





AMERICAN
CONSULTING
ENGINEERS &
SURVEYORS, INC.

CIVIL & ENVIRONMENTAL ENGINEERS

LAND SURVEYORS

3480 VT Route 64 Williamstown, VT 05679

> P/F (802) 433-5569 aces\_vt@yahoo.com

September 18, 2025

Re: Site Visit & Soil Tests

Dear Julie Goraj,

As you are aware, I performed soil tests at your family property on Meadowbrook Lane in Chelsea, Vermont, on August 29, 2025.

The soil test results indicated that a suitable location for an approvable mound type septic system meeting current state Water/wastewater standards is available at this site.

There are other potential permitting issues that are not included in these results. These other permit requirements may factor in the overall permitting of the site for building.

I have enclosed an invoice for my time. If you have any questions, please do not hesitate to contact me.

Sincerely,

American Consulting Engineers & Surveyors, Inc.

Robert Townsend, P.E., L.S.



September 27, 2018

Jason Goodrich 4 Meadow Brook Lane Chelsea, Vermont 05038

Subject:

Structural Inspection and Load Capacity of Bridge Located at Meadow Brook Lane, Chelsea, Vermont

Dear Jason:

As requested, on August 23, 2018, Ken Bushey visited the above referenced site to complete an inspection of the existing bridge in an effort to determine its load capacity. After the site visit, a structural analysis of the existing bridge was completed.

The bridge deck is made up of a single layer of rough sawn 3x10 hemlock decking that is oriented in the flat direction and is in fair condition. The deck surface is approximately 12'-0" wide by 47'-5" long. At the approximate wheel path locations, 3-rough sawn 2x running planks have been installed, which measure 9'-0" from outside of running planks to outside of running planks. There are rough sawn 8"x8" curbs installed on each edge of the bridge. The driving surface from inside of curb to inside of curb is approximately 10'-9".

The decking is supported by four steel beams, and does not appear to be attached to the beams. Based upon field measurements, the beams appear to be \$20x86 beams that are in fair condition. Steel channel bracing is installed at quarter points along the span of the beams. The inner beams are spaced approximately 4'-0" from center to center and the outer beams are centered 2'-0" beyond the inner beams. The deck overhangs approximately 1'-8" at the upstream end of the bridge and 1'-10" at the downstream end. Based upon the beam size and condition it appears that the beams are likely A36 steel.

A visual inspection of the concrete abutments indicates that they are in fair condition. It appears that the house side abutment has slightly rotated, but it is my professional opinion that the abutment condition does not currently effect the capacity of the bridge, but should be monitored every year for any further movement.

Our analysis and review are based upon our visual inspection, field measurements, accepted structural engineering standards, and upon the AASHTO Standard Specifications for Highway Bridges. AASHTO specifies two load ratings for bridges. The first load rating is called an inventory rating and is based upon daily use of the bridge at the specified loading. The second load rating is called an operating rating.

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Permitting

Site Design

Subdivisions

Timber Design

**Expert Testimony** 

Site Development

Act 250 Permitting

Forensic Engineering

**Environmental Permitting** 

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Stream Alterations

Sewer Design

Water Supply

Storm Water

Hydrology

Grading

317 River Street P. O. Box 1576 Montpelier, VT 05601-1576 phone: 802.223.4727

phone: 802.223.472/ fax: 802.223.4740 www.dirtsteel.com



Page 2 of 2 Jason Goodrich September 27, 2018

This load rating should be used as an upper maximum and is based upon a limited or one time use. It is possible that some permanent damage to the bridge will occur if a vehicle of this loading crosses the bridge but the bridge will not fail under this load. As part of our analysis, AASHTO specifies the wheel load shall be applied at 2'-0" from the edge of curb/edge of decking. In this case, the deck overhang of the steel beam was less than 2'-0" and analysis cantilevered portion of the wood deck was excluded.

Based upon our visual inspection and subsequent calculations, the bridge decking has an inventory rating of H-9 (9 tons) and an operating rating of H-11 (11 tons). Based upon an estimated A36 steel strength, the steel beams have an inventory rating of H-16 (16 tons) and an operating rating of H-27 (27 tons).

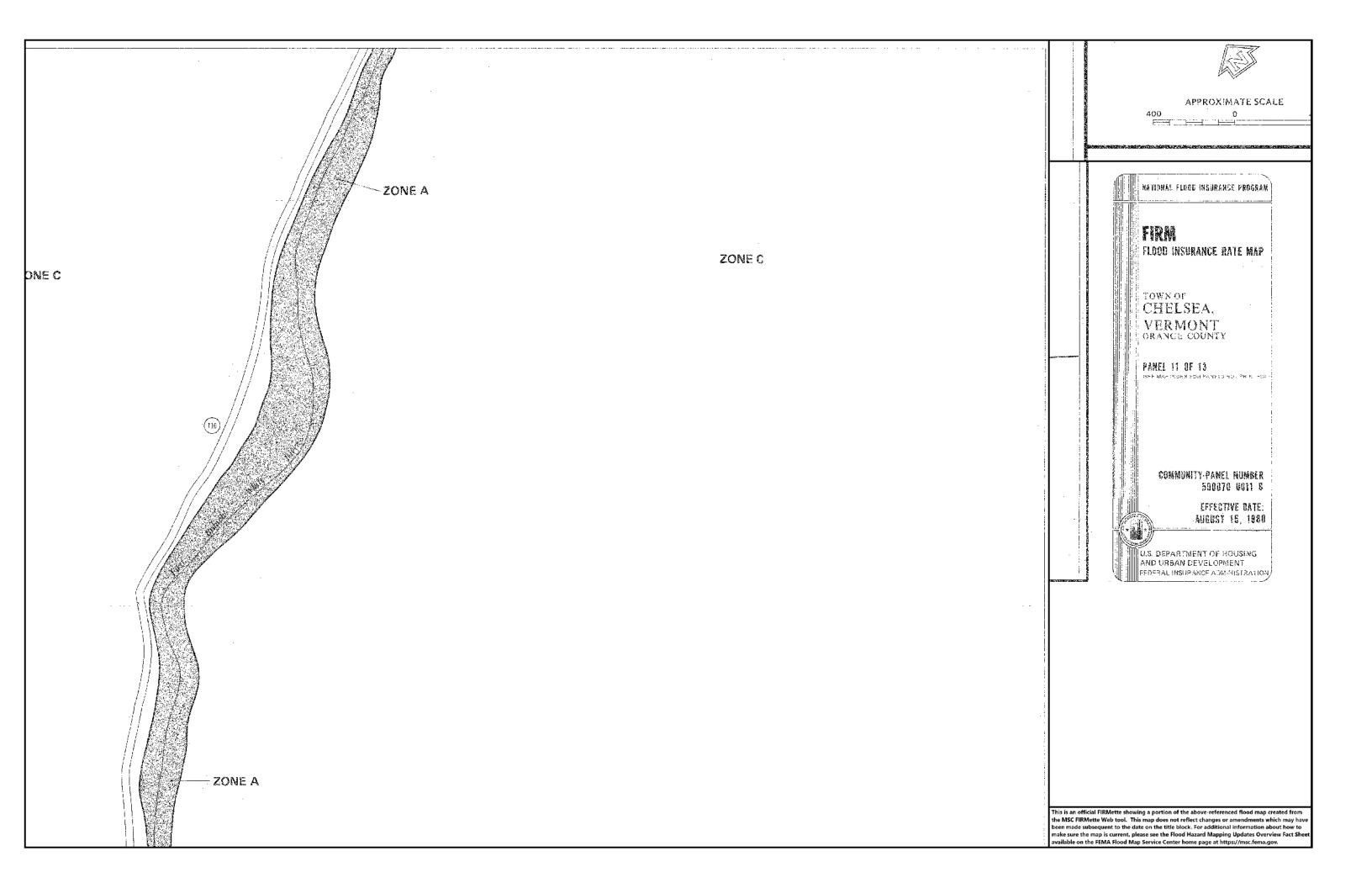
In conclusion, the bridge appears to have been designed to have an H-9 load rating. This load rating is less than that required by the state of Vermont for the design of most state highway and town highway bridges. For occasional deliveries the bridge will be able to support an 11 ton, 2 axle delivery truck.

If a higher load rating is required an additional layer of 2x rough sawn running planks maybe added directly over the existing running planks. This will increase the bridge's inventory rating to an H-11 (11 tons) and an operating rating H-15 (15 tons). For occasional deliveries the bridge will be able to support an 15 ton, 2 axle truck.

If there are any question concerning this report, please feel free to call write.

Sincerely,

Christopher J. Temple, P.E.





## **Vermont Mandatory Flood Disclosure**



Date Prepa	red:			_				
Seller's Nar	ne(s):	Julie A. Goraj			Steven D. Levin			
		Sandra F. Shoshar	ni					
Property Address:		Lot 6 - Meadowbro	ook Ln, Chelsea, V	Г 05038				
		Street	t		City/Town			
property to official Floo either onlin	the Buy d Insura e or thr	ver. Sellers are re Ince Rate Map (F	equired to provio FIRM) published office. The Fed	de a phy by FEM eral Eme	ont to disclose the flood resical, electronic, or digitand IA. It is the Seller's respondergency Management Age	l link to a copy sibility to loca	of the te this r	map,
A copy	of the FI	EMA map for the	e Property is atta	ached; o	or,			
☐ A link to	the FE	MA map for the	Property is as fo	llows:				
								; or,
☐ A FEMA	map is	unavailable for t	he Property or	the com	munity in which the prop	erty is located		-' '
posse	Has the Property been subject to flooding or flood damage while the seller possessed the property, including flood damage from inundation or from flood-related erosion or landslide damage?						No	
1a If yes,	, please	describe:						
2 Does	the selle	er maintain flood	d insurance on t	he Prop	erty?	Yes	$\checkmark$	No
TH	IE STATE				THE SELLER. THEY ARE NO		S OR	
		REPRESE	dotloop verified	i e	IY REAL ESTATE AGENT(S).	dotloop verified		
Jenen	ature)		09/16/25 2:25 PM EDT 36ZP-4WER-CJI2-SQW2	Seller:	Steven D. Levin (Signature)	09/17/25 8:43 AI 3EWM-HVTN-YR	M EDT ZK-XAAF Date)	
(Sign	ature)		dotloop verified	Ī	(Signature)	(L		
Seller.	tra F. Shosi ature)	hani	09/17/25 10:08 AM IDT 925Z-QLDW-ITZT-UFT1 (Date)	Seller:	(Signature)	(D	Date)	
Buver ack	nowledo	ges receipt of this	s Disclosure. It i	s the Bu	yer's responsibility to revi	ew any attach	ed or lir	ıked
•	or infor	nation regarding	g potential flood	l hazard	areas affecting the Prope at https://msc.fema.gov/p	erty. There may		
Buyer:				Buyer:				
	gnature)		(Date)	•	(Signature)	(D	Pate)	
Buyer:				Buyer:				
	gnature)		(Date)	, , ,	(Signature)	(0	Pate)	

## Know all Persons by These Presents

That

I, HERBERT LEVIN,

JULIE A. GORAJ of East Wallingford, County of Rutland, and State of Vermont, STEVEN D. LEVIN of Nashua, County of Hillsboro, and State of New Hampshire, and SANDRA F. SHOSHANI

JULIE A. GORAJ, STEVEN D. LEVIN and SANDRA F. SHOSHANI, all as joint tenants with the right of survivorship,

certain piece of land in Chelsea
County of Warren
follows, viz:

and their heirs and assigns forever, a
in the
and State of Vermont, described as

Being all my right, title and interest in and to the same lands and premises conveyed to me by Warranty Deed of Vermont National Land Corp. dated May 2, 1985 and recorded in Book 41 at Page 55-56 of the Town of Chelsea Land Records and to which deed and the records thereof, reference is had for a further and more particular description.

To have and to hold said granted premises, with all the privileges and appurtenances thereof, to the said Grantees, JULIE A. GORAJ, STEVEN D. LEVIN and SANDRA F. SHOSHANI, as joint tenants with the right of survivorship, and their heirs and assigns, to their own use and behoof forever; the said Grantor, And HERBERT LEVIN, andheirs, myself executors and administrators, do covenant with the said Grantees, JULIE A. GORAJ, STEVEN D. LEVIN and SANDRA F. SHOSHANI, and their  $\,$ heirs and assigns, that until the ensealing of these presents I am the sole owner of the premises, and have good right and title to convey the same in manner aforesaid, that they are Free from energy encumbrance; except as aforesaid, and I, the said Grantor, HERBERT LEVIN, hereby engage to Marrant and Befend the same against all lawful claims whatever, except as aforesaid. In Witness Whereof, ·I hereunto set hand and seal my 8th A. D. 19 F7 day of June In Presence of COMMONWEALTH OF MASSACHUSETTS Willstey. rachusetts 55. this A. D. 1987, MIDDLESEX County day of June HERBERT LEVIN personally appeared, and him sealed a acknowledged this instrument, by he sealed and subscribed, to be his free act and deed. Before me. NOTARY PUBLIC (Title)

Chelsea Town Clerk's Office June 17, 1987 at 9:22am rec'd for record a Warranty Deed of which the foregoing is a true copy.

Barbara & Chambers Assistant Town Clerk

Fermont Property Transfer Tax 32 V.S.A. Chap. 231 ACKNOWLEDGMEN Return No. A 85 956 SenedBarbara & Chank

## Know all Memby these Airsents

That It, VERMONT NATIONAL LAND CORP., a Vermont corporation with principal place of business in the Town

HERBERT L. LEVIN

of Woburn in the County of and State of Massachusetts Grantee , by these presents, does freely Give, Grant, Sell, Convey and Confirm unto the said Grantee

HERBERT L. LEVIN

certain piece of land in Chelsea and his heirs and assigns forever, a in the County of Orange and State of Vermont, described as follows, viz:

Being a portion of the lands and premises conveyed to the herein Grantor by the following deeds: Levi F. Barnaby and Edward H. Barnaby dated January 4, 1984 and recorded in Book 40 at Pages 230 of the Town of Chelsea Land Records; and Lee Tucker and Vivian Tucker dated January 4, 1984 and recorded in Book 40 at Page 237 of the Town of Chelsea Land Records.

Meaning and intending to convey Lot No. 6, as shown on certain survey plats entitled "A. James Grace, Meadowbrook South and Meadowbrook North, Chelsea, Vermont", and prepared by Norman R. Smith, Inc. dated November 19, 1983 and December 22, 1983 respectively, and recorded in Map book 1 at Pages 47-48 of the Town of Chelsea Land Records.

LOT NO. 6: Beginning at an iron pin set in the fenceline, thence:

N 21° 54' W 1615.66' to an iron pin; thence; 252.5' to an iron pin on the East side of Route 110, thence: along Route 110 to a small Southwesterly 265' brook, thence; down said brook to the center S 20° 15' E 137' of the First Branch of the White River, thence; 203' to an iron pin, thence; 1758.53' to an iron pin in the fence-S 20° 15' E S 21° 441 E line, thence; 367.81' to the beginning, N 30° 40' E

Containing 13.08 acres, more or less.

Subject to and benefitted by a perpetual easement and right of way in favor of other grantees of Meadowbrook South and Meadowbrook North, over and upon the existing steel and cement bridge leading from Route No. 110 across the first branch of the White River to provide access to the Meadowbrook Road.

To have and to hold said granted premises, with all the privileges and appurtenances thereof, to the said Grantee,

HERBERT L. LEVIN,

and her heirs and assigns, to their own use and behoof forever; the said Grantor And it

VERMONT NATIONAL LAND CORP.,

for itself and it's heirs,

HERBERT L. LEVIN, and his

heirs and assigns, that until the ensealing of these presents — it is the sole owner of the premises, and have good right and title to convey the same in manner aforesaid, that they are Free from every encumbrance;

except as aforesaid, and

hereby engage to Marrant and Defend the same against all lawful claims whatever, except as aforesaid.

In Witness Whereof, it hereunto set it's hand and seal this 200 day of MAY A. D. 1985							
In Fresence of VERMONT NATIONAL LAND CORP., a Vermont Corporation							
Lauralh Spellman  By:     AMIN   Laure   By:   Duly Authorized Agent							
Witness							
Witness Vermont Property Transfer tex							
32 V.S.A. Chap. 231  —ACKNOWLEDGMENT— Peturn Rec'd.—Tax Faid—Board of Hwaith Cert. Rec'd.— Vt. Land Use & Development Plans Act Cert. hec'd.  Return No. 772 5 3 2 8							
Signed Maders Diamers, Clerk Date May 6, 1985							
State of Hermont,  RUTLAND County  A. JAMES GRACE, President							
personally appeared, and he acknowledged this instrument, by him sealed and subscribed, to be his free act and deed and the free act and deed of VERMONT NATIONAL LAND CORP.  Before me Jonata Struct							
Notary Public (Title)							
Chelsea Town Clerk's Office May 6, 1985 at 9:48 A.M. Rec'd for record a Deed of which the foregoing is a true copy.  Attest: Hubert (Lambers							

Town Clerk