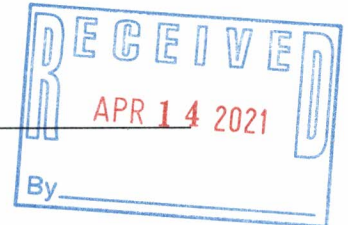
Mailing Address: 2854 Cranberry Highway

E. Wareham MA 02538

City State Zip Code

Telephone Number: 508-273-0377

Design Engineer/Sanitarian E-Mail Address: mpimentel@jceng.org



Please Choose Application Type:

Voluntary Upgrade: ____ Addition/Alteration: ____ Failed System: X EIR: ____
 Other: _____

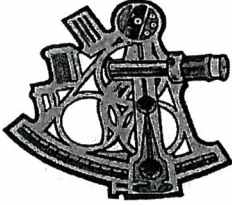
Conservation Commission Approval Required: No: ____ Yes: X Date of CC Hearing: In-House

List All Variances from State & Local Codes

Title 5, Section #	Description of Variance(s):
15.211	A 9.0' waiver (10.0' - 1.0') for the setback from the SAS to the front property line.
15.211	A 1.7' waiver (20.0' - 18.3') for the setback from the SAS to the existing house foundation
Harwich Reg. #	Description of Variance(s):
1.210	A 19.4' variance (100.0' - 80.6') for the setback from the SAS to the wetland.

In addition to this form, 8 packets of the following must be submitted by 4:00 p.m. on the filing deadline date:

- Letter to Board of Health
- Letter to abutters (bring certified mail receipts to the meeting)
- Copy of certified abutter list
- Existing variance letter (if applicable)
- Floor plans (all floors/existing & proposed)
- Site plan
- Filing Fee \$125.00 (Variance)/\$300.00 (EIR)



JC ENGINEERING, Inc.
Civil & Environmental Engineering
2854 Cranberry Highway
East Wareham, Massachusetts 02538
Ph. 508-273-0377—Fax 508-273-0367

MEETING NOTICE

Dear Abutter:

A public hearing has been scheduled for the Harwich Board of Health to take action on an application for variances from the regulations of the Harwich Board of Health and/or Title 5 for Subsurface Disposal of Sewage. You are hereby notified that there will be a hearing held at the Harwich Town Offices, 732 Main Street, Harwich on May 18, 2021 at 7:00 pm.

The project involves the installation of a Title 5 septic system at 8 Ruth Lane, Harwich, MA (Assessor's Map 32, Lot K4-25) to replace an existing leaching trench system. Due to site constraints of the property and the location of an old bog located behind the house, the following Local Upgrade Approvals and local variance are requested for the project.

In accordance with 310 CMR 15.401 - 15.405, the following Local Upgrade Approvals (LUA) are requested from 310 CMR 15.211:

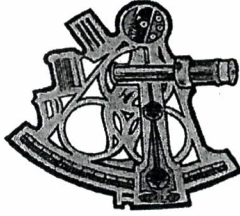
1. A 9.0' waiver (10.0' - 1.0') for the setback from the SAS to the front property line.
2. A 1.7' waiver (20.0' - 18.3') for the setback from the SAS to the existing house foundation.

The following local variance to the town of Harwich Board of Health regulations Part 2 (Disposal Works Regulations), Section 1.210 is requested:

1. A 19.4' variance (100.0' - 80.6') for the setback from the SAS to the wetland.

If you have any questions, you may contact Michael Pimentel at the number listed above or you may contact the Harwich Health Department at 508-430-7509. The application and plans are available for review at the Harwich Health Department, Harwich Town Hall, 732 Main Street, Harwich, MA; Monday through Friday (excluding holidays) from 8:30 am to 4:00 pm.

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order. The agenda, including dial-in instructions, will be posted on the Town of Harwich website www.town.harwich.ma.us



JC ENGINEERING, Inc.
Civil & Environmental Engineering
2854 Cranberry Highway
East Wareham, Massachusetts 02538
Ph. 508-273-0377 - Fax 508-273-0367

May 3, 2021

Town of Harwich
Board of Health
732 Main Street
Harwich, MA 02645

RE: Request for Local Variance & Local Upgrade Approvals at 8 Ruth Lane, Harwich, MA

Dear Members of the Board:

Please find enclosed a design drawing entitled, "Proposed Septic System Upgrade" located at 8 Ruth Lane, Harwich, MA, dated April 8, 2021 (last revised 5-3-21) for your review and approval. This project is necessary for the upgrade of an existing failed septic system for an existing three (3) bedroom single family dwelling.

Due to site constraints of the property and the location of an old bog located behind the house, the following Local Upgrade Approvals and local variance are requested for the project.

In accordance with 310 CMR 15.401 - 15.405, the following Local Upgrade Approvals (LUA) are requested from 310 CMR 15.211:

1. A 9.0' waiver (10.0' - 1.0') for the setback from the SAS to the front property line.
2. A 1.7' waiver (20.0' - 18.3') for the setback from the SAS to the existing house foundation.

The following local variance to the town of Harwich Board of Health regulations Part 2 (Disposal Works Regulations), Section 1.210 is requested:

1. A 19.4' variance (100.0' - 80.6') for the setback from the SAS to the wetland.

Due to the above requested LUA #2, a 40-mil geomembrane liner is proposed to be installed between the SAS and house foundation as shown on the plan.

Thank you for your assistance on this project.

Sincerely,

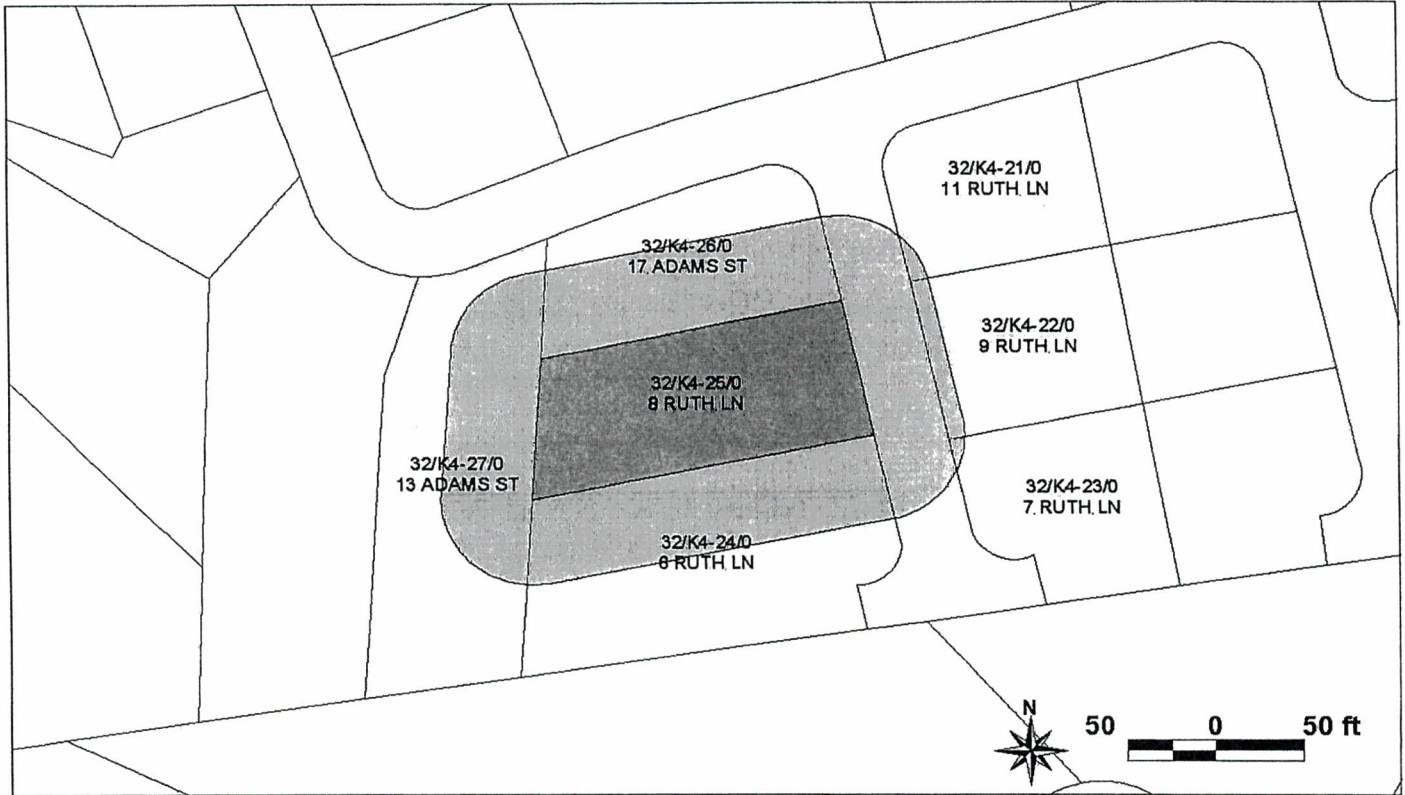
Michael Pimentel

Michael Pimentel, EIT, CSE
Senior Project Engineer

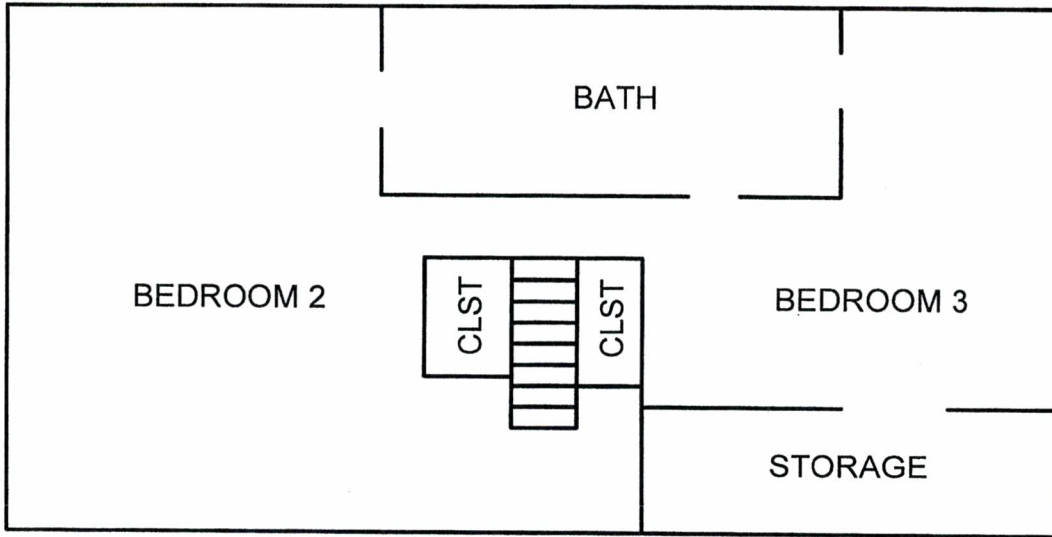


TOWN OF HARWICH, MA
 BOARD OF ASSESSORS
 732 Main Street, Harwich, MA 02645

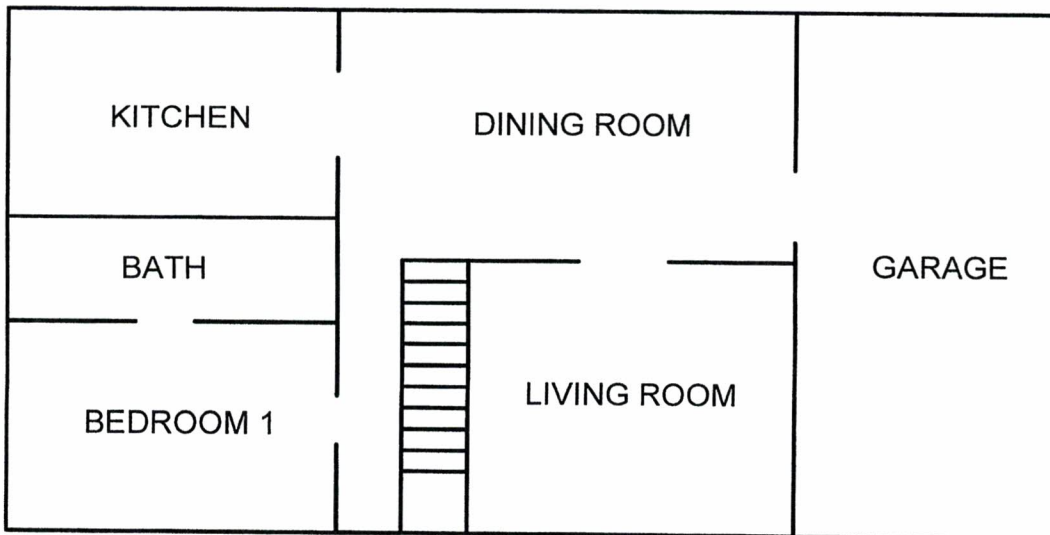
Abutters List Within 50 feet of Parcel 32/K4-25/0



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
3693	32-K4-21-0-R	SUMBERG MARC EDWARD & KYDD-SUMBERG COLLEEN	11 RUTH LN	123 EDGEMERE AV	WEST HARTFORD	CT	06110
3694	32-K4-22-0-R	FURBUSH ROBERT C LIFE ESTATE FURBUSH EMILY A LIFE ESTATE	9 RUTH LN	9 RUTH LN	HARWICH	MA	02645
3695	32-K4-23-0-R	HOLSTER GREGORY	7 RUTH LN	7 RUTH LN	HARWICH	MA	02645
3696	32-K4-24-0-R	FAHERTY SHEILA M TR SHEILA M FAHERTY LIVING TR	6 RUTH LN	1241 ADAMS ST F512	DORCHESTER	MA	02124
3697	32-K4-25-0-R	POPKIEWICZ FRANK R & MCGANN EILEEN	8 RUTH LN	8 RUTH LN	HARWICH	MA	02645
9112	32-K4-26-0-R	CASTRICUM ANNE T ET AL CASTRICUM DEBORAH	17 ADAMS ST	17 ADAMS ST	HARWICH	MA	02645
9113	32-K4-27-0-R	YOUNG JOSEPH M & RIDEOUT CHARLENE D	13 ADAMS ST	16 ST BRENDAN RD	DORCHESTER	MA	02124



SECOND FLOOR



FIRST FLOOR

EXISTING HOUSE FLOOR PLANS

8 RUTH LANE
HARWICH, MA 02645

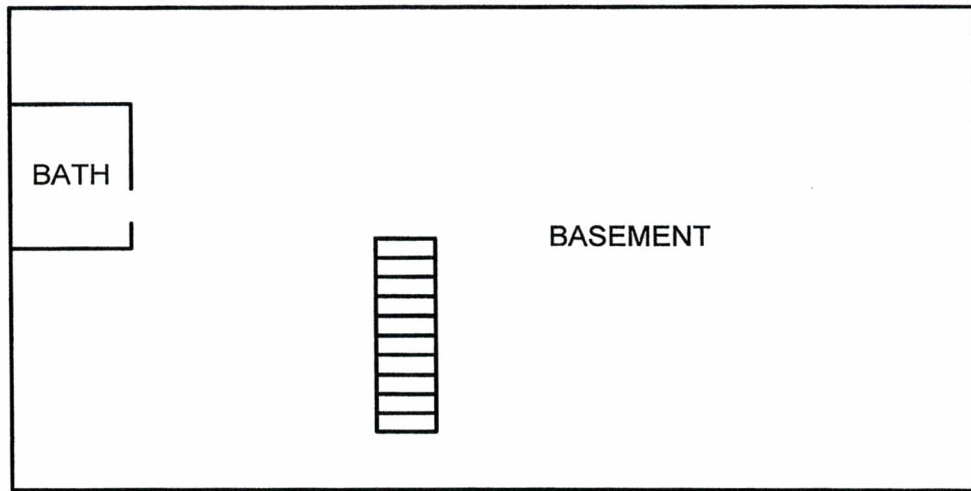
DATE: MAY 3, 2021

NTS

PREPARED BY:

JC ENGINEERING, INC.
2854 CRANBERRY HIGHWAY
EAST WAREHAM, MA 02538
(508) 273-0377

SHEET 1 OF 2



BASEMENT

EXISTING HOUSE FLOOR PLANS

8 RUTH LANE
HARWICH, MA 02645

DATE: MAY 3, 2021

NTS

PREPARED BY:

JC ENGINEERING, INC.
2854 CRANBERRY HIGHWAY
EAST WAREHAM, MA 02538
(508) 273-0377

SHEET 2 OF 2

V-B.

**BOARD OF HEALTH MEETING- SITE SUMMARY
MAY 18, 2021**

To: Board of Health
From: Kathleen O'Neill, Health Director
Engineer: Dan A. Speakman/Dan A. Speakman Construction
Owner: Marcia Crooks
Address: 18 Bob White Lane

On behalf of the owner, Dan A. Speakman of Dan A. Speakman Construction is applying for variances from the State Environmental Code, Title 5, and Harwich Board of Health Regulations as following:

Variances from 310 CMR 15.211-Minimum Setbacks

1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 14' from the foundation where 20' is required. Variance request of 6'.
2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 6' from the property line where 10' is required. Variance request of 4'.

Variances from Harwich Board of Health Regulation 1.210

1. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 56' from the top of coastal bank where 100' is required. Variance request of 54'.
2. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 54' from the top of coastal bank where 100' is required. Variance request of 56'.
3. Per Harwich Board of Health Regulation 1.210: To allow the proposed pump chamber to be 48' from the top of coastal bank where 50' is required. Variance request of 2'.
4. Per Harwich Board of Health Regulation 1.210: To allow the septic tank to be 39' from the top of coastal bank where 50' is required. Variance request of 11'.
5. Per Harwich Board of Health Regulation 1.210: To allow the proposed septic tank to be 37' from the top of coastal bank where 50' is required. Variance request of 13'.

The applicant is proposing to upgrade the septic system for the property located at 18 Bob White Lane. The plan shows a proposed 1500 gallon septic tank, 1000 gallon pump chamber, distribution box, and soil absorptions system. The existing septic tank will be pumped and filled with clean sand. The existing dwelling contains three (3) bedrooms and there are no plans for additions or alterations to the dwelling at this time. The proposed septic system has been designed for three (3) bedrooms. Variances are being requested due site constraints and the location of the coastal bank and bordering vegetated wetland that abut the property.

I recommend approval with conditions (please see suggested motion, Option 2, below).

SUGGESTED MOTIONS FOR BOARD CONSIDERATION

IF THE BOARD IS NOT READY TO VOTE, DO NOT CLOSE THE PUBLIC HEARING, BUT CONTINUE THE HEARING TO A DATE AND TIME CERTAIN (OPTION #1).

OPTION #1: If the Board requires additional information, or wants to take the matter under advisement, the following motion is recommended: Move to continue the hearing for 18 Bob White Lane to no earlier than 7:00 PM on _____ (Next meeting Date is June 15, 2021) for the following reason(s): *Need to provide reasons for the continuance- additional information, take under advisement, etc.*

IF THE BOARD IS READY TO CLOSE THE PUBLIC HEARING AND VOTE:

OPTION #2: Move to approve the variance request for 18 Bob White Lane from Variances from 310 CMR 15.211- To allow the proposed soil absorption system to be 14' from the foundation where 20' is required, variance of 6'. To allow the proposed soil absorption system to be 6' from the property line where 10' is required, variance of 4'. Variances from Harwich Board of Health Regulation 1.210. To allow the proposed soil absorption system to be 56' from the top of coastal bank where 100' is required, variance of 54'. To allow the proposed soil absorption system to be 54' from the top of coastal bank where 100' is required, variance of 56'. To allow the proposed pump chamber to be 48' from the top of coastal bank where 50' is required, variance of 2'. To allow the septic tank to be 39' from the top of coastal bank where 50' is required, variance of 11'. To allow the proposed septic tank to be 37' from the top of coastal bank where 50' is required, variance of 13'. With the following conditions:

1. No increase in square footage or habitable space without review by the Board of Health.
2. The property shall be deed restricted to a maximum of 3 bedrooms.
3. Variances and conditions are to be recorded at the Barnstable County Registry of Deeds.

OPTION #3: Move to deny the variance request at 18 Bob White Lane (*state reason*).



**Town of Harwich
Board of Health**

732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

Office Use Only	
Filing Fee Paid/Amount:	4125-
Check #/Cash:	12592
Date App Received:	5/4/21
Meeting Date:	5/18/21
Date Approved:	
Date Denied:	
Reason for Denial:	

Application for Board of Health Variances



Date: 3/24/21

Property Address: 18 Bob White Lane

Map: 17 Parcel: GH

Book: 1181 Page: 380 Land Court No: _____

Name of Applicant: Dan A. Speakman

Applicant Mailing Address: 15 Speak Way
Harwich, MA 02645
City State Zip Code

Applicant Telephone Number: (508) 432-5565

Applicant E-Mail Address: danaspelman@hotmail.com

Owner(s) of Record: Marcia Crooks

Owner(s) Mailing Address: 425 Lake Street
Bellington, MA 02019
City State Zip Code

Design Engineer/Sanitarian: DAVID MASON

Firm/Company Name: DAN A. SPEAKMAN CONST.

Mailing Address: 15 SPEAK WAY,
HARWICH, MA 02645
City State Zip Code

Telephone Number: 774-836-0859

Design Engineer/Sanitarian E-Mail Address: DM@

Please Choose Application Type:

Voluntary Upgrade: _____ Addition/Alteration: _____ Failed System: _____ EIR: _____
 Other: _____

Conservation Commission Approval Required: No: _____ Yes: Date of CC Hearing: 5/5/2021

List All Variances from State & Local Codes

Title 5, Section #	Description of Variance(s):
Title 5 15.211 per 15.405 &	-Reduction in setback from fndn. to SAS from 20' to 14'-6' var. req.
Town of Harwich reg.:	-Reduction in set back from prop. line to SAS from 10' to 6'-4' var. req. from the Harwich Health regs
	-Reduction in setback from top coastal bank to SAS to 54'
	-Reduction in setback from top coastal bank to SAS to 56'
	-Reduction in setback from top coastal bank to P.C. to 48'
	-Reduction in setback from top coastal bank to S.T. to 39'
	-Reduction in setback from top coastal bank to S.T. to 37'

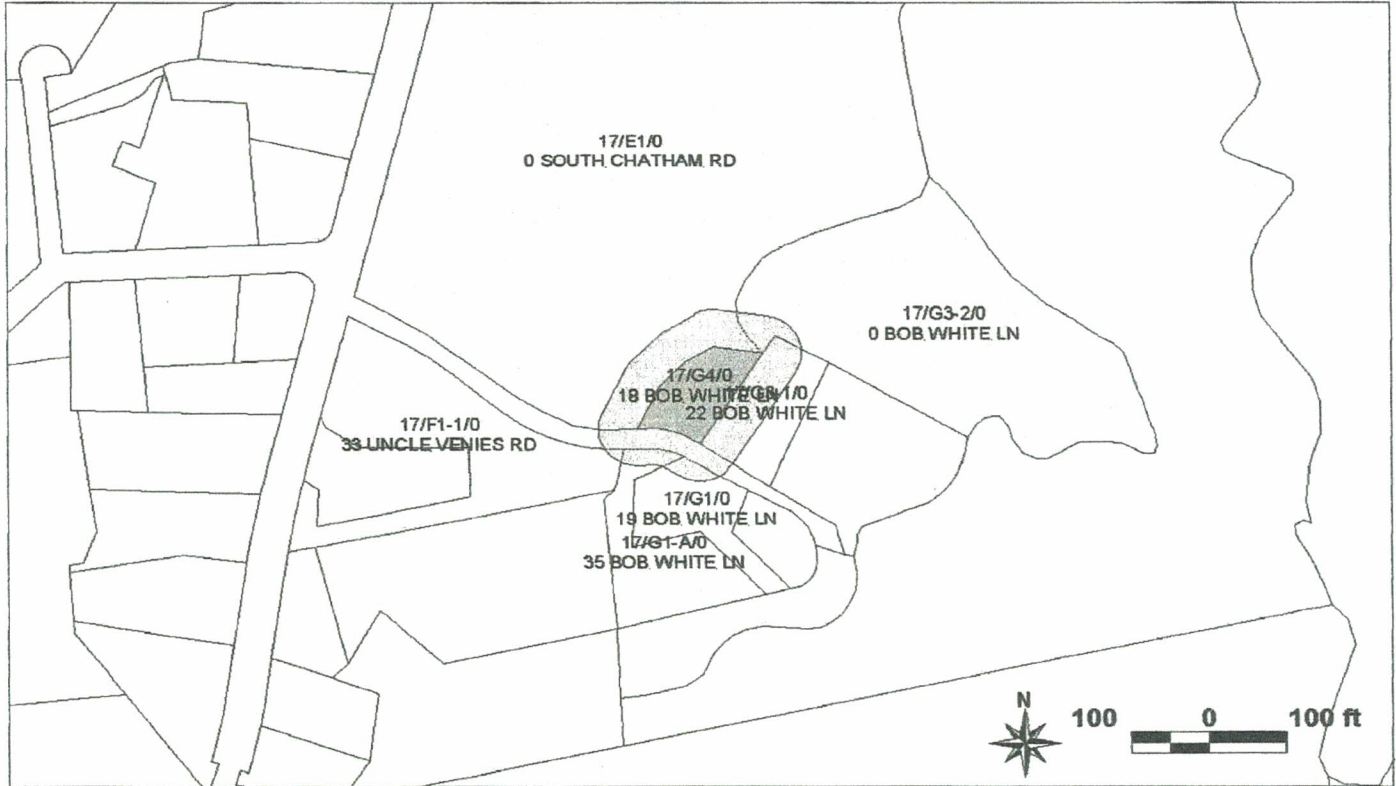
In addition to this form, 8 packets of the following must be submitted by 4:00 p.m. on the filing deadline date:

- Letter to Board of Health
- Letter to abutters (bring certified mail receipts to the meeting)
- Copy of certified abutter list
- Existing variance letter (if applicable)
- Floor plans (all floors/existing & proposed)
- Site plan
- Filing Fee \$125.00 (Variance)/\$300.00 (EIR)



TOWN OF HARWICH, MA
 BOARD OF ASSESSORS
 732 Main Street, Harwich, MA 02645

Abutters List Within 50 feet of Parcel 17/G4/0



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
2270	17-E1-0-E	HARWICH CONSERVATION TRUST	0 SOUTH CHATHAM RD	PO BOX 101	S HARWICH	MA	02661
22786	17-F1-1-0-R	BUTLER PATRICIA D	33 UNCLE VENIES RD	5 ROLLINS PL	BOSTON	MA	02114
8686	17-G1-0-R	KALOGEROPOULOS TEDDY TRS KALOGEROPOULOS CAMILLE M TRS	19 BOB WHITE LN	15 KINGS ROW	N READING	MA	01884
2372	17-G1-A-0-R	MCKENZIE BETH ANN TRS ET AL MCKENZIE DONEL TRS	35 BOB WHITE LN	PO BOX 85	S HARWICH	MA	02661
8688	17-G3-1-0-R	BLESS STUART R TRS ET AL CONDON RICHARD J III TRS	22 BOB WHITE LN	10 ALGONQUIN DR	NATICK	MA	01760-6095
12752	17-G3-2-0-E	HARWICH TOWN OF - CONSERVATION	0 BOB WHITE LN	732 MAIN ST	HARWICH	MA	02645
2375	17-G4-0-R	CROOKS MARCIA A	18 BOB WHITE LN	37 SEAGULL LN	W DENNIS	MA	02670

DAN A. SPEAKMAN CONSTRUCTION
LAND SURVEYING & TITLE V ENGINEERING DIVISION

15 SPEAK WAY
NORTH HARWICH, MASSACHUSETTS 02645

Phone: (508) 432-5565
Fax: (508) 432-5099
Email: Danaspeakman@hotmail.com

Date: 4/9/2021

Dear Abutor:

In accordance with the Town of Harwich minimum requirements for the subsurface disposal of sanitary sewage, you are being informed, as an abutter, that variances are being requested as follows:

From Title V 15.211 per 15.405 & Harwich Health Regs:

- 1.) Reduction in setback from foundation to SAS from 20' to 14' – 6' variance request
- 2.) Reduction in setback from prop. Line to SAS from 10' to 6' – 4' variance request from the Harwich Health regulations
- 3.) Reduction in setback from top coastal bank to SAS to 54'
- 4.) Reduction in setback from top coastal bank to SAS to 56'
- 5.) Reduction in setback from top coastal bank to P.C. to 48'
- 6.) Reduction in setback from top coastal bank to S.T. to 39'
- 7.) Reduction in setback from top coastal bank to S.T. to 37'

For: 18 Bob White Lane

A hearing will be held at 7pm, May 18th, 2021. You are being notified, per Harwich Board of Health Regulations, as an abutter of the property. The hearing is scheduled for May 18th at 7:00 p.m. Pursuant to Governor Baker's March 12, 2020 order suspending certain provisions of the open meeting law, G.L. c. 30A, section 20, and the Governor's March 15, 2020 order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the order. The agenda, including dial-in instructions, will be posted on the Town of Harwich website www.town.harwich.ma.us “

DAN A. SPEAKMAN CONSTRUCTION
LAND SURVEYING & TITLE V ENGINEERING DIVISION

15 SPEAK WAY
NORTH HARWICH, MASSACHUSETTS 02645

Phone: (508) 432-5565
Fax: (508) 432-5099
Email: Danaspeakman@hotmail.com

Date: 3/24/21

Town of Harwich
Board of Health
732 Main Street
Harwich, MA 02645

Re: 18 Bob White Lane variance request

Dear Members of the Board:

This letter is a request for variances from Title V and the Harwich Health Regulations as follows:

Title V: Section 15.211 per 15.405(1)

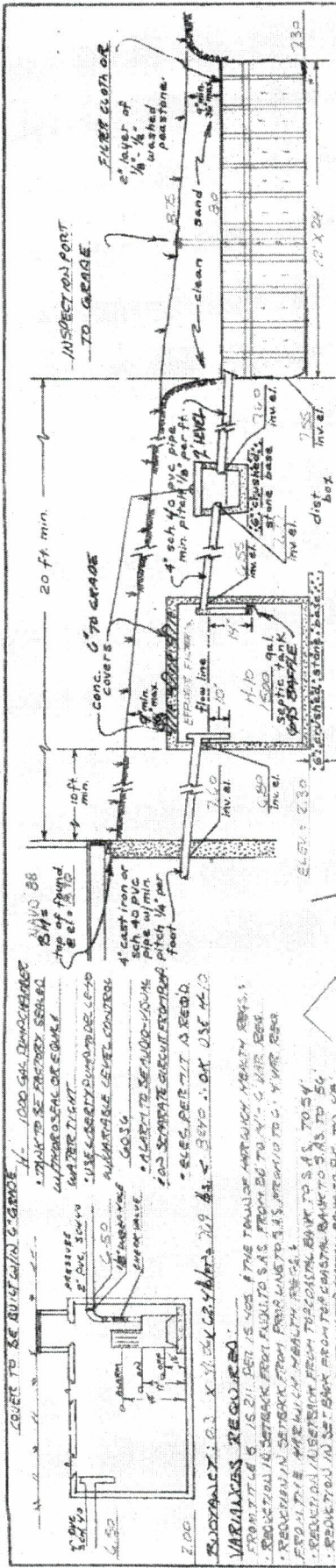
- 1) Reduction in setback from foundation to S.A.S: from 20' to 14' - 6' - variance request
- 2) Reduction in setback from prop. line to S.A.S: from 10' to 6' - 4' - variance request from the Harwich Health Regs.
- 3) Reduction in setback from topcoastal bank to S.A.S: to 54'
- 4) Reduction in setback from topcoastal bank to S.A.S: to 56'
- 5) Reduction in setback from topcoastal bank to P.C.: to 48'
- 6) Reduction in setback from topcoastal bank to S.T.: to 39'
- 7) Reduction in setback from topcoastal bank to S.T.: to 37'

Respectfully submitted



Dan A. Speakman

date



SEWAGE SYSTEM PROFILE
not to scale

ground water table elev. 2.20
bottom test hole elev. 2.00

S.A.S. TO EXHAUST OF (3) POUNDS OF
E8. CULTIC FIELD DRAIN CONTAINER
S.A.S. UNITS - 4' X 8' X 8' SYNT. MAT. W/ 1-
1/2" HT. - EFF. LEACHING 5.07
* HIGH GROUND WATER DETERMINED
SEE TITLE 5 - 1016.10

TEST HOLE LOG
TEST DATE: FEB 2, 1962
WITNESSED BY: J. H. DICKEL
PERCOLATION RATE: 1.2 MIN/INCH
PERFORMED BY: DEWILSON, G.S.E.

HOLE 1	HOLE 2
15'	15'
17'	17'
18'	18'
20'	20'
21'	21'
22'	22'
23'	23'
24'	24'
25'	25'
26'	26'
27'	27'
28'	28'
29'	29'
30'	30'
31'	31'
32'	32'
33'	33'
34'	34'
35'	35'
36'	36'
37'	37'
38'	38'
39'	39'
40'	40'
41'	41'
42'	42'
43'	43'
44'	44'
45'	45'
46'	46'
47'	47'
48'	48'
49'	49'
50'	50'
51'	51'
52'	52'
53'	53'
54'	54'
55'	55'
56'	56'
57'	57'
58'	58'
59'	59'
60'	60'

DESIGN DATA

NUMBER OF BEDROOMS: 3
GARAGE DISPOSAL UNIT: 1
TOTAL ESTIMATED FLOW
(12) GAL/BR/DAY X 3 BR = 36 GAL/DAY
REQ. SEPTIC TANK CAPACITY: 100 GAL
ACTUAL SEPTIC TANK SIZE: 1500 GAL

LEACHING CAPACITY OF 2 ROWS OF
3 SA CULTIC FIELD DRAIN CONTAINERS
IS 3.5 GAL/ROW/24 HRS = 84 GAL

NOTES

- 1) ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO DEP. TITLE 5, RULES AND REGULATIONS FOR SUBSURFACE DISPOSAL OF SEWAGE.
- 2) COMPLIANCE WITH ZONING REGULATIONS SHALL BE DETERMINED BY BUILDING INSPECTOR/COMMISSIONER.
- 3) EXISTING AND FINAL GRADES SHALL REMAIN ESSENTIALLY THE SAME.
- 4) THE INSTALLER SHALL VERIFY THE LOCATION OF ALL UTILITIES (SEWER, GAS, ETC.) PRIOR TO INSTALLATION.
- 5) ALL SYSTEM COMPONENTS TO BE APPROVED BY THE STATE DEPARTMENT OF HEALTH.

DATE APPROVED: _____, AGENT

SITE PLAN OF PROPOSED CONSTRUCTION

LOCATION: 15 SPEAKMAN CONSTRUCTION, LAND SURVEYING F.TITLE I ENGINEERING DIV., 15 SPEAKMAN CONSTRUCTION, MA 508-132-5565

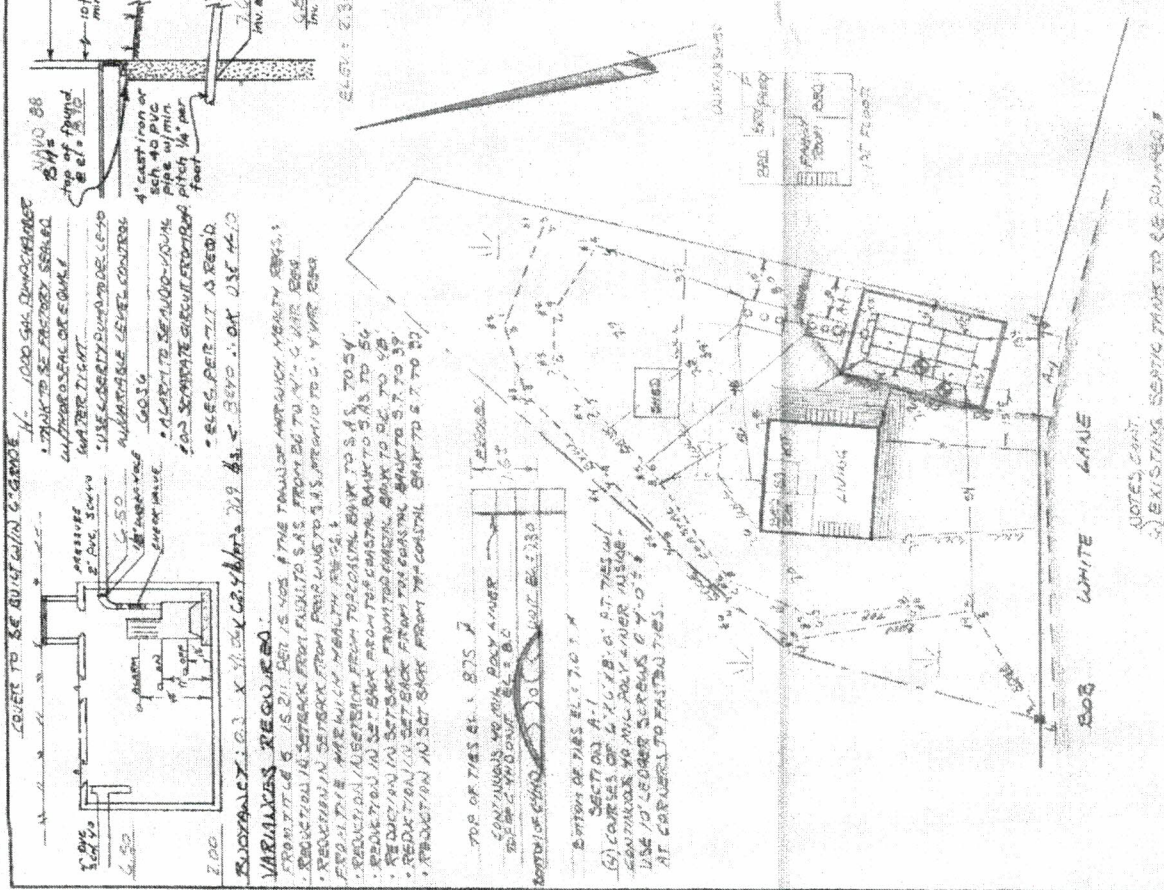
REFERENCE: ASSES. PLAN 7-1962-4, DEP. OF HEALTH 230-382

PREPARED FOR: MARCH 2, 1962

SCALE: AS SHOWN

DATE: MARCH 2, 1962

DATE APPROVED: _____, AGENT



NOTES CONT.

- 1) EXISTING SEPTIC TANK TO BE REMOVED & REPLACED WITH 1500 GAL. PER TITLE 5 A. 1016.10.
- 2) EXISTING SEPTIC TANK TO BE REMOVED & REPLACED WITH 1500 GAL. PER TITLE 5 A. 1016.10.

LEGEND

--- Existing Spot elev. 0.0
--- Existing Contour 0.0
--- Prop. plan. contour 0.0
--- Test hole location

LOCATION MAP
SCALE: 1" = 20'

V-C.

**BOARD OF HEALTH MEETING- SITE SUMMARY
MAY 18, 2021**

To: Board of Health
From: Kathleen O'Neill, Health Director
Engineer: Daniel Croteau/Moran Engineering Associates, LLC
Owner: Kathleen Zak Reis, Trustee of the Kathleen Zak Reis Revocable Trust
Address: 4 Eastern Avenue

On behalf of the owner, Daniel Croteau of Moran Engineering Associates, LLC, is applying for variances from the State Environmental Code, Title 5 and Harwich Board of Health Regulations as following:

Variances from 310 CMR 15.211(1)-Minimum Setbacks

1. Per 310 CMR 15.211: To allow the proposed septic tank to be 5' from the East lot line where 10' is required. Variance request of 5'.
2. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the East lot line where 10' is required. Variance request of 5'.
3. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the North lot line where 10' is required. Variance request of 5'.
4. Per 310 CMR 15.211: To allow the proposed septic tank to be 5' from the crawl space where 10' is required. Variance request of 5'.
5. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 5' from the slab foundation where 10' is required. Variance request of 5'.

Variances from Harwich Board of Health Regulation 1.210

1. Per Harwich Board of Health Regulation 1.210: To allow the proposed septic tank to be 36' from the coastal bank where 50' is required. Variance request of 12'.
2. Per Harwich Board of Health Regulation 1.210: To allow the proposed soil absorption system to be 60' from the coastal bank where 100; is required. Variance request of 40'.

The applicant is proposing to remove the existing four (4) bedroom house and construct a new four (4) bedroom dwelling for the property located at 4 Eastern Avenue. No new variances are being created by this project from what would be needed for the upgrade of the septic system for the existing house to a current Title 5 system. The proposed septic system shows a 0.5 MicroFAST 1500 gallon septic tank, 1000 pump chamber and soil absorption system. I/A Treatment (MicroFAST) is proposed to allow for the reduction in the leaching area size, and to improve the treatment of effluent. The septic system has been designed for (4) bedrooms.

I recommend approval with conditions (please see suggested motion, Option 2, below).

SUGGESTED MOTIONS FOR BOARD CONSIDERATION

IF THE BOARD IS NOT READY TO VOTE, DO NOT CLOSE THE PUBLIC HEARING, BUT CONTINUE THE HEARING TO A DATE AND TIME CERTAIN (OPTION #1).

OPTION #1: If the Board requires additional information, or wants to take the matter under advisement, the following motion is recommended: Move to continue the hearing for 4 Eastern Avenue to no earlier than 7:00 PM on _____ (Next meeting Date is June 15, 2021) for the following reason(s): *Need to provide reasons for the continuance- additional information, take under advisement, etc.*

IF THE BOARD IS READY TO CLOSE THE PUBLIC HEARING AND VOTE:

OPTION #2: Move to approve the variance request for 4 Eastern Avenue from Variances from 310 CMR 15.211- Per 310 CMR 15.211 to allow the proposed septic tank to be 5' from the East lot line where 10' is required, variance of 5'. To allow the proposed soil absorption system to be 5' from the East lot line where 10' is required, variance of 5'. To allow the proposed soil absorption system to be 5' from the North lot line where 10' is required, variance of 5'. To allow the proposed septic tank to be 5' from the crawl space where 10' is required, variance of 5'. To allow the proposed soil absorption system to be 5' from the slab foundation where 10' is required, variance of 5'. Variances from Harwich Board of Health Regulation 1.210 to allow the proposed septic tank to be 36' from the coastal bank where 50' is required, variance request of 12'. To allow the proposed soil absorption system to be 60' from the coastal bank where 100 is required, variance of 40'. With the following conditions:

1. No increase in square footage or habitable space without review by the Board of Health.
2. The property shall be deed restricted to a maximum of 4 bedrooms.
3. Variances and conditions are to be recorded at the Barnstable County Registry of Deeds.
4. The alternative septic system must be under an operation and maintenance contract for the life of the system.
5. The alternative septic system must be tested and maintained in accordance with the Health Department's requirements for testing.

OPTION #3: Move to deny the variance request at 4 Eastern Avenue (*state reason*).



**Town of Harwich
Board of Health**

732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

Office Use Only	
Filing Fee Paid/Amount:	\$125-
Check #/Cash:	3705
Date App Received:	5/5/21
Meeting Date:	5/18/21
Date Approved:	
Date Denied:	
Reason for Denial:	

Application for Board of Health Variances

Date: 5/4/2021

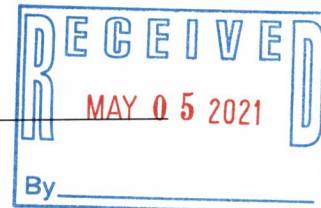
Property Address: 4 Eastern Avenue

Map: 6 Parcel: G3-8

Book: 20831 Page: 243 Land Court No: _____

Name of Applicant: Kathleen Reis

Applicant Mailing Address: 9308 Rapallo St



<u>Naples</u>	<u>FL</u>	<u>34119</u>
City	State	Zip Code

Applicant Telephone Number: 612-940-1234

Applicant E-Mail Address: joereis123@gmail.com

Owner(s) of Record: Kathleen Zak Reis, Trustee of the Kathleen Zak Reis Revocable Trust

Owner(s) Mailing Address: 9308 Rapallo St

<u>Naples</u>	<u>FL</u>	<u>34119</u>
City	State	Zip Code

Design Engineer/Sanitarian: Daniel Croteau

Firm/Company Name: Moran Engineering Assoc., LLC

Mailing Address: PO Box 183

<u>So. Harwich</u>	<u>MA</u>	<u>02661</u>
City	State	Zip Code

Telephone Number: 508-432-2878

Design Engineer/Sanitarian E-Mail Address: moraneng@gmail.com

MORAN ENGINEERING ASSOCIATES, LLC

941 ROUTE 28, HARWICH

P.O. BOX 183
South Harwich, MA 02661

moraneng@gmail.com

O: 508-432-2878
F: 508-432-3501

Harwich Board of Health
732 Main Street
Harwich Center, MA 02645

April 28, 2021

Re: Septic System Upgrade Variance Request for 4 Eastern Ave., Harwich Port, MA.

Dear Member of the Harwich Board of Health,

On behalf of property owner Kathleen Reis, I respectfully request review of the following variances for the purpose of installing a new Title 5 septic system at the locus property.

Variances From 310 CMR 15.211 (1) Minimum Setback Distances:

1. Per 310 CMR: 14.405 (1) (a): Septic Tanks to east (road) property line: 10' required; 5' available.
(Variance request of 5')
2. Per 310 CMR: 14.405 (1) (a): S.A.S. to east (road) property line: 10' required; 5' available.
(Variance request of 5')
3. Per 310 CMR: 14.405 (1) (a): S.A.S. to north property line: 10' required; 5' available.
(Variance request of 5')
4. Per 310 CMR: 14.405 (1) (b): Septic Tanks to Crawl Space: 10' required; 5' available.
(Variance request of 5')
5. Per 310 CMR: 14.405 (1) (b): SAS to Slab: 10' required; 5.5' available.
(Variance request of 4.5')

Variances From Harwich B.O.H. Regulation 1.210:

6. Distance between Septic Tank and Coastal Bank: 50' required; 38' available.
(Variance request of 12')
7. Distance between SAS and Coastal Bank: 100' required; 60' available.
(Variance request of 40')

Note: The coastal bank is protected by a rock and cement revetment.

The proposed project involves the removal of the existing house and the construction of a new house. No new variances are created by this project from what would be needed for the upgrade of the septic system for the existing house to a current Title 5 system. I/A treatment is proposed to allow for the reduction in the leaching area size, and to improve the treatment of the effluent.

The hearing is requested for the Tuesday, May 18, 2021 BOH meeting

Sincerely,



Daniel Croteau, PE

Please Choose Application Type:

Voluntary Upgrade: ____ Addition/Alteration: X Failed System: ____ EIR: ____
 Other: _____

Conservation Commission Approval Required: No: ____ Yes: X Date of CC Hearing: 4/7/21

List All Variances from State & Local Codes

Title 5, Section # Variance Requested From	Description of Variance(s):
	Per 310CMR:15.405: Local Upgrade Approval
310CMR:15.211(1)	Dist. Between Septic Tanks and East Lot Line: 10' req., 5' proposed; 5' variance
310CMR:15.211(1)	Dist. Between SAS and East Lot Line: 10' req., 5' proposed; 5' variance
310CMR:15.211(1)	Dist. Between SAS and North Lot Line: 10' req., 5' proposed; 5' variance
310CMR:15.211(1)	Dist. Between Septic Tank and Crawl space: 10' req., 5' proposed; 5' variance
310CMR:15.211(1)	Dist. Between SAS and Slab: 10' req., 5.5' proposed; 4.5' variance
Harwich Reg. #	Description of Variance(s):
Reg 1.210	Dist. Between Septic Tank and Coastal Bank: 50' req., 38' proposed; 12' variance
Reg 1.210	Dist. Between SAS and Coastal Bank: 100' req., 60' proposed; 40' variance

In addition to this form, 8 packets of the following must be submitted by 4:00 p.m. on the filing deadline date:

- Letter to Board of Health
- Letter to abutters (bring certified mail receipts to the meeting)
- Copy of certified abutter list
- Existing variance letter (if applicable)
- Floor plans (all floors/existing & proposed)
- Site plan
- Filing Fee \$125.00 (Variance)/\$300.00 (EIR)

MORAN ENGINEERING ASSOCIATES, LLC

941 ROUTE 28, HARWICH

P.O. BOX 183
South Harwich, MA 02661

moraneng@gmail.com

O: 508-432-2878
F: 508-432-3501

Re : 4 Eastern Ave., Harwich Port, MA
Assess. Map 6, Parcel G3-8
Owner: Kathleen Zak Reis, Trustee of the Kathleen Zak Reis Revocable Trust Agreement

May 4, 2021

Dear Abutter of 4 Eastern Ave., Harwich Port

This letter serves to notify you, as an abutter, that there will be a hearing before the Harwich Board of Health for **#4 Eastern Ave., Harwich Port.** The owner is proposing to install a new Title-5 septic system to service the proposed house and is requesting local upgrade approvals as stated below.

Variances From 310 CMR 15.211 (1) Minimum Setback Distances:

1. Per 310 CMR: 14.405 (1) (a): Septic Tanks to east (road) property line: 10' required; 5' available.
(Variance request of 5')
2. Per 310 CMR: 14.405 (1) (a): S.A.S. to east (road) property line: 10' required; 5' available.
(Variance request of 5')
3. Per 310 CMR: 14.405 (1) (a): S.A.S. to north property line: 10' required; 5' available.
(Variance request of 5')
4. Per 310 CMR: 14.405 (1) (b): Septic Tanks to Crawl Space: 10' required; 5' available.
(Variance request of 5')
5. Per 310 CMR: 14.405 (1) (b): SAS to Slab: 10' required; 5.5' available.
(Variance request of 4.5')

Variances From Harwich B.O.H. Regulation 1.210:


6. Distance between Septic Tank and Coastal Bank: 50' required; 38' available.
(Variance request of 12')
7. Distance between SAS and Coastal Bank: 100' required; 60' available.
(Variance request of 40')

Note: Coastal Bank is protected by a rock and cement revetment.

You are being notified, per Harwich Board of Health Regulations, as an abutter of the property. The hearing is scheduled for Tuesday, May 18th, 2021 at 7:00 pm.

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §20, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order. The agenda, including dial-in instructions, will be posted on the Town of Harwich website: www.town.harwich.ma.us

Sincerely,

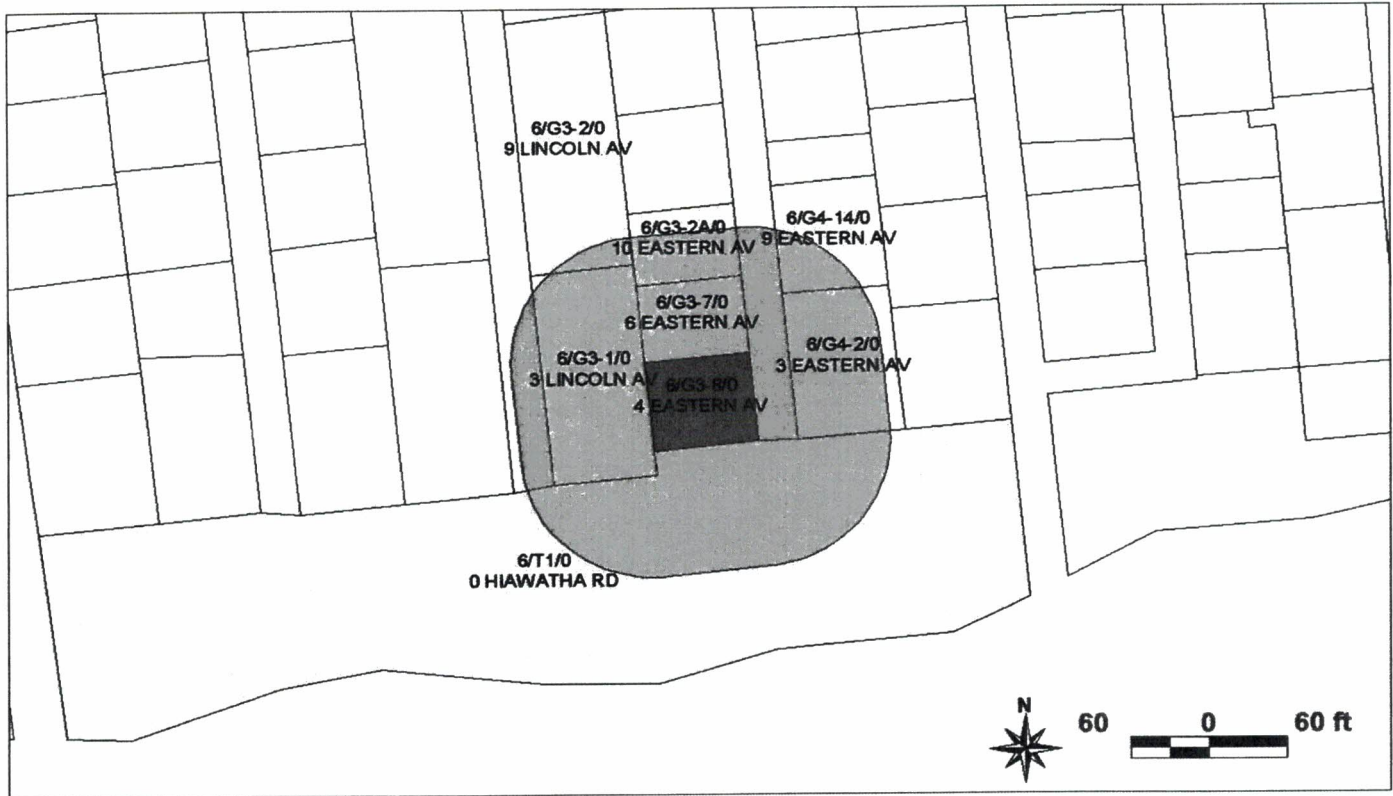


Daniel Croteau, PE



TOWN OF HARWICH, MA
 BOARD OF ASSESSORS
 732 Main Street, Harwich, MA 02645

Abutters List Within 100 feet of Parcel 6/G3-8/0



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
871	6-G3-1-0-R	DOLAN BRIAN TR DOLAN ELIZABETH TR	3 LINCOLN AV	6 SPRUCE MEADOW CT	WILTON	CT	06897
872	6-G3-2-0-R	STANTON ELEANOR P	9 LINCOLN AV	8853 REYNOLDS ST	PITTSBURGH	PA	15208
8179	6-G3-7-0-R	RIZZO MICHAEL A TRS ET AL RIZZO MARYANNE TRS	6 EASTERN AV	21 RIDGE RD	WALPOLE	MA	02081
875	6-G3-8-0-R	REIS KATHLEEN ZAK TR KATHLEEN ZAK REIS REV TRUST <i>Locus</i>	4 EASTERN AV	9308 RAPALLO ST	NAPLES	FL	34119 <i>Locus</i>
8174	6-G3-2A-0-R	GESING E FRANK ET AL GESING ELIN M	10 EASTERN AV	10 EASTERN AV	HARWICH PORT	MA	02646
877	6-G4-2-0-R	SANTOS RICHARD	3 EASTERN AV	3 EASTERN AVE	HARWICH PORT	MA	02646
888	6-G4-14-0-R	SCUDDER JOYCE W	9 EASTERN AV	C/O LAURIE HARROLD 121 1/2 SPRINGHOUSE LN	PITTSBURGH	PA	15238
895	6-T1-0-R	BURLINGAME DONNA TRS ET ALS WYNDEMERE BEACH TRUST	0 HIAWATHA RD	263 SERVICE RD	E SANDWICH	MA	02537

7012 2210 0002 2485 9890

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	



6-G3-1-0-R

Sent To
Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

DOLAN BRIAN TR
DOLAN ELIZABETH TR
6 SPRUCE MEADOW CT
WILTON, CT 06897

7012 2210 0002 2485 9845

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Total Postage & Fees	



6-G3-7-U-K

Sent To
Street, Apt. No.
or PO Box No.
City, State, ZIP

RIZZO MICHAEL A TRS ET AL
RIZZO MARYANNE TRS
21 RIDGE RD
WALPOLE, MA 02081

PS Form 3800, August 2006

See Reverse for Instructions

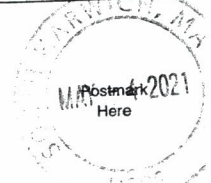
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Total Postage & Fees	



6-G4-14-R

Sent To
Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

SCUDDER JOYCE W
C/O LAURIE HARROLD
121 1/2 SPRINGHOUSE LN
PITTSBURGH, PA 15238

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Street, Apt. No.
or PO Box No.
City, State, ZIP

BURLINGAME DONNA TRS ET ALS
WYNDEMERE BEACH TRUST
263 SERVICE RD
E SANDWICH, MA 02537

PS Form 3800, August 2006

See Reverse for Instructions

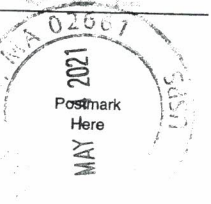
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	



6-G4-2-0-R

Sent To
Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

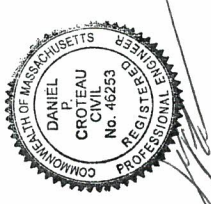
SANTOS RICHARD
3 EASTERN AVE
HARWICH PORT, MA 02646

PS Form 3800, August 2006

See Reverse for Instructions

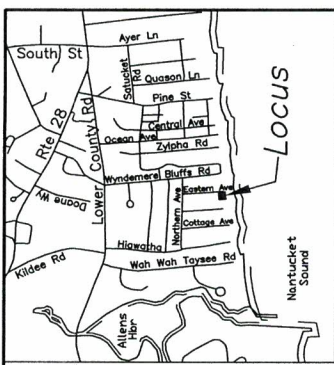
LEGEND

Existing Building	—————
Existing Deck	—————
Existing Fence	—————
Existing Contour
Existing Elevation
Proposed House	—————
Flood Zone limit
Wetland Resource Setback



LOCATION MAP

Assessors Map: 6
 Parcel: G3-8
 Deed Bk.20831, Pg.243
 Plan Bk 25, Pg 19, Lot 30
 & Plan Bk 262, Pg.42, Lot 1
 Property Area = 5,600 SF ±
 0.13 Ac ±



LOCAL UPGRADE APPROVAL REQUIRED

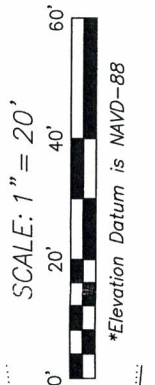
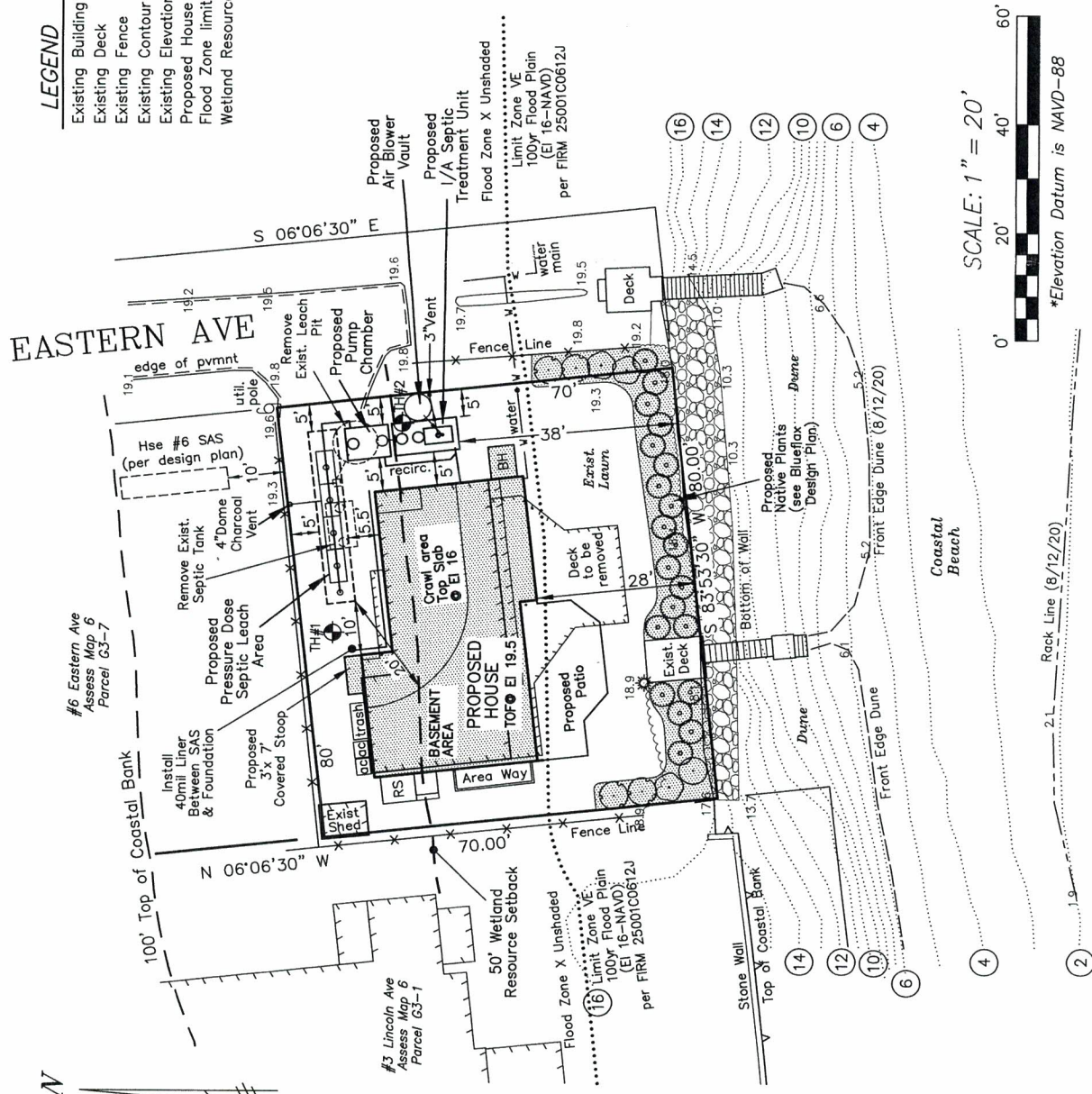
- VARIANCES FROM 310CMR15.211:(1)
 1.) Per 310CMR15.405(1)(a): Dist. Between East (Road) Lot Line & Septic Tanks: 10' Required; 5' Proposed
 2.) Per 310CMR15.405(1)(a): Dist. Between East (Road) Lot Line & S.A.S.: 10' Required; 5' Proposed
 3.) Per 310CMR15.405(1)(g): Dist. Between North Lot Line & S.A.S.: 10' Required; 5' Proposed
 4.) Per 310CMR15.405(1)(b): Dist. Between Crawlspace & Septic Tanks: 10' Required; 5' Proposed
 5.) Per 310CMR15.405(1)(b): Dist. Between Slab & S.A.S.: 10' Required; 5.5' Proposed

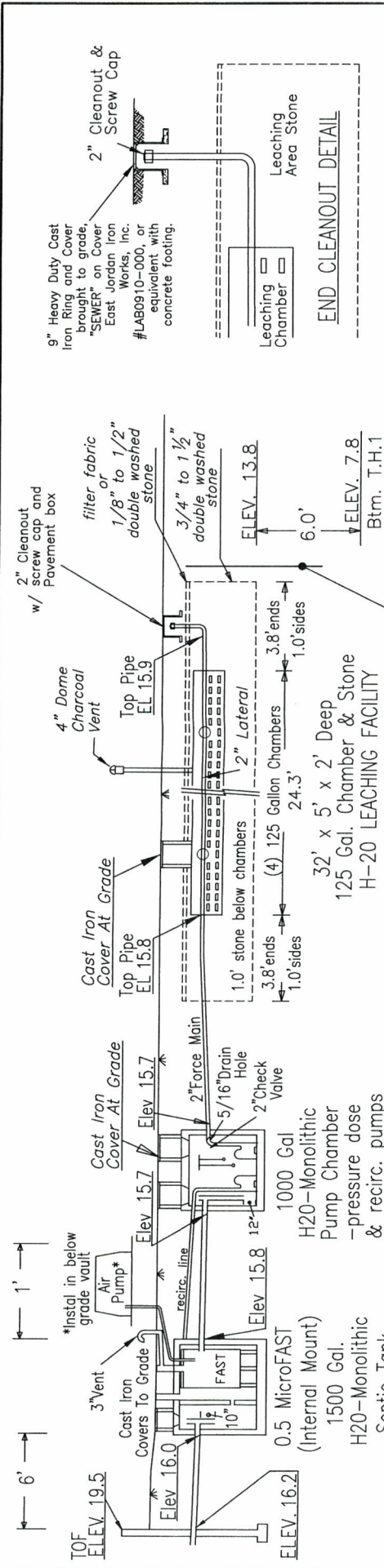
VARIANCES FROM HARWICH BOH REG 1.21.

- 6.) Dist. Between Septic Tank & Coastal Bank: 50' Required, 38' Proposed
 7.) Dist. Between Leaching Facility & Coastal Bank: 100' Required, 60' Proposed
 (Note: Coastal Bank is Protected by a Rock & Cement Revetment)

Sht: 1 of 3

MORAN ENGINEERING ASSOC., LLC
 508-432-2878 941 MAIN STREET (RTE 28), HARWICH, MA
PROPOSED SEPTIC SYSTEM DESIGN PLAN
 Prepared For: Joseph & Kathleen Reis
 4 EASTERN AVENUE HARWICH PORT, MA
 PROJECT: 20-178 DATE: 5/4/2021





SYSTEM PROFILE N. T. S.

* FORCE MAIN & LATERAL ARE TO BE SLOPED TO DRAIN BACK INTO THE PUMP CHAMBER AFTER EACH PUMP CYCLE.

TEST HOLE 1 El. = 18.8

Depth	Horizon	Texture	Color	Other
0-48"		Fill		
48-52"	A	Loamy Sand	10YR3/2	
52-76"	B	Loamy Medium Sand	10YR5/4	Very Friable
76-106"	C1	Medium-Coarse Sand	10YR6/4	Loose
106-132"	C2	Medium Sand	2.5Y6/4	Loose

Bottom Elev.: 7.8 No Groundwater Found

TEST HOLE 2 El. = 19.2

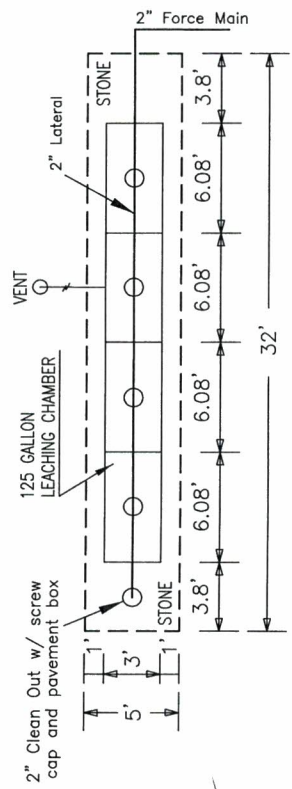
Depth	Horizon	Texture	Color	Other
0-34"		Fill		
34-38"	A	Loamy Sand	10YR3/2	
38-60"	B	Loamy Medium Sand	10YR5/6	Very Friable
60-120"	C	Medium-Coarse Sand	10YR6/4	Loose

Bottom Elev.: 9.2 No Groundwater Found

PERCOLATION TEST @ TH 2

24 GALLONS OF WATER IN 9 MIN. 51 SEC. WITH NO WATER REMAINING
 @ A DEPTH OF 72 INCHES IN C LAYER
 DESIGN RATE: < 2 MIN / IN

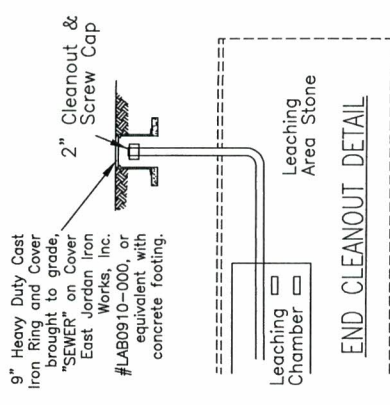
Date: 4/20/21, Performed By: Daniel P. Croteau, PE,
 Witness: Mark Poselli, HA



SAS CONSTRUCTION DETAIL

Design Flow: 4 bedrooms @ 110 gal/day = 440 gal.
 Septic Tank: 440 gal. x 200% = 880 gal.
 Use: 1500 Gal. Fast-1/A Compliant Septic Tank H-20 Monolithic
 Use: 1000 Gal. Pump Chamber H-20 Monolithic
 Leaching Facility: 32'x5'x2'deep Chamber and Stone SAS
 Bottom: 32' x 5' x 0.74 Gal/sf = 118 Gal
 Sides: (32+5')x2'x2x0.74Gal/sf = 109 Gal
 TOTAL = *227 Gal

*50% SAS Size Reduction requested per Remedial Use I/A Approval.
 Note: Garbage disposal is not permitted with this design.



END CLEANOUT DETAIL

SYSTEM DESIGN

Design Flow: 4 bedrooms @ 110 gal/day = 440 gal.
 Septic Tank: 440 gal. x 200% = 880 gal.
 Use: 1500 Gal. Fast-1/A Compliant Septic Tank H-20 Monolithic
 Use: 1000 Gal. Pump Chamber H-20 Monolithic
 Leaching Facility: 32'x5'x2'deep Chamber and Stone SAS
 Bottom: 32' x 5' x 0.74 Gal/sf = 118 Gal
 Sides: (32+5')x2'x2x0.74Gal/sf = 109 Gal
 TOTAL = *227 Gal

*50% SAS Size Reduction requested per Remedial Use I/A Approval.
 Note: Garbage disposal is not permitted with this design.

MORAN ENGINEERING ASSOC., LLC
 508-432-2878 941 MAIN STREET (RTE 28), HARWICH, MA
PROPOSED SEPTIC SYSTEM DESIGN PLAN
 4 EASTERN AVENUE HARWICH PORT, MA
 PROJECT: 20-178 DATE: 5/4/2021

ENGINEER REQUIRED INSPECTIONS

- 1.) DESIGN ENGINEER TO CERTIFY UNSUITABLE SOIL REMOVAL PRIOR TO S.A.S. INSTALLATION.
- 2.) DESIGN ENGINEER TO INSPECT LATERAL PRIOR TO INSTALLATION.
- 3.) DESIGN ENGINEER TO CERTIFY SYSTEM INSTALLATION (ELEVATIONS & LOCATIONS) AND OPERATION PRIOR TO BACKFILLING. 1/A Operator To Be On Site For Inspection & System Start-up.
- 4.) ENGINEER, TOWN HEALTH AGENT, AND FAST OPERATOR ARE TO WITNESS FAST START-UP & OPERATION.

GENERAL NOTES

- 1) DESIGN ENGINEER AND/OR 1/A REP. ARE TO BE CONTACTED FOR INSTALLATION INSTRUCTIONS AND SUPPORT.
- 2) ALL COMPONENTS ARE TO MEET TITLE 5 MATERIAL & CONSTRUCTION REQUIREMENTS.
- 3) SYSTEM COMPONENTS ARE TO BE SET ON A STABLE, COMPACTED BASE.
- 4) EXISTING SEPTIC TANK IS TO BE PUMPED AND REMOVED. EXISTING LEACH PIT IS TO BE PUMPED AND REMOVED ALONG WITH CONTAMINATED SOILS WITHIN 5' OF PROPOSED SAS.
- 5) A 5' UNSUITABLE SOIL OVER-DIG IS REQUIRED TO C SOIL LAYER (MEDIUM-COARSE SAND). DESIGNER SHALL BE NOTIFIED FOR INSPECTION PRIOR TO PLACEMENT OF TITLE 5 FILL.
- 6) COMPONENTS ARE TO BE WITHIN 3' OF FINISH GRADE & ARE TO HAVE A MINIMUM OF 1' OF SOIL COVER. ACCESS COVERS ARE TO BE BROUGHT TO FINISHED GRADE WITH CAST IRON COVERS.

*These Plans Are To Be Used In Conjunction With BIO-Microbics Micro-FAST unit Installation Instructions & DEP Remedial Use Approval Specifications.

**1/A Dealers, Design Engineer, and System Operator are to be consulted with and Notified of the Installation Time-Table prior to the start of Construction work.

***The owner of the system, shall at all times have a current, in-force Operations & Maintenance contract with a FAST approved operator.
Inspection Schedule per Harwich BOH & DEP approval is Required.

FAST 1/A NOTES

- 1.) USE C.I. COVERS TO GRADE OVER FAST TANK ACCESS PORTS.
- 2.) USE 3" VENT OFF OF 6" PVC FAST ACCESS PORT.
SLOPE VENT LINE CONTINUOUSLY TO FAST UNIT.
- 3.) USE 2" PVC PIPE TO BLOWER.
- 4.) PROVIDE ACCESS PORT TO GRADE OVER PUMP CHAMBER FOR EFFLUENT SAMPLING.
- 5.) LOCAL FAST UNIT DEALER: J&R ENGINEERED PRODUCTS, 508-771-5570

PUMP NOTES

- 1) Submersible Pump -Meyer Co.: SRM-4
- 2) 2" Force Main to drain back into pump chamber at the end of each pumping cycle. Use 5/16" Drain Hole following 2" Check Valve.
- 3) Alarm Panel - SJE Rhombus Tank Alert-1
- 4) Alarm is to be on a separate circuit from the pump
- 5) Pump Sequence:
 - a) Pump off El 12.5 (1'off tank btm)
 - b) Pump on El 13.0 (1.5'off tank btm)
 - c) Alarm on El 13.5 (2'off tank btm)
- 6) Quick Disconnect Fitting to be installed on horizontal line of force main for use when servicing or removing pump.
*Disconnect must be accessible from pump manhole without entering chamber.
- 7) Electrical Permit is required. Electric wiring is to be installed in conduit.

PRESSURE DOSE SAS NOTES

- 1.) PERFORATED 2" LATERAL IS TO BE PREPARED IN SHOP TO INSURE HOLE UNIFORMITY. USE 1/2" PERFORATIONS.
ALL PLASTIC BURS ARE TO BE CLEANED FROM HOLES AND PIPES.
- 2.) LATERAL IS TO BE INSTALLED WITH PERFS. AT PIPE CROWN.
- 3.) LATERAL AND FORCE MAIN ARE TO BE SLOPED TO DRAIN BACK INTO PUMP CHAMBER AFTER EACH PUMP CYCLE.



Sht:3of3

MORAN ENGINEERING ASSOC.,LLC

508-432-2878 941 MAIN STREET (RTE. 28), HARWICH, MA

SEPTIC SYSTEM NOTES & REQUIRED INSPECTIONS

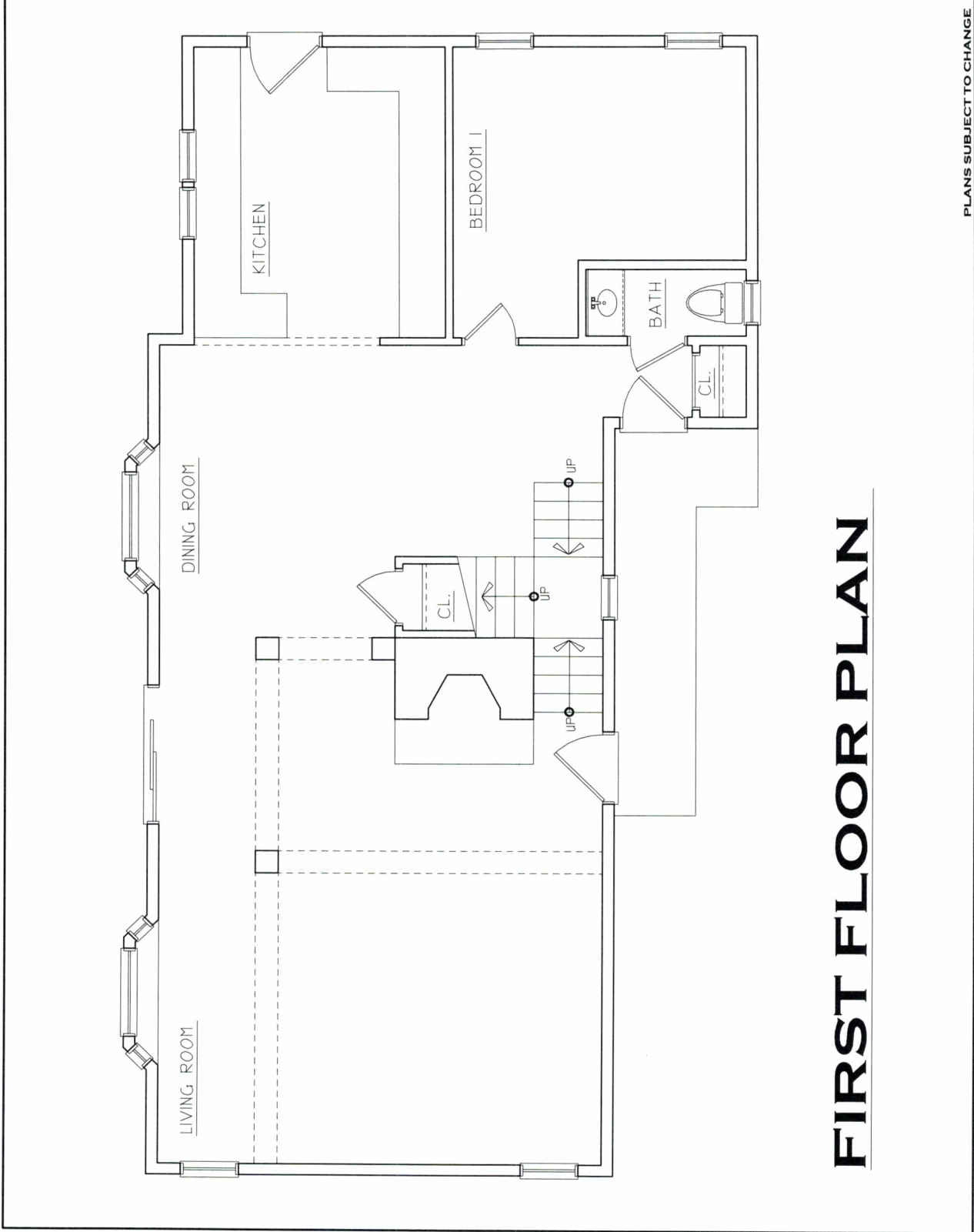
4 EASTERN AVENUE HARWICH PORT, MA

PROJECT: 20-178

DATE: 5/4/21

<p>KAREN B. KEMPTON AIA ARCHITECTURE 43 ANGELA WAY WEST BARNSTABLE, MA 02968 (508) 362-3447 (508) 362-1228 FAX karenkemp@comcast.net</p>	<p>REIS RESIDENCE 4 EASTERN AVENUE HARWICH PORT, MA</p>			<p>SCALE: 1/4"=1'-0"</p>	<p>EXISTING FIRST FLOOR PLAN</p>	<p>A-1</p>
--	---	--	--	--------------------------	--	------------

11/11/2020 8:40 AM



FIRST FLOOR PLAN

PLANS SUBJECT TO CHANGE
© COPYRIGHT 2006 / KAREN B. KEMPTON INC.
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Existing Floor Plans

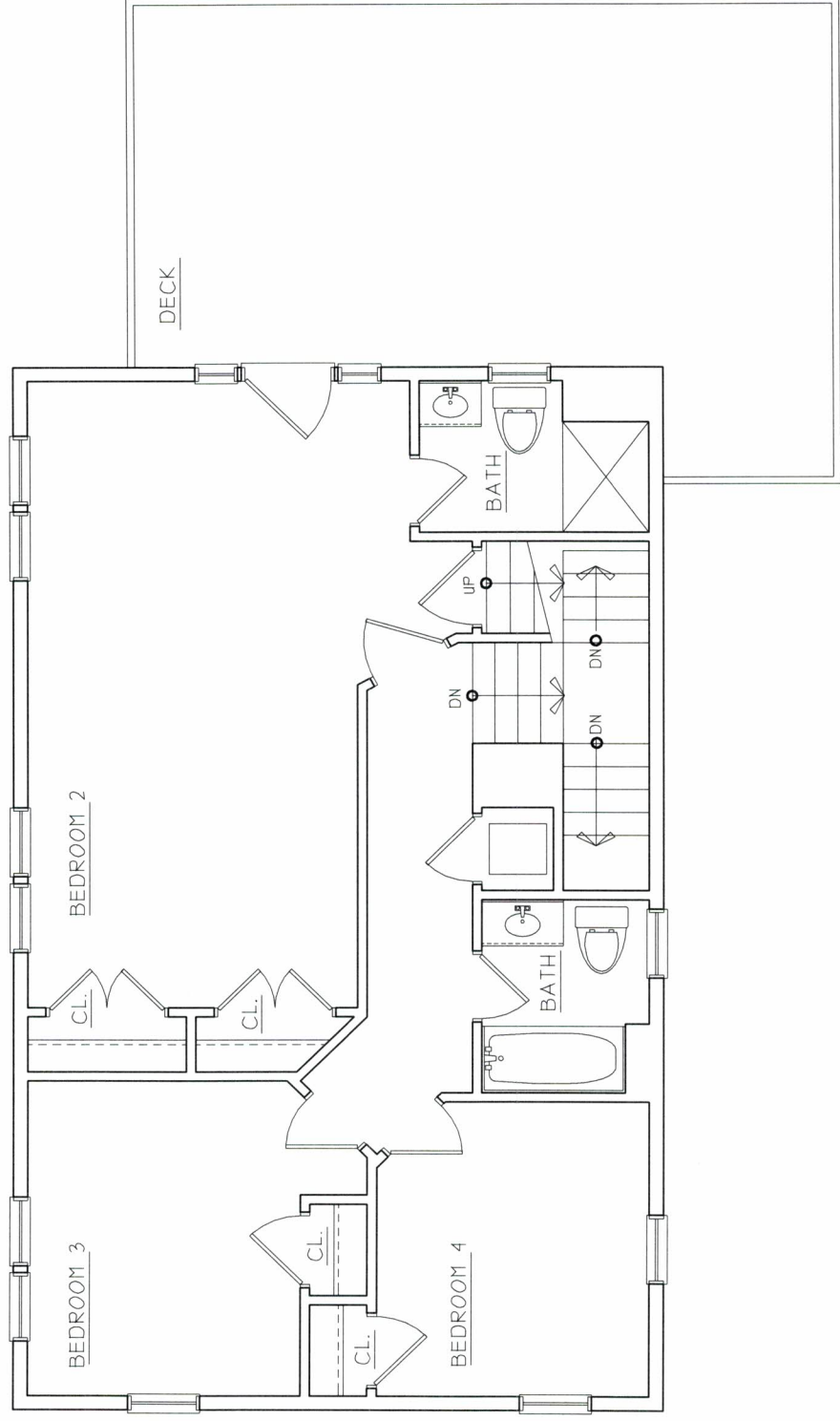
KAREN B. KEMPTON AIA
ARCHITECTURE
43 ANGELA WAY
WEST BARNSTABLE, MA 02669
(508) 362-3447 (508) 362-1296 FAX
karenkemp@comcast.net

REIS RESIDENCE
4 EASTERN AVENUE
HARWICH PORT, MA

SCALE: 1/4" = 1'-0"

EXISTING
SECOND
FLOOR PLAN

A-2



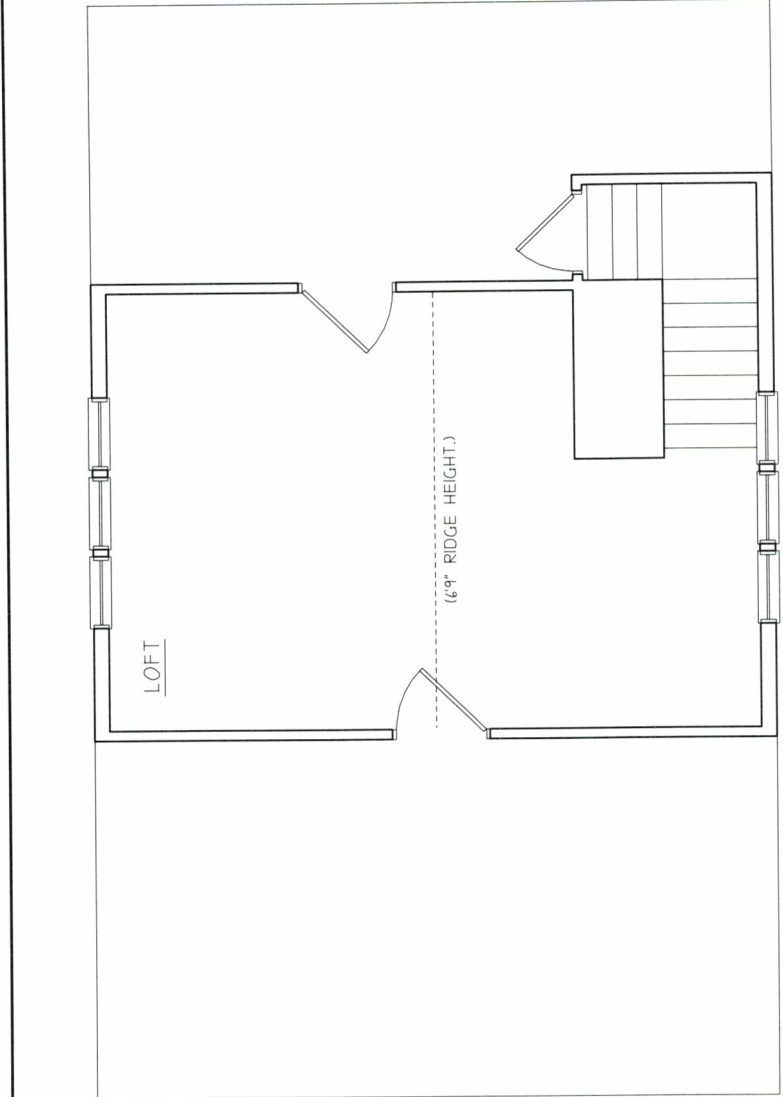
SECOND FLOOR PLAN

existing

PLANS SUBJECT TO CHANGE

© COPYRIGHT 2006 / KAREN B. KEMPTON INC.
C:\Data\CAD 17\Drawings\Reis\Reis Existing Conditions.aec

1/11/2020 8:40 AM



LOFT PLAN

existing

PLANS SUBJECT TO CHANGE

© COPYRIGHT 2006 / KAREN B. KEMPTON INC.
 C:\DataCAD 17\Drawings\Reis\Reis Existing Conditions.aec

11/11/2020 8:40 AM

A-3	EXISTING LOFT PLAN	SCALE: 1/4" = 1'-0"			<p>REIS RESIDENCE 4 EASTERN AVENUE HARWICH PORT, MA</p>	<p>KAREN B. KEMPTON AIA ARCHITECTURE 43 ANGELA WAY WEST HANSTABLE, MA 02666 (508) 362-3447 (508) 362-1236 FAX karenkempton@comcast.net</p>
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KAREN B. KEMPON AIA
 ARCHITECTURE
 43 ANGELA WAY
 WEST BARNSTABLE, MA 02668
 (508) 382-3147 (508) 382-1236 FAX
 karenkempion@comcast.net

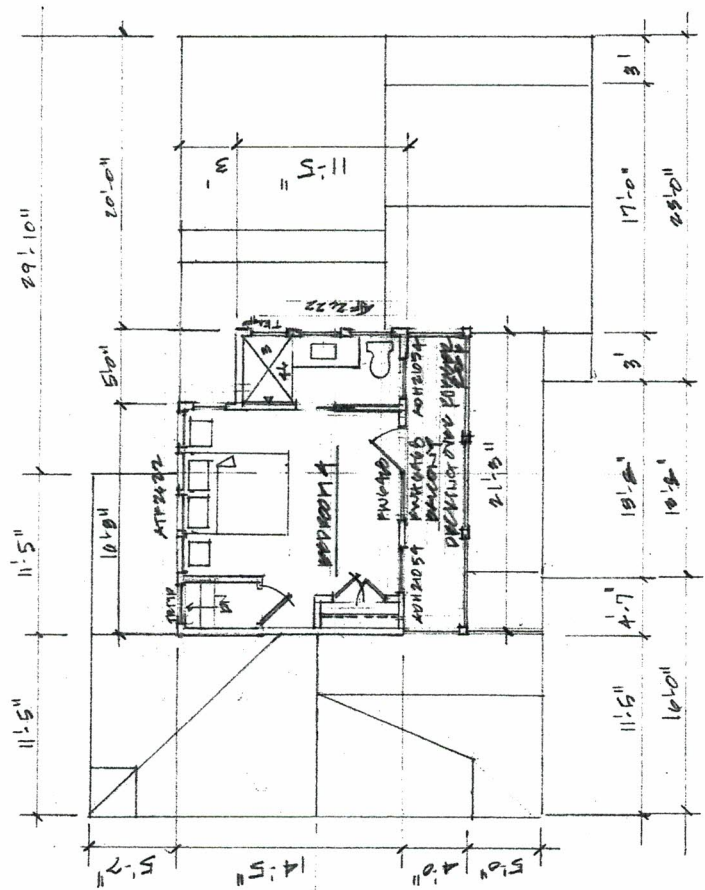
DATE: 4.1.202

REVISIONS

SCALE: 1/8" = 1'-0"

ATTIC PLAN

A-5



ATTIC PLAN 290 OK

Proposed

KARIN B. KEMPTON AIA
 ARCHITECTURE
 43 ANGELA WAY
 WEST BARNSTABLE, MA 02669
 (508) 362-3447 (508) 362-1238 FAX
 karinkempton@comcast.net

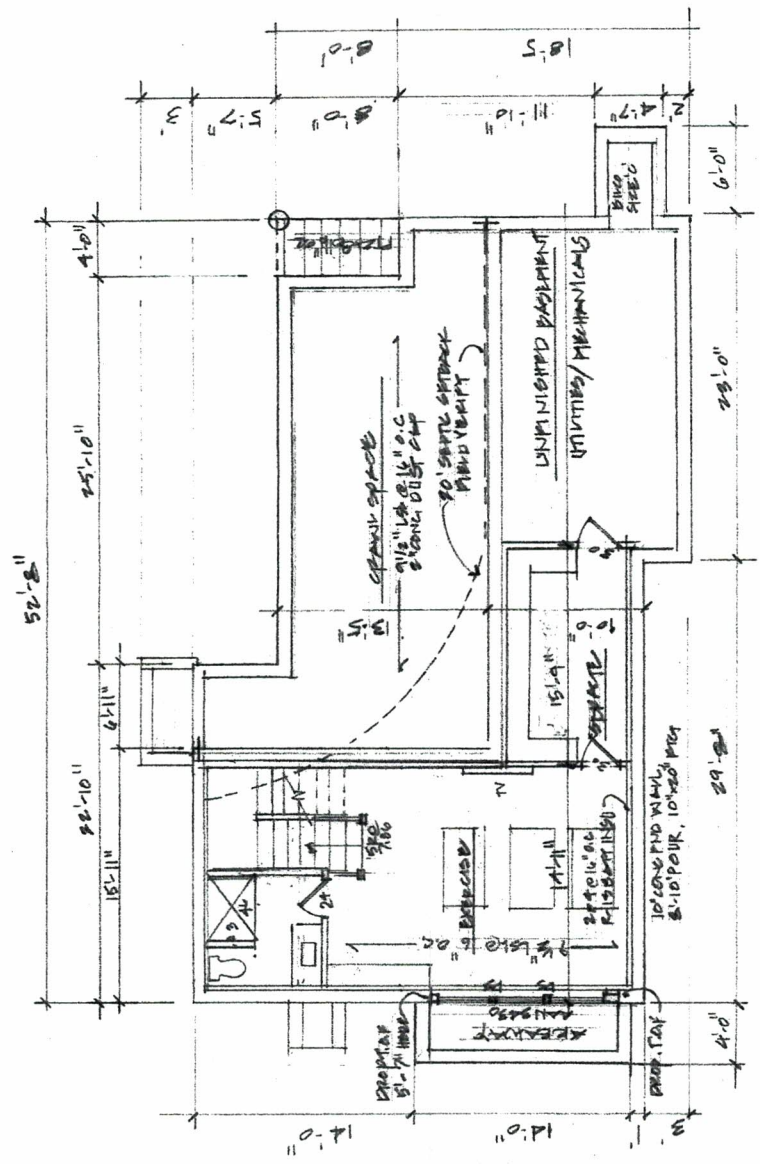
KEM PEARLANCE
 4 PEARL AVENUE
 HENRICH, MA

DATE: 4.1.2021
 REVISIONS:

SCALE: 1/8" = 1'-0"

FOUNDATION
 PLAN

A-6



FOUNDATION PLAN 577 SF

Proposed

V-D.

**BOARD OF HEALTH MEETING- SITE SUMMARY
MAY 18, 2021**

To: Board of Health
From: Kathleen O'Neill, Health Director
Engineer: Darren M. Meyer R.S./Meyer & Sons, Inc.
Owner: Peter R. Henricksen
Address: 17 Eastern Avenue

On behalf of the owner, Darren Meyer of Meyer & Sons, Inc. is applying for variances from the State Environmental Code, Title 5 as following:

Variance from 310 CMR 15.211-Minimum Setbacks

1. Per 310 CMR 15.211: To allow the proposed soil absorption system to be 10.3' from the dwelling where 20' is required. Variance request of 9.7'. (liner provided)
2. Per 310 CMR 15.221(7): To allow the proposed soil absorption system to be 3.67' below grade where 3' is required. Variance request of 0.67'. (vent/H-20 load provided)

The applicant is proposing to upgrade the failed septic system for the property located at 17 Eastern Avenue. The plan shows a proposed 1500 gallon septic tank, distribution box and soil absorption system. The existing dwelling contains four (4) bedrooms and there are no plans for additions or alterations to the dwelling at this time. The proposed septic system has been designed for four (4) bedrooms. The variances are being requested due to the limited lot size and the fact that the property sites a four (4) bedroom dwelling.

I recommend approval with conditions (please see suggested motion, Option 2, below).

SUGGESTED MOTIONS FOR BOARD CONSIDERATION

IF THE BOARD IS NOT READY TO VOTE, DO NOT CLOSE THE PUBLIC HEARING, BUT CONTINUE THE HEARING TO A DATE AND TIME CERTAIN (OPTION #1).

OPTION #1: If the Board requires additional information, or wants to take the matter under advisement, the following motion is recommended: Move to continue the hearing for 17 Eastern Avenue to no earlier than 7:00 PM on _____ (Next meeting Date is June 15, 2021) for the following reason(s): *Need to provide reasons for the continuance- additional information, take under advisement, etc.*

IF THE BOARD IS READY TO CLOSE THE PUBLIC HEARING AND VOTE:

OPTION #2: Move to approve the variance request for 17 Eastern Avenue from Variances from 310 CMR 15.211- To allow the proposed soil absorption system to be 10.3' from the foundation

where 20' is required, variance of 9.7'. To allow the proposed soil absorption system to be 3.67' below grade where 3' is required, variance of 0.67'. With the following conditions:

1. No increase in square footage or habitable space without review by the Board of Health.
2. The property shall be deed restricted to a maximum of 4 bedrooms.
3. Variances and conditions are to be recorded at the Barnstable County Registry of Deeds.

OPTION #3: Move to deny the variance request at 17 Eastern Avenue (*state reason*).



**Town of Harwich
Board of Health**
732 Main Street Harwich, MA 02645
508-430-7509 – Fax 508-430-7531
E-mail: health@town.harwich.ma.us

Office Use Only	
Filing Fee Paid/Amount:	\$125 -
Check #/Cash:	2959
Date App Received:	5/5/21
Meeting Date:	5/18/21
Date Approved:	
Date Denied:	
Reason for Denial:	

Application for Board of Health Variances

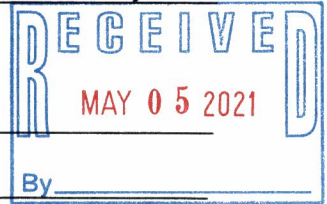
Date: May 5, 2021

Property Address: 17 EASTERN AVENUE HARWICHPORT, MA

Map: 06 Parcel: G4-6

Book: 27741 Page: 272 Land Court No: _____

Name of Applicant: PETER R. HENRIKSEN



Applicant Mailing Address: 51 OLD COUNTY RD.
HINGHAM MA 02043

City State Zip Code

Applicant Telephone Number: 781 733 4663

Applicant E-Mail Address: Henriksenfamily@comcast.net

Owner(s) of Record: SAME AS APPLICANT

Owner(s) Mailing Address: SAME AS APPLICANT

City State Zip Code

Design Engineer/Sanitarian: DARREN M. MEYER R.S.

Firm/Company Name: MEYER & SONS INC.

Mailing Address: PO Box 981
E. SANDWICH MA 02537

City State Zip Code

Telephone Number: (508) 360-3311

Design Engineer/Sanitarian E-Mail Address: meyerandsons@title5.com
gmail.com

Please Choose Application Type:

Voluntary Upgrade: ____ Addition/Alteration: ____ Failed System: EIR: ____
 Other: _____

Conservation Commission Approval Required: No: Yes: ____ Date of CC Hearing: _____

List All Variances from State & Local Codes

Title 5, Section #	Description of Variance(s):
	<i>Please See Attached</i>
Harwich Reg. #	Description of Variance(s):
	<i>Please see Attached</i>

In addition to this form, 8 packets of the following must be submitted by 4:00 p.m. on the filing deadline date:

- Letter to Board of Health
- Letter to abutters (bring certified mail receipts to the meeting)
- Copy of certified abutter list
- ~~N/A~~ Existing variance letter (if applicable)
- Floor plans (all floors/existing & proposed)
- Site plan
- Filing Fee \$125.00 (Variance)/\$300.00 (EIR)



May 5, 2021

Patricia M. Luyrink
21 Eastern Avenue
Harwichport, MA 02646

RE: Septic System Upgrade – Variance Requests
17 Eastern Avenue, Harwichport, MA

Dear Abutter,

This letter is to notify you of a hearing before the Harwich Board of Health scheduled on Thursday, May 18th at 7:00 pm at the Harwich Town Offices, 732 Main Street, Harwich, MA/via Virtual Meeting** to present the proposed septic system upgrade plan and the variances requested for the above referenced site. The proposed system design has taken into account requirements set for in 310 CMR 15.000 (Title V) and the Town of Harwich Board of Health Regulations.

The following variances are requested:

310CMR15.000/HARWICH REGULATIONS FOR SUBSURFACE SEWAGE DISPOSAL

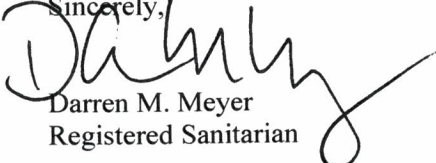
- 1) A 9.7 ft Variance from 310CMR15.211 to allow proposed leaching to be a minimum of 10.3 ft from dwelling vs required 20 ft. (liner provided)
- 2) A 0.67 ft variance from 310CMR15.221(7) to allow proposed leaching to be 3.67 ft below grade vs required 3.0 ft (vent/H-20 load provided)

As an abutter of the property in question state regulations require that you be notified of the hearing a minimum of ten (10) day prior to the hearing date.

You can review the application remotely through the Harwich Health Department, 732 Main Street, Harwich, MA.

If you have any further questions regarding this application, please feel free to contact me at (508) 360-3311 or attend the hearing on the scheduled date.

Sincerely,



Darren M. Meyer
Registered Sanitarian

*****Pursuant to Governor Baker's March 12, 2020 Order Suspending certain provisions of the Open Meeting Law, G.L. c. 30A, section 20, and the Governor's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place, this meeting of the Harwich Board of Health is being conducted via remote participation. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings as provided for in the Order. The agenda, including dial-in instructions, will be posted on the Town of Harwich website: www.town.harwich.ma.us***

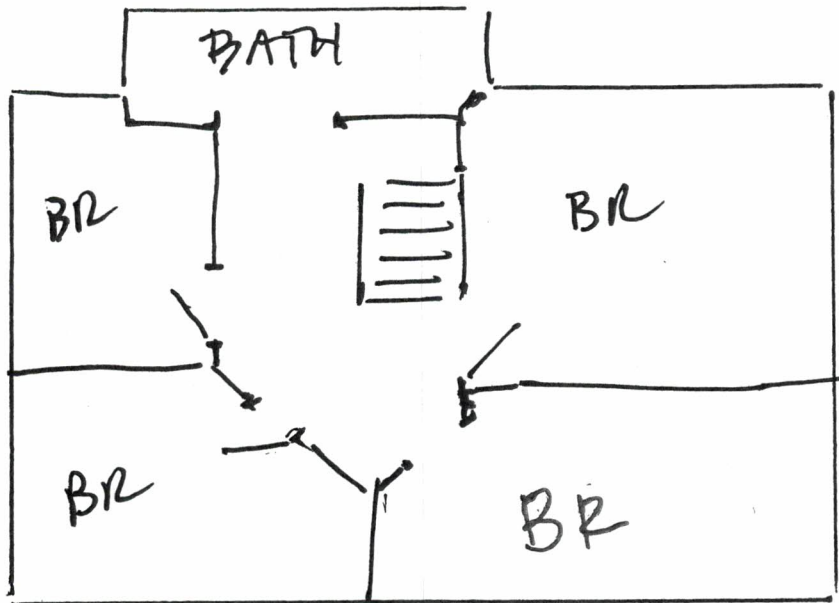


TOWN OF HARWICH, MA
 BOARD OF ASSESSORS
 732 Main Street, Harwich, MA 02645

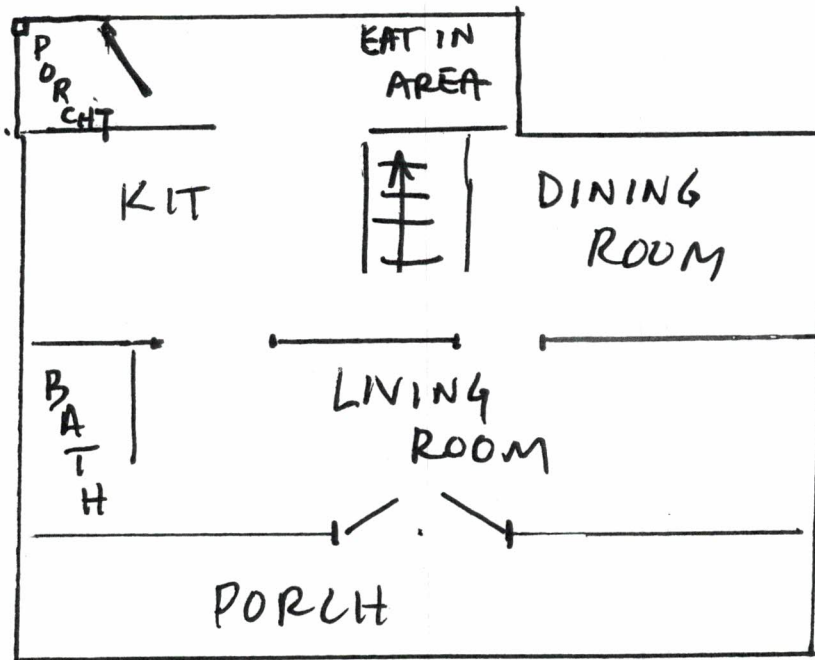
Abutters List Within 50 feet of Parcel 6/G4-6/0



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
874	6-G3-6-0-R	WEBSTER LEE M TR 18 EASTERN AVENUE REALTY TRUST	18 EASTERN AV	3400 GULF SHORE BLVD N UNIT C4	NAPLES	FL	34103
876	6-G3-10-0-R	LABADINI ROBERT C & LABADINI NORA J	14 EASTERN AV	12 RANDOLPH CIRCLE	WESTFORD	MA	01886
879	6-G4-5-0-R	MURPHY BARBARA B TR BARBARA B MURPHY 2009 FAMILY T	13 EASTERN AV	10 DARTMOUTH ST	WINCHESTER	MA	01890
880	6-G4-6-0-R	HENRIKSEN PETER R	17 EASTERN AV	51 OLD COUNTY RD	HINGHAM	MA	02043
881	6-G4-7-0-R	LUYRINK PATRICIA M	21 EASTERN AV	21 EASTERN AV	HARWICH PORT	MA	02646
883	6-G4-9-0-R	LACOUTURE PAUL A & LACOUTURE KAREN	20 WYNDEMERE BLUFFS RD	15449 MILAN WAY	NAPLES	FL	34110
884	6-G4-10-0-R	DONAHUE ROBERT S TRS ET AL DONAHUE ROSANN P TRS	16 WYNDEMERE BLUFFS RD	16 WYNDEMERE BLUFFS RD	HARWICH PORT	MA	02646
885	6-G4-11-0-R	CLARKE ROSE ANN	12 WYNDEMERE BLUFFS RD	12 WYNDEMERE BLUFFS RD	HARWICHPORT	MA	02646



2ND FLOOR



1ST FLOOR

FLOOR PLAN

17 EASTERN AVENUE
HARWICH PORT, MA

* BASEMENT IS AN UNFINISHED CAPE COD CELLAR



April 26, 2021

Pamela Howell, R.N. Chair
Harwich Board of Health
732 Main Street
Harwich, MA 02645

RE: Septic System Upgrade – Variance Requests
17 Eastern Avenue, Harwich, MA

Dear Chairperson Howell,

This letter is a request to be placed on the next Board of Health meeting (May 18, 2021) for variances relating to a septic system upgrade at 17 Eastern Avenue. This is strictly an upgrade of a failed system for an existing four bedroom dwelling and is not an increase in flow.

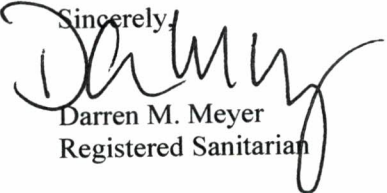
The variances requested are necessary because of limited lot size and the fact that the property sites a four bedroom dwelling.

Variances requested are:

- 1) Variance from 310CMR15, 9.7' from dwelling, vs 20' (liner provided)
- 2) Variance from 310CMR221(7), 3.67' below grade, vs 3' (H-20 provided)

If you have any further questions regarding this application, please feel free to contact me at (508) 360-3311.

Sincerely,









Darren M. Meyer
Registered Sanitarian



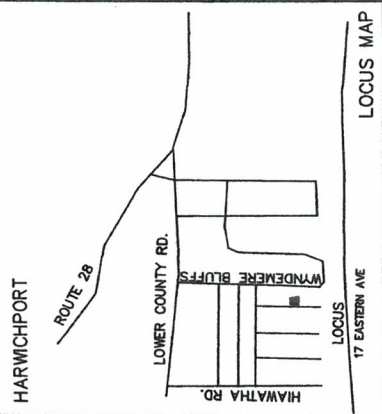
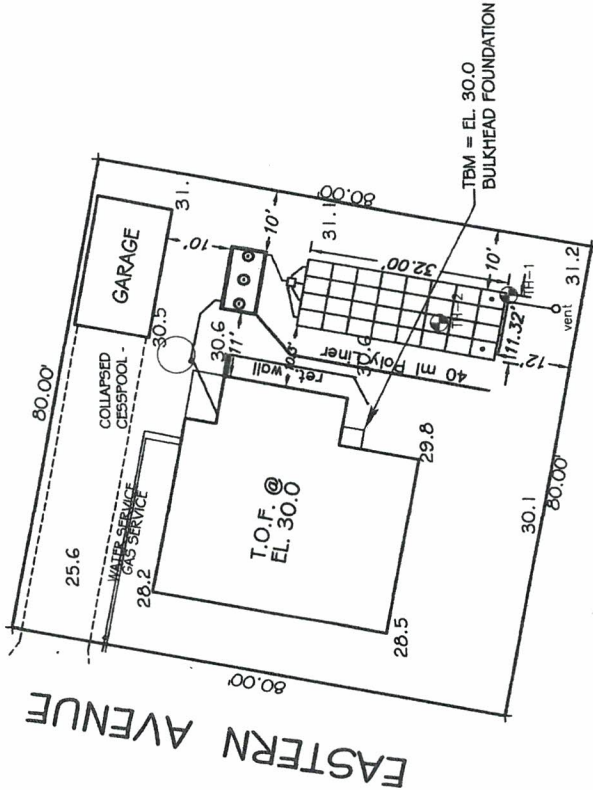
310CMR15.000/HARWICH REGULATIONS FOR SUBSURFACE SEWAGE DISPOSAL

- 1) A 9.7 ft Variance from 310CMR15.211 to allow proposed leaching to be a minimum of 10.3 ft from dwelling vs required 20 ft. (liner provided)
- 2) A 0.67 ft variance from 310CMR15.221(7) to allow proposed leaching to be 3.67 ft below grade vs required 3.0 ft (vent/H-20 load provided)

LEGEND

-  PROPOSED CONTOUR
-  PROPOSED SPOT GRADE
-  EXISTING CONTOUR
-  EXISTING SPOT GRADE
-  + 96.52 EXISTING WATER SERVICE
-  EXISTING WATER SERVICE
-  TEST PIT

SCALE 1"=20'



LOCUS INFORMATION

PLAN REF: 015/081
 TITLE REF: 27743/272
 PARCEL ID: MAP 006 PAR. 04-6
 FLOOD ZONE: NOT IN FLOOD ZONE

**SEPTIC SYSTEM
 REPAIR PLAN**

LOCATED AT:
 17 EASTERN AVENUE
 HARWICHPORT, MA
 PREPARED FOR
 PETER R. HENRIKSEN

APRIL 7, 2021



SURVEY BY:
 WELLER AND ASSOC.

VARIANCE REQUESTS - MAXIMUM FEASIBLE COMPLIANCE

- PER 310 CMR 15.405 (1) (A)(B).
- 1) A 9.7' VARIANCE FROM 310 CMR 15.211 TO ALLOW PROP. LEACHING TO BE A MIN. OF 10.3' FROM DWELLING VS. REQ. 20' (LINER PROV.)
 - 2) A 0.67' VARIANCE FROM 310 CMR 15.221(7) TO ALLOW PROP. LEACHING TO BE 3.67' BELOW GRADE VS REQ'D 3' (H2O/VENT PROV.)

MEYER & SONS INC.
 P.O. Box 981
 E. SANDWICH, MA 02537
 PH. (508)360-3311
 fax (774)413-9468
 meyerandsonstitle5@gmail.com

GENERAL NOTES:

1. ALL CHANGES TO THIS PLAN MUST BE APPROVED BY THE LOCAL BOARD OF HEALTH AND THE DESIGN ENGINEER.
2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE STATE ENVIRONMENTAL CODE, TITLE V, AND ANY APPLICABLE LOCAL RULES AND REGULATIONS, EXCEPT LISTED ON PAGE 1.
3. THE SEWAGE DISPOSAL SYSTEM SHALL NOT BE BACKFILLED PRIOR TO OBTAINING APPROVAL OF THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
4. ANY CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFERING FROM THOSE SHOWN HEREON SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION CONTINUES.
5. ALL ELEVATIONS BASED ON ASSUMED DATUM.
6. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR OR OWNER TO NOTIFY THE LOCAL BOARD OF HEALTH FOR PROPER INSPECTIONS DURING CONSTRUCTION.
7. DWELLING IS SERVICED BY MUNICIPAL WATER.
8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AGREED UPON BETWEEN OWNER AND CONTRACTOR.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, PRIOR TO STARTING WORK.
10. EXISTING CESSPOOLS TO BE PUMPED, CRUSHED AND REMOVED PER TITLE 5. REPLACE WITH CLEAN MEDIUM SAND.
11. 48 HOUR NOTICE FOR ENGINEER CERTIFICATION
12. THIS PLAN IS TO BE USED FOR SEPTIC SYSTEM PURPOSES ONLY AND IS NOT TO BE CONSIDERED A PROPERTY LINE SURVEY
13. NO KNOWN PRIVATE WELLS WITHIN 100 FT. OF PROPOSED LEACHING
14. ALL PIPING TO BE 4" SCH 40 @ 1/8" FT (UNLESS SPEC.)
15. THE DESIGN OF THIS SYSTEM DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER.
16. NO WETLANDS WITHIN 100 FT. OF PROPOSED LEACHING.
17. INSTALLER TO VERIFY ALL OUTLETS PRIOR TO INSTALLATION.
18. INSTALL 40 ml POLY LINER AS SHOWN FROM EL. 27.0-23.0 TO PREVENT BASEMENT INFILTRATION.

DESIGN CRITERIA

NUMBER OF BEDROOMS: 4 BEDROOM DESIGN
 DESIGN FLOW: RESIDENTIAL: 4 BEDROOMS @ 110 GPD/BR = 330 GPD
 DESIGN PERCOLATION RATE: <2 MIN/IN SOIL TEXTURAL CLASS: CLASS I (0.74 GPD/SF)
 GARBAGE GRINDER: NO (not designed for garbage grinder)
 DISTRIBUTION BOX: USE DB-5 (H20)
 SEPTIC TANK: 440 gpd x 200% = 880 gpd USE PROP. 1,500 GAL SEPTIC TANK
 LEACHING AREA REQUIRED: (3300)/.74 = 445.94 S.F.
 PRIMARY S.A.S. USE 4 ROWS OF 8 - INFILTRATOR QUICK 4 HI-CAP UNITS--NO STONE
 BOTTOM AREA: (GENERAL USE APPROVAL FOR 4.73 SF/LF OF CHAMBER) 32 UNITS x 4 LF x 4.73 SF/LF = 605.44 SF
 TOTAL AREA = 605.44 SF
 DESIGN FLOW PROVIDED: 0.74GPD/SF(605 SF) = 447 GPD > 440 GPD req'd

SOIL LOGS

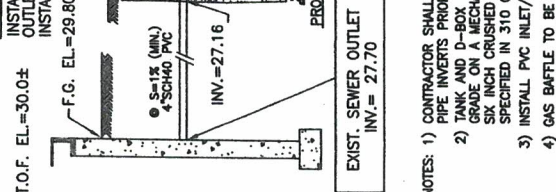
DATE: MARCH 2, 2021
 SOIL EVALUATOR: DARREN M. MEYER, RS, CSE
 WITNESS: KATHLEEN O'NEILL, HARWICH HEALTH

TP-1	Depth	Env.
A	0"	30.80
B	12"	28.80
C	32"	28.13
	PERC TEST @ EL. 26.47	20.80

TP-2	Depth	Env.
A	0"	30.55
B	12"	29.55
C	38"	27.38
	PERC RATE <2 MIN/IN (C° HORIZON)	20.55

NO GROUNDWATER OBSERVED

SEPTIC SYSTEM PROFILE



TYPICAL SECTION



System Design and Site Plan by: MEYER & SONS, INC. PO BOX 881 EAST SANDWICH, MA 02537 608-582-2922

Prepared for: Henriksen

SCALE N.T.S.
 DRAWN DMAM
 DATE 04/07/21
 CHECKED DMAM
 SHEET NO. 2 of 2

PROPOSED SEPTIC SYSTEM UPGRADE PLAN
 17 EASTERN AVENUE, HARWICHPORT, MA