

WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**LAWS/REGULATIONS INVOLVED**10 V.S.A. Chapter 64, Potable Water Supply and Wastewater System Permit
Wastewater System and Potable Water Supply Rules, Effective April 12, 2019**Permittee(s): The Estate of David E. Rogers**
c/o Brooke Dingledine, Esq, VDM Law
PO Box 625
Barre, VT 05641**Permit Number: WW-5-9367**

This permit affects the following properties in East Montpelier, Vermont:

Lot	Parcel	SPAN	Acres	Book(s)/Page(s)#
1-Existing	02-022.000	195-062-10926	87.16	Book:29 Page(s):74, Book:29 Page(s):97, Book:29 Page(s):73, Book:29 Page(s):72
1-Proposed			10.48	
2-Proposed			1.68	
3-Proposed			75.00	

This application, consisting of subdividing the existing lot 1 into lot 1 with an existing 3-bedroom single family residence, lot 2 with an existing 2-bedroom single family residence and lot 3 subject to Notice of Permit requirements located at 1307 & 1657 VT Route 214 in East Montpelier, Vermont, is hereby approved under the requirements of the regulations named above subject to the following conditions. Any person aggrieved by this permit may appeal to the Environmental Court within 30 days of the date of issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules of Environmental Court Proceedings.

1. GENERAL

- 1.1. The permittee is responsible for recording this permit in the East Montpelier Land Records within 30 days of issuance of this permit and prior to the conveyance of any lot subject to the jurisdiction of this permit.
- 1.2. The permittee is responsible for recording the design and installation certifications and other documents that are required to be filed under these Rules or under a permit condition in the East Montpelier Land Records.
- 1.3. Each assign or successor in interest shall be shown a copy of the Wastewater System and Potable Water Supply Permit and the stamped plan(s) prior to the conveyance of a lot.
- 1.4. The landowner is responsible for establishing any easement(s) shown on the approved plans. The land deeds that establish and transfer ownership of the approved lot(s) shall allow future owner(s) the right to construct, maintain, and repair the wastewater and/or potable water supply systems approved herein. If the landowner does not properly execute said easement(s), this permit becomes null and void for any subject lot conveyed without easement(s).
- 1.5. Lot 3 is **NOT approved for construction at this time**. Any deed for this parcel shall contain the following language until a permit has been obtained from the Drinking Water and Groundwater Protection Division: *“Notice of permit requirements. In order to comply with applicable state Rules concerning potable water supplies and wastewater systems, a person shall not construct or erect any structure or building on the lot of land described in this deed if the use or useful occupancy of that structure or building will require the installation or connection to a potable water supply or wastewater system, without first complying with the applicable rules and obtaining any required permit. Any person who owns this property acknowledges that this lot may not be able to meet state standards for a potable water supply or wastewater system and therefore this lot may not be able to be improved.”*



- 1.6. By acceptance of this permit, the permittee agrees to allow representatives of the State of Vermont access to the property covered by the permit, at reasonable times, for the purpose of ascertaining compliance with the Vermont environmental and health statutes and regulations, and permit conditions.
- 1.7. This permit does not relieve the landowner from obtaining all other approvals and permits from other State Agencies or Departments, or local officials prior to construction.

2. SUBDIVISION AND CONSTRUCTION

- 2.1. Subdivision and construction shall be completed as shown on the plans and/or documents prepared by Craig D. Chase, with the stamped plans listed as follows:

Title	Sheet #	Plan Date	Revision
Overall Subdivision Plan	OASP	09/08/2023	
Lot 1 Site Plan A	SP1A	09/11/2023	10/16/2023
Lot 1 Site Plan B	SP1B	09/11/2023	10/16/2023
Lot 2 Site Plan	SP2	09/11/2023	

- 2.2. Construction of wastewater systems or potable water supplies, or buildings or structures (as defined by the Wastewater System and Potable Water Supply Rules), or campgrounds, not depicted on the stamped plans, or identified in this permit, is not allowed without prior approval by the Drinking Water and Groundwater Protection Division.
- 2.3. No buildings, roads, water pipes, sewer services, earthwork, re-grading, excavation, or other construction that might interfere with the operation of a wastewater system or a potable water supply are allowed on or near the site-specific wastewater system, wastewater replacement area, or potable water supply depicted on the stamped plans. Adherence to all isolation distances that are set forth in the Wastewater System and Potable Water Supply Rules is required.

3. INSPECTIONS

- 3.1. No permit issued by the Secretary shall be valid for a substantially completed potable water supply and wastewater system until the Secretary receives a signed and dated certification from a qualified Vermont Licensed Designer (or where allowed, the installer) on a Secretary-approved form that states:

“I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system were installed in accordance with the permitted design and all permit conditions, were inspected, were properly tested, and have successfully met those performance tests.”

or which satisfies the requirements of §1-311 of the referenced rules.

- 3.2. Prior to the use of the new potable water supply on lot 2, the permittee shall test the water for Arsenic, Escherichia coli (E. coli), Fluoride, Lead, Manganese, Nitrate as N, Nitrite as N, Total Coliform Bacteria, Uranium, Adjusted Gross Alpha Particle Activity, Chloride, Sodium, Iron, Odor and pH. The Lead sample shall be a first-draw. All water quality tests shall be conducted at a laboratory certified by the Vermont Department of Health (a list of which can be found on the VDH website). Results of the water tests shall be submitted to the Vermont Department of Health prior to use or within 60 days of the submission of the Installation Certification required in Condition 3.1, whichever comes first.

4. DESIGN FLOW

- 4.1. Lot use and design flows (gpd) shall correspond to the following:

Lot	Building	Building Use / Design Flow Basis	Wastewater	Water
1	Existing	3-Bedroom Single Family Residence	420	420
2	Existing	2-Bedroom Single Family Residence	280	280
3	N/A	Subject to Notice of Permit Requirements	0	0


5. WASTEWATER SYSTEM

- 5.1. Lots 1 and 2 are approved with existing wastewater systems. No changes shall be made to the existing wastewater systems unless otherwise exempt without prior approval from the Drinking Water and Groundwater Protection Division.
- 5.2. Future replacement wastewater areas are identified for lots 1 and 2 on the stamped plan(s). There shall be no construction or other activities that will affect the suitability of these areas for the design and construction of a wastewater system.
- 5.3. Prior to the construction of a replacement wastewater system in a replacement area, the landowner shall file an application with the Drinking Water and Groundwater Protection Division pursuant to the Wastewater System and Potable Water Supply Rules.
- 5.4. Should a wastewater system fail and not qualify as a minor repair or for an exemption, the landowner shall engage a qualified Licensed Designer to evaluate the cause of the failure and submit an application to the Drinking Water and Groundwater Protection Division, and obtain approval thereof, prior to correcting the failure.
- 5.5. This permit does not relieve the permittee of the obligations of Title 10, Chapter 48, Subchapter 4, for the protection of groundwater.

6. POTABLE WATER SUPPLY

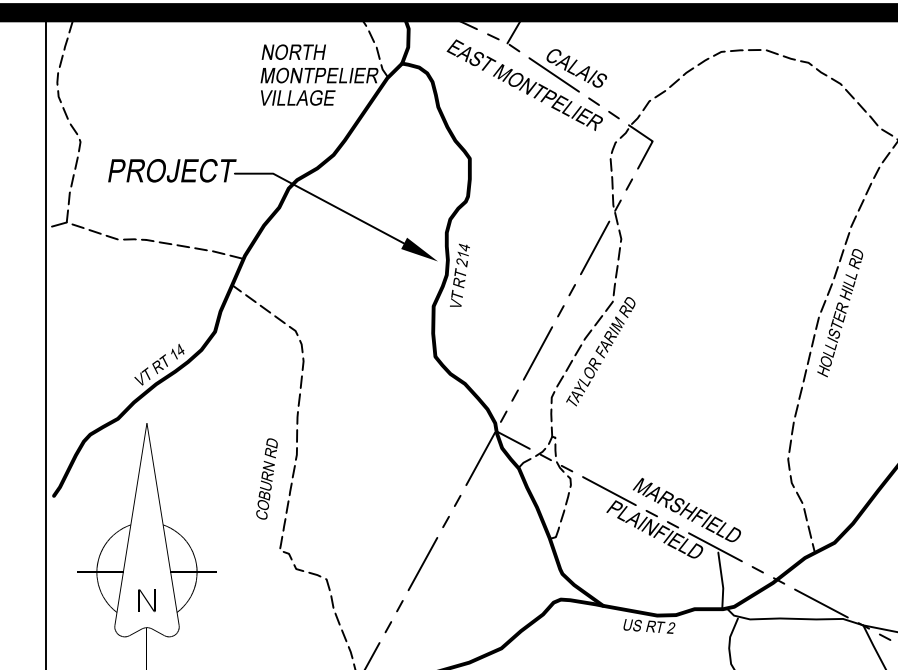
- 6.1. The existing 3-bedroom single family residence on lot 1 is authorized to utilize the existing on site water supply system provided the potable water supply is operated at all times in a manner that keeps the supply free from contamination. No changes shall be made to the existing water system, and no other means of obtaining potable water shall be allowed, without prior review and approval by the Drinking Water and Groundwater Protection Division unless otherwise exempt. The landowner shall immediately notify the Division if the water supply system fails to function properly and becomes a "failed supply".
- 6.2. Prior to construction or site work on lot 2, a designer shall flag the center of the new proposed potable water source for the existing 2-bedroom single family residence on lot 2 and the owner shall maintain the flag until commencement of construction of the source.
- 6.3. Should a potable water supply fail and not qualify as a minor repair or for an exemption, the landowner shall engage a qualified Licensed Designer to evaluate the cause of the failure and submit an application to the Drinking Water and Groundwater Protection Division, and obtain approval thereof, prior to correcting the failure.

Julia S. Moore, Secretary
Agency of Natural Resources

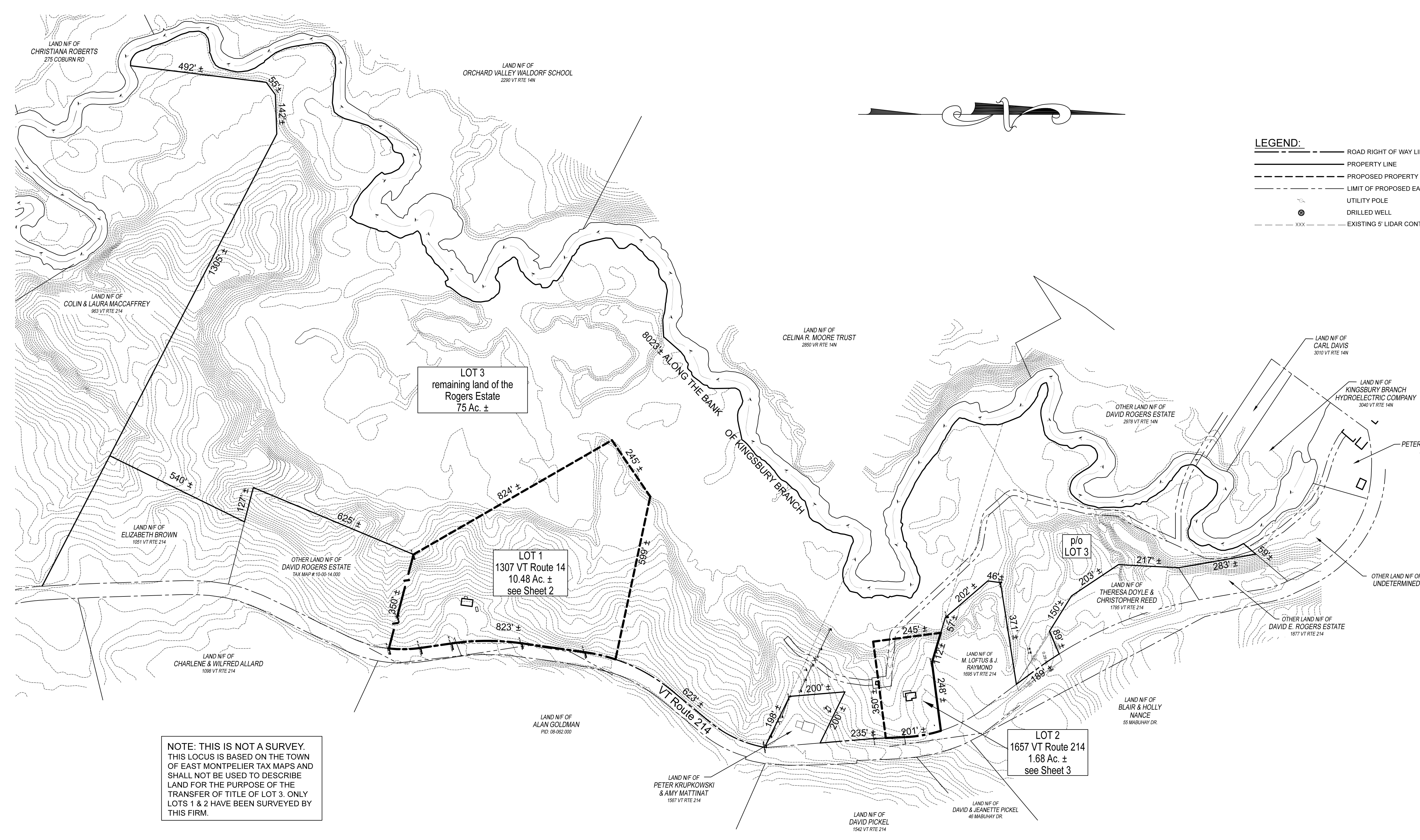
By 
Carl Fuller, PE
Environmental Analyst VII
Montpelier Regional Office
Drinking Water and Groundwater Protection Division

Dated October 17, 2023

cc: Craig D. Chase



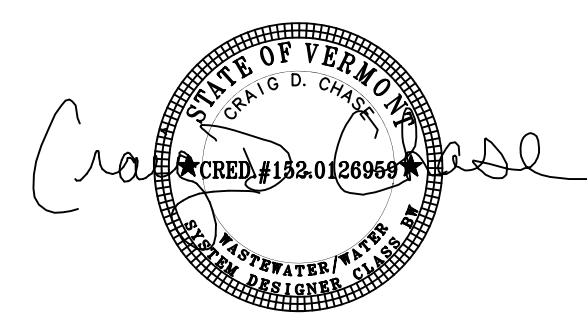
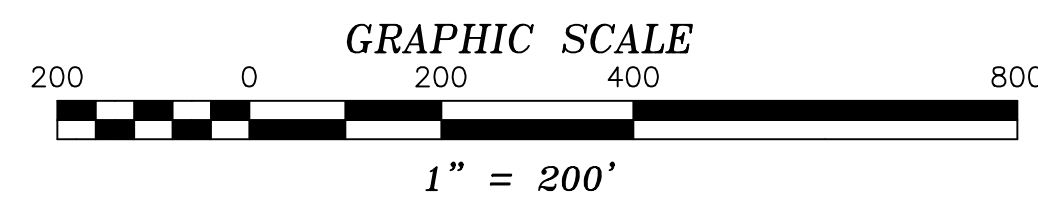
LOCATION MAP
NOT TO SCALE



- LEGEND:**
- ROAD RIGHT OF WAY LINE
 - PROPERTY LINE
 - - - PROPOSED PROPERTY LINE
 - - - LIMIT OF PROPOSED EASEMENT
 - UTILITY POLE
 - DRILLED WELL
 - - - - - EXISTING 5' LIDAR CONTOUR

NOTE: THIS IS NOT A SURVEY. THIS LOCUS IS BASED ON THE TOWN OF EAST MONTPELIER TAX MAPS AND SHALL NOT BE USED TO DESCRIBE LAND FOR THE PURPOSE OF THE TRANSFER OF TITLE OF LOT 3. ONLY LOTS 1 & 2 HAVE BEEN SURVEYED BY THIS FIRM.

VERMONT
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Drinking Water & Groundwater Protection Division
THIS IS SUBJECT TO PROVISIONS OR CONDITIONS LISTED IN PERMIT
Permit #: WW-5-9367
Date: 10/17/2023



OVERALL SUBDIVISION PLAN
DAVID E. ROGERS ESTATE
VT RTE 214
EAST MONTPELIER, VERMONT

SCALE: 1" = 200' | DATE: 9/8/2023 | PROJ#: 2020.002 | DWG#: 200021
DRAWN BY: TDM | CHECKED BY: WRC | FB/P/G: 93/ EFB | SHEET: OASP

Chase & Chase
301 North Main Street, Suite 1
Barre, Vt. 05641
802-479-9636
Surveyors & Septic
Designers, Inc

MATCHLINE
SITE PLAN B
SITE PLAN A

MATCHLINE
SITE PLAN B
SITE PLAN A

N 29°56'29" W
824.43'

LOT 1
10.48 Ac. ±
*AREA EXCLUSIVE OF LAND WITHIN
THE RIGHTS OF WAY OF VT. RTE 214

REMAINING LAND N/F OF
DAVID E. ROGERS ESTATE
BOOK 29 PAGE 97
PID: 08-058.000

OTHER LANDS N/F OF
DAVID E. ROGERS ESTATE
BOOK 39 PAGE 260
"PLAINFIELD DUMP LOT"
TAX MAP# 10-00-14.000

APPROX. LOCATION OF EXISTING
SEWER FORCEMAIN PER
REFERENCE 6.

APPROX. LOCATION OF EXISTING
SEPTIC TANK AND PUMP CHAMBER
(TANKS NOT VISIBLE - OBVIOUS
EARTHWORK)

EXISTING
3-BED S.F.R.

APPROX. LOCATION
EXISTING WATERLINE

EXISTING
DRILLED WELL

WELLHEAD PROTECTION SHIELD

TIE LINE
S 00°06'57" E
252.59'

L=253.32'
R=889.82'

S 08°14'46" E
112.96'

TIE LINE
S 00°53'53" E
113.87'
TO UNMARKED POINT

R=445.15'
L=113.94'

N 75°19'49" W
349.77'
350.00' (R2 & D)
UNMARKED POINT TO ROD

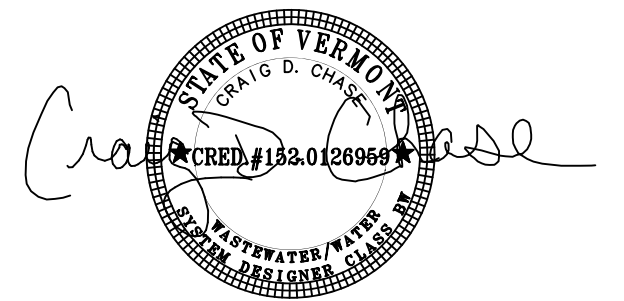
S 75°19'49" E
0.31'
UNMARKED POINT TO ROD

VT RTE 214

LEGEND:

- ROAD RIGHT OF WAY LINE
- PROPERTY LINE
- PROPOSED PROPERTY LINE
- GUARD RAIL
- SETBACK LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- OVERHEAD UTILITY LINE
- TIE LINE
- EDGE OF WOODS
- IRON ROD FOUND (DIA., HT.)
- #5 REBAR SET W/ I.D. CAP
- UNMONUMENTED POINT
- UTILITY POLE
- PER DEED
- PER REFERENCE #
- N/F OR FORMERLY
- DRILLED WELL
- EXISTING 5' LIDAR CONTOUR
- SOILS TEST PIT

VERMONT
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Drinking Water & Groundwater Protection Division
THIS IS SUBJECT TO PROVISIONS
OR CONDITIONS LISTED IN PERMIT
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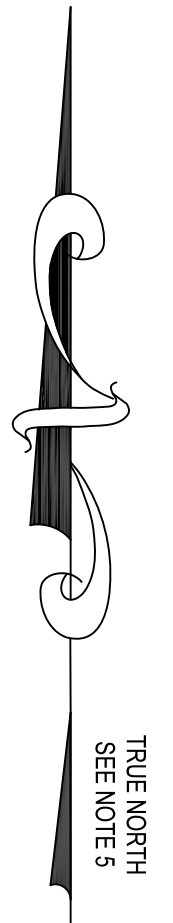
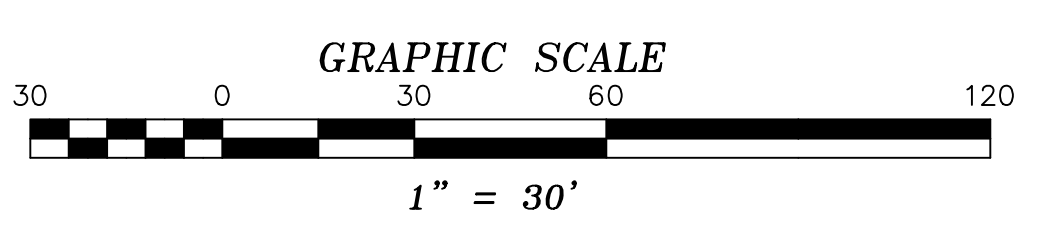
REVISED: 10/16/23 - APPROX. TANKAGE AND FORCEMAIN LOCATION ADDED - KJK

LOT 1 SITE PLAN A
DAVID E. ROGERS ESTATE
1307 VT ROUTE 214
EAST MONTPELIER, VERMONT

SCALE: 1" = 30' DATE: 9/11/23 PROJ# 2020 002 DWG# 20002D
DRAWN BY: KJK CHECKED BY: CDC FB/PG: 93/ EFB SHEET: SP1A

Chase & Chase
301 North Main Street, Suite 1
Barre, Vt. 05641
802-479-9636
Surveyors & Septic
Designers, Inc

REFERENCES:
6. A PLAN ENTITLED "SUBDIVISION AND SEPTIC PLANS FOR DAVID ROGERS,
ROUTE 214, EAST MONTPELIER, VERMONT" BY TODD HILL, SITE TECHNICIAN #341,
DATED DECEMBER 28, 1993 AS FOUND IN THE 1994 SEPTIC FILES OF THE TOWN
OF EAST MONTPELIER IN FILE #1-94.



REMAINING LAND N/F OF
DAVID E. ROGERS ESTATE
BOOK 29 PAGE 97
PID: 08-058.000

REMAINING LAND N/F OF
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REMAINING LAND N/F OF
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BOOK 29 PAGE 97
PID: 08-058.000

LOT 1
10.48 Ac. ±
*AREA EXCLUSIVE OF LAND WITHIN
THE RIGHTS OF WAY OF VT RTE 214

MATCHLINE SITE PLAN B
SITE PLAN A

MATCHLINE SITE PLAN B
SITE PLAN A

LEGEND:

- ROAD RIGHT OF WAY LINE
- PROPERTY LINE
- - - PROPOSED PROPERTY LINE
- GUARD RAIL
- - - SETBACK LINE
- - - EDGE OF PAVEMENT
- - - EDGE OF GRAVEL
- - - OVERHEAD UTILITY LINE
- - - TIE LINE
- - - EDGE OF WOODS
- ⊙ IRON ROD FOUND (DIA., HT.)
- #5 REBAR SET W/ I.D. CAP
- ▲ UNMONUMENTED POINT
- UTILITY POLE
- (D) PER DEED
- (R1) PER REFERENCE #
- N/F NOW OR FORMERLY
- ⊙ DRILLED WELL
- EXISTING 5' LIDAR CONTOUR
- ⊙ SOILS TEST PIT

SOIL TEST PIT DATA

LOGGED BY C.D. CHASE, CARL FULLER PRESENT

TP #5
0" - 6": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
6" - 18": 10YR-4-6; VERY FINE SANDY LOAM, FRIABLE, SUBANGULAR/BLOCKY
18" - 36": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
E.S.H.W.T. @ 18" - DENSITY

TP #6
0" - 6": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
6" - 18": 10YR-4-6; VERY FINE SANDY LOAM, FRIABLE, SUBANGULAR/BLOCKY
18" - 36": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
E.S.H.W.T. @ 18" - DENSITY

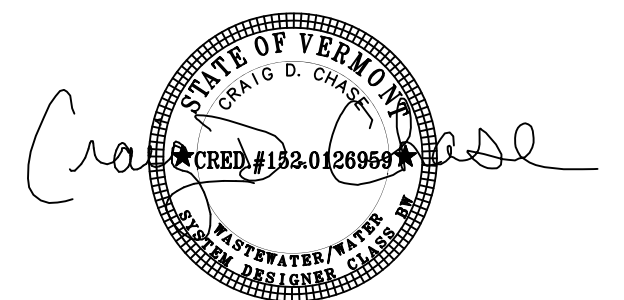
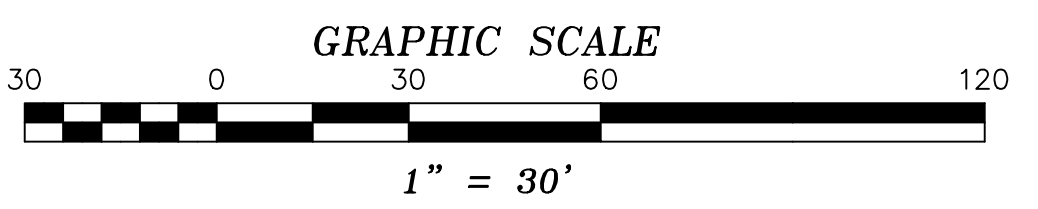
TP #7
0" - 6": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
6" - 16": 10YR-4-6; VERY FINE SANDY LOAM, FRIABLE, SUBANGULAR/BLOCKY
16" - 24": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
E.S.H.W.T. @ 18" - DENSITY

REPLACEMENT AREA DESIGN CALCULATIONS

DEPTH TO S.H.W.T. = 18" - USE 18" MOUND
3-BED RESIDENCE = 420 GPD
MOUND BED AREA: $\frac{420 \text{ GPD}}{1.0 \text{ G/SF/DAY}} = 420 \text{ SF}$. USE 10' WIDE x 42' LONG BED = 420 SF

BASAL AREA: LOADING RATE V.F.S.L. = 0.74 GAL/SF/DAY
REQ'D AREA = 420 GPD/0.74 = 568 SF
AREA PROVIDED (2:1 SLOPE) = 1105 SF - OK

REFERENCES:
6. A PLAN ENTITLED "SUBDIVISION AND SEPTIC PLANS FOR DAVID ROGERS, ROUTE 214, EAST MONTPELIER, VERMONT" BY TODD HILL, SITE TECHNICIAN #341, DATED DECEMBER 28, 1993 AS FOUND IN THE 1994 SEPTIC FILES OF THE TOWN OF EAST MONTPELIER IN FILE #1-94.



VERMONT
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Drinking Water & Groundwater Protection Division
THIS IS SUBJECT TO PROVISIONS
OR CONDITIONS LISTED IN PERMIT
Permit #: WW-5-9367
Date: 10/17/2023

REVISED: 10/16/23 - APPROX. FORCEMAIN LOCATION ADDED - KkJ

LOT 1 SITE PLAN B
DAVID E. ROGERS ESTATE
1307 VT ROUTE 214
EAST MONTPELIER, VERMONT

SCALE: 1" = 30' DATE: 9/11/23 PROJ# 2020 002 DWG# 20002E
DRAWN BY: KkJ CHECKED BY: CDC FB/PG: 93/ EFB SHEET SP1B

Chase & Chase
301 North Main Street, Suite 1
Barre, Vt. 05641
802-479-9636
Surveyors & Septic
Designers, Inc

REFERENCES:
 5. A PLAN ENTITLED "PLAN OF SEPTIC DESIGN FOR DAVID ROGERS, ROUTE 214, NORTH MONTPELIER, VERMONT" BY THIS FIRM, CRAIG E. CHASE, DATED NOVEMBER 1, 2001 AS FOUND IN THE 2001 SEPTIC FILES OF THE TOWN OF EAST MONTPELIER IN FILE # 22-01.

SOIL TEST PIT DATA
 BACKHOE EXCAVATED 1/30/2020; LOGGED BY C.D. CHASE, CARL FULLER PRESENT

TP #1
 0" - 4": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 4" - 24": 10YR-4-6; VERY FINE SANDY LOAM, FRIABLE, SUBANGULAR/BLOCKY
 24" - 40": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
 E.S.H.W.T. @ 24" - DENSITY

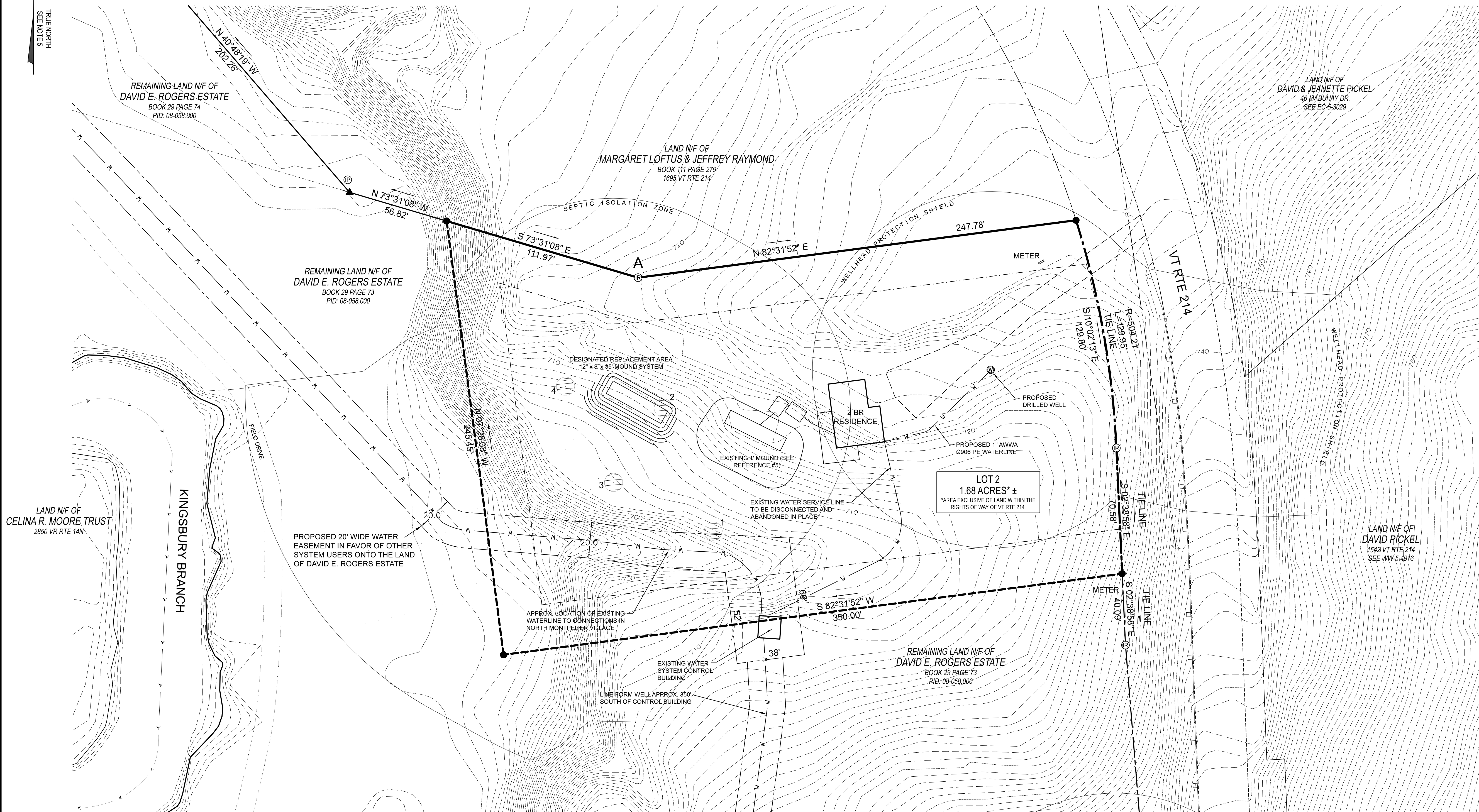
TP #2
 0" - 4": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 4" - 24": 10YR-5-6; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 24" - 42": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
 E.S.H.W.T. @ 24" - DENSITY

TP #3
 0" - 4": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 4" - 24": 10YR-4-6; VERY FINE SANDY LOAM, FRIABLE, SUBANGULAR/BLOCKY
 24" - 40": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
 E.S.H.W.T. @ 24" - DENSITY

TP #4
 0" - 4": 10YR-4-4; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 4" - 24": 10YR-5-6; VERY FINE SANDY LOAM, LOOSE, SUBANGULAR/BLOCKY
 24" - 42": 10YR-5-3; SILT, FIRM IN PLACE, FRIABLE IN HAND, STRONG SUBANGULAR/BLOCKY
 E.S.H.W.T. @ 24" - DENSITY

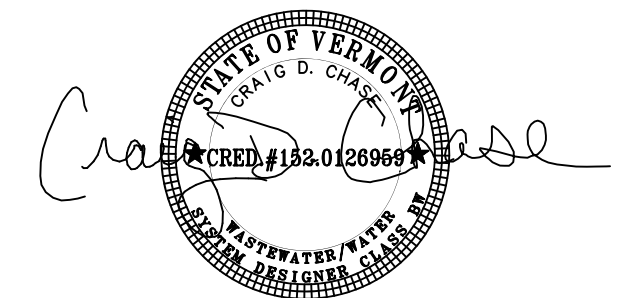
REPLACEMENT AREA DESIGN CALCULATIONS
 DEPTH TO S.H.W.T. = 24" - USE 12" MOUND
 2-BED RESIDENCE = 280 GPD
 MOUND BED AREA: $\frac{280 \text{ GPD}}{1.0 \text{ G/SF/DAY}} = 280 \text{ SF}$; USE 8' WIDE x 35' LONG BED = 280 SF

BASAL AREA: LOADING RATE V.F.S.L. = 0.74 G/SF/DAY
 REQ'D AREA = 280 GPD/0.74 = 378 SF
 AREA PROVIDED (2:1 SLOPE) = 675 SF - OK



- LEGEND:**
- ROAD RIGHT OF WAY LINE
 - PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - GUARD RAIL
 - SETBACK LINE
 - EDGE OF PAVEMENT
 - EDGE OF GRAVEL
 - OVERHEAD UTILITY LINE
 - TIE LINE
 - EDGE OF WOODS
 - IRON ROD FOUND (DIA. . HT.)
 - #5 REBAR SET W/ I.D. CAP
 - UNMONUMENTED POINT
 - UTILITY POLE
 - PER DEED
 - (R1) PER REFERENCE #
 - N/F NOW OR FORMERLY
 - DRILLED WELL
 - EXISTING 5' LIDAR CONTOUR
 - APPROXIMATE WATER LINE
 - LIMIT OF PROPOSED EASEMENT
 - SOILS TEST PIT

VERMONT
 DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Drinking Water & Groundwater Protection Division
 THIS IS SUBJECT TO PROVISIONS
 OR CONDITIONS LISTED IN PERMIT
 Permit #: WW-5-9367
 Date: 10/17/2023



LOT 2 SITE PLAN
 DAVID E. ROGERS ESTATE
 1657 VT ROUTE 214
 EAST MONTPELIER, VERMONT

SCALE: 1" = 30' DATE: 9/11/23 PROJ# 2020 002 DWG# 20002F
 DRAWN BY: KJG CHECKED BY: CDC FB/PG: 93/ EFB SHEET SP2

Chase & Chase
 301 North Main Street, Suite 1
 Barre, Vt. 05641
 802-479-9636
 Surveyors & Septic
 Designers, Inc

