



SHORELAND PERMIT APPLICATION

Land Resources Management

Check the status of your application: www.des.nh.gov/onestop

RECEIVED

MAY 30 2017



TOWN OF NEW LONDON

RSA/Rule: RSA 483-B, Env-Wq 1400

Administrative Use Only	Administrative Use Only	Administrative Use Only	File Number
			Check No.
			Amount
			Initials

This is an application for a permit to excavate, fill or construct new structures within the protected shoreland as regulated under RSA 483-B. For a complete list of activities that do not require a shoreland permit, view the shoreland program [frequently asked questions \(FAQs\)](#)

Please type or print clearly. **Please note:** Application packages missing required elements will be returned to the applicant in their entirety, including the fee. Land Resources Management will include a letter identifying the missing elements and describing how to resubmit the application package to NHDES. Application packages that are accepted will proceed to technical review to ensure the applicant has fulfilled all requirements as specified by statute or rules. For more information visit the [New Land Resources Management Application Return Process](#) site located on the Shoreland Program Page.

1. PROPERTY OWNER			
LAST NAME, FIRST NAME, M.I.: CARLSON, TIM & CINDY			
ADDRESS: 6 IRONWOOD ROAD	TOWN/CITY: SANDY HOOK	STATE: CT	ZIP CODE: 06482
PHONE: 203-767-9068	EMAIL: TCC1056@GMAIL.COM		
2. PROJECT LOCATION			
ADDRESS: 293 LAMSON LANE	TOWN/CITY: NEW LONDON	STATE: NH	ZIP CODE: 03257
WATERBODY NAME: PLEASANT LAKE	TAX MAP: 62	LOT NUMBER: 8	
3. CONTRACTOR OR AGENT			
LAST NAME, FIRST NAME, M.I.: DAVIS, WILL			
ADDRESS: PO BOX 1825	TOWN/CITY: NEW LONDON	STATE: NH	ZIP CODE: 03257
PHONE: 603-877-0116	EMAIL: WDAVIS@HORIZONSENGINEERING.COM		
4. CRITERIA			
Please check at least one of the following below:			
<input type="checkbox"/> This shoreland permit application requires neither a proposal to make the property more nearly conforming nor a request for a waiver of a minimum standard.			
<input checked="" type="checkbox"/> This shoreland permit application includes a proposal to make the structures and/ or the property more nearly conforming in accordance with RSA 483-B:11			
<input type="checkbox"/> This shoreland permit application includes a request for a waiver of the following minimum standard(s) under RSA 483-B:9, V _____.			
5. PROJECT DESCRIPTION			
Total square feet of impact 18,875 Total square feet of new impervious area -1,088 SF			
Provide a complete description of the proposed project. Tim and Cindy Carlson desire to redevelop their property on Pleasant Lake by demolishing the existing house, garage, decks and driveway, and constructing a new home, garage, deck, and pervious driveway. Additionally the project will daylight a stream that is presently culvertized (see Wetland permit # 2015-03051), and install a new Individual Sewage Disposal system. The project has been designed to be more nearly conforming to Shoreland rules than the present condition. All work on the house and deck within 50' of the reference line is within the footprint of the existing house and deck. The project proposed to reduce the overall impervious coverage on the lot from 9,620 square feet to 5,832 square feet, a reduction of 1,088 square feet.			

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

6. PERMIT APPLICATIONS SUBMITTED

Please indicate if applications for any of the permits listed below have been submitted or will need to be submitted:

- Wetlands Permit per RSA 482-A
- Individual Sewage Disposal System per RSA 485-A:29
- Alteration of Terrain Permit Per RSA 485-A:17
- Subdivision Permit Per RSA 485-A:29

7. REFERENCE LINE ELEVATION (REQUIRED FOR LAKES, PONDS, AND ARTIFICIAL IMPOUNDMENTS)

Reference line elevations for most lakes, ponds and artificial impoundments greater than 10 acres in size are listed in the [Consolidated List of Waterbodies Subject to the Shoreland Water Quality Protection Act](#). Please see RSA 483-B:4, xvii for the definition of reference line.

The reference line for this waterbody is 803.80 Feet above sea level.

8. SHORELAND FRONTAGE Shoreland frontage is the actual frontage along the waterfront measured at the reference line.

The shoreland frontage on this lot is :635 Linear Feet

- N/A – No Direct frontage on this lot

9. APPLICATION FEE

A non-refundable permit application fee of \$100 plus \$0.10 per total square foot of is required at the time the application is submitted. Fees are capped at \$750 for projects impacting less than 10,000 sq ft, \$1,875 for projects impacting between 10,000 and less than 25,000 sq ft, and \$3,750 for projects impacting 25,000 sq ft and greater. Please note that your application will not be considered complete if it does not include the appropriate fee. **Please make checks payable to the Treasurer, State of NH.**

10. CALCULATING THE TOTAL IMPACT AREA AND PERMIT APPLICATION FEE

Total impact area is calculated by determining the sum of all areas disturbed by regrading, excavation, filling, construction, and structure removal. Impacts often include, but are not limited to: constructing new driveways, constructing new structures, areas disturbed when installing a new septic system or foundation, creating temporary access roads for the purpose of installing a well and regrading associated with landscaping activities.

Total Area Impacted within 250 Of the Reference Line. = 18,875 (A) Square Feet

Multiply the total Impact Area By 10¢ and add \$100.00. [(A) X .10 + \$100.00] = \$1,987.50 Permit Fee

11. REQUIRED CERTIFICATIONS

By initialing within the blank before each of the following statements, and signing below, you are certifying that: to the best of my knowledge, the information provided is true, complete and not misleading.

WTC I understand that any permit or waiver granted based on false, incomplete, or misleading information shall be subject to revocation.

WTC I am aware that obtaining a shoreland permit will not exempt the work I am proposing from other state, local or federal approvals.

WTC I have notified the municipality or municipalities in which the proposed impacts are located and provided them with a complete copy of the application and all supporting materials on 5/30/17 via ~~certified mail~~ **HAND DELIVERY**.

WTC This project is within ¼ mi of a designated river (river name:) and I have notified the [Local River Management Advisory Committee](#) by providing them with a copy of the complete application, including all supporting materials, via certified mail on day: ___ month: ___ year: ___ and I have included a copy of the certified mail receipt in the application submittal (RSA 482-A:3,i(d)(2))

This project is **not** within ¼ mi of a designated river

WTC I have notified all abutters of the proposed impacts via certified mail as required by RSA 483-B:5-b, iv-a. (see definition of "abutter" on page (6)).

12. SIGNATURES (Both must sign per Env-Wq 1406.08)

OWNER NAME	<i>Lucinda C. Carlson</i>	PRINT NAME LEGIBLY: Lucinda C. Carlson	DATE: 6-19-17
APPLICANT NAME	<i>William T. Davis</i>	PRINT NAME LEGIBLY: WILLIAM T. DAVIS, P.E.	DATE: 05/25/2017

Please mail this application and all other attachments to the Department of Environmental Services Wetlands Bureau, PO Box 95, Concord NH 03302-0095. Missing information will delay processing of your application and may result in denial of a Shoreland Permit.

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

SHORELAND APPLICATION WORKSHEET

This form must be submitted to the Department of Environmental Services Wetlands Bureau accompanied with a Shoreland Permit Application. [Instructions for completing this form](#) are available on the shoreland program web page.

For the purposes of this worksheet, “**Pre-Construction**” impervious surface areas¹ means all human made impervious surfaces² currently in existence on the property, whether to be removed or to remain after the project is completed. “**Post-Construction**” impervious area means all impervious surfaces that will exist on the property upon completion of the project, including both new and any remaining pre-existing impervious surfaces. All answers shall be given in square feet.

CALCULATING THE IMPERVIOUS AREA WITHIN 250 FEET OF THE REFERENCE LINE			
	STRUCTURE DESCRIPTION	PRE-CONSTRUCTION IMPERVIOUS AREA	POST-CONSTRUCTION IMPERVIOUS AREA
PRIMARY STRUCTURE Include all attached decks and porches.	<u>HOUSE+ATTACHED GARAGE</u>	<u>2,174</u> FT ²	<u>3,216</u> FT ²
ACCESSORY STRUCTURES All other impervious surfaces excluding lawn furniture, well heads, and fences. Common accessory structures include, but are not limited to: driveways, walkways, patios and sheds.	<u>DRIVEWAY</u>	<u>1,692</u> FT ²	<u>0</u> FT ² (PERVIOUS)
	<u>WALKS, STAIRS, DECKS, PATIOS</u>	<u>1,816</u> FT ²	<u>1,632</u> FT ²
	<u>LAMSON LANE</u>	<u>3,938</u> FT ²	<u>3,684</u> FT ²
	_____	_____ FT ²	_____ FT ²
	_____	_____ FT ²	_____ FT ²
TOTAL:		(A) 9,620 FT²	(B) 8,532 FT²
Area of the lot located within 250 ft of reference line:			(C) 29,679 FT²
Percentage of lot covered by pre-construction impervious area within 250 ft of the reference line: <i>[divide (a) by (c) x 100]</i>			(D) <u>32.41</u> %
Percentage of lot to be covered by post-construction impervious area within 250 ft of the reference line upon completion of the project: <i>[divide (b) by (c) x 100]</i>			(E) <u>28.75</u> %

¹ “**Impervious surface area**” as defined in Env-Wq 1402.15 means, for purposes of the impervious surface limitation specified in RSA 483-B:9, V(g), the sum total of the footprint of each impervious surface that is located within the protected shoreland.

² “**Impervious Surface**” as defined in RSA 483-B:4, VII-b means any modified surface that cannot effectively absorb or infiltrate water. Examples of impervious surfaces include, but are not limited to, roofs, and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas, and walkways.

IMPERVIOUS AREA THRESHOLDS

DETERMINING THE PLAN REQUIREMENTS

- The percentage of post-construction impervious area (**Calculation E**) is less than or equal to 20%. NO
 This project **does not** require a stormwater management plan and **does not** require a plan demonstrating that each waterfront buffer grid segment at least meets the minimum required tree and sapling point score.
- A net increase in impervious area is proposed and the percentage of post-construction impervious area (**Calculation E**) is greater than 20%, but less than 30%. NO
 This project **requires** a stormwater management but **does not** require a plan demonstrating that each waterfront buffer grid segment at least meets the minimum required tree and sapling point score.
 See details on the *Checklist of Required Items* on page 6
- A net increase in impervious area is proposed and the percentage of post-construction impervious area (**Calculation E**) is greater than 30%. NO
 This project **requires** a stormwater management plan be designed and certified by a professional engineer **and requires** plans demonstrating that each waterfront buffer grid segment at least meets the minimum required tree and sapling point score.
 See details on the *Checklist of Required Items* on page 6

UNALTERED STATE REQUIREMENT

DETERMINING THE AREA TO REMAIN IN AN UNALTERED STATE

Total area of the lot between 50 ft and 150 ft of the reference line within which the vegetation currently exists in an unaltered state ³ (see definition below). If this area is completely altered, place a zero on line (F) and (I) and proceed to (J).	(F) 2,065 SF
Total area of the lot between 50 ft and 150 ft from the reference line	(G) 13,763 SF
At least 25 percent of the vegetation within area (G) must remain in an unaltered state. [.25 x G]	(H) 3,441 SF
Place the smaller of line (F) and calculation (H) on this line. In order to remain compliant with RSA 483-B:9, V(b), this is the minimum area that must remain in an unaltered state between 50 ft and 150 ft from the reference line. This area must be represented on all plans.	(I) <u>2,065 SF</u>
Name of person who prepared this worksheet:	(J) <u>CHRIS HERNICK, EIT</u>
Name and date of the plan this worksheet is based upon:	(K) <u>EXISTING CONDITIONS, MAY 2017</u>
SIGNATURE: <u>Christopher J. Hornick E.I.T</u>	DATE: 05/09/2017

³ “Unaltered State” means native vegetation allowed to grow without cutting, limbing, trimming, pruning, mowing, or other similar activities except as needed for renewal or to maintain or improve plant health.



SHORELAND MORE NEARLY CONFORMING REQUEST FORM

Land Resources Management



RSA/ Rule: RSA 483-B/ Env-Wq 1400

In accordance with RSA 483-B:11 of the Shoreland Water Quality Protection Act (SWQPA), when altering or expanding the footprint of nonconforming primary structures, this form is used to demonstrate how the project proposal will allow the property to become *more nearly conforming* than the existing site conditions. Within the areas provided below, please demonstrate how this project will become more nearly conforming:

1. SIGNIFICANT CHANGES TO THE LOCATION OR SIZE OF EXISTING STRUCTURES
<p><i>This includes moving the primary structure back from the reference line to attain greater conformity with the 50ft primary building setback, removal of accessory structures within the waterfront buffer, reducing the size of structures (such as driveways and parking areas) and/or the removal of other pre-existing structures or utilizing pervious technologies that result in a significant reduction in total impervious area.</i></p> <p>The existing structure and deck encroach on the the 50ft primary building setback. While still within the setback, the proposed structure and deck are located further from the reference line. The proposed design removes 95sf of building and 302sf of deck surface from the primary building setback.</p>
2. SIGNIFICANT IMPROVEMENTS TO WILDLIFE HABITAT
<p><i>This includes planting native trees, saplings, shrubs and natural ground covers, preferably within the 50ft waterfront buffer, that creates multiple canopy layers and provides greater stability, stormwater absorption and significant benefits to surrounding wildlife.</i></p> <p>A specific planting plan has not yet been developed, however plantings within the re-routed stream channel have previously been proposed to mimic natural conditions. Per the conditions of the wetland permit issued for the project, a 20' wide natural vegetative buffer is to be maintained, centered on the re-routed stream channel. The intent is to allow naturally occurring vegetation to grow here.</p>
3. STORMWATER MANAGEMENT
<p><i>Stormwater management can be achieved by directing stormwater via gutters to dry wells and installing infiltration trenches, drainage swales, rain gardens and water bars. These systems have the ability to intercept and infiltrate stormwater.</i></p> <p>The project decreases the area of impervious surfaces on the parcel, thus decreasing storm water runoff. A portion of the runoff from the proposed house will be collected in stone drip edges, runoff from above the proposed deck will be collected in gutters and directed to infiltrating drywells in the yard, and a bio-retention area will infiltrate runoff from the garage and front of the house.</p>
4. WASTEWATER MANAGEMENT
<p><i>This includes replacement of, or modifications to, existing wastewater treatment systems (septic systems) to provide a greater level of resource protection.</i></p> <p>The existing wastewater treatment system will be removed and replaced with a newly designed and constructed 3-bedroom disposal system. The system complies with all setback requirements.</p>
5. OTHER
<p><i>This may include a proposal to improve traffic flow or volume, regrading areas to better manage stormwater, improvements to existing erosion problems, allowing disturbed/ altered areas to revert to undisturbed/ unaltered areas or other proposals that significantly improve wildlife habitat and resource protection.</i></p> <p>Areas of the parcel north of the proposed stream channel will be left undisturbed, and the stream channel itself will be allowed to revert to natural conditions, as noted above.</p>

This form must accompany the Shoreland Permit Application when a project requires an applicant to demonstrate the project proposal is more nearly conforming in accordance with RSA 483-B:11. Failure to provide this information will delay processing of your application and may result in denial of the Shoreland Permit.

shoreland@des.nh.gov or (603) 271-2147

NHDES Shoreland Program, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

Return to:
Timothy C. Carlson and Lucinda C. Carlson
293 Lamson Lane
New London, NH 03257

WARRANTY DEED

Ben C. Savino and Gladys L. Savino, husband and wife, of 293 Lamson Lane, New London, NH, for consideration paid grant to Timothy C. Carlson and Lucinda C. Carlson, husband and wife, of 6 Ironwood Road, Sandy Hook, CT as joint tenants with rights of survivorship, with warranty covenants;

A certain tract of land, with the buildings thereon, situate in New London, County of Merrimack, State of New Hampshire, being shown as Lot 62-19 (which includes Lot 62-3 and Parcel B), as shown on "Plan of Annexation, property of Hugh A. Chapin and Ben C. & Gladys L. Savino, located in New London, N.H.", Scale: 1" = 20', dated October, 1996 and recorded in the Merrimack County Registry of Deeds as Plan No. 13806, to which plan reference may be made for a more particular description.

This lot is conveyed free and clear of any rights across the same or to use the same other land for the said town road and utilities. There is also conveyed herewith a right-of-way over the aforesaid town road to Pleasant Street.

Subject to any and all matters as shown on Plan No. 13806.

Subject to a right-of-way for a town road fifty feet (50) in width which cuts across this lot to the aforesaid land now or formerly of Seth A. Lamson.

Parcel B is subject to the restriction that no building or structure shall ever be built upon the Parcel B area although the Parcel B area may be used for the location of leaching fields or water wells. This restriction is a negative easement binding upon the Grantees, their heirs, successors and assigns, and is reserved in favor of the Grantor herein, his heirs, successors and assigns.

Subject to the covenants, restrictions and reservations described in Book 1761, Page 1084 and Book 1761, Page 1088, if applicable.

Meaning and intending to describe and convey the same premises as conveyed to the within Grantor by Deeds recorded in Book 1761, Page 1084, Book 1761, Page 1088 and Book 2042, Page 1559 of the Merrimack County Registry of Deeds.

Buyer Initials:

TC
LC by (P) ATF

293 Lamson Lane, New London, NH 03257

Executed this August 31, 2007.

Ben C. Savino
 Ben C. Savino

Gladys L. Savino
 Gladys L. Savino

STATE OF NEW HAMPSHIRE

Merrimack SS

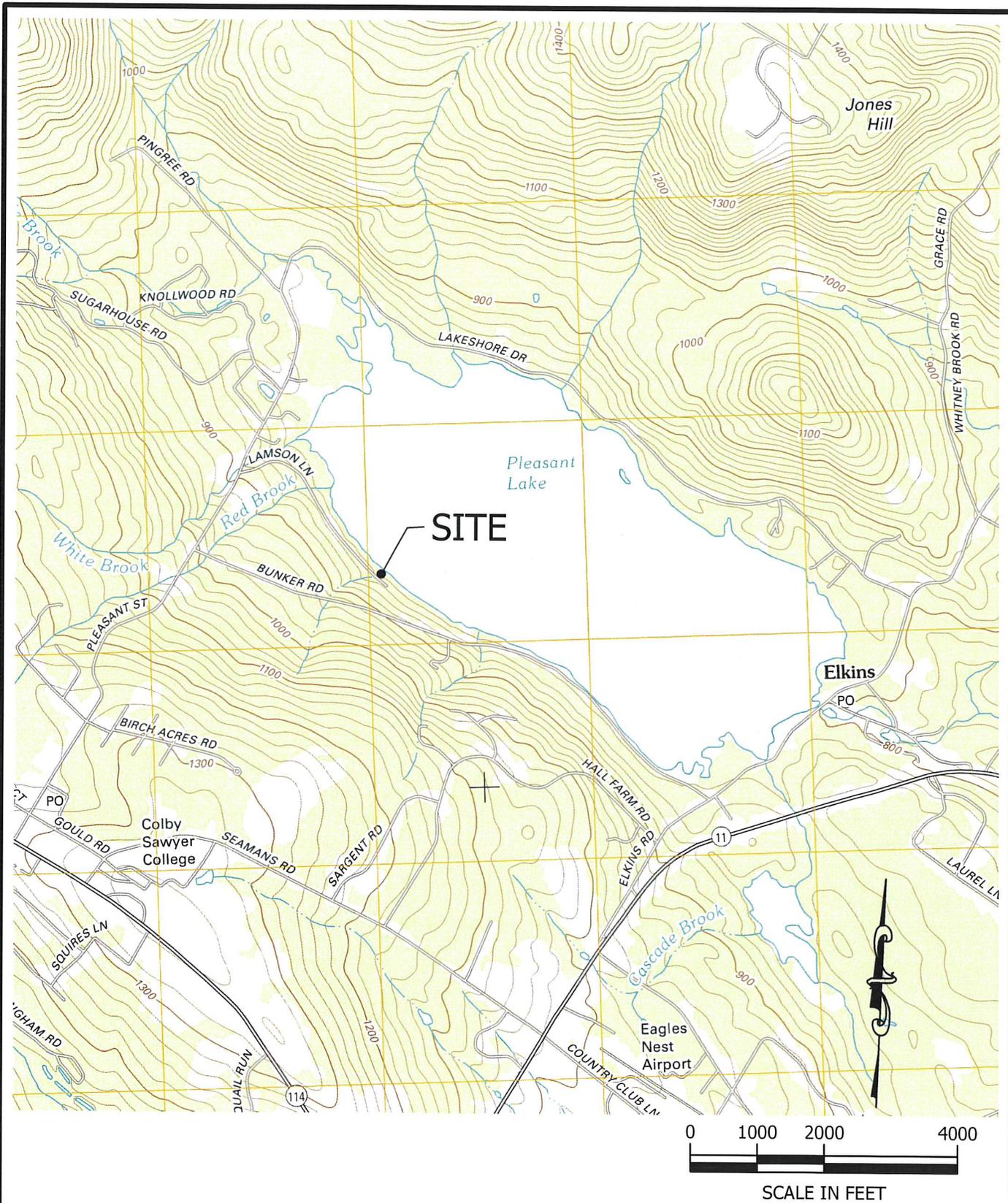
The foregoing was acknowledged before me this August 31, 2007 by Ben C. Savino and Gladys L. Savino.

Patricia A. Guerin
 Notary Public/Justice of the Peace
 My commission expires:



Buyer Initials:

LC by AIF



horizons
Engineering, Inc.

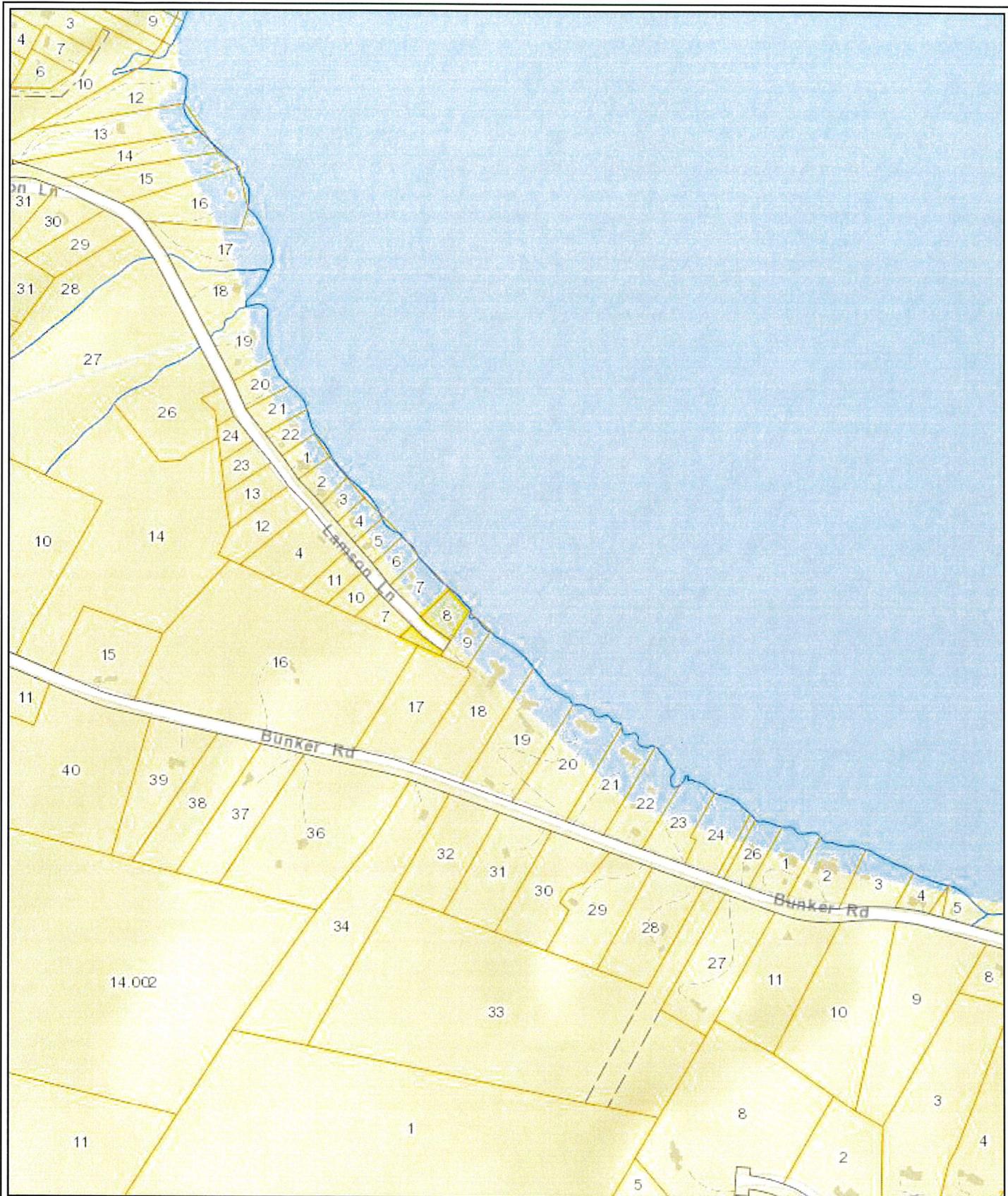
176 Newport Road
New London, NH 03257
Phone 603.877.0116 - Fax 603.526.4285

TIM & CINDY CARLSON
293 LAMSON LANE PERMITTING

NEW LONDON, NH

USGS MAP

PROJECT #:	14819
ENGIN'D BY:	-
DRAWN BY:	CJH
DATE:	APR 2017



Carlson Tax Map
Tri Town, NH
 1 Inch = 500 Feet
 October 23, 2014



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

www.cai-tech.com





Photo # 1



Photo # 2



horizons
Engineering^{Inc.}

176 Newport Road, P.O. Box 1825
New London, NH 03257
(603) 877-0116

Tim & Cindy Carlson
293 Lamson Lane, New London, NH
Tax Map 62, Lot 8
Shoreland Permit Photos
Project No. 14819

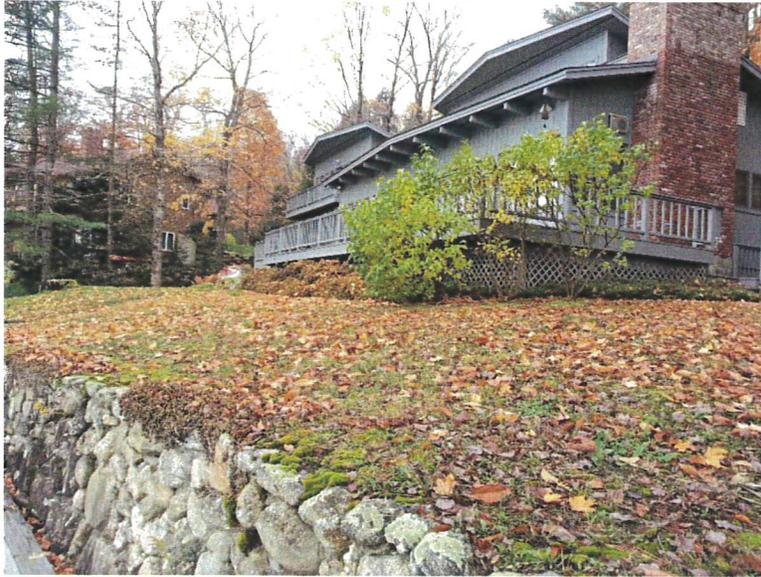


Photo # 3



Photo # 4



176 Newport Road, P.O. Box 1825
New London, NH 03257
(603) 877-0116

Tim & Cindy Carlson
293 Lamson Lane, New London, NH
Tax Map 62, Lot 8
Shoreland Permit Photos
Project No. 14819



New Hampshire Natural Heritage Bureau

To: Chris Hernick
34 School St
Littleton, NH 03561

Date: 5/3/2017

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 5/3/2017

NHB File ID: NHB17-1320

Applicant: Tim & Cindy Carlson

Location: Tax Map(s)/Lot(s): Map 62, Lots 18, 19
New London

Project Description: Demolish existing house and septic system. Construct new house and septic system. Re-align and daylight existing culvertized stream.

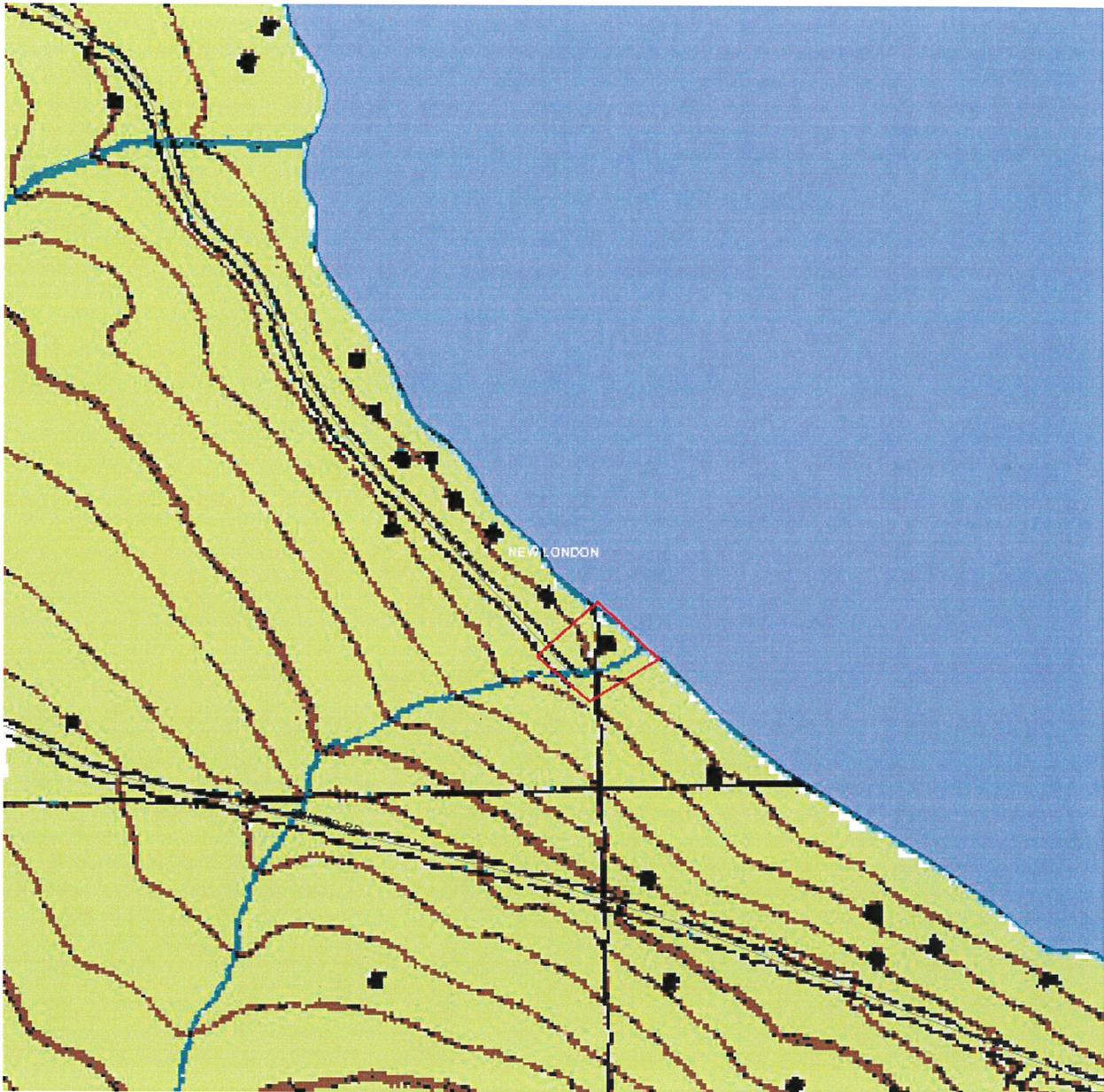
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 5/2/2018.



MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB17-1320





0 foot Abutters List Report

Tri Town, NH
May 25, 2017

Subject Property:

Parcel Number: NewL-062-008-000
CAMA Number: NewL-062-008-000
Property Address: 293 LAMSON LANE

Mailing Address: CARLSON TIMOTHY & LUCINDA
6 IRONWOOD ROAD
SANDY HOOK, CT 06482

Abutters:

Parcel Number: NewL-000-000-000
CAMA Number: NewL-000-000-000
Property Address:

Mailing Address:

Parcel Number: NewL-062-007-000
CAMA Number: NewL-062-007-000
Property Address: 267 LAMSON LANE

Mailing Address: CHAPIN HUGH & JUDITH TRUSTS
CHAPIN HUGH & JUDITH TRUSTEES
PO BOX 906
NEW LONDON, NH 03257

Parcel Number: NewL-062-009-000
CAMA Number: NewL-062-009-000
Property Address: 295 LAMSON LANE

Mailing Address: RYAN DOLORES E
295 LAMSON LANE
NEW LONDON, NH 03257

Parcel Number: NewL-062-016-000
CAMA Number: NewL-062-016-000
Property Address: 223 BUNKER ROAD

Mailing Address: CHAPIN HUGH & JUDITH CHAPIN
TRUSTS CHAPIN HUGH & JUDITH
TRUSTEES
PO BOX 906
NEW LONDON, NH 03257

Parcel Number: NewL-062-017-000
CAMA Number: NewL-062-017-000
Property Address: BUNKER ROAD

Mailing Address: WILSON KATHERINE M 2000 TRUST
WILSON KATHERINE M TRUSTEE
296 LAMSON LANE
NEW LONDON, NH 03257



www.cai-tech.com

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The State of New Hampshire
Department of Environmental Services



Clark B. Freise, Assistant Commissioner

NOTICE OF ACCEPTANCE OF PERMIT APPLICATION
LAND RESOURCES MANAGEMENT
SHORELAND PROGRAM

RECEIVED
MAY 30 2017
TOWN OF NEW LONDON

May 24, 2017

NEW LONDON MUNICIPAL CLERK
375 MAIN ST
NEW LONDON NH 03257

RE: Shoreland Program Permit Application (RSA 483:B)
NHDES File Number: 2017-01469
Subject Property: 910 Lakeshore Drive, New London, Tax Map/Lot#: 64 / 16

Dear Sir or Madam:

Pursuant to RSA 541-A:39, please be advised that the New Hampshire Department of Environmental Services (NHDES) accepted an application on **May 24, 2017** for the permit program and subject property referenced above.

The application requests a permit for impacts to jurisdictional shoreland at the subject property. A detailed technical review of the application package will be completed within the applicable timeframe: 30 days of receipt of an application for a permit or 30 days of receipt of an application for a permit that will require a waiver of the minimum standards of RSA 483-B:9.

Pursuant to RSA 483-B:5-b,IV-a and Env-Wq 1406.13(a), the applicant is required to have notified the municipality by certified mail and provided a completed and signed copy of the permit application. If you have not received the required information, please contact the applicant or their agent at the following address:

CLD CONSULTING ENGINEERS INC
28 GATES ST STE 100
WHITE RIVER JCT VT 05001

Please provide a copy of this notice to all interested departments, boards and commissions. Also note that under current state law and regulations, NHDES is not authorized to consider local zoning and regulatory issues pertaining to a project; these must be addressed at the local level.

If you have any questions, please contact the NHDES Shoreland Program at (603) 271-2147.

Thank you,

Land Resources Management

cc: 2012 Rebecca Gladstone Revocable Trust
CLD Consulting Engineers, Inc.

TIM & CINDY CARLSON

293 LAMSON LANE

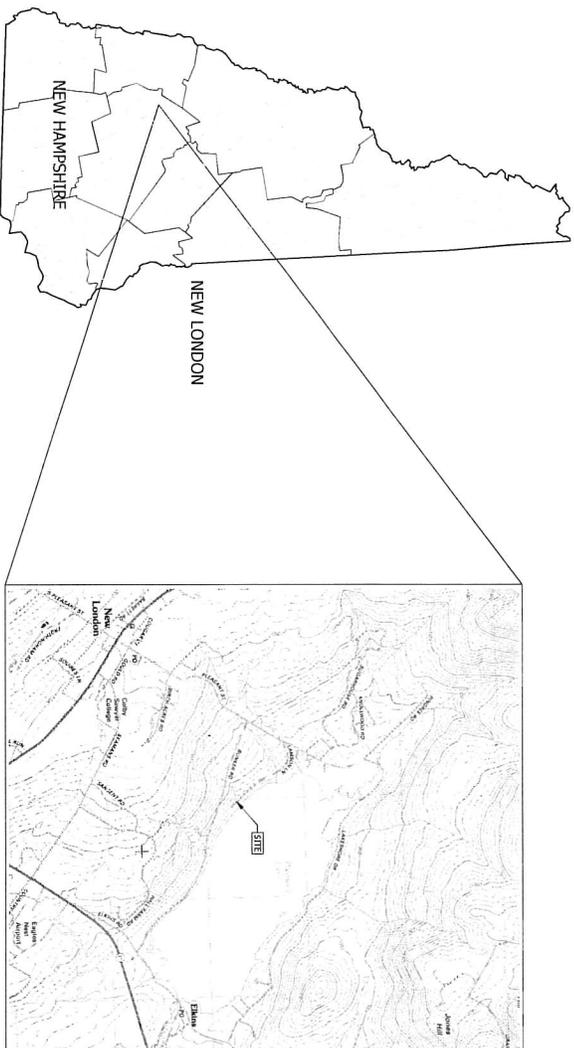
NEW LONDON, NEW HAMPSHIRE

MAY 2017

OWNER:
TIM & CINDY CARLSON
6 IRONWOOD ROAD
SANDY HOOK, CT 06482
(203) 767-9068

ENGINEER:
horizons
Engineering Inc.
176 NEWPORT ROAD, PO BOX 1825
NEW LONDON, NH 03257
(603) 877-0116

ARCHITECT:
BONIN ARCHITECTS & ASSOCIATES PLLC
210 MAIN STREET, PO BOX 2571
NEW LONDON, NH 03257
(603) 526-6200

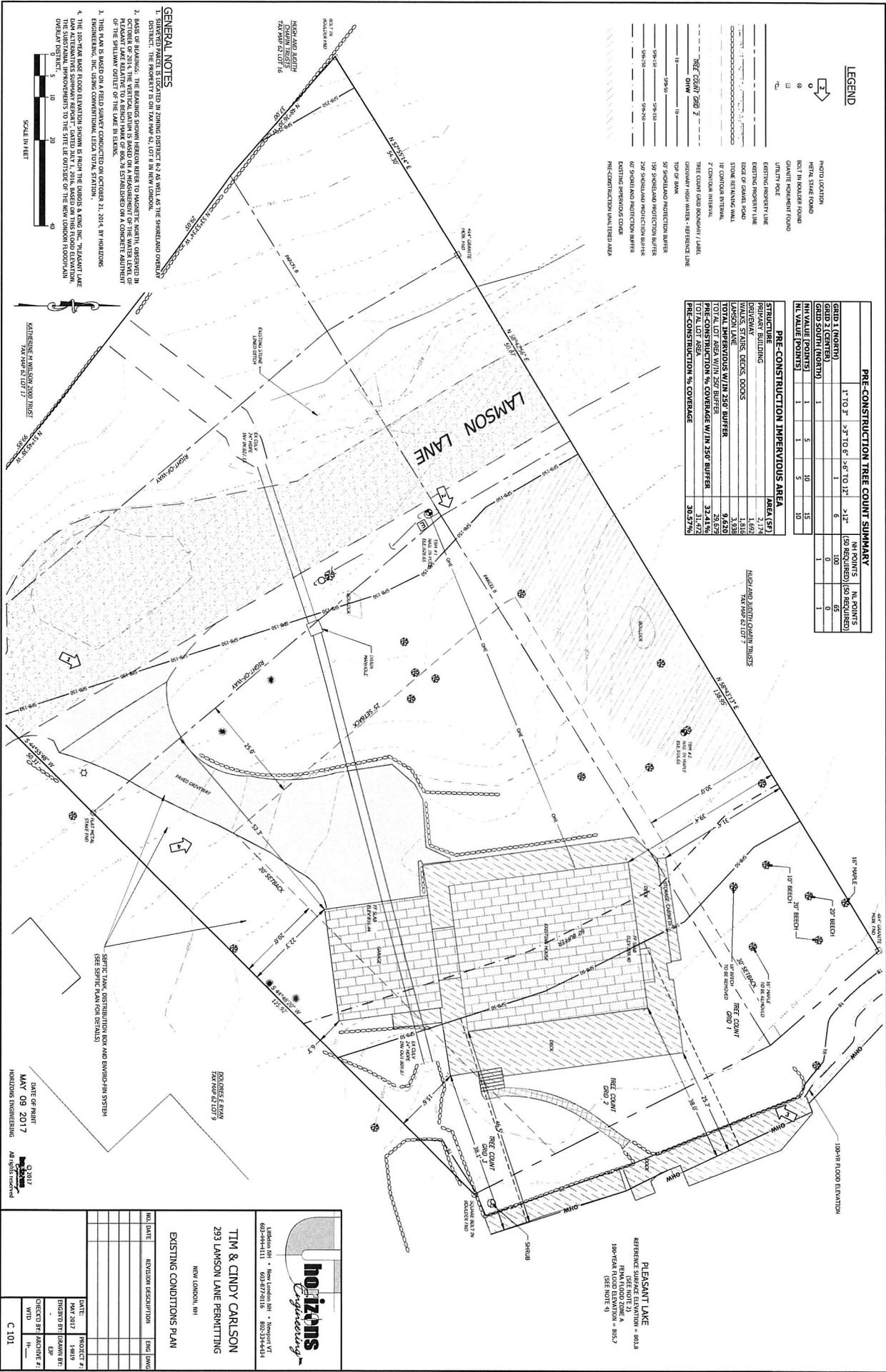


LOCATION PLAN
SCALE: 1" = 2000'

SHEET LIST

COVER
C 101
C 201
C 301
C 302
C 401

EXISTING CONDITIONS PLAN
SITE PLAN
DETAILS
DETAILS
ENVIROFEN SYSTEM (SEPTIC PLAN)



LEGEND

- PHOTO LOCATION
- NEPA STATE FLOOD
- NEPA IN BOUNDED FLOOD
- GRANITE MONUMENT FOUND
- UTILITY POLE
- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE
- EDGE OF GRAVEL ROAD
- STONE RETAINING WALL
- 7' CONDUIT INTERVAL
- 7' CONDUIT INTERVAL
- THE COUNTY ROAD 2
- CONDUIT HIGH WATER - REFERENCE LINE
- TOP OF BANK
- 50' PORTULACA PROTECTION BUFFER
- 50' SIBERIAN PROTECTION BUFFER
- 50' SIBERIAN PROTECTION BUFFER
- 50' PORTULACA PROTECTION BUFFER
- 50' PORTULACA PROTECTION BUFFER
- EXISTING INTERSECTION CORNER
- PRE-CONSTRUCTION DUAL TRUCK ROAD

PRE-CONSTRUCTION TREE COUNT SUMMARY

GRID 1 (NORTH)	1" TO 3"	3" TO 6"	6" TO 12"	>12"	NL POINTS (SO REQUIRED)	NL POINTS (SO REQUIRED)
GRID 2 (SOUTH)	1	1	1	6	100	65
NL VALUE (POINTS)	1	5	10	15	1	1
NL VALUE (POINTS)	1	5	10	10		

PRE-CONSTRUCTION IMPERVIOUS AREA

STRUCTURE TYPE	AREA (SQ FT)
DRIVEWAY	1,492
WALKS, STAIRS, DECKS, DOCKS	1,148
CONCRETE DRIVEWAY	8,258
CONCRETE DRIVEWAY WITH 25% BUFFER	2,829
TOTAL LOT AREA WITH 25% BUFFER	20,979
PRE-CONSTRUCTION % COVERAGE W/IN 25% BUFFER	32.41%
TOTAL LOT AREA	31,747
PRE-CONSTRUCTION % COVERAGE	30.57%

GENERAL NOTES

1. THIS PLAN IS BASED ON A FIELD SURVEY CONDUCTED ON OCTOBER 21, 2014, BY HORIZONS ENGINEERING, INC. USING CONVENTIONAL LEVEL TOTAL STATION.
2. THE 100-YEAR BASE FLOOD ELEVATION SHOWN IS FROM THE CHANDLER & KING INC. "PEASANT LAKE DAM ALTERNATIVE SUMMARY REPORT" DATED JULY 1, 2016, BASED ON THE FLOOD ELEVATION OVERLAY DISTRICT 5 TO THE SOUTHWEST OF THE DAM ON THE DAM'S DOWNSTREAM OVERTOP DISTRICT 5.
3. THIS PLAN IS BASED ON A FIELD SURVEY CONDUCTED ON OCTOBER 21, 2014, BY HORIZONS ENGINEERING, INC. USING CONVENTIONAL LEVEL TOTAL STATION.
4. THE 100-YEAR BASE FLOOD ELEVATION SHOWN IS FROM THE CHANDLER & KING INC. "PEASANT LAKE DAM ALTERNATIVE SUMMARY REPORT" DATED JULY 1, 2016, BASED ON THE FLOOD ELEVATION OVERLAY DISTRICT 5 TO THE SOUTHWEST OF THE DAM ON THE DAM'S DOWNSTREAM OVERTOP DISTRICT 5.

EXISTING CONDITIONS PLAN

DATE OF PLAN: MAY 09 2017

HORIZONS ENGINEERING

DATE OF PRINT: MAY 09 2017

AL: [Signature]

EXISTING CONDITIONS PLAN

DATE: MAY 09 2017

PROJECT #: 14819

ENGINEER: [Signature]

CHECKED BY: [Signature]

WID: [Signature]

C 101

TM & CINDY CARLSON

293 LAMSON LANE HERMITTING

NEW LONDON, IHI

horizons Engineering

Ludlow IHI - New London, IHI - Hermitting, VT

603-444-1111 603-277-0118 802-334-4434

PEASANT LAKE

REFERENCE SURFACE ELEVATION = 803.8

(SEE NOTE 2)

100-YEAR FLOOD ELEVATION = 805.7

(SEE NOTE 4)

GENERAL NOTES - ROCKERY WALL

1. THE WALL DETAILS SHOWN ON THESE PLANS ARE CONCEPTUAL. THE WALLS ON THIS SPECIFIC SOIL AND SUBGRADE CONDITIONS AT THE LOCATION OF THE WALLS SHOULD BE CONSIDERED AS:
2. WALL CONSTRUCTION AND INSPECTION SHOULD BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
3. FINISH OF STONEWORK SHOULD BE AT LEAST 2.5 FEET BELOW FINISH GRADE. THE STONEWORK SHOULD BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL. WALLS SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL. WALLS SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL.
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13. THE STONEWORK SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL. WALLS SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL.
14. THE STONEWORK SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL. WALLS SHALL BE FINISHED AND LAYED OUT FROM THE FACE OF THE WALL.

SEE THE CRUSHED ROCK FILLER BY WEIGHT

TO BE USED IN THE

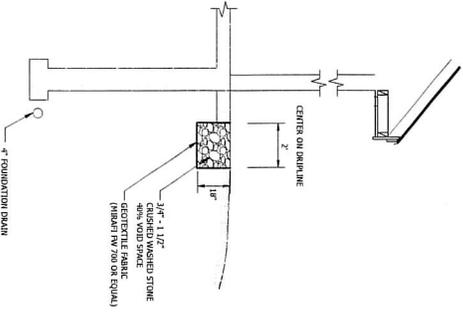
CONCRETE

AND

GRAVEL

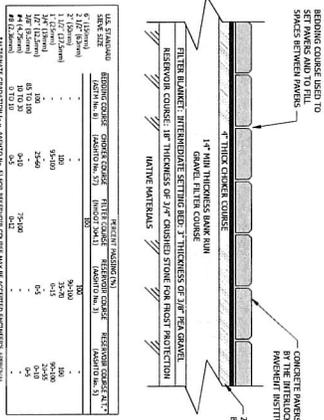
STONE DRIP EDGE DETAIL

NOT TO SCALE



TYPICAL PAVING SECTION - PERVIOUS PAVERS

NOT TO SCALE

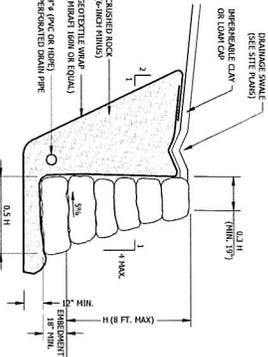


- NOTE:**
1. THE CONTRACTOR AND OWNER ARE ADVISED TO REFER TO THE TYPICAL DESIGN CONSTRUCTION AND MAINTENANCE OF THE PAVEMENT SECTION.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	4\"/>				

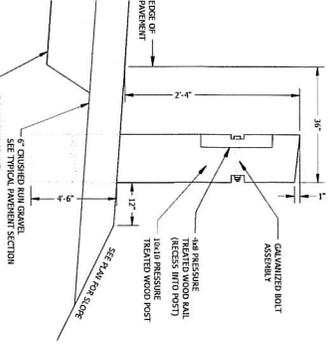
ROCKERY WALL DETAIL

NOT TO SCALE



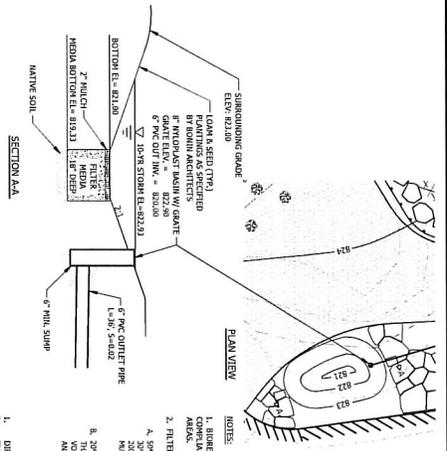
BEAM GUIDE RAIL / WOOD POSTS

NOT TO SCALE



BIORETENTION AREA #1

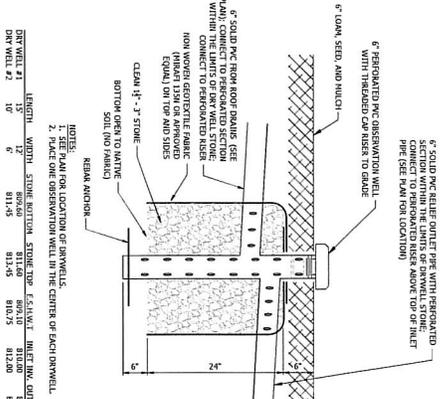
NOT TO SCALE



1. GRANITE/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE.
2. GRANITE SHALL BE SET IN A CONCRETE BEDDING COURSE ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASIN OVER 4\"/>

DRY WELL DETAIL

NOT TO SCALE



ITEM NO.	DESCRIPTION	LENGTH	WIDTH	DEPTH	PRICE	TOTAL
1	6\"/>					

DATE OF PRINT
MAY 09 2017

HORIZONS ENGINEERING

DATE OF PRINT
MAY 09 2017

HORIZONS ENGINEERING

hORIZONS
Engineering

1450 Main St. • Highland, NH • 03051
603-884-1111 • 603-887-2118 • 802-334-4314

TIM & CINDY CARLSON
293 LANSON LANE PERMITTING

NEW LONDON, NH

DETAILS

NO.	DATE	REVISION DESCRIPTION	ENG	LANG

CHECKED BY: JACOBINE #1

DATE: MAY 2017

PROJECT #: 14419

ENGINEER: CARLSON

DATE: MAY 2017

PROJECT #: 14419

CHECKED BY: JACOBINE #1

DATE: MAY 2017

PROJECT #: 14419

ENGINEER: CARLSON

DATE: MAY 2017

PROJECT #: 14419

C 302



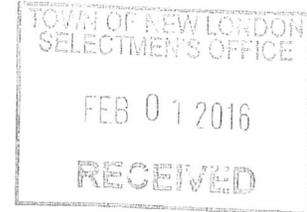
The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

WETLANDS AND NON-SITE SPECIFIC PERMIT 2015-03051

Permittee: Cindy and Tim Carlson
6 Ironwood Rd.
Sandy Hook, CT 06482
Project Location: 293 Lamson Lane, New London
New London Tax Map/Lot No. 62 / 08
Waterbody: Unnamed tributary to Pleasant Lake



APPROVAL DATE: 01/26/2016 EXPIRATION DATE: 01/26/2021

Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued. This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Dredge and fill approximately 100' linear feet of perennial stream (Tier 1, unnamed stream) in order to remove 100' linear feet of existing 24" HDPE culvert pipe, replace 70' lin. ft. of 24" HDPE culvert pipe with 48" HDPE culvert pipe, and reconstruct 100' linear feet of stream channel which will convey the stream to Pleasant Lake.

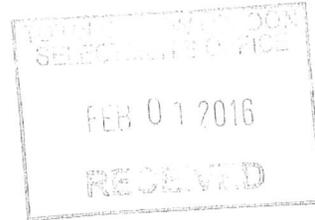
THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

1. All work shall be in accordance with plans by Horizons Engineering entitled Tim and Cindy Carlson, 293 Lamson Lane Permitting dated November 2015 as received by the Department on November 12, 2015, and with revised Stream Restoration Plan (Sheet 2 of 4) dated January 18, 2016 as received by the Department on January 18, 2016.
2. All activities associated with this project shall be conducted in compliance with applicable requirements of RSA 483-B and N.H. Code Admin. Rules Env-Wq 1400 during and after construction. The owner is responsible for obtaining any Shoreland Permit that may be required per RSA 483-B, for construction, excavation or fill that will occur within the Protected Shoreland.
3. There are no authorized impacts to jurisdictional wetlands within 20' ft. of the abutting property (Map 62, Lot 9).
4. All work shall be done in the dry conditions.
5. Work shall be conducted in a manner so as to minimize turbidity and sedimentation to wetlands and surface waters.
6. Appropriate erosion/siltation controls shall be installed prior to construction, shall be maintained during construction, and shall remain until the area is stabilized. Silt fence(s) must be removed once the area is stabilized.
7. Appropriate turbidity controls shall be installed prior to construction, shall be maintained during construction such that no turbidity escapes the immediate dredge area, and shall remain until suspended particles have settled and the water at the work site has returned to normal clarity.
8. The contractor responsible for completion of the work shall utilize techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
9. The existing culvert pipe will remain utilized until the proposed stream channel has been constructed and stabilized. Flow will only be redirected once the channel has been fully stabilized.
10. Dredged material shall be placed outside of the jurisdiction of the DES Wetlands Bureau.
11. The final surface of the stream channel bed shall be restored according to the plan Stone Specifications for Stream Restoration. Stone shall match the stone found in the stream channel upstream from the Lamson lane culvert to the greatest extent possible.
12. Only native plant species appropriate to the area shall be planted per the revised Stream Restoration Plan, Sheet 2 of 4 dated January 18, 2016.
13. The approved planting areas shall have at least 75% successful establishment of vegetation (approved plan species) after two (2) growing seasons, or shall be replanted and re-established in a manner satisfactory to the DES Wetlands Bureau.

DES Web site: www.des.nh.gov

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Telephone: (603) 271-3503 • Fax: (603) 271-6588 • TDD Access: Relay NH 1-800-735-2964



Wetlands Bureau File # 2015-03051

Date: January 26, 2016

Page 2 of 2

14. A post-construction report including photographs documenting the status of the completed construction shall be submitted to the DES Wetlands Bureau within thirty (30) days of the completion of construction.
15. Machinery shall be staged and refueled in upland areas.
16. Construction equipment shall be inspected daily for leaking fuel, oil and hydraulic fluid prior to entering surface waters or wetlands
17. Dredged material shall be placed outside of the jurisdiction of the DES Wetlands Bureau.
18. The contractor responsible for completion of the work shall utilize techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
19. Within three days of final grading in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.
20. Where construction activities have been temporarily suspended within the growing season, all exposed soil areas shall be stabilized within 14 days by seeding and mulching.
21. Where construction activities have been temporarily suspended outside the growing season, all exposed areas shall be stabilized within 14 days by mulching and tack. Slopes steeper than 3:1 shall be stabilized by matting and pinning.
22. Any future work on this property that is within the jurisdiction of the DES Wetlands Bureau as specified in RSA 482-A will require a new application and approval by the Bureau.

GENERAL CONDITIONS THAT APPLY TO ALL DES WETLANDS PERMITS:

1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
3. The Wetlands Bureau shall be notified upon completion of work;
4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.);
5. Transfer of this permit to a new owner shall require notification to and approval by DES;
6. This project has been screened for potential impacts to **known** occurrences of rare species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have received only cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.
7. Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.

APPROVED: _____

Karl Benedict
DES Wetlands Bureau

=====

BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

OWNER'S SIGNATURE (required)

CONTRACTOR'S SIGNATURE (required)



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

January 26, 2016

Cindy and Tim Carlson
6 Ironwood Rd.
Sandy Hook, CT 06482

RE: Cindy and Tim Carlson - File # 2015-03051 - New London

Tax Map/Lot # 62/08

Dear Mr. and Mrs. Carlson:

Attached please find Wetlands Permit # 2015-03051 to Dredge and fill approximately 100' linear feet of perennial stream (Tier 1, unnamed stream) in order to remove 100' linear feet of existing 24" HDPE culvert pipe, replace 70' lin. ft. of 24" HDPE culvert pipe with 48" HDPE culvert pipe, and reconstruct 100' linear feet of stream channel which will convey the stream to Pleasant Lake.

The decision to approve this application was based on the following findings:

1. This is a Minimum impact project per Administrative Rule Env-Wt 303.04(o); Projects deemed minimum impact by the department based on the degree of environmental impact.
2. A permit application had been previously submitted (2015-00693) for a stream restoration project at the subject property (Tax Map 62, Lot 8), although abutter permission for wetland impacts within 20' of the abutting property were not approved by the abutting property owner.
3. The applicant has redesigned the proposed stream restoration project to construct along the north portion of the property and avoid potential wetland impacts within 20' of Tax Map 62, Lot 9.
4. The applicant's agent has confirmed the Owner of Tax Map 62, Lot 9 (abutter) has been notified of the proposed project by certified mail.
5. No additional comments were received from the abutting property owner (Tax Map 62, Lot 9) relative to the redesigned project.
6. The project is designed to remove 100' lin. ft. of stream from the existing culvert pipe drainage system. The constructed stream channel will be stabilized and vegetated with outlet to Pleasant Lake. A vegetated buffer (20' o.c.) shall be maintained along the stream channel.
7. The need for the proposed impacts has been demonstrated by the applicant per Env-Wt 302.01. The existing culvert conveys wetland stream water under a garage to Pleasant Lake. The owner plans to demolish the existing garage. The proposed project will remove the culvert and restore a section of wetland stream channel.
8. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per Env-Wt 302.03.
9. The applicant has demonstrated by plan and example that each factor listed in Env-Wt 302.04(a) Requirements for Application Evaluation, has been considered in the design of the project.
10. The applicant has provided written permission for wetland impacts within 20' ft. of the abutting property line from the owners of Tax Map 62, Lot 7.
11. There are no impacts to jurisdictional wetland areas authorized within 20' of the abutting property Tax Map 62, Lot 9.
12. Mitigation was not required as the project impacts were determined to be self-mitigating.
13. The Town of New London has confirmed permission to work within the Town right-of-way in order to remove the existing manhole, remove the existing culvert pipe, and construct a new headwall at a minimum of 4' from the edge of the roadway with an elevation close to the existing grade but no higher than the road.
14. The existing stream conveyance flows through a 24-inch culvert under Lamson Lane into a drain manhole. Then it continues in a 24-inch culvert under the existing garage, and is discharged into Pleasant Lake.



DES Web site: www.des.nh.gov

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Telephone: (603) 271-3501 • Fax: (603) 271-6683 • TDD Access: Relay NH 1-800-735-2964

15. The project engineer indicates the capacity of the existing 24" culverts in the system is less than that of the upstream reference reach. Flows that exceed the culverts capacity follow an existing stone lined channel to another culvert located north of the site on Lamson Lane. There was no evidence of previous flooding conditions.
16. The proposed stream conveyance will include replacement of the existing concrete manhole and 45' ft. of existing 24" HDPE culvert pipe with 48" HDPE culvert pipe which outlets to a constructed stream channel discharging to Pleasant Lake.
17. The project engineer has provided hydraulic analysis that indicates the proposed 48" culvert will pass the 50-year storm event and the drain manhole will not overtop in the 100-year storm event.
18. The project engineer stated the proposed stream channel has a cross-sectional area of 12 square feet and has been designed to pass the 100-year storm event without overtopping.
19. The approved plan set is stamped by a PE.
20. No comments of concerns were submitted from the Conservation Commission.
21. The New Hampshire Natural Heritage Bureau (NHB) review indicated there are currently no recorded occurrences for sensitive species near the project area per letter dated December 9, 2014.

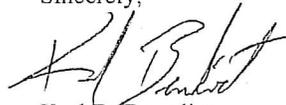
Any person aggrieved by this decision may appeal to the N.H. Wetlands Council ("Council") by filing an appeal that meets the requirements specified in RSA 482-A:10, RSA 21-O:14, and the rules adopted by the Council, Env-WtC 100-200. The appeal must be filed **directly with the Council within 30 days** of the date of this decision and must set forth fully **every ground** upon which it is claimed that the decision complained of is unlawful or unreasonable. Only those grounds set forth in the notice of appeal can be considered by the Council.

Information about the Council, including a link to the Council's rules, is available at <http://nhec.nh.gov/> (or more directly at <http://nhec.nh.gov/wetlands/index.htm>.) Copies of the rules also are available from the DES Public Information Center at (603) 271-2975.

Your permit must be signed, and a copy must be posted in a prominent location on site during construction.

If you have any questions, please contact our office at (603) 271-2147.

Sincerely,



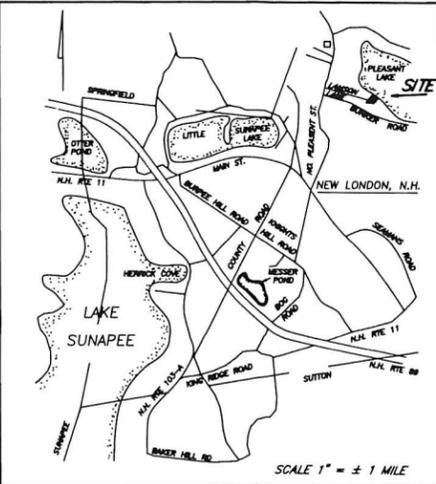
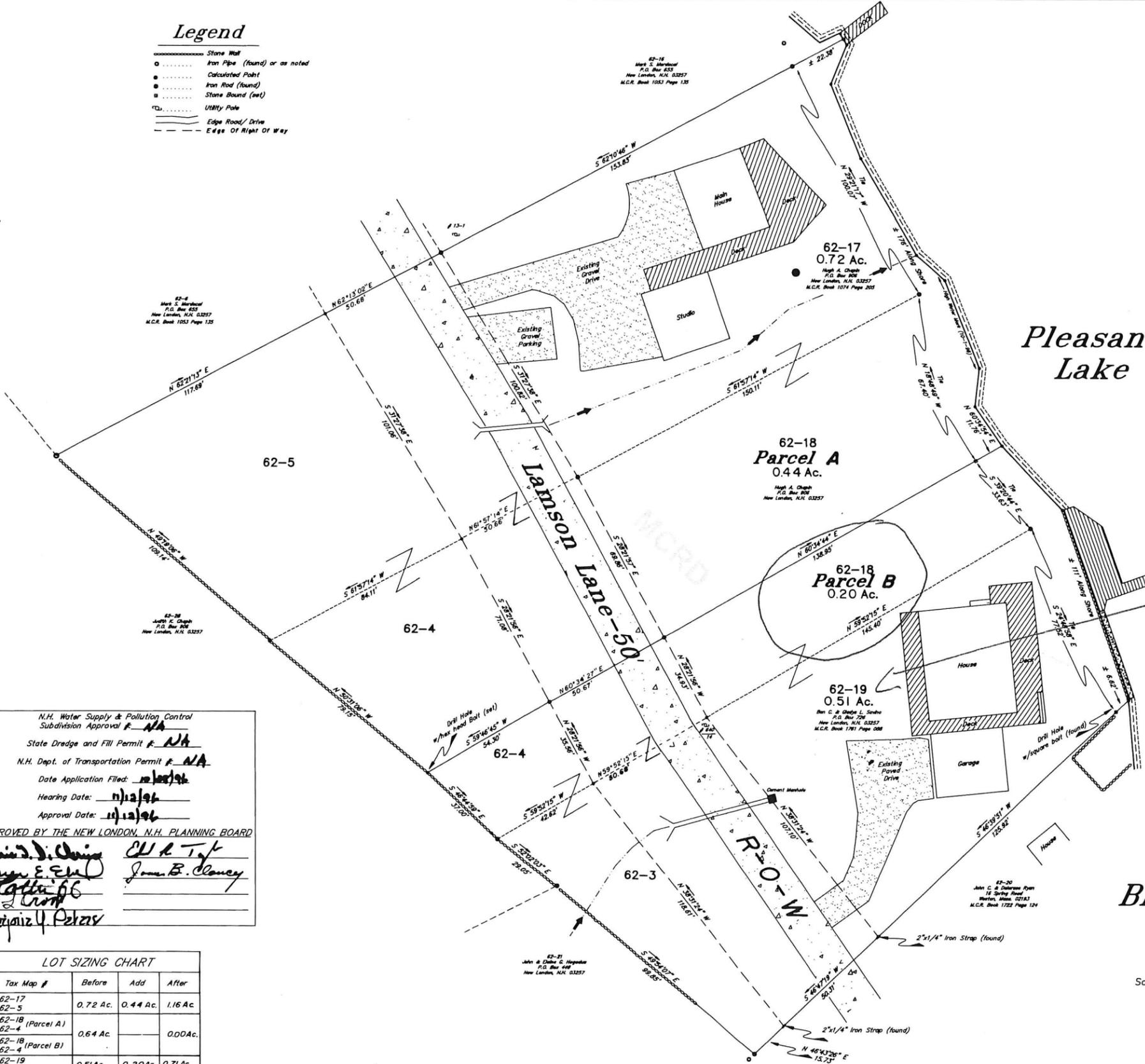
Karl D. Benedict
DES Wetlands Bureau

cc: William T. Davis, Horizons Engineering, Inc.
New London Conservation Commission
New London Municipal Clerk

#13806 Recorded Nov. 15, 12:20 pm 1996
 Attest: Judith M. Hamilton, Deputy Registrar

Legend

- Stone Wall
- Iron Pipe (found) or as noted
- Calculated Point
- Iron Rod (found)
- Stone Bound (sw)
- Utility Pole
- Edge Road/Drive
- Edge Of Right Of Way



LOCATION MAP

NOTES

1. This plan is the result of a total station survey, October, 1996, having a control traverse relative error of closure greater than 1:10,000 (NH Standards- Category 1, Condition 2).
2. This property is located in Zoning District R-2 as well as the Shoreland Overlay District.
3. The intent of this plan is to annex parcel A to 62-17.5 and parcel B to 62-19, 3.
4. The property conveyed as a result of this annexation shall not be deemed or considered a separate lot of record, but shall be regarded as merged into and made an integral part of the contiguous lot of land previously owned by the grantees so that the same shall hereafter be one confirmed single lot of record.

REFERENCE PLANS

1. M.C.R. Plan #1523-Plan of Estate of Mary L. Lamsom..., by H.E. Johnson, Surveyor, dated Dec.12,1956, last revision Nov.16,1957.
2. M.C.R. Plan #1524-Plan of Lamsom Lane Lots, Pleasant Lake..., by H.E. Johnson, Surveyor, dated Sep.25,1956, last revision Nov.16,1957.
3. Unrecorded Plan - "Lamsom Lane," Prepared For Town of New London..., by Environmental Strategies Inc., dated Jan.21,1992.

Re:
 062-019-000
 Carlson

N.H. Water Supply & Pollution Control
 Subdivision Approval # NA
 State Dredge and Fill Permit # NA
 N.H. Dept. of Transportation Permit # NA
 Date Application Filed: 10/12/96
 Hearing Date: 11/12/96
 Approval Date: 11/12/96
 APPROVED BY THE NEW LONDON, N.H. PLANNING BOARD
 [Signatures: Daniel J. Quinn, John E. Quinn, Robert B. Clancy, Valerius J. Petkov]

LOT SIZING CHART				
Owner	Tax Map #	Before	Add	After
Chapin	62-17	0.72 Ac.	0.44 Ac.	1.16 Ac.
	62-5			
Chapin	62-18 (Parcel A)	0.64 Ac.		0.00 Ac.
	62-4 (Parcel B)			
Savino	62-19	0.51 Ac.	0.20 Ac.	0.71 Ac.
	62-3			

PLAN OF ANNEXATION
 PROPERTY OF
HUGH A. CHAPIN
 AND
BEN C. & GLADYS L. SAVINO
 LOCATED IN
NEW LONDON, N.H.

Scale in Feet =

1" = 20'
 OCTOBER, 1996

PREPARED BY KEAR-WOOD INC., FORESTERS AND SURVEYORS, WILMOT, N.H. 03287.
 08-9-300,060



