Project Application Land Use Department

-	Proj.	ect Name: Major Subdivis	ion for Paul Thibodeau	Date 2/15/23
Name of the last o		Staff Signature required P	RIOR to submittal	
PRELIMINARY A	PPLICATION: Preliminar	ry Conceptual Review _	Design Review	Development of Regional Impact _
FORMAL APPLIC	ATION:			
Subdivision Type:	Major X Minor		1	F2
Site Plan Review:	VIIIIOI		_ Conservation	<u>X</u>
	Conditional Use Permit	Sion Permit	Daniel Ing Adi	
	Change of Use Ext	tension for Site Plan an C	boundary Line Aujushdivision Completion	ustment Special Permit _
The state of the state of	The Hamelit to Subdivisit	on/Site Plan Approval	Other	_
Project Name:	Thibodead Subdivision	56500		Area (Acres or S.F) 65.55
Project Address	Young Rd			
Current Zoning	District(s): Neighbor	rhood Residential	Man(s) 240	Lot(s) _ 8
Request: To subdiv	vide the property into 23 Lots using	the Conservation Subdivision C	Ordinance.	Lot(s) _ o
The property owner shall	designate an agent for the project	This person (the applicant) sl	pall attend pre-application conf	erences and public hearings, will receive th
agenda, recommendations	s, and case reports, and will comm	iunicate all case information to	other parties as required.	erences and public hearings, will receive th
	The contacts for	or this project will be made the	rough the Applicant listed bel	ow.
Owner: Norma Be		1410		
Company				
Diame.				
			E-mail:	
	Union St, Natchez, MS		E-mail	
Address: 802 North	Union St, Natchez, MS	Fax:39120		
Address: 802 North Applicant (Contact) Company	Union St, Natchez, MS :	Fax:39120	E-mail:	
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552	Union St, Natchez, MS :	Fax:		
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552	Union St, Natchez, MS :	Fax:		
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer:	union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone:	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone:	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address:	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address:	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: Company Phone:	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Architect: Company	Union St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: Address:	Hunion St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Chone: Address: Company Chone: Company Chone: Company Chone: Company Chone: Company Chone: Company Chone: Chadress:	Paul Thibodeau Rd, Barrington, NH 0382	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: C	Nunion St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382 A. Berry, PE, LLS	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: Address: Company Phone: Address: Company Phone: Address: Menneth Address: Company Berry Survitone: 603-332-286	A. Berry, PE, LLS /eying & Engineering	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: Address: Company Phone: Address: Company Phone: Address: Menneth Address: Company Berry Survitone: 603-332-286	Nunion St, Natchez, MS : Paul Thibodeau Rd, Barrington, NH 0382 A. Berry, PE, LLS	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Company Phone: Address: Company Phone: Address: Company Phone: Address: Menneth Address: Company Berry Survitone: 603-332-286	A. Berry, PE, LLS /eying & Engineering	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Architect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: March	A. Berry, PE, LLS /eying & Engineering	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Architect: Company Phone: Address: Company Phone: Maddress: Marchitect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: Marc	Paul Thibodeau Rd, Barrington, NH 0382 A. Berry, PE, LLS Veying & Engineering 63 d Crown Point Rd, Barring	Fax:	E-mail:	paulthibodeau1@gmail.com
Address: 802 North Applicant (Contact) Company Phone: 603-767-3552 Address: 76 Young Developer: Company Phone: Address: Architect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: Company Phone: Address: Marchitect: March	A. Berry, PE, LLS /eying & Engineering	Fax:	E-mail: E-mail:	paulthibodeau1@gmail.com

TOWN OF BARRINGTON - LAND USE DEPARTMENT

PROJECT NARRATIVE

PROJECT NAME Proposed Subdivision For Paul Thibodeau	CASE FILE NUMBER 240-8-NR-23-Sub(23)
PROJECT LOCATION Young Road	340(23)
DATE OF APPLICATION 2-15-23	
Property Details:	
Single-Family x Residential Multi-Family Residentia	al Commercial Industrial
Current Zoning: Neighborhood Residential Lot Area Size	e 65.55
Setbacks: Front 40' Conventional Side 20' Conservation	al 30' Conventional 20' Conservation
Parking Spaces Required: 0 Parking Sp	aces Provided: 0

Please describe your project and its purpose and intent. You may attach a typed description.

The applicant is proposing to subdivide the subject parcel using the Conservation Subdivision Ordinance. A yield plan was developed which provides for 23 lots in a conventional subdivision layout. The applicant is proposing the same 23 lots in a subdivision that utilizes the existing roadway infrastructure and does not propose any new roadways. The proposed open space for the project is central to the most valuble recources on the property and is adjacent to the protected lands owned by the Town and eased by SELT.

There is an existing cistern on the project site.

The applicant proposes to keep an existing trail through the property to the conserved land open and free of proposed driveways and lots. Shared driveways will be proposed in areas which lend to the best sight distances so as to reduce the number of curb cuts needed for the project. The application has received a variance to allow the driveways to be within the front buffer, to allow the front buffer to be received on certian lots, and to allow the front buffer to be incorporated into the lots. The application has also received a special exception

Wetlands have been delineated and survey located on the project site. Prime Wetland #4 is located in the middle of the parcel and as such the 100' buffer is shown in areas where it is not otherwise affected by the 50' wetlands buffer. Areas less than 3,000 SF to not require buffers. The project design does not require any 9.6 requests.

The applicant has incororated the connections to the open space area previously discussed at the Preliminary Hearing. In addition the final plans now provided for driveway locations and sight line profiles in each direction. There is one less driveway provided in this design from the previous design due to the conerns the board and abutting land owners had.

Applicant: Major Subdivision Case # 240-8-NR-23- Sub (23)

Subdivision, Site Review, and Lot Line Adjustment Application Checklist Barrington Planning Board Adopted January 20, 2009

This checklist is intended to assist applicants in preparing a complete application for subdivision as required by the Barrington Subdivision Regulations and must be submitted along with all subdivision applications. An applicant seeking subdivision approval shall be responsible for all requirements specified in the Barrington Subdivision Regulations even if said requirements are omitted from this checklist.

An applicant seeking subdivision approval shall be responsible for providing all the information listed in the column below entitled "Subdivision" and should place an "x" in each box to indicate that this information has been provided. If an item is considered unnecessary for certain applications the "NA" box should be marked instead indicating "Not Applicable". Only certain checklist items are required for lot line adjustments, as noted by the applicable check boxes below.

Check The Appropriate Box or Boxes Below:	-			
I I ad I have Date of the I have been a second and the I have been a secon				
00-4			l	
See Section I & II See Sections I & II See Sections I, II, III, IV & V		,		
è	9			
	ig	NA NA		
	Provided	Z		
Section I.	<u> </u>			
General Requirements 1. Completed Application Form		1		8 2
	0			
2. Complete abutters list		П		
Payment of all required fees	П	П	·	
4. Five (5) full size sets of plans and six 12 sets of plans 11" by 17" submitted with all	i	H	,	-
required information in accordance with the subdivision regulations and this				
cnecklist				.
5. Copies of any proposed easement deeds, protective covenants or other legal	Ġ			\vdash
documents	-	L		
Any waiver request(s) submitted with justification in writing				
7. Technical reports and supporting documents (see Sections IX & X of this checklist)				
Completed Application Checklist		7		_
Section II.		ט		-
General Plan Information				
1. Size and presentation of sheet(s) per registry requirements and the subdivision	(Ca)	_		-
regulations		Ö		
Title block information:	[7]	П		
a. Drawing title				
b. Name of subdivision				
c. Location of subdivision				
d. Tax map & lot numbers of subject parcel(s)				

FFR 15 2023

(date of adoption)

			7	-
e. Name & address of owner(s)				Γ
f. Date of plan				
g. Scale of plan				
h. Sheet number				
l. Name, address, & telephone number of design firm		0		
J. Name and address of applicant				_
Revision block with provision for amendment dates				
4. Planning Board approval block provided on each sheet to be recorded	0	1		_
Certification block (for engineer or surveyor)		0		
6. Match lines (if any)				
7. Zoning designation of subject parcel(s) including overlay districts		6		_
Minimum lot area, frontages & setback dimensions required for district(s)	16	금		
List Federal Emergency Management Agency (FEMA) sheet(s) used to		님		
identify100-year flood elevation, locate the elevation				
10. Note the following: "If, during construction, it becomes apparent that deficiencies		-		
exist in the approved design drawings, the Contractor shall be required to correct	D.			•
the deficiencies to meet the requirements of the regulations at no expense to the		ı		
Town."				
11. Note the following: "Required erosion control measures shall be installed prior to			-	_
any disturbance of the site's surface area and shall be maintained through the				
completion of all construction activities. If, during construction, it becomes				
apparent that additional erosion control measures are required to stop any erosion		1		
on the construction site due to actual site conditions, the Owner shall be required				
to install the necessary erosion protection at no expense to the Town."				
12. Note identifying which plans are to be recorded and which are on file at the town.				
13. Note the following: "All materials and methods of construction shall conform to				
Town of Barrington Subdivision Regulations and the latest edition of the New			.	
Hampshire Department of Transportation's Standard Specifications for Road & Bridge Construction."		. 1		
14. North arrow		_		
	0			
 Location & elevation(s) of 100-year flood zone per FEMA Flood Insurance Study Plan and deed references 				
17. The following notes shall be provided:				
a. Purpose of plan				
b. Existing and proposed use				
c. Water supply source (name of provider (company) if offsite)				
d. Zoning variances/special exceptions with conditions				
e. List of required permits and permit approval numbers				
f. Vicinity sketch showing 1,000 feet surrounding the site				
g. Plan index indicating all sheets				
18. Boundary of entire property to be subdivided			\neg	•
19. Boundary monuments				-
a. Monuments found	0	0	\dashv	
b. Map number and lot number, name addresses, and zoning of all abutting land		금	\neg	
owners			.	
c. Monuments to be set				•
20. Existing streets:	0		-+	
a. Name labeled				
b. Status noted or labeled	0.		-+	_
c. Right-of-way dimensioned	6			
d. Pavement width dimensioned	6	H		
21. Municipal boundaries (if any)	L L	님	-	
\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.			- 1	- 0

b. Contiguous uplands(s)			
5. Proposed streets:			
a. Name(s) labeled	+-		-
b. Width of right-of-way dimensioned	18		
c. Pavement width dimensioned	18	10	
6. Source and datum of topographic information (USGS required)			
7. Show at least one benchmark per sheet (min.) and per 5 acres (min.) of total site area			
Soil Conservation Service (SCS) soil survey information			
Location, type, size & inverts of the following (as applicable):			
'a. Existing water systems			
b. Existing drainage systems		0	
c. Existing utilities			
10. 4K affluent areas with 2 test pit locations shown with sultable leaching areas			
Location of all water wells with protective radii as required by the NH Department			
Of Environmental Services (meeting Town and NHDES setback requirements)			
12. Existing tree lines			
13. Existing ledge outcroppings & other significant natural features			
14. Drainage, Erosion and Sediment Control Plan(s) containing all of the requirements			
specified in Section 16.3.2 (Final Plan Requirements) of the Subdivision Regulations		0	
Section IV		-	
Construction Detail Drawings			
Note: Construction details to conform with NHDOT Standards & Specifications for			
Roads & Bridges, Town of Barrington Highway Department requirements, and Subdivision Regulations			
1 Typing group continue of readily		(CONT.)	
Typical cross-section of roadway			
Typical driveway apron detail			
Typical driveway apron detail Curbing detail		All Street	
Typical driveway apron detail Curbing detail Guardrall detail			
Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail			
Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings			
2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s):			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron 			
2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s): 8. Outlet protection riprap apron 9. Level spreader			
2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s): 8. Outlet protection riprap apron 9. Level spreader 10. Treatment swale		000000	
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin 			
2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s): 8. Outlet protection riprap apron 9. Level spreader 10. Treatment swale 11. Typical section at detention basin 12. Typical pipe trench			
2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s): 8. Outlet protection riprap apron 9. Level spreader 10. Treatment swale 11. Typical section at detention basin 12. Typical pipe trench 13. Fire protection details			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes Water system construction notes 			
 2. Typical driveway apron detail 3. Curbing detail 4. Guardrall detail 5. Sidewalk detail 6. Traffic signs and pavement markings 7. Drainage structure(s): 8. Outlet protection riprap apron 9. Level spreader 10. Treatment swale 11. Typical section at detention basin 12. Typical pipe trench 13. Fire protection details 14. Erosion control details: 15. Construction Notes a. Construction sequence b. Erosion control notes c. Landscaping notes d. Water system construction notes e. Sewage system construction notes 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes Water system construction notes Sewage system construction notes Existing & finish centerline grades 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes Water system construction notes Sewage system construction notes Existing & finish centerline grades Proposed pavement - Typical cross-section 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Dralnage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes Water system construction notes Sewage system construction notes Existing & finish centerline grades Proposed pavement - Typical cross-section Right-of-way and easement limits 			
 Typical driveway apron detail Curbing detail Guardrall detail Sidewalk detail Traffic signs and pavement markings Drainage structure(s): Outlet protection riprap apron Level spreader Treatment swale Typical section at detention basin Typical pipe trench Fire protection details Erosion control details: Construction Notes Construction sequence Erosion control notes Landscaping notes Water system construction notes Sewage system construction notes Existing & finish centerline grades Proposed pavement - Typical cross-section 			

_(date of adoption)

FFB 15 2023

·					
• .					
r water bodies		. 🗆			
poles, towers, etc.					
wn over all subject parcels					
and zoning of all abutting land owners					
£ 6		1			١
ection II General Plan Information)					
ed Land Surveyor					
s and bounds				<u>.</u>	
oounds. Check each type of proposed					l
		_			1
					Į
					1
porary turnaround)		. 0			
				'	
	-				
The state of the s					
A summary of the summ					
			*:		
	. '				
FEB 1.5 2023					4
				357	•
				•	

APPLICATION AGREEMENT

I hereby apply for Subdivision Plan Review and acknowledge I will comply with all of the ordinances of the Town Of Barrington, New Hampshire State Laws, as well as any stipulations of the Planning Board, in development and construction of this project. I understand that if any of the subdivision Plan or Application specifications are incomplete, the Application will be considered rejected.

In consideration for approval and the privileges accruing thereto, the subdivider thereby agrees:

- E. To carry out the improvements agreed upon and as shown and intended by said plat, including any work made necessary by unforeseen conditions which become apparent during construction of the subdivision.
- E. To post all streets "Private" until accepted by the Town and to provide and install street signs as approved by the Selectmen of the Town for all street intersections.
- E. To give the Town on demand, proper deeds for land or rights-of-way reserved on the plat for streets, drainage, or other purposes as agreed upon.
- E. To save the Town harmless from any obligation it may incur or repairs it may make, because of my failure to carry out any of the foregoing provisions.
- E. Mr/Mrs Any Member of Berry Surveying & Eng. to whom all communications to the subdivider may be addressed with any proceedings arising out of the agreement herein.

 Signature of Owner:

 Signature of Developer:

 Technical Review Signatures:

 Town Engineer/Planner Approval Signature:

 filling of this application as indicated above, hereby give permission for any member of the

The owners, by the filing of this application as indicated above, hereby give permission for any member of the Barrington Planning Board, the Town Engineer, The Conservation Commission and such agents or employees of the Town or other persons as the Planning Board may authorize, to enter upon the property which is the subject of this application at all reasonable times for the purpose of such examinations, surveys, test and inspections as may be appropriate.

FEB 1-5 2023

Section V				
Supporting Documentation If Required				
Calculation of permitted housing density (for Conservation Subdivisions only as required in Article 6 of the Barrington Zoning Ordinance)			,	
2. Stormwater management report	0	0		
Traffic impact analysis		O		
4. Environmental impact assessment				
5. Hydrogeologic study				
6. Fiscal impact study provided				_
 Calculation of permitted housing density (for Conservation Subdivisions only as required in Article 6 of the Barrington Zoning Ordinance) 	0			
Site Inventory and Conceptual Development Plan (from preliminary Conservation Subdivision review only)	on 🔲	O		

FEB 15 2023

LAND USE OFFICE

(Refusal to sign this permission form does not invalidate an application, but the Planning Board may not be able to make an informed decision regarding unseen lands with potential areas of concerns).

Signature of Owner:

Note: The developer/individual in charge must have control over all project work and be available to the Road Agent and Code Enforcement Officer during the construction phase of the project. The Road Agent and Code Enforcement Officer must be notified within two (2) working days of any change by the individual in charge of the project.

EER 15 2023

ADMINISTRATIVE AND REVIEW FEES



BERRY SURVEYING & ENGINEERING

335 Second Crown Point Road Barrington, NH 03825 Phone: (603) 332-2863 Fax: (603) 335-4623

February 15, 2022

www.BerrySurveying.Com

Town of Barrington Planning Board 333 Calef Highway Barrington, NH 03825

RE: Thibodeau Subdivision

Waiver Request Young Road

Tax Map 240, Lot 8

Dear Chairman and Members of the Barrington Planning Board,

In accordance with the subdivision standards Article 8, 8.1 General Waiver Provision, the following waiver is hereby requested:

1. Identification of Waiver Request:

- Definition of Sight Distance to be consistent with common practice, NHDOT Standards and AASHTO Standards.
- Intersection Design Figure 4A.
- Definitions Sight Distance

2. Explanation:

The requirements found in the definitions and in Figure 4A are misapplied for driveway applications and deviates from standard use and practice of the American Association of State Highway and Transportation Officials (AASHTO) Geometric Design of Highways and Streets, 7th Edition (2018) (aka Green Book). The regulations also differ from the requirements of New Hampshire Department of Transportation (NHDOT) Driveway Policy.

The driveway section 12.3 points to Figure 4A which is found in the Road Design section of the regulations when describing regulations for a residential driveway. Figure 4A is of a vehicle sitting at a functional intersection with a stop bar and stop sign, implying its purpose is for a new road or similar, not a residential driveway. Figure 4A being found in the Road Design section has the same implication. The definition supplied in the subdivision regulations for stopping sight distance states that it is a calculated requirement from the driver's eye of 3.5' looking at an object 0.5' which is misapplied from the AASHTO manual for the purposes of calculating sight distance. In the 2018 revision, section 3.2.6 "Criteria for Measuring Sight Distance", stopping sight

FEB 15 2023

distance is calculated with a driver assumed to be at 3.5' looking at an object 2.0' tall along the alignment of the roadway. *The revision here is that prior, now outdated, manuals calculated this as 3.5' looking at 0.5' tall.*

The misapplication comes in the form of a clarifying paragraph entitled "Intersection Sight Distance" which states that, when calculating intersection sight distance heights, Passing Sight Distance which uses the same object height function of 3.5' looking at 3.5' should be utilized. The pages from the AASHTO Green Book are included at the end of this document on pages 3 and 4. In all applications to the NHDOT, as found in the NHDOT driveway policy, the requirement is an object traveling at 3.75' tall looking at an object of the same height, 3.75'. The page from the NHDOT policy detailing this is included at the end of this document on page 5. This project is requesting to use the NHDOT standard.

3. Waiver Justification:

a. Granting the waiver will properly carry out the purpose and intent of the regulations.

The purpose and intent of requiring sight distances to a certain standard is to ensure the safety of drivers and future occupants of the residential homes on the Town roadway system. We submit that the proposed design carries out this purpose and intent through the proper use of the NHDOT driveway policy along with the proper use of the AASHTO Green Book.

b. Strict conformity to the regulations would pose an unnecessary hardship to the applicant.

Strict conformity would place a burden on the applicant by way of additional excavation on a roadway that would not ordinarily be required. Additionally, this would result in driveways not meeting Barrington sight distance requirements when the sight distance provided is consistent with NHDOT measuring techniques. It is unnecessary in that the standard required by the regulations is misapplied and far exceeds the standard regulations imposed by higher government agencies on more highly traveled roads.

Respectfully Submitted, BERRY SURVEYING & ENGINEERING

Christopher R. Berry Project Engineer Principal, President

The Country of Manager

Elements of Design

3-15

3.2.6 Criteria for Measuring Sight Distance

Sight distance is the distance along a roadway throughout which an object of specified height is continuously visible to the driver. This distance is dependent on the height of the driver's eye above the road surface, the specified object height above the road surface, and the height and lateral position of sight obstructions within the driver's line of sight.

3.2.6.1 Height of Driver's Eye

For all sight distance calculations for passenger vehicles, the height of the driver's eye is considered to be 3.50 ft [1.08 m] above the road surface. This value is based on a study (19) that found average vehicle heights have decreased to 4.25 ft [1.30 m] with a comparable decrease in average eye heights to 3.50 ft [1.08 m]. Because of various factors that appear to place practical limits on further decreases in passenger car heights and the relatively small increases in the lengths of vertical curves that would result from further changes that do occur, 3.50 ft [1.08 m] is considered to be the appropriate height of driver's eye for measuring both stopping and passing sight distances. For large trucks, the driver eye height ranges from 3.50 to 7.90 ft [1.80 to 2.40 m]. The recommended value of truck driver eye height for design is 7.60 ft [2.33 m] above the road surface.

3.2.6.2 Height of Object

For stopping sight distance and decision sight distance calculations, the height of object is considered to be 2.00 ft [0.60 m] above the road surface. For passing sight distance calculations, the height of object is considered to be 3.50 ft [1.08 m] above the road surface.

Stopping sight distance object—The selection of a 2.00-ft [0.60-m] object height was based on research indicating that objects with heights less than 2.00 ft [0.60 m] are seldom involved in crashes (19). Therefore, it is considered that an object 2.00 ft [0.60 m] in height is representative of the smallest object that involves risk to drivers. An object height of 2.00 ft [0.60 m] is representative of the height of automobile headlights and taillights. Using object heights of less than 2.00 ft [0.60 m] for stopping sight distance calculations would result in longer crest vertical curves without a documented decrease in the frequency or severity of crashes (19). Object height of less than 2.00 ft [0.60 m] could substantially increase construction costs because additional excavation would be needed to provide the longer crest vertical curves. It is also doubtful that the driver's ability to perceive situations involving risk of collisions would be increased because recommended stopping sight distances for high-speed design are beyond most drivers' capabilities to detect objects less than 2.00 ft [0.60 m] in height (19).

Passing sight distance object—An object height of 3.50 ft [1.08 m] is adopted for passing sight distance. This object height is based on a vehicle height of 4.35 ft [1.33 m], which represents the 15th percentile of vehicle heights in the current passenger car population, less an allowance of 0.85 ft [0.25 m], which represents a near-maximum value for the portion of the vehicle height that needs to be visible for another driver to recognize a vehicle as such (35). Passing sight dis-

3-1/

A Policy on Geometric Design of Highways and Streets

tances calculated on this basis are also considered adequate for night conditions because headlight beams of an opposing vehicle generally can be seen from a greater distance than a vehicle can be recognized in the daytime. The choice of an object height equal to the driver eye height makes passing sight distance design reciprocal (i.e., when the driver of the passing vehicle can see the opposing vehicle, the driver of the opposing vehicle can also see the passing vehicle).

Intersection sight distance object—As in the case of passing sight distance, the object to be seen by the driver in an intersection sight distance situation is another vehicle. Therefore, design for intersection sight distance is based on the same object height used in design for passing sight distance, 3.50 ft [1.08 m].

Decision sight distance object—The 2.00-ft [0.60-m] object-height criterion adopted for stopping sight distance is also used for decision sight distance. The rationale for applying this object height for decision sight distance is the same as for stopping sight distance.

3.2.6.3 Sight Obstructions

On a tangent roadway, the obstruction that limits the driver's sight distance is the road surface at some point on a crest vertical curve. On horizontal curves, the obstruction that limits the driver's sight distance may be the road surface at some point on a crest vertical curve or it may be some physical feature outside of the traveled way, such as a longitudinal barrier, a bridge-approach fill slope, a tree, foliage, or the backslope of a cut section. Accordingly, all highway construction plans should be checked in both the vertical and horizontal plane for sight distance obstructions.

3.2.6.4 Measuring Sight Distance

The design of horizontal alignment and vertical profile using sight distance and other criteria is addressed in Sections 3.3 through 3.5, including the detailed design of horizontal and vertical curves. Sight distance should be considered in the preliminary stages of design when both the horizontal and vertical alignment are still subject to adjustment. Stopping sight distance can easily be determined where plans and profiles are drawn using computer-aided design and drafting (CADD) systems. The line-of-sight that must be clear of obstructions is a straight line for the driver's eye position to an object on the road ahead, with the height of the driver's eye and the object as given above. The vertical component of sight distance is generally measured along the centerline of the roadway. The horizontal component of sight distance is normally measured along the centerline of the inside lane on a horizontal curve. By determining the available sight distances graphically on the plans and recording them at frequent intervals, the designer can review the overall layout and produce a more balanced design by minor adjustments in the plan or profile.

Because the view of the highway ahead may change rapidly in a short travel distance, it is desirable to measure and record sight distance for both directions of travel at each station. Both horizontal and vertical sight distances should be measured and the shorter lengths recorded.

AASHTO Green Book page

REC

Policy Adopted 3-10-00

- (d) In cases where a permit is requested for a limited access highway as defined in RSA 230:44 and 45, the number of permanent points of access as specified in the acquisition documents on file at the bureau of right-of-way shall not be exceeded.
- (e) In cases where an applicant is seeking a permit for a simple residential driveway, the applicant may shorten the permit process in accordance with section 5.
- (f) Where entrances to state highways have been constructed after July 1, 1971 without benefit of a permit, or not constructed according to the permit issued, the entrances shall be considered non-conforming. Upon notification by the district engineer, the owner shall apply for a permit and make the necessary alterations as required by this policy.
- (g) Compliance with this policy shall not relieve the applicant from the responsibility to comply with other federal, state or local ordinances, rules or regulations.
- (h) In cases where a permit has been denied, the applicant may initiate the appeals process by submitting in writing a request for a hearing.
- (i) Appendix I contains a list of highway districts and locations from which permit applications may be requested. Appendix II contains figures of typical driveway design standards for illustrative purposes, and standard conditions applicable to all permits. Appendix III contains a copy of the driveway statute, RSA 236:13 and Appendix IV contains a sample of a request for a wetland permit from the Department of Environmental Services.

3. Definitions.

- (a) "Algebraic difference" means the absolute value of the arithmetic difference between 2 grades in a driveway. For example, a driveway with one grade of +2% and a second grade of -3% would have an algebraic difference of 5%. The algebraic difference provides a numerical guideline for establishing maximum safe grade differentials.
- (b) "All-season safe sight distance" means a line that encounters no visual obstruction between 2 points, each at a height of 1.14 meters or 3 feet 9 inches above the pavement, allowing for a snow windrow and/or seasonal changes. The line represents the line of sight between the operator of a vehicle using the driveway (point 1) and the operator of a vehicle approaching from either direction (point 2).
 - (c) "Alteration" means any work on a driveway including, but not limited to:
 - (1) Paving and repaving;
 - (2) Regrading;
 - (3) Widening;
 - (4) Changing its use;
 - (5) Changes in existing drainage affecting the highway; and

Page 4 of 31

A POLICE OF THE PARTY OF THE PA

October 31, 2022

Berry Surveying and Engineering

335 Second Crown Point Road

Barrington NH 03825

(603) 332-2863

Re: Map 230 Lot 8

This letter is to authorize Berry Surveying and Engineering as our agent to represent us, Paul & Linda Thibodeau of 76 Young Road, Barrington NH 03825, for presentation to local planning, zoning boards and other authorities in the town of Barrington NH. To sign as our agent, as needed, all required applications to facilitate the process for final approval of a subdivision for the property known as Map 230 Lot 8 Barrington NH 03825.

Paul Thibodeau

dotloop verified 10/31/22 1:37 PM EDT AF3E-MEUE-LYYL-GLCM

Linda Thibodeau

dotloop verified 10/31/22 1:39 PM EDT ASMB-4SEG-CPZ2-SSXA

Paul Thibodeau

Linda Thibodeau

CEN 13