



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

Shoreland Permit Application
 for a Shoreland Protection Permit under
 Chapter 49A of Title 10, § 1441 et seq.



For Shoreland Permitting Use Only
 Application Number: **2144-SP**

Public Notice: At the same time this application is filed with Shoreland Permitting, a copy of this application must be provided to the municipal clerk for posting in the municipality in which the project is located.
 Submission of this application constitutes notice that the person in Section A intends to create impervious surface and/or cleared area within the Protected Shoreland Area, and certifies that the project will comply with Chapter 49A of Title 10, § 1441 et seq. All information required on this form must be provided, and the requisite fees (Section G) must be submitted made payable to the State of Vermont, to be deemed complete. Refer to The [Vermont Shoreland Protection Act - A Handbook for Shoreland Development](#) and related instructions for guidance in completing this application.

A. Parcel Information

Landowner's Name: *Michael and Nancy Janson*

2a. Physical Address (911 Address): *724 Maguam Shore Rd., Swanton, VT 05488*

2b. Town - County: *St. Albans Town - Franklin County* 2c. Zip: *05478*

3. SPAN (The School Parcel Account Number is required for your application to be deemed complete. It can be obtained from your property tax bill. If you cannot locate your property tax bill, please obtain this information from your Town Clerk) : *552-174-11385*

4. Phone: *(802) 524-6881* 5. Email: *mjanson10@hotmail.com*

6. Name of Lake/Pond: *Lake Champlain* 7. Total Shore Frontage *100* (Feet)

8. Was the parcel of land created before July 1, 2014? Yes No

9. Are there wetlands associated with this parcel? Yes No
 Contact the Wetlands Program (802) 828-1535 or <http://dec.vermont.gov/watershed/wetlands>

10. Have you ever applied for a permit with the Department of Environmental Conservation associated with this parcel?
 Yes No

11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): *20,000* (square feet)
 See the [Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix C, Determining Lakeside Zone & PSA](#)

12. What is the surface area of existing impervious surface on your parcel within the PSA: *3817* (square feet)
 See the [Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface](#)

13. What is the surface area of existing cleared are on your parcel within the PSA: *19,884* (square feet)
 See the [Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing](#)

B. Applicant Contact Information

1. Name: *same as above!*

2a. Mailing Address:

2b. Town: 2c. State: 2d. Zip:

3. Phone: 4. Email:

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

1. Name:

2a. Mailing Address:

2b. Town: 2c. State: 2d. Zip:

3. Phone: 4. Email:

D. Project Description

1. Describe the proposed project. For this application to be considered administratively complete you must attach site plans that denote existing and proposed cleared areas and impervious surface and their distances from mean water level, no fewer than three photos of the project area, and dimensions and associated surface areas of cleared areas and impervious surfaces.

see attached "Project Description".

2. For developed parcels, how far is the existing habitable structure from Mean Water Level 90 (feet), and how far will new cleared area or impervious surface be from MWL 19-22 (feet)?

OR

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

See the [Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix A – Estimating Mean Water Level](#)

3. Can all new cleared area or impervious surface be set back at least 100 feet from MWL? Yes No

If no, explain why below (attach support information as needed):

There will be no new cleared area. The new impervious surface area is the top view of the proposed concrete wall and footing. The wall is located to prevent further erosion and deterioration due to high water wave and ice action. (see project description for a further understanding.)

4a. What is the slope of the project site area: 19.3 %

See The [Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix B, Determining Slope](#)

see slope view attached!

4b. Is the slope of the project area less than 20%?

Yes No If yes, skip 4c.

4c. If no above (4b), describe the measures taken to ensure the slope is stable, resulting in minimal erosion and impacts to water quality (attach support information as needed):

N/A

5a. What is the surface area of new impervious surface associated with this project: 86 (Square Feet)

See the [Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface](#).

5b. What is the total resulting impervious surface after completion of the project and prior to implementation of best management practices: 3903 (Square Feet)

For D5b, add A12 to D5a

5c. Is the total in 5b. 20% or less of the parcel area within the PSA? Yes (if yes, skip 5d.) No
If 5a is 0, check the n/a box, otherwise divide D5b by A11 and multiply by 100 for percentage. Total percentage = 19.5 % N/A

5d. If no above (5c), describe the best management practices used to manage, treat, and control erosion from stormwater from the portion of impervious surface that exceeds 20% (attach support information as needed):

| | |
|--|--|
| <p>6a. What is the surface area of new cleared area associated with this project: <u>0</u> (Square Feet) See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing.</p> | <p>6b. What is the total resulting cleared area after completion of the project and prior to implementation of best management practices: <u>19,884</u> (Square Feet) For D6b, add A13 to D6a</p> |
|--|--|

6c. Is the total in 6b. 40% or less of the parcel area within the PSA? Yes (if yes, skip 6d.) No N/A
 If 6a is 0, check the n/a box, otherwise divide D6b by A11 and multiply by 100 for percentage. Total percentage = _____ %

6d. If no above (6c), establishing vegetative cover (revegetation) is the only applicable best management practice. Please describe a revegetation plan that will be equal to or greater in surface area than the proposed new cleared area as identified in 6a. Identify the location on the parcel where the revegetation will occur and how far from mean water level it will be (attach support information as needed).

E. Landowner Certification

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

Applicant/Landowner Signature: Michael Janson Nancy Janson Date: 07/11/2016

F. Application Preparer Certification (if applicable)

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

Application Preparer Signature: _____ Date: _____

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

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

H. Permit Application Fees

| | | |
|--|--|---------------|
| Administrative Fee: \$125.00 | | 125.00 |
| Impervious Area Fee: \$0.50 per square ft. | Enter new impervious area as entered in item (5a) <u>86</u> x 0.5 | <u>43.00</u> |
| Total Fee due: | | <u>168.00</u> |

Submit this form and application fee, payable to:
 State of Vermont -Vermont Department of Environmental Conservation
 Watershed Management Division -Shoreland Permitting
 1 National Life Drive, Main 2
 Montpelier, VT 05620-3522

Direct all correspondence or questions to Shoreland Permitting at:
ANR.WSMDShoreland@vermont.gov

For additional information visit:
<http://dec.vermont.gov/watershed/lakes-ponds>

Michael and Nancy Janson
724 Maquam Shore Rd
Swanton, VT 05488

Project Description

A section of the natural ledge wall which is approximately 10 feet high and 32 feet long at the lake shore has and is suffering from severe erosion and is now undercutting upper layers of ledge by 3 to 5 feet in places. Ice in the spring and high water with, at times, heavy wave action is severely eroding this area. If this area is not secured, the top layers will eventually collapse and cause more severe erosion at the shoreline and significant lawn area will be lost. This area is also a safety hazard to swimmers and anyone who may be near or under the ledge. It is also a safety hazard to anyone standing or mowing the lawn on top of the undercut areas.

The project consists of the construction of a new poured concrete seawall/retaining wall in this area. It would be approximately 32 feet long and 9 feet high on top of its footing (Please see attached for complete details). At the north end the wall would be secured with pins to the existing ledge that is not undercut, and at the south there would be a right angle wall that would be pinned to the ledge and the north wall of an existing concrete stair-casing. The wall will rise to approximately 109'10" above sea level. The footing base will be from 98'0" to 100'0", varying depending on the natural elevation of the shale bedrock. The top of the footing will be at approximately 101 feet above sea level. There will also be a footing extending up to 6' south from the 5 foot right angle wall to another section of ledge to help secure this area under the stair-casing.

The footing and the wall will have weep holes for drainage and the entire area behind the wall will be back filled with clean stone and will be covered with landscaping fabric for proper drainage and filtration. A layer of topsoil will be put on the landscaping fabric for the planting of grass. The top of the new back filled area will slope slightly towards the wall to promote proper drainage of the lawn area.

The new wall including the footings will add approximately 86 square feet of additional imperious area. There will be no new cleared area created as the area is clear of vegetation.

Michael and Nancy Janson
724 Maquam Shore Rd
Swanton, VT 05488

Seawall Project Additional Notes:

Base of footing ranges from 98'0" to 100'0" above sea level.

Top of footing will be at approximately 101' above sea level.

Top of wall will be at approximately 109'10" above sea level.

Some overhanging ledge will have to be removed in order to safely install concrete forms.

A silt barrier will be installed above the water line to contain loose materials and sediment.

Footing and walls will be reinforced with #5 rebar and #5 mats. Pins will be #5 dowels.

Back fill between new wall and existing ledge will be with stone that will be topped with landscaping fabric.

Topsoil will be placed on landscaping fabric for the planting of grass. The entire back filled area will promote good filtered drainage of surface runoff.

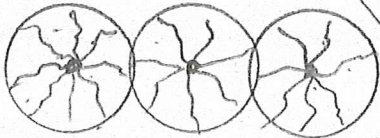
The existing concrete stair casing was installed in 1987. The stair landing is at 105' above sea level.

Top of stair casing walls is at 109'10" above sea level.

MAQUAM SHORE ROAD

LAWN

DRIVEWAY



3 MAPLE TREES

100'

MICHAEL + NANCY
JANSON

GARAGE



BLUE SPRUCE

200'

PLAN
VIEW

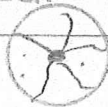
BROOKS

LOT SIZE
100' W X 200' D

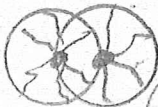
HOUSE

GRUNEWALD

OPEN DECK



MAPLES



MAPLES



PEAR TREE



90'

20'

30'



CEDAR

LILACS

ASH

LILACS

MAPLES

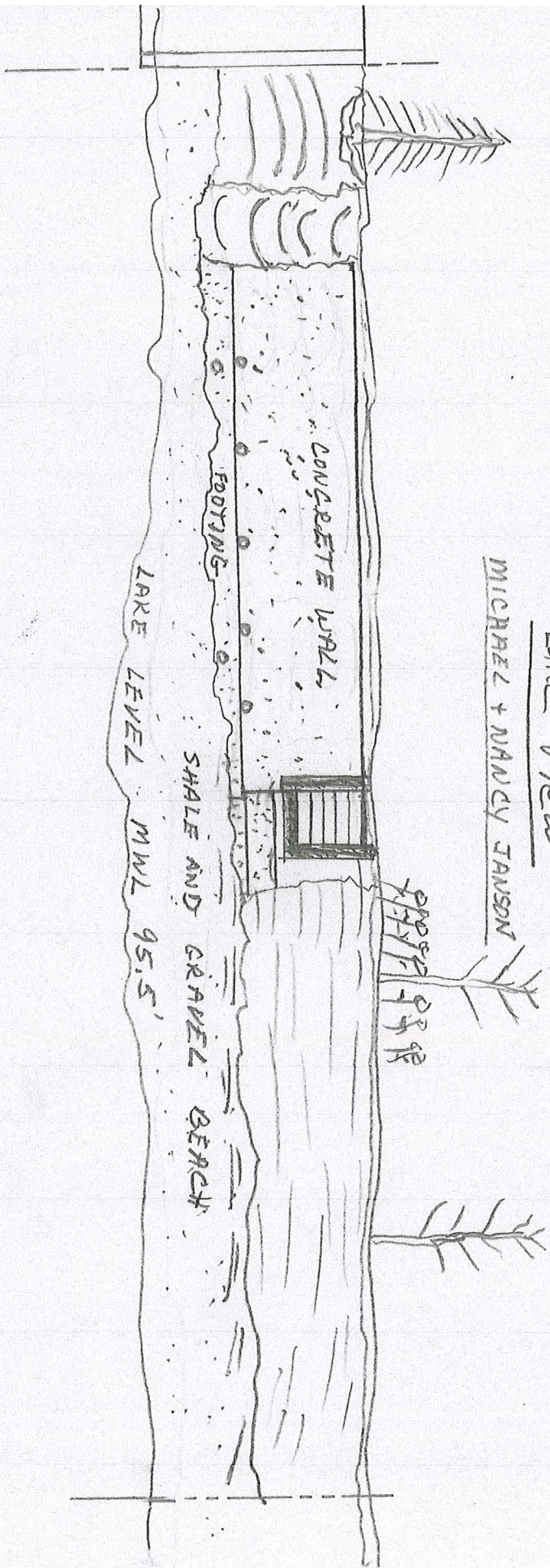


PROPOSED WALL
19'-22'

MWL 95.5 ft

Lake View

MICHAEL + NANDY JANSON



Notes:

FOOTING + WALL LENGTH - APPROX. 32'
(FROM WALL TO STAIRCASE - APPROX. 5')

FOOTING EXTENDS 6' UNDER STAIRCASE TO LEDGE

FOOTING - THICKNESS FROM 1-2', WIDTH FROM 24" TO 36" (VARIES WITH LEDGE)
WALL HEIGHT ON TOP OF FOOTING - 8'10" THICKNESS 12"

2- 5'0" X 8" PILASTERS 8' HIGH

DRILL + PIN TO LEDGE, FOOTING, END WALLS AND EXISTING STAIRCASE - #5 DOWELS
2" weep holes in wall every 6'; 2" weep holes in footing also.

WALL FROM MWL 19-22' VARIES WITH SHORELINE

(see additional notes attached.)

TOP VIEW

(see Lake View for additional notes)

MICHAEL + NANCY JANSON

100'

BROOKS PROPERTY LINE

GRANERWARD PROPERTY LINE

GRASSSED LAWN
AREA

CONCRETE ENCLOSED
STAIRCASE
(4'W X 8' L X 5' DP I.D.)

TREE

TREES

BUSHES

STONE BACKFILL
NEW CONCRETE WALL

LEDGE ON SHORE

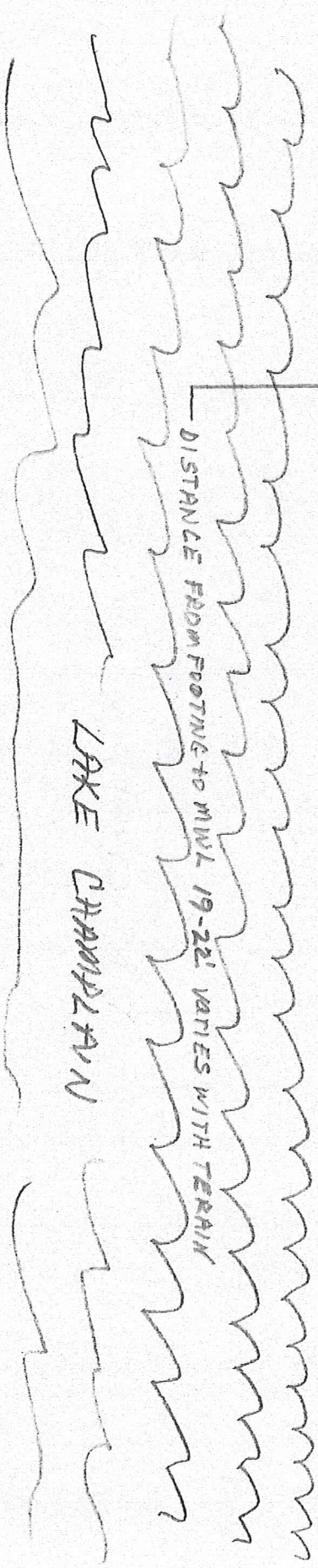
SINGLE LEDGE

(MHW) MEAN WATER LINE 95.5 FT

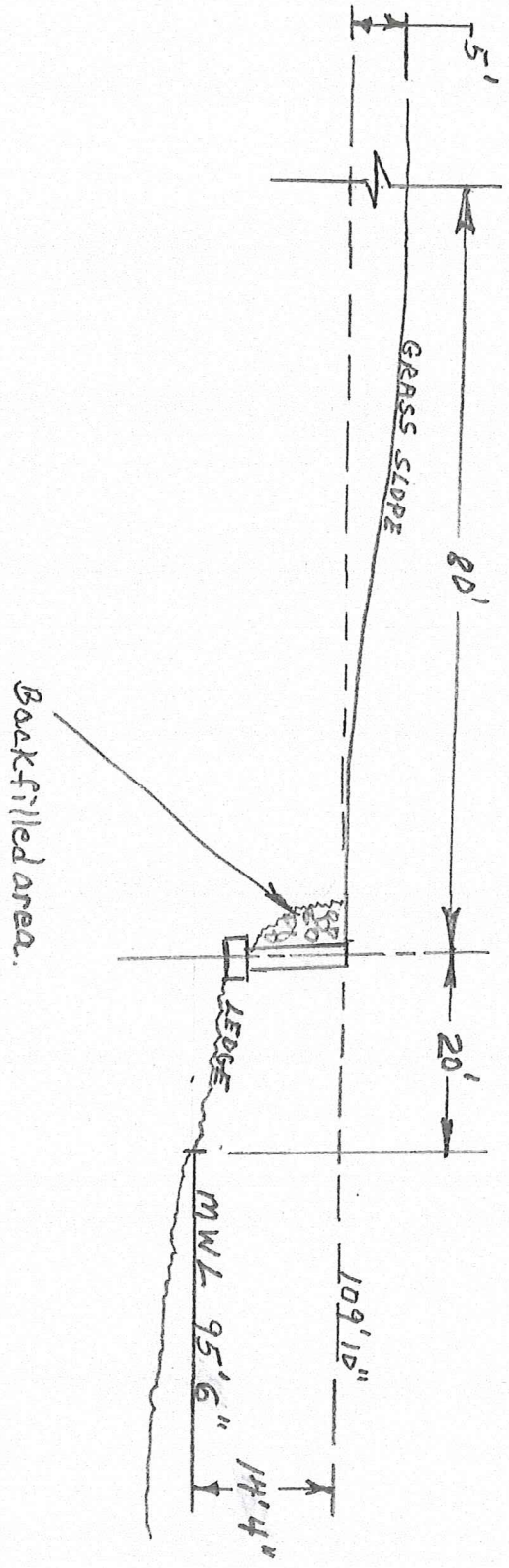
GRAVEL

DISTANCE FROM FOOTING TO MHW 19-22' VARIES WITH TERRAIN

LAKE CHANNEL



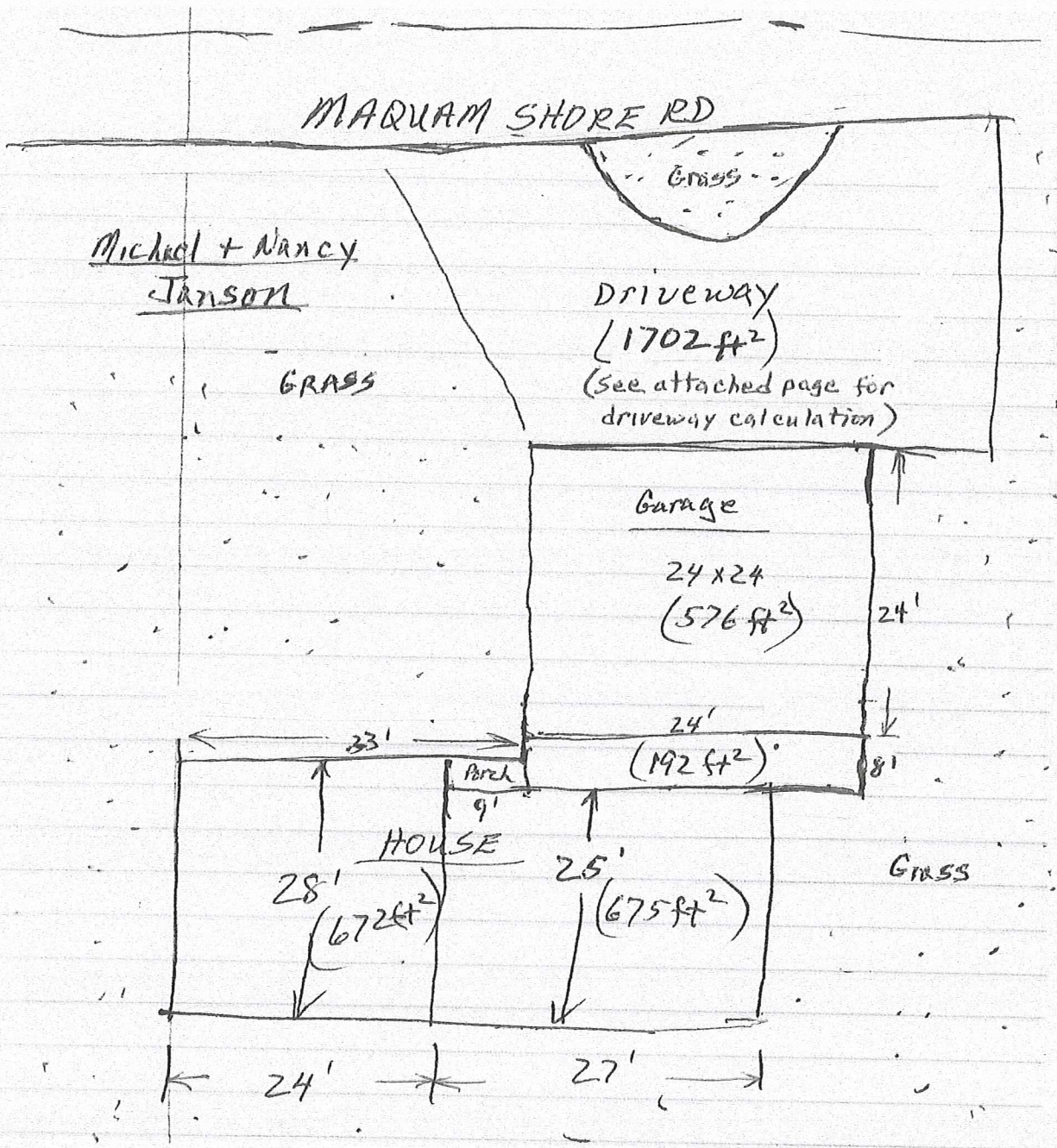
SLOPE VIEW
MICHAEL + NANCY JOHNSON



SLOPE CALCULATIONS

OVER 80' ABOVE WALL: $\frac{5'}{80'} = 6.25\%$

Total over 100': $\frac{19.33}{100} = 19.33\%$



GRASS

Impervious surface Area

House + Garage = 2115 ft²

Driveway = 1702 ft²

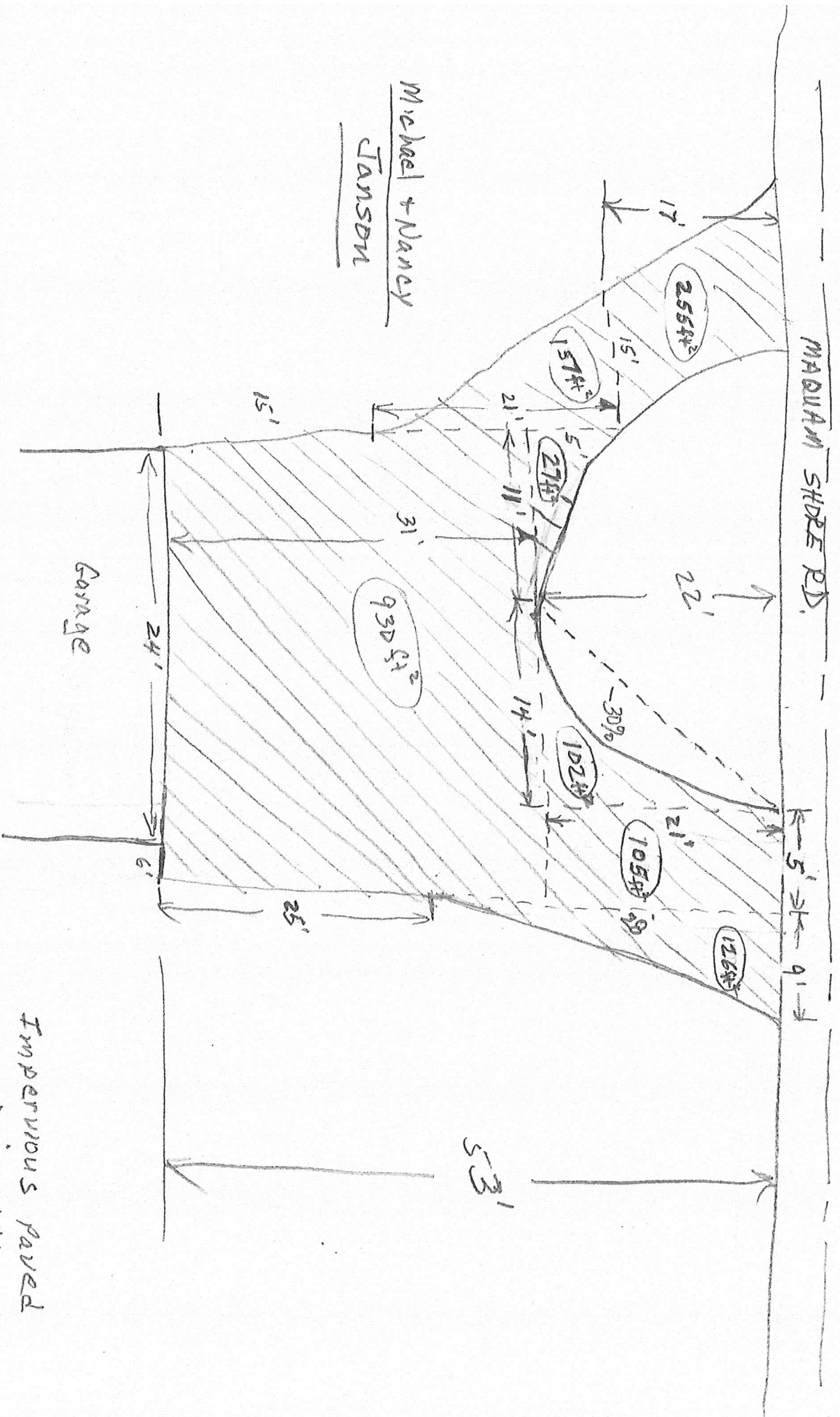
Total Existing Impervious = 3817 ft²

Project New Impervious Area = 86 ft²

Total Impervious Area after Project = 3903 ft²

% Impervious = $\frac{3903}{20,000}$ = 19.5%

MWL



Michael + Nancy
Janson

MADAM SHORE RD.

Garage

Impervious paved
Driveway

Total Approx. 1,702 ft²

NOTE: NOT TO SCALE

Michael + Nancy Janson

Non-Cleared Area Calculations

Maples

| | <u>C</u> | <u>BA</u> |
|-------|----------|-----------|
| Front | 70" | 2.0 |
| | 54" | 1.5 |
| | 56" | 2.0 |
| Farm | 56 | 2.0 |
| Ledge | 72" | 2.0 |
| | 38" | 1.5 |
| Deck | 61" | 2.0 |
| Z | 61" | 2.0 |
| | 89" | 2.5 |
| Z OLD | 83" | 2.5 |
| | 58 | 2.0 |

| | <u>C</u> | <u>BA</u> |
|--------|----------|---------------------------|
| ASH | 40" | 1.5 |
| Cedars | 32" | 1.0 |
| | | <u>2.5 ft²</u> |

LILACS 5'x18' = 90ft²

22 ft²

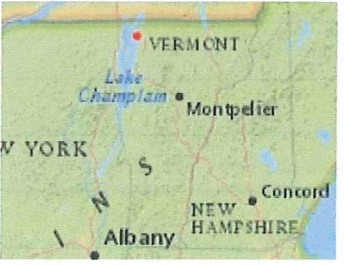
Blue Spruce

| <u>C</u> | <u>BA</u> |
|----------|---------------------|
| 46" | 1.5 ft ² |

Grand Total = 116 ft²

Non-cleared area

PSA - 20,000 ft²
Non-cleared area - 116 ft²
cleared area 19,884 ft²



LEGEND

Town Boundary

NOTES

Map created using ANR GIS mapping technology.

1: 916

June 29, 2016

47.0 0 24.00 47.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources

1" = 76 Ft. 1cm = 9 Meters
THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

Google Maps 724 Maquam Shore Rd



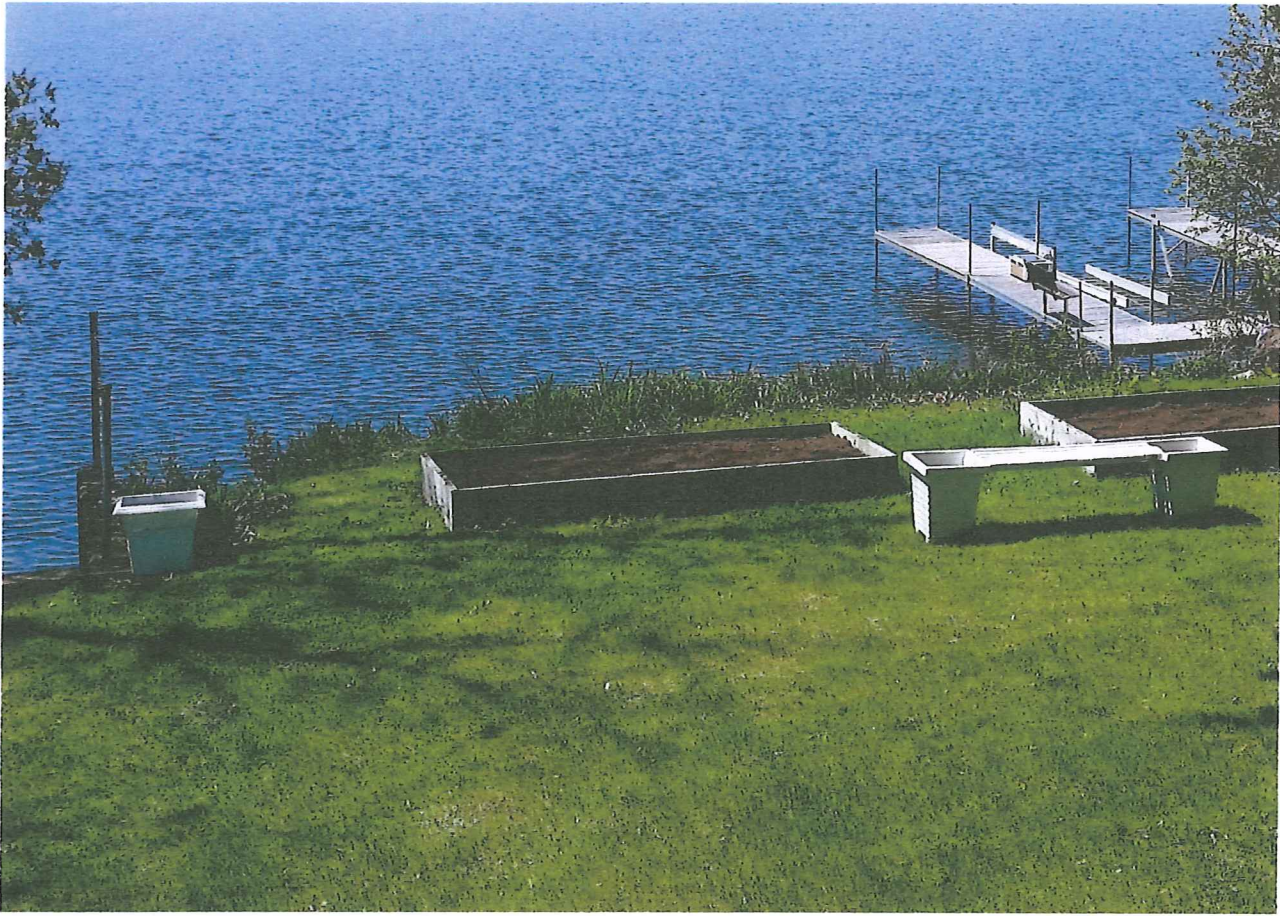
Imagery ©2016 Google, Map data ©2016 Google 2000 ft

Michael + Nancy Janson
 724 Maquam Shore Rd
 St. Albans Town, VT 05488

Michael + Nancy Janson



Michael + Nancy Janson



7/16/2016

Shaun Brooks
722 Maquam Shore Rd.
Swanton, VT 05488

To whom it may concern;

Being the northerly neighbor of Michael and Nancy Janson, who reside at 724 Maquam Shore Rd., and who are planning on having a seawall constructed along the lake shore to support the eroding ledge wall, I have no objections to this construction.

Yours truly,

A handwritten signature in cursive script, appearing to read "Shaun Brooks". The signature is written in dark ink and is positioned to the right of the typed name.

Shaun Brooks

7/16/2016

Lee Grundewald
726 Maquam Shore Rd.
Swanton, VT 05488

To whom it may concern;

Being the southerly neighbor of Michael and Nancy Janson, who reside at 724 Maquam Shore Rd., and who are planning on having a seawall constructed along the lake shore to support the eroding ledge wall, I have no objections to this construction.

Yours truly,

A handwritten signature in cursive script, appearing to read "Lee Grundewald".

Lee Grundewald

LEE GRUNEWALD