



Truro Board of Health

Tuesday June 21, 2022
Regular Meeting- 4:30 PM



REGULAR MEETING

Remote Meeting Access Instructions

This will be a remote meeting. Citizens in Truro can view the meeting on Channel 18 and on the homepage of the Town of Truro website on the "Truro TV Channel 18" button found under "Helpful Links". To view, click on the green "Watch" button in the upper right of the page. To provide comment during the meeting, please call in toll free at 1-866-899-4679 and enter the following access code when prompted: 972-302-709; or access the meeting from your computer, tablet or smartphone. <https://global.gotomeeting.com/join/972302709> There may be a slight delay (15-30 seconds) between the meeting and the live-stream and television broadcast. If you are watching the meeting and calling in, please lower the volume on your computer or television during public comment so that you may be heard clearly. We ask that you identify yourself when calling in to help us manage multiple callers effectively. Citizens may also provide public comment for this meeting by emailing the Health Agent Emily Beebe at eebebe@truro-ma.gov with your comments.

I. **PUBLIC COMMENT:** *Please note that the Commonwealth's Open Meeting Law limits any discussion by members of the Board of an issue raised to whether that issue should be placed on a future agenda*

II. AGENDA ITEMS

1. **Discussion/Presentation: Outer Cape Public Health Needs Assessment-** presented by Patrice Barrett, Branstable County Health Department
2. **2022 License for Camp Lightbulb:** Puck Markham
3. **2022 License for Pavomet Circus Camp:** Kevin Rice
4. **Title 5 upgrade-extension request for waiver of time:** 69 Old County Rd, Paul Berman
5. **Variance Request/Local Upgrade Approval:** 3 Knowles Heights, Topside Cottages
6. **Variance Request/Local Upgrade Approval:** 3 Fisher Path, Robert Tobin et al
7. **New Retail Food Permit:** Town of Truro
8. **Well water testing:Rental registration 2022-** discussion on proposed implementation policy
9. **Reorganization of the Board**

III. MINUTES:

IV. REPORTS

- o Health Agent's Report – Stormwater management



CAMP# 2022-140

HEALTH DEPARTMENT
TOWN OF TRURO

MAY 31 2022

RECEIVED BY: _____

**TOWN OF TRURO
BOARD OF HEALTH**

**APPLICATION FOR LICENSE TO CONDUCT A
RECREATIONAL CAMP FOR CHILDREN**

Renewal New

In accordance with MGL c.111, Section 31, and 105 CMR 430.000, State Sanitary Code, Chapter IV, the undersigned makes application to the Board of Health or approving authority to operate a recreational camp for children in the Town of Truro.

PART I - TO BE FILLED IN BY APPLICANT

Name of Camp: CAMP LISURBULL
Site Address: TRURO ROAD JUN PANEY ROAD, TRURO, MA 02666
Site Telephone: _____

Name of Camp Owner: CAMP LISURBULL
Office Address: _____
Telephone Number: _____

Name of Camp Operator (if different): PUCU MARILYN
Address: AS ABOVE
Telephone Number: AS ABOVE

Name of Health Care Consultant: SILVIA RODERIK
Address: _____
Telephone Number: _____ MA-02657

Type of Camp:
 Day Residential Sports

Hours of Operation: 24 HRS.
Dates of Operation: Opening: 07/03/22 Closing: 07/23/22

Activities:

Swimming Pool Location of Pool: _____

Bathing Beach Location of Bathing Beach: BALISTON BEACH

PROVINCELAN TOWN BEACH

Meals Provided:

Yes If yes you will need to complete a Temporary Food Service Application.

No

Camp Director:

Name: ANDREW WYANT

Age: 30

Coursework in camping administration:

AMERICAN COUNCIL ASSN. COURSE PENDING

Previous camp administration experience:

INSTRUCTOR, COUNSELOR, MANAGER AT VARIOUS CAMPS

FROM 2013-2017. COUNSELOR WITH CAMP LEISURE 2020-2022.

CAMP DIRECTOR WITH CAMP LEISURE 2022

Health Care Consultant

Name: SUZAN RORER

Type of Medical License (must be a physician, nurse practitioner, or physician assistant with pediatric training): NURSE PRACTITIONER MA License Number 113351

Health Supervisor

Name: ANDREW WYANT

Age: 30

Type of Medical License, Registration or Training (See 105 CMR 430.159(C):

PHYSICIAN

Aquatics Director

Name: ANDREW WYANT

Age: 30

Age:

Lifeguard Certificate issued by: AMERICAN RED CROSS

Expiration date: 06/20/23

American Red Cross CPR Certificate:

Expiration date: 06/20/23

American First Aid Certificate:

Expiration date: 06/20/23

Previous aquatics supervisory experience: CAMP LIBERTY 2021

Firearms Instructor

Name: NIA

National Rifle Association Instructor's card (or equivalent): _____

Date certified: _____ Expiration date: _____

Horseback Riding Instructor

Name: NIA

License Number: _____ Expiration date: _____

Stable: _____

Location: _____

Licensed in accordance with MGL Ch.111 § 155, 158: Yes No

Attach the names, ages, applicable current certifications (if any), such as First Aid, and the anticipated role at the camp of all supervisory staff (see below). Use as many pages as necessary to complete this.

Supervisory staff means those persons with the responsibility, authority and training to provide direct supervision to camper groups. This may include counselors, junior counselors, general activity leaders or other staff who provide supervision to campers

Certification

I certify that the information I have provided is true and accurate. I fully understand that granting of the License to Operate a Recreational Camp for Children is contingent upon my adherence to all applicable State laws and local regulations governing recreational camps for children. Failure to comply may result in the suspension or revocation of my License to operate and any other legal action deemed appropriate by the Town of Truro.

[Signature]
Signature of Applicant

05/27/22
Date

See the next page for a list of documents that must be completed and submitted before your application for a license can be fully processed. You are strongly encouraged to complete these documents as soon as possible and submit them in advance. This will expedite the licensing process.



SUBMIT COMPLETED FORM TO THE HEALTH DEPARTMENT

PS# 2022-140A

Town of Truro Farmers Market/Ag Fair/Temporary Food Service Permit

Applicant (check one) private individual, organization or business non-profit organization
[must attach copy of Form 501(3)(c)]

Name of Business/Organization: CAMP WINTHROP
Address: 707 WINTHROP AVENUE #106, LOS ANGELES, CA 90038

Authorized Representative or Contact:

Name: PUCK MARKHAM Email: [REDACTED]
Address: 13 ABOVE

Telephone Days: [REDACTED] Evenings: () SAME Fax [REDACTED]

Requested Location/Facility TRURO MARKET

Requested Dates 07/03/22 - 07/23/22

Requested Times _____ Rain Dates/Times (Must be completed) _____

Before completing this application, read the temporary food service "Are You Ready?" Checklist. Have you read this material?
____ YES _____ NO

Foods to be Sold/Served

- Packaged Baked Goods (breads, pies, cookies, cakes and confectionaries). Cream filled pastries, cheese cake or custard type pastries prohibited.
- Seed sprouts
- Jams or Jellies
- Shellfish: Lobster, Crab, Oysters, Clams
- Finfish
- Vinegar with or without herbs
- Dairy: Milk or milk products such as cheese.
- Meat or Poultry (processed in a federal/state licensed inspected facility)
- Other: _____

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 02 2022

RECEIVED BY _____

Food Sampling: Y or N If yes, attach sampling protocol.

Base of Operations

- Foods prepared/processed at a Truro licensed facility. Name of licensed facility: _____
- Foods prepared/processed outside Truro. Please attach a copy of your state or local food processing facility license, food establishment permit, food manufacturing license or residential kitchen permit and copy of your most recent inspection report.

I agree to any conditions specified by the Board of Health, Board of Health Farmer's Market Policy, 105 CMR 590.000 Minimum Sanitation Standards for Food Establishments - Chapter X, and the Federal 1999 Food Code.

PLEASE ATTACH COPY OF YOUR FOOD MANAGER CERTIFICATION AND ALLERGY AWARENESS TRAINING CERTIFICATE WITH THIS APPLICATION

APPLICANT'S SIGNATURE

05/31/22
DATE

Market Manager Approval

As the Market Manager for the Truro Farmer's Market, I have authorized the applicant to participate as a vendor.

Market Manager Signature

Date

AGRICULTURAL FAIR/TEMPORARY FOOD SERVICE

Menu: Attach or list all items. Any changes must be submitted and approved by the Health Department prior to the event.

COOL CAT BURGERS, PASTA NIGHT, PIZZA NIGHT.

Organizations Conducting Food Preparation:

List Names of all staff with a Food Manager Certification: (non-profit organizations, school events, church suppers and fairs exempt).

1. _____ Exp. Date: ____/____/____

2. _____ Exp. Date: ____/____/____

List Names of all staff with an Allergen Awareness Certification: (non-profit organizations, school events, church suppers and fairs exempt).

1. _____ Exp. Date: ____/____/____

2. _____ Exp. Date: ____/____/____

Base of Operation: (licensed fixed food establishment): _____

List each potentially hazardous food item, and for each item check which preparation procedure will occur.

Menu Items	Thaw	Cut/ Assemble	Cook	Cool	Cold Holding	Reheat	Hot Holding	Portion Package
1.								
2.								
3.								
4.								
5.								

SECTION B: At the booth:

Menu Items	Thaw	Cut/ Assemble	Cook	Cool	Cold Holding	Reheat	Hot Holding	Portion Package

Note: If your food preparation procedures cannot fit these charts, please list all of the steps in preparing each menu item on an attached sheet.

Food Sampling: Y or N If yes, attach sampling protocol.

I agree to any conditions specified by the Board of Health, 105 CMR 590.000 Minimum Sanitation Standards for Food Establishments - Chapter X, and the Federal 1999 Food Code. The above described establishment will be operated and maintained in accordance with the regulations.

Board of Health Comments or Conditions:

Approved _____ Not Approved _____

BOH or Health Agent

Date

JUL 02 2021

RECEIVED BY:

#2021-102



**TOWN OF TRURO
BOARD OF HEALTH**

**APPLICATION FOR LICENSE TO CONDUCT A
RECREATIONAL CAMP FOR CHILDREN**

Renewal New

In accordance with MGL c.111, Section 31, and 105 CMR 430.000, State Sanitary Code, Chapter IV, the undersigned makes application to the Board of Health or approving authority to operate a recreational camp for children in the Town of Truro.

PART I - TO BE FILLED IN BY APPLICANT

Name of Camp: Payomet Circus Camp

Site Address: 29 Old Dew Line Rd Truro, MA 02666

Site Telephone: 508-274-7011

Name of Camp Owner: Payomet Performing Arts Center

Office Address: PO Box 1202 Truro, MA 02666

Telephone Number: 508-247-5400

Name of Camp Operator (if different): Edgar Ortiz

Address: [REDACTED]

Telephone Number: [REDACTED]

Name of Health Care Consultant: Elizabeth Groom

Address: [REDACTED]

Telephone Number: [REDACTED]

Type of Camp:

Day Residential Sports

Hours of Operation: 9:00am-2:30pm

Dates of Operation: Opening: 7/05/2021 Closing: 8/20/2021

Activities:

Swimming Pool Location of Pool: _____
 Bathing Beach Location of Bathing Beach: _____

Meals Provided:

Yes If yes you will need to complete a Temporary Food Service Application.
 No

Camp Director:

Name: Edgar Ortiz
Age: 32

Coursework in camping administration:

BA Psychology

Previous camp administration experience:

2yrs+ Camp Director NECCA , 2yrs Camp Director Payomet Circus Camp

Health Care Consultant

Name: Marcia Dworkind

Type of Medical License (must be a physician, nurse practitioner, or physician assistant with pediatric training): _____ MA License Number MA72376

Health Supervisor

Name: Elizabeth Groom

Age: 25

Type of Medical License, Registration or Training (See 105 CMR 430.159(C):

First Aid/ C

Aquatics Director

Name: _____ Age: _____

Age: _____

Lifeguard Certificate issued by: _____

Expiration date: _____

American Red Cross CPR Certificate: _____

Expiration date: _____

American First Aid Certificate: _____

Expiration date: _____

Previous aquatics supervisory experience: _____

Firearms Instructor

Name: _____
National Rifle Association Instructor's card (or equivalent): _____
Date certified: _____ Expiration date: _____

Horseback Riding Instructor

Name: _____
License Number: _____ Expiration date: _____
Stable: _____
Location: _____

Licensed in accordance with MGL Ch.111 § 155, 158: Yes No

Attach the names, ages, applicable current certifications (if any), such as First Aid, and the anticipated role at the camp of all supervisory staff (see below). Use as many pages as necessary to complete this.

Supervisory staff means those persons with the responsibility, authority and training to provide direct supervision to camper groups. This may include counselors, junior counselors, general activity leaders or other staff who provide supervision to campers

Certification

I certify that the information I have provided is true and accurate. I fully understand that granting of the License to Operate a Recreational Camp for Children is contingent upon my adherence to all applicable State laws and local regulations governing recreational camps for children. Failure to comply may result in the suspension or revocation of my License to operate and any other legal action deemed appropriate by the Town of Truro.

Signature of Applicant



7/2/2021

Date

See the next page for a list of documents that must be completed and submitted before your application for a license can be fully processed. You are strongly encouraged to complete these documents as soon as possible and submit them in advance. This will expedite the licensing process.

Required Documents

See the MA Regulations for Minimum Standards for Recreational Camps for Children, State Sanitary Code, Chapter IV - 105 CMR 430.000 and the guidance documents issued by the Department of Public Health, Division of Community Sanitation for additional assistance with developing the following documents.

- Staff information forms (see attached)
- Procedures for the background review of staff (105 CMR 430.090)
- Copy of promotional literature (105 CMR 430.190(C))
- Procedures for reporting suspected child abuse or neglect (105 CMR 430.093)
- Health care policy (105 CMR 430.159(B))
- Discipline policy (105 CMR 430.191)
- Fire evacuation plan – approved by local fire department (105 CMR 430.210(A))
- Disaster plan (105 CMR 430.210(B))
- Lost camper plan (105 CMR 430.210(C))
- Lost swimmer plan (105 CMR 430.210(C))
- Traffic control plan (105 CMR 430.210(D))
- Day Camps – contingency plan (105 CMR 430.211)
- Primitive, Trip or Travel Camps – Written itinerary, including sources of emergency care, and contingency plans (105 CMR 430.212)
- Current certificate of occupancy from local building inspector (105 CMR 430.451)
- Written statement of compliance from the local fire department (105 CMR 430.215)
- If applying for initial license after January 1, 2000 – lab analysis of private water supply (if applicable) (105 CMR 430.300, .303)

Please note: If you are applying for an original camp license, that is, the original camp license in each community where the camp is located, you must file a plan showing the following with the board of health at least 90 days before your desired opening date (See MGL Ch. 140 s. 32A):

- Buildings, structures, fixtures and facilities
- Proposed source of water supply
- Works for disposal or sewage and waste water

JUL 02 2021

RECEIVED BY:



Payomet Circus Camp

GOALS AND OBJECTIVES

Payomet Circus Arts Camp Instructors and staff are committed to providing a fun and safe space to explore the world of circus. Students will get to try a variety of different circus disciplines under the supervision of qualified instructors. We believe in an active and hands on approach to learning all while encouraging creativity and kindness throughout their time at Circus Camp. Beyond entertaining our student, we seek to inspire them with the magical world of circus.

1. Promote a fun filled, respectful and safe environment, while exploring and learning about the world of circus arts through practice and circus related activities.
2. Build students confidence and self-esteem as well as an appreciation of their own capabilities.
3. Encourage teamwork through partner acrobatics and other team building exercises.
4. Foster a sense of community within the camp and encourage friendships and a supportive attitude between peers
5. Nurture individuality, creativity and self-expressiveness, allowing students to take what they have learned and "make it their own."

CircusCape
Payomet Performing Arts Center
29 Old Dewline Rd Truro, Massachusetts 02602
(508) 487 5400

Arozana Davis

69 Old County

From: [REDACTED]
Sent: Wednesday, June 8, 2022 8:50 AM
To: Arozana Davis
Cc: [REDACTED]
Subject: Re: BOH Waiver Extension

Dear Arozana,

I hereby request a short extension of the waiver period to install the septic system at 69 Old County Road, Truro, MA, 02666. Although I have tried to push the septic project forward as quickly as possible, the length of time it took for the engineer to deliver the plan was much longer than I expected, and the septic installation company could therefore not schedule installation by June 1, 2022. The good news is that the engineering plan has been completed and approved, and Brundage, the septic installation company, has now scheduled the installation for the end of June. Please note that, though there will be other work going on in the house in the next few weeks, we are not planning to occupy the house until July 29, 2022.

Please let me know if you need any additional information.

Paul

Paul Schiff Berman
Walter S. Cox Professor of Law
The George Washington University

[REDACTED]
he/him/his

On Wed, Jun 8, 2022 at 8:08 AM Arozana Davis [REDACTED] wrote:

Good Morning Paul,

When you came before the Board of Health for a Waiver of Time, they approved your request with the condition that the system be installed by June 1, 2022 and that the house be unoccupied until the system has been installed, inspected and certified. I spoke with Hannah from Brundage Site Works and she informed me that you asked her to wait until the end of June to begin work.

Since you have not installed the system by the deadline given, you will need to ask for an extension from the Board of Health. Please note that the house shall remain unoccupied until the system is installed.



J.M. O'REILLY & ASSOCIATES, INC.

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

June 10, 2022

JMO # 8669

Truro Board of Health
24 Town Hall Road
Truro, MA 02666

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 09 2022

RECEIVED BY:

RE: **Board of Health Variance Request**
3 Knowles Heights Road, Truro, MA
Map: 21 / Parcel: 7

Dear Board Members,

On behalf of our client, Topside Realty Trust, J.M. O'REILLY & ASSOCIATES, INC. is filing a request for Variances from 310 CMR 15.000 & Truro Board of Health Regulations for the sewage system upgrade at the above referenced property.

This property consists of a rental cottage colony, of approximately 14 cottages located on a 3.88 acre lot, with frontage on Cape Cod Bay. The family owned business was constructed in 1940 and has been in operation as a rental community since then, providing vacationers with a Cape Cod Experience like no other, with exceptional views to Cape Cod Bay, Provincetown and a pristine coastal beach. The site is served by mostly cesspool septic systems and several units that have connected to pre 1995 Title 5 system (see Design Plans, Sheet 1).

Septic flows have been tabulated to serve approximately 34 bedrooms and a workshop totaling 3,940 GPD of septic flow. Approximately half of the cottages are located within the 50 foot buffer zone to a Coastal Bank. The Eastern portion of the site and cottages are located within a State Mandated Zone 2 of a public water supply well.

As required by Truro Board of Health Regulations Section VI, Article 13, 1-2, a new Sewage Disposal System to serve the entire site has been designed. The system will serve the existing use with no other proposal's. The system consists of septic tanks and pump chambers for Units 1-5, located in the Northwest corner of the site (lowest in elevation), pumping up to a gravity sewer system and centrally located Septic Tanks, Biomicrobics Treatment Tanks, consisting of a FAST 4.5 Unit, A NitrIFAST 4.5 Unit, including Flow Equalization, a Pump Chamber and two Pressure Dosed Leach Fields. The leaching fields are to be located in the Eastern Portion of the property. The pressure distribution is provided by Oakson/Perc-Rite Drip Dispersal will provide drip irrigation. The leach fields are stoneless systems and are proposed to be covered with 6" Title Five Sand and 6" of Clean Sand Fill and then planted with vegetation.

The FAST Treatment units are approved under a General Permit to achieve Nitrogen Removal to 19 mg/l by Mass DEP.

Nitrogen Loading Calculations have been completed for the existing use and for the proposed sewage upgrade. The existing Nitrogen Loading is approximately 11.2 ppm and after the upgrade including IA technology the Nitrogen Loading will be approximately 6.2 ppm.

As required due to existing site location & onsite conditions we are seeking several variances from 310 CMR 15.000 & Truro Board of Health Regulations, Section 6, Article 9, Setbacks: Variance Requests are as follows and begin in the NorthWest lot corner and move landward:

- | | |
|---|-------------------------|
| 1. Septic Tank (1500 Gallon Poly) not 100' From a Coastal Bank
16' Held | 84' Variance Requested |
| 2. Pump Chamber (1000 Gallon Poly) not 100' From a Coastal Bank
16' Held | 84' Variance Requested |
| 3. Septic Tank (2500 Gallon) not 100' From a Coastal Bank
10' Held | 90' Variance Requested |
| 4. Pump Chamber not 100' From a Coastal Bank
23' Held | 77' Variance Requested |
| 5. Septic Tank (2500 Gallon) not within 3' of finish Grade
4.4' Held | 1.4' Variance Requested |
| 6. Pump Chamber (2000 Gallon) Not Within 3' of Finish Grade
5.0' Held | 2.0' Variance Requested |
| 7. Septic Tank #1 (8000 Gallon) not within 3' of Finish Grade
4.1' Held | 1.1' Variance Requested |
| 8. Septic Tank #2 (6000 Gallon) not within 3' of Finish Grade
4.0' Held | 1.0' Variance Requested |
| 9. Treatment Tank #1 (4224 Gallons) not within 3' of Finish Grade
3.8' Held | 0.8' Variance Requested |
| 10. Treatment Tank #2 (4224 Gallons) not within 3' of Finish Grade
6.3' Held | 3.3' Variance Requested |
| 11. Pump Chamber (6000 Gallon) Not within 3' of Finish Grade
7.9' Held | 4.9' Variance Requested |

We look forward to reviewing the Design and Variance requests with the Board on June 21, 2022. Please contact me directly should you have any questions or need any additional information prior to the hearing.

Very truly yours,
J.M. O'REILLY & ASSOCIATES, INC.

Matthew T. Farrell, EIT
Project Engineer

Cc: Client
John M. O'Reilly, PE, PLS

Encl: Variance Application Package

Fee: \$75.00



TRURO HEALTH &
CONSERVATION DEPARTMENT
24 Town Hall Road, Truro 02666

APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 6/10/2022

HEALTH DEPARTMENT
TOWN OF TRURO

Property Owner's Name: Topside Realty Trust c/o Bonnie Brown

JUN 09 2022

Mailing Address: P.O. Box 386, N, Truro, MA 02652

RECEIVED BY:

V 2022-10

Address of Property: 3 Knowles Heights Road

Map and Parcel Number: Map # 21 Parcel # 7

Design Engineer/Sanitarian Matthew T. Farrell, E.I.T.

Firm/Company Name: J.M. O'Reilly & Associates Inc. Phone #: 508-896-6601

Address: P.O. Box 1773, Brewster, MA 02631

Please check type of variance requested:

Title 5 Variance Request: Section 310 CMR 15.211 (Setbacks)

Board of Health Variance Request: Section/Article Section 6, Article 9; Required Setbacks

Signature (Representative)

Date

Signature (Property Owner)

NITROGEN LOADING CALCULATIONS _Existing

Cottages 35.8 Bedroom

TopsideRealty Trust #8669

Impervious Surfaces: Roof Area: 11,364 Paving Area: 17,763

Lot Size: 169,118 ft²

Natural Area: 139,991 Lawn Area: -

Title V Flow: 110 gallons/day per bedroom

WASTEWATER

Title V (110 gpd/bedroom)

$$\frac{35.8 \text{ bedrooms}}{1} \times \frac{110}{\text{bedroom}} \times \frac{3.785}{\text{gal}} = \frac{14905.33}{\text{L/d}} \times \frac{35 \text{ mg}}{\text{L}} = \frac{521,686.6}{\text{mg/d}}$$

Actual (assume 2.5 people/unit average occupancy within the town)

$$\frac{35.8 \text{ bedrooms}}{1} \times \frac{110}{\text{bedroom}} \times \frac{3.785}{\text{gal}} \times \frac{35}{84} = 6,210.6 \text{ L/d} \times \frac{35 \text{ mg}}{\text{L}} = \frac{217,369.4}{\text{mg/d}}$$

IMPERVIOUS SURFACES

Roof

$$\frac{11,364}{1} \times \frac{40 \text{ in}}{\text{yr}} \times \frac{\text{ft}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \frac{2939.1}{\text{L/d}} \times \frac{0.75 \text{ mg}}{\text{L}} = \frac{2,204.3}{\text{mg/d}}$$

Paving

$$\frac{17,763}{1} \times \frac{40 \text{ in}}{\text{yr}} \times \frac{\text{ft}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \frac{4594.0}{\text{L/d}} \times \frac{1.5 \text{ mg}}{\text{L}} = \frac{6,891.1}{\text{mg/d}}$$

LAWN

$$\frac{-}{1} \times \frac{3 \text{ lbs}}{1,000 \text{ ft}^2 \text{ yr}} \times \frac{1 \text{ yr}}{365 \text{ d}} \times \frac{454,000}{\text{lb}} \times 0.25 = \frac{0.0}{\text{mg/d}}$$

NATURAL

$$169,118 - 29,725 = 139,393$$

$$\frac{139,393}{1} \times \frac{1.33}{\text{yr}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \frac{14,384.4}{\text{L/d}}$$

SUMMARY

$$\text{Title V Flow} \quad \frac{521,686.6 + 2,204.3 + 6,891.1 + 0.0 \text{ mg}}{14905.33 + 2939.1 + 4594.0 + 14384.4 \text{ L}} = \frac{530,781.9 \text{ mg}}{36822.9 \text{ L}} = 14.41 \text{ ppm}$$

$$\text{Actual} \quad \frac{217,369.4 + 2,204.3 + 6,891.1 + 0.0 \text{ mg}}{6,210.6 + 2939.1 + 4594.0 + 14384.4 \text{ L}} = \frac{226,464.8 \text{ mg}}{28128.1 \text{ L}} = 8.05 \text{ ppm}$$

Final Calculation

ppm 11.23

NITROGEN LOADING CALCULATIONS _PROPOSED W/ I.A.

Cottages 35.8 Bedroom

TopsideRealty Trust #8669

Impervious Surfaces: Roof Area: 11,364 Paving Area: 17,763
 Lot Size: 169,118 ft²
 Natural Area: 139,991 Lawn Area: -
 Title V Flow: 110 gallons/day per bedroom

WASTEWATER

Title V (110 gpd/bedroom)

$$\frac{35.8 \text{ bedrooms}}{\text{bedroom}} \times \frac{110}{\text{gal}} \times \frac{3.785}{\text{L}} = \underline{14905.33} \text{ L/d} \quad \frac{19 \text{ mg}}{\text{L}} = \underline{\underline{283,201.3}} \text{ mg/d}$$

Actual (assume 2.5 people/unit average occupancy within the town)

$$\frac{35.8 \text{ bedrooms}}{\text{bedroom}} \times \frac{110}{\text{gal}} \times \frac{3.785}{\text{L}} \times \frac{35}{84} = 6,210.6 \text{ L/d} \times \frac{19 \text{ mg}}{\text{L}} = \underline{\underline{118,000.5}} \text{ mg/d}$$

IMPERVIOUS SURFACES

Roof

$$\frac{11,364}{\text{yr}} \times \frac{40 \text{ in}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{2939.1} \text{ L/d} \quad \frac{0.75 \text{ mg}}{\text{L}} = \underline{\underline{2,204.3}} \text{ mg/d}$$

Paving

$$\frac{17,763}{\text{yr}} \times \frac{40 \text{ in}}{12 \text{ in}} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{4594.0} \text{ L/d} \quad \frac{1.5 \text{ mg}}{\text{L}} = \underline{\underline{6,891.1}} \text{ mg/d}$$

LAWN

$$\frac{-}{1,000 \text{ ft}^2\text{yr}} \times \frac{3 \text{ lbs}}{365 \text{ d}} \times \frac{454,000}{\text{lb}} \times 0.25 = \underline{\underline{0.0}} \text{ mg/d}$$

NATURAL

$$169,118 - 29,725 = 139,393$$

$$\frac{139,393}{\text{yr}} \times \frac{1.33}{\text{ft}^3} \times \frac{28.32 \text{ L}}{\text{ft}^3} \times \frac{1 \text{ yr}}{365 \text{ d}} = \underline{\underline{14,384.4}} \text{ L/d}$$

SUMMARY

$$\text{Title V Flow} \quad \frac{283,201.3 + 2,204.3 + 6,891.1 + 0.0 \text{ mg}}{14905.33 + 2939.1 + 4594.0 + 14384.4 \text{ L}} = \frac{292,296.6 \text{ mg}}{36822.9 \text{ L}} = 7.94 \text{ ppm}$$

$$\text{Actual} \quad \frac{118,000.5 + 2,204.3 + 6,891.1 + 0.0 \text{ mg}}{6,210.6 + 2939.1 + 4594.0 + 14384.4 \text{ L}} = \frac{127,095.9 \text{ mg}}{28128.1 \text{ L}} = 4.52 \text{ ppm}$$

Final Calculation

ppm 6.23



J.M. O'REILLY & ASSOCIATES, INC.

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

June 10, 2022

JMO-8669

TO: Abutters

FROM: J.M. O'REILLY & ASSOCIATES, INC.
Matthew T. Farrell, EIT

RE: **Sewage System Replacement – Variance Notification**
Topside Cottages
3 Knowles Heights Road
Truro, MA

Dear Abutter,

On behalf of Topside Realty Trust, J. M. O'REILLY & ASSOCIATES, INC., is requesting the Truro Board of Health to review and grant Variances to the State and Local Sanitary Regulations for the replacement of the existing cesspool systems with a new Title 5 Sewage System, to serve the existing use at the above referenced property.

As required due to existing site location & onsite conditions we are seeking several variances from 310 CMR 15.000 & Truro Board of Health Regulations, Section 6, Article 9, Setbacks: Variance Requests are as follows:

1. Septic Tank (1500 Gallon Poly) not 100' From a Coastal Bank
16' Held 84' Variance Requested
2. Pump Chamber (1000 Gallon Poly) not 100' From a Coastal Bank
16' Held 84' Variance Requested
3. Septic Tank (2500 Gallon) not 100' From a Coastal Bank
10' Held 90' Variance Requested
4. Pump Chamber not 100' From a Coastal Bank
23' Held 77' Variance Requested
5. Septic Tank (2500 Gallon) not within 3' of finish Grade
4.4' Held 1.4' Variance Requested
6. Pump Chamber (2000 Gallon) Not Within 3' of Finish Grade
5.0' Held 2.0' Variance Requested
7. Septic Tank #1 (8000 Gallon) not within 3' of Finish Grade

4.1' Held	1.1' Variance Requested
8. Septic Tank #2 (6000 Gallon) not within 3' of Finish Grade	
4.0' Held	1.0' Variance Requested
9. Treatment Tank #1 (4224 Gallons) not within 3' of Finish Grade	
3.8' Held	0.8' Variance Requested
10. Treatment Tank #2 (4224 Gallons) not within 3' of Finish Grade	
6.3' Held	3.3' Variance Requested
11. Pump Chamber (6000 Gallon) Not within 3' of Finish Grade	
7.9' Held	4.9' Variance Requested

A hearing is scheduled with the Truro Board of Health on Tuesday, June 21, 2022 @ 4:30 pm in the small hearing room at Town Hall to discuss the proposal in greater detail.

If you plan to attend the hearing, please call the Board of Health to confirm date & time.

Thank You



TRURO ASSESSORS OFFICE
PO Box 2012 Truro, MA 02666
Telephone: (508) 214-0921
Fax: (508) 349-5506

Date: May 25, 2022

To: Matthew Farrell, J.M. O'Reilly & Associates Inc.

From: Assessors Department

Certified Abutters List: 3 Knowles Heights Road (Map 21 Parcel 7)

Board of Health

Attached is a combined list of abutters for 3 Knowles Heights Road (Map 21 Parcel 7).

The current owner is Topside Realty Trust.

The names and addresses of the abutters are as of May 20, 2022 according to the most recent documents received from the Barnstable County Registry of Deeds.

Certified by: _____

Laura Geiges
Assistant Assessor / Data Collector

TOWN OF TRURO, MA
 BOARD OF ASSESSORS
 P.O. BOX 2012, TRURO MA 02666

Custom Abutters List



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
462	21-4-1-R	LODI-GRUBER FAMILY TRUST TRS: GRUBER ELIZABETH	174 SHORE RD	15 DUNCKLEE STREET	NEWTON	MA	02461
463	21-4-2-R	SCRUGGS FAMILY TRUST TRS: SCRUGGS ALLIE & KAREN P	174 SHORE RD	C/O WALTON KAREN SCRUGGS 33 JANET RD	CHELMSFORD	MA	01824
464	21-4-3-R	SULLIVAN FAMILY TRUST TRS: JANE A SULLIVAN	174 SHORE RD	12 ROYAL LAKE DRIVE, UNIT 5	BRAINTREE	MA	02184
465	21-4-4-R	POPKO JULIAN S & MARY T	174 SHORE RD	20 PARKER ST	INDIAN ORCHARD	MA	01051
466	21-4-5-R	POPKO JULIAN S & MARY T	174 SHORE RD	20 PARKER ST	INDIAN ORCHARD	MA	01051
467	21-4-6-R	J L CAPE COD REALTY TRUST TRS: LEARY JOHN K JR & JOAN E	174 SHORE RD	3365 MAGNOLIA LANDING LN	N FORT MYERS	FL	33917
468	21-4-7-R	MAHONEY NOMINEE TR TRS: MAHONEY HUGH D & WILMA A	174 SHORE RD	134 STONEHENGE DR	PHILLIPSBURG	NJ	08865-2050
469	21-4-8-R	MCLAINE WARREN & KOVALESKY-MCLAINE LINDA	174 SHORE RD	9017 GOLDEN SUNSET LN	SPRINGFIELD	VA	22153-2454
470	21-4-9-R	SMALL RICHARD & PATRICIA	174 SHORE RD	1 MERWIN AVE, UNIT A2	MILFORD	CT	06460
471	21-4-10-R	DELUCA ROBERT W & LORI LYNN	174 SHORE RD	618 SEYMOUR DR	FRISCO	TX	75084-1005
472	21-4-11-R	MC SHARAR JOHN & MARGARET L	174 SHORE RD	79 MADISON AVE	GARNERVILLE	NY	10923
473	21-4-12-R	MC SHARAR JOHN T & MARGARET L	174 SHORE RD	79 MADISON AVE	GARNERVILLE	NY	10923-1306
474	21-4-13-R	JORGENSEN REVOCABLE TRUST TRS: JORGENSEN JOHN H ET AL	174 SHORE RD	235 EAST RIVER DR, RIVERPT 504	EAST HARTFORD	CT	06108-5015
475	21-4-14-R	WEADOCK FAMILY TRUST TRS: WEADOCK THOMAS J JR ET AL	174 SHORE RD	97 GREEN ST	NEEDHAM	MA	02492
476	21-4-15-R	JL CAPE COD REALTY TRUST TRS: LEARY JOHN JR & JOAN	174 SHORE RD	3365 MAGNOLIA LANDING LN	N.FORT MYERS	FL	33917

LG 5/25/2022

Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
477	21-4-16-E	PILGRIM BEACH CONDOMINIUM TR TRS: LANDER JEFFREY H ET AL	174 SHORE RD	PO BOX 83	NO TRURO	MA	02652-0083
478	21-4-17-R	NICKERSON IRREVOCABLE TRUST TRS LINDBERG LAURA	174 SHORE RD	8 DEER RUN DRIVE	WESTFORD	MA	01886
479	21-4-18-R	HENEBERRY FAMILY IRREVOC TRUST TRS: O'ROURKE JEANNE & THOMAS	174 SHORE RD	137 HAWTHORNE ROAD	NORWOOD	MA	02062
480	21-4-19-R	FATTMAN DONALD A & ANN MARIE	174 SHORE RD	206 BURBANK RD	SUTTON	MA	01590
5761	21-5-1-R	HANLON MARK	168 SHORE RD	BOX 890	N EASTHAM	MA	02651
5762	21-5-2-R	LANDERS CHRISTINE & GAYLE M & SEWELL JENNIFER	168 SHORE RD	89 THE MEADOWS	ENFIELD	CT	06082
5763	21-5-3-R	MYERS JOY A C/O LINDNER MEREDITH & PETER	168 SHORE RD	11 ORCHARD HEIGHTS RD	ESSEX	CT	06426
5764	21-5-4-R	LOOMIS-DAVERN LISA J & LAUREN	168 SHORE RD	88 CRYSTAL LAKE ROAD	MIDDLETOWN	CT	06457
5765	21-5-5-R	STUBBS ROBERT M & WALLEN PAUL	168 SHORE RD	43 LAKE RD	WOODBURY	CT	05798-2326
5766	21-5-6-R	FLOYD RANDALL R	168 SHORE RD	586 COMMERCIAL STREET, UNIT 8	PROVINCETOWN	MA	02657
5767	21-5-7-R	SAGERIAN JEAN M	168 SHORE RD	36 NEW BOSTON RD	STURBRIDGE	MA	01566
5768	21-5-8-R	TADDEI ANTHONY JR & BRIGHT KAREN T	168 SHORE RD	18 RUSSEL AVE	OCEANPORT	NJ	07757-1249
5769	21-5-9-R	RICHARDSON CRAIG PRESCOTT & SANDBERG ANITA MARIE	168 SHORE RD	100 GROVE ST	UPTON	MA	01668
5770	21-5-10-R	ARUTE MICHAEL C & KRISTEN G	168 SHORE RD	388 GARDNER STREET	HINGHAM	MA	02043
5771	21-5-11-R	FITZGERALD CATHLEEN F	168 SHORE RD	418 N MAPLE DR UNIT D	BEVERLY HILLS	CA	90210
5772	21-5-12-R	AGUANO ANTHONY & DUNN JESSIE	168 SHORE RD	67 QUAIL RUN	GLASTONBURY	CT	06033-2738
5773	21-5-13-R	PEAK JOHN P & FORD JOAN M	168 SHORE RD	PO BOX 136	NO TRURO	MA	02652-0136
6950	21-5-14-E	HARBOR VIEW VILLAGE CONDO TR TRS: JOHN PEAK, JOAN FORD &	168 SHORE RD	JEAN SAGERIAN PO BOX 136	NO TRURO	MA	02652
6418	21-6-1-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6419	21-6-2-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6420	21-6-3-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6421	21-6-4-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6422	21-6-5-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6423	21-6-6-R	SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T	1 KNOWLES HGTS RD	PO BOX 174	NO TRURO	MA	02652-0174
6970	21-6-7-E	SUNSET BLUFF CONDO TRUST	1 KNOWLES HGTS RD	1 KNOWLES HGTS RD	NO TRURO	MA	02652
484	21-8-0-R	DEMPSEY GEORGE & MURIEL A	6 KNOWLES HGTS RD	PO BOX 696	NO TRURO	MA	02652-0696
488	21-13-0-R	2018 BERTA B WALKER LIV. TRUST TRS: BERTA B WALKER	4 KNOWLES HGTS RD	208 BRADFORD ST	PROVINCETOWN	MA	02657
694	23-1-0-R	ROYTBERG ALINA & GLAZMAN LEV	5 KNOWLES HGTS RD	1140 BEACON ST, APT 303	BROOKLINE	MA	02446
610	24-22-0-R	TRONO THOMAS & MARY	8 KNOWLES HGTS RD	281 FARMCLIFF DR	GLASTONBURY	CT	06033

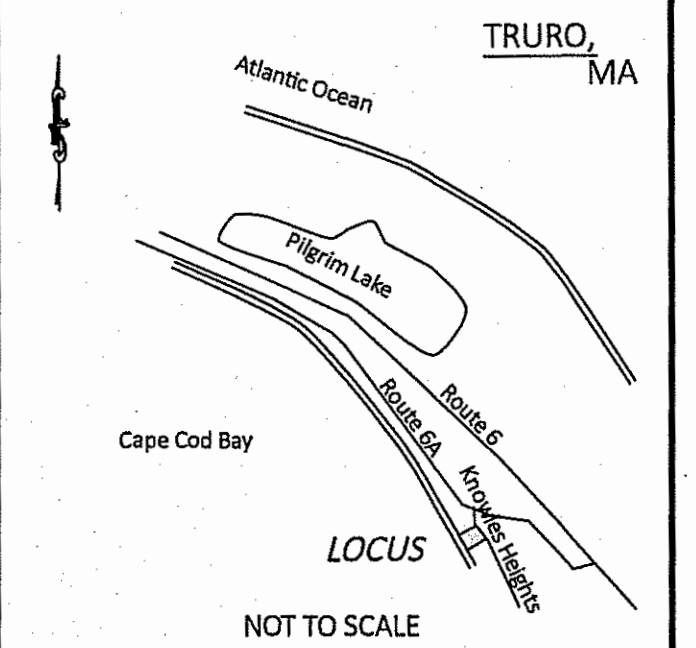
LG 5/25/2022

21-4-1-R	LODI-GRUBER FAMILY TRUST TRS: GRUBER ELIZABETH 15 DUNCKLEE STREET NEWTON, MA 02461	21-4-2-R	SCRUGGS FAMILY TRUST TRS: SCRUGGS ALLIE & KAREN P C/O WALTON KAREN SCRUGGS 33 JANET RD CHELMSFORD, MA 01824	21-4-3-R	SULLIVAN FAMILY TRUST TRS: JANE A SULLIVAN 12 ROYAL LAKE DRIVE, UNIT 5 BRAintree, MA 02184
21-4-4-R	POPKO JULIAN S & MARY T 20 PARKER ST INDIAN ORCHARD, MA 01051	21-4-5-R	POPKO JULIAN S & MARY T 20 PARKER ST INDIAN ORCHARD, MA 01051	21-4-6-R	J L CAPE COD REALTY TRUST TRS: LEARY JOHN K JR & JOAN E 3365 MAGNOLIA LANDING LN N FORT MYERS, FL 33917
21-4-7-R	MAHONEY NOMINEE TR TRS: MAHONEY HUGH D & WILMA A 134 STONEHENGE DR PHILLIPSBURG, NJ 08865-2050	21-4-8-R	MCLAINE WARREN & KOVALESKY-MCLAINE LINDA 9017 GOLDEN SUNSET LN SPRINGFIELD, VA 22153-2454	21-4-9-R	SMALL RICHARD & PATRICIA 1 MERWIN AVE, UNIT A2 MILFORD, CT 06460
21-4-10-R	DELUCA ROBERT W & LORI LYNN 618 SEYMOUR DR FRISCO, TX 75034-1005	21-4-11-R	MCSHARAR JOHN & MARGARET L 79 MADISON AVE GARNERVILLE, NY 10923	21-4-12-R	MCSHARAR JOHN T & MARGARET L 79 MADISON AVE GARNERVILLE, NY 10923-1306
21-4-13-R	JORGENSEN REVOCABLE TRUST TRS: JORGENSEN JOHN H ET AL 235 EAST RIVER DR, RIVERPT 504 EAST HARTFORD, CT 06108-5015	21-4-14-R	WEADOCK FAMILY TRUST TRS: WEADOCK THOMAS J JR ET AL 97 GREEN ST NEEDHAM, MA 02492	21-4-15-R	JL CAPE COD REALTY TRUST TRS: LEARY JOHN JR & JOAN 3365 MAGNOLIA LANDING LN N.FORT MYERS, FL 33917
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21-5-3-R	MYERS JOY A C/O LINDNER MEREDITH & PETER 11 ORCHARD HEIGHTS RD ESSEX, CT 06426	21-5-4-R	LOOMIS-DAVERN LISA J & LAUREN 88 CRYSTAL LAKE ROAD MIDDLETOWN, CT 06457	21-5-5-R	STUBBS ROBERT M & WALLEN PAUL 43 LAKE RD WOODBURY, CT 06798-2326
21-5-6-R	FLOYD RANDALL R 586 COMMERCIAL STREET, UNIT 8 PROVINCETOWN, MA 02657	21-5-7-R	SAGERIAN JEAN M 36 NEW BOSTON RD STURBRIDGE, MA 01566	21-5-8-R	TADDEI ANTHONY JR & BRIGHT KAREN T 18 RUSSEL AVE OCEANPORT, NJ 07757-1249
21-5-9-R	RICHARDSON CRAIG PRESCOTT & SANDBERG ANITA MARIE 100 GROVE ST UPTON, MA 01568	21-5-10-R	ARUTE MICHAEL C & KRISTEN G 388 GARDNER STREET HINGHAM, MA 02043	21-5-11-R	FITZGERALD CATHLEEN F 418 N MAPLE DR UNIT D BEVERLY HILLS, CA 90210

LG 5/25/2022

<p>21-5-12-R</p> <p>AGUANNO ANTHONY & DUNN JESSIE 67 QUAIL RUN GLASTONBURY, CT 06033-2738</p>	<p>21-5-13-R</p> <p>PEAK JOHN P & FORD JOAN M PO BOX 136 NO TRURO, MA 02652-0136</p>	<p>21-5-14-E</p> <p>HARBOR VIEW VILLAGE CONDO TR TRS: JOHN PEAK, JOAN FORD & JEAN SAGERIAN PO BOX 136 NO TRURO, MA 02652</p>
<p>21-6-1-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>	<p>21-6-2-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>	<p>21-6-3-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>
<p>21-6-4-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>	<p>21-6-5-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>	<p>21-6-6-R</p> <p>SUNSET BLUFF REALTY TRUST TRS: BURHOE RICHARD L & GLORIA T PO BOX 174 NO TRURO, MA 02652-0174</p>
<p>21-6-7-E</p> <p>SUNSET BLUFF CONDO TRUST 1 KNOWLES HGTS RD NO TRURO, MA 02652</p>	<p>21-8-0-R</p> <p>DEMPSEY GEORGE & MURIEL A PO BOX 696 NO TRURO, MA 02652-0696</p>	<p>21-13-0-R</p> <p>2018 BERTA B WALKER LIV. TRUST TRS: BERTA B WALKER 208 BRADFORD ST PROVINCETOWN, MA 02657</p>
<p>23-1-0-R</p> <p>ROYTBERG ALINA & GLAZMAN LEV 1140 BEACON ST, APT 303 BROOKLINE, MA 02446</p>	<p>24-22-0-R</p> <p>TRONO THOMAS & MARY 281 FARMCLIFF DR GLASTONBURY, CT 06033</p>	

LG 5/22/2022



PLAN BOOK 43 DEED BOOK 6398 ASSESSORS' MAP 21 PAGE 113 PARCEL 7

LEGEND

— 32	EXISTING CONTOUR
— 32	PROPOSED CONTOUR
X12.34	EXISTING SPOT GRADE
24x5	PROPOSED SPOT GRADE
— W	WATER SERVICE LINE
— O	OVERHEAD UTILITY SERVICE
— U	UNDERGROUND UTILITY SERVICE
— G	GAS SERVICE LINE
⊙	TEST HOLE / BORING LOCATION
ST	SEPTIC TANK
DB	DISTRIBUTION BOX
SAS	SOIL ABSORPTION SYSTEM
Reserve	RESERVED FOR FUTURE
⊕	UTILITY POLE
⊕	CATCH BASIN
⊕	FIRE HYDRANT
⊕	WELL
⊕	DRAINAGE MANHOLE
⊕	CONCRETE BOUND, FOUND
—	TOP OF BANK
—	LIMIT OF WORK
—	FENCE
—	EDGE OF CLEARING

PLAN REFERENCES
 Book 43 Page 113
 Book 241 Page 145
 Book 624 Page 4
 Land Court 11740U

HEALTH DEPARTMENT
 TOWN OF TRURO
 JUN 09 2022
 RECEIVED BY:

PERMIT SET-NOT FOR CONSTRUCTION

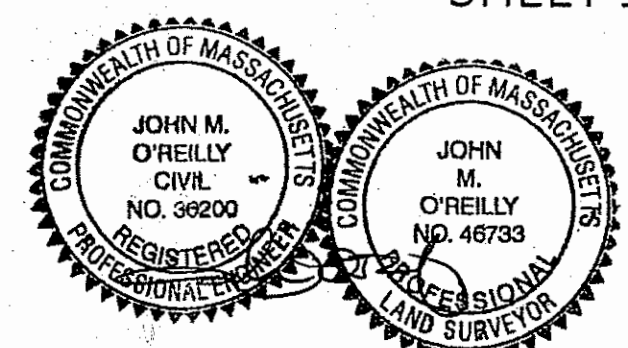
Topside Realty Trust
 P.O. Box 386, North Truro 02652

Site & Sewage Disposal System Design
 3 Knowles Heights Road, Truro, MA

J.M. O'REILLY & ASSOCIATES, INC.
 Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
 P.O. Box 1778
 (508)898-6801 Office Brewster, MA 02831 (508)898-6802 Fax

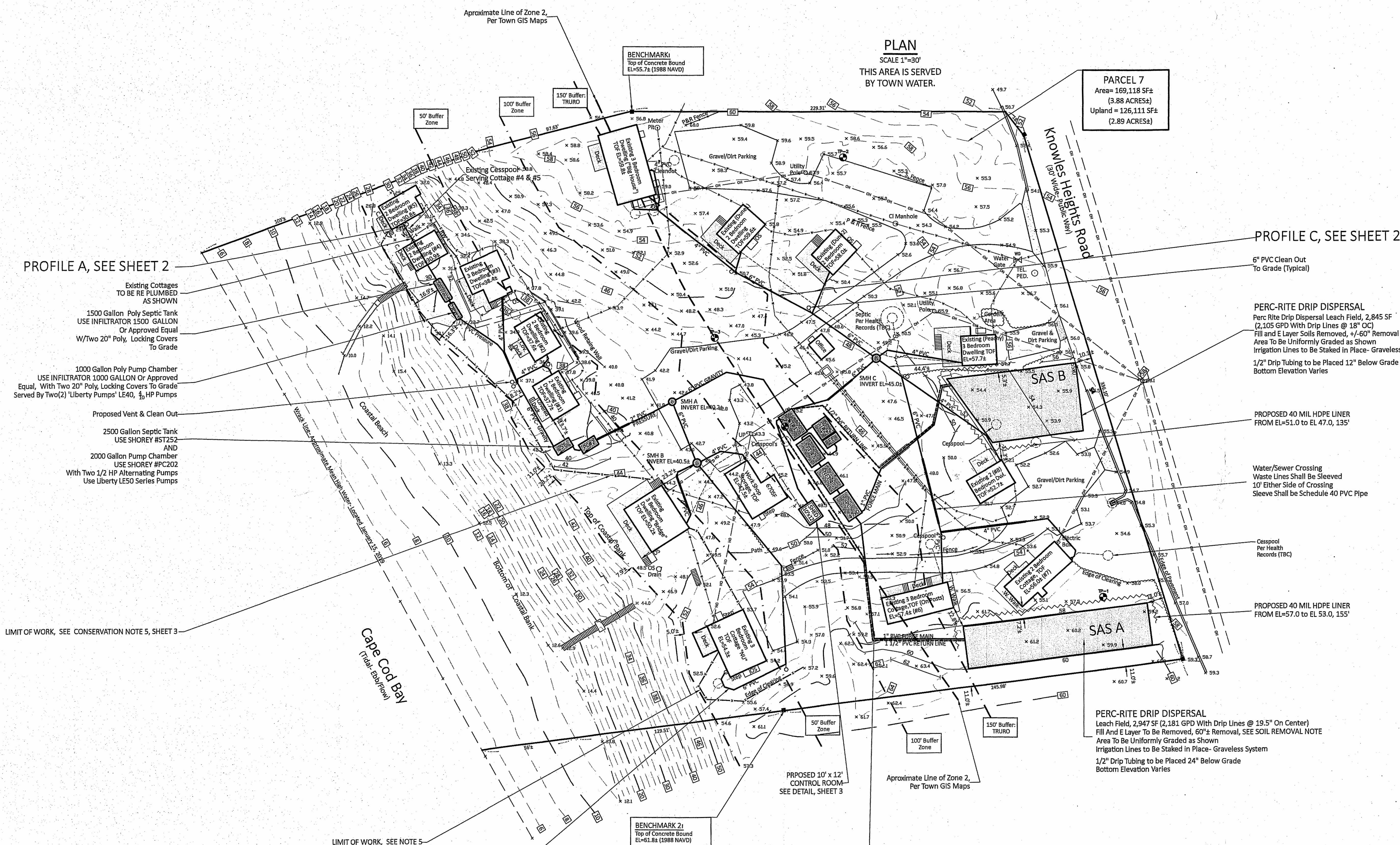
DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
6/3/22	As Noted	MTF	JMO	JMO-8669



G:\AJobs\Brown8669\Brown8669\sdspcrtr2.dwg, SHEET 1

PLAN
 SCALE 1"=30'
 THIS AREA IS SERVED
 BY TOWN WATER.

PARCEL 7
 Area= 169,118 SF±
 (3.88 ACRES±)
 Upland = 126,111 SF±
 (2.89 ACRES±)



PROFILE A, SEE SHEET 2

- Existing Cottages TO BE RE PLUMBED AS SHOWN
- 1500 Gallon Poly Septic Tank USE INFILTRATOR 1500 GALLON Or Approved Equal W/Two 20" Poly. Locking Covers To Grade
- 1000 Gallon Poly Pump Chamber USE INFILTRATOR 1000 GALLON Or Approved Equal, With Two 20" Poly. Locking Covers To Grade Served By Two(2) 'Liberty Pumps' LE40, 1/2 HP Pumps
- Proposed Vent & Clean Out
- 2500 Gallon Septic Tank USE SHOREY #57252
- 2000 Gallon Pump Chamber USE SHOREY #PC202 With Two 1/2 HP Alternating Pumps Use Liberty LE50 Series Pumps

PROFILE C, SEE SHEET 2

- 6" PVC Clean Out To Grade (Typical)
- PERC-RITE DRIP DISPERSAL Perc Rite Drip Dispersal Leach Field, 2,845 SF (2,105 GPD With Drip Lines @ 18" OC) Fill and E Layer Soils Removed, +/-60" Removal Area To Be Uniformly Graded as Shown Irrigation Lines to Be Staked in Place- Graveless System 1/2" Drip Tubing to be Placed 12" Below Grade Bottom Elevation Varies

PROPOSED 40 MIL HDPE LINER FROM EL=51.0 TO EL 47.0, 135'

Water/Sewer Crossing Waste Lines Shall Be Sleeved 10' Either Side of Crossing Sleeve Shall be Schedule 40 PVC Pipe

Cesspool Per Health Records (TBC)

PROPOSED 40 MIL HDPE LINER FROM EL=57.0 TO EL 53.0, 155'

PERC-RITE DRIP DISPERSAL
 Leach Field, 2,947 SF (2,181 GPD With Drip Lines @ 19.5" On Center) Fill And E Layer To Be Removed, 60" Removal, SEE SOIL REMOVAL NOTE Area To Be Uniformly Graded as Shown Irrigation Lines to Be Staked in Place- Graveless System 1/2" Drip Tubing to be Placed 24" Below Grade Bottom Elevation Varies

PROPOSED 10' x 12' CONTROL ROOM SEE DETAIL, SHEET 3

1 1/2" PVC Schedule 40 Return Line Line Shall be Run Back to The Inlet Of Septic Tank with 1 1/2" x 10" Inlet Tee

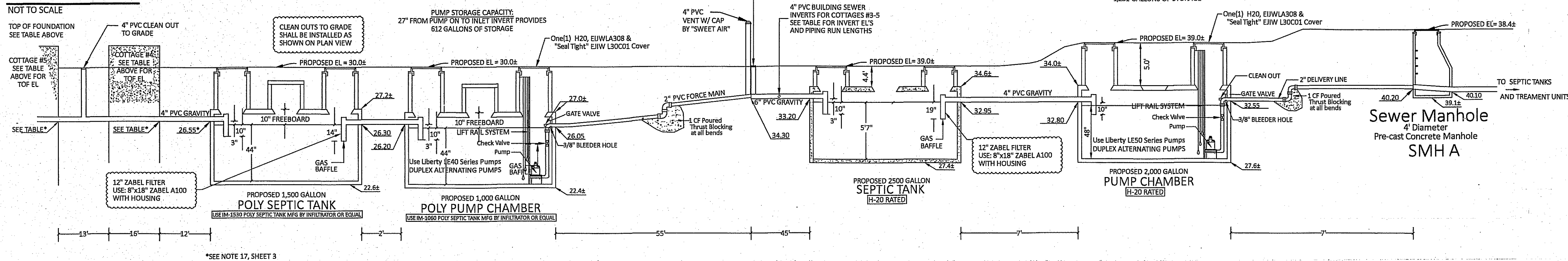
PROFILE B, SEE SHEET 2

VELOCITY ZONE EL=14 BASED ON CURRENT FEMA MAPS VELOCITY ZONE LANDWARD LIMIT AT THE TOP OF COASTAL BANK AS OUTLINED ON THE FEMA QUAD FOR THIS AREA. FEMA PANEL: 25001C01361, 7/16/14.

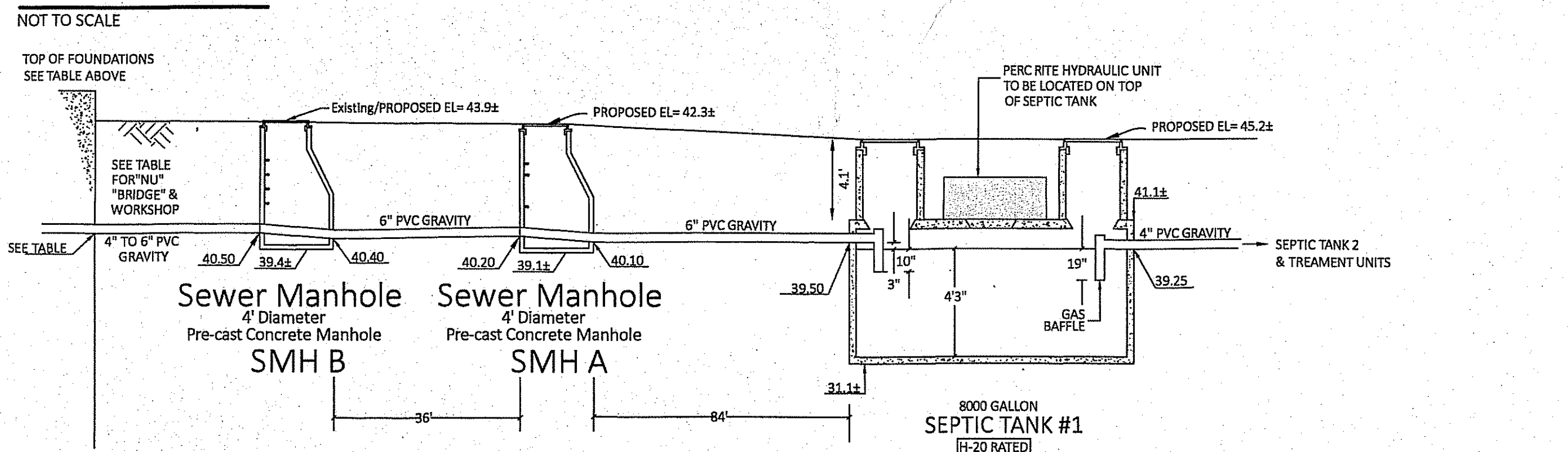
LIMIT OF WORK, SEE NOTE 5

LIMIT OF WORK, SEE CONSERVATION NOTE 5, SHEET 3

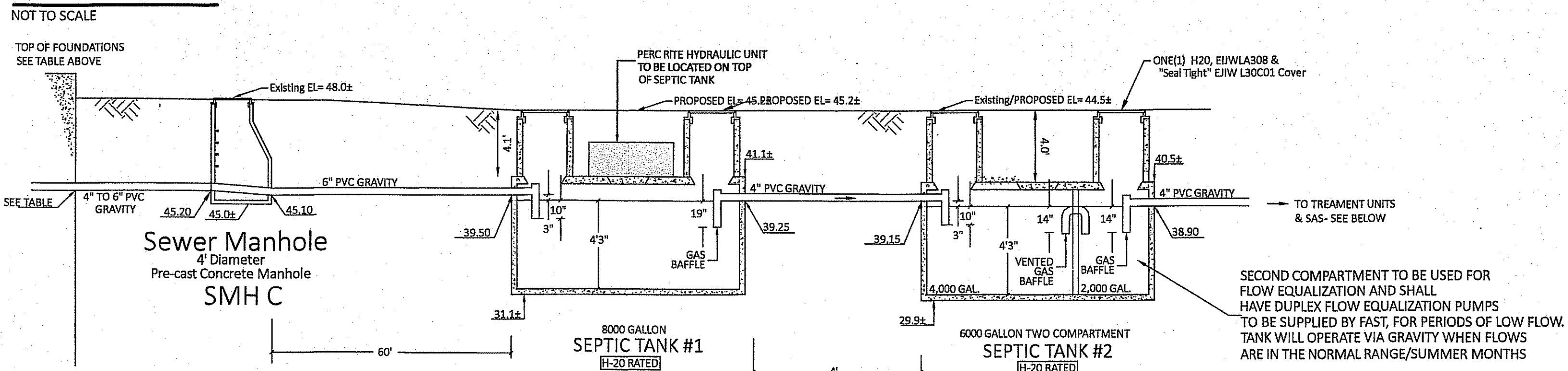
FLOW PROFILE A:



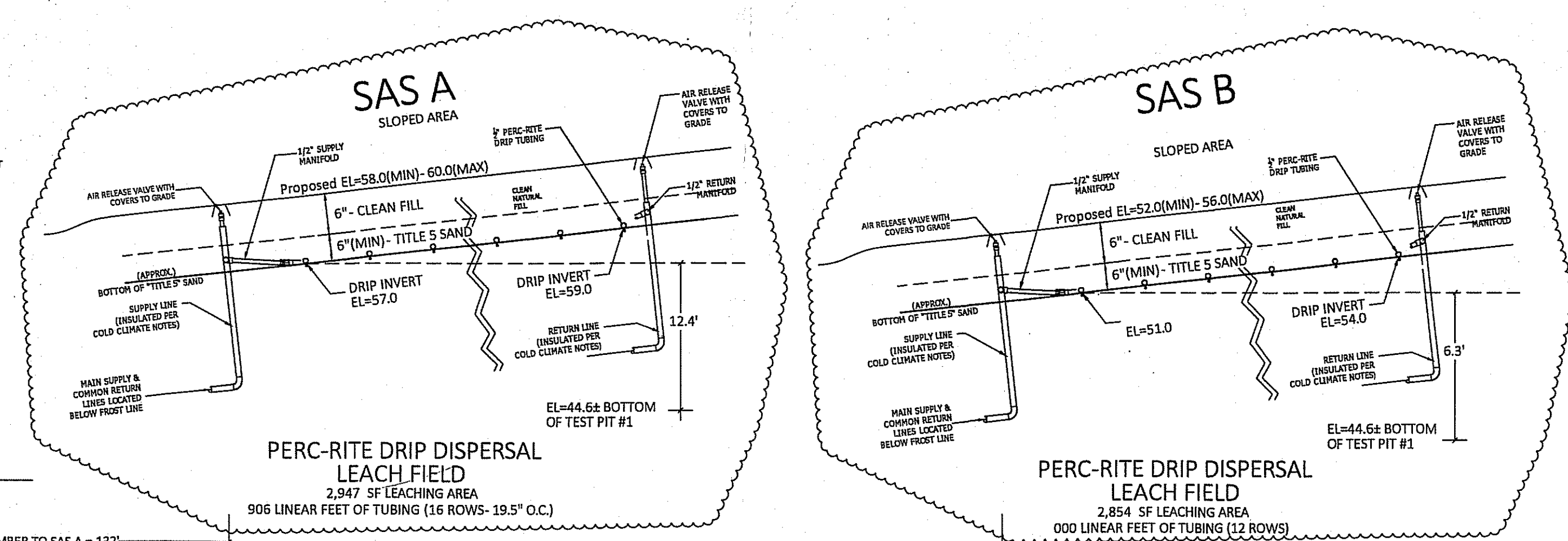
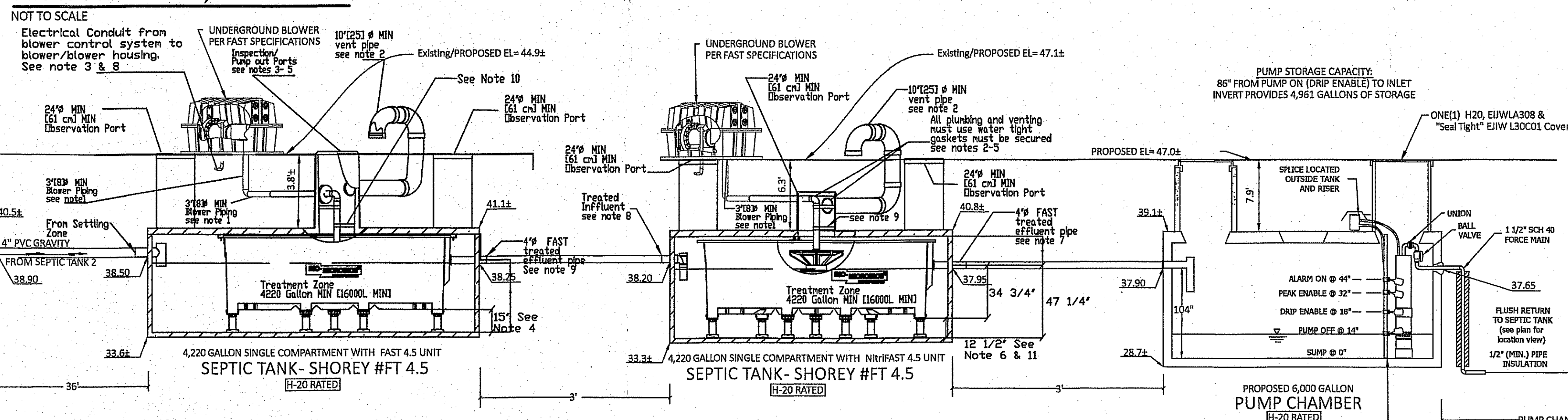
FLOW PROFILE B:



FLOW PROFILE C:



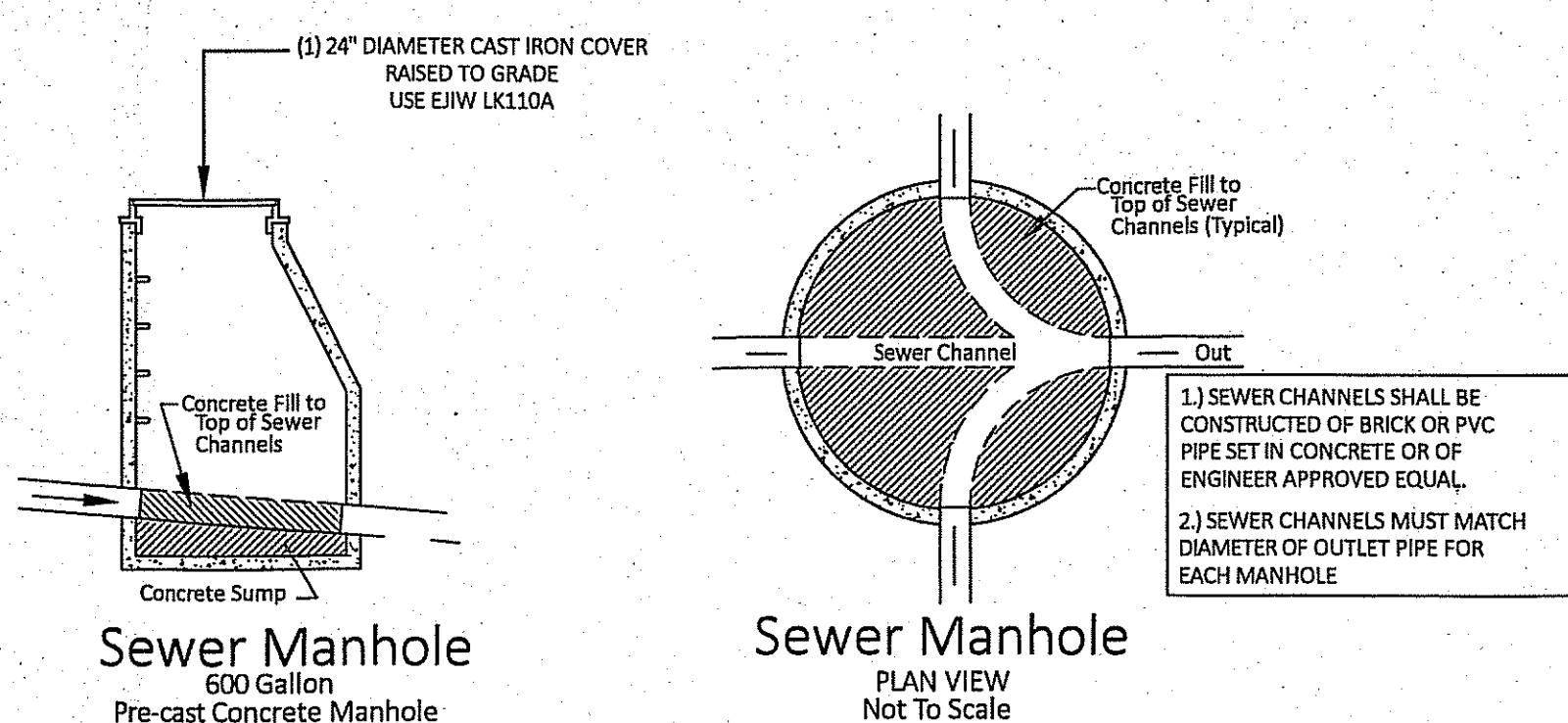
FLOW PROFILES A, B & C CONT:



SEWER ELEVATIONS/RUNS

COTTAGE/UNIT	INVERT @ UNIT	RUN UNIT TO ST	INVERT @ ST	INVERT @ SMH
PROFILE A: COTTAGES #5- #1				
UNIT # 5	EL= 27.4"	41 FEET	EL= 26.55±	NA
UNIT # 4	EL= 27.4"	28 FEET	EL= 26.55±	NA
UNIT # 3	EL= 35.4"	99 FEET	EL= 33.2±	NA
UNIT # 2	EL= 34.6"	72 FEET	EL= 33.2±	NA
UNIT # 1	EL= 34.7"	72 FEET	EL= 33.2±	NA
PROFILE B: COTTAGES "NU", "BRIDGE" & "WORKSHOP"				
UNIT "NU"	EL= 51.3"	188 FEET	NA	EL= 40.5±
UNIT "BRIDGE"	EL= 47.2"	44 FEET	NA	EL= 40.5±
UNIT "WorkShop"	EL= 44.5"	32 FEET	NA	EL= 40.5±
PROFILE C				
UNIT "Big House"	EL= 59.3"	188 FEET	NA	EL= 45.2±
UNIT #6	EL= 54.4±	147 FEET	NA	EL= 45.2±
UNIT #7	EL= 53.0±	212 FEET	NA	EL= 45.2±
UNIT #8	EL= 49.7±	98 FEET	NA	EL= 45.2±
DUNE #1	EL= 56.6±	112 FEET	NA	EL= 45.2±
DUNE #2	EL= 55.0±	73 FEET	NA	EL= 45.2±
PEACHY	EL= 54.7±	53 FEET	NA	EL= 45.2±

NOTES/LEGEND: *SEE NOTE 17, PAGE 3, P= PRESSURE, G=GRAVITY



- SEWER CHANNELS SHALL BE CONSTRUCTED OF BRICK OR PVC PIPE SET IN CONCRETE OR OF ENGINEER APPROVED EQUAL.
- SEWER CHANNELS MUST MATCH DIAMETER OF OUTLET PIPE FOR EACH MANHOLE

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 09 2022
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PERMIT SET-NOT FOR CONSTRUCTION

SHEET 2 OF 3

Scale: 1"=30'

TOPSIDE REALTY TRUST
P.O. Box 386, North Truro 02652

Site & Sewage Disposal System Design
3 Knowles Heights Road, Truro, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1673 Main Street - Route 6A
P.O. Box 1773
(508)898-6001 Office Brewster, MA 02631 (508)898-6002 Fax

DATE: 6/3/22 SCALE: As Noted BY: MTF CHECK: JMO JOB NUMBER: JMO-8669

GENERAL NOTES:

- A) NEITHER DRIVEWAYS NOR PARKING ARE ALLOWED OVER SEPTIC SYSTEM UNLESS H-20 COMPONENTS ARE USED.
- B) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONTRACTED AS SHOWN. ANY CHANGES SHALL BE APPROVED IN WRITING.
- C) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION NOTES:

- 1) ALL CONSTRUCTION SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5, AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.
- 2) SEPTIC TANK(S), GREASE TRAP(S), DOSING CHAMBER(S) AND DISTRIBUTION BOX(ES) SHALL BE SET ON A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED, OR ON A 6 INCH CRUSHED STONE BASE.
- 3) SEPTIC TANK(S) SHALL MEET ASTM STANDARD C127-93 AND SHALL HAVE AT LEAST THREE 2" DIAMETER MANHOLES. THE MINIMUM DEPTH FROM THE BOTTOM OF THE SEPTIC TANK TO THE FLOW LINE SHALL BE 48".
- 4) SCHEDULE 40 PVC INLET AND OUTLET TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK AND SHALL BE INSTALLED ON THE CENTERLINE OF THE TANK DIRECTLY UNDER THE CLEANOUT MANHOLE.
- 5) RAISE COVERS OF THE SEPTIC TANK AND DISTRIBUTION BOX WITH PRECAST CONCRETE WATER TIGHT RISERS OVER INLET AND OUTLET TEES TO WITHIN 6" OF FINISH GRADE, OR AS APPROVED BY THE LOCAL BOARD OF HEALTH AGENT.
- 6) PIPING SHALL CONSIST OF 4" SCHEDULE 40 PVC OR EQUIVALENT. PIPE SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 1%.
- 7) DISTRIBUTION LINES FOR SOIL ABSORPTION SYSTEM (AS REQUIRED) SHALL BE 4" SCHEDULE 40 PVC LAID AT 0.005 FT/FT. LINE SHALL BE CAPPED AT END OR AS NOTED.
- 8) OUTLET PIPES FROM DISTRIBUTION BOX SHALL REMAIN LEVEL FOR AT LEAST 2' BEFORE PITCHING TO SOIL ABSORPTION SYSTEM. WATER TEST DISTRIBUTION BOX TO ASSURE EVEN DISTRIBUTION.
- 9) DISTRIBUTION BOX SHALL HAVE A MINIMUM SUMP OF 6" BELOW THE OUTLET INVERT.
- 10) BASE AGGREGATE FOR THE LEACHING FACILITY SHALL CONSIST OF 3/4" TO 1-1/2" DOUBLE WASHED NATIVE STONE FREE OF IRON, FINES AND DUST AND SHALL BE INSTALLED BELOW THE CROWN OF THE DISTRIBUTION LINE TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM. BASE AGGREGATE SHALL BE COVERED WITH A 2" LAYER OF 1/8" TO 1/2" DOUBLE WASHED NATIVE STONE FREE OF IRON, FINES AND DUST.
- 11) VENT SOIL ABSORPTION SYSTEM WHEN DISTRIBUTION LINES EXCEED 50 FEET; WHEN LOCATED EITHER IN WHOLE OR IN PART UNDER DRIVEWAYS, PARKING AREAS, TURNING AREAS OR OTHER IMPERVIOUS MATERIAL; OR WHEN PRESSURE Dosed.
- 12) SOIL ABSORPTION SYSTEM SHALL BE COVERED WITH A MINIMUM OF 9" OF CLEAN MEDIUM SAND (EXCLUDING TOPSOIL).
- 13) FINISH GRADE SHALL BE A MAXIMUM OF 36" OVER THE TOP OF ALL SYSTEM COMPONENTS, INCLUDING THE SEPTIC TANK, DISTRIBUTION BOX, DOSING CHAMBER AND SOIL ABSORPTION SYSTEM. SEPTIC TANKS SHALL HAVE A MINIMUM COVER OF 9".
- 14) FROM THE DATE OF INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE SYSTEM.
- 15) SUBSURFACE COMPONENTS OF A SYSTEM SHALL NOT BE BACKFILLED OR OTHERWISE CONCEALED FROM VIEW UNTIL A FINAL INSPECTION HAS BEEN CONDUCTED BY THE APPROVING AUTHORITY AND PERMISSION HAS BEEN GRANTED BY THE APPROVING AUTHORITY TO BACKFILL THE SYSTEM. THE DESIGNER SHALL INSPECT THE CONSTRUCTION AFTER THE INITIAL EXCAVATION, PRIOR TO BACKFILLING, AND DURING BACKFILLING. IN ADDITION, THE FINAL INSPECTION OF THE SYSTEM SHALL BE CONDUCTED BY THE APPROVING AUTHORITY, THE SYSTEM INSTALLER AND DESIGNER PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE PURSUANT TO 310 CMR 15.021(3). ANY COMPONENT OF THE SYSTEM WHICH HAS BEEN COVERED WITHOUT SUCH PERMISSION SHALL BE UNCOVERED UPON REQUEST OF THE APPROVING AUTHORITY OR THE DEPARTMENT.

- 16) SOIL REMOVAL: ALL UNSUITABLE 'FILL' AND 'E' LAYER SOILS IN THE AREAS OF BOTH PROPOSED SOIL ABSORPTION SYSTEMS SHALL BE REMOVED DOWN TO THE LOAMY FINE SAND 'B' LAYER. (PERC-RITE DOES NOT REQUIRE SOIL REMOVALS BEYOND THE FOOTPRINTS OF THE PROPOSED SAS AREAS). PERC-RITE TUBING SHALL THEN BE INSTALLED ON TOP OF THE 'B' LAYER AND BACKFILLED WITH 6" MINIMUM OF CLEAN TITLIS SAND, FOLLOWED BY 6" MINIMUM OF CLEAN FILL. THE AREAS OF THE PROPOSED SOIL ABSORPTION SYSTEM SHALL BE GRADED SO THAT WATER DOES NOT Puddle ON TOP OF THE SYSTEMS.
- 17) THE DESIGN ENGINEER AND INSTALLER SHALL PERFORM A WALKTHROUGH OF ALL DWELLING & OFFICE UNITS TO VERIFY AND RECORD EXISTING INVERT ELEVATIONS & LOCATIONS, PRIOR TO INSTALLATION OF ANY SEPTIC SYSTEM COMPONENTS.

- 18) EXISTING CESSPOOLS TO BE REMOVED OR ABANDONED. FOR ALL CESSPOOLS REQUIRING REMOVAL; ANY CONTAMINATED SOIL WITHIN 5' OF THE PROPOSED PERC-RITE DRIP FIELDS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND. AREA TO BE COMPACTED TO MINIMIZE SETTLING. ANY CESSPOOLS TO BE ABANDONED; SHALL BE PUMPED DRY, FILLED WITH CLEAN SAND, AND ABANDONED IN PLACE.
- 19) EXISTING WASTELINE(S); INSTALLER TO CONFIRM EXISTING WASTELINE(S) BY WATER TESTING WITHIN THE DWELLINGS PRIOR TO SETTING ANY SYSTEM COMPONENTS.
- 20) INSTALLER TO CONFIRM LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO START OF CONSTRUCTION.
- 21) WATER/SEWER CROSSING: ALL WASTE LINES SHALL BE SLEEVED WITH SCH 40 PVC PIPING WHEREVER PROPOSED SEWER PIPING IS WITHIN 10 FEET OF EXISTING WATER SERVICE LINES.

ADDITIONAL PLAN NOTES

- A. BEDROOM COUNT FROM ASSESSORS RECORDS, TO BE CONFIRMED, THROUGH FLOOR PLANS AND/OR BUILDING WALK THROUGH BY ENGINEER, HEALTH AGENT OR BOTH PARTIES.
- B. ALL SEWAGE LOCATIONS BASED ON RECORDS AT THE TRURO HEALTH DEPARTMENT. ALL LOCATIONS TO BE CONFIRMED. SEVERAL UNITS NOT ACCOUNTED FOR; NO RECORDS. INSTALLER SHALL CONFIRM ALL EXISTING SEPTIC LOCATIONS BY ON SITE SEARCH METHODS.
- C. SYSTEM DESIGN FLOW 3,940 GPD, BASED ON 34 BEDROOMS @ 110 GPD/BEDROOM AND 200 GPD FOR THE OFFICE SPACE (WORST CASE). 4. WATER SERVICE(S) BASED ON THE SHEETS ON FILE AT THE HEALTH DEPARTMENT. ALL SERVICE LOCATION TO BE CONFIRMED BY THE TRURO/PROVINCETOWN WATER DEPARTMENT.
- D. ALL ONSITE UTILITIES TO BE CONFIRMED, BY DIGSAFE OR PRIVATE UTILITY MARK OUT. WATER LINES/MAINS BASED ON PUBLIC RECORDS AT THE TRURO/PTOWN WATER DEPARTMENT, AND SHALL BE CONFIRMED PRIOR TO ANY ON SITE CONSTRUCTION.
- E) LIMIT OF WORK LINE: THE LIMIT OF WORK LINE SHALL BE AS SHOWN ON PLAN VIEW. THE LIMIT OF WORK LINE SHALL CONSIST OF A STAKED ROW OF 9" DIAMETER STRAW WADDLES AND A 24" WIDE SILT (EROSION) CONTROL FABRIC FENCE. THE SILT (EROSION) CONTROL FENCE SHALL BE ON THE WETLAND SIDE OF THE STRAW WADDLES AND SHALL BE DUG IN A MINIMUM OF 6 INCHES BELOW THE GRADE. THE LIMIT OF WORK LINE SHALL BE INSTALLED PRIOR TO ANY WORK BEING STARTED ON THE PROJECT. THE LIMIT OF WORK LINE SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS HAVE BEEN VEGETATED AND STABILIZED.

- F. ALL SEWER LINES SHALL BE PLACED ON A BED OF 3/4" - 1 1/2" STONE.

CONSERVATION NOTES:

- 1) LIMIT OF WORK SHALL BE AS SHOWN. A ROW OF 9" ROUND STRAW WADDLES BACKED WITH 24" WIDE CLOTH SILT FENCE, STAKED IN PLACE. BOTTOM OF CLOTH FENCE TO BE DUG INTO THE GROUND 6". INSTALLED BEFORE ANY WORK AND START OF WORK INSPECTION.
- 2) ALL DISTURBED AREAS SHALL BE DRESSED WITH 12" CLEAN SAND FILL, NO STONES/ROCKS, AND PLANTED WITH AMERICAN BEACH GRASS. BEACH GRASS SHALL BE LIVE PLUGS AT 12" DIAGONAL MATRIX.
- 3) CONTRACTOR, BUILDER AND OWNER SHALL REVIEW THE ORDER OF CONDITIONS PRIOR TO AND DURING CONSTRUCTION.

SYSTEM DESIGN CALCULATIONS:

SAS DESIGN CALCULATIONS:

SEWAGE DESIGN FLOW
34 BEDROOMS @ 110 GPD = 3,740 GPD
1 STORAGE/OFFICE @ 15 GALLONS/1000 SF
670 SF (75 GPD/1000 SF) = 50.25 GPD
ASSUME WORST CASE 200 GPD

TOTAL LEACHING CAPACITY REQUIRED:
TOTAL = 3,940 GPD REQUIRED

LEACHING CAPACITY PROVIDED:
TWO (2) PERC-RITE DRIP IRRIGATION LEACHING FIELDS CAN LEACH:
V=10(SAS A: 2,947 SF + SAS B: 2,844 SF) X 0.74 GPD/SF = 4,285.3 GPD

SEPTIC TANK & PUMP CHAMBERS:

PROFILE A: COTTAGES 4 & 5, 4 BEDROOMS
SEPTIC TANK CAPACITY REQUIRED:
DAILY FLOW = 400 GPD @ 200% = 800 GAL. REQUIRED

SEPTIC TANK CAPACITY PROVIDED:
1500 GALLON PROVIDED

PUMP CHAMBER CAPACITY REQUIRED:
DAILY FLOW = 880 GPD @ 100% = 888 GAL. REQUIRED

PUMP CHAMBER CAPACITY PROVIDED: 1000 GALLONS PROVIDED

PROFILE A: COTTAGES 1- 5, 11 BEDROOMS
SEPTIC TANK CAPACITY REQUIRED:
DAILY FLOW = 2,210 GPD @ 200% = 4,420 GAL. REQUIRED

SEPTIC TANK CAPACITY PROVIDED:
2500 GALLON PROVIDED

PUMP CHAMBER CAPACITY REQUIRED:
DAILY FLOW = 1,210 GPD @ 100% = 1,210 GAL. REQUIRED

PUMP CHAMBER CAPACITY PROVIDED: 2,000 GALLONS PROVIDED

PROFILE A, B & C: ENTIRE SITE
FIRST SEPTIC TANK CAPACITY REQUIRED: 34 BEDROOMS + 200 GPD ("WORKSHOP")
DAILY FLOW = 3,940 GPD @ 200% = 7,880 GAL. REQUIRED

SEPTIC TANK CAPACITY PROVIDED: 8100 GALLON PROVIDED

SECOND SEPTIC TANK CAPACITY REQUIRED:
DAILY FLOW = 3,940 GPD @ 100% = 3,940 GAL. REQUIRED

SEPTIC TANK CAPACITY PROVIDED:
6,000 GALLON TWO COMPARTMENT SEPTIC TANK PROVIDED; 4,000 & 2,000 GALLONS RESPECTIVE

INNOVATIVE ALTERNATIVE TREATMENT TANKS:
DAILY FLOW = 3,940 GPD @ 100% = 3,940 GAL. REQUIRED

4,220 GALLON TREATMENT TANK PROVIDED WITH FAST 4.5 UNIT

4,220 GALLON TREATMENT TANK PROVIDED WITH NITRIFAST 4.5 UNIT

PUMP CHAMBER CAPACITY PROVIDED:
DAILY FLOW = 3,940 GPD @ 100% = 3,940 GAL. REQUIRED

PUMP CHAMBER CAPACITY PROVIDED: 6,000 GALLONS PROVIDED

INSTALL:

- ONE (1) 1500 GALLON POLY SEPTIC TANK; USE INFILTRATOR IM-1530 OR EQUAL
- ONE (1) 1000 GALLON POLY PUMP CHAMBER; USE INFILTRATOR IM-1080 OR EQUAL
- TWO (2) ALTERNATING 4/10 HP LIBERTY PUMPS; USE LE40 OR APPROVED EQUAL
- ONE (1) 2500 GALLON SEPTIC TANK H-20 RATED; USE SHOREY ST25ZLP OR EQUAL
- ONE (1) 2000 GALLON PUMP CHAMBER H-20 RATED; USE SHOREY P12ZP OR EQUAL
- TWO (2) ALTERNATING 1/2 HP LIBERTY PUMPS; USE LESO OR APPROVED EQUAL
- THREE (3) 4" DIAMETER SEWER MANHOLES H20 RATED; USE SHOREY SMH4EFT24 OR EQUAL
- ONE (1) 8000 GALLON SEPTIC TANK H20 RATED; STB1; USE SHOREY ST1080 OR EQUAL
- ONE (1) 6000 GALLON SEPTIC TANK, 2 COMPARTMENT, H-20 RATED, STB2; USE SHOREY STPC760 OR EQUAL
- TWO (2) ALTERNATING EFFLUENT PUMPS FOR FLOW EQUALIZATION; TO BE SIZED & SUPPLIED BY FAST
- ONE (1) 4220 GALLON TREATMENT TANK WITH FAST 4.5 UNIT WITH INTERNAL MOUNT; USE SHOREY FT4.5 TANK
- ONE (1) 4220 GALLON TREATMENT TANK WITH NITRIFAST 4.5 UNIT WITH INTERNAL MOUNT; USE SHOREY FT4.5 TANK
- ONE (1) 6000 GALLON PUMP CHAMBER H20 RATED; USE SHOREY ST760 OR EQUAL
- TWO (2) ALTERNATING EFFLUENT PUMPS TO BE SIZED & SUPPLIED BY OAKSON FOR PER-RITE DRIP DISPERSAL
- ONE (1) LEACH FIELD, 2,947 SF WITH PER-RITE DRIP DISPERSAL, INCLUDING PIPING, FLOATS & HYDRAULIC UNIT, SEE DETAILS SHEET 3
- ONE (1) LEACH FIELD, 2,845 SF WITH PER-RITE DRIP DISPERSAL, INCLUDING PIPING, FLOATS & HYDRAULIC UNIT, SEE DETAILS SHEET 3
- TWO (2) 40 MIL. HDPE LINERS; APPROX TOTAL LINER LENGTH 2995'. SEE SAS DETAILS, SHEET 3
- ONE (1) 8'x10' CONTROL ROOM SHED, WITH SINK, WATER AND ELECTRIC SERVICES, SEE CONTROL ROOM DETAIL, SHEET 3

SOIL TEST LOGS:

TEST HOLE 1: EL=57.24

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USD)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-11	A	Loamy Fine Sand	10YR2/2	NONE	FILL
11-46	Cf	Loamy Fine Sand	10YR5/4	NONE	FILL
46-60	E	Loamy Fine Sand	10YR5/2	NONE	PERC @ 5" (IN B LAYER)
60-82	B	Loamy Fine Sand	10YR5/6	NONE	FRIABLE, RATE: <2 MIN/IN
82-151	C1	Medium/Coarse Sand	10YR7/6	NONE	Loose

TEST HOLE 2: EL=55.04

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USD)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-26	Cf	FILL	10YR5/4	NONE	FILL
26-36	Ab	Loamy Fine Sand	10YR3/4	NONE	FILL
36-62	B	Loamy Fine Sand	10YR5/6	NONE	PERC @ 5" (IN B LAYER)
62-156	C1	Medium/Coarse Sand	10YR7/6	NONE	Loose

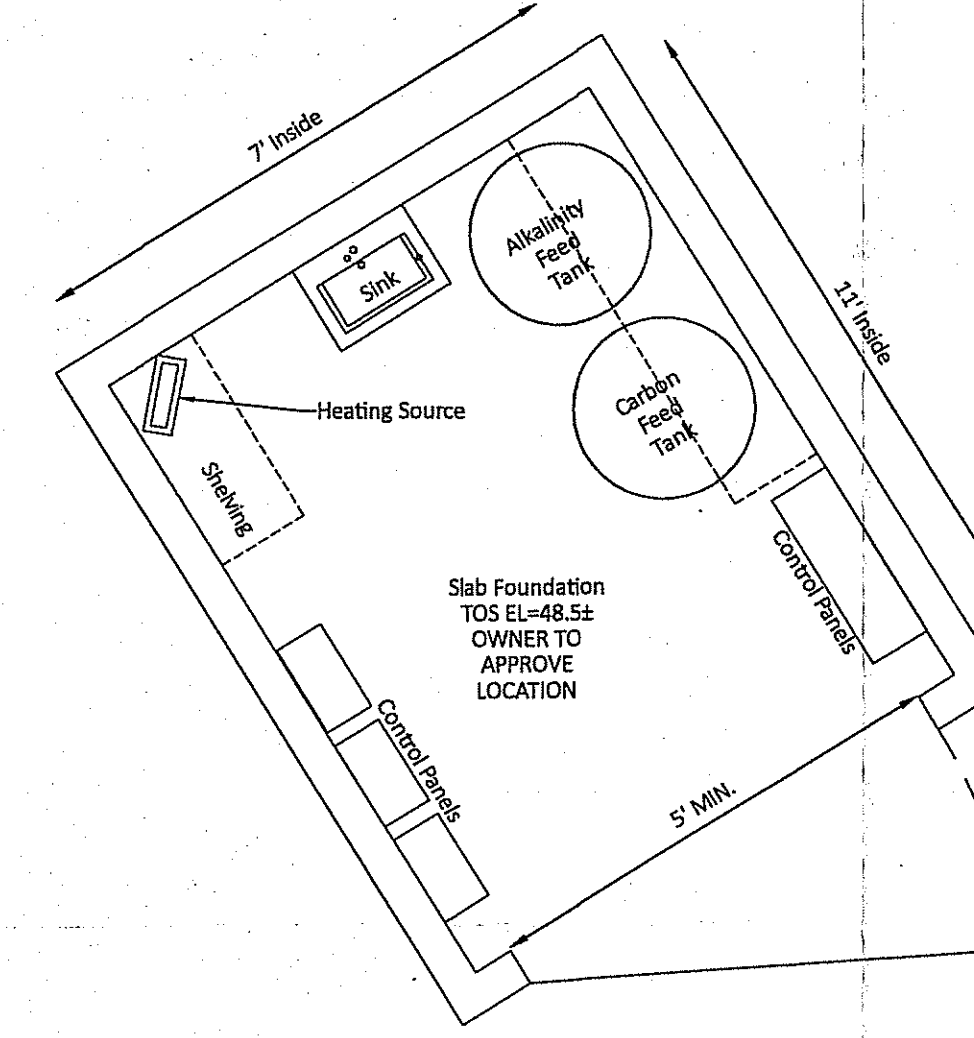
TEST HOLE 3: EL=47.04

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USD)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-9	A	FILL	10YR3/2	NONE	FILL
9-26	B	Loamy Fine Sand	10YR5/6	NONE	FILL
36-122	C1	Loamy Fine Sand	10YR7/6	NONE	FILL

TEST HOLE 4: EL=44.64

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USD)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-48	Cf	FILL	10YR3/2	NONE	FILL
48-66	A	Loamy Fine Sand	10YR3/2	NONE	FRIABLE
66-108	B	Loamy Fine Sand	10YR5/6	NONE	FRIABLE
108-156	C1	Medium/Coarse Sand	10YR7/6	NONE	Loose

DATE OF TESTING: 10/3/2019
PERCOLATION RATE: LESS THAN 2 MIN/INCH IN "B" & "C" LAYERS.
WITNESSED BY: MATHEW T. FARRELL, ET. J.M. O'REILLY & ASSOCIATES, INC.
ARCOZANA DAVIS, AGENT, TRURO HEALTH DEPARTMENT
NO WATER ENCOUNTERED
USE A LOADING RATE OF 0.74 GPD/SF FOR SIZING OF SOIL ABSORPTION SYSTEM.

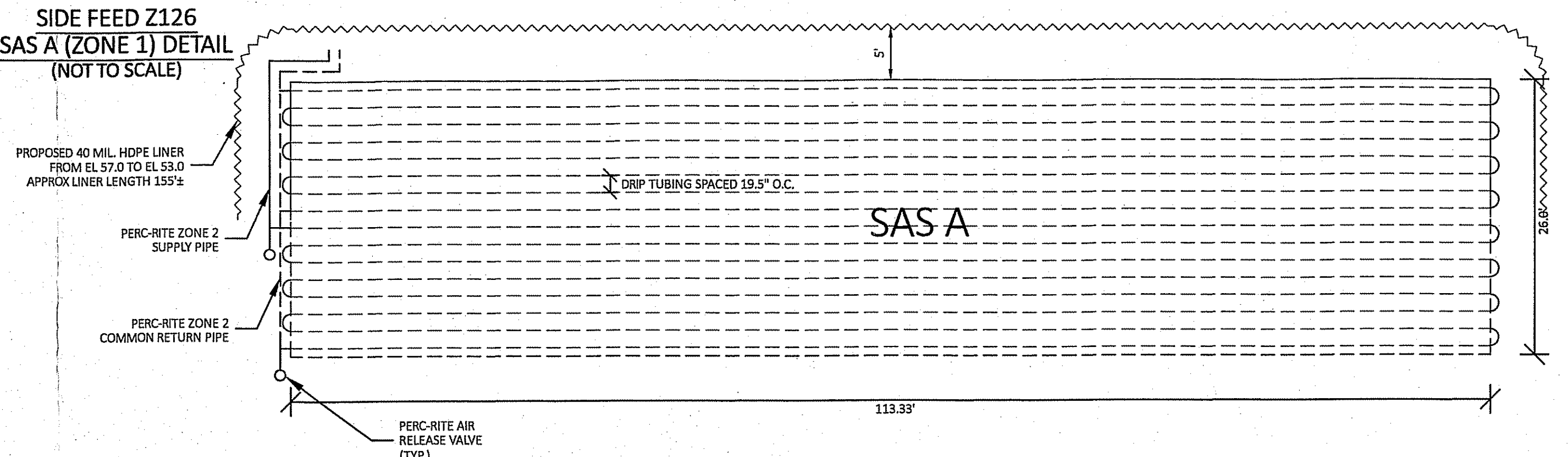
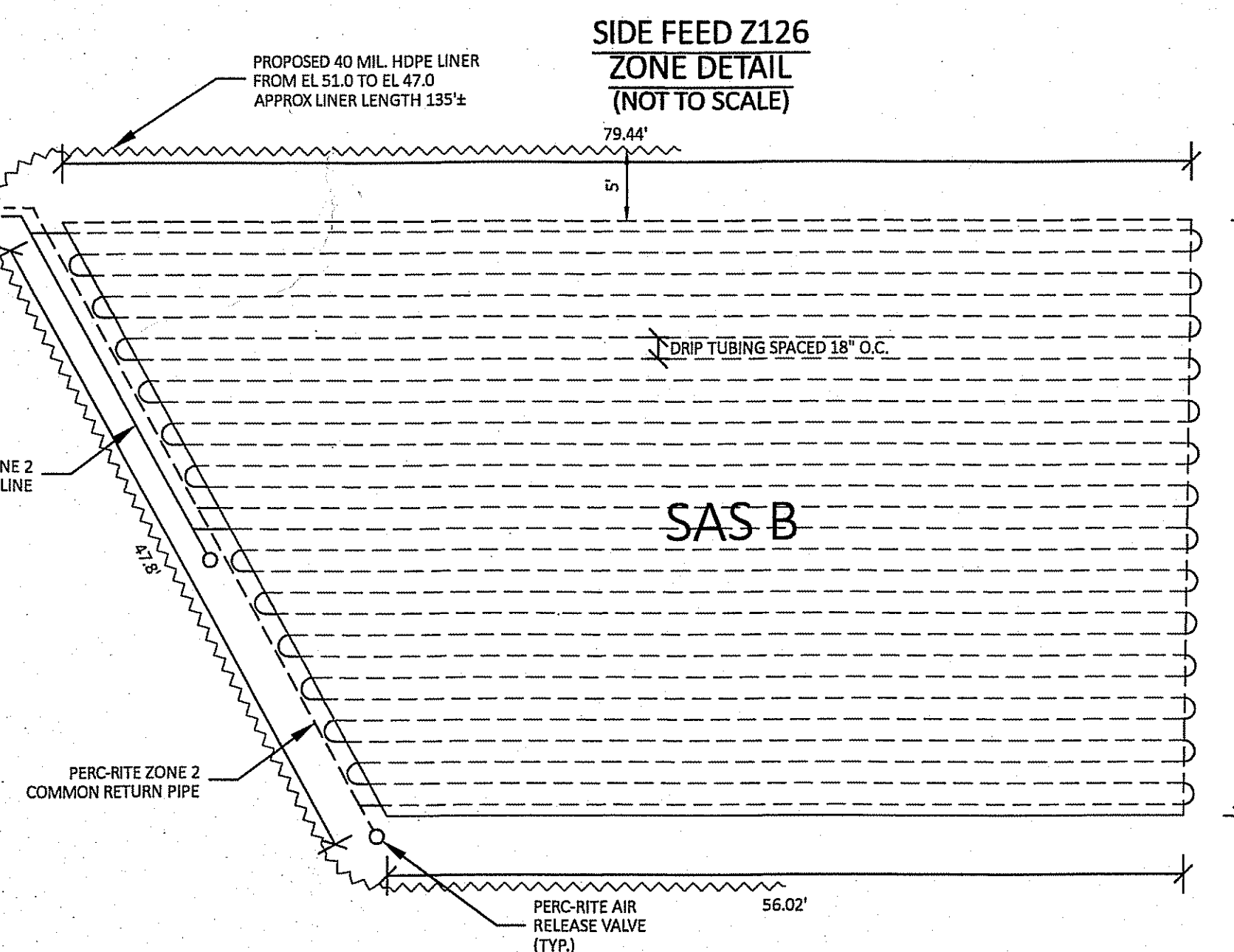


CONTROL ROOM LAYOUT

SCALE: 1" = 12.5'

VARIANCES REQUESTED

PROFILE A: 310 CMR 15.211 & TRURO, SECTION 6, ARTICLE 9, SETBACKS	
1. SEPTIC TANK (1500 POLY) NOT 100' FROM COASTAL BANK	84" VARIANCE
16' HELD	
2. PUMP CHAMBER (1000 POLY) NOT 100' FROM COASTAL BANK	84" VARIANCE
16' HELD	
3. SEPTIC TANK (2500 GAL.) NOT 100' FROM COASTAL BANK	90" VARIANCE
10' HELD	
4. PUMP CHAMBER (2000 GAL.) NOT 100' FROM COASTAL BANK	77" VARIANCE
23' HELD	
PROFILE A: 310 CMR 15.211 & TRURO, SECTION 6, ARTICLE 9 SETBACKS	
5. SEPTIC TANK (2500 GAL.) NOT WITHIN 3' OF FINISH GRADE	1.4' VARIANCE
4.4' HELD	
6. PUMP CHAMBER (2000 GAL.) NOT WITHIN 3' OF FINISH GRADE	2.0' VARIANCE
5.0' HELD	
PROFILE A, B & C: 310 CMR 15.211 & TRURO, SECTION 6, ARTICLE 9 SETBACKS	
7. SEPTIC TANK #1 (8000 GAL) NOT WITHIN 3' OF FINISH GRADE	1.1' VARIANCE
4.1' HELD	
8. SEPTIC TANK #2 (6000 GAL) NOT WITHIN 3' OF FINISH GRADE	1.0' VARIANCE
4.0' HELD	
10. TREATMENT TANK #1 (4224 GAL) NOT WITHIN 3' OF FINISH GRADE	0.8' VARIANCE
3.8' HELD	
11. TREATMENT TANK #2 (4224 GAL) NOT WITHIN 3' OF FINISH GRADE	3.3' VARIANCE
6.3' HELD	
12. PUMP CHAMBER (6000 GAL) NOT WITHIN 3' OF FINISH GRADE	4.9' VARIANCE
7.9' HELD	



SHEET 3 OF 3

SCALE: 1" = 30'

0 30 60 90

G:\A\A\A\Brown8669\Brown8669\pdr\percrite2.dwg, SHEET 2

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 09 2022
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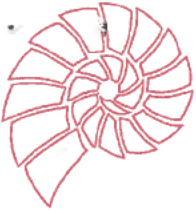
Topside Realty Trust
P.O. Box 386, North Truro 02652

Site & Sewage Disposal System Design
3 Knowles Heights Road, Truro, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1779
Brewster, MA 02631 (508)896-8602 Fax

DATE: 6/3/22 SCALE: As Noted BY: MTF CHECK: JMO JOB NUMBER: JMO-8669



J.M. O'REILLY & ASSOCIATES, INC.

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

June 1, 2022

JMO # 9249

Truro Board of Health
24 Town Hall Road
Truro, MA 02536

RE: **Board of Health Variance Request**
3 Fisher Path, Truro, MA
Map: 53 Parcel: 33

Dear Board Members,

On behalf of our client, Tim Dickey Design Build (for Kirk Bennett), J.M. O'REILLY & ASSOCIATES, INC. is filing a request for Variance from Truro Board of Health Regulations for the proposed sewage system upgrade at the above referenced property. The property is currently served by cesspools.

The owner has been ordered by the Board of Health to replace the existing cesspool system currently serving the dwelling. the proposal I to remove the cesspool and replace it with a Title 5 sewage system and an I/A Treatment system so as to provide enhanced nitrogen removal. The project does not include any improvements or expansions to the dwelling.

Variance: 310 CMR 15.211 (Setbacks)

1. Variance of 9' requested from the 10' separation requirement form the soils absorption system to the south property line (1' held)
2. Variance of 9' requested from the 10' separation requirement form the soils absorption system to the east property line (1' held)

No additions, changes in habitable space or additional bedrooms are proposed. A representative from our office will be present at the June 21, 2022 public hearing so as to further review the proposal and answer any questions the Board may have.

Very truly yours,
J.M. O'REILLY & ASSOCIATES, INC.

John M. O'Reilly, P.E., P.L.S.
Principal

Cc: Client

End: Variance Application Package

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 03 2022

RECEIVED BY:

Fee: \$75.00



APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 6/1/2022

Property Owner's Name: Robert Tobin, Margaret Tobin Kirkman et al c/o Kirk Bennett

Mailing Address [REDACTED]

Address of Property: 3 Fisher Path

Map and Parcel Number: Map # 53 Parcel # 33

Design Engineer/Sanitarian John M. O'Reilly, P.E., P.L.S.

Firm/Company Name: J.M. O'Reilly & Associates, Inc. Phone #: 508-896-6601

Address: P.O. Box 1773, 1573 Main Street, Brewster, MA 02631

Please check type of variance requested:

Title 5 Variance Request: Section 310 CMR 15.211 (Setbacks)

Board of Health Variance Request: Section/Article 310 CMR 15.211 (Setbacks)

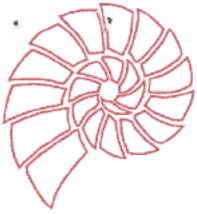
1. Variance of 9' requested from the 10' separation requirement from the soils absorption system to the south property line (1' held)
2. Variance of 9' requested from the 10' separation requirement from the soils absorption system to the east property line (1' held)

[Signature]
Signature (Representative)

6-1-22
Date

Signature (Property Owner)

HEALTH DEPARTMENT
TOWN OF TRURO
JUN 03 2022
RECEIVED BY:



J.M. O'REILLY & ASSOCIATES, INC.

PROFESSIONAL ENGINEERING, LAND SURVEYING & ENVIRONMENTAL SERVICES

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

TO: Abutters

FROM: J. M. O'REILLY & ASSOCIATES, INC.
1573 MAIN STREET
BREWSTER, MA 02631

RE: 3 Fisher Path, Truro, MA
Board of Health Variance Request

DATE: June 1, 2022

HEALTH DEPARTMENT
TOWN OF TRURO
JUN 03 2022
RECEIVED BY:

On behalf of our client, Tim Dickey Design Build (for Kirk Bennett), J. M. O'REILLY & ASSOCIATES, INC. is requesting the Truro Board of Health to review and grant the following Variances from the Truro Board of Health regulations for the proposed sewage system upgrade at the above referenced property.

The project involves the replacement of an old cesspool with a new sewage system with I/A Treatment to serve the existing dwelling. The project does not include any improvements to the dwelling other than the replacement of a failing cesspool system.

The following are the variances being requested from the Truro Board of Health Regulations:

Truro Board of Health Regulations, 310 CMR 15.403

Variance: 310 CMR 15.211 (Setbacks)

1. Variance of 9' requested from the 10' separation requirement from the soils absorption system to the south property line (1' held)
2. Variance of 9' requested from the 10' separation requirement from the soils absorption system to the east property line (1' held)

A meeting has been scheduled with the Board of Health at Truro Town Hall on June 21, 2022 at 4:30 pm to discuss the proposal in greater detail. If you plan to attend, please contact the Town or visit the Truro Health Department webpage for further details.

Thank You



TRURO ASSESSORS OFFICE
PO Box 2012 Truro, MA 02666
Telephone: (508) 214-0921
Fax: (508) 349-5506

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 03 2022
RECEIVED BY:

Date: May 24, 2022

To: J.M. O'Reilly & Associates, Inc., Agent for Tobin C/O Bennett

From: Assessors Department

Certified Abutters List: 3 Fisher Path (Map 53, Parcel 33)

Board of Health

Attached is a combined list of abutters for the property located at 3 Fisher Path.

The current owners are Robert Tobin, Margaret Tobin Kirkland et al.

The names and addresses of the abutters are as of May 20, 2022 according to the most recent documents received from the Barnstable County Registry of Deeds.

Certified by:

Olga Farrell
Assessing Clerk

3 Fisher Path
 Map 53, Parcel 33
 Board of Health

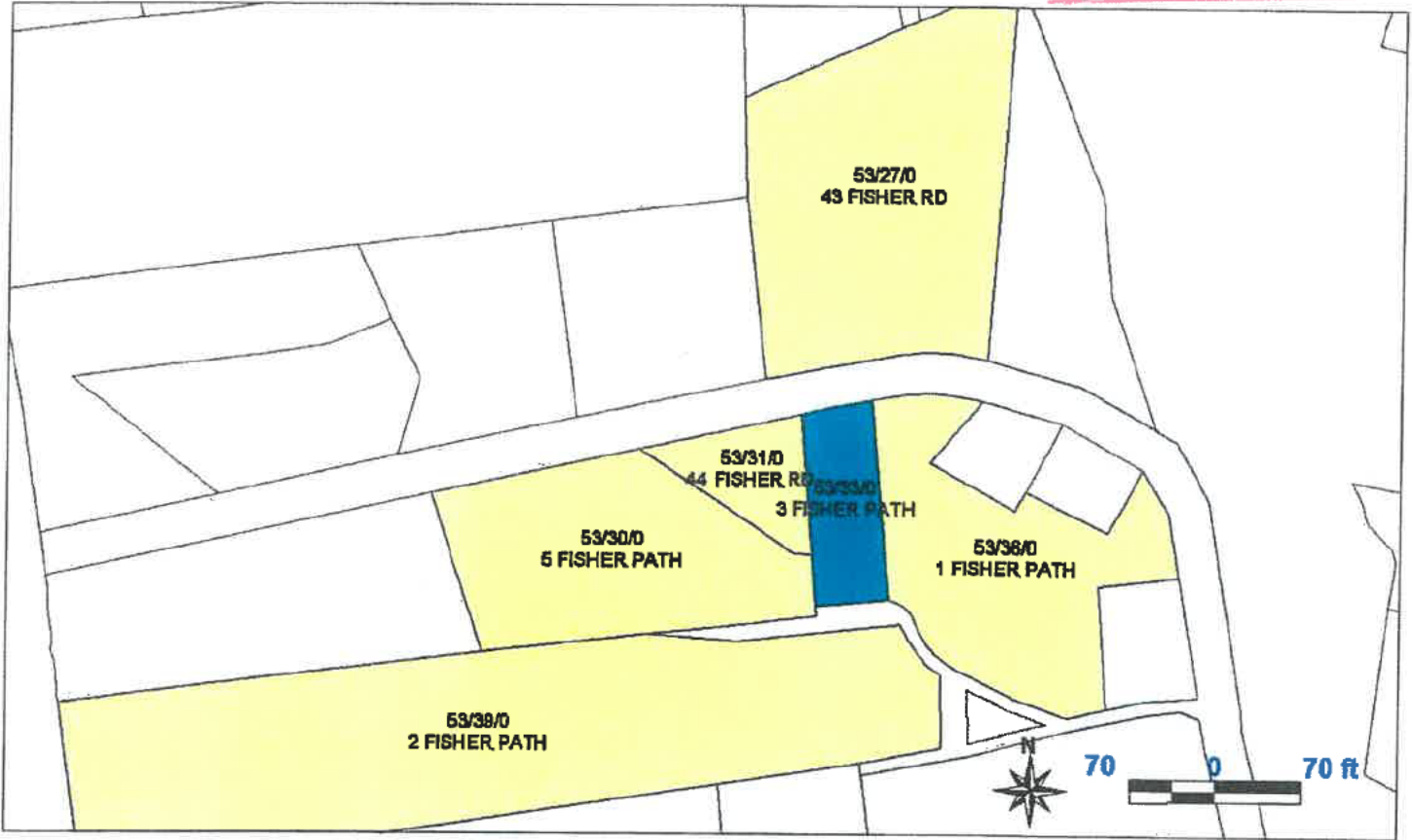
TOWN OF TRURO, MA
 BOARD OF ASSESSORS
 P.O. BOX 2012, TRURO MA 02666

HEALTH DEPARTMENT
 TOWN OF TRURO

JUN 03 2022

RECEIVED BY:

Custom Abutters List



Key	Parcel ID	Owner	Location	Mailing Street	Mailing City	ST	ZipCd/Country
3174	53-27-0-R	REISER LINDA F	43 FISHER RD	128 LINDEN ST	EVERETT	MA	02149
3177	53-30-0-R	PARCELL LAURA	5 FISHER PATH	1400 EAST WEST HWY, APT 1227	SILVER SPRING	MD	20901
3178	53-31-0-R	ATKINSON LINDA & ATKINSON ANTHONY A/K/A ARNOLD	44 FISHER RD	2321 MCKINLEY AVE	BENSALEM	PA	19020
3182	53-36-0-R	HADLEY ERNEST C LIVING TRST & MULLINS ANNE L LIV TRST AGRMNT	1 FISHER PATH	PO BOX 441	TRURO	MA	02666
3185	53-39-0-R	RUDYKOFF NATHANIEL T & STILMAN NAEMI	2 FISHER PATH	220 WEST 148TH STREET APT 4F	NEW YORK	NY	10039

Handwritten signature
 5/24/2022

53-27-0-R

REISER LINDA F
128 LINDEN ST
EVERETT, MA 02149

53-30-0-R

PARCELL LAURA
1400 EAST WEST HWY, APT 1227
SILVER SPRING, MD 20901

53-31-0-R

ATKINSON LINDA &
ATKINSON ANTHONY A/K/A ARNOLD
2321 MCKINLEY AVE
BENSALEM, PA 19020

53-36-0-R

HADLEY ERNEST C LIVING TRST &
MULLINS ANNE L LIV TRST AGRMNT
PO BOX 441
TRURO, MA 02666

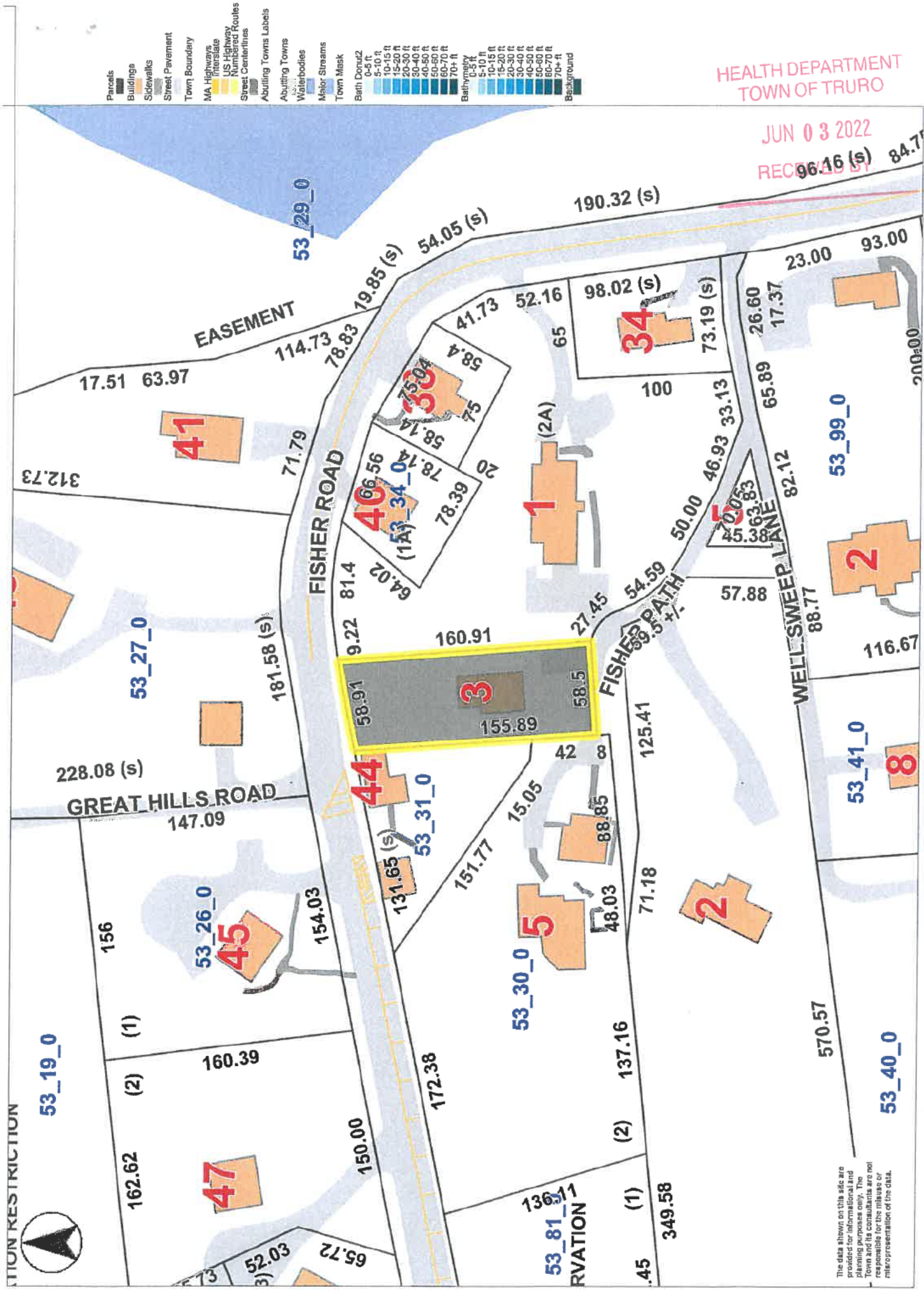
53-39-0-R

RUDYKOFF NATHANIEL T &
STILMAN NAEMI
220 WEST 148TH STREET
APT 4F
NEW YORK, NY 10039

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 03 2022

RECEIVED BY:



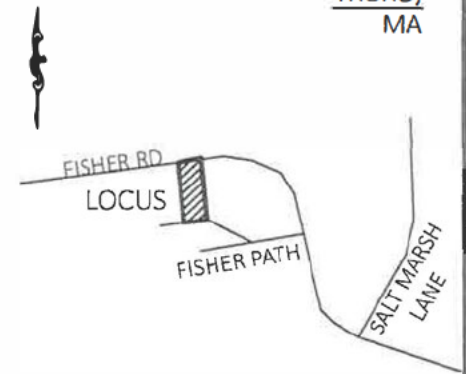
VARIANCES REQUESTED

LOCAL UPGRADE APPROVALS: 310 CMR 15.403

Variances: 310 CMR 15.211 (Setbacks)

- 1.) Variance of 9' requested from the 10' separation requirement from the soil absorption system to the south property line. (1' Held)
- 2.) Variance of 9' requested from the 10' separation requirement from the soil absorption system to the east property line. (1' Held)

TRURO, MA



MASS. CORD.

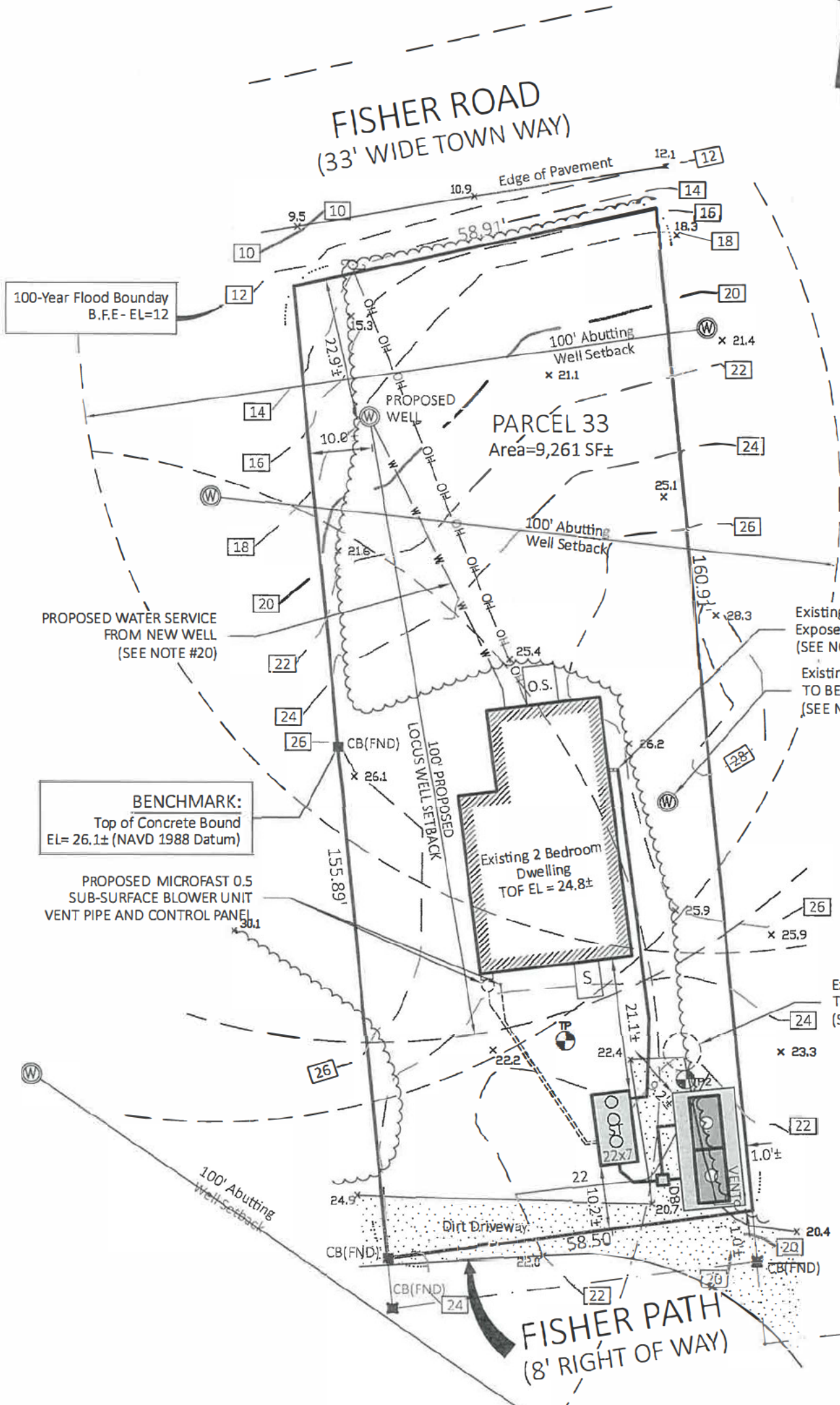
NOT TO SCALE

PLAN BOOK 426
DEED BOOK 5417
ASSESSORS' MAP 53

PAGE 50
PAGE 135
PARCEL 33

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- WATER SERVICE LINE
- OVERHEAD UTILITY SERVICE
- TEST HOLE / BORING
- SEPTIC TANK
- DISTRIBUTION BOX
- SOIL ABSORPTION SYSTEM
- OUTDOOR SHOWER
- STEP
- UTILITY POLE
- WELL
- CONCRETE BOUND, FOUND
- LIMIT OF WORK
- EDGE OF CLEARING



HEALTH DEPARTMENT
TOWN OF TRURO

JUN 03 2022
RECEIVED BY:



SCALE 1"=20'

TIM DICKEY DESIGN BUILD LLC

P.O. BOX 903, TRURO, MA 02666

SITE & SEWAGE DISPOSAL SYSTEM DESIGN
3 FISHER PATH, TRURO, MA



J.M. O'REILLY & ASSOCIATES, INC.

Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773

(508)698-8801 Office Brewster, MA 02831 (508)698-8802 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
5/11/22	AS NOTED	MJW	JMO	JMO-9249

GENERAL NOTES:

- A.) NEITHER DRIVEWAYS NOR PARKING AREAS ARE ALLOWED OVER SEPTIC SYSTEM UNLESS H-20 COMPONENTS ARE USED.
- B.) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONSTRUCTED AS SHOWN. ANY CHANGES SHALL BE APPROVED IN WRITING.
- C.) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF WORK.

CONSTRUCTION NOTES:

- 1.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5, AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.
- 2.) SEPTIC TANK(S), GREASE TRAP(S), DOSING CHAMBER(S) AND DISTRIBUTION BOX(S) SHALL BE SET ON A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED, OR ON A 6 INCH CRUSHED STONE BASE.
- 3.) SEPTIC TANK(S) SHALL MEET ASTM STANDARD C1127-93 AND SHALL HAVE AT LEAST THREE 20" DIAMETER MANHOLES. THE MINIMUM DEPTH FROM THE BOTTOM OF THE SEPTIC TANK TO THE FLOW LINE SHALL BE 48".
- 4.) SCHEDULE 40 PVC INLET AND OUTLET TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK AND SHALL BE INSTALLED ON THE CENTERLINE OF THE TANK DIRECTLY UNDER THE CLEANOUT MANHOLE.
- 5.) RAISE COVERS OF THE SEPTIC TANK AND DISTRIBUTION BOX WITH PRECAST CONCRETE WATER TIGHT RISERS OVER INLET AND OUTLET TEES TO WITHIN 6" OF FINISH GRADE, OR AS APPROVED BY THE LOCAL BOARD OF HEALTH AGENT.
- 6.) PIPING SHALL CONSIST OF 4" SCHEDULE 40 PVC OR EQUIVALENT. PIPE SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 1%.
- 7.) DISTRIBUTION LINES FOR SOIL ABSORPTION SYSTEM (AS REQUIRED) SHALL BE 4" DIAMETER SCHEDULE 40 PVC LAID AT 0.005 F/FT. LINE SHALL BE CAPPED AT END OR AS NOTED.
- 8.) OUTLET PIPES FROM DISTRIBUTION BOX SHALL REMAIN LEVEL FOR AT LEAST 2' BEFORE PITCHING TO SOIL ABSORPTION SYSTEM. WATER TEST DISTRIBUTION BOX TO ASSURE EVEN DISTRIBUTION.
- 9.) DISTRIBUTION BOX SHALL HAVE A MINIMUM SUMP OF 6" MEASURED BELOW THE OUTLET INVERT.
- 10.) BASE AGGREGATE FOR THE LEACHING FACILITY SHALL CONSIST OF 3/4" TO 1-1/2" DOUBLE WASHED STONE FREE OF IRON, FINES AND DUST AND SHALL BE INSTALLED BELOW THE CROWN OF THE DISTRIBUTION LINE TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM. BASE AGGREGATE SHALL BE COVERED WITH A 2" LAYER OF 1/8" TO 1/2" DOUBLE WASHED STONE FREE OF IRON, FINES AND DUST.
- 11.) VENT SOIL ABSORPTION SYSTEM WHEN DISTRIBUTION LINES EXCEED 50 FEET; WHEN LOCATED EITHER IN WHOLE OR IN PART UNDER DRIVEWAYS, PARKING AREAS, TURNING AREAS OR OTHER IMPERVIOUS MATERIAL; OR WHEN PRESSURE DOSED.
- 12.) SOIL ABSORPTION SYSTEM SHALL BE COVERED WITH A MINIMUM OF 9" OF CLEAN MEDIUM SAND [EXCLUDING TOPSOIL].
- 13.) FINISH GRADE SHALL BE A MAXIMUM OF 36" OVER THE TOP OF ALL SYSTEM COMPONENTS, INCLUDING THE SEPTIC TANK, DISTRIBUTION BOX, DOSING CHAMBER AND SOIL ABSORPTION SYSTEM. SEPTIC TANKS SHALL HAVE A MINIMUM COVER OF 9".
- 14.) FROM THE DATE OF INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE SYSTEM.
- 15.) THE BOARD OF HEALTH SHALL REQUIRE INSPECTION OF ALL CONSTRUCTION BY AN AGENT OF THE BOARD OF HEALTH (OR THE DESIGNER IF THIS SYSTEM REQUIRES A VARIANCE) AND MAY REQUIRE SUCH PERSON TO CERTIFY IN WRITING THAT ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE TERMS OF THE PERMIT AND APPROVED PLANS. 48 HOURS ADVANCE NOTICE IS REQUESTED.

- 16.) INSTALLER SHALL VERIFY INVERT ELEVATIONS PRIOR TO INSTALLATION OF ANY SEPTIC SYSTEM COMPONENTS.
- 17.) EXISTING WASTELINE(S): INSTALLER TO CONFIRM WASTELINE(S) BY WATER TESTING WITHIN THE DWELLING PRIOR TO SETTING ANY SYSTEM COMPONENTS.
- 18.) INSTALLER TO CONFIRM LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO START OF CONSTRUCTION.
- 19.) EXISTING CESSPOOLS AND SEPTIC TANK SHALL BE LOCATED AND EITHER ABANDONED AND/OR REMOVED. IF ABANDONED, THE SEPTIC TANK AND CESSPOOLS ARE TO BE PUMPED DRY, AND BACKFILLED WITH CLEAN TITLE 5 SAND. IF REMOVED, SEPTIC TANK AND CESSPOOLS ARE TO BE PUMPED DRY AND REMOVED FROM THE SITE, ALONG WITH ALL CONTAMINATED SOILS WITHIN 5' OF THE PROPOSED SOIL ABSORPTION SYSTEM AND REPLACE WITH CLEAN TITLE 5 SAND. ALL DISTURBED AREAS ARE TO BE COMPACTED TO MINIMIZE SETTLING.
- 20.) EXISTING LOCUS WELL AND WATER SERVICE LINES ARE TO BE LOCATED AND REROUTED AS SHOWN ON THE PLAN VIEW.

SOIL TEST LOGS:

TEST HOLE 1: EL = 23.0±

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-45	FILL				
45-52	A	FINE LOAMY SAND	10YR 3/2	NONE	
52-93	B	FINE LOAMY SAND	10YR 5/8	NONE	
93-160	C1	MEDIUM-COARSE SAND	10YR 6/6	NONE	NO GW ENCOUNTERED

TEST HOLE 2: EL = 21.8±

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-11	FILL				
11-20	A	FINE LOAMY SAND	10YR 3/2	NONE	
20-54	B	FINE LOAMY SAND	10YR 5/8	NONE	PERC @ 53", RATE < 2 MIN/IN
54-132	C1	MEDIUM-COARSE SAND	10YR 6/6	NONE	NO GW ENCOUNTERED

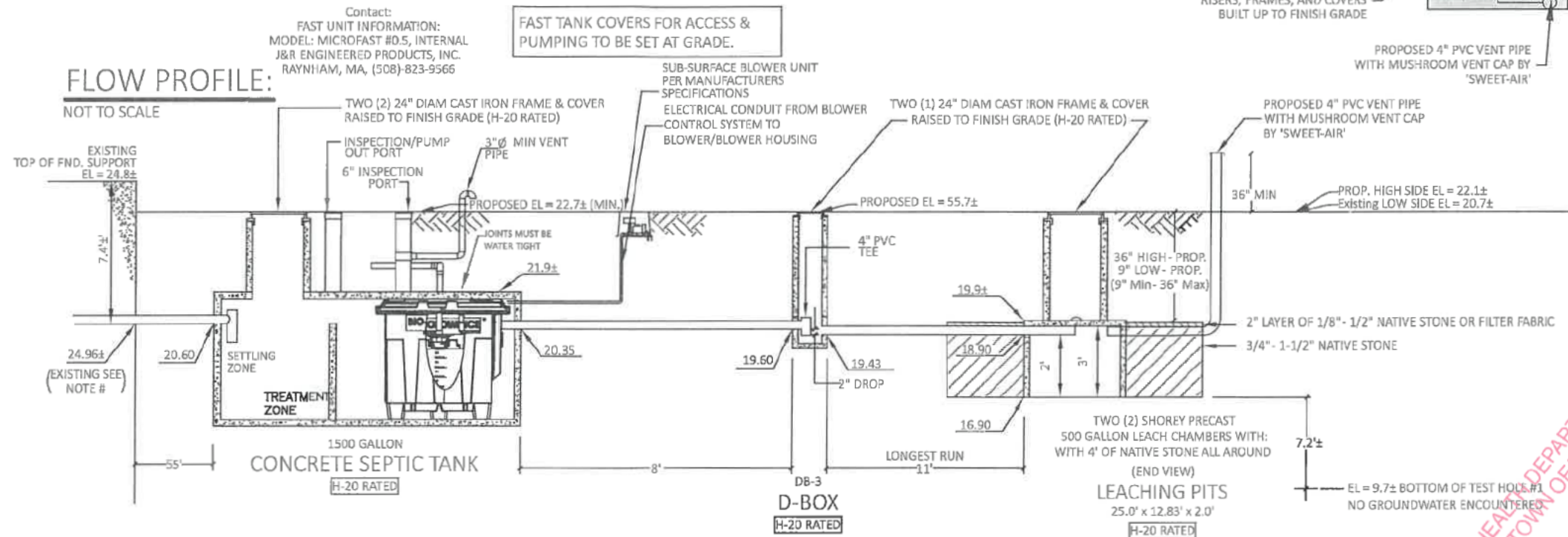
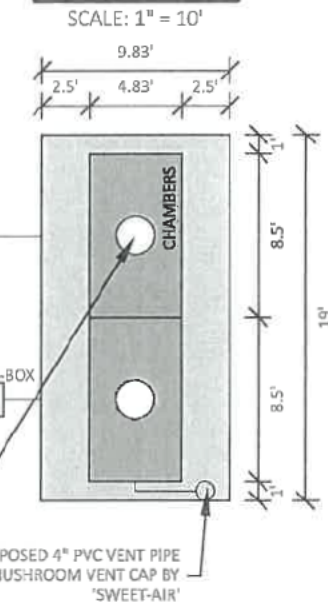
PERCOLATION RATE: LESS THAN 2 MIN/INCH IN "B" & "C1" LAYERS.
 WITNESSED BY: MATTHEW J. WROBEL E.I.T., J.M. O'REILLY & ASSOCIATES, INC.
 AROZANA DAVIS, ASSISTANT HEALTH AGENT, TRURO HEALTH DEPARTMENT
 NO WATER ENCOUNTERED
 USE A LOADING RATE OF 0.74 GPD/SF FOR SIZING OF SOIL ABSORPTION SYSTEM.
 DATE OF TESTING: 4/29/2022

SYSTEM DESIGN CALCULATIONS:

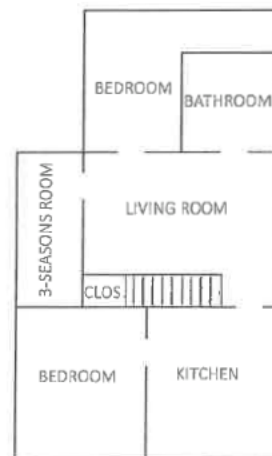
SEWAGE DESIGN FLOW:
 2 BEDROOM DWELLING @ 110 GPD = 220 GPD
 LEACHING CAPACITY REQUIRED:
 2 BEDROOMS (MAX.) @ 110 GPD = 220 GPD REQUIRED
 SEPTIC TANK CAPACITY REQUIRED:
 DAILY FLOW = 220 GPD @ 200% = 440 GAL. REQUIRED
 SEPTIC TANK CAPACITY PROVIDED:
 1500 GAL. SEPTIC TANK (MIN. ALLOWED)
 LEACHING CAPACITY PROVIDED:
 ONE (1) 19.0' X 9.83' X 2.0' LEACHING CHAMBER CAN LEACH:
 $V_t = [(19.0 \times 9.83) + (19.0 \times 2.0)2 + (9.83 \times 2.0)2] \times 0.74 \text{ GPD/SF} = 223.55 \text{ GPD}$
 224 GPD > 220 GPD REQUIRED
 NOTE: A GARBAGE DISPOSAL IS NOT PERMITTED WITH THIS DESIGN.

INSTALL:
 ONE (1) - 1500 GALLON CONCRETE SEPTIC TANK W/ MICROFAST 0.5 TREATMENT UNIT (H-20 RATED)
 USE ACME SHOREY PRECAST CONCRETE FTIM152MLP OR ENG APPROV. EQUIV.
 ONE (1) - MICROFAST 0.5 TREATMENT UNIT: BLOWER, CONTROL PANEL, AND ALARM
 ONE (1) - 3 OUTLET DISTRIBUTION BOX (H-20 RATED)
 TWO (2) - 500 GALLON LEACH CHAMBERS WITH STONE PER SAS DETAIL (H-20 RATED)
 ONE (1) - 4" PVC VENT PIPE WITH MUSHROOM VENT CAP BY 'SWEET-AIR'
 FOUR (4) - 24" DIAM. C.I. : RISERS, FRAMES, AND COVERS (H-20 RATED)

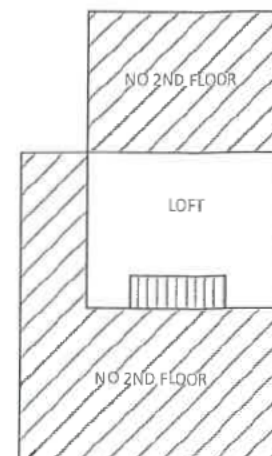
SAS DETAIL



FIRST FLOOR PLAN



SECOND FLOOR PLAN



SHEET 2 OF 2

HEALTH DEPARTMENT
 TOWN OF TRURO
 JUN 03 2022
 RECEIVED BY:

TIM DICKEY DESIGN BUILD LLC
 P.O. BOX 903, TRURO, MA 02666

SEWAGE DISPOSAL SYSTEM DESIGN & NOTES
 3 FISHER PATH, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
 Professional Engineering & Land Surveying Services

1578 Main Street - Route 6A
 P.O. Box 1773
 (508)896-6601 Office Brewster, MA 02631 (508)896-6602 Fax

DATE: 5/11/2022 SCALE: As Noted BY: MJW CHECK: JMO JOB NUMBER: JMO-9232





**Town of Truro
Board of Health**

24 Town Hall Road, P.O. Box 2030, Truro, MA 02666
Tel: 508-349-7004, Extension: 131 Fax: 508-349-5508
Email: ebeebe@truro-ma.gov or adavis@truro-ma.gov

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 15 2022
RECEIVED BY: _____

APPLICATION FOR FOOD SERVICE – COMMON VICTUALER

New Renewal

Section 1 – License Type

Type of License: Food Service Common Victualer

Type of Food Service Establishment:

- Food Service (restaurant or take out) Catering
 Retail Food (commercially prepared foods) Manufacturer of Ice Cream/Frozen Dessert
 Residential Kitchen Bakery
 Bed & Breakfast w/Continental Breakfast

Section 2 – Business/Owner/Manger Information

Federal Employers Identification Number (FEIN/SS) _____

Business Name: Town of Truro

Owner Name: Damion Clements Email Address: dclements@truro-ma.gov

Mailing Address: 24 Town Hall Road, Truro, MA 02666

Phone No: (508)487-1632

Person Directly Responsible for Daily Operations: (Owner, Person In Charge, Supervisor, Manager)

Name: Damion Clements Email Address: dclements@truro-ma.gov

Mailing Address: [REDACTED]

Phone No: (508)487-1632 24 Hour Emergency: _____

Section 3 – Business Operation Details

Number of Seats: Inside: NA Outside: NA Number of Employees: _____

Length of Permit: Annual Seasonal Operation

Hours of Operation: 9:00 am To 5:00 pm

Days Closed Excluding Holidays: _____

If Seasonal: Approximate Dates of Operation: 06/03/22 To 09/06/22



Town of Truro
Board of Health

24 Town Hall Road, P.O. Box 2030, Truro, MA 02666
Tel: 508-349-7004, Extension: 131 Fax: 508-349-5508
Email: ebeebe@truro-ma.gov or adavis@truro-ma.gov

HEALTH DEPARTMENT
TOWN OF TRURO

JUN 15 2022

RECEIVED BY:

APPLICATION FOR FOOD SERVICE – COMMON VICTUALER

x New Renewal

Section 1 – License Type

Type of License: x Food Service Common Victualer

Type of Food Service Establishment:

- | | |
|--|---|
| <input type="checkbox"/> Food Service (restaurant or take out) | <input type="checkbox"/> Catering |
| x Retail Food (commercially prepared foods) | <input type="checkbox"/> Manufacturer of Ice Cream/Frozen Dessert |
| <input type="checkbox"/> Residential Kitchen | <input type="checkbox"/> Bakery |
| <input type="checkbox"/> Bed & Breakfast w/Continental Breakfast | |

Section 2 – Business/Owner/Manger Information

Federal Employers Identification Number (FEIN/SS) _____

Business Name: _____ Town of Truro _____

Owner Name: ___Damion Clements___ Email Address: [_dclements@truro-ma.gov](mailto:dclements@truro-ma.gov)

Mailing Address: _____ 24 Town Hall Road, Truro, MA 02666

Phone No: (508)487-1632 _____

Person Directly Responsible for Daily Operations: (Owner, Person In Charge, Supervisor, Manager)

Name: ___Damion Clements___ Email Address: [_dclements@truro-ma.gov](mailto:dclements@truro-ma.gov) _____

Mailing Address: _____ P.O. Box 2030, Truro, MA 02666 _____

Phone No: (508)487-1632 _____ 24 Hour Emergency: _____

Section 3 – Business Operation Details

Number of Seats: Inside: NA Outside: NA Number of Employees: _____

Length of Permit: Annual x Seasonal Operation

Hours of Operation: ___9:00 am___ To ___5:00 pm___

Days Closed Excluding Holidays: _____

If Seasonal: Approximate Dates of Operation: 06/03/22 To 09/06/22

Certified Food Manager(s) (attach copy): (at least 1 full-time equivalent PER SHIFT required)

Not required- per Health Agent

Allergen Awareness Certification (attach copy):

Not required- per Health Agent

Has your menu changed from last year? Not required- per Health Agent

Section 4 - Attestation

Attestation

I, the undersigned, attest to the accuracy of the information provided in this application and further agree to allow the regulatory authority access to the food service establishment as specified under § 8-402.11. I affirm that the food establishment operation will comply with 105 CMR 590.000, Truro Board of Health Regulation Section X, Food Service Regulations and all other applicable laws. Pursuant to MGL Ch. 62C § 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid state and local taxes required by law.

Signature of Applicant: Damion Clementa **Date:** 6/14/22

Application Checklist:

- Food Service Permit Application**
- Smoke Detector/Fire Protection Certification**
- Workers Compensation Affidavit/Certificate of Insurance**
- Copy of Inspection of Kitchen Equipment: Commercial Hood and Ventilation System Report**
- Copy of Service report of mechanical washing equipment (Dishwasher)**
- Copy of ServSafe Certification and Allergy Awareness**
- Copy of Choke Saver (for food service establishment w/seating capacity of 25 or more)**

FOR HEALTH DEPARTMENT USE ONLY	
Comments: _____	
Review by _____	Date _____

Lynne Budnick

From: Emily Beebe
Sent: Wednesday, June 15, 2022 8:09 AM
To: Lynne Budnick
Subject: FW: food service permit
Attachments: Application for Food Service-CV Permit -Town of Truro Ice Sales 2022.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

From: Damion Clements <DClements@truro-ma.gov>
Sent: Tuesday, June 14, 2022 5:53 PM
To: Emily Beebe <EBeeBe@truro-ma.gov>
Subject: RE: food service permit

Emily,
Attached is the Food Service Permit Application for the potential sale of ice.

I will follow up with the other application.

Damion

From: Emily Beebe <EBeeBe@truro-ma.gov>
Sent: Tuesday, June 14, 2022 5:09 PM
To: Damion Clements <DClements@truro-ma.gov>
Subject: food service permit

Hi Damion,
Attached is our food service permit form for the ICE application.(it's the one labeled Town of Truro
I have completed most of it, but there are some places in the highlighted sections for you to complete if you would.
I will place it on the agenda for the 6/21 BoH meeting.

I have also attached a blank form for the comm center kitchen which still needs its 2022 permit!

Thanks very much,
Em

Emily Beebe, RS
Truro Health & Conservation Agent
24 Town Hall Road
Truro, MA 02666