Shoreland Protection Permit Application

Under Chapter 49A of Title 10, § 1441 et seq.

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
LAKES & PONDS PROGRAM

Application Number: *For Shoreland Permitting Use Only*	2790-SP

Submission of this application constitutes notice that the person in Section A intends to create impervious surface and/or cleared area within the Protected Shoreland Area, and certifies that the project will comply with Chapter 49A of Title 10, § 1441 et seq. All information required on this form must be provided, and the requisite fees (Section I) must be submitted made payable to the State of Vermont, to be deemed complete. Refer to the Application Instructions for guidance in completing this application.

A. Parcel Information

1. Landowner's Name: Ron & Cheryl Oviedo	RECEIVED FEB 14 2019 WSMD
2a. Physical Address (911 Address): 481 Stone Shore Road	
2b. Town - County: Glover - Orleans	2c. Zip: 05839
3a. SPAN (###-###-#####): 243-077-10486	(The School Parcel Account Number can be obtained from your property tax bill or requested from your Town
3b. Coordinates: (decimal degrees, can be found on Google Maps) Latitude 44.669777	Longitude -72.222572
4. Phone:	5. Email:
6. Name of Lake/Pond: Shadow Lake - Glover	7. Total Shore Frontage 220 feet
8. Was the parcel of land created before July 1, 2014?	(●) Yes ( ) No
9. Are there wetlands associated with or adjacent to this parcel? Contact the Wetlands Program (802) 828-1535 or http://dec.vermont.gov/watershed/wetlands	( ) Yes (●) No

10. Have you ever applied for a permit with the Agency of Natural Resources associated with this parcel? If so, please describe (e.g. Wetlands, Act 250, Wastewater, etc.). Wastewater & Water Supply

11. Calculate the square footage of your parcel within the Protected Shoreland Area (250 feet from mean water level):	28,750 Sq. ft
12. Calculate the square footage of all **existing impervious surfaces** within 250 feet of mean water level (e.g., all structures, decks, patios, paved and unpaved driveways, parking areas, etc.):	4,434 Sq. ft
13. Calculate the square footage of the **existing cleared area** within 250 feet of mean water level (cleared area includes all impervious surfaces plus maintained lawn and landscaped areas):	9,265 Sq. ft

B. Applicant Contact Information

1. Name: Ron & Cheryl oviedo		
2a. Mailing Address: 1837 Pacific Ave, #215		
2b. Town: Forest Grove	2c. State OR	2d. Zip 97116
3. Phone: 503 793-2237	4. Email ron.g.oviedo@intel.com	

5a. Have you completed the voluntary Natural Shoreland Erosion Control Certification course? ( ) Yes (●) No

5b. If yes, please include the location and year you attended the course. A list of certified contractors is also available online.

C. Application Preparer Information (If the individual preparing the application is not the landowner)

1. Name: Tyler Mumley, P.E.

2a. Mailing Address: 5 Lake Street

2b. Town: St.Albans	2c. State: VT	2d. Zip: 05478
3. Phone: 802 524-9300	4. Email: tyler@mumleyinc.com	

5a. Have you completed a voluntary Natural Shoreland Erosion Control Certification course? ○ Yes ◉ No

5b. If yes, please include the location and year you attended the course. A list of certified contractors is also available online.

D. Project Description

1. Describe the proposed project. For this application to be considered administratively complete you must include:
   a) site plans that show the dimensions of existing and proposed cleared areas and impervious surface, and distances from mean water level;
   b) no fewer than three photos of the project area.

The landowners, Ron & Cheryl Oviedo, propose to remove the existing camp on their ±0.66-acre parcel at 481 Stone Shore Road on Shadow Lake in Glover, Vermont. They propose to construct a new 3-bedroom single family dwelling in the same location of the existing camp and construct a new garage with a 1-bedroom apartment near the roadway. The existing driveway will be removed, and a new driveway will be constructed. The project site includes lake shoreline on the west side and abuts Stone Shore Road to the east. The site slopes towards the lake at an existing average grade of approximately 15%. Please see attached sheets C-1 and C-2 for details.

The site exists with approximately 15% impervious area and 32% cleared area. The proposed changes to the site will result in approximately 19% impervious area and 46% cleared area, but approximately 7% of the site (the area of the

2. For **developed** parcels, how far is the existing habitable structure from Mean Water Level 25 (feet) and how far will new cleared area or impervious surface be from MWL 25 (feet)?

OR

For **undeveloped** parcels, how far will new cleared area or impervious surface be from MWL N/A (feet)?

3a. What is the slope of the project area: 15 %	3b. Is the slope of the project area less than 20%? If yes, skip Question 3c. ◉ Yes ○ No

3c. If no above (3b), describe the measures taken to ensure the slope is stable, resulting in minimal erosion and impacts to water quality:

Any disturbed areas over 20% slope will receive erosion control matting.

4a. What is the surface area of new impervious surface associated with this project: 1,125.0 square feet	4b. What is the **total resulting impervious surface** after completion of the project and prior to implementation of best management practices: 5,559.0 square feet **(Question A12 + Question D4a = total resulting impervious surface)**

4c. Is the total resulting impervious surface 20% or less of the parcel area within the PSA? If you are not creating any new impervious surface, check N/A. If yes, skip Question 4c. ◉ Yes ○ No ○ N/A

Question D4b. ÷ Question A11. = 19.0 % impervious surface

4d. If no above (4c), describe the best management practices used to manage, treat, and control erosion generated by stormwater runoff from the portion of impervious surface that exceeds 20%:

5a. What is the surface area of new cleared area associated with this project: 3,832.0 square feet	5b. What is the **total resulting cleared area** after completion of the project and prior to implementation of best management practices: 13,097.0 square feet **(Question A13 + Question D5a = total resulting cleared area)**

5c. Is the total resulting cleared area 40% or less of the parcel area within the PSA? If you are not creating any new cleared area, check N/A. If yes, skip Question 5c. ○ Yes ◉ No ○ N/A

Question D5b. ÷ Question A11. = 46.0 % cleared area

5d. If no above (5c), establishing vegetative cover (revegetation) equal to or greater in surface area than the proposed new cleared area is the only acceptable best management practice. Identify area and location on the parcel of the proposed revegetation.

An area of 1,973 square feet located in the area of the existing driveway will be established with vegetative cover and remain otherwise undisturbed/wooded. The net result is 39% cleared area of the entire parcel after establishing vegetative cover.

E. Landowner Certification

As APPLICANT, I hereby certify that the statements presented on this application are true and accurate and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the Shoreland Protection Act, 10 V.S.A. Chapter 49A, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant/Landowner Signature Cheryl Ouimette / Ron Brueda Date: 2-7-2019

F. Application Preparer Certification (if applicable)

As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature Jay Mundy Date: 2-11-19

G. Adjoining Property Owner Notification

☑ I certify, by initialing to the left, that I have notified adjoining property owners of the proposed project using the letter template sent by U.S. Mail, as described in the Adjoining Property Owner Notification Guidance.

H. Additional Required Documentation (*Please check to ensure you have completed the following*)

- ☑ All sections of the application are complete (or otherwise indicate "not applicable")
- ☑ Application includes site plans denoting existing and proposed cleared area and impervious surface
- ☑ Project description includes dimensions and distances to mean water level
- ☑ Application includes photos of project area

I. Permit Application Fees (Administrative Processing + Application Review Fee)

Administrative Processing Fee: $125.00		**$ 125.00**
Application Review Fee: $0.50 per square ft. of **new impervious surface**	0.5 x 1,125.0 (from Question D4a) =	+ $ 562.50
Total Fee due:		= $ 687.50

Submit application materials to:

Vermont Department of Environmental Conservation
Watershed Management Division – Shoreland Permitting
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Refund Policy

- If an application is modified, withdrawn or denied after technical review has commenced; all fees are retained.
- If an application is withdrawn prior to administrative review; all fees will be refunded.
- If an application is withdrawn after administrative review but prior to commencement of technical review, deemed administratively incomplete and returned to applicant, or determined that a permit is not required; administrative fees are retained, and application review fees will be refunded.

RUGGIANO Engineering, inc.

5 Lake Street
St. Albans, VT 05478
Telephone (802) 524-9300
Fax (802) 524-9700
www.ruggianoengineering.com

LETTER OF TRANSMITTAL

DATE: February 12, 2019	JOB NO: 18032
ATTENTION: Shoreland Permitting	
RE: 481 Stone Shore Road, Glover, VT	

TO: State of VT – DEC
Watershed Management Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

WE ARE SENDING YOU ☒ Attached ☐ Under Separate Cover via _____

☐ Shop Drawings ☐ Prints ☒ Plans ☐ Samples ☐ Specifications

☒ Copy of letter ☒ Application ☐ Change Order ☒ Other

COPIES	DATE	NO.	DESCRIPTION
1	2/5/19	2 pgs	Letter from Tyler Mumley, P.E.
1	2/11/19	3 pgs	Shoreland Protection Permit Application
1		2 pgs	Photographs (4 total)
1	2/7/19		Plan Set -C1 Site Plan; C2 Details; C3 Details
1			Proposed Conditions Plan
1			Existing Conditions Plan
1	2/11/19	1113	Check - $687.50 Fee

RECEIVED
FEB 14 2019
WSMD

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☐ As requested ☐ Returned for correction ☐ Return _____ corrected prints

☐ For review and comment _____

☐ For Bids Due: _____ ☐ Prints/other returned after loan to us

REMARKS:
COPY TO:

SIGNED: *Kim Ruggiano for Tyler Mumley*
For: RUGGIANO ENGINEERING

If enclosures are not as noted, kindly notify us at once.

RUGGIANO engineering, inc.

Civil Engineers • Land Use Planners

February 5, 2019

Watershed Management Division – Shoreland Permitting
Vermont Department of Environmental Conservation
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Subject: **Proposed Shoreline Development** **Project: 18032**
Ron & Cheryl Oviedo
481 Stone Shore Road, Glover, VT

Dear Shoreland Permitting:

Please find enclosed a Shoreland Protection Permit Application for the reference project. The landowners, Ron & Cheryl Oviedo, propose to remove the existing camp on their ±0.66-acre parcel at 481 Stone Shore Road on Shadow Lake in Glover, Vermont. They propose to construct a new 3-bedroom single family dwelling in the same location of the existing camp and construct a new garage with a 1-bedroom apartment near the roadway. The existing driveway will be removed, and a new driveway will be constructed. The project site includes lake shoreline on the west side and abuts Stone Shore Road to the east. The site slopes towards the lake at an existing average grade of approximately 15%. Please see attached sheets C-1 and C-2 for details.

The site exists with approximately 15% impervious area and 32% cleared area. The proposed changes to the site will result in approximately 19% impervious area and 46% cleared area, but approximately 7% of the site (the area of the existing driveway) will be re-vegetated for a total net cleared area of 39%. Please see the following breakdown and attached sketches of existing and proposed impervious and cleared areas. These calculations exclude the proposed wastewater disposal mound system, as per the Shoreline regulations.

Property area (SF) =	**28,750**

Existing Conditions (SF)	
Existing Building #1:	502
Existing Building #2:	74
Existing Pavement #1:	1,854
Existing Pavement #2:	140
Existing Gravel #1:	899
Existing Gravel #2:	541
Existing Deck #1:	149

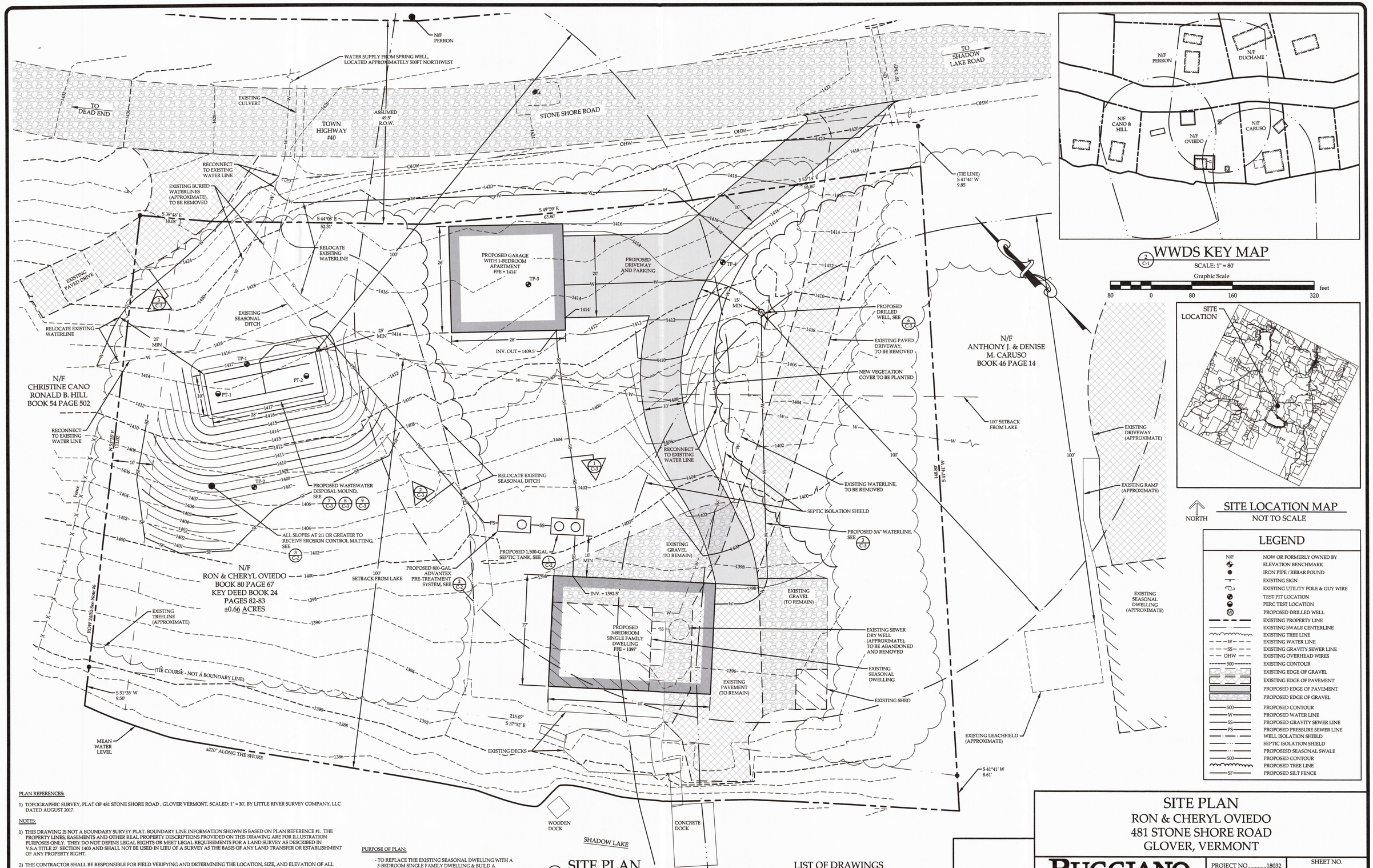
Existing Deck #2:	275
TOTAL IMPERVIOUS:	**4,434**
% =	15%
Existing Cleared Area:	9265.48
	32%

Proposed Site Plan (SF)	
Proposed Building #1:	1,080
Proposed Building #2:	728
Existing Building #2:	74
Proposed Pavement:	1,602
Existing Pavement #1:	685
Existing Pavement #2:	140
Existing Gravel #1:	376
Existing Gravel #2:	450
Existing Deck #1:	149
Existing Deck #2:	275
TOTAL IMPERVIOUS:	**5,559**
% =	19%
Proposed Cleared Area:	13,097
Proposed Re-Vegetated Area #1:	1,973
TOTAL (NET):	**11,124**
% =	39%

We appreciate your time and consideration for this project. If you have any questions, please don't hesitate to contact me at our office at 802-524-9300.

Sincerely,
Ruggiano Engineering

Tyler Mumley, P. E.



WWDS KEY MAP

2/C-1

SCALE: 1" = 80'

Graphic Scale

80 0 80 160 320 feet

SITE LOCATION

SITE LOCATION MAP

NORTH

NOT TO SCALE

LEGEND

N/F	NOW OR FORMERLY OWNED BY
	ELEVATION BENCHMARK
	IRON PIPE / REBAR FOUND
	EXISTING SIGN
	EXISTING UTILITY POLE & GUY WIRE
	TEST PIT LOCATION
	PERC TEST LOCATION
W	PROPOSED DRILLED WELL
	EXISTING PROPERTY LINE
	EXISTING SWALE CENTERLINE
	EXISTING TREE LINE
-W-	EXISTING WATER LINE
-SS-	EXISTING GRAVITY SEWER LINE
-OHW-	EXISTING OVERHEAD WIRES
500	EXISTING CONTOUR
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF GRAVEL
500	PROPOSED CONTOUR
W	PROPOSED WATER LINE
SS	PROPOSED GRAVITY SEWER LINE
PS	PROPOSED PRESSURE SEWER LINE
	WELL ISOLATION SHIELD
	SEPTIC ISOLATION SHIELD
	PROPOSESD SEASONAL SWALE
500	PROPOSED CONTOUR
	PROPOSED TREE LINE
SF	PROPOSED SILT FENCE

PLAN REFERENCES:

1) TOPOGRAPHIC SURVEY, PLAT OF 481 STONE SHORE ROAD , GLOVER VERMONT, SCALED: 1" = 30', BY LITTLE RIVER SURVEY COMPANY, LLC DATED AUGUST 2017.

NOTES:

1) THIS DRAWING IS NOT A BOUNDARY SURVEY PLAT. BOUNDARY LINE INFORMATION SHOWN IS BASED ON PLAN REFERENCE #1. THE PROPERTY LINES, EASEMENTS AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THIS DRAWING ARE FOR ILLUSTRATION PURPOSES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN V.S.A. TITLE 27 SECTION 1403 AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION. APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK.

3) THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" BEFORE COMMENCING ANY WORK AND SHALL PRESERVE ALL EXISTING UTILITIES NOT SPECIFIED TO BE REMOVED OR ABANDONED AS PART OF THE PROJECT.

PURPOSE OF PLAN:

- TO REPLACE THE EXISTING SEASONAL DWELLING WITH A 3-BEDROOM SINGLE FAMILY DWELLING & BUILD A GARAGE WITH A 1-BEDROOM APARTMENT.

OWNER OF RECORD:

-RON & CHERYL OVIEDO
481 STONE SHORE ROAD
GLOVER, VT 05389

SITE PLAN

1/C-1

SCALE: 1" = 10'

Graphic Scale

10 0 10 20 40 feet

LIST OF DRAWINGS

SITE PLAN

RON & CHERYL OVIEDO
481 STONE SHORE ROAD
GLOVER, VERMONT

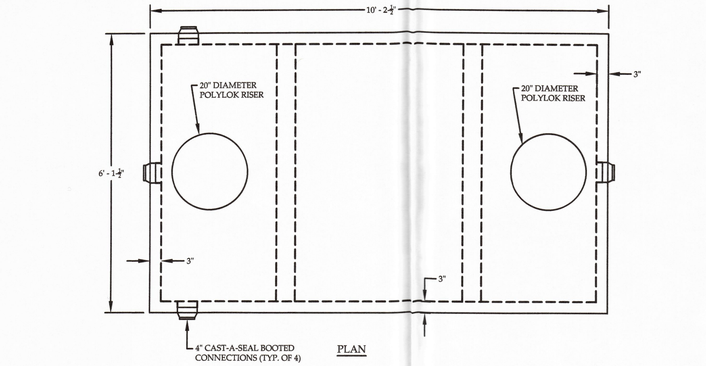
RUGGIANO Engineering
5 LAKE STREET
ST. ALBANS, VERMONT 05478
PHONE - (802) 524-9300 FAX - (802) 524-9700

PROJECT NO.....18032
DRAWN BY.....DEW
CHECKED BY.....TRM
SCALE.....1" = 10'
DATE.....02/07/19

SHEET NO.

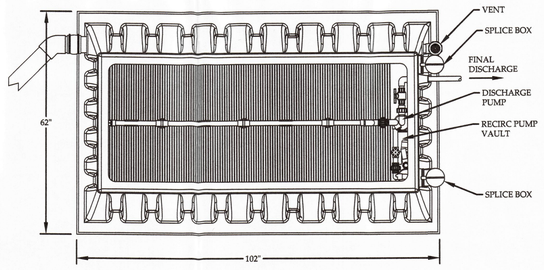
C-1

1 OF 3 SHEETS

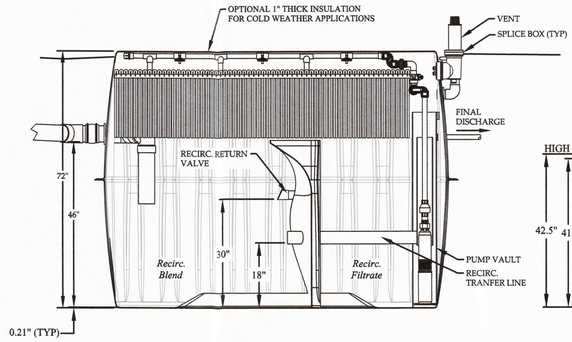


1/C-2 1,500 GALLON SEPTIC TANK

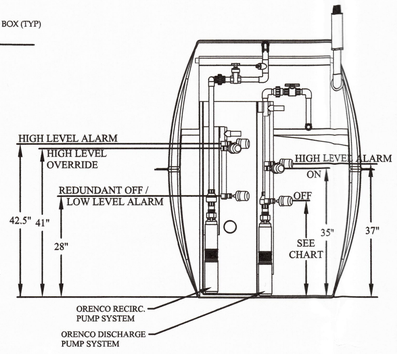
NOT TO SCALE



AX25 800 GAL. RECIRC. TANK - TOP VIEW



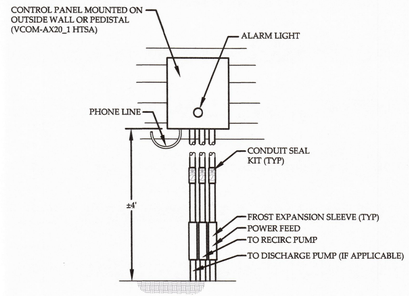
AX25 800 GAL. RECIRC. TANK - SECTION VIEW



DISCHARGE CHAMBER - END VIEW

2/C-2 AX25RT TREATMENT SYSTEM - PUMP DISCHARGE

NOT TO SCALE



ELECTRICAL NOTES:

1) REQUIRED CIRCUITS FROM MAIN BREAKER PANEL:
   (1)20A & (1)30A 115V [PREFERRED: (1)20A, (2)30A]
2) REQUIRED CIRCUITS FROM CONTROL PANEL TO EACH SPLICE BOX:
   (4) #14AWG THHN (STRANDED), (3) #12AWG THHN (STRANDED) IN ¾" C.

DESIGN NOTES

EXPECTED FLOWS	EXPECTED INFLUENT QUALITY	TYPICAL EFFLUENT QUALITY
Q_{PEAK} = 560 GPD	GREASE & OIL: 20 MG/L	BOD: < 10 MG/L
UP TO 4 BEDROOMS	BOD: 150 MG/L	TSS: < 10 MG/L
	TSS: 40 MG/L	TN: < 25 MG/L
	TKN: 65 MG/L	

GENERAL NOTES:

1) PHONE LINE WITH MINIMUM SERVICE IS REQUIRED. DOES NOT NEED TO BE A DEDICATED LINE.
2) TANK COORDINATION AND APPROVAL BY WTI IS REQUIRED PRIOR TO CONSTRUCTION. TANK MUST MEET MINIMUM STRUCTURAL STANDARDS AND BE TESTED FOR WATERTIGHTNESS.
3) FLOAT AND RSV SETTINGS BASED ON TYPICAL FLOW APPLICATIONS - MAY BE MODIFIED BASED UPON DESIGN/FIELD VERIFICATION.
4) MANUFACTURER REQUIRES THIS SYSTEM TO BE INSTALLED AND MAINTAINED BY A TRAINED/AUTHORIZED INSTALLER/MAINENANCE PROVIDER. FAILURE TO MAINTAIN AN ONGOING O&M CONTRACT MAY RESULT IN VOIDING OF ANY/ALL WARRANTIES. OTHER STATE AND/OR LOCAL REQUIREMENTS OR REGULATIONS MAY APPLY.
5) FOR MORE DETAILS REGARDING COMPONENTS, INSTALLATION OR OPERATION OF THIS SYSTEM; PLEASE CONTACT WASTEWATER TECHNOLOGIES, INC. MILTON, VT 877-212-3219

ELECTRICAL DETAILS & NOTES

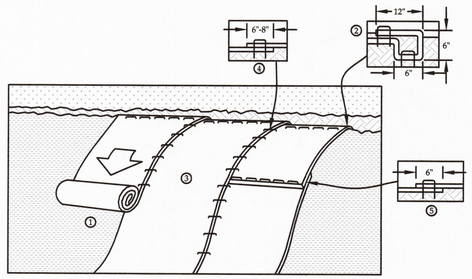
NOT TO SCALE

WASTEWATER SYSTEM DRAINAGE SUMMARY

LOT #	DESIGN FLOW (GPD)	HOUSE INV. OUT	SEPTIC TANK INV. IN	SEPTIC TANK INV. OUT	PUMP STATION INV. IN	ALARM ON	PUMP ON	PUMP OFF	LATERAL INV.
1	560	1393.50'	1393.29'	1393.04'	1392.94'	1391.88'	1391.71'	1390.41'	1415.50'

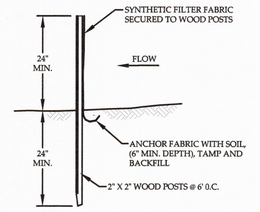
NOTES:

1) PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKET (ECB) INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2) BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECB IN A 6" DEEP, 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3) ROLL THE BLANKET DOWN THE SLOPE. BLANKET WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4) THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" - 8" OVERLAP DEPENDING ON BLANKET TYPE.
5) CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6) IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.
7) THE USE OF WELDED PLASTIC MATTING IS NOT PERMITTED. ALL EROSION CONTROL MATTING MUST BE BIODEGRADABLE AND DEGRADE IN 6-24 MONTHS, DEPENDING ON THEIR MAKEUP.



3/C-2 EROSION CONTROL BLANKET - SLOPE INSTALLATION

NOT TO SCALE



4/C-2 SILT FENCE DETAIL

NOT TO SCALE

DETAILS
RON & CHERYL OVIEDO
481 STONE SHORE ROAD
GLOVER, VERMONT

RUGGIANO Engineering
5 LAKE STREET
ST. ALBANS, VERMONT 05478
PHONE - (802) 524-9300 FAX - (802) 524-9700

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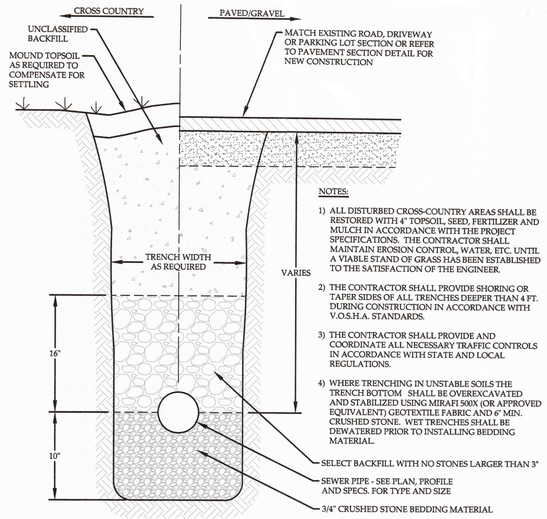
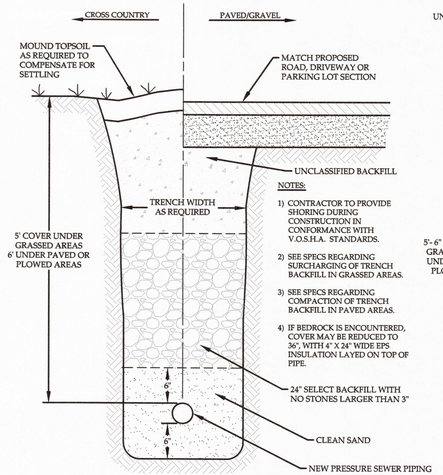
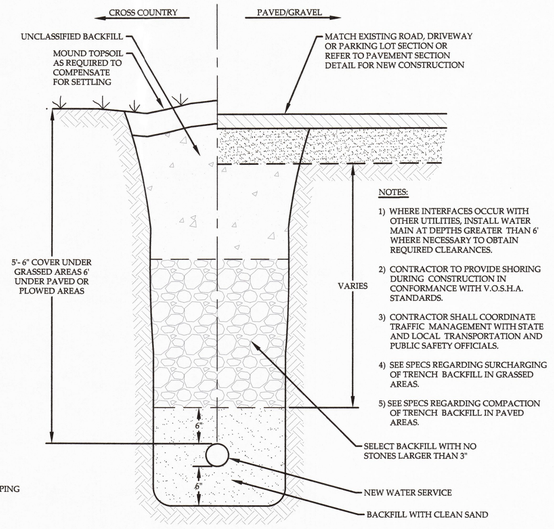
SHEET NO.
C-2
2 OF 3 SHEETS



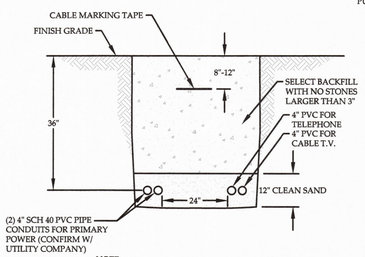
1 C-3 TYPICAL SANITARY SEWER TRENCH
NOT TO SCALE



2 C-3 PRESSURE SEWER TRENCH
NOT TO SCALE

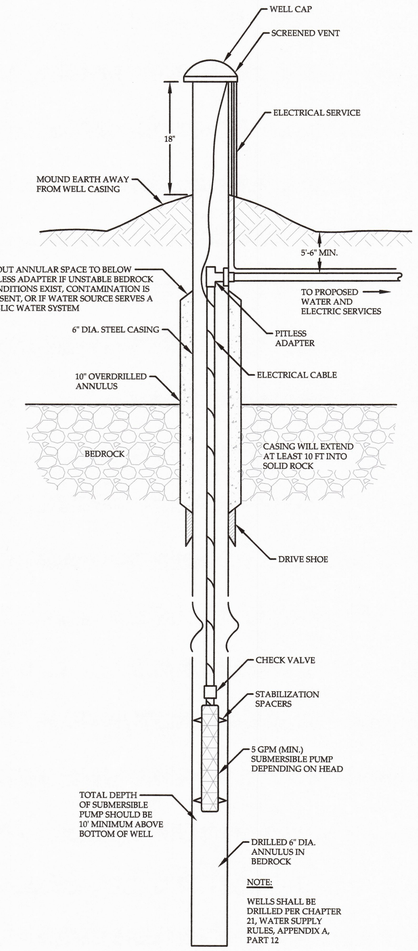


3 C-3 TYPICAL WATER LINE TRENCH
NOT TO SCALE



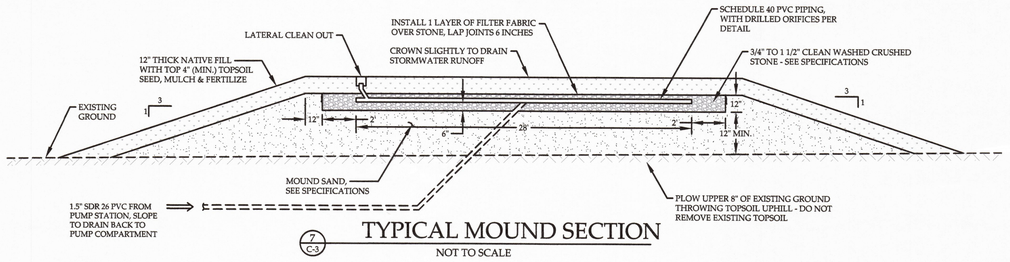
NOTE:
THE GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH ALL APPLICABLE UTILITY COMPANIES.

4 C-3 UTILITY TRENCH
NOT TO SCALE

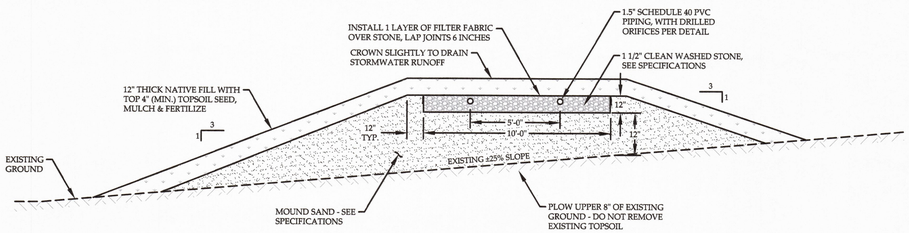


NOTE:
WELLS SHALL BE DRILLED PER CHAPTER 21, WATER SUPPLY RULES, APPENDIX A, PART 12

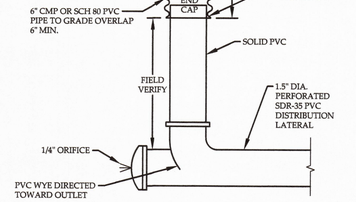
5 C-3 BEDROCK WELL DETAIL
NOT TO SCALE



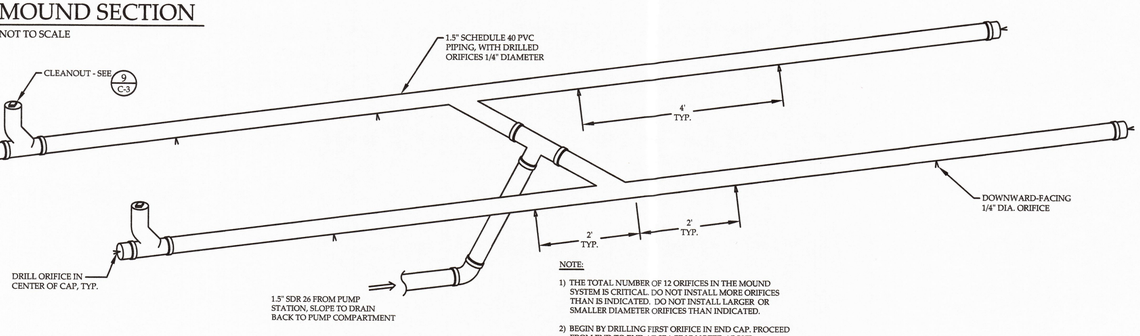
7 C-3 TYPICAL MOUND SECTION
NOT TO SCALE



6 C-3 TYPICAL MOUND SECTION
NOT TO SCALE



9 C-3 LATERAL CLEAN-OUT
NOT TO SCALE



NOTE:
1) THE TOTAL NUMBER OF 12 ORIFICES IN THE MOUND SYSTEM IS CRITICAL. DO NOT INSTALL MORE ORIFICES THAN IS INDICATED. DO NOT INSTALL LARGER OR SMALLER DIAMETER ORIFICES THAN INDICATED.
2) BEGIN BY DRILLING FIRST ORIFICE IN END CAP. PROCEED FROM END TO END AT SPACING NOTED ABOVE.

8 C-3 DISTRIBUTION LATERALS
NOT TO SCALE

ALLOWABLE MOUND SAND SIEVE ANALYSES

MOUND SAND SHALL MEET ONE OF THE FOLLOWING SIEVE ANALYSES. INTERPOLATION OF ANALYSES IS NOT PERMITTED. REFER TO E.P.R. SECTION 1-517 (C). SUBMIT RESULTS OF SIEVE ANALYSIS TO ENGINEER PRIOR TO CONSTRUCTION. ONCE DELIVEREED ON-SITE AND PLACED IN THE PREPARED MOUND SITE AREA, THE DESIGNER SHALL COLLECT A SAMPLE OF THE FILL MATERIAL FOR TESTING AND CONFIRMATION WITH THE SIEVE REQUIREMENTS.

SIEVE NUMBER	OPENING, (MM)	PERCENT PASSING, BY WEIGHT
3/8	9.500	85 - 100
40	0.420	25 - 75
60	0.240	0 - 30
100	0.149	0 - 10
200	0.074	0 - 5
4	4.750	95 -100
8	2.380	80 -100
16	1.190	50 - 85
30	0.590	25 - 60
50	0.297	10 - 30
100	0.149	2 - 10
3/8	9.500	85 -100
40	0.420	30 - 50
200	0.074	0 - 5

DETAILS
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481 STONE SHORE ROAD
GLOVER, VERMONT

RUGGIANO Engineering
5 LAKE STREET
ST. ALBANS, VERMONT 05478
PHONE - (802) 524-9300 FAX - (802) 524-9700

PROJECT NO.....18032
DRAWN BY.....DEW
CHECKED BY.....TRM
SCALE.....NTS
DATE.....02/07/19

SHEET NO.
C-3
3 OF 3 SHEETS

EXISTING CONDITIONS

EXISTING DRIVEWAY = 140 SF

EXISTING CLEARED AREA = 9,265 SF

EXISTING DRIVEWAY = 854 SF

EXISTING GRAVEL = 899 SF

EXISTING BUILDING SEASONAL DWELLING FFE = 1397 502 SF

EXISTING GRAVEL = 541 SF

EXISTING BUILDING = 74 SF

EXISTING DECK = 149 SF

EXISTING DECK = 275 SF

SITE LOCATION

1 SITE LOCATION MAP
NORTH — NOT TO SCALE

LEGEND

N/F	NOW OR FORMERLY OWNED BY
●	ELEVATION BENCHMARK
●	IRON PIPE - REBAR SOUND
	EXISTING SIGN
	EXISTING UTILITY POLE & GUY WIRE
	TEST PIT LOCATION
	PERC TEST LOCATION
	PROPOSED DRILLED WELL
	EXISTING TREES
	EXISTING PROPERTY LINE
	EXISTING SWALE CENTERLINE
	EXISTING TREE LINE
-W-	EXISTING WATER LINE
-SS-	EXISTING GRAVITY SEWER LINE
-OHW-	EXISTING OVERHEAD WIRES
500	EXISTING CONTOUR
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF GRAVEL
500	PROPOSED CONTOUR
-W-	PROPOSED WATER LINE
-SS-	PROPOSED GRAVITY SEWER LINE
-PS-	PROPOSED PRESSURE SEWER LINE
	WELL ISOLATION SHIELD
	SEPTIC ISOLATION SHIELD
	PROPOSED SEASONAL SWALE
620	PROPOSED CONTOUR
	PROPOSED TREE LINE
-SF-	PROPOSED SILT FENCE

LIST OF DRAWINGS

PLAN REFERENCES:

1) TOPOGRAPHIC SURVEY, PLAT OF 481 STONE SHORE ROAD, GLOVER VERMONT, SCALED: 1" = 30' BY LITTLE RIVER SURVEY COMPANY, LLC DATED AUGUST 2017

NOTES:

1) THIS DRAWING IS NOT A BOUNDARY SURVEY PLAT. BOUNDARY LINE INFORMATION SHOWN IS BASED ON PLAN REFERENCE #1. THE PROPERTY, ITS RIGHTS AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THIS DRAWING ARE FOR ILLUSTRATION PURPOSES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN V.S.A.TITLE 27 SECTION 1403 AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION. APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK.

3) THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" BEFORE COMMENCING ANY WORK AND SHALL PRESERVE ALL EXISTING UTILITIES NOT SPECIFIED TO BE REMOVED OR ABANDONED AS PART OF THE PROJECT.

PURPOSE OF PLAN:

TO REPLACE THE EXISTING SEASONAL DWELLING WITH A 3-BEDROOM SINGLE FAMILY DWELLING & BUILD A GARAGE WITH A 1-BEDROOM APARTMENT.

OWNER OF RECORD:

RON & CHERYL OVIEDO
481 STONE SHORE ROAD
GLOVER, VT 05839

C-1 SITE PLAN
SCALE: 1" = 10'
Graphic Scale
10 0 10 20 40 feet

SITE PLAN
RON & CHERYL OVIEDO
481 STONE SHORE ROAD
GLOVER, VERMONT

RUGGIANO Engineering
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ST. ALBANS, VERMONT 05478
PHONE - (802) 524-9300 FAX - (802) 524-9070

PROJECT NO. 18032
DRAWN BY ..... DEW
CHECKED BY ..... TRM
SCALE ..... 1" = 10'
DATE 02/05/19

SHEET NO.
C-1
1 OF 3 SHEETS

PROPOSED CONDITIONS

EXISTING DRIVE = 140 SF

PROPOSED BUILDING = 728 SF

PROPOSED DRIVE = 1602 SF

EXISTING GRAVEL = 376 SF

PROPOSED BUILDING = 1080 SF

EXISTING GRAVEL = 450 SF

EXISTING PAVEMENT = 685 SF

EXISTING BUILDING = 74 SF

EXISTING DECK = 149 SF

EXISTING DECK = 275 SF

EXISTING COVERED AREAS = 13,097 SF

PROPOSED RE-VEGETATED AREA = 1,973 SF

N/F CHRISTINE CANO RONALD B. HILL BOOK 54 PAGE 502

N/F RON & CHERYL OVIEDO BOOK 80 PAGE 67 KEY DEED BOOK 24 PAGES 82-85 4 LOT DEED

N/F ANTHONY J. & DENISE M. CARUSO BOOK 46 PAGE 14

SHADOW LAKE

SITE PLAN
SCALE: 1" = 10'
Graphic Scale
10 0 10 20 40 feet

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GLOVER, VT 05839

SITE LOCATION

1 NORTH — SITE LOCATION MAP
NOT TO SCALE

LEGEND

- N/F — NOW OR FORMERLY OWNED BY
- ELEVATION BENCHMARKS
- IRON PIPE REBAR FOUND
- EXISTING SIGN
- EXISTING UTILITY POLE & GUY WIRE
- TEST PIT LOCATION
- PERC TEST LOCATION
- PROPOSED DRILLED WELL
- EXISTING TREES
- EXISTING PROPERTY LINE
- EXISTING SWALE CENTERLINE
- EXISTING TREE LINE
- EXISTING WATER LINE
- EXISTING GRAVITY SEWER LINE
- EXISTING OVERHEAD WIRES
- EXISTING CONTOUR
- EXISTING EDGE OF GRAVEL
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF GRAVEL
- PROPOSED CONTOUR
- PROPOSED WATER LINE
- PROPOSED GRAVITY SEWER LINE
- PROPOSED PRESSURE SEWER LINE
- WELL ISOLATION SHIELD
- SEPTIC ISOLATION SHIELD
- PROPOSED SEASONAL SWALE
- PROPOSED CONTOUR
- PROPOSED TREE LINE
- PROPOSED SILT FENCE

LIST OF DRAWINGS

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