

Preliminary Subdivision Application

Application & Supporting Documents

Roaring Brook Subdivision

Proposed Two (2) Lot Subdivision

Carver Road West
Parcel ID: ZD-37

Submitted to:

Town of Shutesbury
Planning Board
1 Cooleyville Rd
Shutesbury, MA 01072

Applicant & Owner:

WD Cows, Inc
PO Box 9677
North Amherst, MA 01059



Sm

June 26, 2020

RLA Project File: 200515
Carver Road Lot

RECEIVED JUN 26 2020

8:15 am

R LEVESQUE ASSOCIATES, INC

A LAND PLANNING SERVICES COMPANY

40 School Street, P.O. BOX 640, Westfield, MA 01085
p 413.568.0985 · f 413.568.0986 · www.rlaland.com

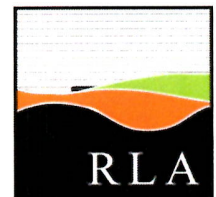


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PRELIMINARY SUBDIVISION APPLICATION
ROARING BROOK SUBDIVISION
CARVER ROAD WEST
PARCEL ID: ZD-37

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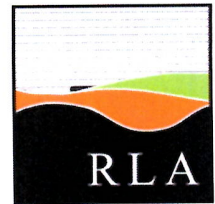
APPENDIX I

"ROARING BROOK SUBDIVISION" PRELIMINARY SUBDIVISION PLAN,
PREPARED FOR WD COWLS, INC.,
BY R LEVESQUE ASSOCIATES, INC. DATED JUNE 24, 2020

SECTION 1
COVER LETTER

R LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085
p 413.568.0985 · f 413.568.0986 · www.rlalnd.com



January 26, 2020

Mr. Deacon Bonnar, Chairman
Town of Shutesbury Planning Board
1 Cooleyville Rd
Shutesbury, MA 01072

**RE: Preliminary Subdivision
Roaring Brook Subdivision
Carver Road West
Shutesbury, MA
Parcel ID: ZD-37**

Dear Mr. Bonnar & Board Members,

On behalf of the applicant, WD Cows, Inc., we are herein submitting a Preliminary Subdivision Application for a two-lot subdivision to be located on at the above referenced property. Enclosed herewith, please find the required application and supporting documents.

Should you have any questions regarding this project, please do not hesitate to contact our office at your convenience.

Sincerely,
R LEVESQUE ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Sofia A. Bitzas', is written over a light blue horizontal line.

Sofia A. Bitzas, JD
Director of Operations

cc: WD Cows, Inc

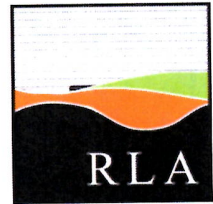
A LAND PLANNING SERVICES COMPANY

SECTION 2

NOTICE TO THE TOWN CLERK

R LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085
p 413.568.0985 · f 413.568.0986 · www.rland.com



June 26, 2020

Susie Mosher, Town Clerk
Town of Shutesbury Clerk's Office
1 Cooleyville Road
Shutesbury, MA 01072

**RE: Notice to the Clerk
Roaring Brook Subdivision - Preliminary Subdivision
Carver Road West
Shutesbury, MA
Parcel ID: ZD-37
RLA # 200515**

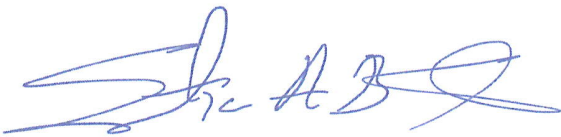
**Notice to Town Clerk Pursuant to Section III.B. – Filing Procedure
of The Town of Shutesbury Regulations Governing the Subdivision of Land**

I, Sofia A. Bitzas, JD, of R. Levesque Associates, Inc., hereby provide notice that the owner/applicant, W.D. Cows, Inc., has filed with the Town Clerk on June 26, 2020 items Section III.B.1- Section III.B.4 of the Regulations Governing the Subdivision of Land, as well as a copy of the Plan, Application Form B, and draft of the Development Impact Statement for a Preliminary Subdivision on the above referenced property.

If you have any questions regarding this matter, please feel free to contact our office at your convenience.

Sincerely,

R LEVESQUE ASSOCIATES, INC.



Sofia A. Bitzas, JD
Director of Operations

SECTION 3

PRELIMINARY SUBDIVISION APPLICATION (FORM B) AND
COPY OF APPLICATION FEE

Carver Rd Lot
Montague (ZD-37 - Carver Road West)

APPLICATION FOR APPROVAL OF
PRELIMINARY SUBDIVISION PLAN

Instructions: See Part III.B. of the Rules and Regulations
Governing the Subdivision of Land in Shutesbury

Date June 25, 2020

To the Planning Board and the Board of Health:

The undersigned herewith submits the accompanying Preliminary Plan of a
subdivision of property located in the Town of Shutesbury for study,
discussion, and approval under the Subdivision Control Law and the Rules and
Regulations Governing the Subdivision of Land in Shutesbury.

1. Name of Subdivider WD Cows, Inc.
Address PO Box 9677, North Amherst, MA 01059
Telephone 413 549 1403

2. Name of Owner of Land WD Center
(if not subdivider)
Address _____
Telephone _____

3. Name of Surveyor R. Levesque Associates, Inc. (Robert M. Levesque, RLA, ASLA)
Address 40 School Street, Westfield, MA, 01085
Telephone 413-568-0985

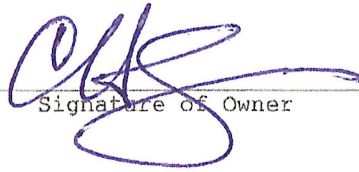
4. Deed(s) of property recorded in the Franklin County Registry of Deeds:

Deed Book 1228 Page 012
Deed Book _____ Page _____
Deed Book _____ Page _____
*Please see additional deed reference

File Reference _____

5. Location and description of property by reference to the
Town Atlas/Tax Map:

Map ZD Parcel 37 ; Map _____ Parcel _____
Map _____ Parcel _____ ; Map _____ Parcel _____



Signature of Owner

See next page for Planning Board Action

FOR PLANNING BOARD USE ONLY

1. Application, twelve (12) prints (three colored), filing fee, twelve (12) copies of draft DIS, and reproducible received _____ (Date)
2. Acknowledgment of receipt by Town Clerk _____ (Date)
3. Reviews made by Town officers or consultants: (comments attached)
Board of Health _____ (Date)
Highway Department _____ (Date)
Fire Department _____ (Date)
Conservation Commission _____ (Date)
Engineering Consultant _____ (Date)
Other _____ (Date)
Other _____ (Date)
4. Planning Board action (see meeting minutes) _____ (Date)
Approved _____ Modified and approved _____ Disapproved _____
5. Reproducible returned to applicant _____ (Date)

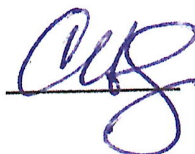
FOR BOARD OF HEALTH USE ONLY

1. Application and one print received _____ (Date)
Form K issued _____ (Date)
2. Board of Health action (see meeting minutes) _____ (Date)
Approved _____ Modified and approved _____ Disapproved _____
3. Action and comments relayed to Planning Board _____ (Date)

Shutesbury Planning Board
Form B Revised 2/27/87

Carver Rd Lot.
Application for Approval of Preliminary Subdivision Plan

Cowls Initials:



*Additional Deed Reference

The following parcels are grouped by the assessor and labeled as Map ZD Lot 37 for tax purposes. W.D. Cowsls still recognizes the original parcels below:

| Map | Lot | Book | Page |
|-----|-----|------|------|
| F | 27 | 2050 | 106 |
| ZD | 37 | 1032 | 390 |
| ZD | 37 | 1050 | 106 |
| ZD | 37 | 1131 | 70 |
| ZD | 37 | 1228 | 12 |



CUSTOMER'S RECEIPT

SEE BACK OF THIS RECEIPT FOR IMPORTANT CLAIM INFORMATION

NOT NEGOTIABLE

| | |
|---------|--|
| Pay to | Town of Shutesbury |
| Address | 1 Cooleyville Rd Shutesbury, MA 01072 |

KEEP THIS RECEIPT FOR YOUR RECORDS

| | | | | |
|---------------|------------------|-------------|----------|-------|
| Serial Number | Year, Month, Day | Post Office | Amount | Clerk |
| 26551938374 | 2020-06-24 | 010022 | \$200.00 | 05 |



POSTAL MONEY ORDER

| | | | |
|---------------|------------------|-------------|--|
| Serial Number | Year, Month, Day | Post Office | U.S. Dollars and Cents |
| 26551938374 | 2020-06-24 | 010022 | \$200.00 Two Hundred Dollars and 00/100 ***** |

| | | | |
|---------|--|---------|--|
| Pay to | Town of Shutesbury | From | W.D. Cows, Inc. |
| Address | 1 Cooleyville Rd Shutesbury, MA 01072 | Address | PO Box 9677 North Amherst, MA 01059 |
| Memo | Roaring Brook Estates - Subdivision | | |

© 2000 United States Postal Service. All Rights Reserved.

SEE REVERSE WARNING • NEGOTIABLE ONLY IN THE U.S. AND POSSESSIONS

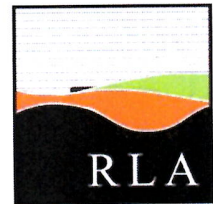
⑆00000800 2⑆

26551938374⑆

SECTION 4
WAIVER REQUEST

RLA LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085
p 413.568.0985 · f 413.568.0986 · www.rland.com



June 26, 2020

Mr. Deacon Bonnar, Chairman
Town of Shutesbury Planning Board
1 Cooleyville Rd
Shutesbury, MA 01072

RE: Waiver Request - Preliminary Subdivision
Roaring Brook Subdivision
Carver Road West, Shutesbury, MA
Parcel ID: ZD-37
RLA # 200515

Dear Mr. Bonnar & Board Members,

Below, please find the waivers that are being requested for the proposed preliminary subdivision allowed under Section VII.B of the Town of Shutesbury Regulations Governing the Subdivision of Land.

1. A waiver of Section III.B.1. – A reproducible original is required at the time of submission of the Preliminary Plan application.

RLA Response: We are requesting a waiver of the reproducible original at the time of submission.

2. A waiver of Section III.C. Contents - The preliminary plans may be drawn on tracing paper with pencil, at a scale of one inch equal forty feet (1" = 40') for subdivisions less than fifty (50) lots,...

RLA Response: The plans are prepared with a scale of 1" = 200' for ease of reviewing.

3. A waiver of Section III.C.9 - The Preliminary Plan shall show other major site features, such as swamps, bodies of water, wetlands, flood plains, stone walls, fences, buildings, trees of over sixteen (16) inch diameter, and rock outcroppings;

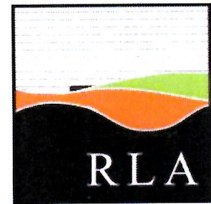
RLA Response: Once it is confirmed that the roadway and home site locations will not change drastically, R. Levesque Associates will provide a detailed definitive plan that will show stone walls, fences, buildings, trees of over sixteen (16) inch diameter, and rock outcroppings.

4. A waiver of Section III.C.10 - The Preliminary Plan shall show Index plan at a scale of one-inch equals two hundred feet (1" = 200') whenever multiple sheets are used;

RLA Response: The Index Plan is at a scale of 1" = 1,000' for ease of reviewing.

R LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085
p 413.568.0985 · f 413.568.0986 · www.rland.com



If any additional information is required, please do not hesitate to contact our office at (413) 568-0985.

Sincerely,
R LEVESQUE ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Sofia A. Bitzas' with a stylized flourish at the end.

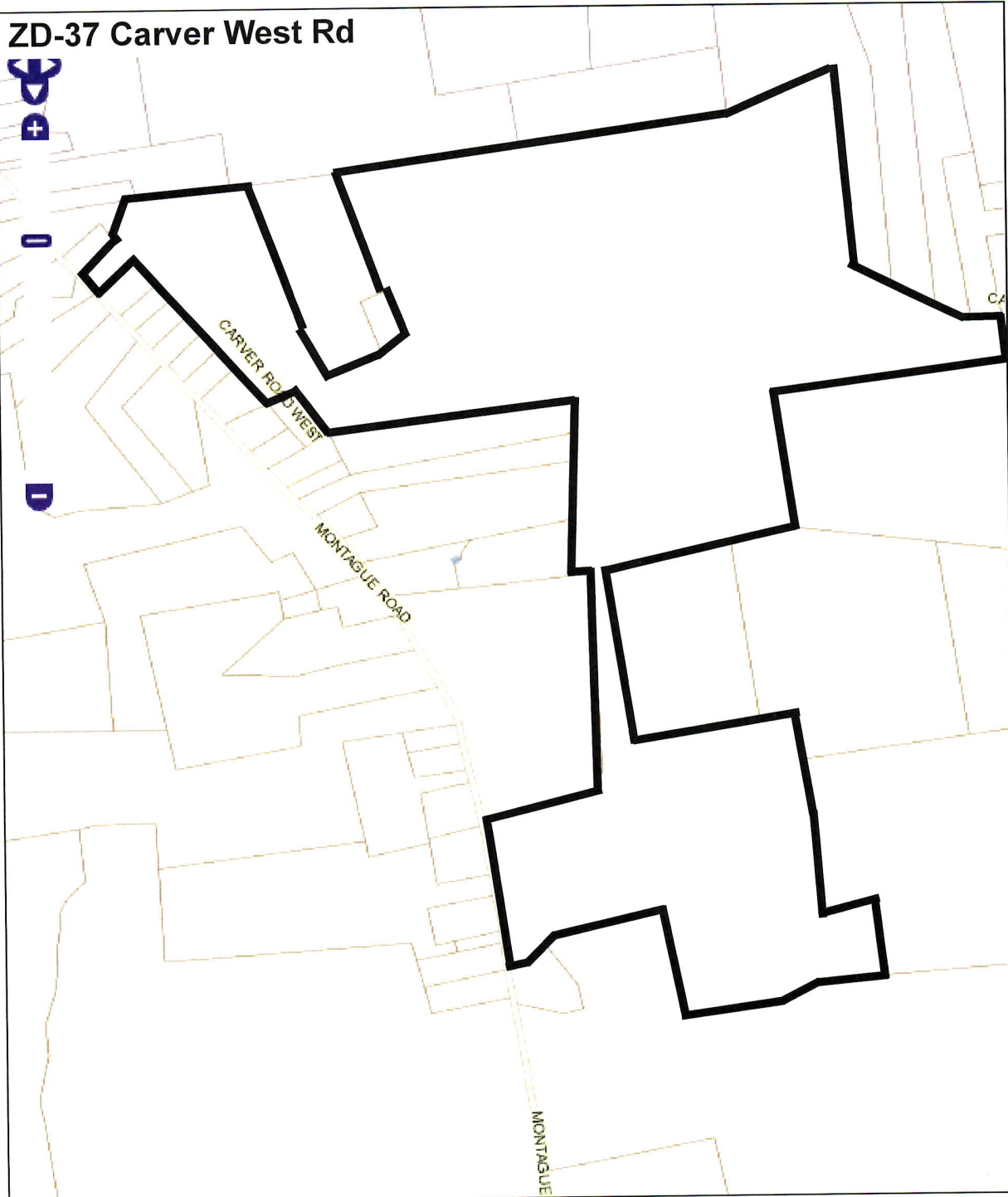
Sofia A. Bitzas, JD
Director of Operations

cc: WD Cows, INC.

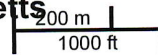
SECTION 5

LOCUS MAP AND
NRCS SOIL SURVEY MAP

ZD-37 Carver West Rd



Town of Shutesbury, Massachusetts

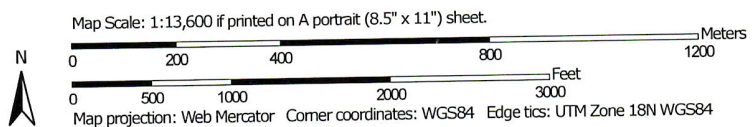
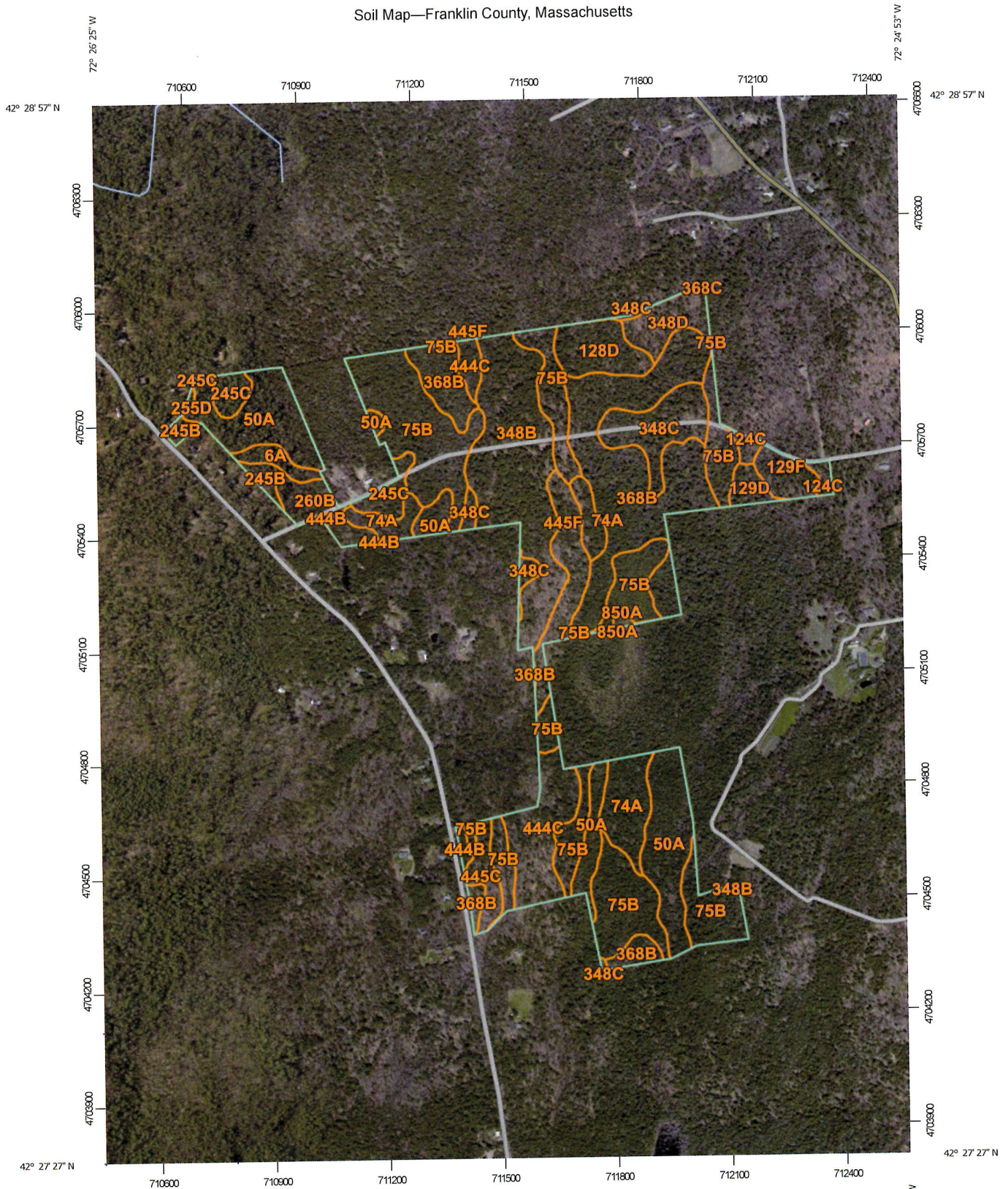


MainStreetMaps
MainStreetGIS, LLC
www.mainstreetgis.com

Printed 6/24/2020 from <http://www.mainstreetmaps.com/ma/shutesbury/public.asp>





































This map is for informational purposes only. It is not for appraisal of, description of, or conveyance of land. The Town of Shutesbury, Massachusetts and MainStreetGIS, LLC assume no legal responsibility for the information contained herein.

Soil Map—Franklin County, Massachusetts



Soil Map—Franklin County, Massachusetts

MAP LEGEND

- | | | |
|--|--|---|
| Area of Interest (AOI) | |  Spoil Area |
|  Area of Interest (AOI) | |  Stony Spot |
| Soils | |  Very Stony Spot |
|  Soil Map Unit Polygons | |  Wet Spot |
|  Soil Map Unit Lines | |  Other |
|  Soil Map Unit Points | |  Special Line Features |
| Special Point Features | | Water Features |
|  Blowout | |  Streams and Canals |
|  Borrow Pit | | Transportation |
|  Clay Spot | |  Rails |
|  Closed Depression | |  Interstate Highways |
|  Gravel Pit | |  US Routes |
|  Gravelly Spot | |  Major Roads |
|  Landfill | |  Local Roads |
|  Lava Flow | | Background |
|  Marsh or swamp | |  Aerial Photography |
|  Mine or Quarry | | |
|  Miscellaneous Water | | |
|  Perennial Water | | |
|  Rock Outcrop | | |
|  Saline Spot | | |
|  Sandy Spot | | |
|  Severely Eroded Spot | | |
|  Sinkhole | | |
|  Slide or Slip | | |
|  Sodic Spot | | |

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Franklin County, Massachusetts
 Survey Area Data: Version 14, Sep 12, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 9, 2011—May 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------|---|--------------|----------------|
| 6A | Scarboro mucky sandy loam, 0 to 2 percent slopes | 2.4 | 0.9% |
| 50A | Wonsqueak muck, 0 to 2 percent slopes | 30.6 | 12.2% |
| 74A | Peacham mucky peat, 0 to 8 percent slopes, very stony | 12.9 | 5.1% |
| 75B | Pillsbury fine sandy loam, 0 to 8 percent slopes, very stony | 60.0 | 23.8% |
| 124C | Woodstock-Millsite-Rock outcrop complex, 8 to 15 percent slopes | 2.0 | 0.8% |
| 128D | Millsite-Chichester complex, 15 to 25 percent slopes, rocky | 7.3 | 2.9% |
| 129D | Millsite-Woodstock complex, 15 to 25 percent slopes, very rocky | 2.3 | 0.9% |
| 129F | Millsite-Woodstock complex, 25 to 60 percent slopes, very rocky | 4.0 | 1.6% |
| 245B | Hinckley loamy sand, 3 to 8 percent slopes | 2.3 | 0.9% |
| 245C | Hinckley loamy sand, 8 to 15 percent slopes | 5.3 | 2.1% |
| 255D | Windsor loamy sand, 15 to 25 percent slopes | 0.2 | 0.1% |
| 260B | Sudbury sandy loam, 3 to 8 percent slopes | 5.4 | 2.1% |
| 348B | Henniker sandy loam, 3 to 8 percent slopes | 29.5 | 11.7% |
| 348C | Henniker sandy loam, 8 to 15 percent slopes | 11.5 | 4.6% |
| 348D | Henniker sandy loam, 15 to 25 percent slopes | 5.9 | 2.3% |
| 368B | Metacomet fine sandy loam, 3 to 8 percent slopes | 43.3 | 17.2% |
| 368C | Metacomet fine sandy loam, 8 to 15 percent slopes | 0.1 | 0.0% |
| 444B | Chichester fine sandy loam, 3 to 8 percent slopes | 0.9 | 0.4% |
| 444C | Chichester fine sandy loam, 8 to 15 percent slopes | 13.4 | 5.3% |
| 445C | Chichester fine sandy loam, 8 to 15 percent slopes, very stony | 3.7 | 1.5% |

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 445F | Chichester fine sandy loam, 25 to 45 percent slopes, very stony | 8.4 | 3.4% |
| 850A | Bucksport muck, 0 to 2 percent slopes | 0.5 | 0.2% |
| Totals for Area of Interest | | 251.9 | 100.0% |

SECTION 6
DEED

SEE
BOOK 2068
PAGE 342

SEE
BOOK 2165
PAGE 330

SEE
BOOK 2327
PAGE 257

I, Clark B. Wetherbee,
of Chicago, Cook County, State of Illinois ~~County, Massachusetts~~
~~being conveyed~~ for consideration paid, grant to W. D. Cowle, Inc., a corporation duly
established by law and having an usual place of business in Amherst, Hampshire
County, Massachusetts,

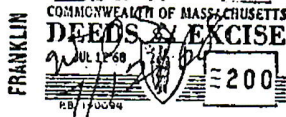
~~xxx~~ with warranty covenants
the land in Shutesbury, Franklin County, Massachusetts, described as follows:-

[Description and encumbrances, if any]

Tract One: Being the same premises conveyed by George A. Paul to Amos B.
Howard, dated October 5, 1899 and recorded in the Franklin County Registry of Deeds,
Book 473, Page 271 and known as the Paul Lot.

Tract Two: Being the same premises described in deed from Joab Stowell
to said Amos B. Howard, dated April 30, 1896 and recorded in said Registry of Deeds,
Book 463, Page 201, and known as the Stowell Lot.

Being the same premises conveyed by Ethan V. Howard to me by deed dated
January 21, 1932 and recorded in said Registry of Deeds, Book 789, Page 127.



~~husband~~ ~~xxx~~
~~xxx~~

~~xxxxxx said grantee, the heirs of xxxxx by xxxxx, xxxxx the owners thereof~~
~~xxxxxx and xxxxx~~

Witness my hand and seal this 1st day of July, 1968.

Clark B. Wetherbee

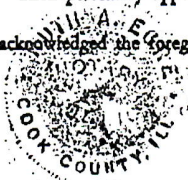
STATE OF ILLINOIS

~~The Commonwealth of Massachusetts~~

Cook, ss. July 1, 1968

Then personally appeared the above named Clark B. Wetherbee

and acknowledged the foregoing instrument to be his free act and deed, before me,



Ruth A. Egge
Notary Public / Justice of the Peace

My Commission expires Jan. 23, 1970

(*Individual — Joint Tenants — Tenants in Common — Tenants by the Entirety.)

Franklin ss. Rec'd for record 12:15 Min P.M. July 12, 1968

SECTION 7

DEVELOPMENT IMPACT STATEMENT

Development Impact Statement - Draft

Roaring Brook Subdivision
Carver Road West
Parcel ID: ZD-37
Shutesbury, MA 01072
RLA Project # 200515

INTRODUCTION & SITE DESCRIPTION

The subject property is located east of Montague Road in Shutesbury, Massachusetts (hereinafter referred to as the "subject property") and is designated as Parcel ID: ZD - 37 of the Town of Shutesbury Assessors Database. Cumulatively, the property is approximately 263 acres and is shown on the accompanying preliminary subdivision concept plan prepared by R Levesque Associates, Inc., dated June 24, 2020. The parcel depicted on the plan is owned by W. D. Cowls, Inc.

For ease of reference, the section from the Development Impact Statement form are stated below followed by RLA's response in bold text:

1. Project Description

a. Number of Units:

Total **2** *Low Income* **0** *Single Family* **2**
Two Family **0** *Row House* **0** *Apartment* **0**
Commercial **0** *Other* **0**

RLA Response: There will be two (2) Single family homes.

b. Type of Ownership (list number of units for each):

Condominium **0** *Rental* **0** *Private* **2** *Lease* **0**

RLA Response: The single-family homes will be privately owned.

c. Number of Bedrooms:

Row Houses **0** *Condominium* **0** *Apartments* **0**

RLA Response: The single-family homes will have 3-4 bedrooms, to be determined by the new owners.

d. Approximate Price per Lot/ Unit:

Private \$135,000/lot Condominium 0 Rental 0 Lease 0

RLA Response: The lots will be priced based on the market value after approval of a Definitive Subdivision plan by the Planning Board.

II. Circulation Systems

a. Street Design - Explain reasons for location of streets, stubs, and intersections.

RLA Response: The roadway intersection was created to minimize the impact to the resource areas, while providing safe, efficient means of egress and do not pose a hazard for sightlines or traffic congestion.

b. Street Classification and Traffic - Classify the streets and stubs within the development according to the street classification set forth in Section II.A.9 of these Regulations. Project the number of motor vehicles to enter or depart the site per average day and peak hour. Also state the number of motor vehicles to actually pass by streets adjacent to the proposed subdivision per average day or peak hour data shall be sufficient to enable to Board to evaluate (1) existing traffic on streets adjacent to the proposed project, (2) traffic generated or resulting from the proposed project, and (3) the impact of such additional traffic on all ways within and adjacent to the proposed project. Attach to this DIS the results of all studies conducted to develop these data, plus a description of the study methodology, and the name, address and telephone number of the person(s) responsible for carrying out the study.

RLA Response: The proposed roadway will be a cul-de-sac from the easterly side of Montague Road. The subdivision will consist of a public dead end street/cul-de-sac which provides access to two (2) single-family homes. There will be approximately 22 average daily trips (ADT). A full traffic analysis will be conducted upon approval of the preliminary subdivision and submitted with the subsequent Definitive Subdivision application.

c. Parking and Bus Stops - Discuss the number, opportunities for multiple use, and screening of parking spaces, with respect to bus stops (if any), explain the location, shelter design, and orientation to path systems.

RLA Response: There will be no on-street parking, with all residential parking within the proposed driveway for each home. The proposed development is approximately 2.3 miles from the Shutesbury Town Center.

d. Pedestrian and Bicycle Circulation - Discuss the orientation of the pedestrian and bicycle system to activity centers, location of bike racks (if any) and any bike path plans.

RLA Response: There are no pedestrian or bicycle systems within walking distance of the development. The applicant is not proposing sidewalks at this time.

III. Support Systems

a. Water Distribution - Discuss the types of wells proposed for the project, means for providing fire supply, and any special problems which might arise.

RLA Response: The subdivision will be serviced by private wells typical for a single-family home.

b. Sewage Disposal - Discuss the type of system, level of treatment, suitability of soils and results of percolation tests, deep observation holes and test borings. Identify groundwater flow fields in the area of the proposed subdivision, establish the capability of the soil to renovate sewage effluent, and determine the dilution effects on the effluent through recharge (mainly precipitation) and dispersion. A computer simulation shall be provided.

RLA Response: The future single-family homes within this subdivision will be serviced by individual septic systems. The results of percolation tests and deep observation holes will be provided at a future date, to be determined.

c. Storm Drainage - Discuss the storm drainage system including the projected flow from a 50-year storm, name of the receptor stream, and any flow constrictions between the site and the receptor stream.

RLA Response: Due to size of the proposed subdivision, stormwater impact will be comfortably mitigated within the project area. A complete Stormwater Drainage Report, conformant to Mass DEP and Shutesbury Stormwater requirements. will be provided as part of the Definitive Subdivision Application stage.

d. Refuse Disposal - Discuss the location and type of facilities, hazardous materials requiring special precautions, and screening.

RLA Response: The proposed single-family residences are anticipated to participate in typical refuse pickup services. There will be no hazardous materials, other than typical household items, stored on site.

e. Lighting - Discuss the location and size of lights, and methods used to screen adjoining properties from glare.

RLA Response: The applicant will provide street lighting as required by the regulations.

f. Fire Protection - Discuss the type and capacity of fuel storage facilities, location of storage areas for hazardous substances, special requirements, and distance to fire station.

RLA Response: There are no fire hydrants proposed along the subdivision roadway . The roadway has been designed to The Town of Shutesbury Subdivision Regulations to allow for proper emergency vehicle access. No fuel storage, non-hazard, single family resident products only.

g. Recreation - Indicate the distance to, and type of, any public facilities. Discuss the type of private recreation facilities to be provided with the development.

RLA Response: Public facilities are not present within an immediate vicinity to the subdivision. No private recreation facilities are proposed within the development.

h. Schools - Project the student population of the project for the nursery, elementary, Junior High School and Senior High School levels and indicate the distance, capacity, and present enrollment of the nearest elementary and secondary schools. Describe the basis or methodology for all projections of student population.

RLA Response: There would be a maximum of two (2) future households that could potentially have children enrolled in the town's school system. This is anticipated to have minimal impact on the existing school system. The nearest elementary school is Shutesbury Elementary, which is located approximately 1.6 miles away. The Amherst Regional Middle School and Amherst-Pelham Regional High School are located approximately 10 miles from the from the proposed subdivision.

1. NATURAL CONDITIONS - Describe the following elements of natural conditions, identifying short-term (those occurring primarily during project construction) and long-term (those remaining after the completion of project construction) impacts on each:

a. Topography - Indicate datum, source, date, slopes greater than 15%; provide contours at two-foot intervals, with graphic drainage analysis showing annual high-water mark; show location of existing structures, including fences and walls.

RLA Response: Please refer to the attached preliminary subdivision plan for greater detail regarding site contours which are shown on the North American Vertical Datum of 1988 (NAVD88).

b. Soils - Indicate soils and land types, utilizing all government soil surveys covering the project area, including but not limited to prime agricultural land, depth to bedrock, and

extent of land which has been filled.

RLA Response: Please refer to the USDA/NRCS Soil Survey which depicts the location of soil types on the property.

c. Mineral resources - Indicate extent and economic importance of mineral resources, extent and means of proposed extraction, and rehabilitation measures.

RLA Response: Mineral resource extraction is not a significant component of this project.

d. Surface geology

RLA Response: No noteworthy rock outcrops are located on the property. At this time, test pits have not yet been conducted on site. OLIVER GIS data layers did not reveal surface bedrock being an issue for this property.

e. Depth to water table (groundwater level) - Show location and provide test results of soil percolation or other subsurface tests for each lot in a proposed subdivision.

RLA Response: At this time, test pits have not yet been conducted in the area of the proposed roadway and future stormwater structures. Said information will be provided at the definitive subdivision review stage of the project.

f. Aquifer recharge areas

RLA Response: To the best of our knowledge, the property does not lie within any officially mapped aquifer protection or recharge areas. Wetland resource areas will not be disturbed as a result of the construction of this subdivision. The future use of the property will be residential, and a negligible risk to groundwater contamination considering the nature of environmentally responsible homeownership.

g. Wetlands

RLA Response: Wetland resource areas observed on the subject property include Bordering Vegetated Wetlands (BVW), Bank, and Riverfront Area. Wetland resource areas shown on the attached filing plan are sourced from MassGIS data. A complete wetland delineation will be completed for the definitive subdivision application stage.

h. Watercourses

RLA Response: The construction of the subdivision roadway, associated site grading, and utility installation will occur only within the permitted limit of work area to minimize adjacent habitat and wetland resource area disturbance. Proposed work will not disturb wetland resource areas.

i. One hundred year flood plains

RLA Response: The subject property is not located within a special flood zone area according to Flood Insurance Rate Map Number 2501280015A, dated June 18, 1980.

j. Wildlife - Describe species present and estimate numbers of each; identify endangered species.

RLA Response: The property is not located within Natural Heritage and Endangered Species Program mapped habitat. Additionally, wetland areas, which provide important habitat for biodiversity, will remain undisturbed.

k. Vegetative cover - Provide an analysis of vegetative cover, including identification of general cover type (including but not limited to wooded, open areas, cropland, wetlands, etc.); show location of all tree groupings and identify such groupings by major or dominant species; show location of and describe wildlife habitats; identify endangered species; identify unusual habitats, meaning those not commonly found in the Connecticut River Valley in Franklin County, Massachusetts.

RLA Response: Review of aerial imagery shows that the majority of the property consists of mature forest with wetland resource areas.

V. DESIGN FACTORS - Describe briefly the following features. Photographs are helpful.

- a. Present visual quality of the area*
- b. Location of significant viewpoints*
- c. Historic structures*
- d. Architecturally significant structures*
- e. Type of architecture for development*

RLA Response: The subdivision has been designed to minimize impacts to wetland resource areas while providing a feasible project. Should work associated with the development of the proposed lots be located within jurisdiction to wetland resource areas, then conservation commission approval shall be obtained prior to commencement of work. No significant views or historical assets will be lost as a result of this project. The style of the proposed homes is not known at this time.

VI. ENVIRONMENTAL IMPACT This section shall deal separately with both short term and long term impacts. A narrative statement shall be submitted, documenting all mitigative measures taken to:

a. Prevent surface water contamination, changes in surface water level, or both.

RLA Response: During construction, best management practices such as silt fences, straw logs, and vehicular anti-tracking pad will be installed to minimized soil migration outside of the permitted limit of work. An EPA SWPPP and NPDES Notice of Intent (NOI) Construction General Permit (CGP) will be prepared prior to start of earth disturbances exceeding 1 acre.

b. Prevent ground water contamination, changes in ground water level, or both.

RLA Response: During construction, best management practices consistent with the SWPPP will be adhered to. The septic system to service the proposed homes will be designed and constructed per Massachusetts Title V regulations.

NOTE: As part of items a. and b. above, estimate phosphate and nitrate loading on ground water and surface water from septic tanks, lawn fertilizer, household gardens, landscaping, and other activities within the development.

c. Maximize ground water recharge

RLA Response: As part of the proposed site improvements, a stormwater management system will be designed utilizing the Massachusetts Department of Environmental Protection Stormwater Management Handbook.

d. Prevent air pollution

RLA Response: During construction, best management practices will be used to prevent air pollution.

e. Prevent erosion, sedimentation, or other instability in soils or vegetative cover.

RLA Response: During construction, best management practices such as silt fences, straw logs, erosion control blanketing, seeding for stabilization, and vehicular anti-tracking pad will be installed to minimize soil migration outside of the permitted limit of work. An EPA SWPPP and NPDES Notice of Intent (NOI) Construction General Permit (CGP) will be prepared prior to start of earth disturbance exceeding 1 acre.

f. Maintain slope stability

RLA Response: See prior response.

g. Reduce noise levels

RLA Response: During construction, best management practices will be used to reduce noise levels

h. Preserve significant views

RLA Response: The proposed project area is not expected to have an impact on any significant views. The project area is within an existing rural residential area.

i. Design project to conserve energy

RLA Response: The construction of the roadway, associated site grading and utility installation will be completed using mainly combustion engine machinery. The future proposed uses of the lots within the subdivision are single-family homes. After construction, measures taken to conserve energy are at the discretion of the homeowners.

j. Preserve wildlife habitats, botanical features, scenic or historic features

RLA Response: The construction of the subdivision roadway, associated site grading, and utility installation will occur only within the permitted limit of work area to minimize adjacent habitat and wetland resource area disturbance.

k. Ensure compatibility with surrounding land uses

RLA Response: The proposed use as a residential subdivision is consistent with the surrounding single-family home neighborhoods.

l. Protect wetlands and floodplains and ensure compliance with the Wetlands Protection Act and any local wetlands bylaw.

RLA Response: The construction of the subdivision roadway, associated site grading, and utility installation will occur only within the permitted limit of work area to minimize adjacent habitat and wetland resource area disturbance. Should proposed work be located within jurisdiction of wetland resource areas, a Notice of Intent or Request for Determination of Applicability must be reviewed by the Town Conservation Commission prior to work commencing.

APPENDIX I

**"ROARING BROOK SUBDIVISION"
PRELIMINARY SUBDIVISION PLAN,
PREPARED FOR WD COWLS, INC.,
BY R LEVESQUE ASSOCIATES, INC.
DATED JUNE 24, 2020**

m. Promote lot layout and house siting for potential solar energy capabilities

RLA Response: The lot layout, house siting and orientation is dependent upon topography, wetland resource areas, and the future location of a septic system. Where feasible, siting for solar energy capabilities is encouraged.

n. Minimize or avoid all short-term and long-term impacts identified in Section IV. of the DIS ("Natural Conditions") and not otherwise covered in this section.

RLA Response: During construction, best management practices will be used to minimize or avoid all short-term and long-term impacts identified in Section IV.

VII. PLANS - Describe how the project relates to the following:

a. Village concept and any village plans

RLA Response: RLA is not aware of a village concept or plan for Shutesbury.

b. Any conservation or Town master plan

RLA Response: The four identified focuses of the Shutesbury Community Vision Report are Community, Finances, Infrastructure, and Land Use/Housing. The proposed development of two single family homes will increase the tax base revenue for the town while still maintaining an open, rural atmosphere while placing a minimal burden on town infrastructure.

c. Any regional plans prepared by county or regional planning agencies

RLA Response: The proposed development of two single family homes will increase the tax base revenue for the town while still maintaining an open, rural atmosphere while placing a minimal burden on town infrastructure.

VIII. PHASING

If the development of the site will take place over more than one year, supply a schedule showing how the development will be phased. A flow chart is helpful. This timetable shall include the following elements:

- a. Stripping or clearing of site, or both*
- b. Rough grading and construction*

- c. Construction of grade stabilization and sedimentation control structures*
- d. Final grading and vegetative establishment*
- e. Landscaping*
- f. The construction of any public improvements shall be specified explaining how these improvements are to be integrated with the development.*
- g. The number of housing units and the square footage of nonresidential uses to be constructed each year and their estimated value shall be specified.*

RLA Response: The applicant anticipates to complete construction of the development with in one to two years of breaking ground after approval of a Definitive Subdivision plan by the Planning Board. The construction sequence shall begin with the installation of erosion control measures along the permitted limit of work and shall proceed generally in the same fashion as the elements noted above. At this time, the size and estimated value of the propose homes is unknown.