

NOTICE OF PUBLIC MEETING SUDBURY CONSERVATION COMMISSION

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability filing, under the Wetlands Protection Act and Sudbury Wetlands Administration Bylaw, to install a concrete pad for a hot tub within the 100-foot Buffer Zone, at 47 Fairbank Road, in Sudbury, MA. Clifford Nulman, Applicant. The hearing will be held on Monday, October 18, 2021 at 6:45 pm, via remote participation.

Copies of the application may be reviewed at the Conservation Department web page at: <https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-october-18-2021/>.

SUDBURY CONSERVATION COMMISSION
September 30, 2021



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Sudbury
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Clifford D. Nulman and Flavia M. Machado

cliffnulman@gmail.com

Name

E-Mail Address

47 Fairbank Road

Mailing Address

Sudbury

MA

01776-1620

City/Town

State

Zip Code

401-524-3716

Phone Number

Fax Number (if applicable)

2. Representative (if any):

None

Firm

Contact Name

E-Mail Address

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

B. Determinations

1. I request the Town of Sudbury make the following determination(s). Check any that apply:
Conservation Commission

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- ☒ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- ☒ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Town of Sudbury

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

47 Fairbank Road

Sudbury

Street Address

City/Town

F06

0701

Assessors Map/Plat Number

Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

Level open grass in the back yard at rear of home.

- c. Plan and/or Map Reference(s):

As-Built Septic System at 47 Fairbank (modified 9-29-2021)

6/9/14 and 9/29/21

Title

Date

Sudbury Parcel Map F06-0701 from MapsOnline.net dated 9/29/2021

9/29/2021

Title

Date

Photos

9/29/2021

Title

Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Work: Installation of a hot tub onto a concrete and crushed stone base. Digging and pouring of 8 foot x 8 foot x 4 to 5 inch concrete base and a layer of 4 inch crushed stone underneath. Concrete pad preparation work be hand dug and hand tamped. Concrete and stone will be delivered by truck which will only park in the driveway and will be wheelbarrowed by hand to the site. No other machinery. No pruning nor removal of shrubs/trees. Hot tub has water-impermeable top cover.

Additional information:

- Not changing the function of the area
- Approximately 400 gallons of water from the hot tub would be discharged quarterly outside the 100 foot buffer zone.
- Hot tub chemicals would be stored inside the basement.



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C. Project Description (cont.)

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).
3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.
- ☐ Single family house on a lot recorded on or before 8/1/96
 - ☐ Single family house on a lot recorded after 8/1/96
 - ☐ Expansion of an existing structure on a lot recorded after 8/1/96
 - ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
 - ☐ New agriculture or aquaculture project
 - ☐ Public project where funds were appropriated prior to 8/7/96
 - ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
 - ☐ Residential subdivision; institutional, industrial, or commercial project
 - ☐ Municipal project
 - ☐ District, county, state, or federal government project
 - ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Clifford D. Nulman and Flavia M. Machado

Name

47 Fairbank Road

Mailing Address

Sudbury

City/Town

MA

State

01776-1620

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Clifford D. Nulman *Flavia M. Machado*
Signature of Applicant

9/29/2021

Date

Signature of Representative (if any)

Not applicable

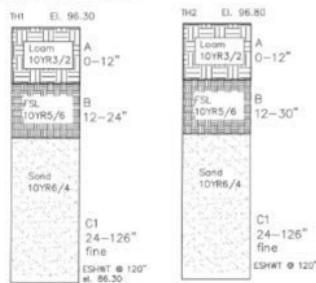
Date

AS-BUILT ELEVATIONS

at Foundation 96.69
Septic Tank Inlet Invert 96.20
Septic Tank Outlet Invert 95.98
D-Box Inlet Invert 94.78
D-Box Outlet Invert 94.60
Leaching Gallery Invert 94.40
Leaching Gallery Bottom Invert 92.40
Design Groundwater Elevation 87.40

SOIL LOGS

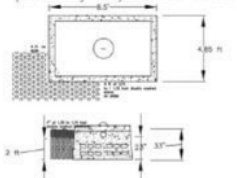
Dated Conducted: May 28th, 2014
Conducted by: William C. Murphy
Witnessed by: Bob Leupold, Sudbury Health Dept.
I, William Murphy certify that on 10/94 I passed the examination approved by the DEP and that the following analysis has been performed by me consistent with the training, expertise, and experience described in 310 CMR 15.018 (3).



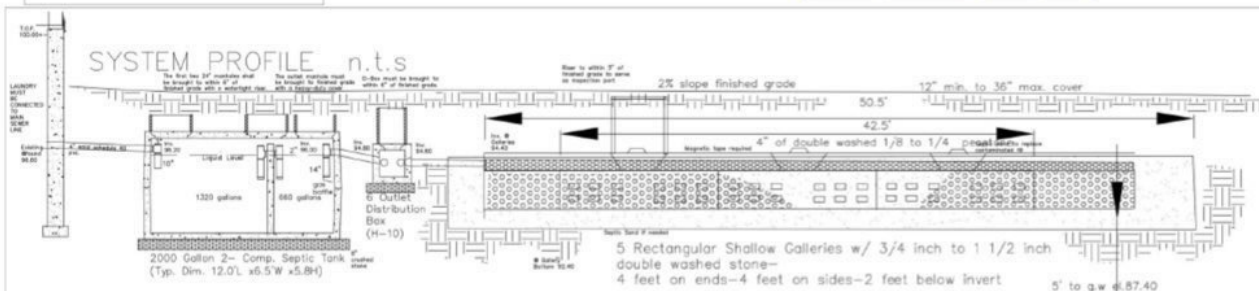
not to scale

Permeation Test #1 0.52" GMP
Percolation Test #2 0.52" GMP

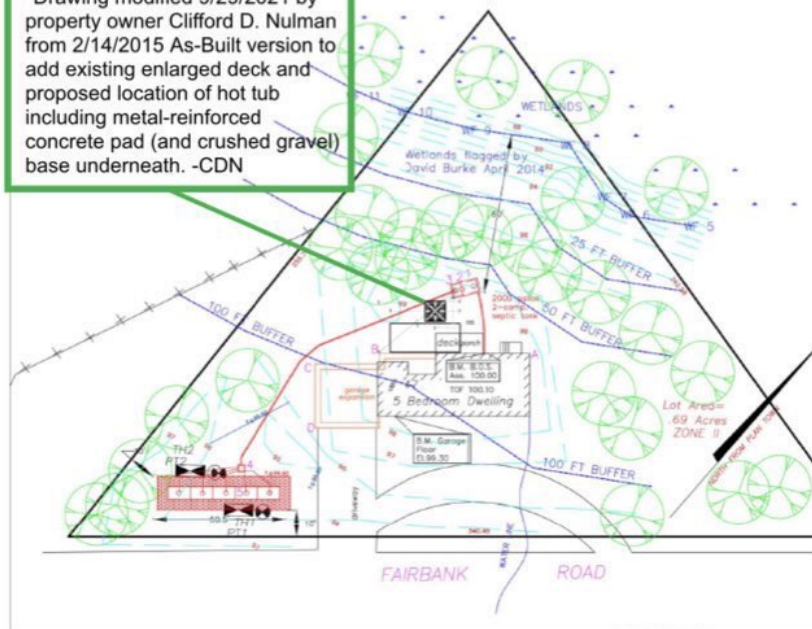
(5) Rectangular Gallery
(aka Drywell) Detail n.t.s.



SYSTEM PROFILE n.t.s



*Drawing modified 9/29/2021 by property owner Clifford D. Nulman from 2/14/2015 As-Built version to add existing enlarged deck and proposed location of hot tub including metal-reinforced concrete pad (and crushed gravel) base underneath. -CDN



Schedule of ties

	A	B	C	D
1	33'	45'7"		
2	35'5"	39'8"		
3	37'	37'		
4			46'	34'
5			54'	38'
6				

AS-BUILT CERTIFICATION

I, William Murphy, certify that the septic system installed at 447 Fairbank Rd., Sudbury, was installed in accordance with the design plan dated 6/3/14 and all modifications approved by the Health Department. The septic system installed conforms with Title 5 and falls within all acceptable tolerances set forth by Title 5 and the Sudbury Health Department regulations.

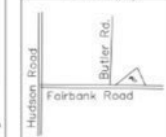
Design Criteria

Number of Bedrooms: 5
Design Flow:
5 Bdrms @ 110
GPD/Bdrm. = 550 GPD
Soil Area:
Effluent Loading Rate: .74
Gal./Day/Sq.Ft.
Type of Soil Absorption
(SAS): Leaching
Gallery/Drywell
Check Drains Allowed? No
Change of slope, materials
may cause the premature failure
of the SAS.
Site 5 Area Required 744 SF
of 25' x 25' Subst./Bedroom=25
Leaching Area provided: 901 SF
Bottom Area = 50'5" x 12'8"
= 648 SF
Side Area =
2(1/2 x 50'5") + 2(12'8" x 2) = 253
SF
Total = 901 SF Provided

Other Note

1. Laundry plumbing must be connected to the main sewer line.
2. The contractor must adhere to the Order of Conditions issued by the Conservation Commission.

Locus Map



William C. Murphy, R.S. #
1090

Legend

- | | |
|------|---------------------|
| | Ex. Contour |
| | Prop. Contour |
| f.g. | finished grade |
| ex. | limit of excavation |
| | deep test hole |
| | perculation test |
| | tree |

General Notes

[illegible]

System Note

4. All pipes shall be schedule 40, per unless otherwise specified.

5. All piping (with the exception of the soil absorption system) shall be located in 60 inch diameter trenches and located in the pipes shall be visible to verify pipe identification.

6. The absorption system shall be located in a trench to extend every 5 inches of finished grass. The line shall have a minimum slope of 5 inches per foot.

7. The absorption system shall be distributed but shall be brought to within 6 inches of finished grade.

Construction Fill

1. Fill for the system shall be composed of clean, granular sand. Free from organic matter and deleterious substances.

2. The fill shall be layers of 12 inches or less in thickness.

3. The fill shall not contain any material greater than two (2) inches in diameter.

4. The fill shall be placed in a representative sample of the fill, up to 40% by weight of the fill sample may be removed on the side slope. The fill shall be placed in a representative sample through the gas main, each analysis also shall be demonstrated that the material inside each of the

4. Where fill is required to replace unsuitable or impermeable soils, the excavation of the unsuitable material (spoil, subsoil, and any deleterious material) shall extend a minimum of five feet vertically in all directions beyond the outer perimeter of the soil absorption system to a depth of 6 inches into the naturally occurring pervious material as required by 210 CMR 15.240 and replaced with the fill specified above.

7. The bottom of the excavation shall be scarified and relatively dry. Fill shall not be placed in rain or snow storms. If the water table elevation is above the elevation to the bottom of the excavation, the excavation shall be dewatered.

Soil Absorption System

8. All piping shall be schedule 80 pipe and shall be tested and certified joints that are watertight and sound condition.

9. The first two feet of the distribution lines from

10. The anchors shall be evenly spaced along two rows running the length of the line, on each side, midway between the mast, and the centerline which separates the upper and lower halves of the pipe.

For gravity systems, the anchors shall be no smaller than $\frac{1}{2}$ inch and no larger than $\frac{3}{4}$ inch in diameter.

11. All structures shall be constructed over the HARS for a finished grade so that the water will drain away.

12. No permanent structures must be placed over

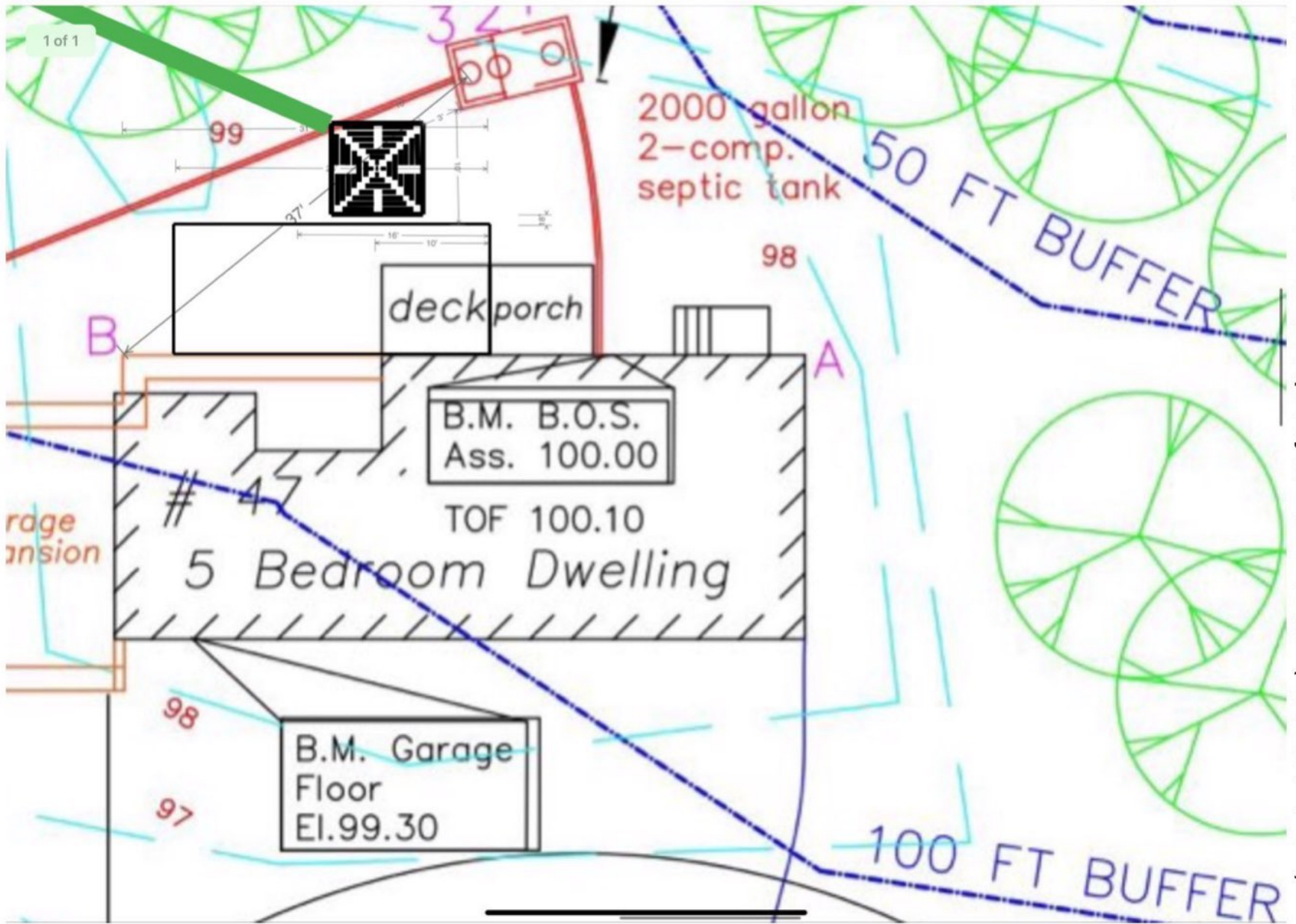
14. Only double washed stone is permitted to be used for the soil absorption system (less than .2% material finer than the number 200 sieve as determined by ASTM method T-11 see T-1-92).

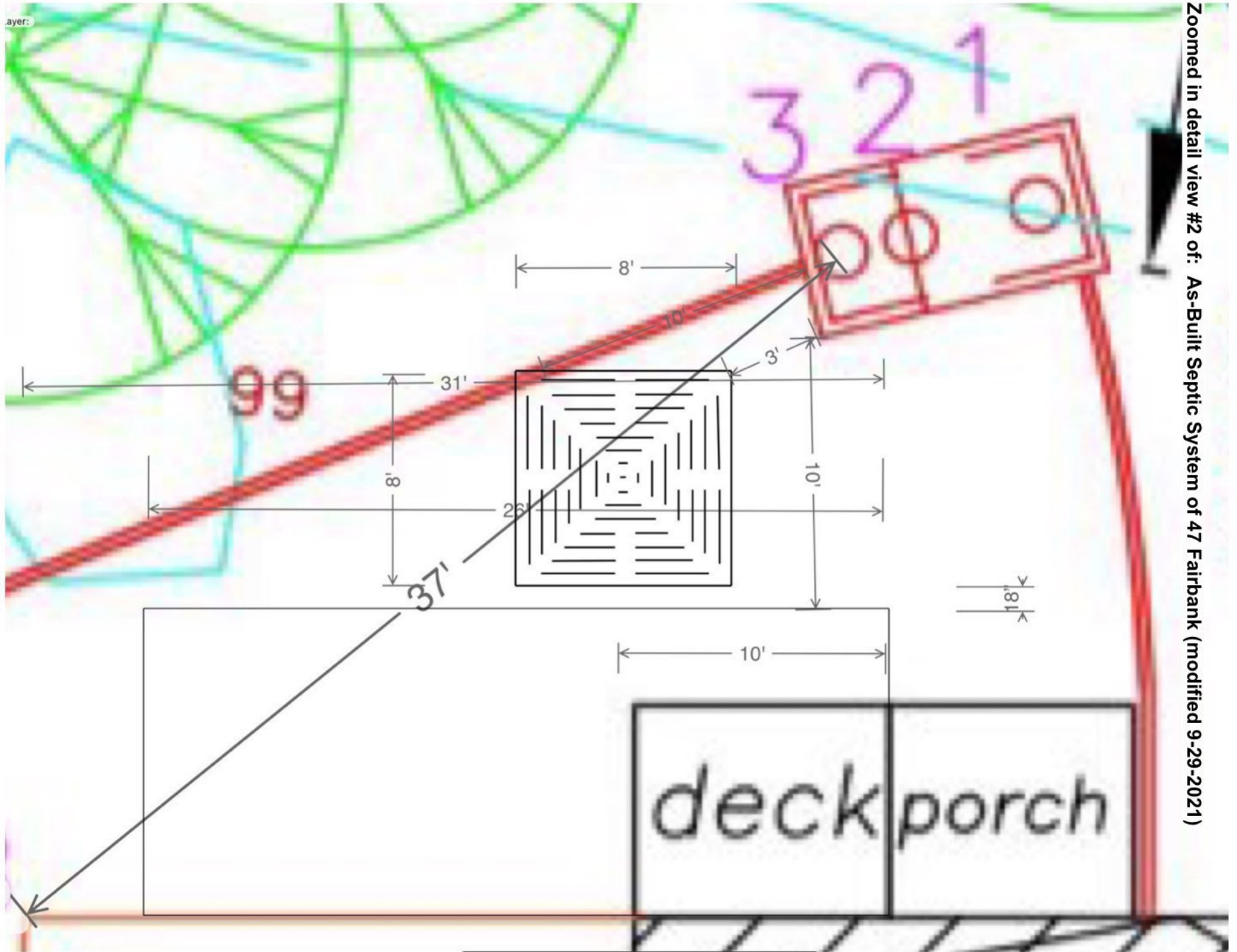
1.	AS-BUILT	2/14/15
See 9/29/2021 note*		
No.	Revision/Issue	Date

PureGround, Inc.
 William C. Murphy
 P.O. Box 312
 Weston, MA
 (781) 259-9900

Project Name and Address
AS-BUILT
 SEPTIC SYSTEM
 at
 47 Fairbank Road
 F06 Parcel 701
 Sudbury, MA

Project 47 Fairbank SUD		Sheet Page 1 of 1
Date	6/3/14	
Scale	1"=20 feet	





Zoomed in detail view #2 of: As-Built Septic System of 47 Fairbank (modified 9-29-2021)



