



Energy Park
780 North Commercial Street
Manchester, NH 03101

September 15, 2015

VIA HAND DELIVERY AND ELECTRONIC MAIL

NHPUC 15SEP15PM4:30

Debra A. Howland
Executive Director & Secretary
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301

Re: Docket DE 15-290 Public Service Company of New Hampshire d/b/a Eversource
Energy – Petition for License to Construct and Maintain Electric Lines Under and Across Island
Pond in the Town of Washington, New Hampshire

Dear Ms. Howland:

The original and six (6) copies of this letter are herewith being filed in connection with the above docket. The purpose of this letter is to provide the responses of PSNH/Eversource Energy to certain requests made to the undersigned by Commission Assistant Director, Safety & Security, Robert Wyatt for supplemental information concerning the water crossing petition in this matter:

- 1 – Land Rights – Attached please find copies of two easements and a street pole license. The easements provide rights for Oehlschlaeger Island (EBA 11264, Chulak) and Spencers Island (EBA 12035, Parker). An easement is not needed for the line on Peterson Island because it is a single customer service line only, for which PSNH does not normally obtain an easement; access to and entry upon the customer's property for installation and maintenance is allowed per PSNH's Electricity Delivery Service Tariff. The pole license (35-0871) provides rights for the pole along Washington Drive.
- 2 – Cable Details – Attached please find the Kerite catalog detail for the cable to be installed on the project. Additionally, attached please find DTR 50.102, the Eversource construction standard for cable installations.
- 3 – Permitting Status – Attached please find a copy of NHDES Shoreland Permit number 2015-1790. At this time a revised NHDES wetlands permit application is being developed for the project, and it is not anticipated that the permit process will be completed in 2015.
- 4 – NESC Correction – Section 5 of the original petition in this matter references the 2007 National Electrical Safety Code (NESC). This was an inadvertent mistake, as Section 5 should have referenced the 2012 NESC, and should be corrected accordingly.

It should be additionally noted that the work associated with the project is now expected to be performed in 2016, not in the September-October 2015 time frame as stated in the original petition. It is expected that the



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pending NHDES wetlands permit process will establish some limitations on when construction is allowable. As a result, an approximate start date cannot be projected at this time. If it is possible to complete the NHPUC water crossing license review process conditional upon receipt of the NHDES Wetlands permit, we would like to do so. However, given the expected delay in construction, this project will not be adversely affected if completion of the review process is temporarily deferred in favor of other projects.

Should there be any questions concerning this letter, please contact the undersigned at (606) 634-2078.
Thank you.

Very truly yours,

A handwritten signature in black ink, appearing to read "D. Still", enclosed within a hand-drawn oval.

David M. Still, P.E.

cc: Robert Wyatt, Assistant Director, Safety & Security
Office of Consumer Advocate
S. Whitcomb

134



WALTER R. CHULAK and SYLVIA A. CHULAK (husband and wife)
 of Trumbull County of Fairfield in The State of Connecticut
 (hereinafter called the Grantor) in consideration of
 one dollar (\$1.00) paid by Public Service Company of New Hampshire and
 Chester Telephone Company corporations duly organized according to law (hereinafter called
 the Grantee) do hereby grant to the Grantee the RIGHT and EASEMENT to construct, repair, rebuild, operate, patrol
 and remove overhead and underground lines consisting of wires, cables, ducts, manholes, poles and towers together
 with foundations, crossarms, braces, anchors, guys, grounds and other equipment, for transmitting electric current
 and/or intelligence, and to do the necessary cutting and trimming of trees and brush, over, under and across
 land in town/city of Washington County of Sullivan in The State of New Hampshire,
 identified as follows:

Being an island located in Washington Lake, also known
 as Island Pond, said island located in the southeasterly part of
 said Washington Lake opposite land now or formerly of Stevens.

For our title see Sullivan County Registry of Deeds,
 Vol. 454, Page 119.

Said lines will be located within the following described limits:
 Starting at the north shore of the island and extending
 ten (10) feet more or less to Public Service Company of
 New Hampshire distribution pole #142/2.

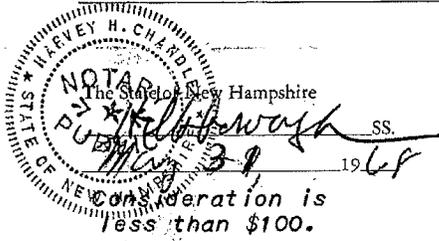
This instrument is given also in release of any rights of dower, curtesy, homestead, and other interests in the
 rights and easements hereby conveyed.

WITNESS our hands and seals this 31 day of May 1968

In the presence of

Cuth M. Smith
 Cuth M. Smith

Walter R. Chulak
 Sylvia A. Chulak



Walter R. Chulak and
 Sylvia A. Chulak
 Personally appeared and acknowledged the foregoing instrument to be
 their voluntary act and deed.

Before me,
 Notary Public Justice of the Peace
 My Commission Expires July 20, 1972



SULLIVAN COUNTY
REGISTRY OF DEEDS
NEWPORT, NEW HAMPSHIRE
Received Feb. 15, 1969
at 9:26 o'clock A.M.
Recorded in Vol. 472, Page 193.
Examined by

J. K. [Signature]
Register.

~~XXX~~ Barbara S. Parker (Married)

of Attleboro County of Bristol Massachusetts
~~New Hampshire~~ in The State of ~~New Hampshire~~

(hereinafter called the Grantor) in consideration of
one dollar (\$1.00) paid by Public Service Company of New Hampshire and Chester Telephone
Company

corporations/ ~~association~~ duly organized according to law (hereinafter called
the Grantee) do hereby grant to the Grantee the RIGHT and EASEMENT to construct, repair, rebuild, operate, patrol
and remove overhead and underground lines consisting of wires, cables, ducts, manholes, poles and towers together
with foundations, crossarms, braces, anchors, guys, grounds and other equipment, for transmitting electric current
and/or intelligence, and to do the necessary cutting and trimming of trees and brush, over, under and across my ~~own~~
land in town ~~of~~ of Washington County of Sullivan in The State of New Hampshire,
identified as follows:

Being an island located in Island Pond. For grantors title see deed of
Fred O. Hurd deeding property to Gladys M. Spencer recorded at Sullivan County
registry of deeds, Vol. 311, page 322. Gladys M. Spencer was Mother of grantor,
deceased April 9, 1971 at Attleboro, Massachusetts.

Said lines will be located within the following described limits: transformer pad

Starting at Public Service Company of New Hampshire ~~at the road corner~~ on ~~the~~
land of grantor ~~at the road~~ and extending in a southerly direction
approximately twenty (20) feet to low water line.

This instrument is given also in release of any rights of dower, curtesy, homestead, and other interests in the
rights and easements hereby conveyed.

WITNESS our hand ^s and seal ^s this 11TH day of OCTOBER 1972

In the presence of:

James A. Halko
June Bailow

X Barbara S. Parker
X John H. Parker



Massachusetts
The State of ~~New Hampshire~~
Bristol SS.

Barbara S. Parker

John H. Parker

Personally appeared and acknowledged the foregoing instrument to be
their voluntary act and deed.
Before me.

11 Oct 1972
Consideration is less
than \$100.

Richard C. Coughlin 31745
Notary Public Justice of the Peace
My commission expires June 14 1979

SULLIVAN COUNTY
REGISTRY OF DEEDS
NEWPORT, NEW HAMPSHIRE
Received Nov. 13, 1972.
at 8:32 o'clock A.M.
Recorded in Vol. 518, Page 342
Examined by *Patricia B. Perkins* Deputy
Register

**PETITION AND POLE LICENSE
PETITION**

COMPLETED
MAR 05 2012
C. O. SUPPORT



Manchester, New Hampshire

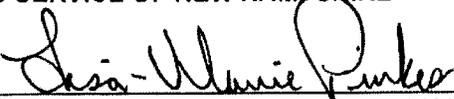
February 28, 2012

To the Board of Selectman of the Town of Washington, New Hampshire.

PUBLIC SERVICE OF NEW HAMPSHIRE requests a license to install and maintain underground conduits, cable and wires, and maintain poles and structures with wires, cables, conduits and devices thereon, together with such sustaining, strengthening and protecting fixtures as may be necessary along, and under the following public ways:

License one (1) pole(s), 141/10Y on Washington Drive in the Town of Washington.

PUBLIC SERVICE OF NEW HAMPSHIRE

BY: 
Lisa-Marie Pinkes, PSNH CO Support / Licensing

LICENSE

Upon the foregoing petition and it appearing that the public good so requires, it is hereby

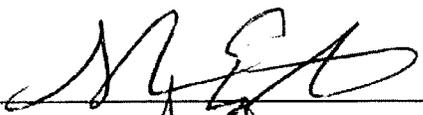
ORDERED

This 28th day of February, 2012, that, PUBLIC SERVICE OF NEW HAMPSHIRE be granted a license to erect and maintain poles and structures, with wires, cables, conduits and devices thereon, together with sustaining, strengthening and protecting fixtures, in the public ways covered by said petition. All of said wires, except such as are vertically attached to poles and structures, shall be placed in accordance with the National Electrical Safety Code in effect at the time of petition and/or license is granted.

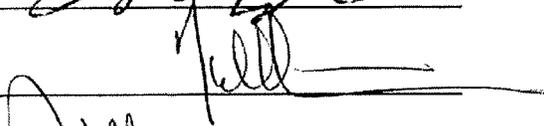
The approximate location of the poles and structures shall be shown on plan marked "PUBLIC SERVICE OF NEW HAMPSHIRE" No. 35-0871, dated 2/28/2012, attached to and made a part hereof.

Town of Washington, New Hampshire

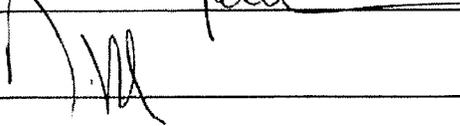
Town of Washington, New Hampshire

BY: 

BY: _____

BY: 

BY: _____

BY: 

BY: _____

Received and entered in the records of the Town of Washington, New Hampshire, Book _____, Page _____

Date: 3/1/2012

ATTEST: 
Town Clerk

POLE LOCATION PLAN

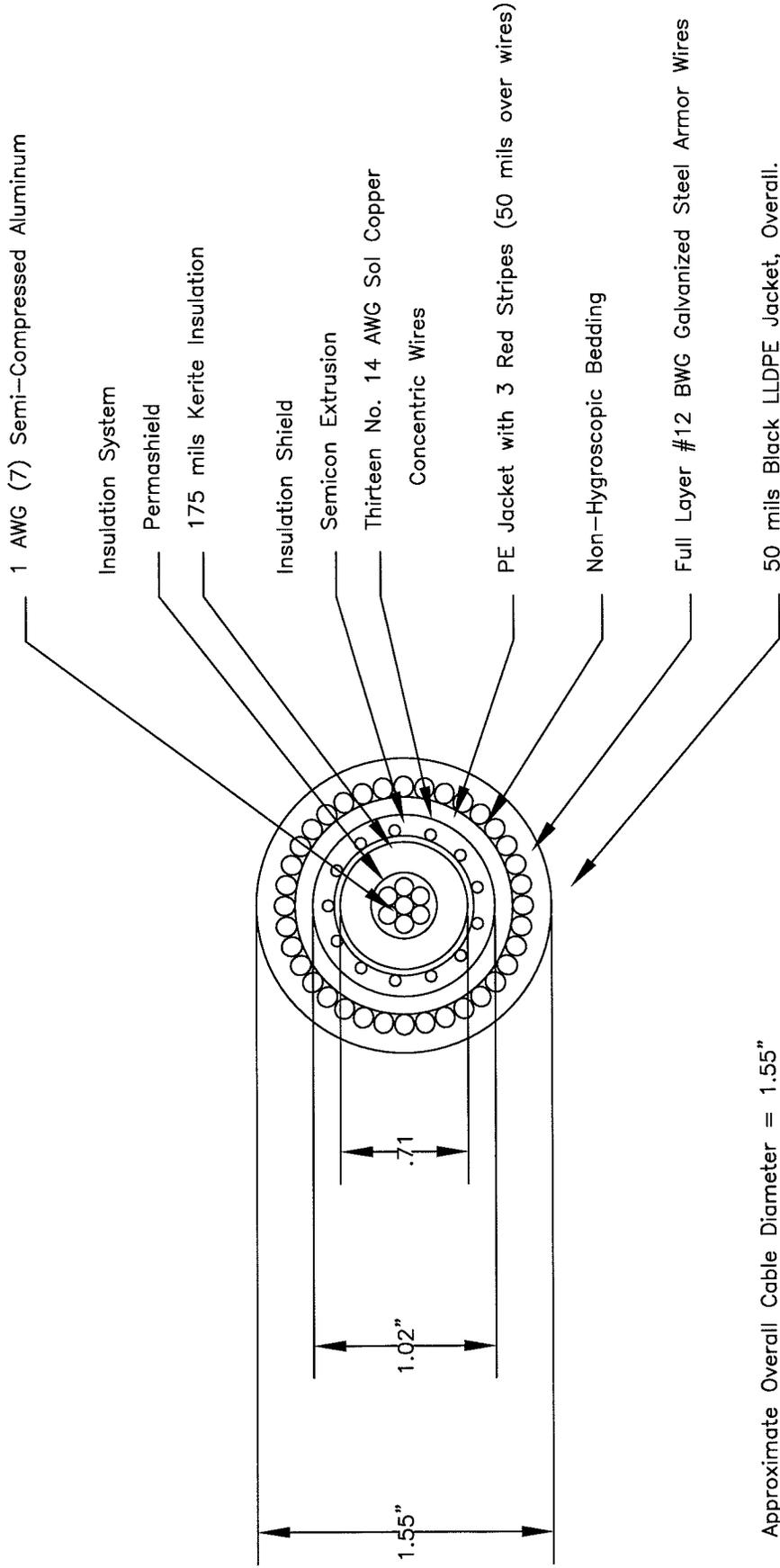
DATE 02/28/2012
 MUNICIPALITY: Washington
 STREET / ROAD: Washington Drive
 PSNH OFFICE: Hillsborough
 PSNH ENGINEER: Scott Whitcomb
 TELCO ENGINEER: _____

LICENSE NO. 35-0871
 STATE HWY. DIV. NO. 4
 STATE LICENSE NO. _____
 WORK REQUEST# 1597056
 WORK FINANCIAL # 9H020537
 TELCO PROJECT # _____

Pole Numbers		Pole Sz-CI	Eq BH	INSTALL		REMOVE	REF	100% LTS	J/O	100% TEL	Span	DIST FROM EOP	Remarks	DOC REQ
LTS	TEL			POLE	PB									
<u>141</u> 11											135			
<u>141</u> 10Y	<u>N/A</u>	40 3	40								162	8	LTS TO SET 100% PSNH POLE & ANCHOR	
<u>141</u> 10														

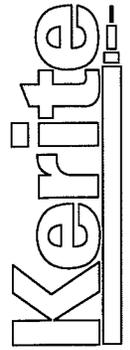
The map shows Washington Drive running diagonally from the bottom-left to the top-right. To the north of the drive is Island Pond. Three pole locations are marked: 141-11 (top right), 141-10Y (middle left), and 141-10 (bottom left). A north arrow is located in the upper right quadrant. The legend at the top of the table defines symbols for pole installation, removal, reference, and various equipment types.

CATALOG NUMBER 101A15-11209



Approximate Overall Cable Diameter = 1.55"
 Approximate Cable Weight in Air = 2.03 lbs per foot
 Approximate Cable Weight in Fresh Water = 1.22 lbs per foot
 Approximate Cable Weight in Salt Water = 1.19 lbs per foot

Note: All dimensional data subject to manufacturing tolerances.

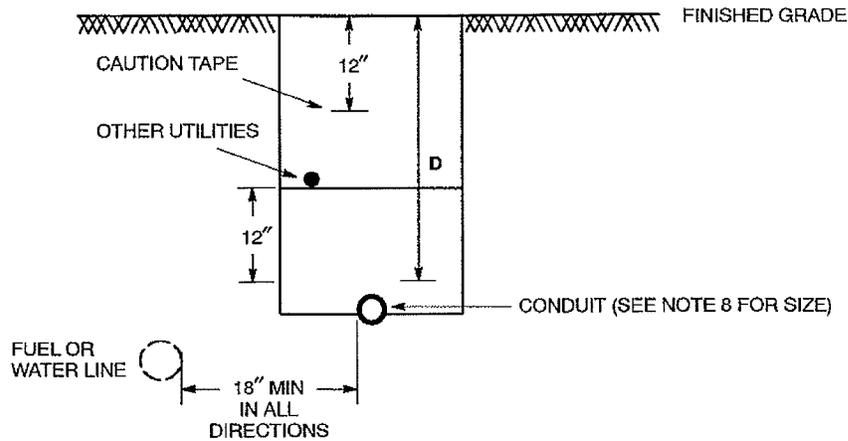


1 AWG (7) AL, 15KV SPS 100% 175 MIL KERITE, EXTRUDED SEMICON,
 13-14 AWG CU CONC WIRES, AND 50 MIL PE JACKET, WITH THREE(3) RED
 STRIPES, 12 BWG GALV ST ARM WIRES, 50 MIL LLDPE JACKET, OVERALL.

Drawing: 101A15-11209-REV.03

Drawn By: *MJD* Scale: NONE

Appr: Date: 5/26/15



**D = 36 inches for primary voltage cable
30 inches for secondary cables**

Notes

1. All non-metallic conduit and fittings shall be electrical grade, Schedule 40 PVC, and shall conform to the applicable sections of NEMA TC2-1990 and be UL Listed. **Only gray-colored conduit will be accepted.** Any PVC conduit not having the proper NEMA and UL markings will not be accepted. All steel conduits shall conform to ASTM A120 and be rigid galvanized steel. All PVC conduit joints must be cemented. Steel fittings shall be sealed with compound.
2. All 90 degree sweeps will be made using rigid galvanized steel with a minimum radius of 24 inches for three inch, 36 inches for four and five inch, and 48 inches for six inch conduit. All steel sweeps within eighteen inches of surface shall be properly grounded.
- ▶ 3. A ten-foot horizontal sections of rigid galvanized steel conduit will be required at each sweep for primary. For secondary and services a ten-foot horizontal section if schedule 40 as per ANSI/NEMA TC2-1990.
4. The conduit should cross paved areas at approximately 90 degrees.
5. Backfill may be made with excavated material or comparable, unless material is deemed unsuitable by PSNH. Backfill shall be free of frozen lumps, rocks, debris, and rubbish. Organic material shall not be used as backfill. Backfill shall be thoroughly compacted in six-inch layers.
6. A suitable pulling string, capable of 200 pounds of pull, must be installed in the conduit before PSNH is notified to install cable. The string should be blown into the conduit after the run is assembled to avoid bonding the string to the conduit.
7. Routing of the conduit and inspection prior to backfill will be provided by PSNH. Installation of the conduit will be done by the contractor. The PSNH supervisor must be notified two business days prior to backfilling the trench. In the event that a cable cannot be successfully pulled through the completed conduit system due to a construction error, it will be the contractor's responsibility to locate and repair the involved conduit. The contractor will be responsible for all resulting expenses.
8. Normal conduit sizes for PSNH are three-inch for single-phase primary and secondary voltage cables, four-inch for three-phase secondary, and five-inch for three-phase primary.
9. All conduit installations must conform to the current edition of the *National Electric Safety Code*, state and local codes and ordinances, and where applicable, the *National Electric Code*.

ORIGINAL	PRIMARY/SECONDARY CABLE INSTALLATION					
04/10/06						
APPROVED	NORTHEAST UTILITIES			CONSTRUCTION STANDARD	DTR 50.102	3
4/9/12 						



THE STATE OF NEW HAMPSHIRE
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 LAND RESOURCES MANAGEMENT
 WETLANDS BUREAU



29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
 Phone: (603) 271-2147 Fax: (603) 271-6588

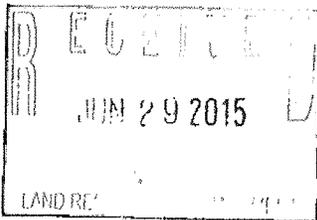
Website: <http://des.nh.gov/organization/divisions/water/wetlands/cspa/index.htm>
 Permit Application Status: <http://www2.des.state.nh.us/OneStop/WetlandPermitsQuery.aspx>

SHORELAND PERMIT BY NOTIFICATION (PBN)¹

Office use only: Accepted Expires: 7/14/20 Rejected
 Check Amount \$ — Check No. — Initials: CWD Date: 7/14/15

Shoreland File Number 2015-1790 Reviewed Date: 7/14/15 Initials: CWD

A. PROJECT AND OWNER INFORMATION					
1.	Project Property Address	Town/City		State	Zip code
	Washington Dr, Pole #141/10Y	Washington		NH	03280
2.	Waterbody Name	Tax Map	Lot	Block	Unit
	Island Pond (aka Washington Pond)	12	188,189,190,110, & 533 Washington Dr		
3.	Property Owner Name (last, first, MI)	Phone No.	Fax No.	An email address authorizes electronic communication	
	Eversource Energy	603-533-4733	603-673-0770	richard.plourde@eversouce.com	
	Mailing address	Town/City		State	Zip code
	138 Elm Street	Milford		NH	03055



¹ Form is not valid unless a shoreland file number is assigned and the notification is accepted, dated and initialed by DES.

B. PROPOSED PROJECT DETAILS: (NOTE: This process cannot be used: a) for impacts to areas under the jurisdiction of RSA 482-A including surface waters and their banks, wetlands, tidal areas including the 100 ft tidal buffer zone, sand dunes and beaches, and; b) to expand the footprint of nonconforming primary structures within the waterfront buffer.)

TOTAL PROPOSED IMPACT AREA: 429 square feet	NEW IMPERVIOUS AREA PROPOSED: 46.8 square feet (three concrete pads on islands)
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DESCRIPTION: A brief description of the proposed project must be stated here. It must list all proposed temporary and permanent impacts, new pervious and impervious areas, and structures.

Eversource Energy will be replacing a 30 year old submersible electric cable that provides electricity to three islands located on Island Pond, Washington, NH. The cable's neutral wire has failed a number of times in the recent past. In order to maintain power to these customers, Eversource Energy needs to replace this cable and associated electrical equipment in the Fall of 2015 (first half of September). The total length of the cable will be 4,200 feet. The pond's reference line is at 1,407 feet surface elevation.

The project involves placing a riser pipe on pole # 141/10Y located in the road right-of-way of Washington Dr. near tax Map 12, Lot 110 that will feed the electrical submarine cable through a PVC underground conduit located in a trench in the ponds shoreland for approximately 50 feet and at the reference line below the pond's bed for another 100+/- feet. The remainder submarine cable will lay on top of the pond's bed until it reaches within 100+/- feet of the first island. The first island is "Oehlschlaeger's Island" (Tax map 12 lot 190). At 100+/- feet from the shoreline, the pond's bed will be dug up and the conduit will be placed into the soil. The conduit will go through the shoreland until it is connected to the new padmount transformer. The padmount area of impact is approximately 10' x 10'. The cable will then leave the first transformer and enter a parallel conduit and continue to the second island, Spensors Island (tax map 12 lot 188). The same steps will occur on Spensors Island as Oehlschlaeger's Island, as well as, the last island Peterson Island (Tax map 12 lot 189). The cable will end on Peterson Island. No trees or shrubs on Washington Dr will be cut. Only shrubs will be trimmed on each island to provide safe access to transformer. The work will be done during the 2015 fall lake draw down period in order to reduce the impact to the shoreline and the pond. Erosion control methods will be used on land (slit fence) and on the pond's bed (turbidity curtain). All existing utility poles on the islands will be cut at grade

The existing submarine cable is feed from riser Pole 141/19Y-2 located at 533 Washington Dr. The existing utility pole will be cut at grade. The submarine cable will be removed.

Square Footage of Temporary Impacted Areas:

	Shoreland	Shoreland	Wetland
Pole # 141/10Y:	59 s.f. trench &	0 s.f. padmount	200 s.f. ponds bed
Island #1:	30 s.f. trench &	100 s.f. padmount	358 s.f. ponds bed
Island #2:	20 s.f. trench &	100 s.f. padmount	332 s.f. ponds bed
Island #3:	20 s.f. trench &	100 s.f. padmount	200 s.f. ponds bed
Project Total:	129 s.f. trench &	300 s.f. padmount	1,090 s.f. ponds bed

Impervious Surfaces:

Concrete Pad Dimensions

Island #1:	15.6 s.f.
Island #2:	15.6 s.f.
Island #3:	15.6 s.f.
Total	46.8 s.f.

All impacted soils will be stabilized with grass seed.

C. CONDITIONS: Agree to the following Permit by Notification conditions by Initialing each one:

 Env-Wq 1406.17(a)	Erosion and siltation control measures shall (1) Be installed prior to the start of work; (2) Be maintained throughout the project; and (3) Remain in place until all disturbed surfaces are stabilized.
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<u>RP</u> Env-Wq 1406.17(b)	Erosion and siltation controls shall be appropriate to the size and nature of the project and to the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to wetlands or surface waters.
<u>RP</u> Env-Wq 1406.17(c)	No person undertaking any activity in the protected Shoreland shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards established in Env-Ws 1700 or successor rules in Env-Wq 1700.
<u>RP</u> Env-Wq 1406.17(d)	Any fill used shall be clean sand, gravel, rock, or other suitable material.
<u>RP</u> Env-Wq 1406.05	Upon receiving acceptance of this Permit by Notification, a copy of page one of this form shall be posted on site prior to the start of work.

D. PBN CRITERIA: In addition to meeting all requirements of RSA 483-B and Rule Chapter Env-Ws1400 the project must meet one of the following. Please check the appropriate qualifying criteria per RSA 483-B:5-b:

<input type="checkbox"/>	1. This project will result in less than 1,500 sq ft of total impact area, of which no more than 900 square feet will be added impervious area (excluding public infrastructure projects); or
<input checked="" type="checkbox"/>	2. This is a public infrastructure maintenance or repair project (public utilities, public roadways and access facilities); or
<input type="checkbox"/>	3. This project is directly related to stormwater management improvements, erosion control projects or environmental restoration or enhancement; or
<input type="checkbox"/>	4. This project is an activity defined as qualified for a permit by notification under Env-Wq 1406.05. Identify the specific paragraph under Env-Wq 1406.05 qualifying this project: <input type="checkbox"/> Env-Wq 1406.05(a) relative to geotechnical borings <input type="checkbox"/> Env-Wq 1406.05(b) relative to monitoring wells <input type="checkbox"/> Env-Wq 1406.05(c) relative to drinking water wells <input type="checkbox"/> Env-Wq 1406.05(d) relative to remediation activities

E. IMPACT AREA AND APPLICATION FEE: Indicate the project type, impact area and fee by checking the appropriate box below.

<input type="checkbox"/>	1. The proposed project will temporarily impact _____ square feet and permanently impact _____ square feet for a total of _____ square feet of impact within 250 feet of the reference line. Total Impact area _____ x \$0.10 per square foot + \$100 = _____ This is the project filing fee. If the result is more the \$250 you cannot use this form.	(Max \$250) \$
<input checked="" type="checkbox"/>	2. The proposed project is a public infrastructure maintenance or repair project.	Fee Exempt
<input type="checkbox"/>	3. The proposed project meets the criteria of Section D.3. above.	\$100.00

F. REQUIRED CERTIFICATIONS: Read and, by hand, initial each of the blank spaces below. By initialing each box and signing below, you are certifying that you understand and agree to comply with each statement.

<u>RP</u>	1. I understand that any impacts completed under a Permit by Notification filed and accepted based on false, incomplete, or misleading information on the application, plans or attachments shall be subject to enforcement action.
<u>RP</u>	2. I am aware that an accepted Shoreland Permit by Notification will not exempt the work I am proposing from other state, local or federal approvals.
<u>RP</u>	3. I am aware of the requirements regarding impervious area thresholds and have provided all necessary materials necessary to clearly demonstrate this project meets at least the minimum standards of RSA 483-B:9, V(g) 1,2 and 3.
<u>RP</u>	4. I understand that project proposals that do not meet the minimum standards of RSA 483-B and Administrative Rules Chapter Env-Wq 1400 shall be rejected.
<u>RP</u>	5. I understand that failure to conduct the work in accordance with the plans and materials submitted with this Notification shall be considered work without a permit and subject to enforcement action. I agree to conduct all work under this Permit by Notification in accordance with the conditions specified in Section C, above.
_____	6. I understand that incomplete notifications will be rejected and the notification fee will be forfeited.

G. REQUIRED SIGNATURE

Signature of Owner: <u>Richard Plouffe</u> (agent may not sign on owner's behalf)	Date: <u>6/25/15</u>
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