



TOWNSEND BOARD OF HEALTH

272 Main Street
Townsend, Massachusetts 01469

Christopher Genoter, Chairman
Office (978) 597-1713

Christopher Nocella, Vice-Chairman

Linda Johansen, Clerk
Fax (978) 597-8135

Monday, June 22nd, 2020 at 6:00 p.m., EST

The Board of Health meeting is being held virtually in accordance with the Governor's Executive Order Suspending Certain Provisions of the Open Meeting Law, MGL c. 30A. s.20. Interested individuals can listen in and participate by phone by dialing the phone number below and using the provided access code.

Telephone Number: 1-717-275-8940

Access Code: 6602188

1 PRELIMINARIES

1.1 Roll Call

2 APPOINTMENT/HEARINGS

- 2.1 COVID-19 update/discussion
 - 2.1.1.1 Recycling Center Phase III Update
- 2.2 Littering Regulations Public Hearing
- 2.3 7 Worcester Road – Septic Update
- 2.4 77 Tyler Road – Deck construction discussion
- 2.5 507 Main St. – Septic Upgrade w/ LUA's
- 2.6 47 Edward Rd. – Septic Upgrade w/ LUA's & Local Variance(s)
- 2.7 299 Townsend Hill Rd. – Septic New Construction
- 2.8 29 Main St. – Proposed change in use/approval of alternative flow

3 WORK SESSION

- 3.1 Invoices
- 3.2 Minutes of March, April and May 2020
- 3.3 Weston & Sampson Landfill Engineering Contract Renewal
- 3.4 Enforcement on curbside trash and recycling update

4 ADJOURNMENT

2.2

Carla Walter

From: Kate Feodoroff <kate@mtclawyers.com>
Sent: Thursday, June 18, 2020 2:53 PM
To: Carla Hitzenbuhler
Cc: Adam J. Costa
Subject: RE: Townsend Contract
Attachments: 2019 Littering Regulations Draft kmf 6.18.20.doc; Haverhill Litter Regulations.pdf

Dear Carla:

Adam forwarded me your litter regulations. I have made changes and comments for the Board's consideration. Further, I think the definitions are a bit cumbersome. Do we need to define all of those types of trash? See the Haverhill definitions, attached, which I like. Also, this doesn't address the scavenging issue. Is that something the Board wanted to include? Did you want a comprehensive, littering, recycling trash regulation?

Let me know if you need anything else or would like to discuss further.

Kate



Katherine M. Feodoroff
Mead, Talerman & Costa, LLC
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Phone 774.993.5002
Mobile 508.415.1021

kate@mtclawyers.com · www.mtclawyers.com

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If you have received the above transmittal in error, please delete the message and any attachment(s) hereto from your e-mail system and notify us immediately.

♻️ Think before you print.

OFFICE OF THE BOARD OF HEALTH
272 Main Street
Townsend, Massachusetts 01469

Linda Johansen, Clerk
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LITTERING REGULATIONS

A. AUTHORITY

This Regulation is pursuant to the authority granted to the Townsend Board of Health pursuant to Massachusetts General Laws Chapter 111, Section 31, which provides that "Boards of Health may make reasonable health regulations," and Massachusetts General Laws Chapter 111, Section 155.

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A.B. PURPOSE

These regulations are adopted in the interest of and for the preservation of the public health of the citizens of the Town of Townsend.

B.C. DEFINITIONS

For the purpose of this regulation, the following words and phrases shall have the meanings ascribed to them by this section.

GARBAGE: Organic ~~waterwaste~~, including vegetable and animal waste scheduled for curbside pick-up. Residents are encouraged to compost vegetable matter.

Commented [KF1]: This portion doesn't really need to be in the definitions section.

HOUSE OFFAL: Offal (Variety Meats) is the same name for internal organs and entrails of a butchered animal. The word does not refer to a particular list of edible organs, which varies by culture and region, but includes most internal organs ~~excluding and excludes~~ muscle and bone.

HAZARDOUS WASTE: Included, but not limited to: Mothballs, art & hobby supplies (glue), photo chemicals, rubber cement, floor and furniture polishes, fluorescent bulbs, nail polish remover, disinfectants (household, toilet, window and drain cleaners), upholstery, rug and floor cleaners, plant chemicals, spot removers, lighter fluid, silver/metal polishes, oven cleaners, rodent fillers, antifreeze, waxes and polishes, motor oil and fluids, oil based paint, solvents, lead based paints and stains, paint removers and thinners, weed killers, pool chemicals, driveway sealers, flea collars and control products and poisons. See www.DevensHHW.com for a more detailed list.

Commented [KF2]: I will defer to you to determine if these are to be considered "Hazardous" unless you want me to base this on some other type of legal definition. If so, let me know.

Commented [KF3]: Can't find this webpage?

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LITTER: ~~refuse, garbage, rubbish, or any unwanted waste materials in any amount intended for disposal by any person or persons. It may consist of animal of vegetable waste, paper, cellophane, rubber, glass, metal, plastic and other like materials.~~

OFFENSIVE WASTE: ~~Human or animal medical waste.~~ Also known as "human hygiene" and "sanpro" waste. ~~Therefore, in addition to the human and animal healthcare waste, any item that is stained or contaminated with any bodily fluid that is non-infectious and doesn't contain medications or chemicals classed as offensive.~~

Commented [KF4]: Wouldn't you rather call this Mdicl Waste?

Commented [KF5]: Another definition of medical waste could be "any solid waste that is generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals."

Commented [KF6]: What would this be? THis is not defined

Commented [KF7]: This could include sanitary products like maxipads... is this your intention?

SWILL: Kitchen refuse and scraps of waste food mixed with water.

TRASH: All non-organic, non-hazardous household waste suitable for curbside pick-up and landfilling.

YARD WASTE: Leaves, pine needles, lawn clippings, garden waste, weeds and hedge clippings less than 6" diameter are allowed to be disposed of at the Recycling Center. The curbside trash and recycling program does not accept yard waste.

Commented [KF8]:

Commented [KF9R8]: This should be in the regulations, not the definition section.

C.D. APPLICABILITY PROHIBITIONS AND REGULATIONS

No person shall throw, deposit, discharge or leave, or cause to be thrown, discharged, deposited, or left, any swill, hazardous waste, garbage, trash, house offal, yard waste, furniture of any kind or offensive waste of any kind upon any public or private way, property of another, vacant lot, public place, street gutter, storm drain or body of water except in a receptacle labeled and designated for such a purpose.

Persons placing litter in public receptacles shall do so in a manner as to prevent it from carried away or deposited by the elements, such as wind, upon any street, sidewalk or other public place or upon private property.

No household garbage or trash shall be discarded at any public trash receptacle.

Commented [KF10]: What do you think of this addition?

The owner or person in control of any private property shall at all times maintain his/her premise free of litter so that the same does not constitute a danger to public health, safety and welfare.

Commented [KF11]: same Comment

D.E. NON-CRIMINAL DISPOSITION

Whoever violates any provision of this regulation may be penalized by the non-criminal method of disposition as provide in the Massachusetts General Laws, Chapter 40, Section 21D or by filing a criminal complaint at the appropriate venue.

E.F. SEPARATE VOIATIONS

Each day any violation exists shall be deemed to be a separate offense at \$100 first offensive, \$200 second offense and \$300 third offense. Additional costs subject assessment for removal/cleanup can be added.

F.G. ENFORCEMENT

Enforcement of this regulation shall be by the Townsend Board of Health or their designated agent(s).

G.H. EXEMPTIONS

This regulation shall not prohibit property owners from offering furniture or equipment for others to take or purchased. Said furniture or equipment to be deposited and is displayed on the edge of the private property near the public side walk; provided however, that said furniture or equipment may not be left for longer than one (1) week, at which point the property owner shall dispose of said furniture or equipment in accordance with this regulation.

I. SEVERABILITY

If any provision of this regulation is declared by a court of competent jurisdiction to be invalid or not enforceable, the other provisions shall not be affected thereby, but shall continue in full force and effect.

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H.J. EFFECTIVE DATE

This regulation was passed on <>. They will take effective <one year from date regulation is passed>.

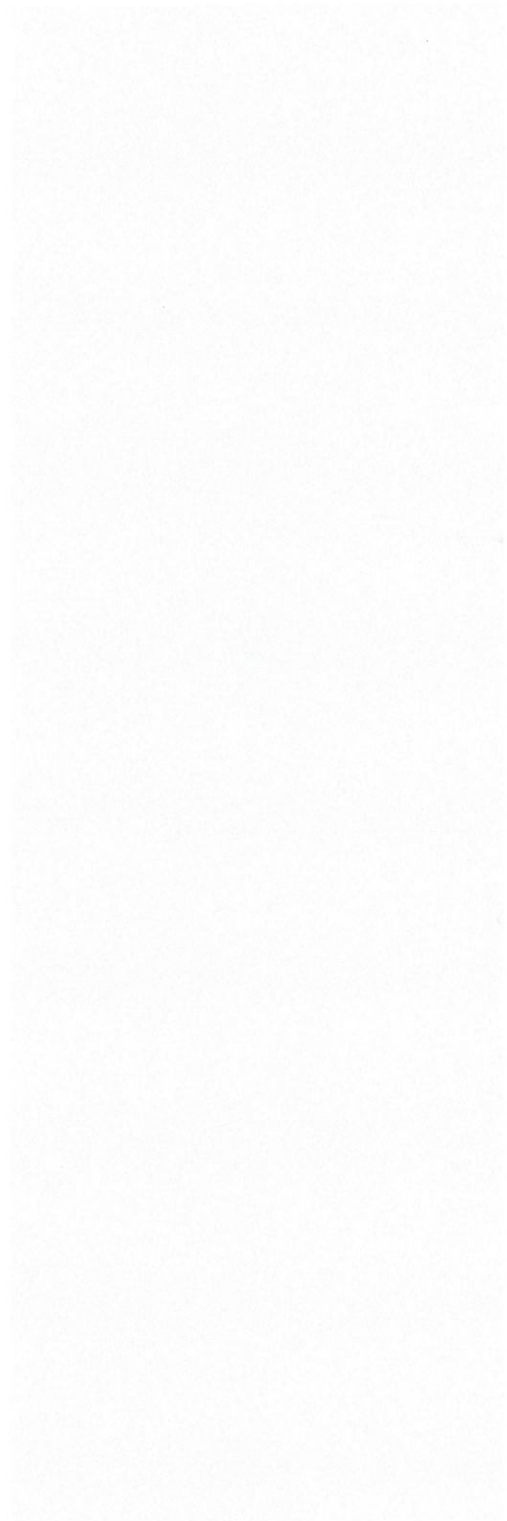
Date: _____ Chairman, Christopher Genoter _____

Vice-Chair, Christopher Nocella _____

Clerk, Linda Johansen _____

A true copy attest: _____

Cc: Nashoba Board of Health
DEP Worcester, Boston
Town Clerk



RULES AND REGULATIONS REGARDING LITTER, GARBAGE, AND REFUSE

The Board of Health, City of Haverhill, in accordance with and under the authority granted by Chapter III, Section 31B of the Massachusetts General Laws, promulgated and adopted the following regulation at its meeting on August 11, 1998 and amended on October 15, 2002 to take effect March 1, 2003, amended on July 13, 2010, amended on August 24, 2010 to take effect October 13, 2010:

Section 1: A regulation relative to the discharge and control of litter as well as the safe and sanitary storage and disposal of refuse in the City of Haverhill.

Section 2: Definitions

Unless this context specifically indicates otherwise, the meaning of terms used in this Regulation shall be as follows:

- A. **Litter** – shall mean refuse, garbage, rubbish, or any unwanted waste materials in any amount intended for disposal by any person or persons. It may consist of animal or vegetable waste, paper, cellophane, rubber, glass, metal, plastic and other like materials.
- B. **Refuse** – shall mean ordinary refuse which is unwanted, discarded, worthless materials or waste resulting from natural community activities, and consists of the following:
 1. **Garbage** – is the animal and vegetable waste resulting from the handling, preparation and cooking of food for human consumption.
 2. **Rubbish** – is miscellaneous refuse such as paper, rags, wood, excelsior, rubber, leather, glass, crockery, tin cans, metallic substances, and like materials.
- C. **Commercial Waste** – consists of any unusual wastes that accumulate on the premises of any commercial enterprise operating for profit not covered by the definition of refuse. Tires, mufflers, tailpipes, or other parts of any motor vehicle generated by vehicular repair shops are considered as Commercial Waste. Discarded building products, useable or non-useable generated by any commercial service company in the construction, alteration or repair of any structure (e.g., brick, earth, plaster, lathing, roofing materials, lumber, plumbing fixtures, etc.) are considered as Commercial Wastes. Such wastes shall not be collected by the City of Haverhill.
- D. **Industrial Wastes** – are waste materials, products or by-products from factories, processing plants and other manufacturing enterprises including any food processing wastes, highly flammable material or otherwise dangerous and/or hazardous wastes. Such wastes shall not be collected by the City of Haverhill.
- E. **Yard Waste** – vegetation that includes grass clippings, leaves, twigs, branches, brush (including Christmas trees), weeds, and all organic materials that can be composted, but not including railroad ties or other yard related material that has been treated with chemical preservatives.
- F. **Owner** – Shall mean any person, proprietary firm or corporation holding title to any real property within the City.
- G. **Occupant** – shall mean any person who rents or otherwise occupies for any purpose any part or parcel or real property in the City, whether or not a landlord-tenant agreement exists.
- H. **Littering** – shall mean the act of disposal of litter as defined above.
- I. **Retail** – The selling of goods in small quantities; as opposed to wholesale. Of, pertaining to, or concerned in the sale of goods in small quantities or parcels. Sell directly to the ultimate consumer.

Section 3: Litter

- A. The owner or person in control of any private property shall at all times maintain his premise free of litter so that the same does not constitute a danger to public health, safety and welfare.
- B. No person shall throw or deposit litter in or upon any street, sidewalk or other public place in the City.
- C. No person shall deposit litter on any occupied private property within the City, in such a manner that it tends to create a danger to public health, safety and welfare, whether owned by such person or not, except the owner or person in control of private property may maintain private receptacles for collection, as authorized by this article.

Section 4: Unlawful use of litter receptacles:

No person shall deposit household trash in public litter receptacles.

Section 5: Residential dwelling units

- A. The owner of any dwelling that contains three or more dwelling units, and the owner of any rooming house, shall be responsible for providing as many receptacles for the storage of garbage and rubbish as are sufficient to contain the accumulation before final collection or ultimate disposal and shall so locate them to be convenient to the tenant (s) and that no objectionable odors enter the dwelling, or abutting dwellings.
- B. Outside household refuse containers shall be either galvanized metal or durable plastic not to exceed 35 gallons with appropriate tight fitting covers or any other Health Department approved containers. Securely tied disposable plastic bags may not be placed outdoors until day of collection.
- C. The amount taken from each dwelling unit shall not exceed three (3) thirty five (35) gallon trash bags/containers. The maximum amount to be collected from each residential lot shall not exceed twenty four (24) thirty five (35) gallon trash bags/containers. Residences with more than the allowed amount will be required to provide private pick up. Any other household item not excessive in bulk or greater than 50 lbs in weight, which can be handled by two men, will be accepted provided it is not a Department of Environmental Protection banned waste. One item per week.
- D. The contractor **WILL NOT** accept refrigerators, stoves, etc., air conditioners, rocks, stones, turf, soil, leaves, grass clippings, electronics, yard waste, large quantities of farm waste, iron ranges, or heating stoves, automobile bodies, engines, or other heavy parts, commercial or industrial waste, wood, construction debris or rubbish in cartons or paper bags or any other banned items.
- E. Collection in residential areas shall be conducted between 6:00 a.m. and 4:00 p.m. unless waived by the Board of Health, or its agent, for cause.
- F. Trash/recycling must not be placed at the curb before 4:00 p.m. on the day before collection and must be on the curb by 6:00 a.m. on the scheduled collection day in order to be picked up.
- G. Refuse containers must be returned to their proper storage area no later than 11:59 p.m. the day of collection.
- H. The resident is responsible for picking up loose trash from the sidewalk after collection.
- I. Residents shall separate their recyclable materials for bi-weekly curbside collection. Residents can place their recyclables out for collection in open containers, boxes, or paper bags clearly marked recycling.
- J. The Board of Health or its agent (s) has the authority to order a dumpster or private pick up if it is determined that a property is generating more trash than is allowed within these regulations.

Section 6: Leaf and Yard Waste

- A. Yard waste shall not be mixed with any household waste.
- B. Yard waste shall not be set out with regular trash for collection. It may be properly composted on the property on which it was generated or it may be transported to the Municipal Composting Drop-Off Site.
- C. Yard waste delivered to the Municipal Composting Drop-Off Site shall have any bag or container removed, unless it is contained in an approved biodegradable bag.

Section 7: Mercantile Areas

- A. MSW (municipal solid waste) and single stream recyclables will be collected once a week from properties located in the mercantile areas on Fridays only. Only one (1) 96-gallon container or 3 – 35 gallon containers will be allowed per building for municipal solid waste. Refuse containers shall be placed at the front of the property for collection. Owners of buildings generating more than the allotted amount of trash shall be responsible for providing dumpsters or private collection and disposal services for their refuse.
- B. The Board of Health or its agent (s) has the authority to order a dumpster or private pick up if it is determined that a property is generating more trash than is allowed within these regulations.
- C. Food establishments **WILL NOT** be collected unless a variance is granted by the Board of Health.
- D. Ninety six (96) gallon containers for MSW only are allowed to be used in the Mercantile Areas.

Section 8: Single Stream Recycling

- A. The city shall offer single stream curbside recycling services city wide on existing trash routes. Commercial businesses and residential units in the mercantile areas which will be collected once a week on Fridays.

Section 9: Scavenging of trash

- A. No person shall disturb, remove or collect any rubbish from any premises without consent of the owner thereof, nor any wastes placed out for collection, upon any sidewalk or way, except employees or agents of the City.
- B. No person shall interfere in any manner with the recyclables or the containers used for the accumulation of recyclables or remove any such container from the location where it shall have been placed by the owner or person lawfully in control of the premises, nor shall any such person remove the contents from any such container or interfere in any way with said container.
- C. This regulation is not meant to prohibit anyone from taking individual items placed at the curb for collection, i.e. chairs, tables, furniture, etc. It is intended to prevent disturbance of the contents of trash which is contained, i.e. barrels, bags, etc.

Section 10: Penalties

- A. Any person (s) who fails to comply with this regulation shall be fined not less than fifty (\$50.00) nor more than three hundred dollars (\$300.00) for each offense. Each day's failure to comply with this regulation shall constitute a separate offense.

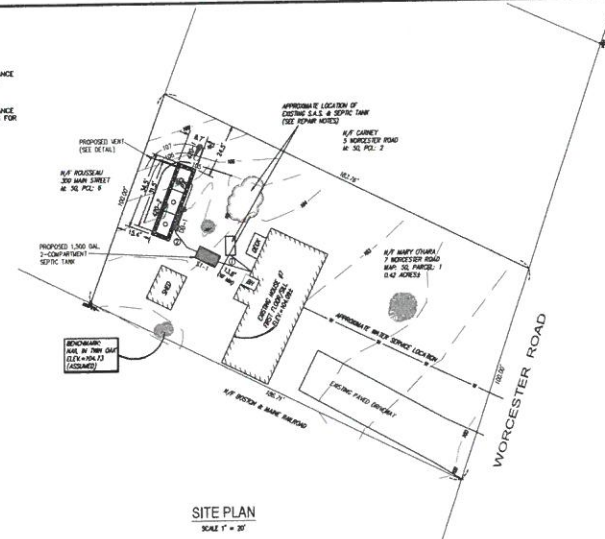
2.3



SPECIAL APPROVALS REQUIRED:

LOCAL JURISDICTIONS:
 THE SEWAGE DISPOSAL SYSTEM IS DESIGNED IN ACCORDANCE WITH THE TOWN OF TOWNSEND BOARD OF HEALTH REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.

STATE JURISDICTIONS:
 THE SEWAGE DISPOSAL SYSTEM IS DESIGNED IN ACCORDANCE WITH THE STATE OF MASSACHUSETTS TITLE V REGULATORY REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.



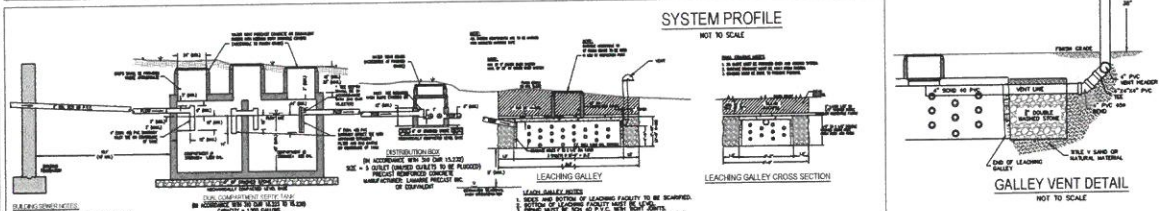
CALCULATIONS:

SEWERAGE:
 DESIGN FLOW = 1.81 GPM
 DESIGN FLOW RATE = 0.075 GPD
 DESIGN FLOW RATE = 0.075 GPD
 DESIGN FLOW RATE = 0.075 GPD
 DESIGN FLOW RATE = 0.075 GPD

SOIL CHARACTERISTICS:
 DESIGN INfiltration = 0.018 in./hr.
 DESIGN INFILTRATION = 0.018 in./hr.
 DESIGN INFILTRATION = 0.018 in./hr.
 DESIGN INFILTRATION = 0.018 in./hr.

SCHEDULE OF ELEVATIONS:

ITEM	DESCRIPTION	ELEVATION (FEET)
1	PROPOSED SEWER MAIN (SEE DETAIL)	111.5
2	PROPOSED 1,000 GAL. 2-COMPARTMENT SEPTIC TANK	111.5
3	EXISTING GROUND SURFACE	111.5
4	PROPOSED LEACHING GALLEY	111.5
5	PROPOSED LEACHING GALLEY CROSS SECTION	111.5
6	PROPOSED GALLEY VENT DETAIL	111.5



GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF TOWNSEND BOARD OF HEALTH REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
- THE SEWERAGE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE STATE OF MASSACHUSETTS TITLE V REGULATORY REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
- THE SEWERAGE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE TOWN OF TOWNSEND BOARD OF HEALTH REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
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CONSTRUCTION NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF TOWNSEND BOARD OF HEALTH REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
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REPAIR NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF TOWNSEND BOARD OF HEALTH REQUIREMENTS FOR THE SURFACE DISPOSAL OF SANITARY SEWAGE.
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SOIL TEST DATA

NO.	DEPTH (FEET)	TYPE	MOISTURE (%)	PLASTICITY (%)	UNSATURATED WAT. CAP. (%)	PERCENT FINE SAND (%)	PERCENT SILT (%)	PERCENT CLAY (%)	PERCENT ORGANIC MATTER (%)
1	0 - 1	CLAY	18	30	30	10	60	30	0
2	1 - 2	CLAY	18	30	30	10	60	30	0
3	2 - 3	CLAY	18	30	30	10	60	30	0
4	3 - 4	CLAY	18	30	30	10	60	30	0
5	4 - 5	CLAY	18	30	30	10	60	30	0
6	5 - 6	CLAY	18	30	30	10	60	30	0

LEGEND

1	PROPOSED SEWER MAIN	12" Ø PVC
2	PROPOSED 1,000 GAL. 2-COMPARTMENT SEPTIC TANK	12" Ø CONCRETE
3	PROPOSED LEACHING GALLEY	12" Ø CONCRETE
4	PROPOSED LEACHING GALLEY CROSS SECTION	12" Ø CONCRETE
5	PROPOSED GALLEY VENT DETAIL	12" Ø CONCRETE

PREPARED BY: **DUCHARME & DILLIS Civil Design Group, Inc.**
 1083 MAIN STREET, P.O. BOX 428 BOSTON, MASSACHUSETTS 02116
 PHONE: (617) 778-6091 FAX: (617) 778-0290

OWNER: MARY JANE O'HARA
 7 WORCESTER ROAD
 TOWNSEND, MASSACHUSETTS

APPLICANT: MARY JANE O'HARA
 7 WORCESTER ROAD
 TOWNSEND, MASSACHUSETTS

SCALE: 1" = 20' R.L.

DATE: 4/23/2020

DESIGN BY: N.A.

DRAWN BY: N.A.

CHECKED BY: C.D.

SEWAGE DISPOSAL SYSTEM DESIGN
 7 WORCESTER ROAD (M. 50, PCL. 1)
 TOWNSEND, MASSACHUSETTS

JOB NO.: 6391

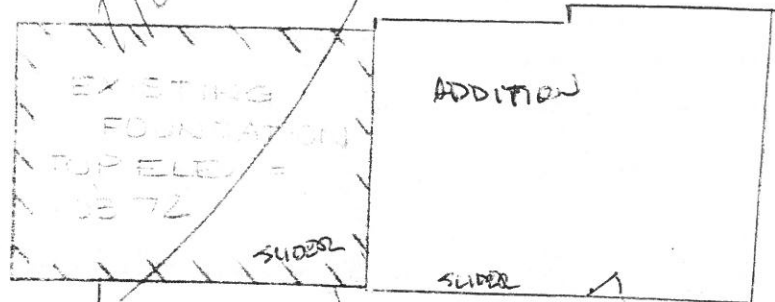
DRAWING NO.: 6391-025

SHEET NO.: 1 OF 1

2.4
77 Tyler Rd
PROPOSED WELL

SET PK 10' OAK
ELEV. 95.29

House



6' DECK



EXISTING BED (SHADED)

PK 10' OAK
ELEV. 102.32

1" = 20'
3/8" = 7.5'

N/F
JBA HEATHY

HOUSE

DECK FRAMING PLAN

BMAC Residence

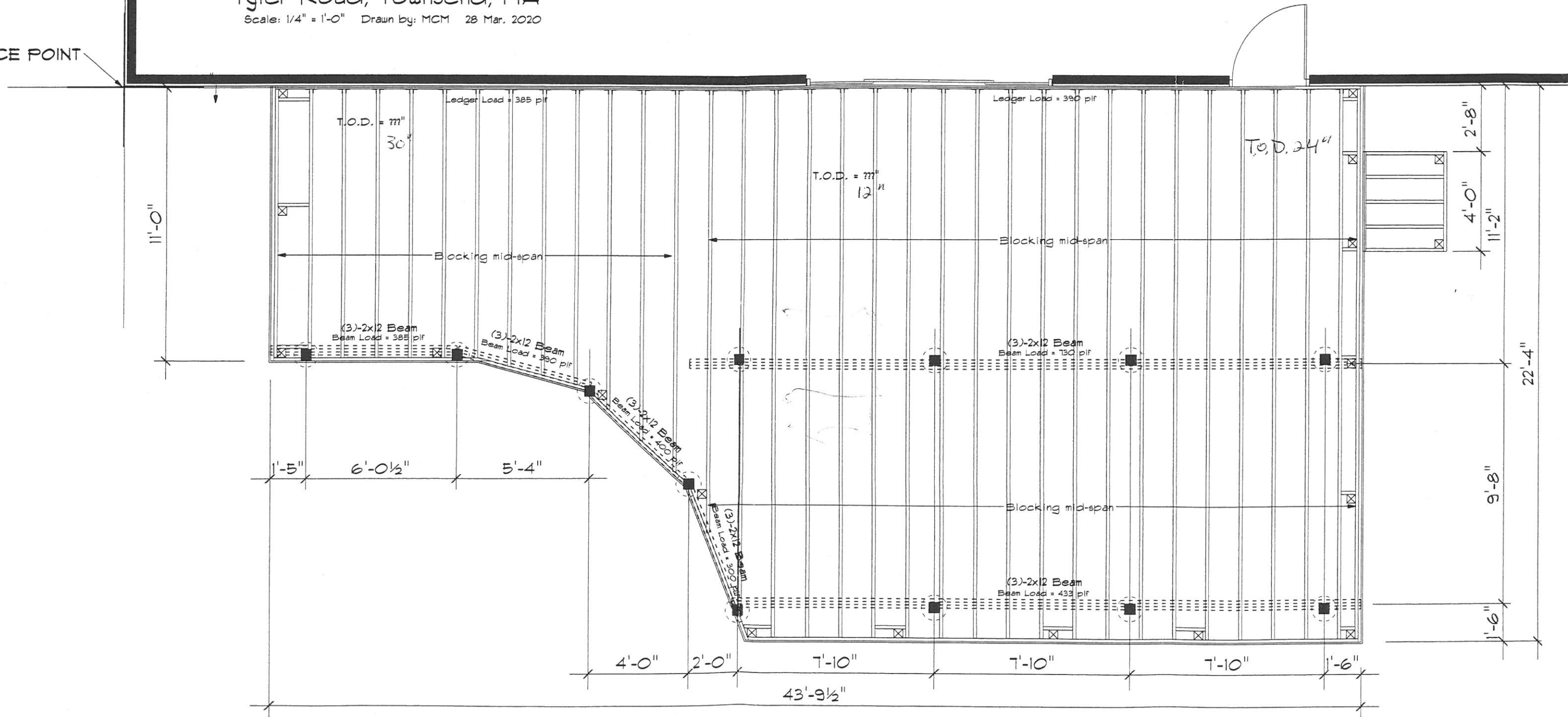
Tyler Road, Townsend, MA

Scale: 1/4" = 1'-0" Drawn by: MCM 28 Mar. 2020

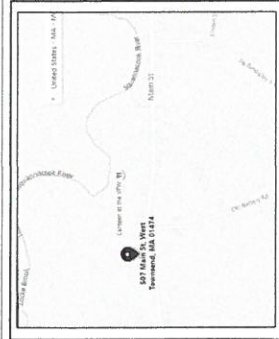
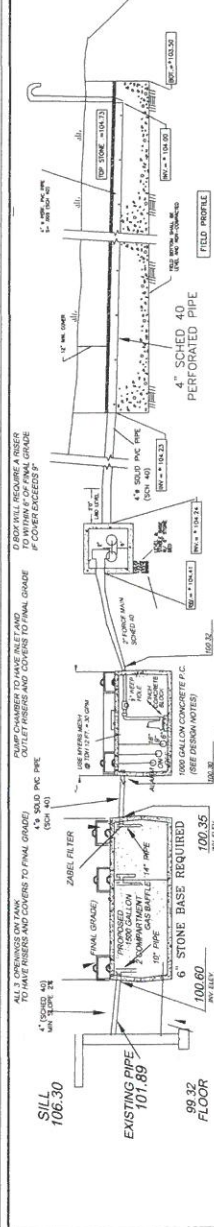
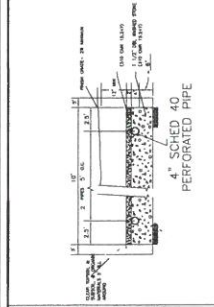
Framing Notes

- Live Load = 60 psf
- Dead Load = 10 psf
- All framing is #1 PT SYP
- Joists are 2x8, 16" o/c
- Beams are as noted
- Columns are 6x6, notched and bolted to the beams
- Rail posts are inset

REFERENCE POINT



2-5



GENERAL NOTES

- THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY OR ENGINEERED SITE PLAN. BOUNDARY LINES ON THIS PLAN WERE DEVELOPED GRAPHICALLY AND THEIR CONSTRUCTION IS INTENDED TO BE USED FOR THE CONSTRUCTION OF THE SEPTIC SYSTEM. IT IS THE RESPONSIBILITY OF THE OWNER TO OBTAIN A SURVEY TO VERIFY THE ACCURACY OF THESE PLANS AND THE APPROPRIATE FIELD CONDITIONS TO BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION. THERE ARE NO METRANETS WITHIN 50' OF PROPOSED SOIL ABSORPTION SYSTEM. THERE ARE NO WELLS WITHIN 100' TO PROPOSED SYSTEM.
- ALL WORK IS TO COMPLY WITH THE MASSACHUSETTS 310 CMR (TITLE 8A) AND THE REGULATIONS OF THE TOWNSEND BOARD OF HEALTH AND CONSERVATION COMMISSION.
- THIS SYSTEM IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL.
- IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANYWAY, THE DESIGNER AND THE APPROVING AUTHORITIES SHALL BE NOTIFIED IN WRITING BEFORE CONSTRUCTION BEGINS.

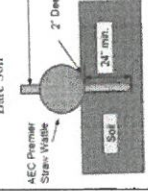
ELEVATIONS

FLOOR HOUSE	99.32
TANK IN	100.60
PUMP OUT	100.30
PUMP IN	96.65
DECK IN	104.41
PIPES START	104.23
BED BOTTOM	103.50
TOP STONE	104.73
COVER	105.73

CONSTRUCTION SCHEDULE

- LOT TO BE SURVEYED
- ALL WORKS TO BE IN COMPLIANCE WITH THE ORDER
- INSTALL WATTLES AND HAVE THEM INSPECTED BY CONSERVATION COMMISSION AGENT AND APPROVED PRIOR TO STARTING WORK
- REMOVE PAVEMENT REMOVE GARAGE
- INSTALL TANK AND PUMP CHAMBER
- BUILD RETAINING WALL ADD FILL TO BED BOTTOM
- INSTALL SEPTIC SYSTEM
- AND RECONSTRUCT DRIVEWAY AFTER INSPECTIONS

WATTLE Cross Section On Bare Soil



TEST PIT LOG

USING 3" TUBING, 10" DIA. TUBING, 10" DIA. TUBING
ELEVATION 102.00
DATE 3/27/2020

0-9" A 10YR 2/3 SANDY LOAM
9"-14" B 10YR 4/6 SANDY LOAM
14"-38" C 1 2.9Y/4 FINE MED SAND
38"-74" D 2 2.9Y/6 MED TO COARSE
36" WEEP 30" OBSERVED
44" WEEP 48" OBSERVED

TEST PIT LOG

ELEVATION 103.90
SHIRT ELEV 101.40
DATE 3/27/2020

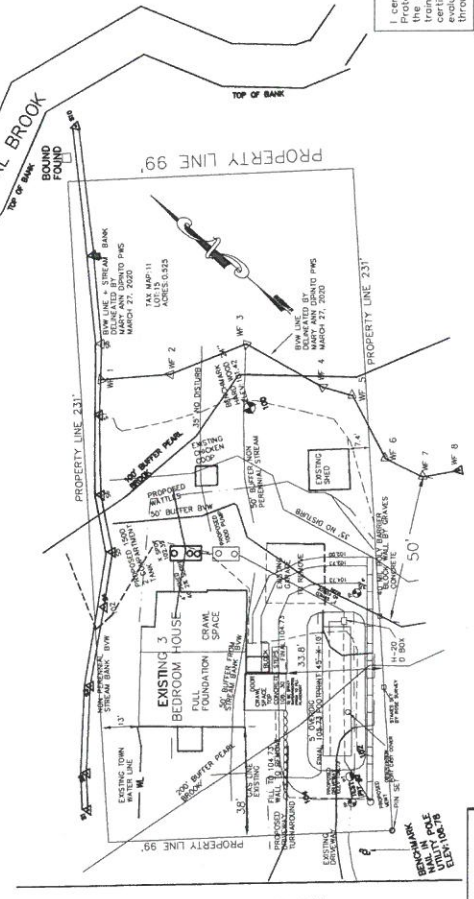
0-7" FILL
7"-13" 10YR 2/3 SANDY LOAM
13"-20" 10YR 5/6 SANDY LOAM
20"-83" 2.9Y/4 MED SAND
SHIRT 30"
PERC TEST 34 DEEP
PERC 1 MIN/INCH

SOIL CERTIFICATION

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.07 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required procedures. I further certify that the results of my soil evaluation, as indicated on the attached soil evaluation form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

DOUGLAS J. SMITH, R.S.#1155
EVALUATOR, SEE 2267
I PASSED THE SOIL EVALUATOR TEST NOV 11, 1999

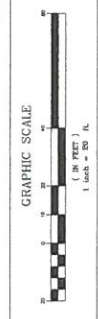
SEPTIC DESIGN AND CONSERVATION
NOTICE OF INTENT
DIANE AMADON
507 MAIN STREET
WEST TOWNSEND MA 01474
REVISED MAY 13, 2020
APRIL 8, 2020 TAX MAP 11, LOT 15



LEGEND

EXISTING PIPE	---
PROPOSED PIPE	---
PROPERTY LINE	---
BOUNDARY	---
EXISTING FOUNDATION	---
PROPOSED FOUNDATION	---
EXISTING DRIVEWAY	---
PROPOSED DRIVEWAY	---
EXISTING WALKWAY	---
PROPOSED WALKWAY	---
EXISTING CURB	---
PROPOSED CURB	---
EXISTING DRIVEWAY	---
PROPOSED DRIVEWAY	---
EXISTING WALKWAY	---
PROPOSED WALKWAY	---
EXISTING CURB	---
PROPOSED CURB	---

GRAPHIC SCALE



REVISION MAY 13, 2020

ALL PIPES TO BE SCHED 40 INCLUDING VENT MANIFOLD
ALL 3" COVERS ON TANK TO BE AT FINAL GRADE
NEW DRIVEWAY ELEVATION PER TAX MAP 11, LOT 15
WATERPROOFING REQUIRED AT CHAWL SPACE PRIOR TO PLACEMENT OF FILL

REVISION JUNE 20, 2020

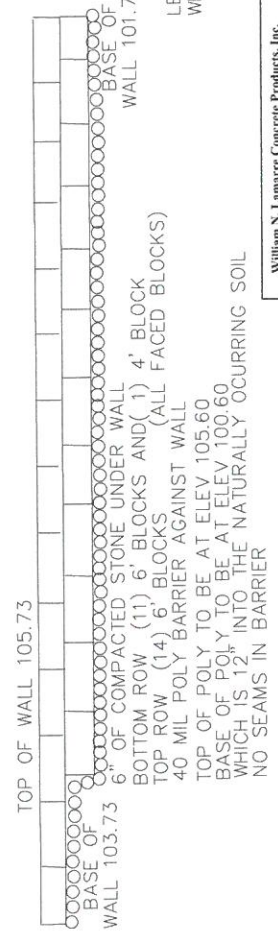
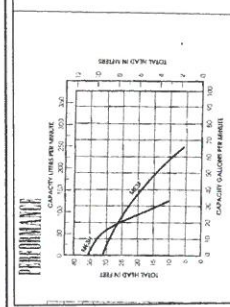
ADD VARIANCE FOR SEPTIC TANK WITHIN 25' TO BVW

OWNERS INFORMATION

OWNER: DIANE AMADON 20 DUDLEY RD APT 106 TOWNSEND MA 01469
HOME PHONE 978.597.8954 CELL 987.790.0801 AMADONLADY@COMCAST.NET
TAX MAP 11 LOT 15
DEED REFERENCE BOOK 11698 PAGE 18 TOTAL LAND SIZE IS 0.525 ACRES

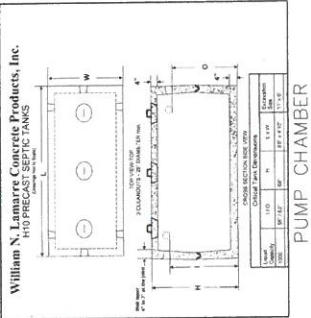
LOCAL UPGRADE APPROVAL REQUESTED
 310 CMR 15.405 (1) (b) (e) A REDUCTION IN THE 25' SETBACK REQUIRED BETWEEN THE SEPTIC TANK AND WETLANDS PER MINIMUM DISTANCES 310CMR 15.211 ACTUAL DISTANCE IS 20'. THIS WILL ALLOW SEWER PIPE TO ENTER SEPTIC TANK WITHOUT BENDS OR ELBOWS

- PUMP DESIGN NOTES & SPECIFICATIONS**
- PUMP CAPACITY REQUIRED: 30 GPM @ 12 FT. (TOTAL DYNAMIC HEAD).
 - PUMP LINE REQUIRED: 2" SCHED 40 PVC PIPE WITH 2" TEE IN D BOX INLET.
 - PUMP RECOMMENDED: WATERS MESH, 0.5" MESH, 1.5" W/ 0.5" MESH. FLOAT TO BE SET AT 6" ABOVE BOTTOM OF PUMP CHAMBER. ON FLOAT TO BE SET AT 10" ABOVE BOTTOM OF PUMP CHAMBER. ALARM FLOAT TO BE SET AT 16" ABOVE BOTTOM OF PUMP CHAMBER.
 - WITH A RUN TIME OF APPROXIMATELY 2.75 MINUTES. (SUPPLIER - LAMARRE CONCRETE.)
 - PUMP CHAMBER TO BE 1000 GALLON BY LAMARRE WITH MANHOLE COVER TO GRADE OVER PUMP AND SWITCHES.
 - PUMP CHAMBER SHALL BE WATER TIGHT.
 - PUMP CHAMBER CLEANED OF SEDIMENTS AT THE TIME OF SEPTIC TANK PUMPING.
 - THE PUMP SHALL INCLUDE A WATERPROOF JUNCTION BOX OUTSIDE OF PUMP CHAMBER.



LOCAL UPGRADE APPROVAL REQUESTED
 310 CMR 15.405 (1) (j) A REDUCTION IN THE 12" SEPARATION REQUIRED BETWEEN THE INLET AND OUTLET TEES AND HIGH GROUNDWATER PROVIDED TO PUMP INLET AND 6" TO PUMP OUTLET. NOTE TANK AND PUMP HAVE RUBBER BOOTS AT PIPE PENETRATIONS
 TOWNSEND BOARD OF HEALTH VARIANCE REQUEST
 LEACHING FACILITY TO BE 100' FROM WETLAND PROVIDED DISTANCE IS 58'

LOCAL UPGRADE APPROVAL REQUESTED
 310 CMR 15.405 (1) (n) A REDUCTION IN THE 5' SETBACK REQUIRED BETWEEN THE PROPERTY LINE AND THE SOIL ABSORPTION SYSTEM AND HIGH GROUNDWATER. REQUESTING A 12' REDUCTION RESULTING IN SEWAGE ABSORPTION SYSTEM BEING 48" ABOVE HIGH GROUNDWATER WITH A REPORTED 1 MIN PER INCH PERC RATE.
LOCAL UPGRADE APPROVAL REQUESTED
 310 CMR 15.405 (1) (b) A REDUCTION IN THE 20' SETBACK REQUIRED BETWEEN THE SOIL ABSORPTION SYSTEM AND A CRAWL SPACE RESULTING IN SEWAGE ABSORPTION SYSTEM BEING 12.5" FROM THE CRAWL SPACE
LOCAL UPGRADE APPROVAL REQUESTED
 310 CMR 15.405 (1) (a) A REDUCTION IN THE 10' SETBACK REQUIRED BETWEEN THE SOIL ABSORPTION SYSTEM AND THE PROPERTY LINE REQUESTING A REDUCTION RESULTING IN SEWAGE ABSORPTION SYSTEM BEING 8' FROM THE PROPERTY LINE



SEPTIC TANK BUOYANCY CALCULATIONS
 5000 LBS. TANK WEIGHT = 5000 LBS.
 DOWNWARD FORCE WT. OF BACKFILL 10.6' X 5.8' X 7.5' = 1110 LBS./ CF.FT. = 5,072 LBS. + 12,650 = 18,022
 UPWARD FORCE 10.6' X 5.8' X 3.25' IN THE WATER TABLE = 10.6' X 5.8' X 3.25' X 62.5 LBS / CF = 12,488
 THEREFORE BUOYANCY OF THIS TANK IS OK

PUMP CHAMBER BUOYANCY CALCULATIONS
 1000 LAMARRE TANK WT. = 8000 LBS.
 DOWNWARD FORCE WT. OF BACKFILL 8.6' X 4.8' X 7.5' = 110 LBS./ CF.FT. = 3,405 LBS. + 8,000 = 11,405
 UPWARD FORCE 8.6' X 4.8' X 3.50' IN THE WATER TABLE = 8.6' X 4.8' X 3.50' X 62.5 LBS / CF = 9,100
 THEREFORE BUOYANCY OF THIS TANK IS OK

SYSTEM BLOW UP 1" = 10'
SOILSMITH DESIGNS
 DOUGLAS J. SMITH, R.S.#1156
 SE 2267 WETLAND SCIENTIST #47
 SOILSMITH@GOL.COM
 99 MANCHESTER BLVD SUITE 03104
 BURLINGTON, VT 05401
 (802) 487-2281

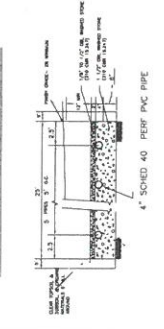
SEPTIC DESIGN
 DIANE AMADON
 507 MAIN STREET
 WEST TOWNSEND MA, 01474
 REVISED MAY 13, 2020 REVISION JUNE 4, 2020
 APRIL 8, 2020 TAX MAP 11 LOT 15 SHEET NO. 2 OF 2

LEGEND

○	IRON PIN
□	GRAVEL BOUND
▨	STONE WALL
△	MANHOLE POINT
⊙	WELL
⊗	END-OF-PIPE
○	WETLAND
⊕	SEWER LINE
⊖	SEWER TANK
⊗	SEWER TANK
⊙	SEWER TANK

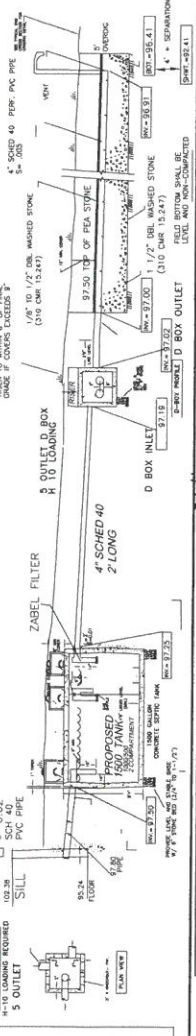
2.6

TYPICAL END CROSS SECTION



KEY ELEVATIONS table with columns for item and elevation. Items include SILL, FLOOR, TANK, DBOX, and BED BOTTOM.

ALL TANK COVERS TO BE AT FINISH GRADE



GENERAL NOTES

- 1) THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY OR ENGINEERED SITE PLAN.
2) ANY DISCREPANCY BETWEEN THESE PLANS AND THE APPROPRIATE FIELD CONDITIONS TO BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION...
3) ALL WORK IS TO COMPLY WITH THE MASSACHUSETTS 10 CMR 15.000 CODE (TITLE 5) AND THE TOWN OF TOWNSEND BOARD OF HEALTH REGULATIONS.

SYSTEM SPECIFICATIONS

- 7) 1 BEDROOM HOUSE, 110 GPD PER BEDROOM, = 330 GPD EFFLUENT LOADING RATE (CLASS 1 SOIL) - 74 GPD PER SQ. FT. SQUARE FOOT SIZING 330 / 74 = 446 SQ. FT. REQUIRED. SYSTEM SIZE 18' X 29' = 450 SQ. FT. PROVIDED 5 PERFORATED SCHED 40 PIPES SPACED 2' CENTER TO CENTER 25' OF STONE ON OUTSIDE EDGE OF PIPES

OWNER INFORMATION

CHAD AND JANINE HALLIDAY 47 EDWARD ROAD TOWNSEND MA 01469
C/O MIKE BLOOD OF BLOOD REALTY GROUP
978-333-8800 OR 978-333-1300 MIRE@BLOODTEAMREALTY.COM

VARIANCE REQUEST

TOWNSEND BOARD OF HEALTH REGULATION R-13
LEACHING CATCH BASIN CONNECTED TO A SURFACE DRAIN HAS A
PERFORATED DRAINAGE SYSTEM AS A CATCH BASIN IS 20'
FROM SOIL ADSORPTION SYSTEM.

LOCAL UPGRADE APPROVAL REQUEST

STATE LOCAL UPGRADE APPROVAL (JRCM 15.405 (1)(b))
REQUIREMENTS FOR LOCAL UPGRADE APPROVAL
BETWEEN THE BOTTOM OF THE SOIL ADSORPTION
SYSTEM AND HIGH GROUNDWATER WITH A
MINIMUM OF 18" OF FREEBOARD.
THE BOTTOM OF SOIL ADSORPTION BEING 4' ABOVE
HIGH GROUNDWATER. THIS WILL ALLOW SYSTEM TO BE
GRAVITY.

LEGEND

Legend table with symbols for 4 inch pipe, 4 inch Zabel filter, 1/2 inch gravel, and 10 inch manhole.

GRAPHIC SCALE



MAY 29, 2020
REVISED JUNE 17, 2020



SOILSMITH DESIGNS
SOIL EVALUATOR 2267, WETLAND SCIENTIST #47
LAND USE CONSULTANT
88 WHITTINGTON STREET
MANCHESTER NH 03104
(603) 487-2298 PHONE SOILSMITH@AOL.COM

SEWAGE DISPOSAL SYSTEM
CHAD AND JANINE HALLIDAY
C/O BLOOD REALTY GROUP
47 EDWARD ROAD
TOWNSEND, MA. 01469
REVISED JUNE 17, 2020 MAY 29, 2020
TAX MAP 34 LOT 97

47 Edward Rd,
Townsend, MA 01469

LOCUS (NITS)

BASED ON TECHNICAL STANDARDS OF THE
TP -1 DATE MAY 8, 2020
SHAPEFILE 100722

TEST PIT LOG table with columns for depth, soil type, and notes. Includes entries for 0-5 inch, 5-14 inch, and 24-109 inch depths.

TEST PIT LOG

BASED ON TECHNICAL STANDARDS OF THE
TP -2 DATE MAY 8, 2020
SHAPEFILE 9841

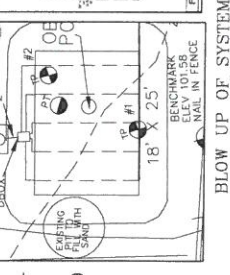
TEST PIT LOG table with columns for depth, soil type, and notes. Includes entries for 0-12 inch, 12-34 inch, 34-38 inch, and 70-109 inch depths.

SOIL CERTIFICATION

I certify that I am currently approved by the Department of Environmental
Management to conduct soil evaluations and that
the above analysis has been conducted in accordance with 310 CMR 15.017. I further
certify that these data and observations are accurate and in accordance with 310 CMR 15.000
evaluation forms, are accurate and in accordance with 310 CMR 15.000

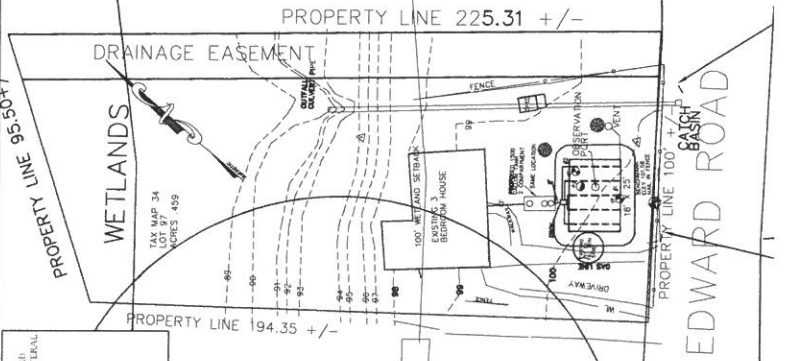
DOUGLAS J. SMITH, MA, SOIL EVALUATOR # 2267
I PASSED THE SOIL EVALUATOR TEST NOV. 11, 1999

NEIGHBORS WELL LOCATIONS



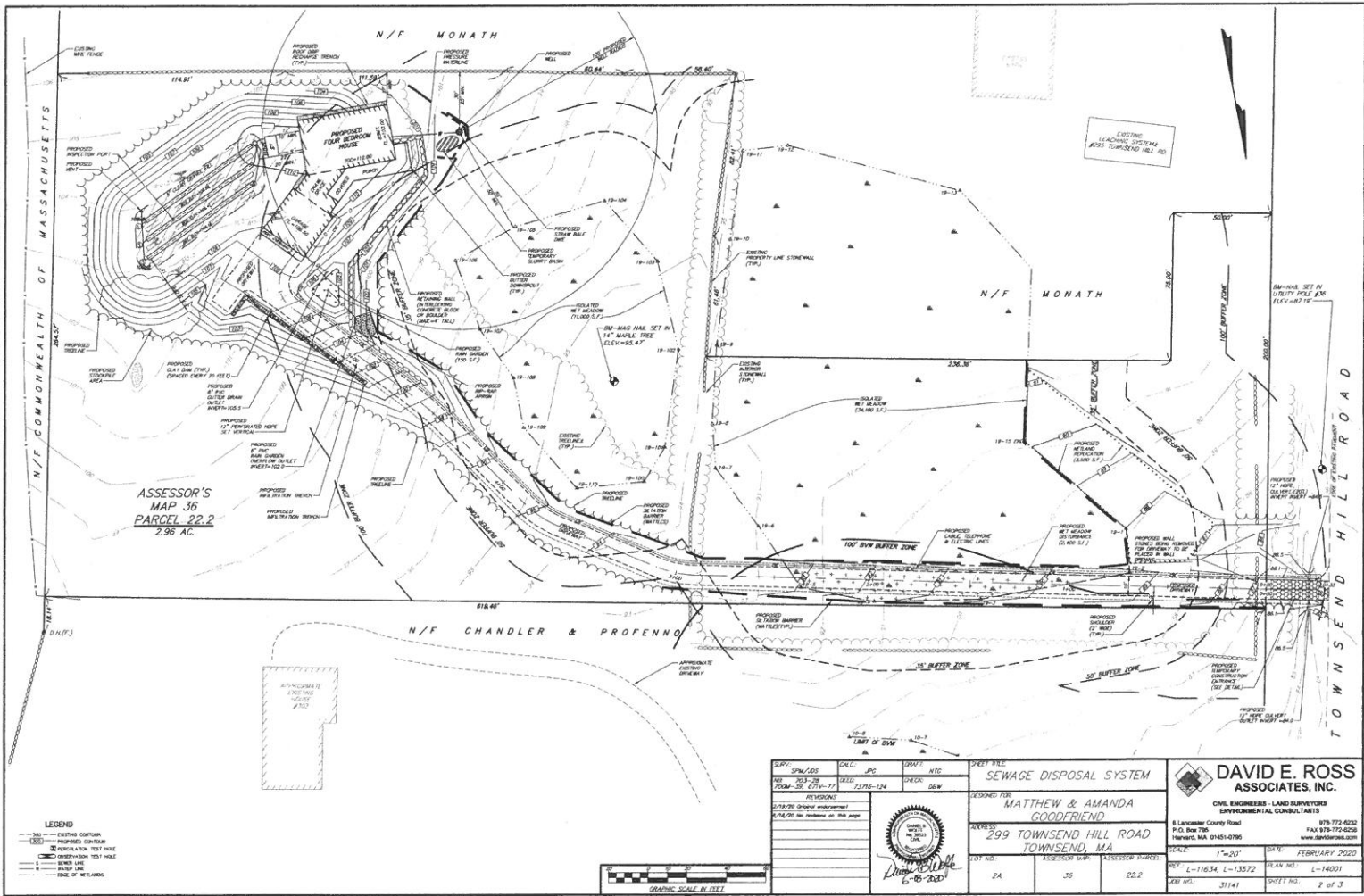
BLOW UP OF SYSTEM
SCALE 1" = 10'

REVISED JUNE 17, 2020
ADD VENT AND MANIFOLD
ALL 3 RISERS TO GRADE TANK

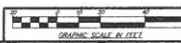


EDWARD ROAD
EDWARD TOWN WATER

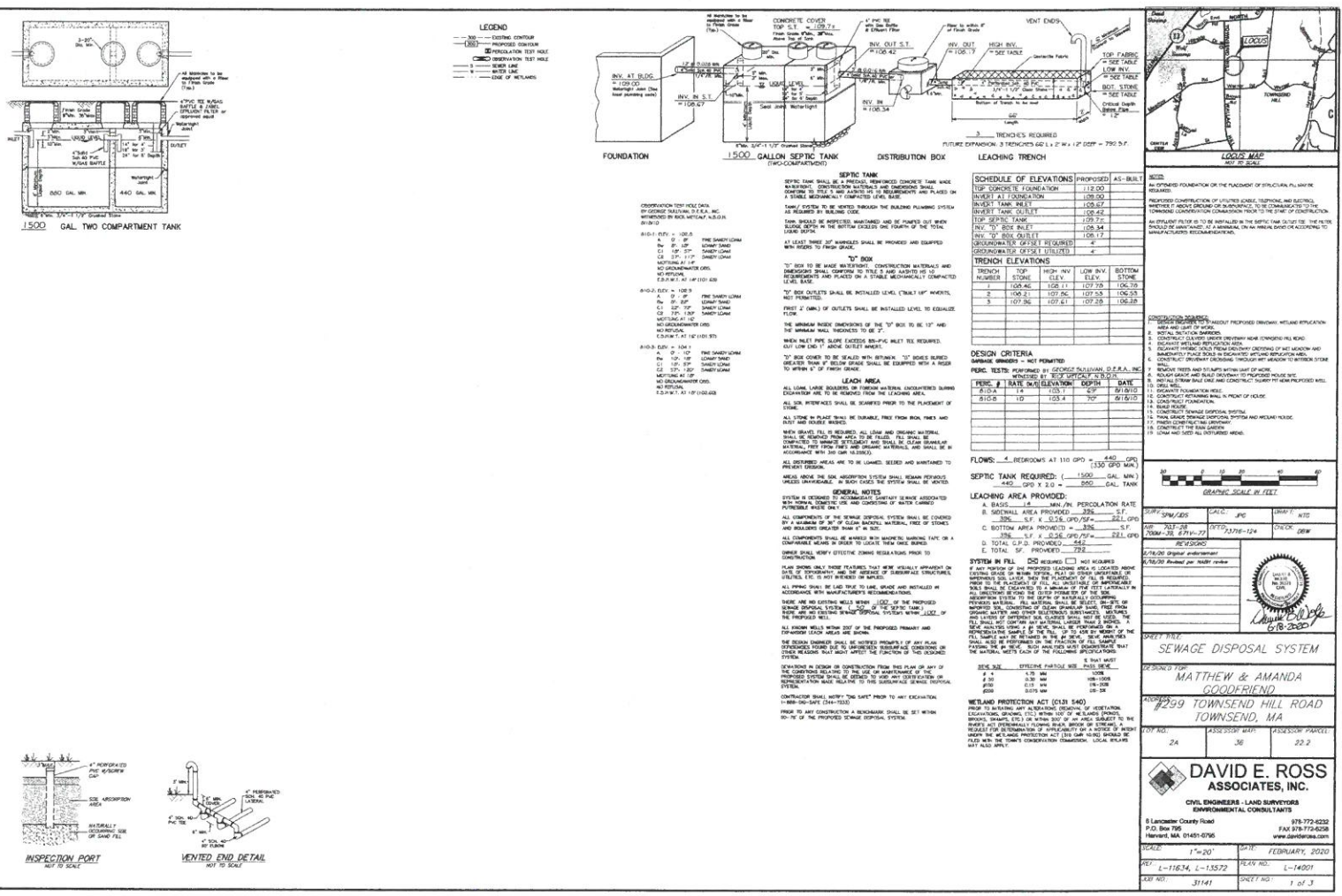
2.7



DATE: 02/14/20	SCALE: 1"=20'	PROJECT: SEWAGE DISPOSAL SYSTEM	
DESIGNED BY: MATTHEW & AMANDA GOODFRIEND	PROJECT ADDRESS: 299 TOWNSEND HILL ROAD, TOWNSEND, MA	CLIENT: MATTHEW & AMANDA GOODFRIEND	
PROJECT NO: 2A	ASSASSOR'S MAP: 36	ASSASSOR'S PARCEL: 22.2	DAVID E. ROSS ASSOCIATES, INC. CIVIL ENGINEERS - LAND SURVEYORS ENVIRONMENTAL CONSULTANTS 8 Lakeside County Road P.O. Box 700 Harvard, MA 01451-0795 TEL: 978-773-6232 FAX: 978-773-6238 www.davidross.com
SHEET NO: 2A		PROJECT NO: 2A	DATE: FEBRUARY 2020
SCALE: 1"=20'		PROJECT NO: L-11634, L-13572	SHEET NO: L-14001
DATE: 02/14/20		PROJECT NO: 3141	SHEET NO: 2 of 3



LEGEND
 --- EXISTING DITCH
 --- PROPOSED DITCH
 --- PROPOSED TEST HOLE
 --- EXISTING TEST HOLE
 --- EXISTING LOT
 --- PROPOSED LOT
 --- SIZE OF LOT



LEGEND
 --- EXISTING CONTOUR
 --- PROPOSED STRUCTURE
 --- INSULATION TEST HOLE
 --- EXISTING LANE
 --- EXISTING SIDE OF WALKWAY

SCHEDULE OF ELEVATIONS

TRENCH NUMBER	TOP	HIGH INV.	LOW INV.	BOTTOM	STONE
1	100.40	100.11	100.10	100.10	
2	100.21	100.00	100.00	100.00	
3	100.30	100.01	100.00	100.00	

DESIGN CRITERIA

PERC. RATE	DATE
1.0	10/1/10
1.0	10/1/10
1.0	10/1/10

SEWERAGE SYSTEM

ITEM	DESCRIPTION	DATE
1	SEWERAGE SYSTEM	10/1/10
2	SEWERAGE SYSTEM	10/1/10
3	SEWERAGE SYSTEM	10/1/10

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MASS DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REGULATIONS, 915 CMR 17.00, AND THE MASS DEPARTMENT OF PUBLIC WORKS (DPW) REGULATIONS, 805 CMR 1.00.
2. THE SEWERAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MASS DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REGULATIONS, 915 CMR 17.00, AND THE MASS DEPARTMENT OF PUBLIC WORKS (DPW) REGULATIONS, 805 CMR 1.00.
3. THE SEWERAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MASS DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REGULATIONS, 915 CMR 17.00, AND THE MASS DEPARTMENT OF PUBLIC WORKS (DPW) REGULATIONS, 805 CMR 1.00.

SEWERAGE SYSTEM

SEWERAGE SYSTEM REQUIRED: (1) 1500 GAL. TANK
 (2) 100' DIA. 8" DIA. 300' DIA. TANK

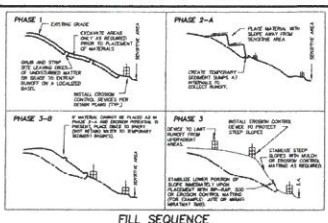
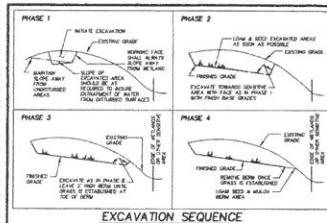
LEACHING AREA PROVIDED:

A. BASED ON 1.0 PERCENT PERCOLATION RATE
 B. TOTAL AREA PROVIDED: 222.0 SQ. FT.
 C. BOTTOM AREA PROVIDED: 222.0 SQ. FT.
 D. TOTAL SQ. FT. PROVIDED: 222.0

DAVID E. ROSS ASSOCIATES, INC.
 CIVIL ENGINEERS - LAND SURVEYORS
 ENVIRONMENTAL CONSULTANTS

5 Lancaster County Road
 P.O. Box 708
 Townsend, MA 01469-0708
 978-772-8232
 FAX 978-772-8238
 www.davidross.com

DATE: 1/20/10
 DRAWN BY: MATHIEW & AMANDA
 CHECKED BY: MATHIEW & AMANDA
 SCALE: 1"=20'
 SHEET NO.: 1 OF 3



EXCAVATION SEQUENCE
NOT TO SCALE

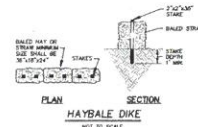
FILL SEQUENCE
NOT TO SCALE

RECOMMENDED WETLAND REPLICATION PLANTINGS

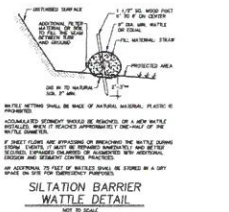
COMMON NAME	SCIENTIFIC NAME	HEIGHT	SPACING
Common Nettle	<i>Urtica dioica</i>	2'-12"	2'
Common Reed	<i>Phragmites australis</i>	2'-12"	2'
Common Cattail	<i>Typha latifolia</i>	2'-12"	2'
Common Bulrush	<i>Scirpus atrovirens</i>	2'-12"	2'
Common Smartweed	<i>Polygonum persicaria</i>	2'-12"	2'
Common Knotweed	<i>Polygonum sp.</i>	2'-12"	2'
Common Sedge	<i>Carex sp.</i>	2'-12"	2'
Common Grass	<i>Poa sp.</i>	2'-12"	2'



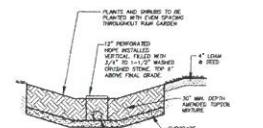
CLAY DAM
NOT TO SCALE



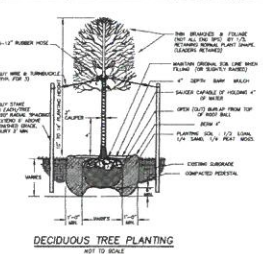
HAYBALE DIKE
NOT TO SCALE



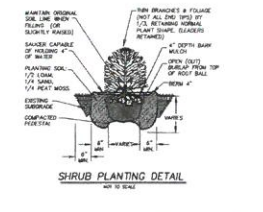
SILTATION BARRIER WATTLE DETAIL
NOT TO SCALE



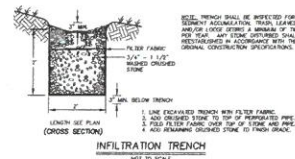
RAIN GARDEN DETAIL
NOT TO SCALE



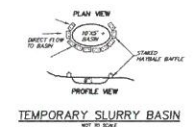
DECIDUOUS TREE PLANTING
NOT TO SCALE



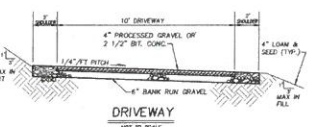
SHRUB PLANTING DETAIL
NOT TO SCALE



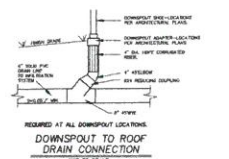
INFILTRATION TRENCH
NOT TO SCALE



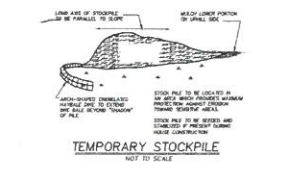
TEMPORARY SLURRY BASIN
NOT TO SCALE



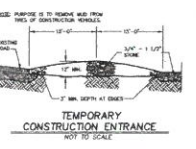
DRIVEWAY
NOT TO SCALE



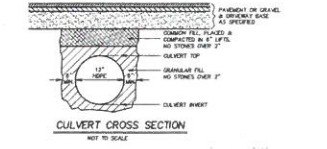
DOWNSPOUT TO ROOF DRAIN CONNECTION
NOT TO SCALE



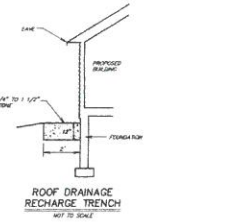
TEMPORARY STOCKPILE
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



CULVERT CROSS SECTION
NOT TO SCALE



ROOF DRAINAGE RECHARGE TRENCH
NOT TO SCALE

SEWAGE DISPOSAL SYSTEM

DESIGNED FOR: **MATTHEW & AMANDA GOODFRIEND**

ADDRESS: **299 TOWNSEND HILL ROAD TOWNSEND, MA**

DATE: 2/24/20

DAVID E. ROSS ASSOCIATES, INC.
CIVIL ENGINEERS - LAND SURVEYORS
ENVIRONMENTAL CONSULTANTS

4 Lakeside County Road
P.O. Box 786
Ware, MA 01463-0786
www.davidross.com

878-775-8232
FAX 878-772-8258

SCALE: 1"=20'

DATE: FEBRUARY 2020

PROJECT: L-116234, L-13572

SHEET NO.: 3 of 3

2.8

Best Friends Veterinary Hospital

256 Main St

Townsend, MA 01469

978-300-5790

Online.pet.vet@gmail.com

June 16, 2020



Nashoba Board of Health

Ayer, MA

R.E.: application for variance to operate a veterinary hospital at 29 Main St, Townsend, MA.

I am requesting a variance from the Nashoba Board of Health and the Massachusetts DEP to operate a veterinary hospital at 29 Main St, Townsend, MA, a residentially zoned property. In order to comply with town bylaws, I will also live on the premises.

The property has a relatively new 2500 gallon septic system. The clinic will have one veterinarian, and one person will live on the second floor. There will be no boarding or grooming.

In order to demonstrate that veterinary hospitals use a fraction of the amount of water that the board of health maintains, I have gathered water use data from several veterinary hospitals in Massachusetts.

- 1) Shirley Animal Clinic
34 Parker St
Shirley, MA
Single vet practice and residence for two people.
Last 24 months water use=127,489 gallons. Av 174.64 gal/day.

- 2) Watertown Animal Hospital
404 Main St.
Watertown, MA
Single vet practice. Not a residence.
Last 12 months water use = av 91.6 gal/day.

3) Pet Haven Animal Hospital

153 Mt Auburn St
Watertown, MA

Two vet practice. Not a residence. Water use for the clinic and unrelated business next door.

Last 12 months water use = av 76.6 gal/day

4) First Choice Veterinary Hospital

324 Electric Av
Lunenburg, MA

Single vet practice. Not a residence.

Last 12 months average 74.8 gal/day.

I have lived at 29 Main St for seven months and my water use has been 34 gal/day according to the last bill.

I believe my septic system is quite adequate for the intended use.

Thank you for considering my application. I hope to hear from you soon.

Sincerely,



Sallie Thurber, DVM

Cc: attorney Mark Darling

04/22/2020

History Transaction Inquiry
Lunenburg (WATER)

Page: 1

ACCT : 00000000340 FIN PER: 3 X-REF:
324 ELECTRIC AVE., LU
CUSTOMER: LTN REALTY TRUST
ADDR : 308 ELECTRIC AVE.

LUNENBURG, MA 01462
LAST READING 651200
LAST READ DATE 03/09/2020

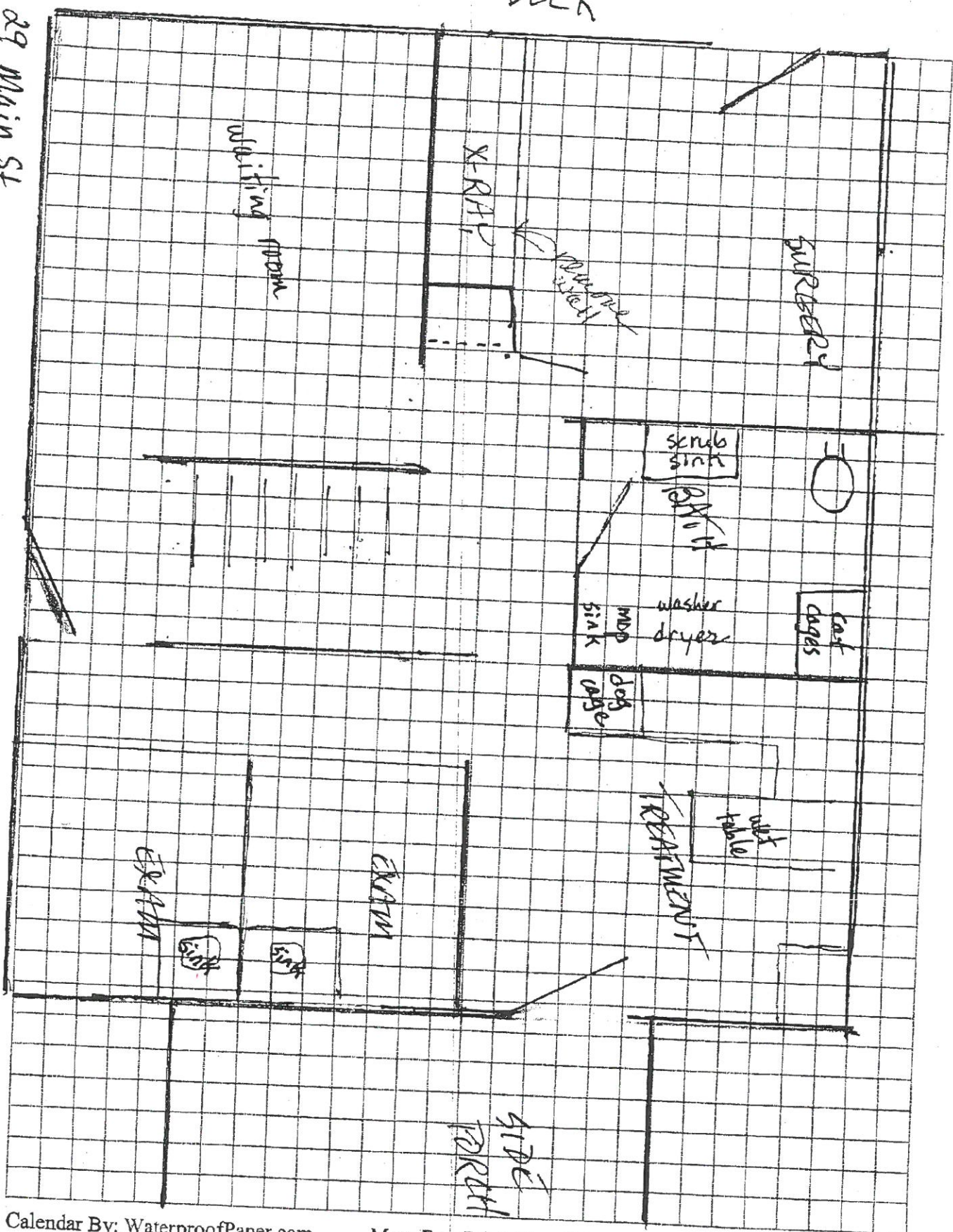
COMP: 2	
* A/R BALANCES *	
* WATER **	Totals *
CURR:	482.60 482.50
30DAY:	0.00 0.00
60DAY:	0.00 0.00
90DAY+:	0.00 0.00
TOT.F/C:	0.00 0.00
LIENS :	0.00 0.00
P. LIEN:	0.00 0.00
TOT.BAL:	482.60 482.60
LAST PYMT:	449.00
LAST DATE:	01/24/2020

*First Choice Vet Hosp
single veterinarian*

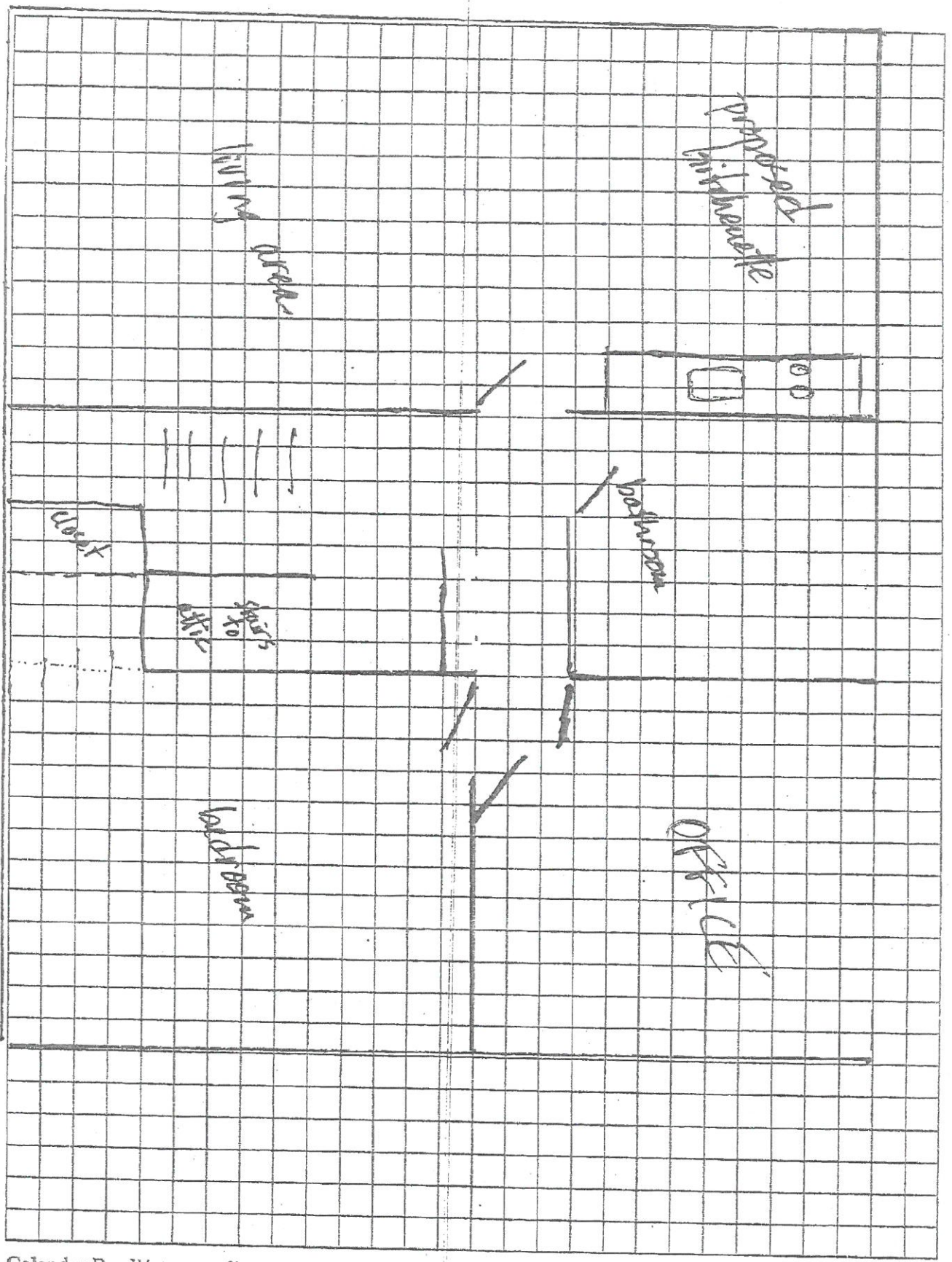
Date	CD.	RATE DESCRIPTION	READING	USAGE/INW#	AMOUNT	Running \$	TYPE REFERENCE	--- REFERENCE ---
04/01/2020	704	COM4 WATER	651200	6700	432.60	482.60	M 1400030046	
04/01/2020	102	SPK2 COSPRINKLR	0	0	50.00	50.00	C 00000000340*00001	
01/24/2020	001	PYMT PAYMENT	0	0	-449.00	0.00		
01/02/2020	704	COM4 WATER	644500	5900	399.00	449.00	M 1400030046	
01/02/2020	102	SPK2 COSPRINKLR	0	0	50.00	50.00	C 00000000340*00001	
10/22/2019	001	PYMT PAYMENT	0	0	-495.20	0.00		
10/01/2019	102	SPK2 COSPRINKLR	0	0	50.00	495.20	C 00000000340*00001	
10/01/2019	704	COM4 WATER	638600	7000	445.20	445.20	M 1400030046	
07/19/2019	001	PYMT PAYMENT	0	0	-524.60	0.00		
07/01/2019	102	SPK2 COSPRINKLR	0	0	50.00	524.60	C 00000000340*00001	
07/01/2019	704	COM4 WATER	631600	7700	474.60	474.60	M 1400030046	
04/11/2019	001	PYMT PAYMENT	0	0	-486.80	0.00		
04/01/2019	102	SPK2 COSPRINKLR	0	0	50.00	486.80	C 00000000340*00001	
04/01/2019	704	COM4 WATER	623900	6800	436.80	436.80	M 1400030046	
01/07/2019	001	PYMT PAYMENT	0	0	-486.80	0.00		
01/02/2019	102	SPK2 COSPRINKLR	0	0	50.00	486.80	C 00000000340*00001	
01/02/2019	704	COM4 WATER	617100	6800	436.80	436.80	M 1400030046	
10/18/2018	001	PYMT PAYMENT	0	0	-482.60	0.00		
10/01/2018	704	COM4 WATER	610300	6700	432.60	482.60	M 1400030046	
10/01/2018	102	SPK2 COSPRINKLR	0	0	50.00	50.00	C 00000000340*00001	
07/30/2018	001	PYMT PAYMENT	0	0	-482.60	0.00		
07/02/2018	102	SPK2 COSPRINKLR	0	0	50.00	482.60	C 00000000340*00001	
07/02/2018	704	COM4 WATER	603600	6700	432.60	432.60	M 1400030046	
06/05/2018	001	PYMT PAYMENT	0	0	-16.48	0.00		
06/05/2018	002	FINC FINANCE CHARG	0	0	-3.25	16.48		
05/08/2018	012	FR DEMAND CHARG	0	0	3.00	19.73		
05/08/2018	010	FNC FINANCE CH	0	0	0.25	16.73		
04/27/2018	002	FINC FINANCE CHARG	0	0	-16.48	16.48		
04/27/2018	001	PYMT PAYMENT	0	0	-432.52	32.96		
04/01/2018	102	SPK2 COSPRINKLR	0	0	50.00	465.48	C 00000000340*00001	
04/01/2018	704	COM4 WATER	596900	5900	399.00	415.48	M 1400030046	
03/12/2018	001	PYMT PAYMENT	0	0	176.72	16.48		
03/12/2018	002	FINC FINANCE CHARG	0	0	16.48	-160.24		
03/12/2018	002	FINC FINANCE CHARG	0	0	-6.74	-176.72		
03/12/2018	002	FINC FINANCE CHARG	0	0	-9.74	-169.98		
03/12/2018	001	PYMT PAYMENT	0	0	-449.00	-160.24		
03/12/2018	003	OVR OVER PNT	0	0	-176.72	288.76		
03/09/2018	010	FNC FINANCE CH	0	0	6.74	465.48		
02/12/2018	010	FNC FINANCE CH	0	0	6.74	458.74		
02/12/2018	012	FR DEMAND CHARG	0	0	3.00	452.00		
01/01/2018	102	SPK2 COSPRINKLR	0	0	50.00	449.00	C 00000000340*00001	

29 Main St
First floor

FROLY



29 Main St
upstairs



Best Friends Veterinary Hospital

256 Main St

Townsend, MA 01469

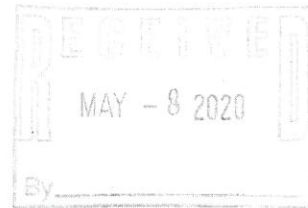
978-300-5790

Online.pet.vet@gmail.com

5/7/20

Nashoba Board of Health

Ayer, MA



Veterinary Hospital Water Use Data:

The following two clinics in Watertown, MA are one vet and one and a half vet practices respectfully:

1.) Watertown Animal Hospital

404 Main St

Watertown, MA

Water use average of past 12 months: 1100 cubic feet/quarter; 8250 gal per quarter, or 91.6 gal per day.

This is for a single vet clinic with support staff. Not a residence.

2.) Pet Haven Animal Hospital

153 Mt Auburn ST

Watertown, MA

Water use average of past 12 months: 920 cubic feet/quarter; 6900 gal/quarter, or 76.6 gallons per day.

This is a one and a half vet practice (one full, one part time vet) and support staff. Not a residence.

This also includes the insurance office next door at 155 Mt Auburn St. There is one meter for both offices.

This data from Watertown, MA Water Dept. 617-972-6420

Best Friends Veterinary Hospital

256 Main St

Townsend, MA 01469

978-300-5790

Online.pet.vet@gmail.com

5/6/20

Nashoba Board of Health

Ayer, MA

R.E.: water use data from veterinary clinics

In addition to the data from various vet hospitals that you have been given previously, I was able to get water use for two years for Shirley Animal Clinic from the Shirley, MA utility dept.

Shirley Animal Clinic

34 Parker St

Shirley, MA

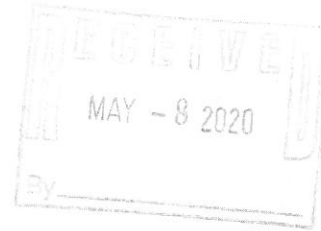
This is a single vet practice. The veterinarian lives on the premises and there is one meter.

For the last 24 months water use has been 127,489 gallons for vet clinic and residence. This averages to 174.64 gallons per day.

Please verify this number with the Shirley Water Dept, 978-425-2245, if necessary.

Thank you,

Sallie Thurber, DVM



BEST FRIENDS VETERINARY HOSPITAL

29 Main Street

Townsend, MA 01469

978-300-5790

The best care for your best friend.



Sallie Thurber, DVM

EXECUTIVE SUMMARY

Best Friends Veterinary Hospital is a small animal veterinary practice located in North Central Massachusetts. It was founded five years ago by Dr. Sallie Thurber, DVM.

Dr. Thurber trained at one of the top ten veterinary schools in the country and has 27 years' experience.

The practice has doubled in size each year and is now a busy veterinary hospital.

We always have, and will continue to offer the best medicine and surgery that a general practice can provide.

We plan to add a second veterinarian to the staff in about a year.

We project that the business will continue to grow after moving from the present rental location to the new and better location at 29 Main Street, which provides more room and parking.

COMPANY DESCRIPTION

Best Friends Veterinary Hospital provides medical and surgical services to dogs, cats, small mammals, small ruminants and poultry in Townsend and surrounding towns. We provide state of the art preventive care, dentistry, internal medicine, digital radiology, a full range of lab services through Idexx Reference Laboratory, including in house bloodwork, advanced in house diagnostic cytology, advanced dermatology diagnosis and treatment, and advanced ophthalmology including extraocular surgery.

We offer a full range of soft tissue surgeries including routine spays and neuters, c-sections, and tumor removals. A board-certified surgeon is on call for orthopedic and more specialized cases.

Emergencies after hours are referred to one of the many emergency and specialty hospitals in the area.

We do not board or groom animals.



MARKET ANALYSIS

Townsend has about 10,000 residents, and with surrounding towns included the population this hospital will serve is about 50,000. This suburban area is ideal for pets and small livestock.

As we realize how valuable pets are to our quality of life, people will spend more on them to keep them healthy and safe. The amount of money spent on pets has been increasing yearly and is expected to continue upward.

29 Main Street is an ideal location, situated across the street from several fast food establishments as well as restaurants, stores, and the high school. The property has great visibility and will have more than adequate parking.

ORGANIZATION AND MANAGEMENT

Dr. Sallie Thurber is the founder, owner, and practice manager.

This practice is a sole proprietorship. At the new location it may be changed to an LLC or an S-CORP, depending on advise from a tax professional.

MARKETING

The location and an attractive sign will provide excellent visibility.

Word of mouth has been our most valuable marketing tool over the last five years.

We have an attractive website and a company Facebook page.

Our reminder system (Pet Desk) is an ap on clients' cell phones that texts and emails when a pet is due for an appointment. It also keeps track of each pets' vaccination status that a client can refer to at any time.

We support community, church, and school organizations which gives us visibility.

11/27/2019

Gmail - Vet Water Usage



sallie thurber <online.pet.vet@gmail.com>

Vet Water Usage

1 message

Lauren Crory <lcrory@townofgroton.org>

Wed, Nov 27, 2019 at 12:21 PM

To: "online.pet.vet@gmail.com" <online.pet.vet@gmail.com>

Hello,

I looked up one our established veterinary offices and found the following.

They use about 11,220-18,700 per quarter

This comes out to 124-207 gallons per day

I hope that helps.

Thank you,

Lauren Crory

Business Manager

Groton Water & Sewer Department

Phone: 978-448-1122

Fax: 978-448-1123

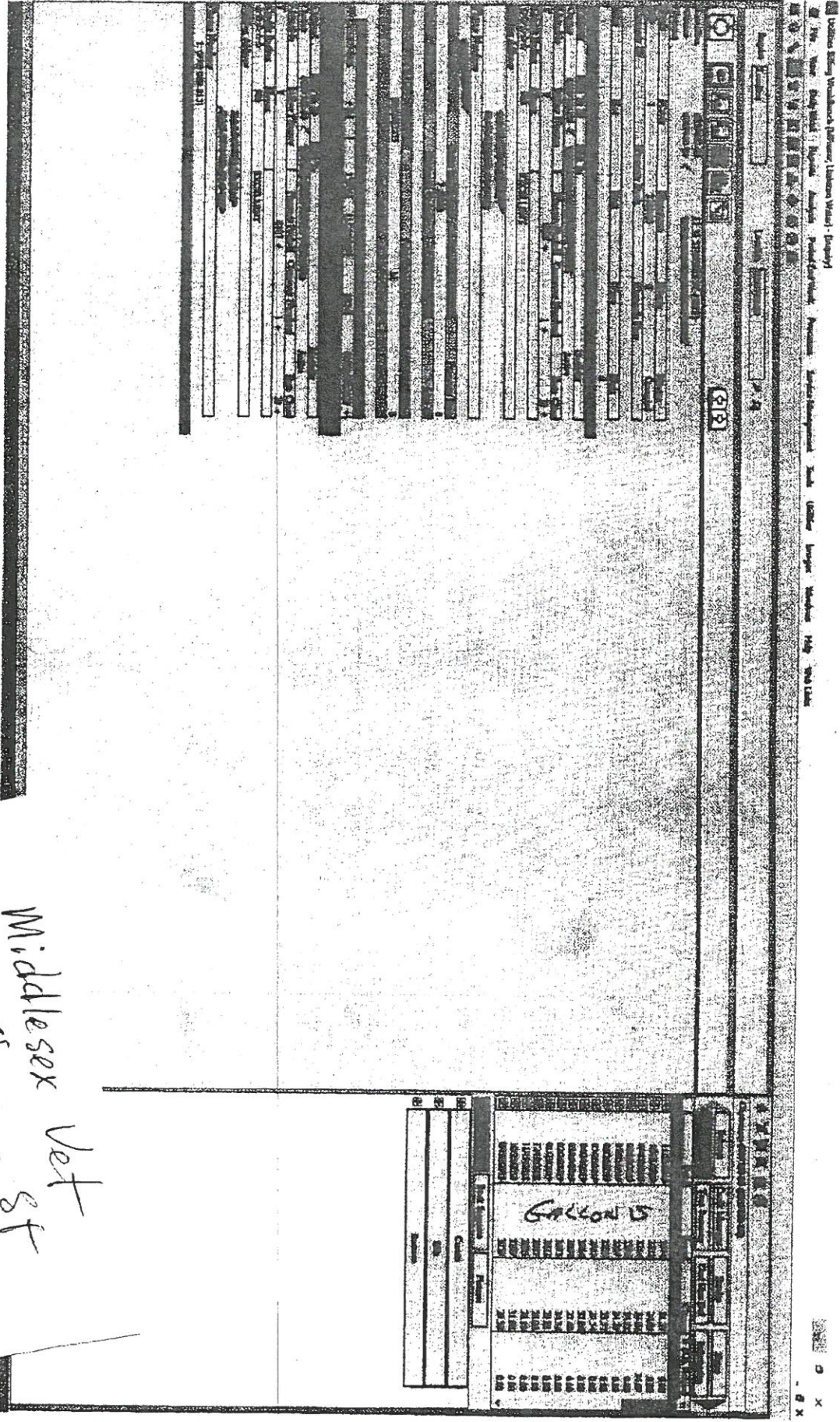
*Tender Heart Lot
Gardner WA*

03/19/2020 10:07
charity

GARDNER, WA
UB Consumption History Report

P 1
ubconsumng

Account Number	Customer # Name	Mtr Meter Number	Cd	Rand Date	Time	Parcel	Bill #	Curr Rand	Location	Usage	Repl	Usage	Charge	Amt	Billed	Amt	Status
00500670007	621733	WOOD-BOUCHER PROPERTIES, LLC	RI70000400006A						7	PERKINS BOUTLWARD							Active
100	SENS13440580		A	01/03/2019			497972209	159,500					125.84			235.84	
100	SENS13440580		A	10/02/2019			497790443	167,300					131.56			246.56	
100	SENS13440580		A	01/13/2019			49772727	155,000					154.44			289.44	
100	SENS13440580		A	04/09/2019			49766504	162,300					135.76			260.76	
100	SENS13440580		A	01/08/2019			49758203	159,700					138.76			260.76	
100	SENS13440580		A	10/02/2018			49752060	157,100					136.76			255.46	
100	SENS13440580		A	07/02/2018			49743892	155,000					131.50			215.46	
100	SENS13440580		A	04/03/2018			49735551	152,000					110.46			225.72	
100	SENS13440580		A	10/03/2017			49729418	150,000					115.72			235.98	
100	SENS13440580		A	07/01/2017			49723203	148,000					120.98			246.24	
100	SENS13440580		A	03/31/2017			49710874	143,900					126.24			260.52	
100	SENS13440580		A	09/10/2017			49704766	141,200					136.76			230.46	
100	SENS13440580		A	10/05/2016			49698559	138,600					120.98			240.76	
100	SENS13440580		A	07/06/2016			49692415	136,200					126.24			230.46	
100	SENS13440580		A	04/07/2016			49686316	133,900					120.98			230.46	
100	SENS13440580		A	01/05/2016			49680255	131,200					120.98			230.46	
100	SENS13440580		A	10/06/2015			49674183	128,800					120.98			230.46	
100	SENS13440580		A	07/06/2015			49668688	126,200					120.98			230.46	
100	SENS13440580		A	04/03/2015			49661992	123,700					131.50			244.00	
100	SENS13440580		A	01/03/2015			49653822	121,400					120.98			215.28	
100	SENS13440580		A	10/20/2014			49647786	119,400					105.20			187.20	
100	SENS13440580		A	07/01/2014			49641733	117,200					115.72			205.92	
100	SENS13440580		A	04/02/2014			49633838	114,800					125.24			224.64	
100	SENS13440580		A	10/06/2013			49627794	112,600					115.72			205.92	
100	SENS13440580		A	07/02/2013			49621754	109,500					131.50			230.16	
100	SENS13440580		A	04/03/2013			49613806	107,000					125.24			224.40	
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100	SENS13440580		A	10/01/2012			49601759	102,100					120.98			205.92	
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100	SENS13440580		A	04/02/2012			49589517	97,800					120.98			205.92	
100	SENS13440580		A	01/03/2012			49583525	95,300					110.46			196.56	
100	SENS13440580		A	10/04/2011			49577341	91,500					131.50			224.00	
100	SENS13440580		A	07/12/2011			49569540	88,200					120.98			209.08	
100	SENS13440580		A	04/04/2011			49563383	85,600					122.64			209.08	
100	SENS13440580		A	01/06/2011			49553355	81,200					222.64			403.04	
100	SENS13440580		A	10/04/2010			49547337	76,400					242.88			439.68	
100	SENS13440580		A	07/14/2010			49541336	71,800					162.68			310.18	
100	SENS13440580		A	04/05/2010			49535324	68,000					120.98			241.92	
100	SENS13440580		A	01/05/2010			49529379	62,300					120.98			246.72	
100	SENS13440580		A	09/29/2009			49523230	58,700					120.98			227.24	
100	SENS13440580		A	07/03/2009			49517232	56,300					110.64			209.76	
100	SENS13440580		A	04/03/2008			49511232	52,700					120.98			144.51	
100	SENS13440580		A	10/04/2008			49505230	48,800					97.76			89.26	
100	SENS13440580		A	07/02/2008			49499168	46,800					97.76			89.26	
100	SENS13440580		A	04/08/2007			49493104	43,400					89.26			89.26	
100	SENS13440580		A	10/08/2007			49487040	37,200					89.26			89.26	
100	SENS13440580		A	07/05/2007			49480976	35,100					89.26			89.26	
100	SENS13440580		A	10/03/2006			49474912	29,600					89.26			89.26	
100	SENS13440580		A	07/10/2006			49468848	27,800					89.26			89.26	
100	SENS13440580		A	10/04/2005			49462784	23,100					89.26			89.26	
100	SENS13440580		A	07/05/2005			49456720	21,900					89.26			89.26	



Middlesex Vet Hosp
Littleton

Middlesex Vet St
31 Stevens
Littleton
3000 gal / month
2 vets

Tresaderm
hibitendazole-dexamethasone-neomycin sulfate



**Westford Water
Department**

60 Forge Village Road
Westford, MA 01886
Phone: 978-692-5529
Fax: 978-692-5530

Title V Report

VICKREY CORYN
270 LITTLETON ROAD
UNIT 20
WESTFORD, MA 01886

ACCOUNT NUMBER: 500339
SERVICE LOCATION: 270 LITTLETON ROAD20

DATE	CURRENT READING (CF*)	PREVIOUS READING (CF*)	CONSUMPTION (CF*)
09/30/2019	7,600	7,000	600
06/30/2019	7,000	6,300	700
03/31/2019	6,300	5,700	600
12/31/2018	5,700	5,100	600
09/30/2018	5,100	4,500	600
06/30/2018	4,500	3,800	700
03/30/2018	3,800	3,300	500
12/31/2017	3,300	2,700	600
TOTAL CONSUMPTION:			4,900

Whole Pet Vet Hosp

3 vets

*1 CF = 1 Cubic Feet or 7.48 Gallons



**Westford Water
Department**
60 Forge Village Road
Westford, MA 01886
Phone: 978-692-5529
Fax: 978-692-5530

Title V Report

NASHOBA VALLEY VETERINARY
HOSPITAL
347 LITTLETON ROAD
WESTFORD, MA 01886

ACCOUNT NUMBER: 500218
SERVICE LOCATION: 347 LITTLETON ROAD

DATE	CURRENT READING (CF*)	PREVIOUS READING (CF*)	CONSUMPTION (CF*)
09/30/2019	126,700	123,000	3,700
06/30/2019	123,000	120,000	3,000
03/31/2019	120,000	116,200	3,800
12/31/2018	116,200	113,000	3,200
09/30/2018	113,000	107,300	5,700
06/30/2018	107,300	103,100	4,200
03/30/2018	103,100	99,800	3,300
12/31/2017	99,800	95,400	4,400

TOTAL CONSUMPTION: 31,300

2 vets
boarding: 50 dogs, 20 cats

* 1 CF = 1 Cubic Feet or 7.48 Gallons