

Shoreland Permit Applicationfor a **Shoreland Protection Permit** under Chapter 49A of Title 10, § 1441 *et seq.***For Shoreland Permitting Use Only**Application Number: 264

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WATERSHED MANAGEMENT DIVISION

LAKES & PONDS PROGRAM

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**

1. Landowner's Name: DAN + LINDA O'CONNELL
- 2a. Physical Address (911 Address): 1324 WEST LAKE RD
- 2b. Municipality: WELLS 2c. Zip: 05774 3. SPAN*: 708-225-10694
4. Phone: 802-645-0635 OR 813-230-7772 5. Email: DOC BAY I @ MAC.COM
6. Name of lake/pond: ST. CATHERINE 7. Total shore frontage: 60 (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 www.anr.state.vt.us/dec/waterq/wetlands.htm.
10. Is there a lake encroachment permit associated with this parcel? Yes No Permit #: _____
Contact Lake Encroachment Permitting: www.anr.state.vt.us/dec/waterq/permits/html/pm_encroachment.htm
11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): 9,180 (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: 2511 (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 area on your parcel within the PSA: 6,680 (square feet)
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

B. Applicant Contact Information

1. Name: DAN O'CONNELL
- 2a. Mailing Address: 610 S. ROME AV #604 #
- 2b. Municipality: TAMPA 2c. State: FL 2d. Zip: 33606
3. Phone: 813-230-7772 4. Email: DOC BAY I @ MAC.COM

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

1. Name:
- 2a. Mailing Address:
- 2b. Municipality: 2c. State: 2d. Zip:
3. Phone: 4. Email:

*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. SPAN is a unique identification number for each parcel of property in the State of Vermont consisting of eleven digits. The first three digits identify the town; the next three digits identify the school district; and the last five digits represent the unique parcel or property.

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

2. For developed parcels, how far is the existing habitable structure from Mean Water Level 40 (feet), and how far will new cleared area or impervious surface be from MWL 40 (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):

Non-conforming parcel, existing set-back is 40 feet from MWL

Updated by L.D. on 3/24/16--
from email exchange w/ Misha
on 3/11

- 4a. What is the slope of the project site area: 7 %

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix B, Determining Slope

- 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):

Updated 4/4/16 by L.D. (phone call with applicant)

- 5a. What is the surface area of new impervious surface associated with this project: 674 (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:

~~2328~~ (square feet) and is that 20% or less of the parcel area within the PSA? Yes No

If yes, skip 5c. 3,185

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

SEE STORMWATER NOTES - ATTACHED SHEET.

1. ROOF RUNOFF WATER TRENCHING
2. STORM WATER STREAM W/ PLANTED STILLING BASINS - 3' RIP RAP.
3. CANOPY TREES TO STORE & SLOW RUNOFF.

6a. What is the surface area of new cleared area associated with this project: 0 (square feet)
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

6b. What is the total resulting cleared area* after completion of the project and prior to implementation of best management practices: 6,680 (square feet) and is that 40% or less of the parcel area within the PSA? Yes No If yes, skip 6c. *Total cleared area includes impervious surface area. NA

6c. If no above (6b), describe the best management practices used to provide erosion control, bank stability, and wildlife habitat functionally equivalent to clearing less than 40% (attach support information as needed).

NO NEW CLEARED AREA
SEE ATTACHED DRAWING.

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: Daniel E. O'Connell Date: _____

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. Permit Application Fees

Administrative Fee: \$125.00		125.00
Impervious Area Fee: \$0.50 per square foot	New impervious area (5a.) <u>674</u> x 0.5	\$ <u>337.00</u>
Total:		\$ <u>462.00</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**

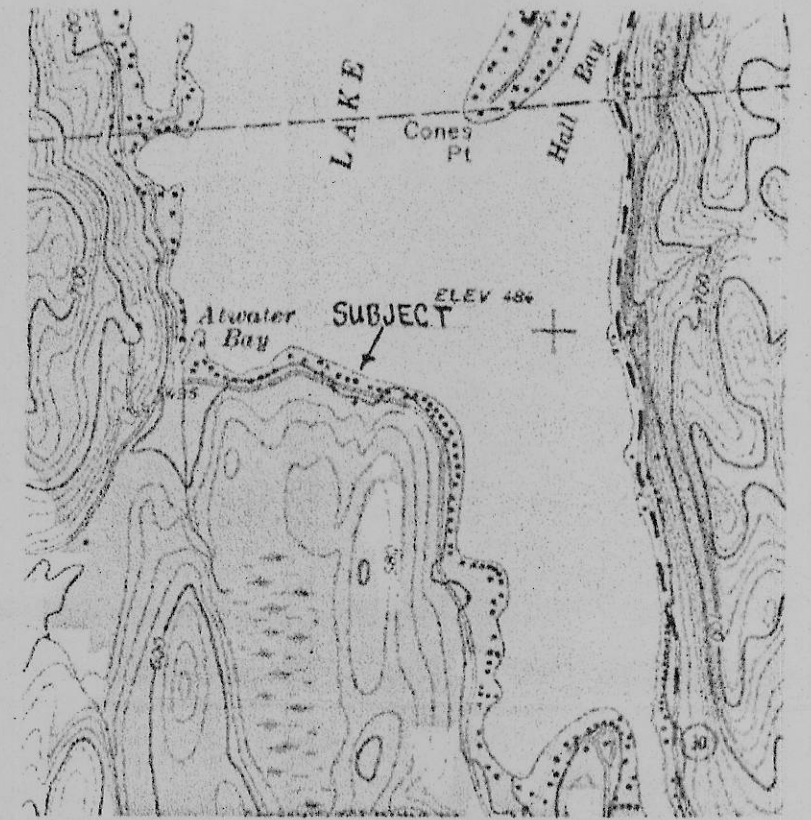
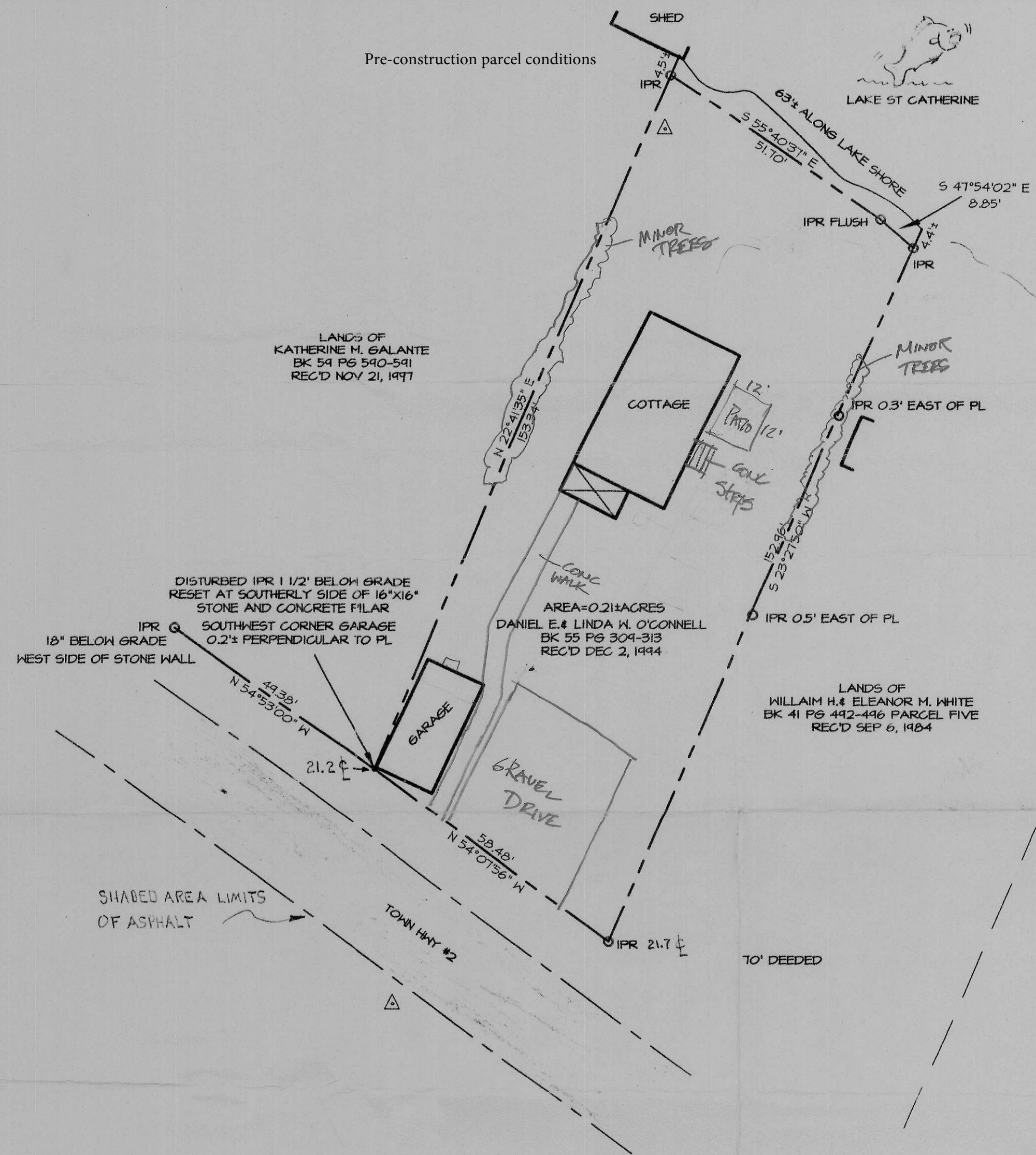
Direct all correspondence or questions to Shoreland Permitting at:
ANR.WSMDShoreland@state.vt.us

For additional information visit: www.watershedmanagement.vt.gov



ALL BEARINGS MAGNETIC
ALL DISTANCES IN FEET

Pre-construction parcel conditions



~ LOCUS ~

I CERTIFY THIS SURVEY IS A TRUE REPRESENTATION OF THE BOUNDARIES & ACREAGE DETERMINED FROM A COMBINATION OF LAND RECORD RESEARCH & PHYSICAL GROUND EVIDENCE VERIFIED IN THE FIELD TO WHICH I AFFIX MY SEAL & SIGNATURE.

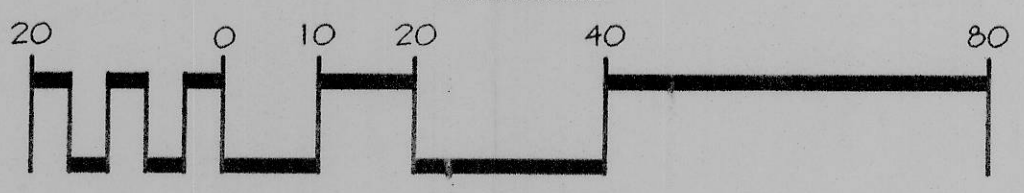
Donald S. Lewis

A TOTAL STATION FIELD SURVEY

~ LEGEND ~

- △ ... TOTAL STATION OCCUPIED
- IPR ... IRON PIPE RECOVERED
- ⊕ ... CENTER LINE
- PL ... PROPERTY LINE

SCALE



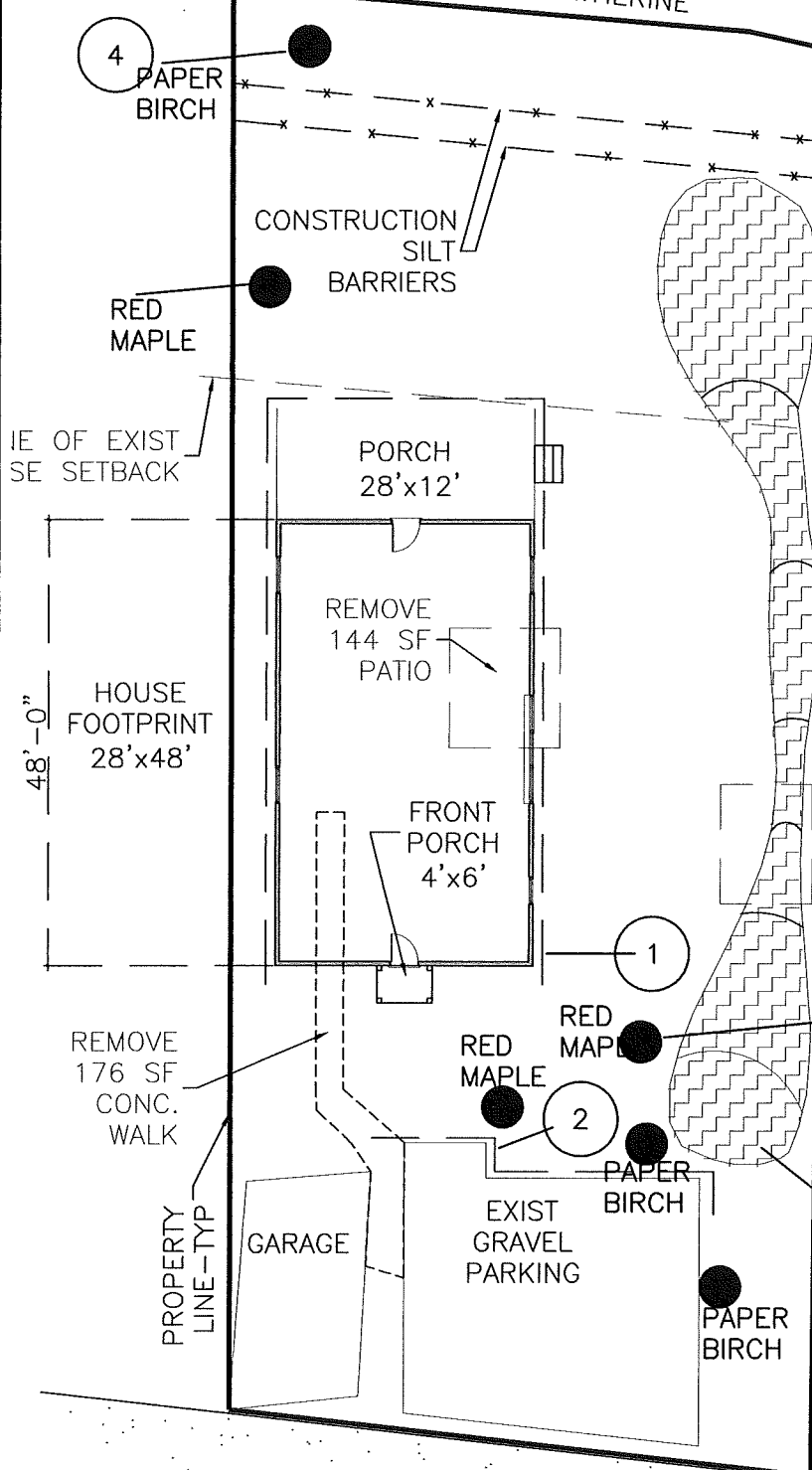
1 INCH = 20 FT



O'CONNELL COTTAGE LOT
 .21 ACRE
 TOWN HWY #2
 WELLS - VERMONT
 DATE SURVEYED: JUL 1999 SCALE: 1" = 20'

REVISED ①

LAKE ST. CATHERINE



GENERAL NOTES:

- 1.) PRIOR TO ALL CONSTRUCTION A SILT BARRIER OF NOT LESS THAN TWO ROWS OF 36" FILTER FABRIC BARRIER STAKED 3' ON CENTER AND BACKED UP WITH A CONT. LINE OF HAY BALES SHALL BE ERECTED ACROSS THE ENTIRE PROPERTY WIDTH 10' FROM SHORELINE AND MAINTAINED THROUGHOUT CONSTRUCTION.
- 2.) ALL BASIN, STILLWATER AND TRENCH EDGE PLANTINGS TO BE SELECTED FROM 'THE FEDERATION OF VERMONT LAKES & PONDS-FOVLAP, POLLINATOR MEADOW GARDEN.

STORMWATER NOTES:

- 1.) LINE OF NEW GRAVEL FILLED ROOF RUNOFF COLLECTION TRENCH (12" w x 30" d TYP. ALL).
- 2.) LINE OF NEW GRAVEL FILLED 12" w x 30" d PARKING LOT RUNOFF COLLECTION TRENCH, FILLED WITH GRAVEL AND DOWNHILL EDGE PLANTED.
- 3.) NEW CREATED STORMWATER STREAM WITH STILLING BASINS & STORM PLANTINGS.
- 4.) NEW CANOPY TREES TO SLOW AND STORE RUNOFF,



MAR 22 2016

Phone Conversation on 4/4/16 to clarify amount and location of new impervious:

The structure will expand new impervious onto existing cleared area by 674 square feet to the side of existing impervious and not any closer to MWL than existing impervious.

OCONNELL RESIDENCE
LAKE CATHERINE

APPROVAL PROCESS
SITE PLAN

Project Description, D:2

The existing 20'x34' (680 SF) cottage, with a 6'x8' (48 SF) porch will be demolished after removing all materials that could be re-used for the new construction. Demolition and excavation will be by Ryan Davenport, who has obtained a 'Natural Shorelines Erosion Control Certification'-this year. Excavation of the existing walks (176 SF), and the (144 SF) patio will also occur at this time. This totals 1048 SF. removal of impervious surface.

A new house footprint of 1344 SF (48'x28') with an additional porch footprint of 336 SF (28'x12'), and a street side entry porch of 24 SF (6'x4') will be constructed. This totals 1694 SF of impervious construction, and a resultant increase of 646 SF impervious area to the site.

To offset this increase of 646 SF numerous best practices of water mitigation will be utilized. Firstly new 12" wide x 30" deep gravel filled roof run-off trenches shall be installed to store and release roof runoff. (6) canopy trees selected from 'The Federation of Vermont Lakes & Ponds-FOVLAP shall be used to store and slowly release rain.

A new water run-off trench (12"wide x 30" deep) shall be dug along the downhill slope of the existing gravel parking, and shall be filled with gravel and sand, wrapped in filter fabric cloth, to catch contaminants.

A new stormwater stream with stilling basins shall be constructed on the side of the property. Stilling steps shall be created by a combination of scalloped shaped dirt removal with stone lips - that slow water flow while dropping off contaminants. These "pools" will be planted with grasses and edging plants per FOVLAP.

Conversation on 4/4/16 to clarify BMP installation (to offset 1,349 square feet of impervious)

1. Removal of 176 square feet of impervious sidewalks
2. 12"x30" gravel trenches along newly constructed structure
3. 12"x 30" gravel trenches along downslope of parking area
4. Bioretention area planted with FOVLAP approved rain garden and pollinator species along eastern property edge approx 500 sq ft.
5. Planting of six trees (red maple and paper birch)

These BMPs adequately address the impervious greater than 20% according to the GI sizing tool

POLLINATOR MEADOW GARDEN

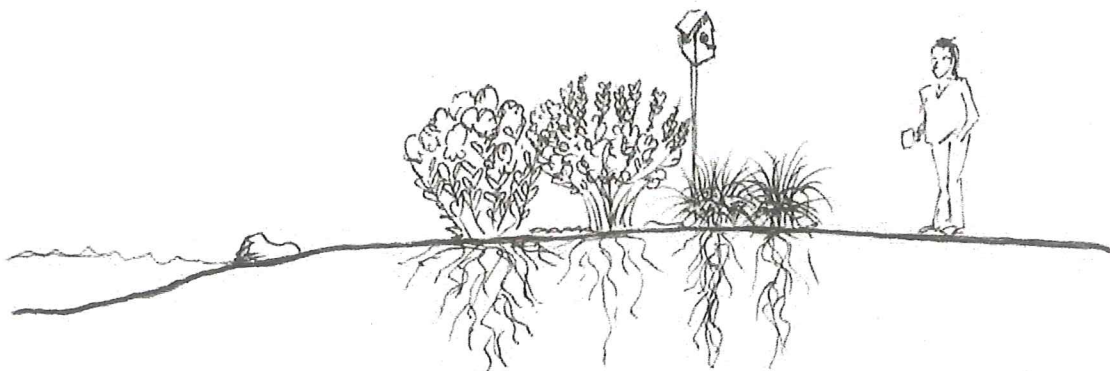
A vibrant cottage flower garden that will serve as a haven for birds, bees, butterflies, and you!



This garden will be buzzing with life come springtime! This cottage-style garden can require as much or little maintenance as you like, depending on your taste for the 'naturalistic' aesthetic. This design can be sited in a sunny to part-shade area in your lawn in fairly well-drained conditions with medium soil moisture. Season-long blooms will satisfy you and a variety of pollinator species.

Section View

The pollinator meadow garden takes the form of a wild flower meadow with added cut flowers and extra color.



POLLINATOR MEADOW GARDEN

Planting Plan

Phlox paniculata
Phlox 'David' (6)

Geranium maculatum
Wild Geranium (4)

Baptisia australis
Blue Wild Indigo (2)

Penstemon hirsutus
Hairy Beardtongue (3)

Carex vulpinoidea
Fox Sedge (4)

Oenothera pilosella
Meadow Evening
Primrose (3)

Echinacea purpurea
Purple Coneflower (4)

Sorghastrum nutans
Indian grass (4)

Spiraea tomentosa
Steeplebush (5)

Monarda punctata
Spotted Beebalm (5)

Sambucus canadensis
Elderberry (3)

Symphotrichum novae-ang
New England Aster (3)

Spiraea alba
Meadowsweet (3)

Aristida purpurea
Purple Threeawn (3)

1" = 5'







Welcome
to the Door



DODGE RAM
1551571

DODGE RAM
1640166

