



Truro Board of Health

Tuesday November 19, 2024 at 4:30 PM

Truro Board of Health Notice of Regular (Hybrid) Meeting

Meeting will open at 4:30 PM in the Select Board Chambers at Truro Town Hall on the 2nd floor.
The Truro Town Hall is located at 24 Town Hall Road

This will be a hybrid meeting (in-person and remote access). Citizens in Truro can view the meeting on Channel 8 and on the homepage of the Town of Truro website on the "Truro TV Channel 8" button found under "Helpful Links". Once the meeting has started, click on the green "Watch" button in the upper right of the page. **To join the meeting by phone or to provide comment during the meeting, please call-in toll free at 1-305-224-1968 and enter the following Meeting ID when prompted: Meeting ID: 884 7580 5887** To join this Zoom meeting from your computer, tablet or smartphone enter <https://us02web.zoom.us/j/88475805887> Please note that there may be a slight delay 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; citizens may also provide public comment for this meeting by emailing the Health Agent at abeebe@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

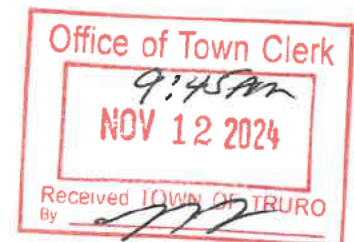
1. **Change of Manager:** Sandbars Inn, 570 Shore Road – Jonah Cutter
2. **Variance Request/Local Upgrade Approval:** 8 Highland Rd, Katharine Reed
3. **Appeal of Health Agents Decision:** 5 Corn Hill Landing, Sarah Lamb & Edward Black (*continued from 10/15/2024*)
4. **Water Resources Report**

III. MINUTES

IV. REPORTS

Report of the Chair

Health Agent's Report:





TOWN OF TRURO

Health Department
P.O. Box 2030, Truro, MA 02666

PH: 508-349-7004, Ext. 131 Fax: 508-349-5508
Email: lbudnick@truro-ma.gov; nrichey@truro-ma.gov

HEALTH DEPARTMENT
TOWN OF TRURO

SEP 24 2024

RECEIVED BY

PAID

APPLICATION TO NAME A MANAGER

This application is used for a Change of Manager, Add Co-Managers or to Name a

Section 1 – Business Information

Date: 09/24/24

Print Name of Applicant: Christopher Schultz (on behalf of Vacasa, Inc.)

Business Name or DBA to be managed: Sandbars Inn

Number of Units: 16

Street Address of Business: 570 Shore Road

Business Email: [REDACTED]

Mailing Address of Business: (☐ Check if New Address)

Section 2 – Manager Information

Name of Previous Manager: Todd Souza

On-Site Manager Unit #: 8

Name of New Onsite Manager: Jonah Cutter

On-Site Manager Unit #: 8

Name of Property Management (10 Units or less):

Mailing Address of New Manager and/or Property Management Company: 570 Shore Road, N. Truro, MA 02652

Phone (24 hours/day): [REDACTED]

Email: [REDACTED]

Name of Co-Managers:

Unit #

Phone (24hrs/day):

Christopher Schultz

Unit # N/A

Phone (24hrs/day): [REDACTED]

Unit #

Phone (24hrs/day):

I have read & understand the Board of Health Manager Regulation, Section III, Article 4. Signature of New Manager, Co-Managers or Contact Person for Property Management is required.

SIGNATURE

Jonah Cutter

PRINT NAME

DATE

9/22/24

SIGNATURE

Christopher Schultz

PRINT NAME

DATE

9/22/24

SIGNATURE

PRINT NAME

DATE

Section 3 - **Office Use Only**

Team Inspection
(If over 3yrs since last one)

Scheduled



Date

10/22/24

Fee
\$45.00

Paid



Board of Health Hearing



\$75.00



Team Inspection Report

October 22, 2024

Sandbars Inn - 570 Shore Rd

Health Department -

All units are set up in a similar fashion, with one large room with two beds and a small kitchenette area with a full oven.

Units have hot water, surfaces appear easily cleanable, and have wall heating/cooling units. Appear to be well maintained.

Units have sliding doors that appear in good condition. Very few other windows (mainly in the bathrooms) and screens appear to be in good condition.

Doors swing shut and lock.

Manager present and lives on-site.

Team Insp. Tues. 10/22 / 12:30 pm

TOWN OF TRURO
INSPECTION REPORT

DATE RECEIVED

10/3/24

OWNER

Sandbars Inn

CONTACT PHONE#

Chris Schultz

774-534-2525

LOCATION

570 Shore Rd.

Address

5 - 28

Map

Parcel

☐ GAS

☐ PLUMBING

☐ ELECTRICAL

☐ BUILDING*

Chg./mgr.

PERMIT #

*If this is a final/CO inspection: ☐ Curb Cut Sign Off?

☐ Septic System Certified?

PASS

X

FAIL

OK TO CONTINUE

DATE INSPECTED

10.22.24 ROL

COMMENTS

All OK

Fee: \$75.00



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

APPLICATION FOR BOARD OF HEALTH VARIANCES

Date: 11/6/24

Property Owner's Name: 8 HIGHLAND ROAD CONDOMINIUM/KATHERINE REED

Mailing Address: P.O. BOX 1367, PROVINCETOWN, MA 02657

Address of Property: 8 HIGHLAND ROAD

Map and Parcel Number: Map # 36 Parcel # 89-F

Design Engineer/Sanitarian GLEN E. HARRINGTON, R.S.

Firm/Company Name: GEO-CAPE ENV. CONSULTANTS Phone #: 774-238-1813

Address: 100 INDEPENDENCE DRIVE, SUITE 7-623, HYANNIS 02601

Please check type of variance requested:

☒ **Title 5 Variance Request: Section** 310 CMR 211/405(1)(h)

☐ **Board of Health Variance Request: Section/Article** _____

Signature (Representative)

11/6/24

Date

Signature (Property Owner)

A PERFECT ENVIRONMENT LLC

dba

GEO-CAPE ENVIRONMENTAL CONSULTANTS

100 INDEPENDENCE DRIVE, SUITE 7-623

HYANNIS, MA 02601

Phone: 774-238-1813

Email: aperfectenvironment@gmail.com

November 6, 2024

Emily Beebe, Health Agent
Truro Board of Health
24 Town Hall Road
Truro, MA 02666

RE: 8 Highland Road, Truro, MA

Dear Health Agent Beebe and Honorable Board members:

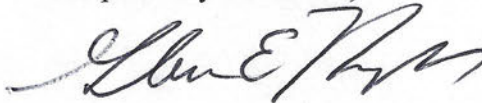
Please accept this letter as a description of the proposed variance that is requested for the upgrade of the septic system located at #8 Highland Road, Truro. The variance is requested from Title 5 of the State Environmental Code under Local Upgrade Approval. The variance is requested due to the small lot size and site constraints to meet existing conditions. The variance requested is listed below:

1. 310 CMR 15.405(1)(h) - A variance is requested to allow the proposed soil absorption system to be installed four feet from the seasonal groundwater in lieu of the required 5 feet. An advanced treatment system consisting of a Biomicrobics HighStrength FAST Model 3.0 and a NitriFAST Model 1.5 are proposed under DEP Remedial Approval to mitigate the variance.

In regard to the application, floor plans are typically required with the application submittal. The Health Agent stated that the floor plans were reviewed as part of the rental of the condominium units and the first floor plans of the office and restaurant were reviewed by the Health Department as part of the food service permit. No comments were issued by the Health Agent.

I look forward to meeting and discussing the design plan and requested variance at the public meeting. Thank you for your time and consideration in this matter.

Respectfully submitted,



Glen E. Harrington, R.S.

Cc: client

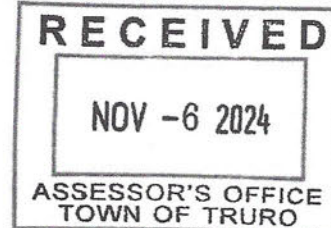
36-84



TOWN OF TRURO

Assessors Office

Certified Abutters List Request Form

DATE: 11/6/24NAME OF APPLICANT: 8 HIGHLAND ROAD CONDOMINIUMNAME OF AGENT (if any): GLEN E. HARRINGTON, R.S.MAILING ADDRESS: 100 INDEPENDENCE DR. SUITE 7-623, HYANNIS, MA 02601CONTACT: HOME/CELL 774-238-1813EMAIL aperfectenvironment@gmail.comPROPERTY LOCATION: 8 HIGHLAND ROAD

(street address)

PROPERTY IDENTIFICATION NUMBER: MAP 36PARCEL 89-F

EXT. _____

(if condominium)

ABUTTERS LIST NEEDED FOR:**FEE: \$15.00 per checked item**(please check all applicable)

(Fee must accompany the application unless other arrangements are made)

☒ Board of Health⁵

Planning Board (PB)

Zoning Board of Appeals (ZBA)

☐ Cape Cod Commission☐ Special Permit¹☐ Special Permit¹☐ Conservation Commission⁴☐ Site Plan²☐ Variance¹☐ Licensing☐ Preliminary Subdivision³

Type: _____

☐ Definitive Subdivision³☐ Other _____

(Fee: Inquire with Assessors)

(Please Specify)

Note: Per M.G.L., processing may take up to 10 calendar days. Please plan accordingly.**THIS SECTION FOR ASSESSORS OFFICE USE ONLY**Date request received by Assessors: Nov 6, 2024Date completed: Nov 6, 2024List completed by: Laura Gerjes

Date paid: _____ Cash/Check _____

¹Abutters, owners of land directly opposite on any public or private street or way, and abutters to the abutters within 300 feet of the property line.²Abutters to the subject property, abutters to the abutters, and owners of properties across the street from the subject property.³Landowners immediately bordering the proposed subdivision, landowners immediately bordering the immediate abutters, and landowners located across the streets and ways bordering the proposed subdivision. Note: For Definitive Subdivision only, responsibility of applicant to notify abutters and produce evidence as required.⁴All abutters within 300 feet of parcel, except Beach Point between Knowles Heights Road and Provincetown border, in which case it is all abutters within 100 feet. Note: Responsibility of applicant to notify abutters and produce evidence as required.⁵Abutters sharing any boundary or corner in any direction – including land across a street, river or stream. Note: Responsibility of applicant to notify abutters and produce evidence as required.



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

Date: November 6, 2024

To: Glen Harrington, R.S.

From: Assessors Department

Certified Abutters List: 8 Highland Road (Map 36 Parcel 89 Ext F)

Board of Health

Attached is a combined list of abutters for 8 Highland Road (Map 36 Parcel 89 Ext F)

The current owner is 8 Highland Road Condominium .

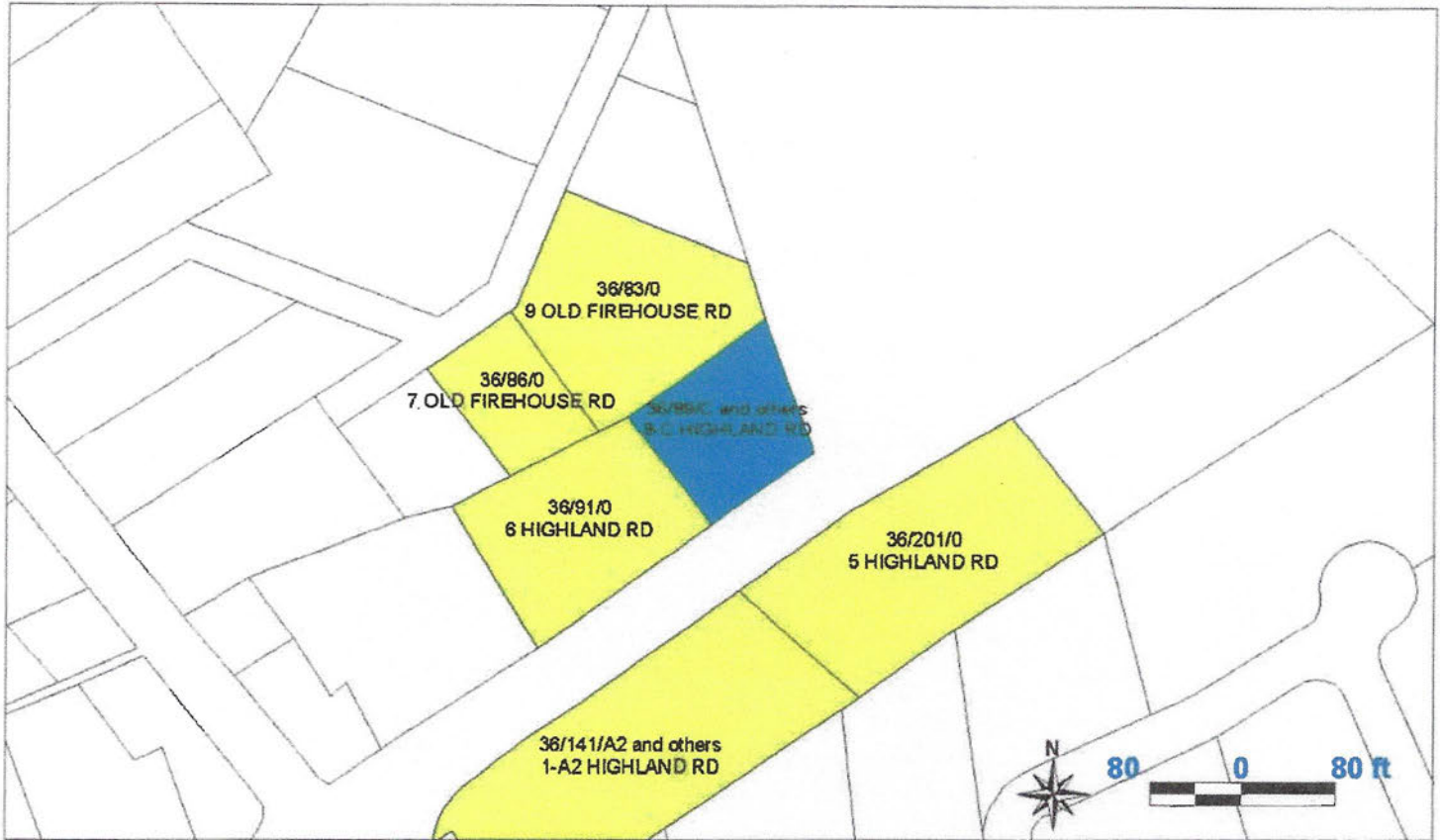
The names and addresses of the abutters are as of November 1, 2024 according to the most recent documents received from the Barnstable County Registry of Deeds.

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
973	36-83-0-R	COURT RICHARD A & PAMELA J	9 OLD FIREHOUSE RD	158 INDIAN TRAIL	DENNISPORT	MA	02639
975	36-86-0-R	TOBIAS WARREN D & DIANA C	7 OLD FIREHOUSE RD	PO BOX 291	NO TRURO	MA	02652-0291
980	36-91-0-R	THOMAS PRADA LIVING TRUST TRS: ERNEST THOMAS PRADA	6 HIGHLAND RD	PO BOX 236	NO TRURO	MA	02652
7034	36-141-0-E	ONE HIGHLAND ROAD CONDOMINIUM	1 HIGHLAND RD			MA	02666
7004	36-141-B-R	RYFF 7 LLC, RYFF 8 LLC, RYFF 9 LLC & RYFF 11 LLC	1-B HIGHLAND RD	87 AIRPORT ROAD	CONCORD	NH	03301
7001	36-141-A1-R	S & R REALTY TRUST TRS: SATERIALE FRED E III ETAL	1-A1 HIGHLAND RD	PO BOX 248	NO TRURO	MA	02652-0248
7002	36-141-A2-R	S & R REALTY TRUST TRS: SATERIALE FRED E III ETAL	1-A2 HIGHLAND RD	PO BOX 248	NO TRURO	MA	02652-0248
7003	36-141-A3-R	S & R REALTY TRUST TRS: SATERIALE FRED E III ETAL	1-A3 HIGHLAND RD	PO BOX 248	NO TRURO	MA	02652-0248
1086	36-201-0-R	POULIN ETHAN & ANDREA	5 HIGHLAND RD	PO BOX 263	NO TRURO	MA	02652-0263

8 Highland Road, Truro BOH Variance

9589 0710 5270 1280 9036 75

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
North Truro, MA 02652	
Certified Mail Fee	\$4.85
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$0.73
Total Postage and Fees	\$9.68
Sent To	
POULIN ETHAN & ANDREA	
PO BOX 263	
NO TRURO, MA 02652-0263	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	

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MILLIS MA 0648 01
Postmark here
11/07/2024

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☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.73

Total Postage and Fees \$9.68

COURT RICHARD A & PAMELA J
158 INDIAN TRAIL
DENNISPORT, MA 02639

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

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☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.73

Total Postage and Fees \$9.68

TOBIAS WARREN D & DIANA C
PO BOX 291
NO TRURO, MA 02652-0291

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

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☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.73

Total Postage and Fees \$9.68

THOMAS PRADA LIVING TRUST
TRS: ERNEST THOMAS PRADA
PO BOX 236
NO TRURO, MA 02652

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

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Truro, MA 02666

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☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.73

Total Postage and Fees \$9.68

ONE HIGHLAND ROAD CONDOMINIUM
1 Highland Road
TRURO, MA 02666

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

U.S. Postal ServiceTM
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Domestic Mail Only

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

Concord, NH 03301

Certified Mail Fee \$4.85
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$4.10
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.73

Total Postage and Fees \$9.68

RYFF 7 LLC, RYFF 8 LLC,
RYFF 9 LLC & RYFF 11 LLC
87 AIRPORT ROAD
CONCORD, NH 03301

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

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North Truro, MA 02652

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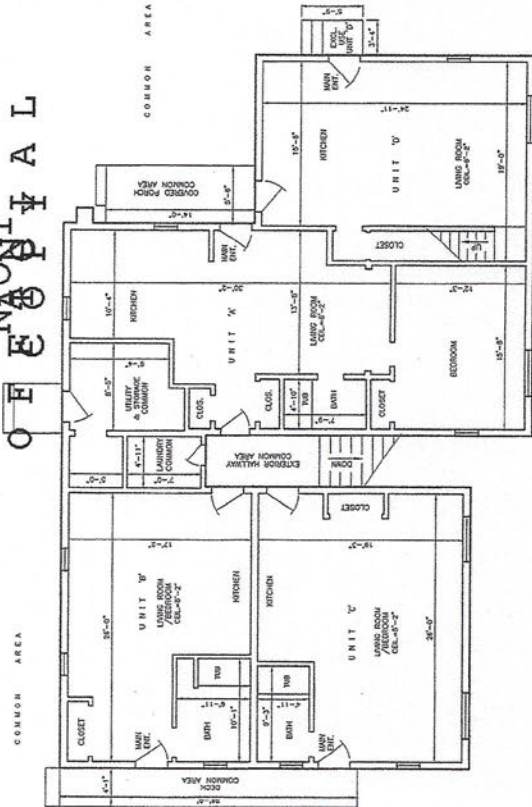
S & R REALTY TRUST
TRS: SATERIALE FRED E III ETAL
PO BOX 248
NO TRURO, MA 02652-0248

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

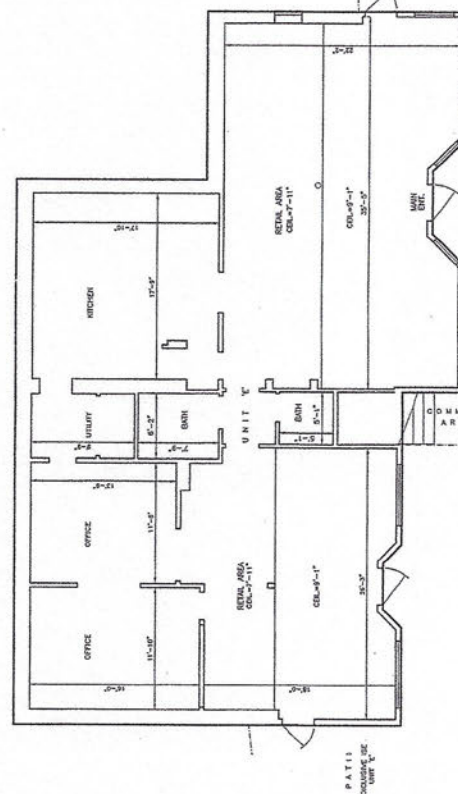
OFFICIAL RECORD OF EASES

BOOK 651 PAGE 14

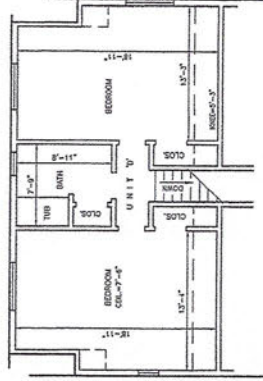
RECEIVED AND RECORDED
IN JAN - 5 (P 2 28)
REGISTER OF DEEDS
UNIT 115 ALE



LEVEL 2



LEVEL 1



LEVEL 3

UNIT AREA TABLE	
UNIT 'A'	681 ± SF.
UNIT 'B'	446 ± SF.
UNIT 'C'	501 ± SF.
UNIT 'D'	1,069 ± SF.
UNIT 'E'	2,118 ± SF.

FLOOR PLAN:
8 HIGHLAND ROAD
CONDOMINIUM
TRURO, MA

SCALE 3/16" = 1' MAY 17, 2013

DRAWING SCALE IN FEET
0' 5' 10'

I HEREBY STATE THIS PLAN, MAP, AND ACCORDANCE
REPRESENTS THE LATENT LOCATION, UNIT NUMBER AND
DIMENSIONS OF UNITS A-E INCLUSIVE AS-BUILT.

DATE 04/23/2014 John M. Elmer
JOHN M. ELMER P.L.C.

I HEREBY STATE THIS PLAN, MAP, AND ACCORDANCE
REPRESENTS THE LATENT LOCATION, UNIT NUMBER AND
DIMENSIONS OF UNITS A-E INCLUSIVE AS-BUILT.

DATE 04/23/2014 John M. Elmer
JOHN M. ELMER P.L.C.

— FELCO, INC. —

ENGINEERING / LAND SURVEYING
100 STATE STREET, SUITE 200
CAMBRIDGE, MA 02142
(617) 552-8844 FAX (617) 552-8844

SHEET 2 OF 2 JOB # 13044

SITE PLAN
SCALE: 1" = 20'
B.M.=20.55' (APPROX GIS)
ON P.K. NAIL SET

LEGEND

- W— Approximate location water line
- Existing contour
- Proposed 2,250-gallon FAST treatment tank
- Denotes existing spot grade
- Test Hole
- Denotes Existing 28'x10' SAS
- Denotes Existing 1,000-gallon Grease Trap
- Denotes Existing 2,500-gallon Septic Tank
- Denotes Existing 1,000-gallon Pump Chamber
- Denotes Overhead Utilities
- Denotes Underground Utilities
- Denotes Setbacks
- Proposed 500-gallon pump chamber/recirculation tank
- Proposed observation port

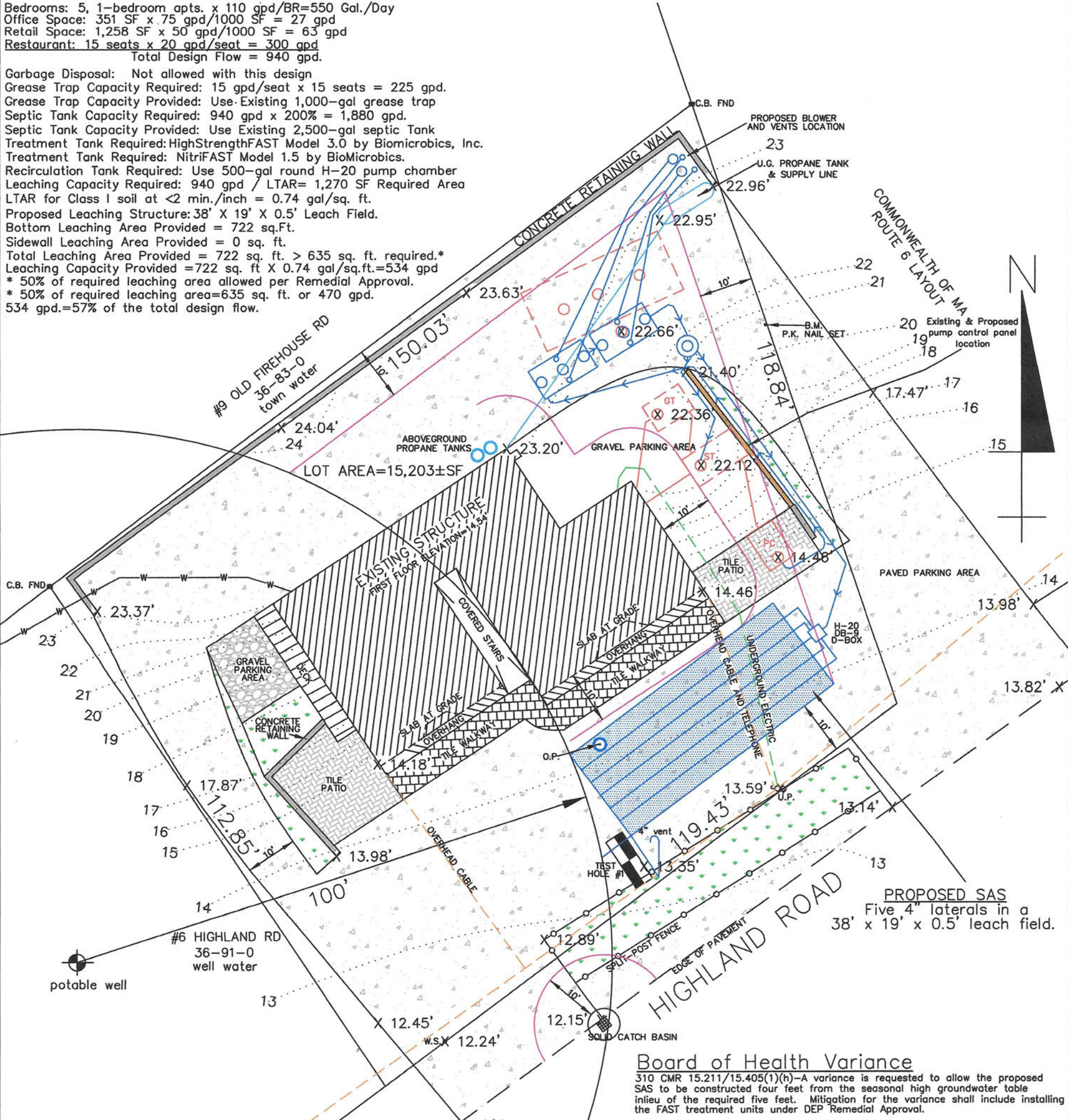
GENERAL NOTES

1. ADDRESS: #8 HIGHLAND ROAD, TRURO, MA.
2. ASSESSOR'S NUMBER: MAP 36 PARCEL 89-F
3. DEVELOPER'S LOT: N/A
4. TOPOGRAPHIC INFORMATION WAS COMPILED FROM AN ON THE GROUND INSTRUMENT SURVEY.
5. REFERENCE PLAN: PLAN BOOK 382 PAGE 24
6. WELL AND TOWN WATER IS PROVIDED TO THE SITE & SURROUNDING PROPERTIES.
7. NO WETLANDS ARE LOCATED WITHIN 150 FEET OF THE PROPOSED SAS.
8. UTILITIES LOCATED BY DIGSAFE. UTILITY LOCATIONS ARE APPROXIMATE.
9. THIS DESIGN PLAN IS TO BE UTILIZED FOR THIS SEPTIC INSTALLATION ONLY.
10. EXISTING SEPTIC COMPONENTS WERE LOCATED IN THE FIELD & PER AS-BUILT ON FILE.
11. THE PROPERTY IS LOCATED IN A FLOOD ZONE-X MINIMAL FLOOD HAZARD ZONE.
12. THE PROPERTY IS NOT LOCATED IN A D.E.P. ZONE-II.
13. THE PROPERTY IS NOT LOCATED IN THE D.E.P. NRA/NSA.

DESIGN CALCULATIONS

Bedrooms: 5, 1-bedroom apts. x 110 gpd/BR=550 Gal./Day
Office Space: 351 SF x 75 gpd/1000 SF = 27 gpd
Retail Space: 1,258 SF x 50 gpd/1000 SF = 63 gpd
Restaurant: 15 seats x 20 gpd/seat = 300 gpd
Total Design Flow = 940 gpd.

Garbage Disposal: Not allowed with this design
Grease Trap Capacity Required: 15 gpd/seat x 15 seats = 225 gpd.
Grease Trap Capacity Provided: Use Existing 1,000-gal grease trap
Septic Tank Capacity Required: 940 gpd x 200% = 1,880 gpd.
Septic Tank Capacity Provided: Use Existing 2,500-gal septic Tank
Treatment Tank Required: HighStrengthFAST Model 3.0 by BioMicrobics, Inc.
Treatment Tank Required: NitrifAST Model 1.5 by BioMicrobics.
Recirculation Tank Required: Use 500-gal round H-20 pump chamber
Leaching Capacity Required: 940 gpd / LTAR= 1,270 SF Required Area
LTAR for Class I soil at <2 min./inch = 0.74 gal/sq. ft.
Proposed Leaching Structure: 38' X 19' X 0.5' Leach Field.
Bottom Leaching Area Provided = 722 sq.ft.
Sidewall Leaching Area Provided = 0 sq. ft.
Total Leaching Area Provided = 722 sq. ft. > 635 sq. ft. required.*
Leaching Capacity Provided = 722 sq. ft X 0.74 gal/sq.ft.=534 gpd
* 50% of required leaching area allowed per Remedial Approval.
* 50% of required leaching area=635 sq. ft. or 470 gpd.
534 gpd.=57% of the total design flow.



Board of Health Variance

310 CMR 15.211/15.405(1)(h)-A variance is requested to allow the proposed SAS to be constructed four feet from the seasonal high groundwater table in lieu of the required five feet. Mitigation for the variance shall include installing the FAST treatment units under DEP Remedial Approval.

PROPOSED SEPTIC SYSTEM REPAIR

PREPARED FOR

8 HIGHLAND ROAD CONDOMINIUM

AT

#8 HIGHLAND ROAD
TRURO, MA



PREPARED BY:

A Perfect Environment LLC
dba
Geo-Cape Environmental Consultants
100 Independence Drive, Suite 7-623
Hyannis, MA 02601

Tel: 774-238-1813

Email: aperfectenvironment@gmail.com

SCALE: 1"=20'

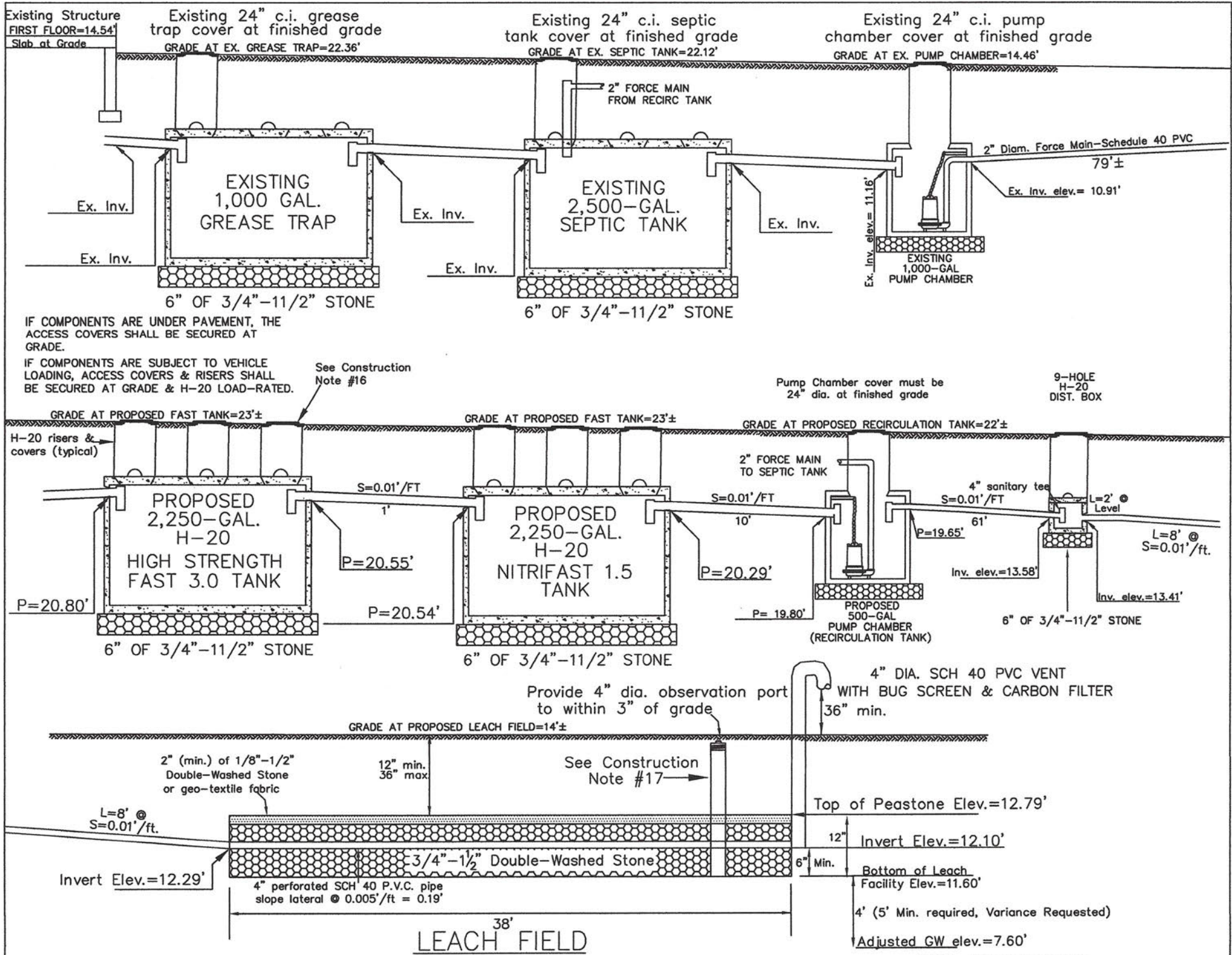
DRAWN BY: TWH

DATE: NOV. 1, 2024

DATUM: APPROX GIS

FILENAME:SHIGHLAND 5BR

SHEET 1 OF 4



CONSTRUCTION NOTES

- Contractor is responsible for Digsafe notification and protection of all underground utilities, site features and pipes.
- The septic tank and distribution box shall be set level on 6" of 3/4"-1 1/2" stone.
- Backfill should be clean sand or gravel with no stones over 3" in size.
- This system is subject to inspection during installation by Geo-Cape Environmental Consultants.
- The contractor shall install this system in accordance with Title 5 of the Massachusetts Environmental Code and local Board of Health Rules and Regulations.
- If, during installation the contractor encounters any soil conditions or site conditions that are different from those shown on the soil log or in the design, the installer shall halt installation and immediately notify Geo-Cape Environmental Consultants.
- No vehicle or heavy machinery shall drive over the septic system unless noted as H-20 septic components.
- All piping shall be 4" diameter SCH 40 PVC unless otherwise specified.
- Potable wells not shown are located greater than 200' from the proposed SAS.
- Provide two 2,250-gallon H-20 treatment tanks (Item #FTIM 3.0), one 500-gal. pump chamber as a recirculation tank and 1 H-20 DB-9 distribution box by Acme-Shorey Precast or equal.
- Existing cesspools shall be pumped and backfilled / removed.
- The designer is not responsible for undocumented septic components.
- The septic components shall be marked with magnetic marking tape.
- The Contractor shall provide a minimum of 24 hour notice to the Designer and Board of Health for as-built inspection of the system prior to backfilling.
- Provide 4" diameter SCH 40 PVC vent with carbon filter. Location of vent to be determined in the field.
- Install 24" dia. cast iron frame and cover by New England Municipal and Construction Castings Model OMA124000014 or approved equal on all covers at grade.
- Observation port to be protected by an H-20 riser and cover to grade.
- The grease trap shall be maintained in accordance with "310 CMR 15.351 - System Pumping and Routine Maintenance. 15.351(2) - Grease traps shall be inspected monthly and shall be cleaned by a licensed septage hauler whenever the grease is 25% of the effective depth of the trap, or at least every three months, whichever is sooner."
- The contractor shall install a 4" diameter SCH 40 PVC sanitary tee on the inlet of the distribution box.

SOIL EVALUATION

DATE OF SOIL EVALUATION: AUGUST 16, 2024
EVALUATION PERFORMED BY: GLEN HARRINGTON, R.S.
EXCAVATOR: T.L.H. EXCAVATION
WITNESS: AROZANA DAVIS, ASSISTANT HEALTH AGENT
PERCOLATION RATE: <2 MPI IN C1

Test Hole
No. 1

DEPTH	SOILS	ELEV.
0"		13.35
	FILL	
29"		10.93
	Ab LOAMY SAND	
35"	10YR5/2	10.43
	Bw LOAMY SAND	
48"	7.5YR5/6	9.35
86"		6.18
97"	C1	5.25
	MEDIUM- COARSE SAND	
120"	15% GRAVEL 7.5YR5/6	3.35

GROUNDWATER OBSERVED

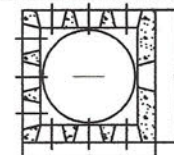
Soil Evaluation Certification

I certify that on October, 1995, I have passed the soil evaluator examination approved by the DEP and that the analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

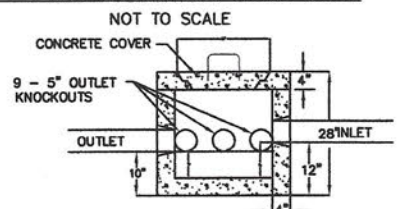
GLEN E. HARRINGTON, R.S.

9 HOLE DISTRIBUTION BOX

ALL OUTLET PIPES FROM THE DISTRIBUTION BOX SHALL BE SET LEVEL FOR AT LEAST 2 FT.



PLAN SECTION



CROSS-SECTION

PROPOSED SEPTIC SYSTEM REPAIR

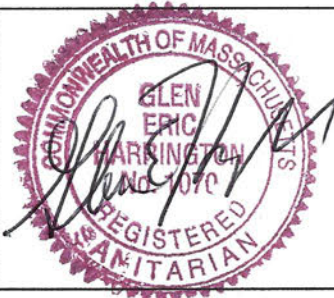
PREPARED FOR

8 HIGHLAND ROAD CONDOMINIUM

AT

#8 HIGHLAND ROAD

TRURO, MA



PREPARED BY:

A Perfect Environment LLC

dba

Geo-Cape Environmental Consultants

100 Independence Drive, Suite 7-623

Hyannis, MA 02601

Tel: 774-238-1813

Email: aperfectenvironment@gmail.com

SCALE: 1"=20'

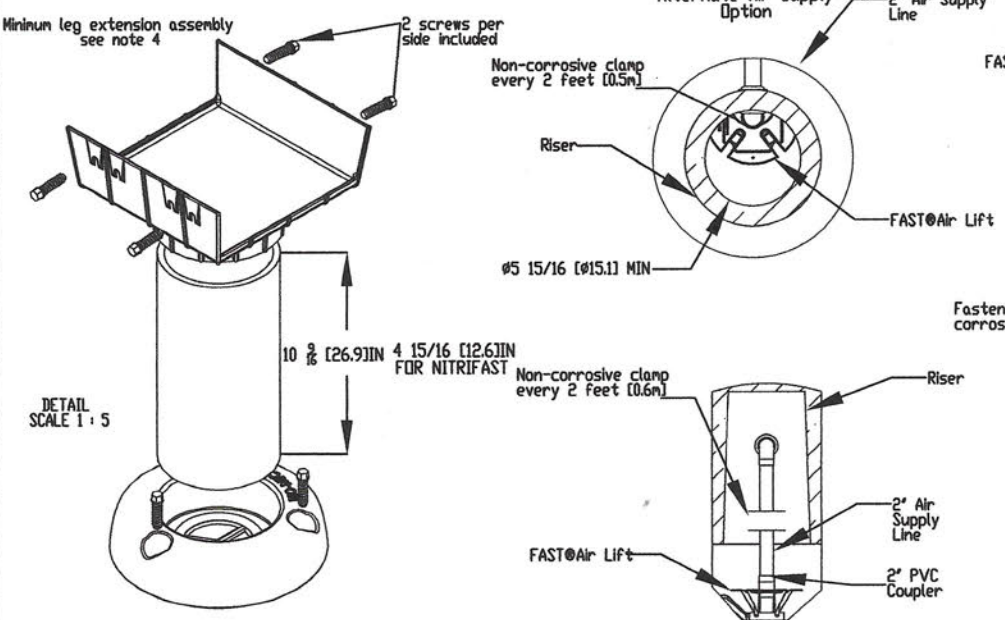
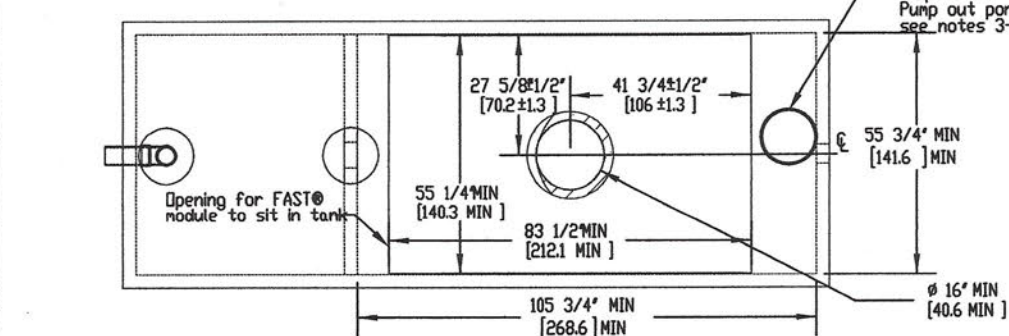
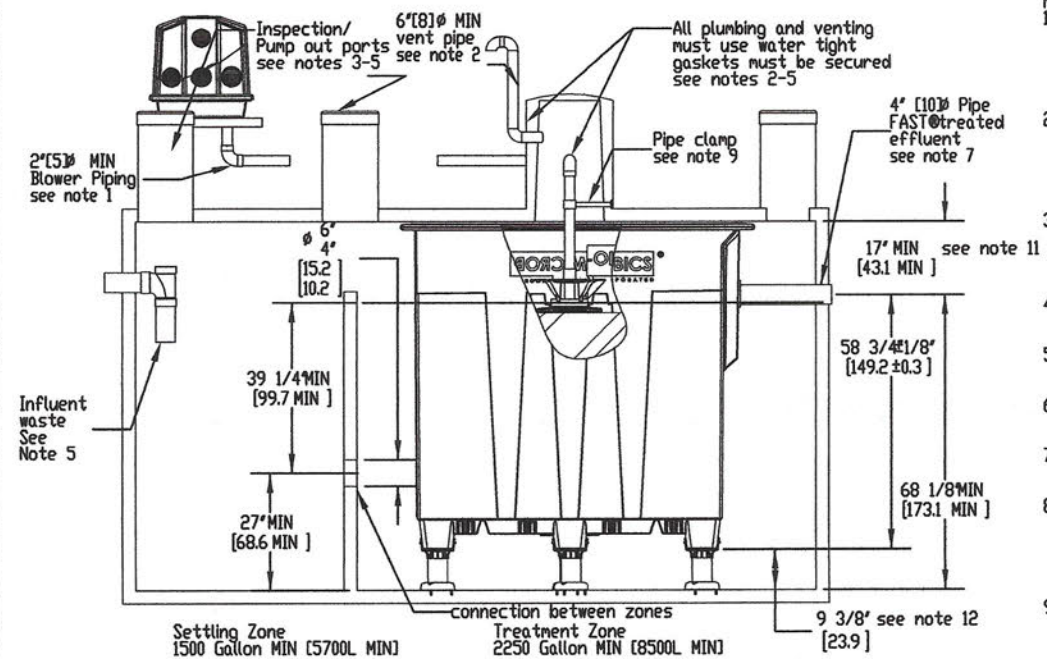
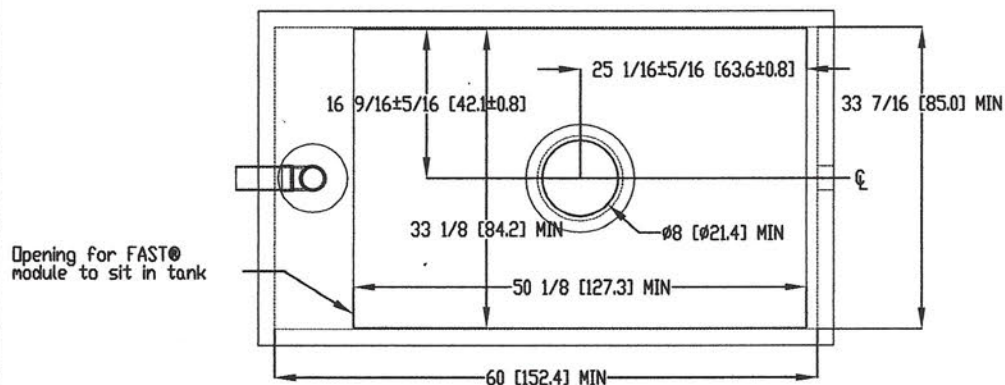
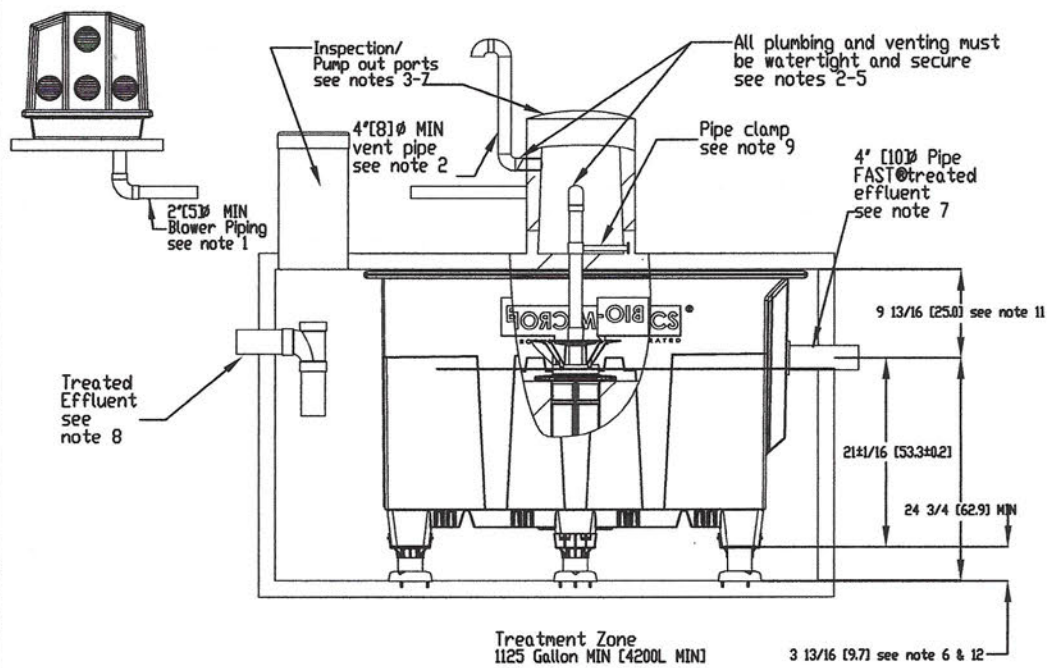
DRAWN BY: TWH

DATE: NOV. 1, 2024

DATUM: APPROX GIS

FILENAME: 8HIGHLAND 5BR

SHEET 2 OF 4



- NOTES**
- Airline piping to FAST may not exceed 100 FT (30m) total length and have a maximum of 4 elbows in the piping system. For distances greater than 100 FT (30m) consult factory. Blower must be located above flood levels on a concrete base 42" X 28" X 2" (105 X 70 X 5cm) min.
 - Vent to desired location and cover opening with a vent grate with at least 9 sq in (60 sq cm) open surface area. Secure with stainless steel screws. Vent piping must not allow condensate build up or create back pressure. Vent must be above finished grade or higher (see detail below).
 - All appurtenances to FAST (e.g. tanks, access ports, electrical, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Pump out access shall be adequate to thoroughly clean out both zones.
 - All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
 - Tank, piping, conduit, etc. are provided by others. Blower control system by Bio-Microbics, Inc. See Installation Manual.
 - If less than the specified minimums are considered necessary, consult factory for guidance.
 - All piping and ancillary equipment installed after FAST must not impede or restrict free flow of effluent.
 - The NitrifAST is designed to receive treated effluent from an approved secondary treatment system.
 - The air supply line into the FAST unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' min (60 cm). See alternate air supply option on details below.
 - Specialized treatment levels may require specific features to be incorporated into the design. Consult factory for guidance.
 - Min. height may be reduced, consult factor and reference 'Low Profile Module Procedure.pdf'
 - Refer to detail below for leg extensions requirements.

WEIGHT	lb	SIZE	DRAWING NUMBER
NONE	DATE	A	NitrifAST 1.5 with feet
DRAWN	CTC 12/18/2006		BIO-MICROBICS 2014
CHECKED	PF 10/10/2013	REVISED 10/10/2013	REV. INI-03-N

- NOTES**
- Airline piping to FAST may not exceed 100 FT (30m) total length and have a maximum of 4 elbows in the piping system. For distances greater than 100 FT (30m) consult factory. Blower must be located above flood levels on a concrete base 42" X 28" X 2" (105 X 70 X 5cm) min.
 - Vent to desired location and cover opening with a vent grate with at least 20 sq in (125 sq cm) open surface area. Secure with stainless steel screws. Vent piping must not allow condensate build up or create back pressure. Vent must be above finished grade or higher (see details below).
 - All appurtenances to FAST (e.g. tanks, access ports, electrical, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Pump out access shall be adequate to thoroughly clean out both zones.
 - All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
 - Tank, piping, conduit, etc. are provided by others. Blower control system by Bio-Microbics, Inc. See Installation Manual.
 - If less than the specified minimum is considered necessary, consult factory for guidance.
 - All piping and ancillary equipment installed after FAST must not impede nor restrict free flow of effluent.
 - The tank(s) shall be designed to prevent air passage between the settling zone/tank and the treatment zone and preventing an air lock. Examples include a baffle wall sealed to the lid or treatment zone inlet line with a pipe cap. Consult factory for guidance.
 - The air supply line into the FAST unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' min (60 cm). See alternate air supply option on details below.
 - Specialized treatment levels may require specific features to be incorporated into the design. Consult factory for guidance.
 - Min. height may be reduced, consult factor and reference 'Low Profile Module Procedure.pdf'
 - Refer to detail below for leg extensions requirements.

WEIGHT	lb	SIZE	DRAWING NUMBER
NONE	DATE	A	HSFAST 3.00 with feet
DRAWN	CTC 12/18/2006		BIO-MICROBICS 2014
CHECKED	PF 10/10/2013	REVISED 10/10/2013	REV. INI-04-B

NBS 6" Grate MIN 20 SQ in (125 Sq cm) of open surface area

FAST REQUIREMENTS

- The HighStrengthFAST and NitrifAST shall be installed, operated, maintained and tested according to Remedial Use Approval Transmittal #W072367, last revised 11/5/2012 and the Standard Conditions for Secondary Treatment Units under Remedial Use, revised 11/30/2016.
- The property owner shall record a Notice of Deed Restriction at the Barnstable County Registry of Deeds prior to the installation of the system, indicating the use of an innovative/alternative septic system on the property.
- The property owner shall maintain an operation and maintenance contract with a company certified system operator for the FAST treatment units. The contract shall be for a minimum period of one year.
- The contractor shall coordinate the placement of all alarm panels, vents and blower unit with the property owner and system manufacturer prior to installation. A licensed electrician shall perform all work via permit.

- Notes**
- Secure leg extension to the FAST unit by placing two screws on each side of the leg extension (4 screws per foot are included).
 - Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 9 3/8" (24cm). For heights greater than 18" (45.7cm) use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36" (91cm).
 - Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
 - If less than the minimum of 10 inches (25.5 cm) is used between the lowest point of the insert and the base of the tank, consult factory for guidance.
 - The air supply line into the FAST unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft (0.6m) minimum.
 - Tank, anchors, piping conduit, blower, housing pad and vents are provided by others.

PROPOSED SEPTIC SYSTEM REPAIR

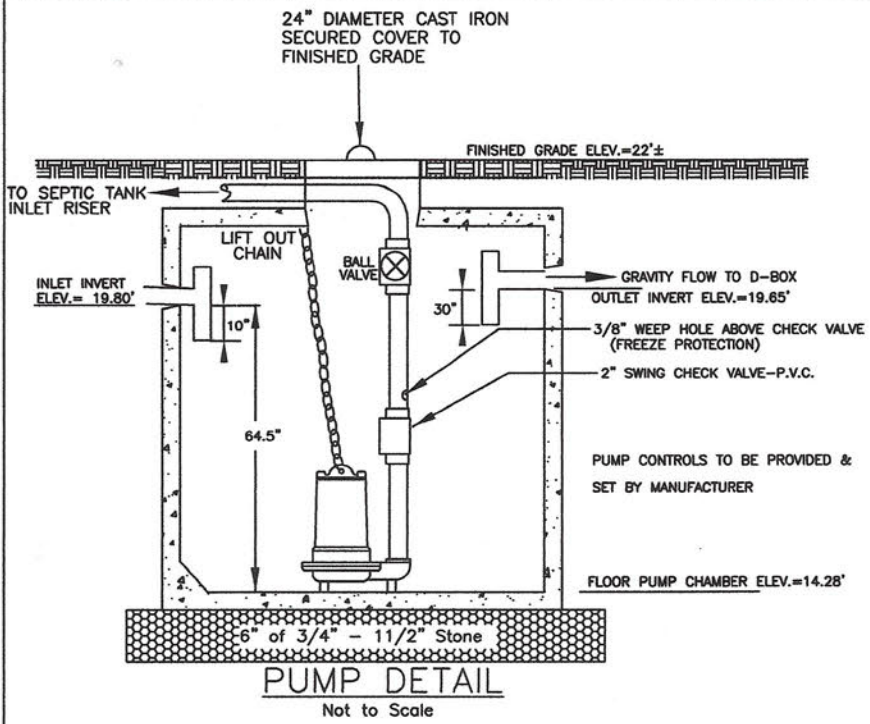
PREPARED FOR
8 HIGHLAND ROAD CONDOMINIUM
AT
#8 HIGHLAND ROAD
TRURO, MA



PREPARED BY: A Perfect Environment LLC
dba
Geo-Cape Environmental Consultants
100 Independence Drive, Suite 7-623
Hyannis, MA 02601

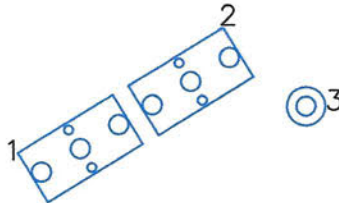
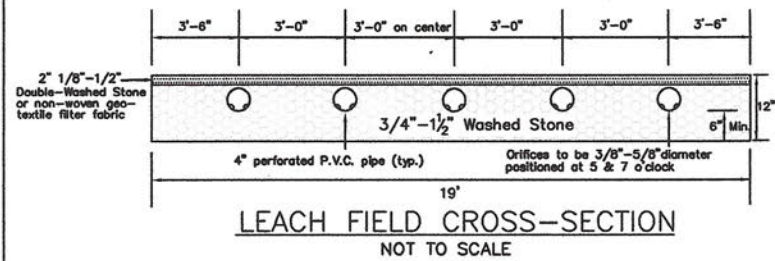
Tel: 774-238-1813
Email: aperfectenvironment@gmail.com

SCALE: 1"=20'	DRAWN BY: TWH	DATE: NOV. 1, 2024
DATUM: APPROX GIS	FILENAME: 8HIGHLAND 5BR	SHEET 3 OF 4



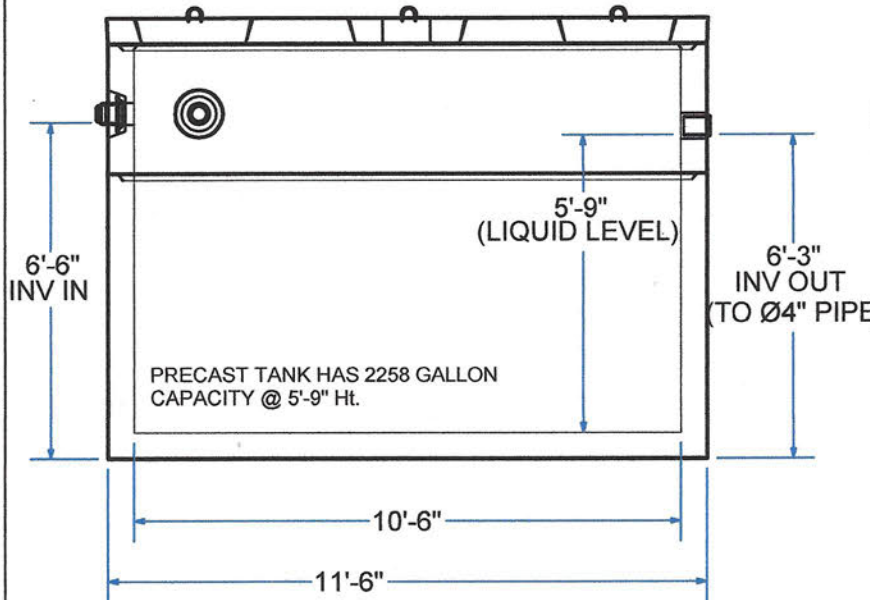
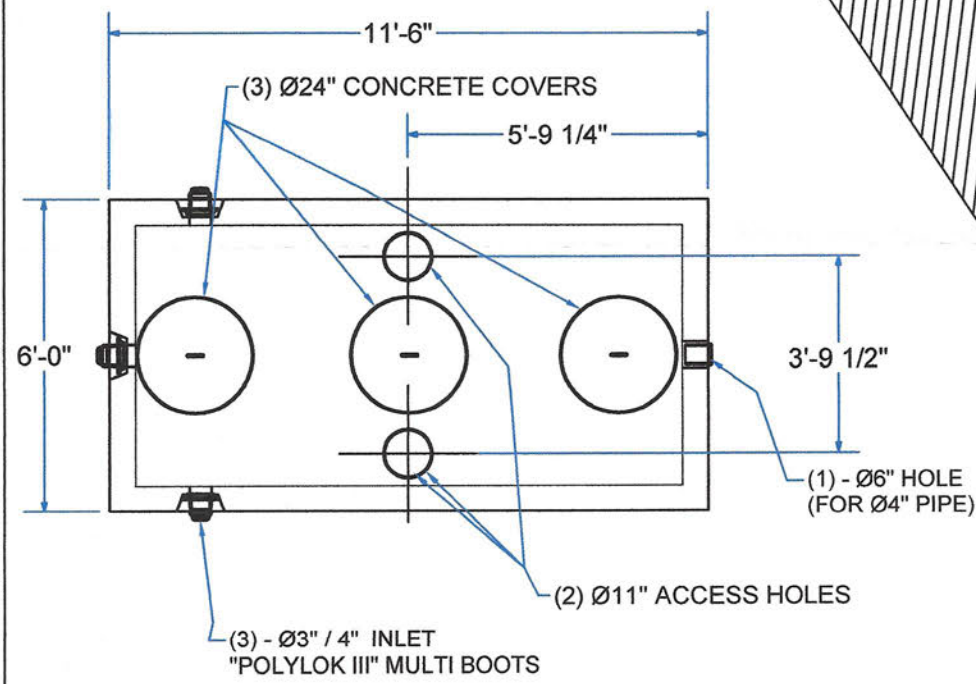
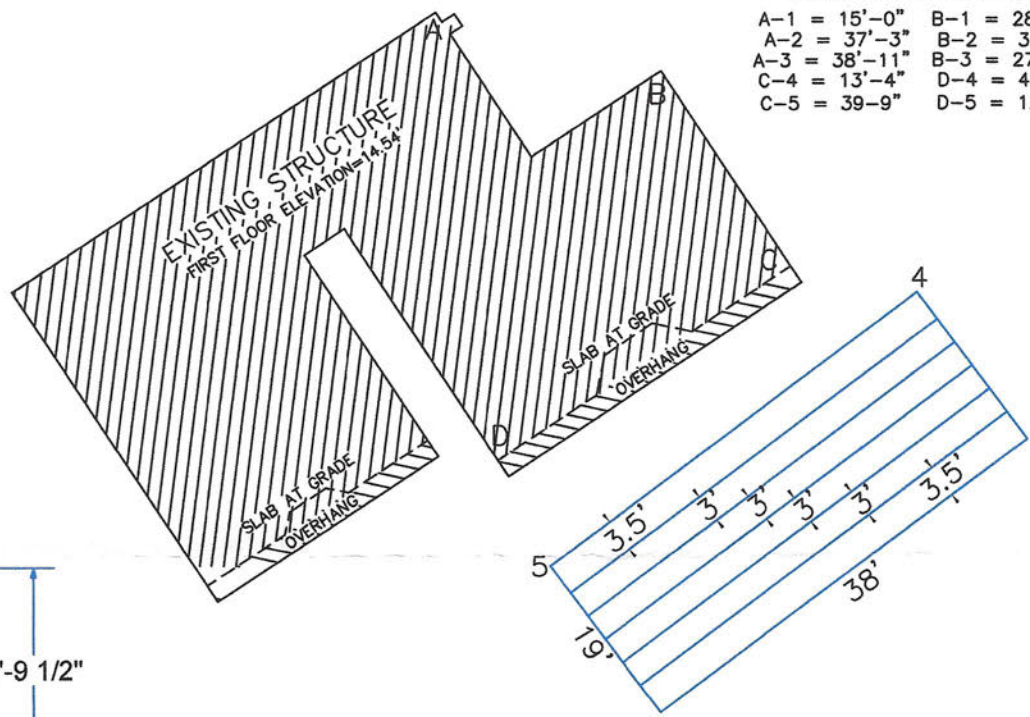
PUMP NOTES & SPECIFICATIONS

1. PROVIDE 1 GOULD MODEL 3887BHF 1/3 H.P. SUBMERSIBLE PUMPS CAPABLE OF PASSING A MINIMUM SOLID SIZE OF 2" DIAMETER DISCHARGE, 115V, 1 PHASE OR EQUAL. THE PUMP SHALL PERFORM AT A MINIMUM AT 103 GPM AT 9.3' TOTAL HEAD.
2. A RHOMBUS ANALOG SIMPLEX ELECTRIC NEMA 4X CONTROL PANEL OUTDOOR MOUNTED W/VISIBLE ALARM OR EQUAL SHALL BE PROVIDED BY J & R SALES.
3. PUMPS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS & DETAIL SHOWN.
4. ALARM SHALL CONSIST OF AUDIBLE SIGNAL & RED WARNING LIGHT TO BE INSTALLED ON BUILDING AND POWERED BY SEPARATE CIRCUIT FROM CIRCUITS TO PUMP.
5. AN ELECTRICAL PERMIT SHALL BE OBTAINED PRIOR TO INSTALLING ALARM AND PUMP POWER.
6. THE FORCE MAIN SHALL BE 2" DIA. SCH 40 PVC WITH THRUST BLOCKS INSTALLED, AS NECESSARY.
7. INSTALL STAINLESS STEEL SLIDE RAIL SYSTEM AND SIMPLEX DISCHARGE PIPING OR PULL CHAIN OR EQUAL.



SYSTEM LAYOUT

- Scale: 1"=20'
CORNERBOARDS TO COMPONENTS
- | | |
|---------------|--------------|
| A-1 = 15'-0" | B-1 = 28'-2" |
| A-2 = 37'-3" | B-2 = 33'-6" |
| A-3 = 38'-11" | B-3 = 27'-5" |
| C-4 = 13'-4" | D-4 = 46'-8" |
| C-5 = 39'-9" | D-5 = 12'-3" |



FAST TANK SPECIFICATIONS

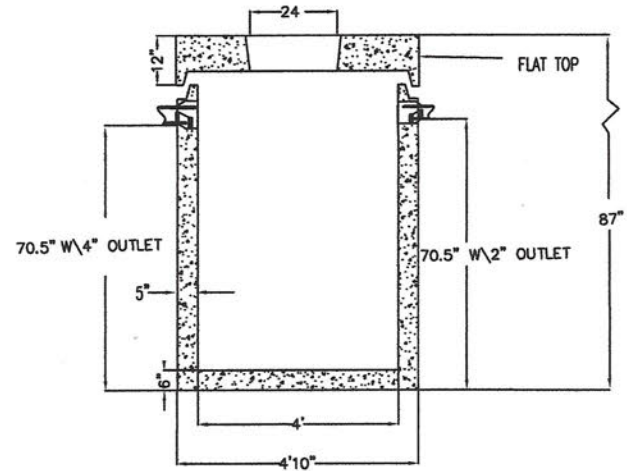
1. CONCRETE 5,000 PSI AFTER 28 DAYS
2. CONSTRUCTION CONFORMS TO 310 CMR 15.226
3. REINFORCEMENT PER ASTM A615, GRADE 60
4. DESIGN LOADING: STANDARD UNITS - AASHTO H-20
5. WEIGHT = 30,100, LBS.

FAST TANK 3.0 INTERNAL MOUNT

NOT TO SCALE
ACME-SHOREY ITEM #FTIM 3.0

500-GAL. PUMP CHAMBER

1. CONCRETE STRENGTH 5,000 PSI @ 28 DAYS
2. CEMENT, PORTLAND TYPE II PER ASTM C150-81.
3. STEEL REINFORCEMENT PER ASTM A-615, GRADE 60.
4. DESIGN LOADING PER AASHTO HS-20.
5. WEIGHT APPROX. 8,500 LBS WITH FLAT TOP.



PROPOSED SEPTIC SYSTEM REPAIR

PREPARED FOR
8 HIGHLAND ROAD CONDOMINIUM
AT
#8 HIGHLAND ROAD
TRURO, MA



PREPARED BY: A Perfect Environment LLC
dba
Geo-Cape Environmental Consultants
100 Independence Drive, Suite 7-623
Hyannis, MA 02601

Tel: 774-238-1813

SCALE: 1"=20'	DRAWN BY: TWH	DATE: NOV. 1, 2024
DATUM: APPROX GIS	FILENAME: 8HIGHLAND 5BR	SHEET 4 OF 4

Town of Truro
NITROGEN LOADING CALCULATION SHEET FOR RESIDENTIAL HOUSING

EXISTING CONDITIONS	5 Corn Hill Landing
----------------------------	----------------------------

Number of Bedrooms	3 Bedrooms
Lot Size	34586.64 Sq. Ft
Impervious Surfaces	
Roof	1230 Sq. Ft
Paved	4531 Sq. Ft
Natural Area = lot area-impervious area	28825.64 Sq. Ft
Lawn Area	1788 Sq. Ft

TITLE 5 FLOW = 110 GAL/DAY PER BEDROOM

WASTEWATER FLOWS (NITROGEN LOAD & WATER LOAD)

	EXISTING
Nitrogen from Title 5 Design	14572 mg NO3-N/day
Water from Title 5 Design	416.3 L H2O/day

1a) Number of Bedrooms	3 X	14572 =	43716 mg NO3-N/day
1b) Number of Bedrooms	3 X	416.3 =	1248.9 L H2O/day

Actual Nitrogen Load	6071.5 mg NO3-N/day
Actual Water Load	173.5 L H2O/day
*Assumes 2.5 people/unit Average Occupancy	

2a) Number of Bedrooms	3 X	6071.5 =	18214.5 mg NO3-N/day
2b) Number of Bedrooms	3 X	173.5 =	520.5 L H2O/day

IMPERVIOUS SURFACES (NITROGEN LOAD & WATER LOAD)

NO3-N Load number sq. ft. of roof surface	0.19395 mg NO3-N/S.F.
H2O load number sq. ft. of roof surface	0.2586 L H2O/S.F.

3a) Roof Surface	1230 X	0.19395 =	238.5585 mg NO3-N/day
3b) Roof Surface	1230 X	0.2586 =	318.078 L H2O/day

NO3-N Load number sq. ft. of Paved surface	0.388 mg NO3-N/S.F.
H2O load number sq. ft. of Paved surface	0.2586 L H2O/S.F.

4a) Paved Surface	4531 X	0.388 =	1758.028 mg NO3-N/day
4b) Paved Surface	4531 X	0.2586 =	1171.717 L H2O/day

LAWN NITROGEN LOAD

Lawn Nitrogen load	0.933 mg/S.F. lawn surface
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5) Lawn Surface (s.f.)	1788 X	0.933 =	1668.204 mg/S.F. lawn surface
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NATURAL AREA WATER LOADING

Natural Area = lot size - impervious surface	0.1358 L/s.f. for Bourne
--	--------------------------

6) Natural Area	28825.64 X	0.1358 =	3914.522 L/S.F.
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SUMMARY OF NITROGEN LOADING

Estimated Title 5 Nitrogen & Water Loading

7a) Add Above NO3N Load	1a+3a+4a+5		47380.79 mg NO3-N/day
7b) Add Above H2O Load	1b+3b+4b+6		6653.217 L H2O/day
7c) DIVIDE 7a by 7b			7.121486 ppm NO3-N

Actual Title 5 Nitrogen & Water Loading

8a) Add Above NO3N Load	2a+3a+4a+5		21879.29 mg NO3-N/day
8b) Add Above H2O Load	2b+3b+4b+6		5924.817 L H2O/day
8c) DIVIDE 8a by 8b			3.692822 ppm NO3-N

FINAL CALCULATION	ADD 7c & 8c	7.121486 +	3.692821618 =	10.81431 divide by 2	5.407154 ppm NO3-N
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Town of Truro
NITROGEN LOADING CALCULATION SHEET FOR RESIDENTIAL HOUSING

PROPOSED CONDITIONS	5 Corn Hill Landing
----------------------------	----------------------------

Number of Bedrooms	3 Bedrooms
Lot Size	34586.64 Sq. Ft
Impervious Surfaces	
Roof	1615 Sq. Ft
Paved	4345 Sq. Ft
Natural Area = lot area-impervious area	28626.64 Sq. Ft
Lawn Area	6540 Sq. Ft

TITLE 5 FLOW = 110 GAL/DAY PER BEDROOM

WASTEWATER FLOWS (NITROGEN LOAD & WATER LOAD)

	PROPOSED	
Nitrogen from Title 5 Design 45% FAST	6557.4	mg NO3-N/day
Water from Title 5 Design	416.3	L H2O/day

14572 Normal

1a) Number of Bedrooms	3 X	6557.4 =	19672.2 mg NO3-N/day
1b) Number of Bedrooms	3 X	416.3 =	1248.9 L H2O/day

Actual Nitrogen Load 6071.5 mg NO3-N/day
Actual Water Load 173.5 L H2O/day
*Assumes 2.5 people/unit Average Occupancy

2a) Number of Bedrooms	3 X	6071.5 =	18214.5 mg NO3-N/day
2b) Number of Bedrooms	3 X	173.5 =	520.5 L H2O/day

IMPERVIOUS SURFACES (NITROGEN LOAD & WATER LOAD)

NO3-N Load number sq. ft. of roof surface 0.19395 mg NO3-N/S.F.
H2O load number sq. ft. of roof surface 0.2586 L H2O/S.F.

3a) Roof Surface	1615 X	0.19395 =	313.2293 mg NO3-N/day
3b) Roof Surface	1615 X	0.2586 =	417.639 L H2O/day

NO3-N Load number sq. ft. of Paved surface 0.388 mg NO3-N/S.F.
H2O load number sq. ft. of Paved surface 0.2586 L H2O/S.F.

4a) Paved Surface	4345 X	0.388 =	1685.86 mg NO3-N/day
4b) Paved Surface	4345 X	0.2586 =	1123.617 L H2O/day

LAWN NITROGEN LOAD

Lawn Nitrogen load 0.933 mg/S.F. lawn surface

5) Lawn Surface (s.f.)	6540 X	0.933 =	6101.82 mg/S.F. lawn surface
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NATURAL AREA WATER LOADING

Natural Area = lot size - impervious surface 0.1358 L/s.f. for Bourne

6) Natural Area	28626.64 X	0.1358 =	3887.498 L/S.F.
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SUMMARY OF NITROGEN LOADING

Estimated Title 5 Nitrogen & Water Loading

7a) Add Above NO3N Load	1a+3a+4a+5	27773.11 mg NO3-N/day
7b) Add Above H2O Load	1b+3b+4b+6	6677.654 L H2O/day
7c) DIVIDE 7a by 7b		4.159112 ppm NO3-N

Actual Title 5 Nitrogen & Water Loading

8a) Add Above NO3N Load	2a+3a+4a+5	26315.41 mg NO3-N/day
8b) Add Above H2O Load	2b+3b+4b+6	5949.254 L H2O/day
8c) DIVIDE 8a by 8b		4.423313 ppm NO3-N

FINAL CALCULATION	ADD 7c & 8c	4.159112 +	4.423312658 =	8.582425 divide by 2	4.291212 ppm NO3-N
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NOT TO SCALE

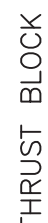
1. PUMP CHAMBER TO WITHSTAND H-20 LOADING
2. ALL PIPE CONNECTIONS AND CONCRETE CONSTRUCTION SHALL BE WATERTIGHT
3. RAISE MANHOLE TO FINISH GRADE WITH SEWER CHASE AND MORTAR; FILL OUT MORTAR PARGE TO PROVIDE WATERTIGHT SEAL.
4. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING AND WIRE CODES.
5. 1/4" WEEP-HOLE TO BE INSTALLED ABOVE 2" UNION.
6. PUMP AND ALARM TO BE ON SEPARATE CIRCUITS.
7. CONTROL PANEL FOR PUMP/ALARM TO BE LOCATED INSIDE DWELLING. ALARM TO BE AUDIO/VISUAL.
8. PUMP AND ALARM TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING AND WIRE CODES.
9. FINISHING AND STRUCTURAL TANK FIVE PUMP CHAMBER. INSTALLER TO NOTIFY ENGINEER AND HEALTH AGENCY TO VERIFY WATER TIGHTNESS.



ZONE: X
 MAP: 45-29-0
 FLOOD ZONE: MINIMUM HAZARD X
 Panel No. 250001 C0139 J (7/16/2014)
 PLAN REFERENCE: BOOK 321 PAGE 27
 BENCHMARK DATUM: STAKE ELEV 82.52'(NAVD 88)
 WIND EXPOSURE CATEGORY: C

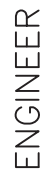
NOTE: THE PROPERTY LINES ARE COMPILED FROM SURVEYED SITE PLAN FOR EDWARD BLACK, 5 CORNHILL LANDING, TRLURO, MA BY OUTERMOST AND SURVEY, INC. DATED DECEMBER 1, 2023. IT SHOULD BE USED FOR NO PURPOSE OTHER THAN SEPTIC SYSTEM INSTALLATION

NOT TO SCALE



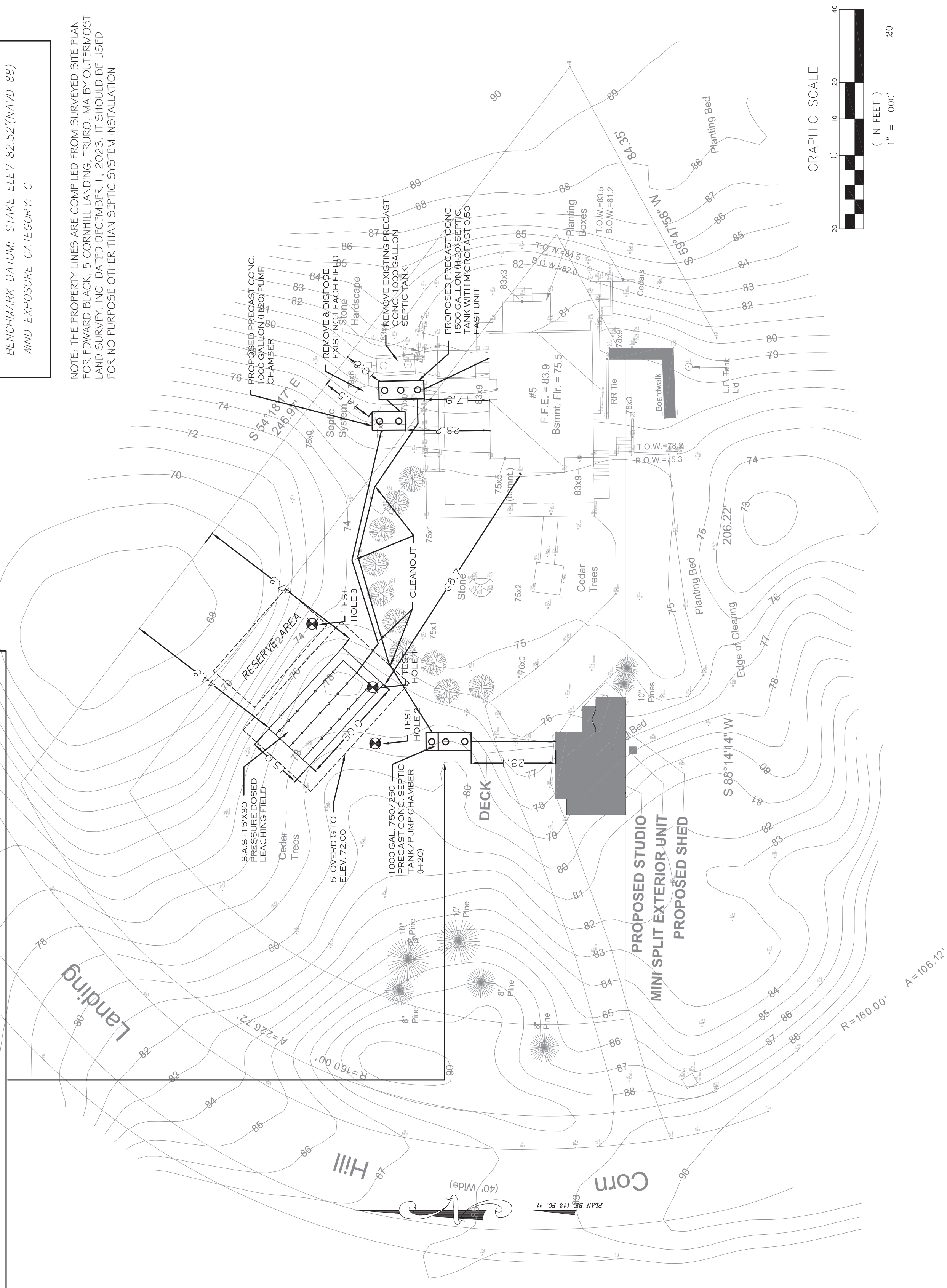
NOT TO SCALE

				DRAWN	CHECKED
DATE	DESCRIPTION				
REVISONS					
SEPTIC SYSTEM UPGRADE FOR LAMB & BLACK AT 5 CORN HILL ROAD IN TRURO					
SCALE: 1" = 20'			DATE: NOVEMBER 10, 2024.		
MACINNIS CONSULTING P.O. BOX 1182 EAST SANDWICH, MA 02537 (508) 274-2091					
DRAWN BY: SGM		24-951			
CHECKED BY: SGM					
SHEET 1 OF 2					

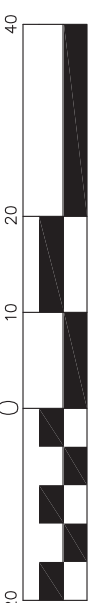


NOTES:

1. VERTICAL DATUM: BASEMENT CONC. FLR. ELEV = 83.9'
2. SEPTIC SYSTEM SHALL BE INSTALLED ACCORDING TO 310 CMR 15.00, (TITLE V) AND THE TOWN OF TRURO BOARD OF HEALTH REGULATIONS.
3. ALL PIPS SHALL BE 4" SCHEDULE 40 PVC
4. WHERE APPLICABLE THE DISTRIBUTION BOX SHALL BE WATER TESTED TO INSURE LEVELNESS AND EQUAL FLOW.
5. THE INSTALLER IS TO VERIFY THE LOCATION OF UTILITIES AND SEWER LINE ELEVATIONS PRIOR TO INSTALLATION.
6. SOIL ABOVE C LAYER (SHOWN ON SOIL LOGS) SHALL BE REMOVED AND REPLACED WITH CLEAN SAND ACCORDING TO MASS. LOCAL SPECIFICATIONS IN THE S.A.S. AREA.
7. EXCAVATION FOR AREA WHERE FILL IS REQUIRED SHALL EXTEND 5' Laterally BEYOND S.A.S.
8. SYSTEM IS NOT DESIGNED FOR GARBAGE GRINDER.
9. ALL PRE CAST UNITS ARE TO BE SET LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED. NATIVE GROUND WITH6" AGGREGATE SLOPE IS ADEQUATE.
10. MIN. PIPE SLOPE 1/8 IN/FT. 1/4 IN/FT PREFERRED.
11. UNLESS OTHERWISE SPECIFIED MANHOLE COVERS ARE TO BE WITHIN 9' OF FINISHED GRADE.
12. SEPTIC TANK TEES SHALL CONFORM TO MASS & LOCAL REGULATIONS.
13. ALL STONE IS TO BE DOUBLE WASHED ACCORDING TO MASS. & LOCAL REGULATIONS.
14. GROUND COVER OVER SYSTEM COMPONENTS SHALL NOT EXCEED 3 UNLESS COMPONENTS ARE H=20.
15. CONTRACTOR TO NOTIFY HEALTH AGENT AT TIME OF EXCAVATION TO VERIFY SOIL ABSORPTION MATERIAL IS SATISFACTORY.
16. CONTRACTOR TO NOTIFY HEALTH AGENT AT TIME OF EXCAVATION TO VERIFY 4 FEET OF SUITABLE MATERIAL BELOW SOIL ABSORPTION SYSTEM.

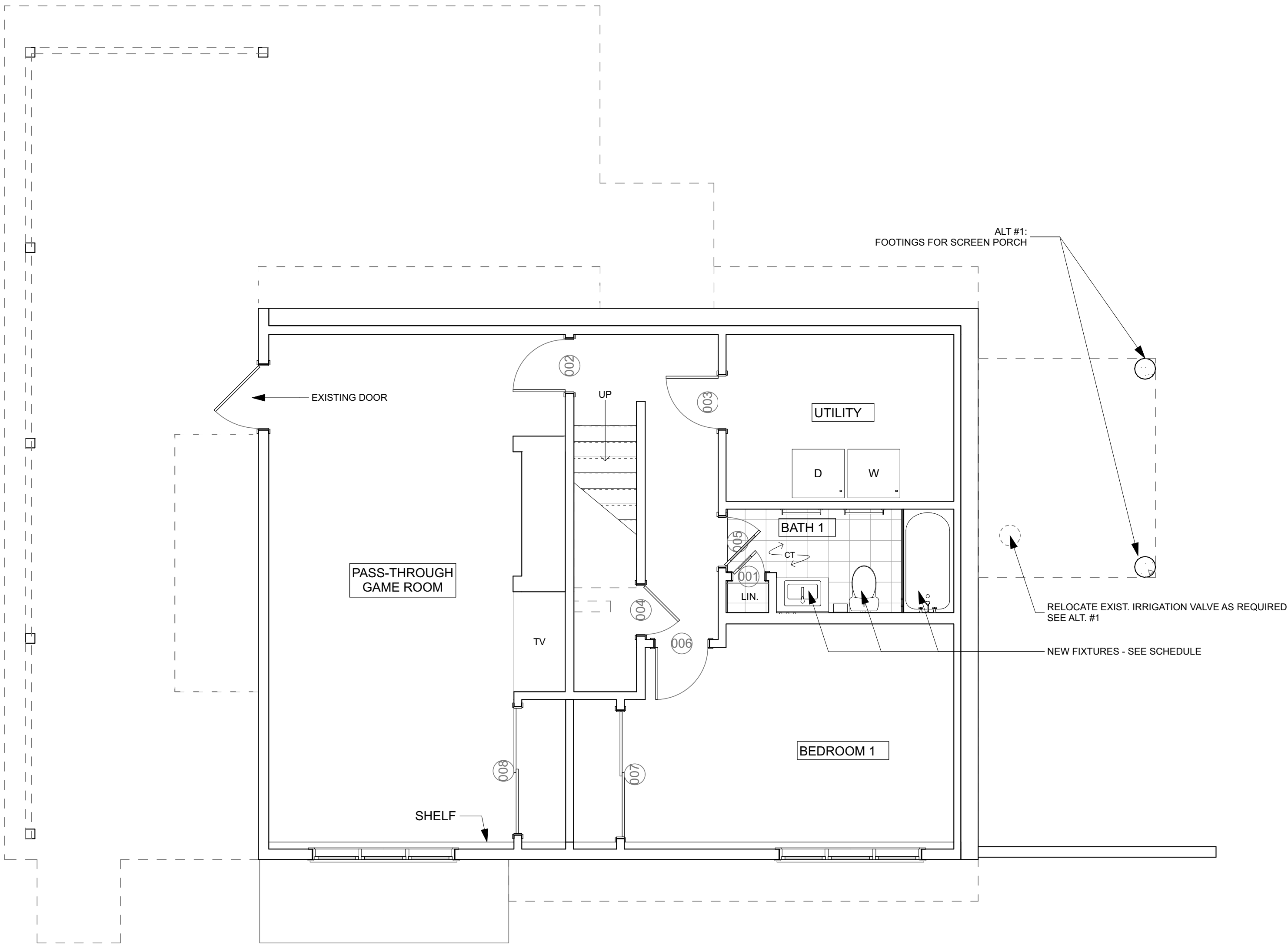


GRAPHIC SCALE

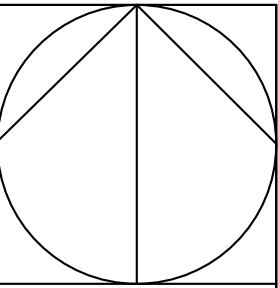


(IN FEET)

20



	NEW CONSTRUCTION
	EXISTING CONSTRUCTION
	NEW FOUNDATION
	EXISTING FOUNDATION
	DEMO
WALL LEGEND	



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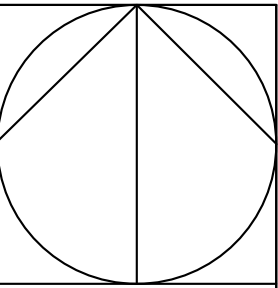
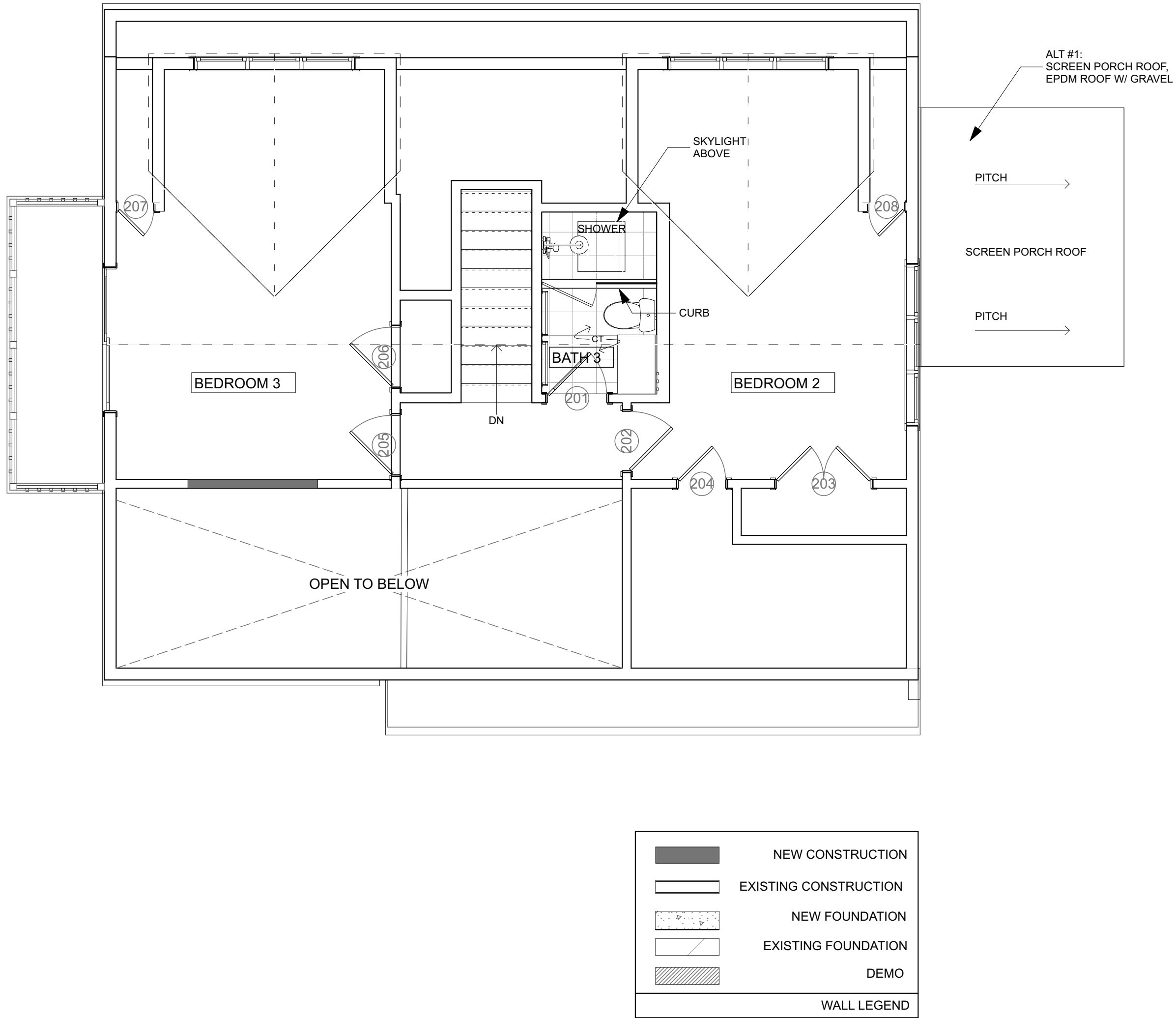
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Scale: As Noted

Date: 10.21.24

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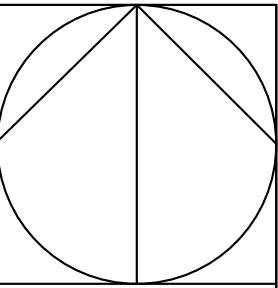
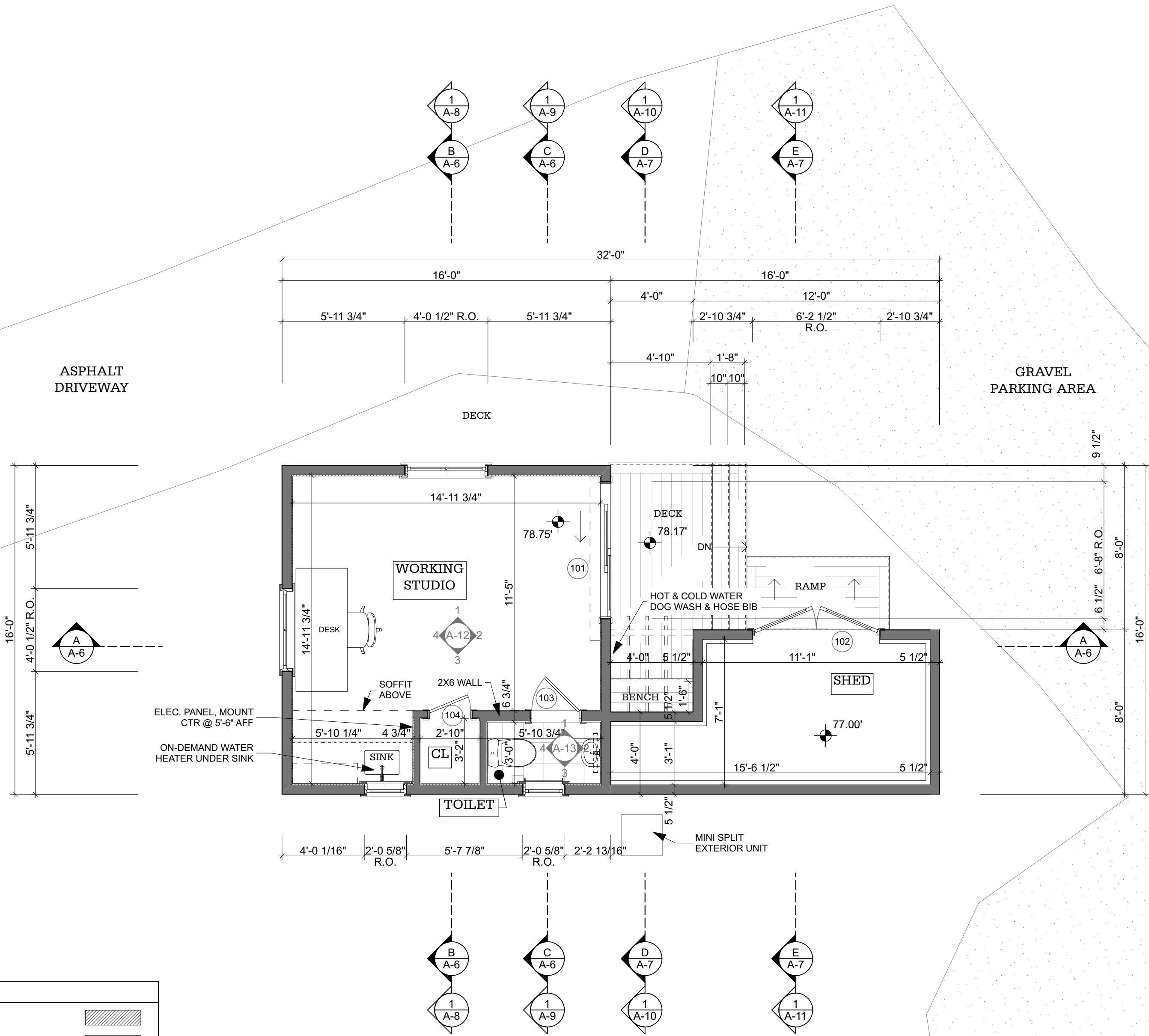
Title: SECOND FLOOR PLAN EXISTING

Scale: As Noted

Date: 10.21.24

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WALL LEGEND	
DEMO	
EXISTING FOUNDATION	
NEW FOUNDATION	
EXISTING CONSTRUCTION	
NEW CONSTRUCTION	



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Title: FLOOR PLAN
Scale: As Noted
Date: 10.21.24

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