

MAIN OFFICE:
49 Herring Pond Road
Buzzards Bay, MA 02532
TEL: (508) 833-0070
FAX: (508) 833-2282



NANTUCKET OFFICE:
19 Old South Road
Nantucket, MA 02554
TEL: (508) 325-0044
www.brackeneng.com

April 2, 2024

Hand Delivery & Email [kshea@townofbourne.com]

Bourne Board of Health
Kaitlyn Shea, Assistant Health Agent
24 Perry Avenue
Bourne, MA 02532

RECEIVED

By Bourne Health Department at 9:01 am, Apr 03, 2024

**RE: Bourne Board of Health Variance/Waiver Request – Proposed Septic Upgrade
78 Sagamore Road (Map 4.1 Parcel 53)**

Dear Members of the Board:

On behalf of the owner/applicant, Sarah Garrity, please accept this letter as a request for the following variances to 310 CMR 15.00 (Title 5) & the Town of Bourne Health Regulations for a proposed septic installation at the above referenced property. We request the following *Local Upgrade Approval Waivers and Local Variances*:

- **310 CMR 15.405(1)(b) – A 0.5' Local Upgrade Approval Waiver from full compliance is requested for 3.5' of cover over a septic tank.**
- **310 CMR 15.405(1)(b) – A 1.4' Local Upgrade Approval Waiver from full compliance is requested for 4.4' of cover over a pump chamber.**
- **310 CMR 15.405(1)(f) – A 36' Local Upgrade Approval Waiver from full compliance is requested for a 14' setback from a Coastal Bank to a soil absorption system.**
- **A 136' local variance is requested from the BOURNE BOARD OF HEALTH Regulations for a 14' setback from a proposed soil absorption system to the top of a Coastal Bank.**

The proposed project includes the installation of a new Title 5 septic system. The proposed septic system is an Innovative/Alternative (I/A) septic system, consisting of a MicroFAST 0.5 Unit septic tank, and a Geo-Flow Drip Dispersal System. The employment of I/A technology will maintain the existing nitrogen loading on the property and better the situation by increasing groundwater separation.

Bracken Engineering, Inc. is requesting that the Bourne Board of Health deviate from the goal of full compliance by allowing the *Local Upgrade Approval Waivers and Local Variance* requested above. The above *Local Upgrade Approval Waivers and Local Variances* are being made because of the relatively small lot and its proximity to adjacent resource areas. The design provides the best treatment within the borders of the lot and confines of the existing resource areas.

Thank you for your time and consideration on this matter. We look forward to reviewing this project with the Board of Health at the April 10th Public Hearing. Should you have any questions regarding this project or require any further information please contact the undersigned at either 508-833-0070 or zac@brackeneng.com

Sincerely,

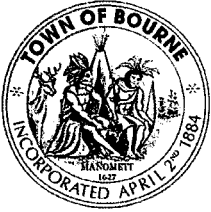
BRACKEN ENGINEERING, INC.

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

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

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

Jason P. Heyer, CFM
Project Designer



Bourne Board of Health Application for Septic Variance or Waiver Requests



In accordance with the established procedures of the Bourne Board of Health, this application is for septic variances and waivers which have not been approved administratively and require approval at a public meeting. Please use the following application form for guidance on how to apply for variances and waivers which serve new construction, changes in use, increases in flow, or repairs and upgrades to on-site sewage disposal systems with design flows of less than 10,000 gallons/ day.

1. Facility Name and Address:

Owner's Name

William J. Garrity & Sarah A. Garrity

Facility's Street Address

78 Sagamore Road

Owner's Telephone Number

617-839-2416

Owner's E-mail Address

sgarrity100@gmail.com

Owner's Mailing Address

1473 Great Plain Avenue, Needham, MA 02492

2. Applicant or Preparer's Name and Address (if different from above):

Preparer's Name

Zachary L. Basinski, PE, CFM

Company

Bracken Engineering, Inc.

Telephone Number

508-833-0070 Ext 303

E-mail Address

zac@brackeneng.com

Mailing Address

49 Herring Pond Road, Buzzards Bay, MA 02532

3. Type of Facility (check all that apply):

Residential Commercial Institutional School Industrial Mixed Use

4. Describe Facility (i.e. single-family dwelling, 45 seat restaurant): _____

Single-family dwelling with proposed addition.

5. Type of System Proposed (check all that apply): Conventional Title 5 I/A System

Pumped System Gravity System Pressure Dosed Tight Tank Other

6. Describe the existing and proposed septic system components: _____
Proposed 1,500 Gallon MicroFAST equipped septic tank, 1,000 Gallon pump chamber and 513 S.F.
Geo-Flow Drip Dispersal System with 486 L.F. of Drip Tubing spaced 1' on center.

7. Design Flow per 310 CMR 15.203 (in gallons/ day):

	EXISTING	PROPOSED
Design flow of system:	110 GPD	110 GPD
Total design flow of facility: <small>(if more than one system on subject property)</small>	333 GPD	379 GPD


8. Enclose a **letter of request for variances/waivers** which makes reference to the specific provisions of Title 5 and/ or the Board Bourne of Health Regulations for which a variance is sought. Please use this opportunity to demonstrate compliance with 310 CMR 15.410, and to justify the relevant facts and circumstances of the individual case. Note that with regard to variances for new construction, enforcement of the provision from which a variance is sought must be shown to deprive the applicant of substantially all beneficial use of the subject property in order to be manifestly unjust. Be sure to explain why full compliance with the applicable regulations is not feasible, and how a level of environmental protection that is at least equivalent to that provided under Title 5 and the Board of Health Regulations can be achieved without strict application of said regulations.

9. In order for this Application to be deemed complete, it must be accompanied by the following:


- \$125 filing fee + any other applicable permit application fees paid to the Town of Bourne.
- Application for a Disposal System Construction Permit (may be filled out by installer).
- Six copies of Letter of Request describing nature of variances.
- Six sets of complete engineered plans and specifications, one with original stamp of design engineer; plus, one electronic copy. All variances/ waivers must also be listed on the plans per 310 CMR 15.220(4).
- Six sets of floor plans, existing and proposed.
- Six copies of Nitrogen Loading Calculation Worksheet *required for all applications.
- If abutter notification is required, one of each of the following must be submitted:
 - A copy of the certified list of abutters from the Assessor's Department.
 - Sample letter for abutter notification postmarked 10 days prior to meeting date.
 - Proof of certified mailing (receipts) meeting requirements of 310 CMR 15.405(2).
- Proposals for installation of Innovative/Alternative septic systems must be accompanied by:
 - A copy of the Certification for Use including technology specific conditions.
 - Draft disclosure notice for the I/A technology to be recorded in the deed.
- Hydrogeologic data may be required for new leaching facilities proposed within 100ft of a wetland/watercourse.
- Percentage of Increase Worksheet may be required for waivers or increases in flow.

10. Certification:

"I certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Facility Owner's Signature  BRACKEN ENGINEERING, INC Date 4/2/2024
AGENT

Print Name Zachary L. Basinski, PE, CFM Bracken Engineering, Inc. as Agent

Signature of Preparer  BRACKEN ENGINEERING, INC Date 4/2/2024
AGENT

Print Name Zachary L. Basinski, PE, CFM Bracken Engineering, Inc. as Agent



Town of Bourne - Water Resources Nitrogen Loading and Mitigation Worksheet

See Cape Cod Commission Technical Bulletin 91-001 for further details: https://capecodcommission.org/resource-library/file/?url=/dept/commission/team/Website_Resources/regulatory/NitrogenLoadTechbulletin.pdf

Facility Address: 78 Sagamore Road
Preparer's Name: Bracken Engineering, Inc.
Date: 4/1/2024
Watershed: None

Project Nitrogen Load	Proposed Wastewater	New Construction/ Raze & Rebuild, Increases in Flow, or Repairs/ Upgrades		Existing Conditions													
<p>1. Project Title-5 wastewater flows: <input type="text" value="330.0"/> gpd (a)</p> <p>Actual wastewater flows: <input type="text" value="137.5"/> * (b)</p> <p>Average wastewater flows: <input type="text" value="233.8"/> gpd (a)+(b) +2= (A)</p> <p>* Title-5 flows prescribed by TB91-001 for commercial uses</p> <p>Place <input checked="" type="checkbox"/> in applicable box:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Will the project be connected to sewer ?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is project Title-5 wastewater flow 10,000 gpd or greater ?</p> <p>Place <input checked="" type="checkbox"/> in applicable box and multiply unsewered wastewater flow by applicable conversion factor:</p> <table style="font-size: small;"> <tr><td><input type="checkbox"/> Standard Title-5 System (35-ppm-N)</td><td>x</td><td>0.048359</td><td rowspan="4">} Type of system: _ MicroFast</td></tr> <tr><td><input type="checkbox"/> DEP-approved I/A System (25-ppm-N)</td><td>x</td><td>0.034542</td></tr> <tr><td><input checked="" type="checkbox"/> DEP-approved I/A System (19-ppm-N)</td><td>x</td><td>0.026252</td></tr> <tr><td><input type="checkbox"/> DEP-approved Enhanced I/A (12-ppm-N)</td><td>x</td><td>0.016580</td></tr> </table> <p>Wastewater nitrogen load (Title-5 flows) = <input type="text" value="8.66"/> kg-N/yr (B)</p> <p>Wastewater nitrogen load (Actual flows) = <input type="text" value="3.61"/> kg-N/yr (C)</p>	<input type="checkbox"/> Standard Title-5 System (35-ppm-N)	x	0.048359	} Type of system: _ MicroFast	<input type="checkbox"/> DEP-approved I/A System (25-ppm-N)	x	0.034542	<input checked="" type="checkbox"/> DEP-approved I/A System (19-ppm-N)	x	0.026252	<input type="checkbox"/> DEP-approved Enhanced I/A (12-ppm-N)	x	0.016580				<p>Calculate (A') through (P') as w/ (A) through (P):</p> <p>Title-5 wastewater flows: <input type="text" value="330.0"/> gpd</p> <p>Actual wastewater flows: <input type="text" value="137.5"/> * (A')</p> <p>Avg. wastewater flows: <input type="text" value="233.8"/> gpd (A')</p> <p>Place <input checked="" type="checkbox"/> in applicable box:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is existing development on sewer ? (If 'Yes', then go to line 2.)</p> <p><input type="checkbox"/> Standard Title-5 System</p> <p><input checked="" type="checkbox"/> DEP-approved I/A System (commercial)</p> <p><input type="checkbox"/> DEP-approved I/A System (residential)</p> <p><input type="checkbox"/> DEP-approved enhanced I/A</p> <p><input type="text" value="8.66"/> kg-N/yr (B')</p> <p><input type="text" value="3.61"/> kg-N/yr (C') wastewater offsets</p>
<input type="checkbox"/> Standard Title-5 System (35-ppm-N)	x	0.048359	} Type of system: _ MicroFast														
<input type="checkbox"/> DEP-approved I/A System (25-ppm-N)	x	0.034542															
<input checked="" type="checkbox"/> DEP-approved I/A System (19-ppm-N)	x	0.026252															
<input type="checkbox"/> DEP-approved Enhanced I/A (12-ppm-N)	x	0.016580															
Stormwater Runoff																	
Town of Bourne Recharge rate for Bourne (inches; for natural areas from Technical Bulletin 91-001): <input type="text" value="21"/> (RECH)																	
Project site area: <input type="text" value="0.324"/> acres (D)	Project site area: <input type="text" value="0.324"/> acres (D)			Project site area: <input type="text" value="0.324"/> acres (D)													
Project site wetland area: <input type="text" value="0.000"/> acres (E)	Project site wetland area: <input type="text" value="0.000"/> acres (E)			Project site wetland area: <input type="text" value="0.000"/> acres (E)													
Project site upland area: <input type="text" value="0.324"/> acres (F)	Project site upland area: <input type="text" value="0.324"/> acres (F)			Project site upland area: <input type="text" value="0.324"/> acres (F)													
Pervious unpaved upland: <input type="text" value="0.273"/> acres (G)	Pervious unpaved upland: <input type="text" value="0.273"/> acres (G)			Pervious unpaved upland: <input type="text" value="0.276"/> acres (G')													
<input type="text" value="0"/> % using LID Paved area: <input type="text" value="439"/> s.f. (H)	Paved area: <input type="text" value="439"/> s.f. (H)			Paved area: <input type="text" value="704"/> s.f. (H')													
Factor may be adjusted for employment of LID → LID = low impact development x 1.4158E-04 = <input type="text" value="0.06215538"/> kg-N/yr (I)	= <input type="text" value="0.06215538"/> kg-N/yr (I)			Paving runoff offset: <input type="text" value="0.0997"/> kg-N/yr (I')													
Roof area: <input type="text" value="1,785"/> s.f. (J)	Roof area: <input type="text" value="1,785"/> s.f. (J)			Roof area: <input type="text" value="1,366"/> s.f. (J')													
x 7.0792E-05 = <input type="text" value="0.1264"/> kg-N/yr (K)	= <input type="text" value="0.1264"/> kg-N/yr (K)			Roof runoff offset: <input type="text" value="0.0967"/> kg-N/yr (K')													
Fertilizer																	
Previous unpaved upland - roof area = Managed turf/ lawn area <input type="text" value="2,000"/> s.f. x 3.4019E-04 = <input type="text" value="0.680"/> kg-N/yr (L)	Managed turf/ lawn area <input type="text" value="2,000"/> s.f. x 3.4019E-04 = <input type="text" value="0.680"/> kg-N/yr (L)			Managed Turf/ lawn area: <input type="text" value="2,601"/> s.f. Fertilizer offset: <input type="text" value="0.885"/> kg-N/yr (L')													
Total Nitrogen Load																	
Total project nitrogen load (Title-5 flows): <input type="text" value="9.53"/> kg-N/yr (M)= (B)+(I)+(K)+(L)	Total project nitrogen load (Title-5 flows): <input type="text" value="9.53"/> kg-N/yr (M)			Existing nitrogen load (Title-5 flows): <input type="text" value="9.74"/> kg-N/yr (M')													
Total project nitrogen load (Actual flows): <input type="text" value="4.48"/> kg-N/yr (N)= (C)+(I)+(K)+(L)	Total project nitrogen load (Actual flows): <input type="text" value="4.48"/> kg-N/yr (N)			Existing nitrogen load (Actual flows): <input type="text" value="4.69"/> kg-N/yr (N')													
Nitrogen load per acre (Average): <input type="text" value="21.62"/> kg-N/yr/acre (O)= (M)+(N) +2 +(F)	Nitrogen load per acre (Average): <input type="text" value="21.62"/> kg-N/yr/acre (O)			Nitrogen offset per acre: <input type="text" value="22.28"/> kg-N/yr/acre (O')													
Proposed Nitrogen Loading Concentration				Existing nitrogen loading concentrations:													
Project nitrogen loading concentration (Title-5 flows): <input type="text" value="7.59"/> ppm-N (P)= (a)+723.76 + (G)x(RECH)+9.7286 + (H)+10,594 + (K)+0.75	Project nitrogen loading concentration (Title-5 flows): <input type="text" value="7.59"/> ppm-N (P)			Title-5 flows <input type="text" value="7.81"/> ppm-N (P')													
Project nitrogen loading concentration (Actual flows): <input type="text" value="4.53"/> ppm-N (Q)= (b)+723.76 + (G)x(RECH)+9.7286 + (H)+10,594 + (K)+0.75	Project nitrogen loading concentration (Actual flows): <input type="text" value="4.53"/> ppm-N (Q)			Actual flows <input type="text" value="4.78"/> ppm-N (Q')													
Project nitrogen loading concentration (Average): <input type="text" value="6.06"/> ppm-N (R)= (P)+(Q) +2	Project nitrogen loading concentration (Average): <input type="text" value="6.06"/> ppm-N (R)			Average <input type="text" value="6.29"/> ppm-N (R')													

Resource/ Impact Based Criteria

Marine Water Recharge Areas / Coastal Embayments

2. Yes No
Is the project located in any of the following watersheds: **Buttermilk Bay Basins, Phinneys Harbor / Back River / Eel Pond, Pocasset River Basin, Pocasset Harbor / Hen Cove / Red Brook Harbor, Megansett / Squeteague Harbors**** ?
(If 'No', then go to line 3.)

Name of Watershed
(from Regional Policy Plan Data Viewer): _____

Critical Nitrogen-loading limit** : kg-N/year/acre (S)

Does project's nitrogen load (O) exceed the existing load (O') AND the critical nitrogen load (S) ?
(If 'No', then go to line 3.)

Excess project nitrogen load to be mitigated: kg-N/yr (T)= LESSER OF (O)-(S) x(F) AND (O)-(O') x(F)

** When a nitrogen-loading limit has been determined through either a Total Maximum Daily Load (TMDL), a Massachusetts Estuaries Project-accepted technical report, or specified by a Commission-approved comprehensive wastewater management plan pursuant to Objective WR3, or if impaired water quality has been documented for the receiving coastal waters, the nitrogen loading limit shall be 0 kg-N/yr per acre pursuant to Objective WR3.

Groundwater Quality

3. Yes No
Does the project's nitrogen loading concentration in groundwater (R) exceed the greater of 5 ppm or the existing concentration (R') ?
(If 'Yes', the project will need to provide an alternative strategy for meeting these thresholds by using another worksheet)

Potential Public Water Supply Areas

4. Yes No
Is project in a Potential Public Water Supply Area (PPWSA) ?
(If 'No', then go to line 5.)

Does the project's nitrogen loading concentration (R) exceed the greater of 1 ppm or the existing concentration (R') ?
(If 'Yes', the project must provide an alternative strategy for meeting Objective WR1)

Does the project use, treat, generate, store or dispose of hazardous materials in excess of the greater of a) household quantities or b) existing quantities ?
(If 'Yes', the project must provide an alternative strategy for meeting Objective WR1)

Wellhead Protection Areas

5. Yes No
Is project in a Wellhead Protection Area (WHPA) ?

Does the project's nitrogen loading concentration (R) exceed the greater of 5 ppm or the existing concentration (R') ?
(If 'Yes', the project must provide an alternative strategy for meeting Objective WR1)

Does the project use, treat, generate, store or dispose of hazardous materials in excess of the greater of a) household quantities or b) existing quantities ?
(If 'Yes', the project must provide an alternative strategy for meeting Objective WR1)

Fresh Water Recharge Areas

6. Yes No
Is project wastewater disposed of within 300 feet of a stream or fresh surface water body?
(If 'No', then go to line 7.)

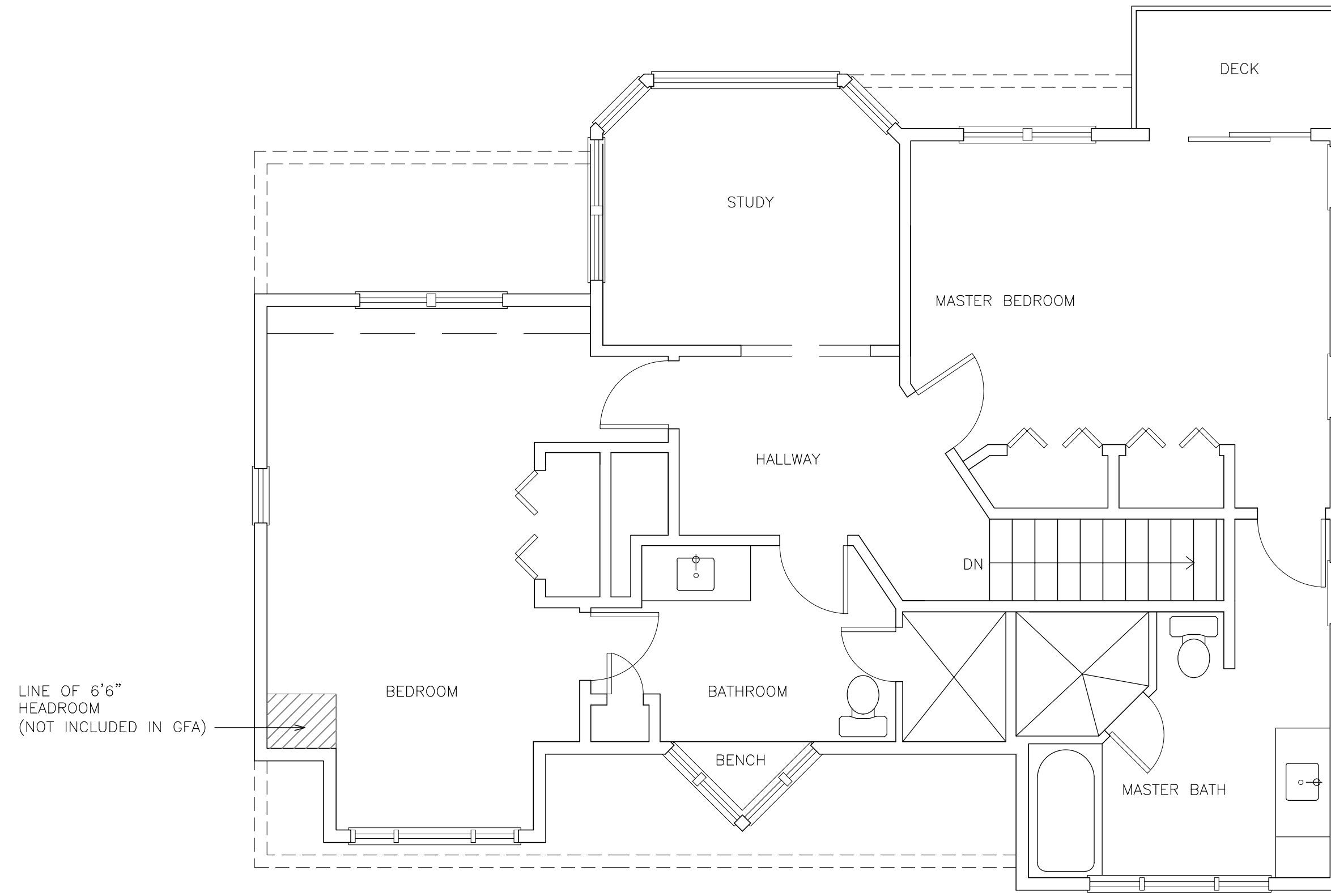
Is the project located in a freshwater recharge area (FWRA) hydraulically upgradient of a stream or fresh surface water body?
(If 'Yes', the project must provide an alternative strategy for meeting Objective WR2)

Other Potential Impacts

7. Yes No
Will the project withdraw more than 20,000 gallons of water per day ?
(If 'Yes', then the project must provide documentation demonstrating that there will not be significant impacts to water levels, surface waters and wetlands)

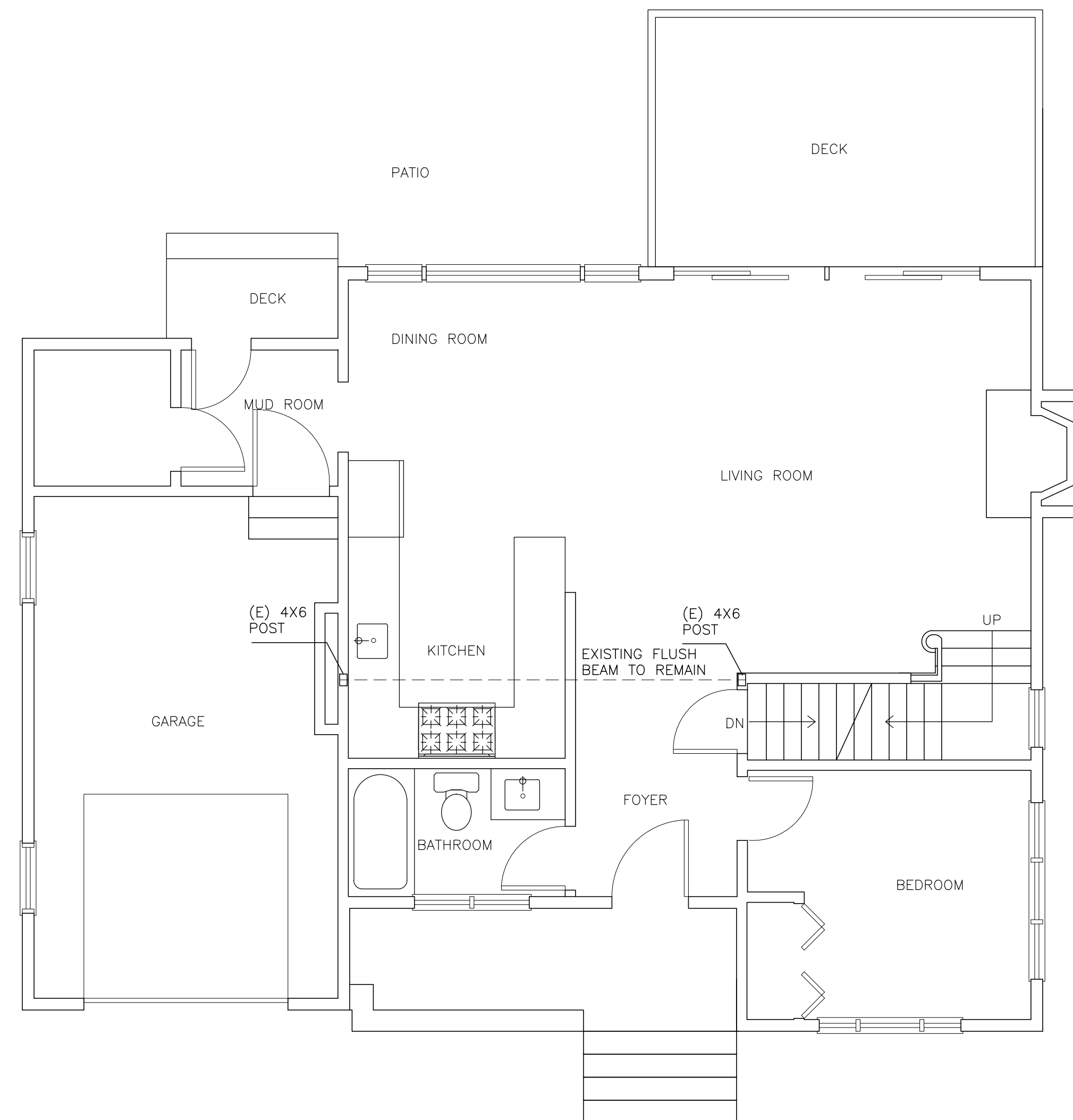
8. The project must demonstrate compliance with Objective WR4, including use of Low Impact Development to mitigate impacts of stormwater runoff and O & M plans for maintaining stormwater infrastructure and landscaping.

EXISTING FLOOR PLANS



EXISTING SECOND FLOOR PLAN

1/4"=1'-0"



EXISTING FIRST FLOOR PLAN

1/4"=1'-0"

Architect:
RESCOM
 Architectural, Inc.
 118 Waterhouse Road, Suite F., Bourne, MA 02532
 Ph: (508) 759-9828 Fax: (508) 759-9802

GARRITY RESIDENCE
 78 Sagamore Road, Sagamore Beach
 Bourne, MASSACHUSETTS

EXISTING
 FLOOR PLANS

CERTIFICATION:
 THESE DRAWINGS HAVE BEEN PREPARED TO MEET REQUIREMENTS
 OF THE MASSACHUSETTS BOARD OF ARCHITECTURE AND PROFESSIONAL ENGINEERS
 AND I AM A LICENSED ARCHITECT IN THE STATE OF MASSACHUSETTS.
 I HAVE REVIEWED THESE DRAWINGS AND I AM NOT PROVIDING ANY OTHER
 INFORMATION TO ANY OTHER PARTY.
 I HAVE REVIEWED THESE DRAWINGS AND I AM NOT PROVIDING ANY OTHER
 INFORMATION TO ANY OTHER PARTY.

REVISIONS

NO.	DATE	DESCRIPTION

JOB NUMBER:

DATE: 01-08-24

EX1

PROPOSED FLOOR PLANS

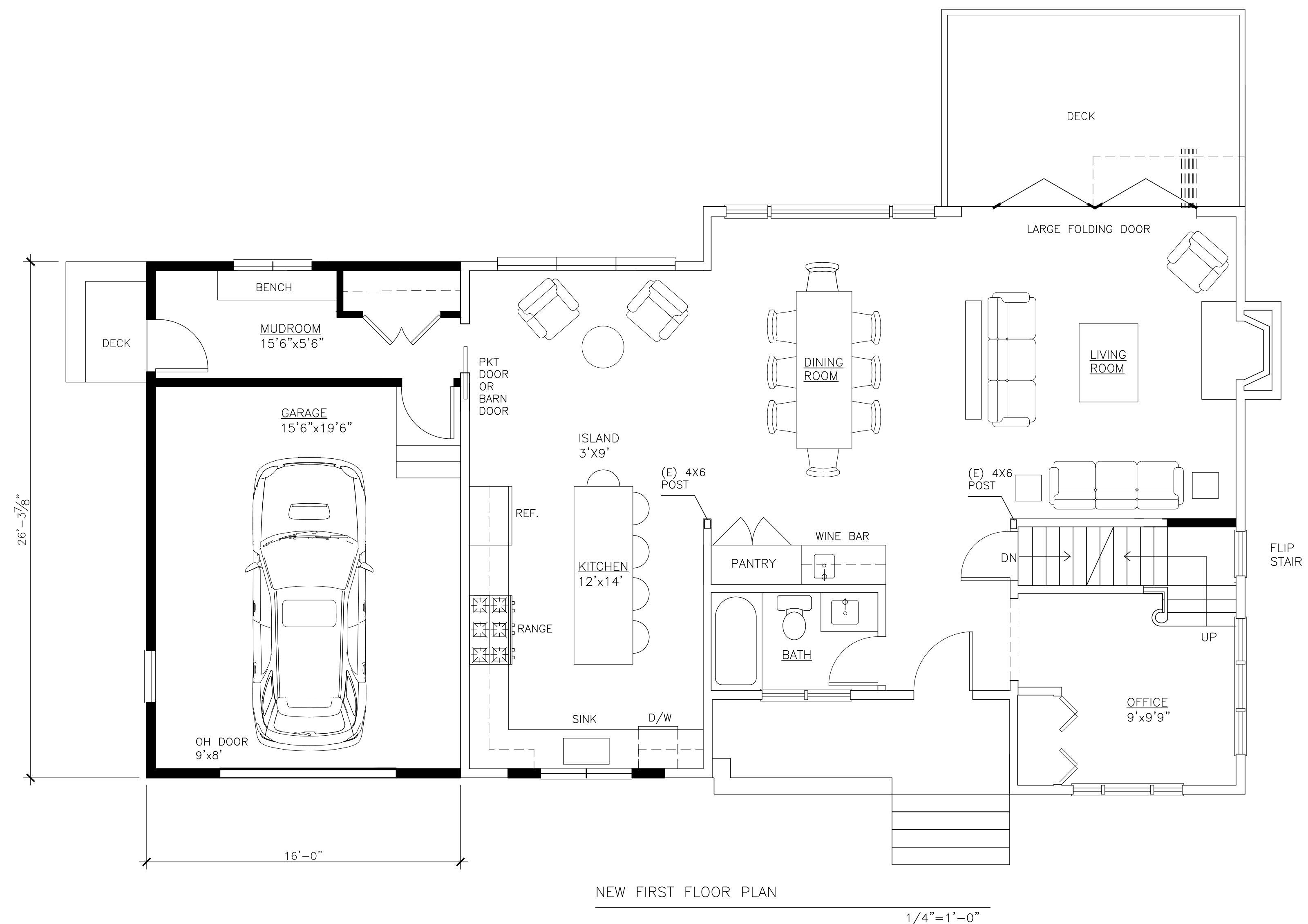
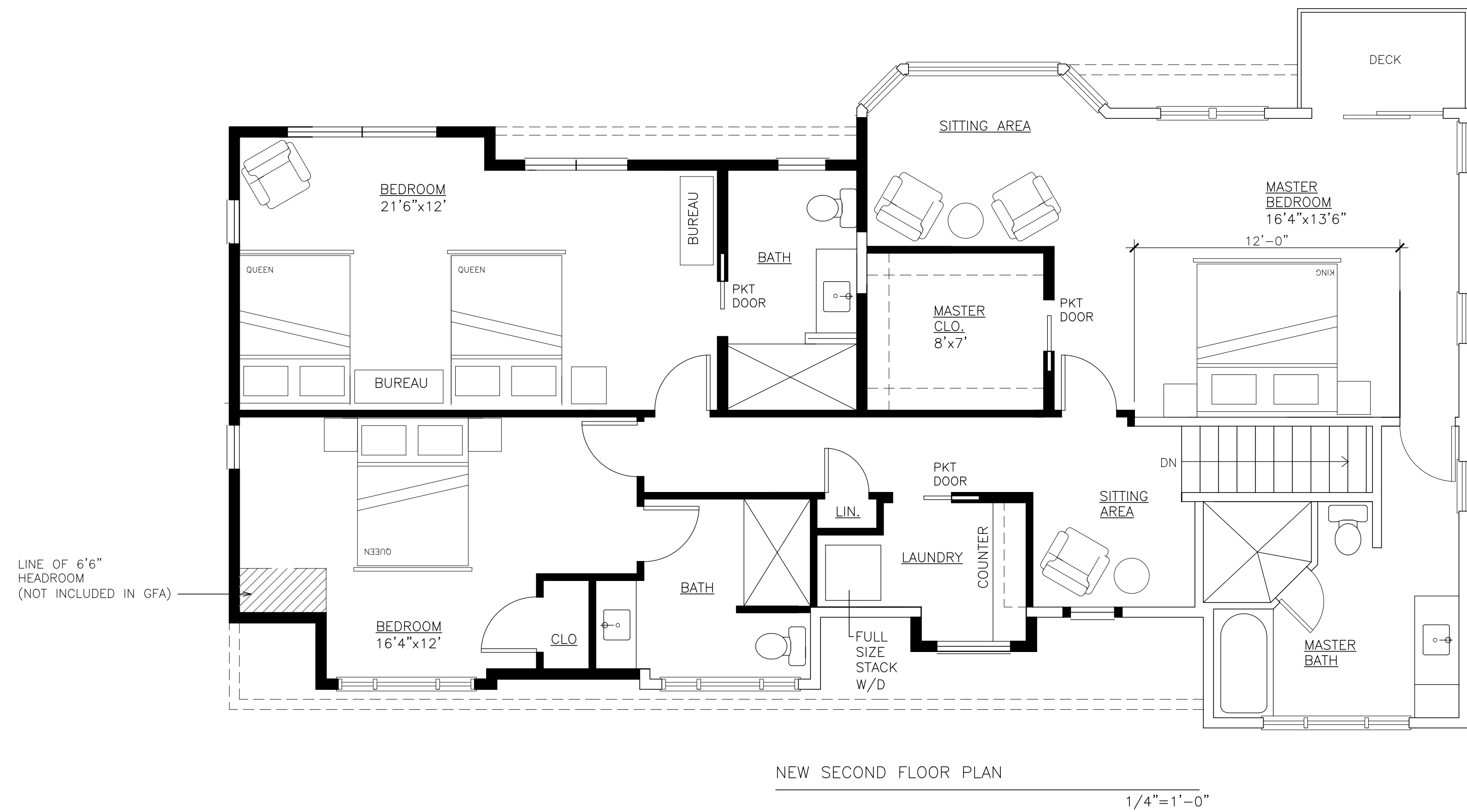
LOT COVERAGE	
LOT SIZE -	14,114 SF
EXISTING STRUCTURES	1,433 SF. (10.1%)
NEW STRUCTURES	421 SF.
TOTAL	1,854 SF. (13.1%)

GROSS FLOOR AREA	
EXISTING FIRST FLOOR	1,091 SF.
EXISTING SECOND FLOOR	951 SF.
TOTAL	2,042 SF. (14.4%)
NEW FIRST FLOOR	1,512 SF.
NEW SECOND FLOOR	1,387 SF.
TOTAL	2,899 SF. (20.5%)

TOWN OF BOURNE ZONING BYLAW-SECTION 2450				
LOT SIZE	14,114SF	MAX GROSS FLR AREA	LOT COVERAGE (FOOTPRINT)	
% USED TO DETERMINE GFA REQUIREMENTS	21%		DWELLING	1,512 SF.
MAX GFA ALLOWED	2,963 SF.	FIRST FLOOR	DECKS	342 SF.
		SECOND FLOOR		
% USED TO DETERMINE LOT COVERAGE REQ.	21%			
MAX LOT COVERAGE	2,963 SF.			
		TOTAL GFA	TOTAL LOT COVERAGE	1,854 SF. (13.1%)
		2,899 SF. (20.5%)		

MAXIMUM GROSS FLOOR AREA (GFA)
The sum of all horizontal floors areas for all residential structures on the same lot including garages, barns, sheds, covered porches. Measurements taken from exterior face of exterior walls.
*Does not include 1-story garages w/ a max. of 480 sf., porches less than 200 sf., decks, cellars/basements w/ walls more than 50% below grade & attics less than 6'6" floor to ceiling, providing no roof penetrations (dormers, skylights) and not accessed by fixed stairs.

MAXIMUM LOT COVERAGE
Includes all structures: dwellings, garages, porches, decks, sheds, gazebos, storage containers over 75 sf. swimming pools over 4,000 gallons.



Architect:
RESCOM
Architectural, Inc.
118 Waterhouse Road, Suite F., Bourne, MA 02532
Ph: (508) 759-9828 Fax: (508) 759-9802

GARRY RESIDENCE
78 Sagamore Road, Sagamore Beach
Bourne, MASSACHUSETTS

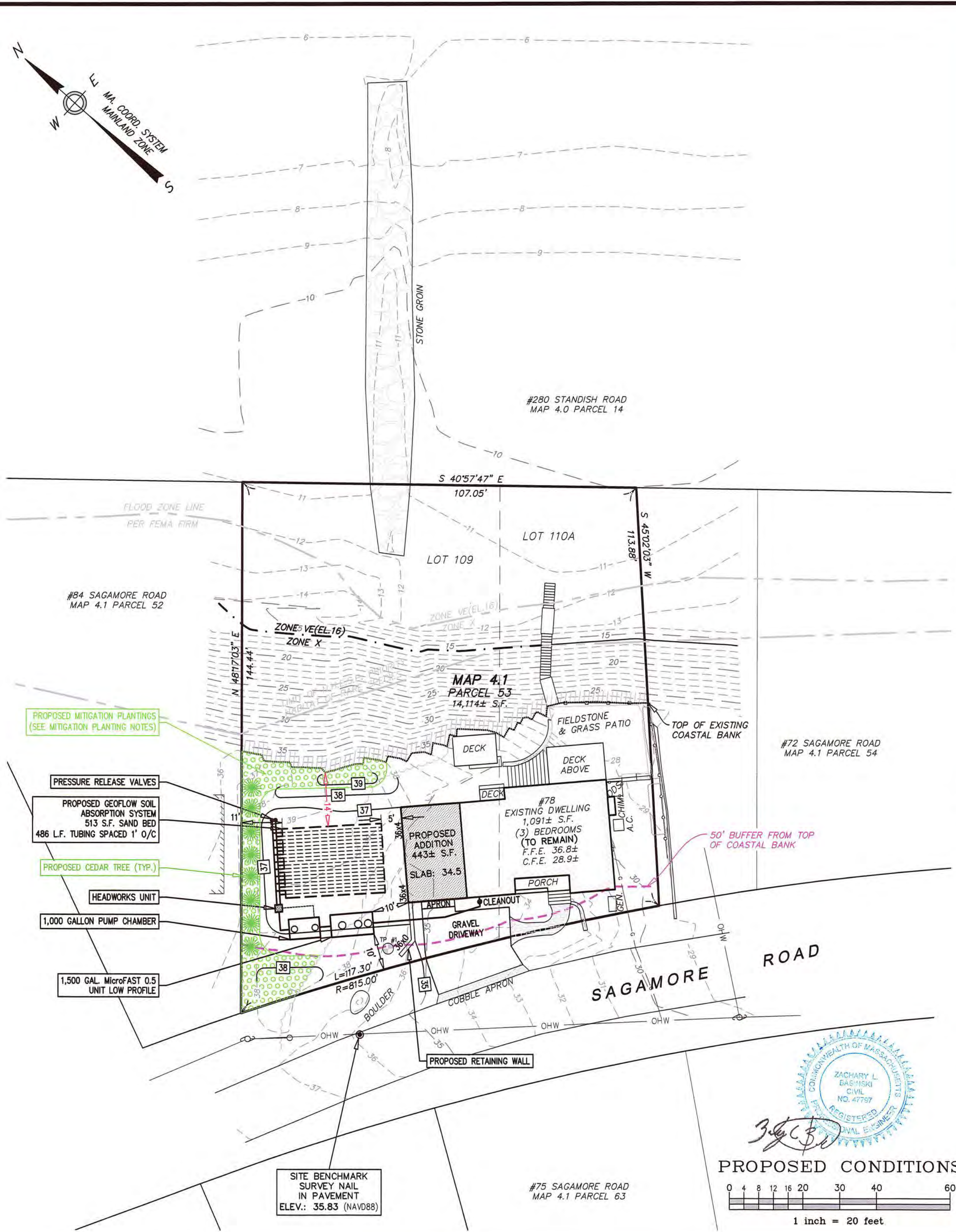
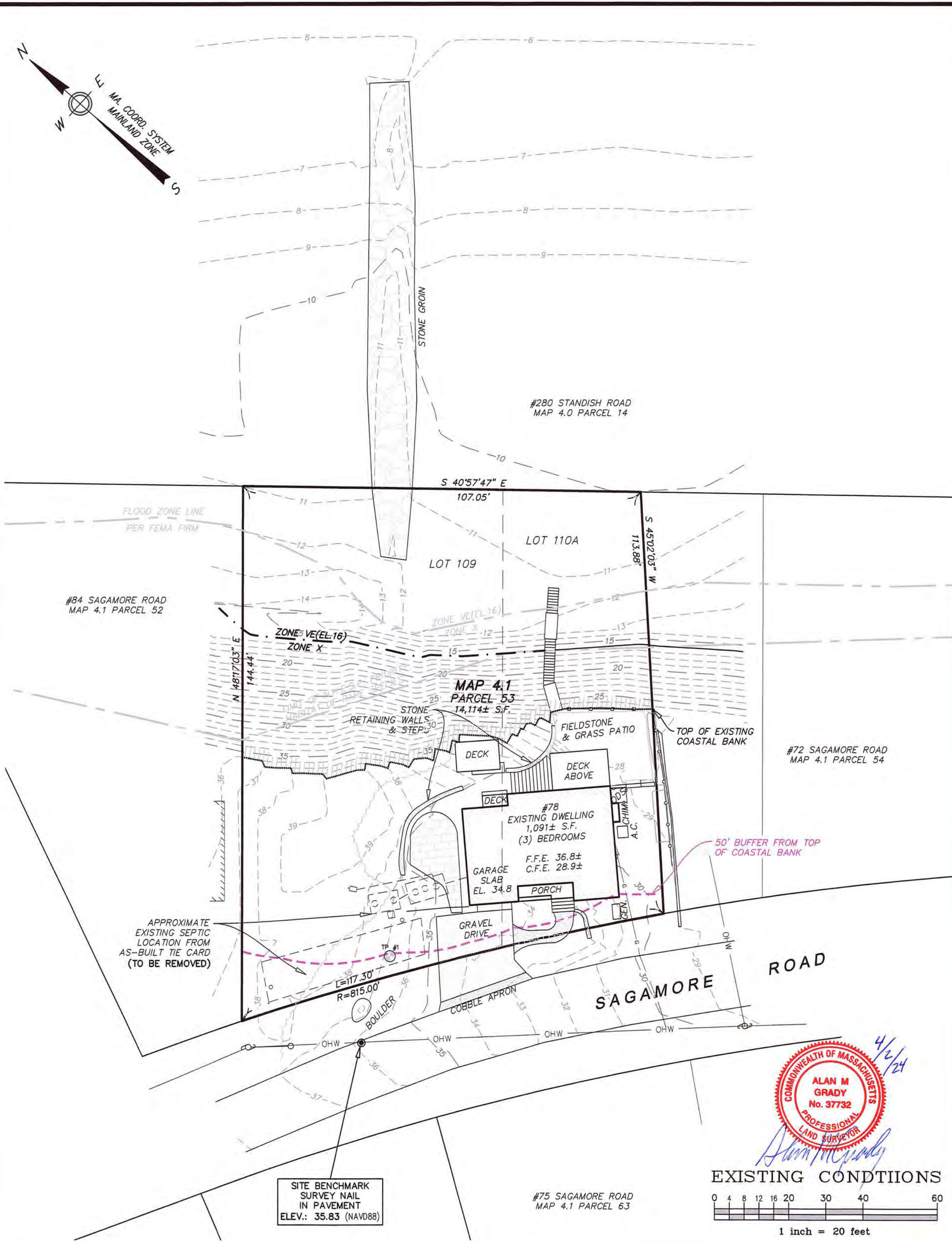
NEW FLOOR PLANS

CERTIFICATION:
THESE DRAWINGS HAVE BEEN PREPARED TO MEET REQUIREMENTS OF THE MASSACHUSETTS BOARD OF ARCHITECTURE AND THE BOARD OF REGISTERED PROFESSIONAL ENGINEERS. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS, AND WILL BE HELD RESPONSIBLE FOR ANY OTHER VIOLATIONS OF ANY OTHER APPLICABLE LAWS.

REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 01-08-24

A1



LOCAL UPGRADE APPROVAL WAIVERS & VARIANCE REQUESTS

IN ACCORDANCE WITH MA 310 15.00 (TITLE 5) AND LOCAL BOURNE BOARD OF HEALTH REGULATIONS, THE FOLLOWING VARIANCES ARE REQUESTED:

- 1) A VARIANCE TO LOCAL SETBACK REQUIREMENTS IS REQUESTED FOR A 136"± REDUCTION IN SETBACK FOR A 14"± SETBACK TO A COASTAL BANK FROM A SOIL ABSORPTION SYSTEM.
- 2) 15.405(1)(f) - A 36"± LOCAL UPGRADE APPROVAL WAIVER IS REQUESTED FOR A SETBACK OF 14"± TO A COASTAL BANK.
- 3) 15.405(1)(b) - A .5' LOCAL UPGRADE APPROVAL WAIVER IS REQUESTED FOR 3.5' OF COVER OVER A SEPTIC TANK.
- 4) 15.405(1)(b) - A 1.4' LOCAL UPGRADE APPROVAL WAIVER IS REQUESTED FOR 4.4' OF COVER OVER A PUMP CHAMBER.

SOIL LOGS

DEPTH	SOIL TYPE	ELEVATION
0"	A1 LOAMY SAND 10YR 3/2	36.8
2"	B1 SANDY LOAM 10YR 5/4	36.6
8"	C1 SANDY LOAM/SAND MIX 10YR 6/3	36.1
72"	A2 LOAMY SAND 10YR 3/2	30.8
82"	B2 SANDY LOAM 10YR 4/6	30.0
92"	C2 SANDY LOAM 10YR 6/6	29.1
162"	C3 SAND MED-COARSE 10YR 7/4	23.3
186"	WET @ 19'	21.3

DATE PERFORMED: FEBRUARY 12, 2008
 SOIL EVALUATOR: S. MOLES, WARWICK & ASSOC.
 WITNESSED BY: CINDY COFFIN, HEALTH AGENT
 PERC. RATE: < 2 MINUTES/INCH
 SOIL CLASS: CLASS I
 MAX. GROUND WATER ELEV.: WET @ 19'

SOIL LOGS TAKEN FROM RECORD BOARD OF HEALTH INFORMATION - "SITE & SEPTIC DESIGN PLAN" BY WARWICK & ASSOCIATES, INC. DATED 3/25/08.

DESIGN CALCULATIONS

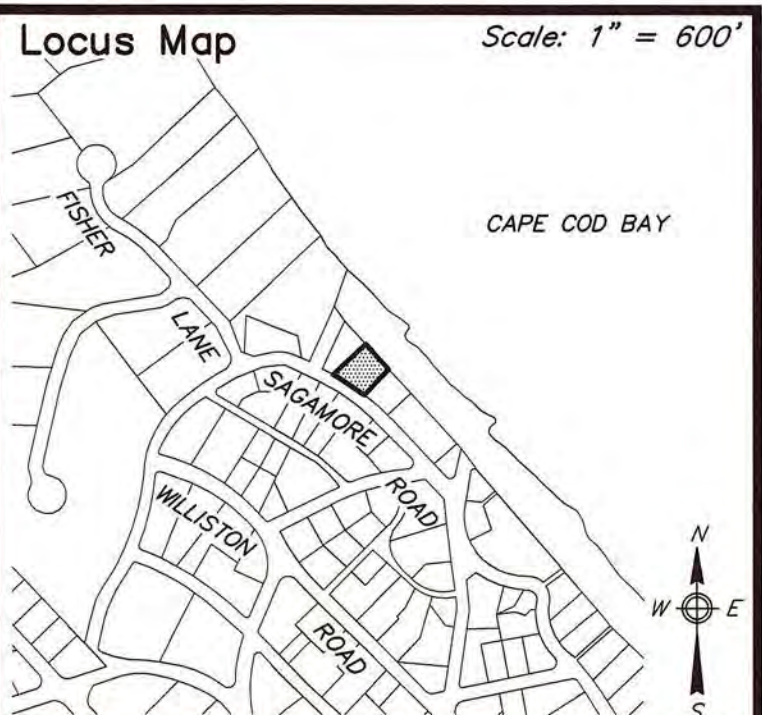
SOIL TEXTURAL CLASS: CLASS I
 DESIGN PERC. RATE: < 2 MINUTES/INCH
 NO. OF BEDROOMS: 3 BEDROOMS
 DESIGN FLOW REQUIRED: 330 GPD
 SEPTIC TANK REQUIRED: 1,500 GALLONS
 SEPTIC TANK PROVIDED: 1,500 GALL. W/ MICROFAST 0.5
 PUMP CHAMBER PROVIDED: 1,000 GALLON PRECAST TANK

LEACHING SYSTEM:
 GEO-FLOW IRRIGATION DISPOSAL FIELD
 SAND BED TO BE 513 S.F. WITH 486 LF OF GEO-FLOW DRIP TUBING

EFFECTIVE LEACHING: (BASED ON REMEDIAL USE APPROVAL)
 LOADING RATE = 0.74 GPD/S.F.
 (330 GPD) / (0.74 GPD/SF) = 445 S.F. REQUIRED BED (445 S.F. / (1 S.F./L.F. DRIP TUBING (1" SPACING))) = 445 LF REQUIRED

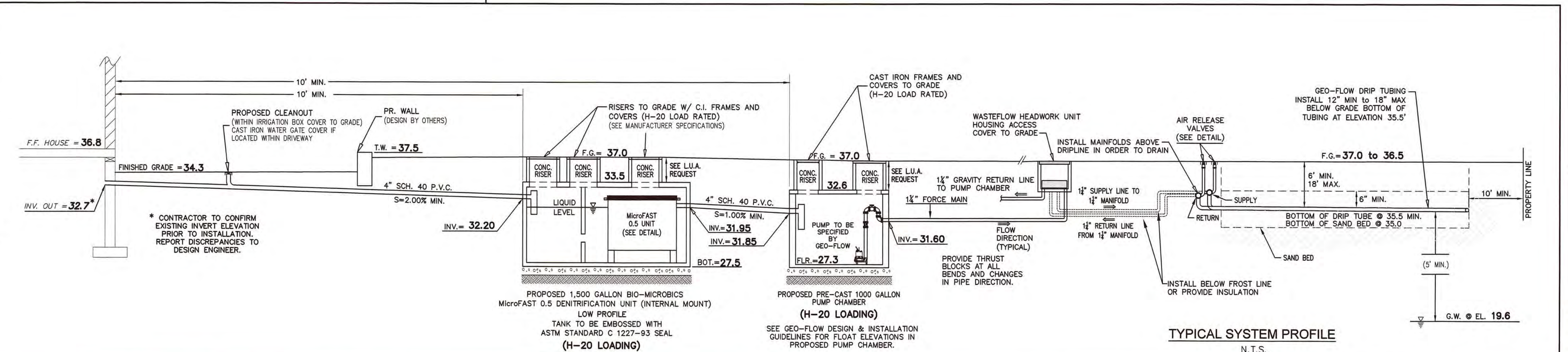
486 LF. DRIP TUBING > 445 DRIP TUBING REQUIRED

PUMP CHAMBER CALCULATIONS
 DOSING AND DRAIN BACK REQUIREMENTS PER GEO-FLOW SPECIFICATIONS
 CONTRACTOR TO COORDINATE WITH MANUFACTURER'S REPRESENTATIVE.



- Notes**
1. BENCHMARK: ELEVATION = 35.83 (NAVD88) SURVEY NAIL IN PAVEMENT
 2. ALL CONSTRUCTION METHODS AND MATERIALS TO CONFORM TO TITLE 5 AND THE TOWN OF BOURNE BOARD OF HEALTH REGULATIONS.
 3. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
 4. NO FIELD MODIFICATION TO THE SYSTEM SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER AND BOARD OF HEALTH.
 5. ALL JOINTS AND COVERS TO BE WATERTIGHT.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES.
 7. A CERTIFICATE OF COMPLIANCE MUST BE OBTAINED PRIOR TO BACKFILLING SYSTEM.
 8. OWNER/APPLICANT:
 WILLIAM J. GARRITY
 SARAH A. GARRITY
 1473 GREAT PLAIN AVENUE
 NEEDHAM, MA 02492
 9. DEED REFERENCE: Deed Bk: 27912 Pg: 133
 Deed Bk: 22976 Pg: 114
 (3 BEDROOM RESTRICTION)
 10. PLAN REFERENCE: Plan Bk: 15 Pg: 87 (LOT 109)
 Plan Bk: 108 Pg: 17 (LOT 110A)
 11. THE DESIGN IS INTENDED TO MEET TITLE 5 AND OTHER APPLICABLE REQUIREMENTS. THIS PLAN DOES NOT GUARANTEE THAT THE SYSTEM WILL BE INSTALLED AS DESIGNED, NOR DOES THIS PLAN GUARANTEE THE OPERATION OF THE SYSTEM.
 12. THIS SYSTEM IS NOT DESIGNED NOR INTENDED FOR USE WITH A GARBAGE GRINDER.
 13. THE SYSTEM OWNER SHALL BE RESPONSIBLE TO PUMP THE SEPTIC TANK AT LEAST ONCE EVERY THREE YEARS.
 14. LOCUS DOES NOT FALL WITHIN A ZONE II WELLHEAD PROTECTION AREA.
 15. A PORTION OF THE LOCUS DOES FALL WITHIN AN NHPES ESTIMATED HABITAT OF RARE WILDLIFE OR PRIORITY HABITAT OF RARE SPECIES.
 16. A PORTION OF THE LOCUS DOES FALL WITHIN SPECIAL FLOOD HAZARD ZONE 'VE' (EL. 16) AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP 25001C-0317-J effective 07/16/2014.
 17. HOMEOWNER IS TO ESTABLISH AN OPERATIONS & MAINTENANCE PLAN WITH A COMPANY CERTIFIED SYSTEM OPERATOR FOR THE GEO-FLOW DRIP DISPERSAL SYSTEM. ALL SYSTEM TESTING IS TO BE CONDUCTED IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) GENERAL USE PERMITS.
 18. THE RECORD PROPERTY OWNER IS TO FILE A NOTICE WITH THE BARNSTABLE COUNTY REGISTRY OF DEEDS DISCLOSING BOTH THE EXISTENCE OF THE ALTERNATIVE SEPTIC SYSTEM ON THE PROPERTY AND THE DEP APPROVAL.
 19. SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION MAY DIFFER FROM THE PREVIOUSLY OBSERVED CONDITIONS AT THE TEST FITS. ADDITIONAL REMOVAL AND REPLACEMENT OF SOIL MAY BE REQUIRED. IF UNDESIRABLE CONDITIONS ARE ENCOUNTERED, THE DESIGN ENGINEER SHALL BE CONSULTED.

1. REFER TO THE REQUIRED OPERATION & MAINTENANCE PLAN, TO BE SUPPLIED BY THE MANUFACTURE, FOR REQUIRED MAINTENANCE PROCEDURES.
 2. INSULATION TO BE PLACED AROUND HYDRAULIC UNIT AND PIPING, AS REQUIRED.
 3. ALL TANKS, INCLUDING SEPTIC TANKS, WASTEFLOW HEADWORK UNIT, AND PUMP CHAMBERS SHALL BE EITHER:
 (A) WATERTIGHT THROUGH MANUFACTURE'S SPECIFICATION AND WARRANTY; OR
 (B) MADE WATERTIGHT BY THE MANUFACTURER, EQUIPMENT SUPPLIER OR INSTALLER USING ASPHALT OR SYNTHETIC POLYMER SEALER SPECIFIED BY THE CONCRETE OR SYNTHETIC MATERIAL MANUFACTURE, AS SPECIFIED IN 310 CMR 15.221(1).
 4. TANKS TO BE TESTED FOR WATER TIGHTNESS.
 5. THE CONTRACTOR SHALL BE CERTIFIED BY GEOFLOW.
 6. MARK SYSTEM COMPONENTS WITH MAGNETIC TAPE.
 7. ALL WORK WITHIN 10' OF BUILDING TO BE PERFORMED BY LICENSED PLUMBER.
 8. SOIL CONDITIONS ENCOUNTERED DURING INSTALLATION MAY DICTATE THE USE OF A SAND BED UNDER THE PROPOSED DRIP TUBING. IF UNFAVORABLE CONDITIONS ARE FOUND CONTACT THE DESIGN ENGINEER.
- NOTES**
- (1) ALL SYSTEM COMPONENTS TO BE MARKED WITH MAGNETIC MARKING TAPE.
 - (2) ALL SYSTEM COMPONENTS TO BE WITHIN 36" OF FINISHED GRADE UNLESS OTHERWISE NOTED.
 - (3) ALL PLUMBING WITHIN 10 FEET OF THE FOUNDATION TO BE INSTALLED BY A LICENSED PLUMBER.



Prepared By:

BRACKEN ENGINEERING, INC.

49 HERRING POND ROAD
 BUZZARDS BAY, MA 02532
 (tel) 508.833.0070
 (fax) 508.833.2282

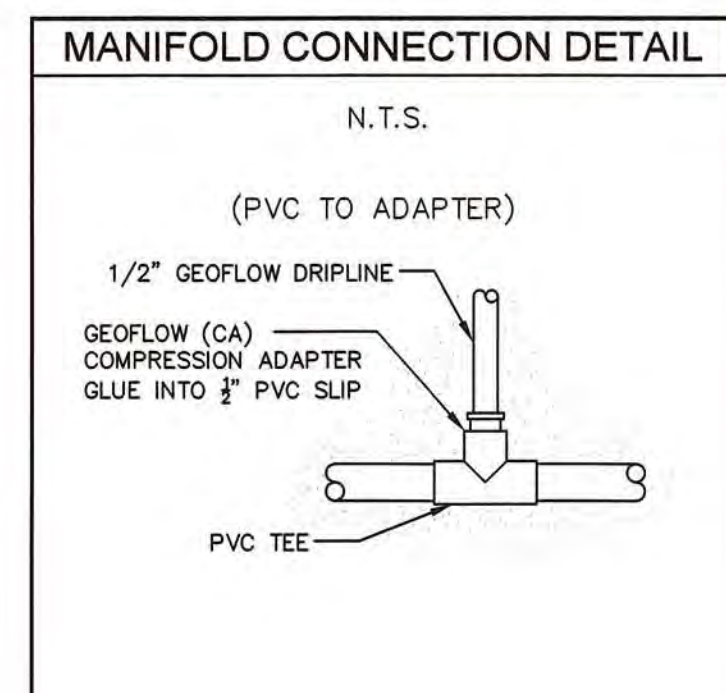
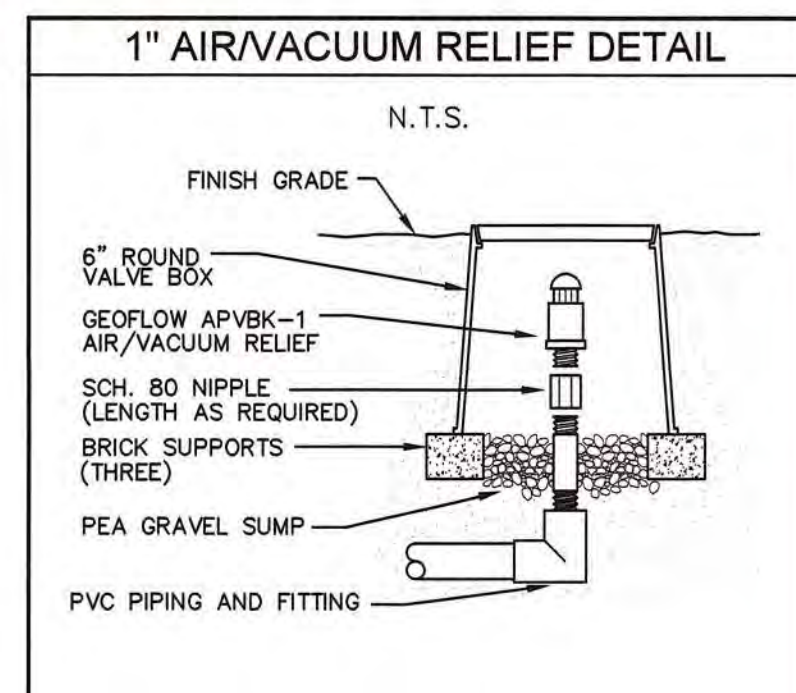
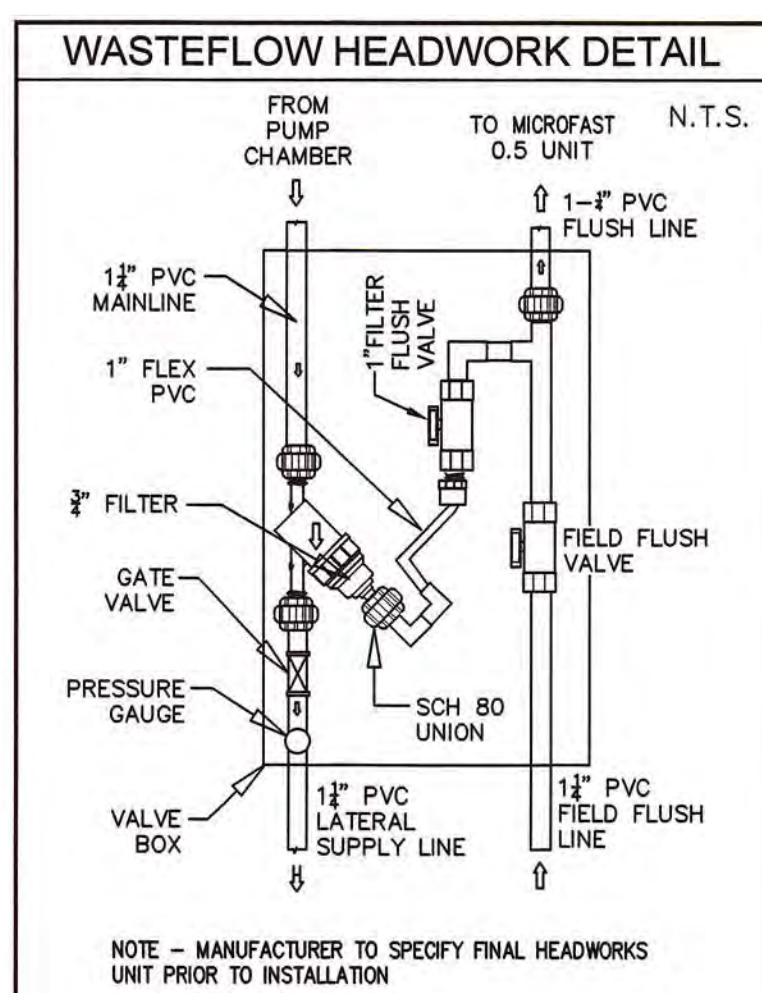
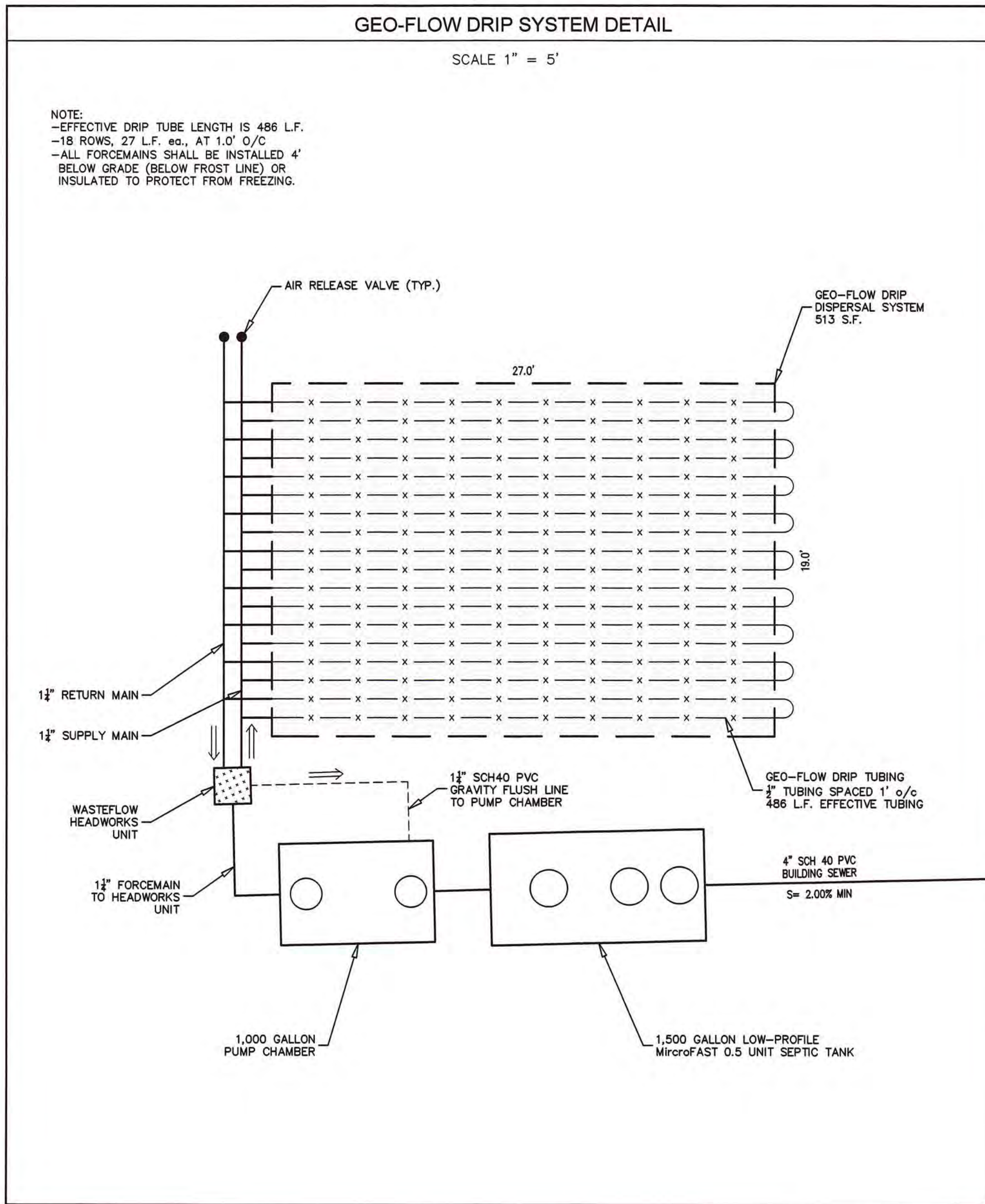
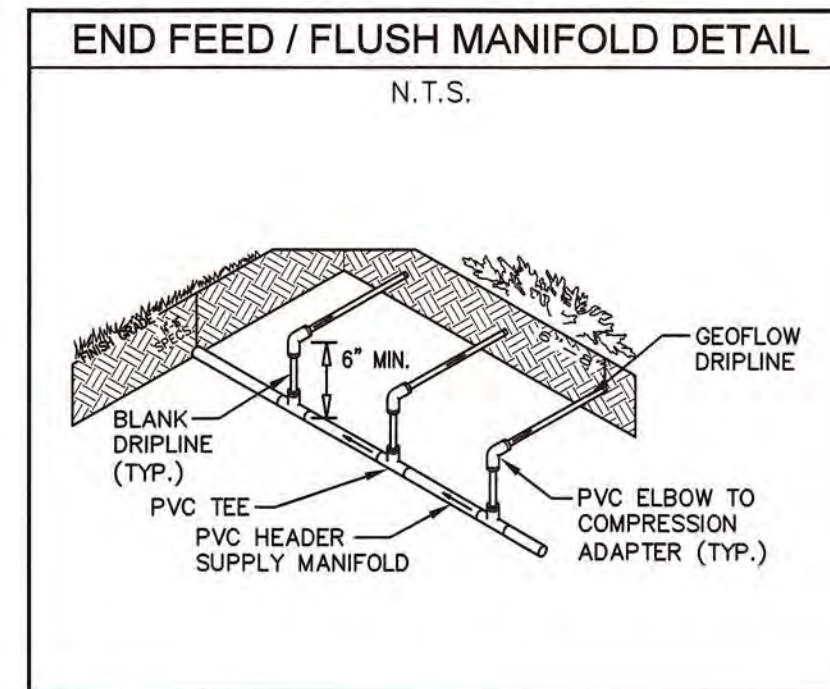
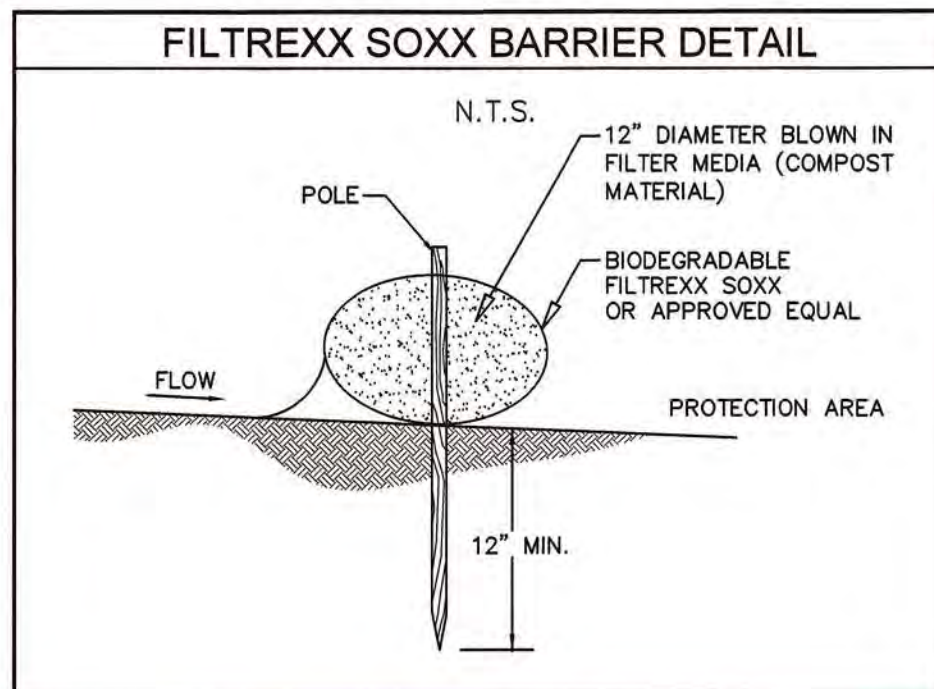
19 OLD SOUTH ROAD
 NANTUCKET, MA 02554
 (tel) 508.326.0044
 www.brackeneng.com

PROPOSED SITE PLAN IN BOURNE, MASSACHUSETTS

Prepared For:
WILLIAM J. GARRITY & SARAH A. GARRITY
 #78 SAGAMORE ROAD
 MAP 4.1 PARCEL 53

No.	Date	Revision Description	By
-	-	-	-

Date: APRIL 2, 2024
 Drawn: JPH/BEI
 Checked: ZLB/AMG
 Sheet: 1 of 2



- ### GENERAL CONSTRUCTION NOTES "GEOFLOW" DRIP DISPERSAL SYSTEMS
1. THE SYSTEM SHALL NOT BE INSTALLED IN WET OR FROZEN SOILS.
 2. DO NOT PARK, DRIVE LARGE EQUIPMENT, OR STORE MATERIALS ON THE DISPERSAL AREA. NO ACTIVITY SHOULD OCCUR ON DISPERSAL AREA OTHER THAN THE MINIMUM REQUIRED TO INSTALL THE SYSTEM.
 3. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO STATE AND LOCAL CODES PERTAINING TO ON-SITE SEWAGE SYSTEMS AND THE PERMIT FOR THE SITE.
 4. THE INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
 5. THE CONTRACTOR SHALL BE CERTIFIED TO INSTALL THIS TYPE OF SYSTEM AND SHOULD HOLD A PRE-CONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR THE SITE DESIGN AND INSPECTIONS. THE MEETING SHOULD BE HELD PRIOR TO THE BEGINNING OF THE SITE WORK TO ENSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THAT THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
 6. IF SITE CONDITIONS ARE DETERMINED TO REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THE DESIGN PLANS, ALL WORK SHALL STOP IMMEDIATELY AND THE DESIGNER AND HEALTH AGENT SHALL BE NOTIFIED. ANY ON GOING WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 7. DRIP TUBING MAY BE INSTALLED WITH A VIBRATORY PLOW, A STATIC PLOW, A NARROW TRENCHER (<6\"/>

- ### MITIGATION PLANTING NOTES
1. ALL PLANTINGS ACTIVITIES AND DESIGN SHALL BE COORDINATED WITH TOWN OF BOURNE CONSERVATION STAFF.
 2. THIS SITE PLAN PROPOSES MITIGATION IN THE FORM OF NATIVE PLANT RESTORATION IN A TOTAL OF APPROXIMATELY 2,960 S.F.
 3. TEMPORARY IRRIGATION WILL BE REQUIRED FOR THE FIRST TWO TO THREE (2-3) GROWING SEASONS WHILE PLANTS ESTABLISH. ONCE PLANTS ARE ESTABLISHED IRRIGATION WILL BE REMOVED.
 4. FINAL PLANTING QUANTITY, SPECIES AND LAYOUT SHALL BE COORDINATED WITH CONSERVATION STAFF BASED ON SPECIES AVAILABILITY AT THE TIME OF INSTALLATION. PLANTINGS SHALL BE 3' O/C UNLESS OTHERWISE NOTED ON THE PLAN.
 5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POSER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE AND COMPLETION OF WORK.
 6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE OR ADJACENT THERETO INCLUDING TREES, SHRUBS, LAWN, PAVEMENTS, ROADWAYS, STRUCTURES, AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION OR REPLACEMENT.
 7. EXISTING EROSION CONTROL MEASURES ON SITE TO BE MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SITE IS STABILIZED.
 8. ALL DISTURBED AREAS WITHIN AND AROUND THE PROPOSED MITIGATION PLANTINGS SHALL BE SEEDED WITH GRASS AND WILDFLOWER SEED MIX (SEE BELOW).
 THE MITIGATION SEED MIXTURE SHALL CONTAIN THE FOLLOWING:
 •AUTUMN BENTGRASS (ARGROSTIS PERENNANS)
 •BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA)
 •PURPLE CONEFLOWER (ECHINACEA PURPUREA)
 •SHEEP FESCUE (FESTUCA OVINA)
 •RED RESCUE (FESTUCA RUBRA)
 •PATH RUSH (JUNCUS TENUIS)
 •BLACK-EYED SUSAN (RUDIBECKIA HIRTA)
 •LITTLE BLUESTEM GRASS (SCHIZACHYRIUM SCOPARIUM)
 GRASS & WILDFLOWER SEED MIX SHALL BE SPREAD ACROSS ANY DISTURBED AREAS AND AROUND ALL OF THE PROPOSED PLANTINGS WITHIN THE PROPOSED GRADING AREAS.
 9. MITIGATION PLANTINGS SHALL BE COMPRISED OF THE FOLLOWING NATIVE SPECIES UNLESS OTHERWISE NOTED ON THE PLAN.
 SHRUBS:
 NORTHERN BAYBERRY
 COMPACT INKBERRY
 Highbush INKBERRY
 SWEET PEPPERBUSH
 SHADBUSH
 WINTERBERRY
 ARROWWOOD
 TREES:
 EASTERN RED CEDAR
 BLACK CHERRY
 AMERICAN HOLLY
 ATLANTIC WHITE CEDAR
 BLACK TUPELO
 DOWNY
 SERVICEBERRY/SHADBUSH
 GRAY BIRCH
 GREEN ASH
 10. FINAL LAYOUT, SPECIES TYPE AND QUANTITY SHALL BE ACCORDING TO PLANTING PLAN BY OTHERS.

Prepared By:
BRACKEN ENGINEERING, INC.
 49 HERRING POND ROAD BUZZARDS BAY, MA 02532
 19 OLD SOUTH ROAD NANTUCKET, MA 02554
 (tel) 508.833.0070 (fax) 508.833.2282
 (tel) 508.325.0044 (www.brackeneng.com)

PROPOSED SITE PLAN IN BOURNE, MASSACHUSETTS
 Prepared For:
WILLIAM J. GARRITY & SARAH A. GARRITY
 #78 SAGAMORE ROAD
 MAP 4.1 PARCEL 53

No.	Date	Revision Description	By
-	-	-	-

Date: APRIL 2, 2024
 Drawn: JPH/BEI
 Checked: ZLB/AMG
 Sheet: 2 of 2

NOTICE OF ALTERNATIVE SEWAGE DISPOSAL SYSTEM
M.G.L. c. 21A, § 13 and 310 CMR 15.287(10)

ADDRESS OF PROPERTY SERVED BY ALTERNATIVE SYSTEM:

78 Sagamore Road, Bourne, MA

TITLE REFERENCE FOR PROPERTY SERVED BY ALTERNATIVE SYSTEM

Deed recorded with the **Barnstable** Registry of Deeds in **Book 27912, Page 133**

NAME(S) OF OWNER OF PROPERTY SERVED BY ALTERNATIVE SYSTEM:

William J. Garrity & Sarah A. Garrity

OWNER(S) MAILING ADDRESS: 1473 Great Plan Avenue, Needham, MA 02492

WHEREAS, Section 15.280 of Title 5 of the State Environmental Code (“Approval of Alternative Systems”), provides for the Massachusetts Department of Environmental Protection (the “Department”) to approve or certify, as appropriate, all proposals to construct, upgrade or replace on-site sewage disposal systems using alternative systems;

WHEREAS, owners and/or operators of approved or certified alternative systems are subject to general conditions, as specified in Section 15.287 of Title 5 of the State Environmental Code, 310 CMR 15.287, and may be subject to special conditions, as specified in the Department’s approvals or certifications; such general and special conditions potentially including, without limitation, requirements relating to the use of trained operators, periodic inspections, maintenance, sampling, reporting and/or recordkeeping;

WHEREAS, the owners and/or operators this alternative system acknowledges and agrees to comply with the provisions of all of the Bourne Board of Health Alternative Septic System Regulations and any other conditions for the existence of the system;

WHEREAS, Section 15.287(10) of Title 5 of the State Environmental Code, 310 CMR 15.287(10), requires that “prior to obtaining a Certificate of Compliance for installation of a new or upgraded system, the system owner shall record in the chain of title for the property served by the alternative system in the Registry of Deeds and/or Land Registration Office, as applicable, a Notice disclosing both the existence of the alternative on-site system and the Department’s approval of the system. The system owner shall also provide evidence of such recording to the Bourne Board of Health; and

WHEREAS, the Property is served by an alternative sewage disposal system.

NOW, THEREFORE, Notice of an alternative sewage disposal system is hereby given for the above-referenced Property, as follows:

1. Existence #1. An alternative system has been installed as new or upgraded alternative sewage disposal system, on or adjacent to the Property, and serves the Property. The trade name and model number(s) of the alternative system are as follows:

Trade name of technology:	<i>MicroFAST®</i>
Manufacturer Name:	Bio-Microbics, Inc.
Model number(s):	MicroFAST 0.5 Unit

2. Approval/Certification. On June 16, 2006, modified January 23, 2008, revised November 5, 2012, the Department, pursuant to its authority under the section of Title 5 as specified below, approved or certified the technology used in the above referenced alternative system, under MassDEP Transmittal Number W 072367.

- Approved for remedial use under 310 CMR 15.284

3. Existence System #2. An alternative system has been installed as a new or upgraded alternative sewage disposal system, on or adjacent to the Property, and serves the Property. The trade name and model number(s) of the alternative system are as follows:

Trade name of technology:	Geoflow Subsurface Drip Wastewater Disposal System
Manufacturer Name:	GeoFlow, Inc.
Model number(s):	WF16-4-24

Approval/Certification. On June 22, 2011, revised March 20, 2015, modified November 8, 2018, the Department, pursuant to its authority under the section of Title 5 as specified below, approved or certified the technology used in the above referenced alternative system, under MassDEP Transmittal Number W032585.

- Approved for remedial use under 310 CMR 15.284

A copy of the Department of Environmental Protection’s Approval/Certification is available online at the Department’s website:

<https://www.mass.gov/guides/approved-title-5-innovativealternative-technologies>

This Notice of Alternative Sewage Disposal System must be submitted to the BOURNE Board of Health

WITNESS the execution hereof under seal this ____ day of _____, 20____, made by the above-named Alternative System Owner(s).

William J. Garrity

Sarah A. Garrity

COMMONWEALTH OF MASSACHUSETTS

_____, ss

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared William J. Garrity and Sarah A. Garrity who proved to me through satisfactory evidence of identification, which was _____, to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that he & she signed it voluntarily for its stated purpose.

(official signature and seal of notary)

Approved and Accepted By:

Agent for the Board of Health
Health Department
Town of Bourne



Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

REVISION OF APPROVAL FOR REMEDIAL USE

Pursuant to Title 5, 310 CMR 15.00

Name and Address of Applicant:

Bio-Microbics, Inc.
8450 Cole Parkway
Shawnee, KS 66227

Trade name of technology and models: MicroFAST® Treatment System Models *MicroFAST® 0.5, 0.75, 0.9, 1.5, 3.0, 4.5 and 9.0*; HighStrengthFAST® Treatment System Models *HighStrength FAST® 1.0, 1.5, 3.0, 4.5 and 9.0* and NitriFAST® Treatment System Models *NitriFAST® 0.5, 0.75, 1.0, 1.5, 3.0, 4.5 and 9.0* (hereinafter called the "System"). Schematic Drawings illustrating each System, a design and installation manual, an owner's manual, an operation and maintenance manual, and an inspection checklist are part of this Approval.

Transmittal Number: W 072367
Date of Issuance: June 16, 2006 (modified January 23, 2008)
Revision date: November 05, 2012

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental, Protection hereby issues this Approval for Remedial Use to: Bio-Microbics, Inc., 8450 Cole Parkway, Shawnee, KS 66227, (hereinafter "the Company"), approving the System described herein for Remedial Use in the Commonwealth of Massachusetts. The sale, design, installation, and use of the System are conditioned on compliance by the Company, the Designer, the Installer, the Service Contractor, and the System Owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Approval constitutes a violation of 310 CMR 15.000.

David Ferris, Director
Wastewater Management Program,
Bureau of Resource Protection

November 05, 2012

Date

Technology Description

The System is a Secondary Treatment Unit (STU). The Systems, MicroFAST® 0.5, 0.75, 0.9, 1.5, 3.0, 4.5 and 9.0, and HighStrengthFAST® 1.0, 1.5, 3.0, 4.5 and 9.0, and, NitriFAST® 0.5, 0.75, 0.9, 1.5, 3.0, 4.5 and 9.0 units are installed in a tank or tanks having a primary settling zone and an aerobic biological zone. Solids settle in the primary settling zone that is quiescent. In the aerobic zone, the sewage is continually agitated and aerated. Bacteria in the sewage attach to the surface of a submerged plastic media; they reproduce by consuming the organic material in the sewage.

Conditions of Approval

The term “System” refers to the STU in combination with the other components of an on-site treatment and disposal system that may be required to serve a facility in accordance with 310 CMR 15.000.

The term “Approval” refers to the technology-specific Special Conditions, the conditions applicable to all STU’s with Remedial Use Approval, the General Conditions of 310 CMR 15.287, and any Attachments.

For Secondary Treatment Units that have been issued Remedial Use Approval for the upgrade or replacement of an existing failed or nonconforming system., the Department authorizes reductions in the effective leaching area (310 CMR 15.242), the depth to groundwater (310 CMR 15.212), and/or the depth of naturally occurring pervious material (310 CMR 15.240(1)) subject to the conditions that apply to all Secondary Treatment Units Approved for Remedial Use and subject to the Special Conditions applicable to the Technology.

Special Conditions

1. The System is Secondary Treatment Unit Approved for Remedial Use. In addition to the Special Conditions contained in this Approval, the System shall comply with all the “Standard Conditions for Secondary Treatment Units Approved for Remedial Use”, except where stated otherwise in these Special Conditions.
2. The System is approved for facilities where the local approving authority finds that:
 - a) there is no increase in the actual or proposed design flow;
 - b) the System is for the upgrade of a failed, failing or nonconforming system; and
 - c) a conventional system with a reserve area, designed in accordance with the standards of 310 CMR 15.100 through 15.255, cannot feasibly be built on-site.

3. The MicroFAST® 0.5, 0.75 and 0.9, HighStrengthFAST® 1.0 and NitriFAST® 0.5, 0.75 and 0.9 are installed in the second compartment of a two-compartment tank with a total liquid capacity of at least 1,500 gallons constructed in accordance with 310 CMR 15.226.
4. The MicroFAST®, HighStrengthFAST® and NitriFAST® 1.5 are installed in the second compartment of a two compartment 3,000-gallon tank constructed in accordance with 310 CMR 15.226.
5. The MicroFAST®, HighStrengthFAST® and NitriFAST® 3.0, 4.5, and 9.0 units are installed in a separate tank constructed in accordance with 310 CMR 15.226. The units are located between a standard Title 5 septic tank, designed in accordance with 310 CMR 15.223 and 15.224, and the soil adsorption system (SAS).
6. Access shall be provided to all tanks in the primary settling and aerobic biological zones in accordance with 310 CMR 15.228 (2). The primary settling tank shall have at least three manholes with readily removable impermeable covers of durable material provided at grade. Two manholes, over the inlet and outlet of the primary settling tank, shall have a minimum opening of 20 inches. All access ports and manhole covers shall be installed and maintained at grade to allow for maintenance of the System.



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

APPROVAL FOR REMEDIAL USE

Pursuant to Title 5, 310 CMR 15.000

Name and Address of Applicant:

J & R Sales and Service
44 Commercial Street
Raynham, MA 02767

Trade name of technology and models:

Geoflow Subsurface Drip Wastewater Disposal System – Geoflow WASTEFLOW Classic WF16-4-24, WF16-4-12, WF – Special Order and Geoflow WASTEFLOW PC WFPC16-4-24, WFPC16-4-12, WFPC16-4-6, WFPC16-2-24, WFPC16-2-12, WFPC16-2-6 and WFPC-Special Order Subsurface Disposal System (hereinafter called the “System”). A schematic drawing of a typical System, Design Manual and inspection checklist are available from the manufacturer.

Transmittal Number:

W032585

Date of Issuance:

June 22, 2011, revised March 20, 2015

Modified November 8, 2018 (changed ownership)

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection hereby issues this Approval for Remedial Use to: J&R Sales and Service, 44 Commercial Street, Raynham, MA 02767 (hereinafter “the Company”), approving the System described herein for remedial use in the Commonwealth of Massachusetts. Sale and use of the System are conditioned on compliance by the Company and the System owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Approval constitutes a violation of 310 CMR 15.000.

/signed/

Marybeth Chubb, Section Chief
Bureau of Water Resources
Wastewater Management Program

November 8, 2018

Date

I. Purpose

1. The purpose of this Approval is to allow use of the System in Massachusetts to repair subsurface sewage disposal systems, on a Remedial Use basis.
2. With the necessary permits and approvals required by 310 CMR 15.000, this Approval for Remedial Use authorizes the use and installation of the System in Massachusetts.
3. The System may only be installed on facilities that meet the criteria of 310 CMR 15.284(2). The System is used to dispose of wastewater from an alternative system approved in accordance with 310 CMR 15.280 through 15.289 with effluent discharge concentrations that meet or exceed secondary treatment standards of 30 mg/L biochemical oxygen demand (BOD5) and 30 mg/L total suspended solids (TSS).
4. This Approval for Remedial Use authorizes the use of the System where the local approving authority finds that the System is for upgrade of a failed, failing or nonconforming system and the design flow for the facility is less than 10,000 gallons per day (GPD).

II. Design and Construction Standards Standards

1. The System, a subsurface drip distribution technology, is equivalent to a pressure distribution system designed in accordance with the Department's Pressure Distribution Guidance. In the event of conflict between the terms and conditions of this System's technology approval and Title 5, this approval shall control.
2. The System is a pressure distributed subsurface wastewater drip dispersal (disposal) system that replaces a soil absorption system (SAS) designed in accordance with 310 CMR 15.000. The System is designed to distribute effluent from an innovative treatment system and discharge it at a minimum depth of 6 inches below finished grade; it includes a pump, control panel, a filter module/hydraulic unit and drip dispersal zone(s). The dispersal zone includes small diameter flexible polyethylene tubing turbulent flow emitters regularly spaced inside the line. The System can be designed with either Classic turbulent flow emitters or with pressure compensating emitters typically located at one or two foot spacing within the tubing. The tubing is extruded with an inner lining of an anti-microbial agent to prevent bacterial growth. Dispersal field dosing is timed and controlled electronically to provide pre-programmed volumes of effluent for discharge to each dispersal zone. The System includes a return line that allows periodic flushing of the dispersal tubing. All drip zone supply and return pipes that are maintained filled with effluent after a pump cycle shall be buried below the frost line or properly insulated. All drip tubing and shallow manifolds shall be designed to drain into the soil or back to the pump chamber upon completion of the pump cycle. Each zone shall have air release valves at the high points of manifolds and check valves on each return manifold in multi-zone systems. The system shall be equipped with a totalizing flow meter.
3. The System may be installed in the A, B or C soil horizon or in fill material meeting the specifications at 310 CMR 15.255(3) at a minimum depth of 6 inches below the finished grade.
4. All access ports and manhole covers shall be installed and maintained at grade to allow for maintenance of the System.

5. The control panel including alarms and controls shall be mounted in a location always accessible to the System operator.
6. The System may be installed in soils with a percolation rate of up to 90 minutes per inch (MPI). The System shall not be installed in Class IV soils as defined in 310 CMR 15.243.
7. Effluent loading rates shall be as specified in 310 CMR 15.242(1)(a) and (b) with the exception of Class IV soils.
8. The System shall be designed and constructed with drip tubing with a spacing of 24 inches unless obstructions are encountered or in cases where more than the required tubing is provided and equally distributed within the approved appropriately sized subsurface disposal area in which case a minimum separation of 12 inches is allowed. As much as possible the System shall be designed to provide equal distribution across the designated disposal area.
9. The System does not require a five foot over dig as indicated at 310 CMR 15.255(5).
10. The System includes the following:
 - a. Pumps capable of providing pressure of 10-45 psi throughout the dispersal zone(s). Each drip dispersal zone shall be dosed a minimum of six times per day, or as recommended by the Company. Duplex pumping shall be provided for facilities with design flows of 2000 gpd or greater. The pump chamber, combined with available storage in the pretreatment units, shall provide at least one-day storage as required by 310 CMR 15.231.
 - b. Timed dosing for the drip system with a timer controller capable of operating the system during peak flow events without high-level alarms.
 - c. A self cleaning filter capable of screening particles larger than 100 microns prior to discharge of the effluent to the drip tubing. Filter(s) backwash shall be conveyed back to the pump tank, a separate settling tank or to the septic tank.
 - d. Air vents in a zone shall be placed at a higher elevation than the drip tubing in that zone but below the ground surface. Air vents shall be accessible from finished grade and insulated to prevent freezing.
 - e. Drip tubing lines installed as level as possible on contour and a minimum of 6 inches below finished grade. Drip line spacing is typically 24 inches with drip tubing emitters spaced 24 inches on center. More than the minimum length of tubing may be utilized within a properly sized soil absorption system. When the drip lines spacing is greater than 24 inches by 24 inches, the size of the dispersal field shall be increased to provide equal distribution with adequate tubing separation. All drip line flushwater shall be conveyed back to the pump tank, a separate settling tank or to septic tank.
 - f. The effective effluent dispersal area is calculated using the total area of the drip tubing system including a one-foot addition on each side or two square feet per foot of drip tube when tubing is spaced two feet apart. No sidewall credit shall be given for this System.
 - g. The dispersal area shall not be installed under a paved surface, or in areas of routine traffic, parking or storage of heavy equipment. In addition no planting or soil excavation shall be done in or within 5 feet of the drip disposal area after its installation. The system

may be designed to allow for installation of drip tubing up to five feet from a building cellar wall.

- h. No change in existing surface slope over the dispersal field is required to comply with 310 CMR 15.240(10).
11. All System control units, valve boxes, drip dispersal lines, conveyance lines and other System appurtenances shall be designed and installed to prevent freezing per the Company's recommendations.
12. The System designer shall provide plans and specifications prepared in accordance with 310 CMR 15.220 for all proposed System installations to the approving authority with required standard details and installation instructions.
13. Drip tubing may be installed with a vibratory plow, a static plow, a narrow trencher (<6" width), by hand trenching, or by scarifying the surface and bedding the drip tubing in clean sand meeting the requirements for fill material in Title 5 at 310 CMR 15.255(3) with cover consisting of sand and topsoil meeting the 6 inch minimum depth requirement. Vegetative cover must be replaced for installations where it is removed or buried during installation.
14. Drip tubing shall not be installed when soils are frozen or saturated.
15. Prior to System start up, a clean water test of the System shall be performed in the presence of the Company's representative and the approving authority to check for leaks and to ascertain and verify system design flush and dose rates.
16. System unit malfunction and high water alarms shall each be connected to an independent power source from the operating pump(s) run from the main power source of the facility.
17. For Systems with a design flow of 2,000 gpd or greater, the System shall be equipped to provide a flow meter and automatic remote telemetric notification to the operation and maintenance (O&M) provider.
18. Installation of inspection ports is not required for this System.

III. Allowable Soil Absorption System Design

1. Any reduction in System design sizing or setbacks shall be based on the MassDEP approved reduction allowed for the alternative treatment system that precedes the System or by variance or local upgrade approval in accordance with Title 5.

IV. General Conditions

1. All provisions of 310 CMR 15.000 are applicable to the use of this System, the System owner and the Company, except those that specifically have been varied by the terms of this Approval.
2. Any required operation and maintenance, monitoring and testing shall be performed in accordance with a Department approved plan.

3. The facility served by the System and the System itself shall be open to inspection and sampling by the Department and the local approving authority at all reasonable times.
4. In accordance with applicable law, the Department and the local approving authority may require the System owner to cease operation of the system and/or to take any other action as it deems necessary to protect public health, safety, welfare and the environment.
5. The Department has not determined that the performance of the System will provide a level of protection to public health and safety and the environment that is at least equivalent to that of a sewer system. No System shall be installed, upgraded or expanded, if it is feasible to connect the facility to a sanitary sewer, unless as allowed by 310 CMR 15.004. When a sanitary sewer connection becomes feasible, the facility served by the System shall be connected to the sewer, within 60 days of such feasibility, and the System shall be abandoned in compliance with 310 CMR 15.354, unless a later time is allowed, in writing, by the approving authority.
6. Design, installation and operation shall be in strict conformance with the Company's DEP approved plans and specifications, 310 CMR 15.000 and this Approval.

V. Conditions Applicable to the System Owner

1. The System is approved for the treatment and disposal of sanitary sewage only. Any wastes that are non-sanitary sewage generated or used at the facility served by the System shall not be introduced into the System and shall be lawfully disposed.
2. Effluent discharge concentrations from the treatment unit that discharges to the System shall meet or exceed secondary treatment standards of 30 mg/l BOD5 and 30 mg/l TSS. The effluent pH shall not be less than 6.0 or more than 9.0 unless approved by the Department.
3. Any effluent discharge samples shall be taken at a flowing discharge point, i.e. distribution box, pump chamber or other Department approved location downstream of the treatment unit. The System designer, subject to written approval by the Department, shall determine sampling locations.
4. The System owner shall have the Company or its designee conduct a design review for any proposed non-residential System or any residential System with a design flow 2,000 GPD or greater to ensure that the proposed use of the System is consistent with the unit's capabilities.
5. Operation and Maintenance Agreement:
 - A. Throughout its life, the owner shall operate and maintain the System in accordance with the Company and designer's operation and maintenance requirements and this Approval. To ensure proper operation and maintenance (O&M), the owner shall enter into an O&M agreement. No O&M agreement shall be for less than one year.
 - B. No System shall be used until an O&M agreement is submitted to the approving authority which:
 - i. Provides for the contracting of a person or firm trained by the Company as provided in Section VI (5) and competent in providing services consistent with the System's

- specifications, with the operation and maintenance requirements specified by the Company and the designer, and with any specified by the Department;
- ii. Contains procedures for notification to the Department and the local board of health within five days of a System failure or alarm event and for corrective measures to be taken immediately;
 - iii. Provides the name of an operator, which must be a Massachusetts certified operator if one is required by 257 CMR 2.00, that will operate and monitor the System;
 - iv. For residential Systems installed with a reduced SAS the operator must inspect, field test and maintain the System at least every six months and anytime there is an alarm event. For residential Systems with standard sized SAS inspection and field testing shall be conducted once per year. For all other Systems the operator must inspect, field test and maintain the System at least every three months and anytime there is an alarm event. The System owner shall notify the Department and the local approving authority in writing within seven days of any cancellation, expiration or any other change in the terms and/or conditions of their O&M agreement.
6. Prior to transferring any or all interest in the property served by the System, or any portion of the property, including any possessory interest, the System owner shall provide written notice of all conditions contained in this Approval to the transferee(s). Any and all instruments of transfer and any leases or rental agreements shall include as an exhibit attached thereto and made a part thereof a copy of this Approval for the System.
 7. By January 31st of each year for the previous year, the System owner shall submit to the local approving authority all data collected in accordance with item 5, above, including all Department Title 5 IA O&M checklists and System technology checklists completed during the previous calendar year by the System operator for each inspection performed.
 8. After final inspection of the System by the Approving Authority but prior to the issuance of a Certificate of Compliance for the System, the System owner shall record and/or register in the appropriate Registry of Deeds and/or Land Registration Office, a Notice disclosing both the existence of the alternative septic system subject to this Approval on the property and the Department's approval of the System. If the property subject to the Notice is unregistered land, the Notice shall be marginally referenced on the owner's deed to the property. Within 30 days of recording and/or registering the Notice, the System owner shall submit the following to the Department and the local approving authority: (i) a certified Registry copy of the Notice bearing the book and page/instrument number and/or document number; and (ii) if the property is unregistered land, a Registry copy of the owner's deed to the property, bearing the marginal reference.

VI. Conditions Applicable to the Company

1. The Company shall notify the Director of the Wastewater Management Program at least 30 days in advance of the proposed transfer of ownership of the technology for which this Approval issued. Said notification shall include the name and address of the proposed new owner and a written agreement between the existing and proposed new owner containing a specific date for transfer of ownership, responsibility, coverage and liability between them. All provisions of this Approval applicable to the Company shall be applicable to successors and assigns of the Company, unless the Department determines otherwise.

2. The Company shall develop and submit to the Department within 60 days of the effective date of this Approval: minimum installation requirements; an operating manual, including information on substances that should not be discharged to the System; and a recommended schedule for maintenance of the System essential to consistent successful performance of the installed Systems.
3. The Company shall make available, in print and electronic format, the referenced procedures and protocol in Sections V (5) and VI (3) to owners, operators, designers and installers of the System.
4. The Company shall institute and maintain a program of operator training and continuing education, as approved by the Department. The company shall update the list of qualified operators and make the list known to users of the technology.
5. The Company or its designee shall conduct a design review for any proposed non-residential System or any residential System with a design flow 2,000 GPD or greater to ensure that the proposed use of the System is consistent with the unit's capabilities.
6. The Company shall furnish the Department any information that the Department requests regarding the System within 21 days of the receipt of that request.
7. The Company shall include copies of this Approval and the procedures and protocol described in Sections V (5) and VI (3) for each System that is sold. Also, in any contract executed by the Company for distribution or re-sale of the System, the Company shall require the distributor or re-seller to provide each purchaser of the System with copies of this Approval and the procedures and protocol described in Sections V (5) and VI (3).
8. The Company shall comply with 310 CMR 15.000 and all the Department policies and guidance that apply and as they may be amended from time to time.

VII. Reporting

1. All notices and documents required to be submitted to the Department by this Approval shall be submitted to:

Director
Wastewater Management Program
Department of Environmental Protection
One Winter Street - 5th floor
Boston, Massachusetts 02108

VIII. Rights of the Department

1. The Department may suspend, modify or revoke this Approval for cause, including, but not limited to, non-compliance with the terms of this Approval, non-payment of the annual compliance assurance fee, for obtaining the Approval by misrepresentation or failure to disclose fully all relevant facts or any change in or discovery of conditions that would constitute grounds for discontinuance of the Approval, or as necessary for the protection of public health, safety, welfare or the environment, and as authorized by applicable law. The Department reserves its rights to take any enforcement action authorized by law with respect to this Approval and/or the System against the owner, or operator of the System and/or the Company.



TOWN OF BOURNE

Board of Assessors
24 Perry Avenue
Buzzards Bay, MA 02532
(508) 759-0600 Ext. 1510



Michael Leitzel, Chairperson
Ellen Doyle Sullivan, Clerk
Donna Barakauskas, Member

Rui Pereira, MAA
Director of Assessing

March 1, 2024

Sarah A. Garrity
c/o Bracken Engineering, Inc.
49 Herring Pond Rd.
Buzzards Bay, MA 02532

Re: Abutters List for Map 4.1 Parcel 53
Property address: 78 Sagamore Road

As required by the Bourne Board of Health, pursuant with section 310 CMR 15.411(1), this is to certify that the attached list of names and addresses constitutes all of the parties in interest as shown on the most recent tax list of the Town of Bourne.

Abutting properties are: Map 4.0 Parcel 14, Map 4.1 Parcels 52, 54, 62 & 63.

Your filing fee of \$25.00 has been received by the Bourne Assessor's Office.

Please be advised that this abutters list is only good for 30 days from the date on this letter. Expired abutters list can be recertified for an additional filing fee.

See enclosed for abutters mailing addresses.

Board of Assessors

*Ellen Doyle Sullivan -
Donna Barakauskas
Michael Leitzel*

Extract: ABUTTERS LIST
 Database: LIVE
 Filter: Key IN 351,469,471,477,478
 Sort:

Report #24: Owner Listing Report
 Fiscal Year 2025

Bourne MA

Key	Parcel ID	Owner	Location	LCI/CI	Bk-Pg(Cert) /Dt	Mailing Street	Mailing City	ST	Zip Cd/County
351	4.0-14-0	TOWN OF BOURNE	280 STANDISH RD	N	845/1	24 PERRY AVE	BUZZARDS BAY	MA	02532
				9320	6/18/1953				
469	4.1-52-0	CONRAD ROBERT	84 SAGAMORE RD	N	34956/220	91 MILL BROOK AVE	WALPOLE	MA	02081
				1010	3/7/2022				
471	4.1-54-0	GOULET DAVID J & MARGARET L TR MDG REALTY TRUST	72 SAGAMORE RD	N	27904/56	PO BOX 119	SAGAMORE BEACH	MA	02562-0119
				1010	12/24/2013				
477	4.1-62-0	VITTIGLIO FERDINANDO J & DAWNE F VITTIGLIO	79 SAGAMORE RD	N	18896/235	789 WOBURN ST	WILMINGTON	MA	01887
				1010	6/9/2004				
478	4.1-63-0	HOLWAY RICHARD A & SUZANNE HOLWAY CONRAN TRS JEANNINE G	75 SAGAMORE RD	N	13000/89	127 MAPLE STREET UNIT 127	NEEDHAM	MA	02492
				1010	5/11/2000				

Total Records 5

MAIN OFFICE:
49 Herring Pond Road
Buzzards Bay, MA 02532
TEL: (508) 833-0070
FAX: (508) 833-2282



NANTUCKET OFFICE:
19 Old South Road
Nantucket, MA 02554
TEL : (508) 325-0044
www.brackeneng.com

March 27, 2024

CERTIFIED MAIL

RE : Notice of Public Hearing

Dear Abutter:

In accordance with the State Environmental Code, Title 5: 310 CMR 15.00, you are hereby notified that **Sarah Garrity** has requested a hearing before the Bourne Board of Health for relief from MA 310 15.00 (Title 5) and the Bourne Board of Health Regulations for the installation of an upgraded septic system utilizing Innovative/Alternative technology. The location of the property for which approval is sought is **78 Sagamore Road (Map 4.1, Parcel 53), Sagamore Beach** where you are listed as an abutter. The following *Local Upgrade Approval Waivers and Local Variances* will be discussed at the hearing:

- **310 CMR 15.405(1)(f) – A 36’ Local Upgrade Approval Waiver from full compliance is requested for a 14’ setback from proposed soil absorption system to a Coastal Bank.**
- **A 136’ local variance is requested from the BOURNE BOARD OF HEALTH Regulations for a 14’ setback from a proposed soil absorption system to a Coastal Bank.**

This hearing is **tentatively** scheduled for Wednesday, April 10th at **5:30 p.m.** in Conference Room #2 at the Bourne Veteran’s Memorial Community Building, 239 Main Street, Buzzards Bay. ***Please confirm the date, time and location of the meeting with the Town, in case of any changes.*** Information regarding the hearing may be available for your review one week prior to the meeting by contacting the Bourne Health Department at 508-790-0600, Ext. 1513, Monday through Friday from 8:30 a.m. until 4:30 p.m.

Meeting agendas are posted on the Town of Bourne website, www.townofbourne.com/health no less than 48 hours in advance of the hearing. Should you have any questions or concerns, please do not hesitate to contact the undersigned at zac@brackeneng.com or the Bourne Health Department at 508-790-0600, Ext. 1513.

Sincerely,

BRACKEN ENGINEERING INC.

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

Zachary L. Basinski, PE, CFM
Senior Project Manager
Agent for the Applicant

9589 0710 5270 1225 2495 78

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage: \$.64
Certified Fee: \$ 4.40
Return Receipt Fee: \$ 3.65
Total Postage & Fees: \$ 8.69



David J. & Margaret L. Goulet, TRS
MDG Realty Trust
PO Box 119
Sagamore Beach, MA 02562-0119
78 Sagamore RD, Bourne - BOH

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1225 2495 54

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage: \$.64
Certified Fee: \$ 4.40
Return Receipt Fee: \$ 3.65
Total Postage & Fees: \$ 8.69



Town of Bourne
24 Perry Avenue
Buzzards Bay, MA 02532
78 Sagamore RD, Bourne - BOH

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1225 2477 72

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage: \$.64
Certified Fee: \$ 4.40
Return Receipt Fee: \$ 3.65
Total Postage & Fees: \$ 8.69



Ferdinando J. Vittiglio &
Dawne F. Vittiglio
789 Woburn Street
Wilmington, MA 01887
78 Sagamore RD, Bourne - BOH

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1225 2493 18

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage: \$.64
Certified Fee: \$ 4.40
Return Receipt Fee: \$ 3.65
Total Postage & Fees: \$ 8.69



Richard A. Holway &
Suzanne Holway Conran, TRS
Jeannine G Holway Nom. Trust
127 Maple Street, Unit 127
Needham, MA 02492
78 Sagamore RD, Bourne - BOH

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1225 2495 61

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage: \$.64
Certified Fee: \$ 4.40
Return Receipt Fee: \$ 3.65
Total Postage & Fees: \$ 8.69



Robert Conrad
91 Mill Brook Avenue
Walpole, MA 02081
78 Sagamore RD, Bourne - BOH

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions