

**AGENDA**  
**BOARD OF SELECTMEN**  
**September 3, 2019 AT 6:30 PM**  
**TOWN HALL, PAULSEN MEETING ROOM**

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- I. CALL TO ORDER
- II. CITIZEN COMMENT
- III. SCHEDULED MEETINGS:
  - a. Walter Mitchell – Town Attorney
  - b. State of NH – Bridge rehab Rt.28
  - c. Mike Vignale Upper Beacon Update
  - d. Roads Committee – Update of Paving projects
- IV. OLD BUSINESS:
  - a. Street Light Update
  - b. Broadway/Fairview drainage
  - c. 6 Howard Street
  - d. Economic development Committee
  - e. 4 Union Street
- V. NEW BUSINESS:
  - a. Street Sweeping Bid
  - b. Cemetery/Property Maintenance Bids
  - c. Manifest/Abatements
  - d. Minutes 8/19/19
- VI. TOWN ADMINISTRATOR REPORT
- VII. COMMITTEE REPORTS
- VIII. OTHER/CITIZEN COMMENT
- IX. NON PUBLIC SESSION
- X. ADJOURN



Victoria F. Sheehan  
Commissioner

THE STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION



William Cass, P.E.  
Assistant Commissioner

Allenstown-Pembroke, 40362  
NH Route 28 over Suncook River  
Br. No. 107/098

Bureau of Bridge Design  
Tel: (603) 271-2731

August 16, 2019

RECEIVED  
AUG 19 2019  
TOWN OF  
PEMBROKE, NH

Town Administrator David Jodoin  
Town of Pembroke  
311 Pembroke Street  
Pembroke, NH 03275

Dear Town Administrator Jodoin,

Arrangements have been made by the New Hampshire Department of Transportation to present, as part of the regularly scheduled Selectmen's Meetings, the options for the rehabilitation or replacement of the bridge on NH Route 28 over the Suncook River in the Towns of Allenstown and Pembroke, NH. Due to the deteriorated condition of the bridge it will most likely require the entire bridge deck and possibly the superstructure to be replaced. There will be traffic control associated with this project.

This project may have an effect on cultural or historic resources that are potentially eligible for or listed on the National Register of Historic Places. Individuals or organizations with a demonstrated interest in the potential impacts to historic resources have an opportunity to become Consulting Parties under Section 106 of the National Historic Preservation Act. Additional information will be provided at the meeting.

The Allenstown meeting is scheduled for Monday, August 26, 2019 at 6:00 pm. The meeting will be held at the Allenstown Town Hall, 16 School Street in Allenstown. The Pembroke meeting is scheduled for Tuesday, September 3, 2019 at 6:30 pm at the Pembroke Town Hall, 311 Pembroke St. in Pembroke NH.

The purpose of this meeting is to present citizens and public officials with information regarding the proposed project and to solicit public input in order to ensure that project decisions meet public transportation needs, community goals, and protect and enhance the environment. Accordingly, NHDOT assures that this project will be administered according to the requirements of Title VI of the Civil Rights Act of 1964 and all related statutes to ensure nondiscrimination.

Any individuals needing assistance or auxiliary communication equipment due to sensory impairment or other disability, should contact the Bureau of Right-of-Way, NHDOT, PO Box 483, Concord, New Hampshire 03302-0483 or call 603-271-3222 – TDD Access: Relay NH 1-800-735-2964. Notification for the need of assistance should be made at the earliest convenience.

It is hoped you will plan to attend this meeting.

Sincerely,

*David L. Scott*  
David L. Scott, P.E.  
In-House Design Chief

## Memorandum

**To:** David Jodoin, Town of Pembroke  
**From:** Mike Vignale, KVPartners  
**Date:** April 19, 2019  
**Re:** Construction Meeting – Roadway Improvement Project  
**Cc:** Attendees, Paulette Malo

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A construction meeting was held at the site (Beacon Hill Road) on April 17, 2019. In attendance were Reno Nadeau and Jim Boisvert (DPW), Brent Edmunds, John Barnes (Advanced), and Mike Vignale. Following is a summary of the discussions:

- Work has not begun for the season. John expects to start up in a couple of weeks.
- The stormwater basin was still holding water. Last season John cored a hole and installed a pipe to drain the pond, but the pipe is completely clogged with algae and is not passing flow. The high base flow of groundwater is contributing to the basin being continually wet. Mike V suggested bypassing the groundwater flow at the inlet manhole to allow it to mostly dry out and then retrofitting the basin to handle any groundwater flow that enters directly from the slope (minimal flow). Mike V will develop a plan for discussion in the next week or so. Also, any sediment in the sediment forebay needs to be removed.
- There is a tree branch on the upper portion of Beacon Hill Road that was damaged by an excavator. This branch needs to be removed.
- The property owner at 401 East Meadow Lane notified the Town that there are boulders behind her property and 405-407 that were left after the blasting last year. John is aware of them and will remove them.
- The property owner at 566 Third Range Road expressed concerns about their driveway. They are concerned that flow from the road ponds on their driveway. The driveway is shaped to flow from the west to east and into a grassed swale. The grass swale does have an erosion control check that may be contributing to the ponding concern. The erosion check can be moved now and will be permanently removed following stabilization of the grass swale. That should eliminate and ponding on the driveway.

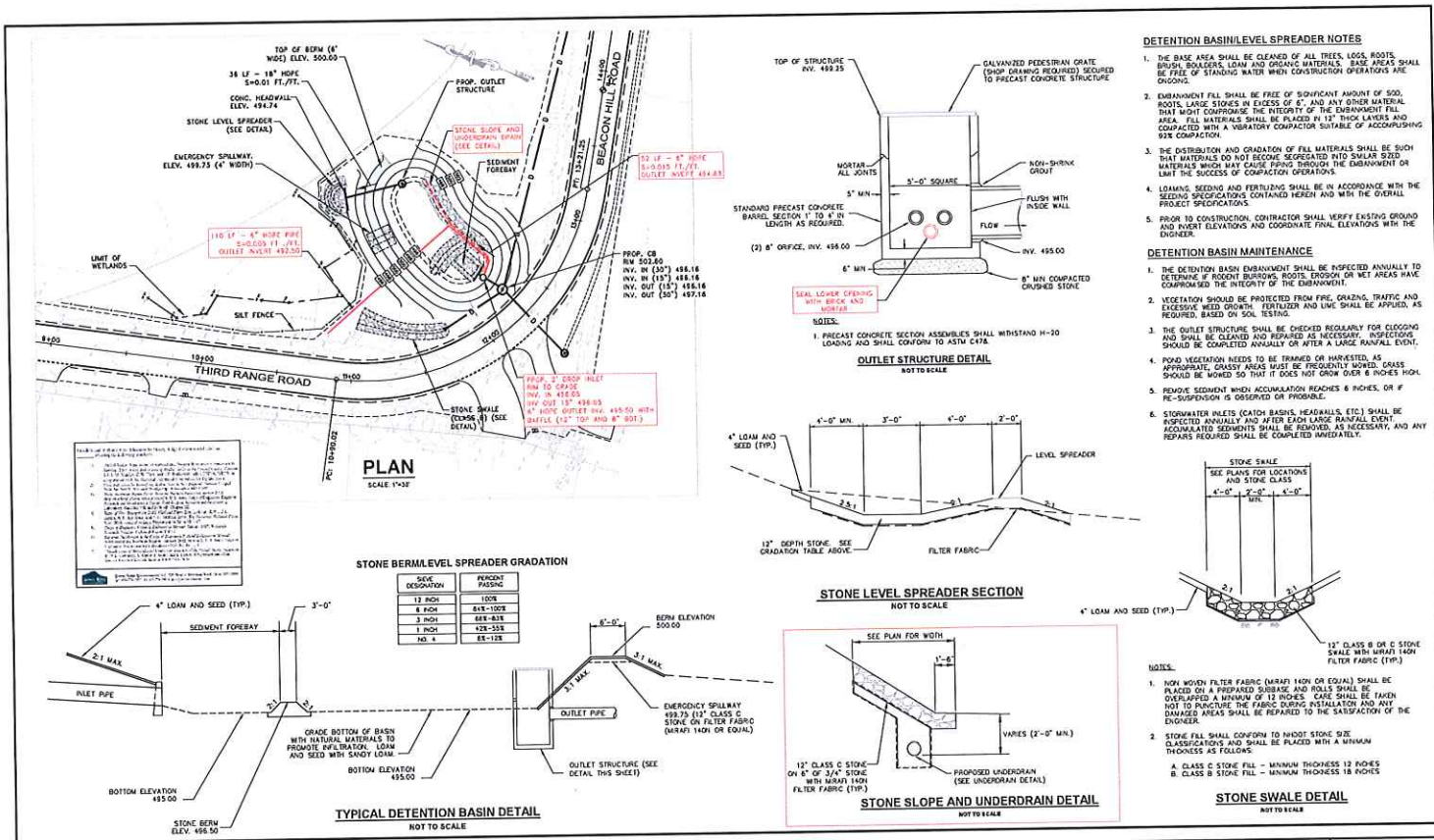


P.O. Box 432, New Boston, NH 03070

- The property owner at 254 Beacon Hill Road requested a slightly wider driveway for easier access to his mailbox. It was agreed to make this minor adjustment during final paving.
- The property owner at 318 Beacon Hill Road expressed concerns about the drainage flowing from the roadway, across an abutter's property and eventually onto their property. This has been previously discussed with the property owner several times and some corrective actions were previously taken (extending a swale where possible). Upon review of the site, it was noted that the swale uphill of the catch basin near their neighbor's driveway may allow high flow to overflow the swale, pass onto and across the neighbor's property and then onto theirs. John will provide a larger back slope (earth berm) on this swale to eliminate any possible swale overflow and direct it into the catch basin. This may reduce flows during severe rain events; however, it was clear that most of the flow to the property owner's property was coming from the abutter's property and not the roadway as was the preconstruction condition. Mike V will follow up by checking grades and discussing this with the property owner.
- The property owner at 412 East Meadow Lane expressed concerns that puddling was occurring in their driveway. Mike V and John reviewed the site and agreed that the driveway would be cut back further (between 5 and 10') and sloped to the roadway during final paving operations.
- Vegetated swales along the east side of Third Range Road between Sta. 15+50 and 25+50 are not fully stabilized as they were not fully completed last season. Considering the continual flow of ground water and difficulty getting vegetation established, the use of Class C stone may provide a more stable swale surface. Swale completion options will be further discussed.
- When reviewing the east View driveway, Mike V asked if John was planning to cold plane around the catch basins prior to paving and John indicated he was not. After further consideration, cold planning a 1" deep area around each basin should be completed to allow surface paving to be properly installed at the basins (1" minimum depth). This will require further discussions prior to final paving.
- As previously noted, Reno brought up a concern about a puddle on the roadway near the mailbox for 408 East View Road. This must be carefully graded when final paving is completed to prevent a puddle and icing during the winter.
- As previously noted, Reno expressed concerns about settlement near the basins at the low point on East View/East Meadow. John indicated that the depression is from a construction vehicle wheel and they will make repairs. Reno also added that there was a puddle at the top of East View near CB 14 that needed to be corrected when final paving. John will take care of this when the paving crews

are on the job for the driveways.

- As previously noted, the minor cleanup at the driveway at 411 East Meadow Lane still needs to be completed. The work included loaming and seeding and removal of some excess pavement pieces.
- As previously noted, Mike V agreed to place an ad in the Construction Summary and see if a buyer can be found for the unused castings and will place the ad in the next few weeks.
- Next meeting will be scheduled once construction begins.



REVISIONS				<div><b>KVPartners LLC</b> P.O. Box 432 New Boston, NH 03070 (603) 413-6550</div>	SCALE AS NOTED		ROADWAY IMPROVEMENT PROJECT PEMBROKE, NEW HAMPSHIRE		SHEET NO.
NUMBER	DATE	BY	DESCRIPTION						13
1	4-18-18	WV	STORM WATER BASIN AND ASSOCIATED DRAINAGE SYSTEM DESIGN		DESIGNED BY:	WV	STORMWATER BASIN PLAN		NOVEMBER 2017
2	5-8-19	WV	ADDED UNDERDRAINS IN STORM WATER BASIN		DRAWN BY:	WV			
					CHECKED BY:	CV			

**CHANGE ORDER No. 5****Contractor:** Advanced Excavating and Paving**Contract:** Pembroke Roadway Improvement Project**Agency:** Town of Pembroke, NH**Date Issued:** August 16, 2019**Designer:** KVPartners, LLC

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**THE FOLLOWING CHANGES ARE MADE TO THE CONTRACT DOCUMENTS****A. ADJUSTMENTS IN CONTRACT PRICE**

(1) The Contract Price from the Agreement (Section 5.01 in the Agreement)	\$1,012,541.00
(2) Net adjustment in said Contract Price in prior Change Orders	\$37,661.00
(3) The amended Contract Price before this Change Order	\$1,050,202.00
(4) Net increase from this Change Order	\$22,930.00
(5) The Contract Price including this Change Order will be	\$1,073,132.00

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**B. OTHER PROVISIONS OF THIS CHANGE ORDER:** It is expressly agreed and understood that the approval of this Change Order will have no effect on the Contract Documents other than with respect to this Change Order and the matters expressly provided in this Change Order.

**C. ATTACHMENTS** - The following additional documents are attached to and made a part of this Change Order by this reference: Proposal from Advanced Excavating dated 8/16/19 and an amended Pond Plan from KVPartners dated 5/8/19.


**D. RECOMMENDED****APPROVED**

  
By the Designer      8-16-19  
Date

  
By the Town      8/19/19  
Date

**E. CERTIFICATION, ACCEPTANCE & WAIVER OF FUTURE CLAIMS BY CONTRACTOR:**

This is to certify to the best of my knowledge and belief that the cost and pricing data so summarized herein are complete, current, and accurate. The undersigned **Contractor** also acknowledges and agrees that the adjustment in Contract Price stipulated in this Change Order constitutes an all-inclusive settlement for all changes and all costs, and the undersigned **Contractor's** signature represents a waiver of any and all rights to file a claim on account of this Change Order, the Work, or the Work involved in this and all prior Change Orders.

  
(The Contractor)      8/20/19  
Date



## **2019 ROAD PAVING BID PRICE PROPOSAL**

The Town of Pembroke, N.H. is soliciting price proposals for providing Hot Bituminous Asphalt Pavement (machine method) 3/8" fine and 1/2" top at various locations, as directed in accordance with NHDOT Standard Specifications. A milling machine will remove a layer of asphalt to a desired depth (1 1/2"). Structures will be adjusted as needed, surface will be swept and tack coat applied prior to the placement of Hot Mix Asphalt, as well as 60' +/- of 24" HDPE pipe and 44' +/- of 12" HDPE pipe both with precast concrete head/wing walls. All equipment, material and flaggers to be included in this bid.

Sealed bids must be marked "2019 Road Paving Bid" and will be accepted until 10:00 a.m. Friday, March 1, 2019 at Pembroke Town Hall located at 311 Pembroke Street, Pembroke, NH 03275 at which time they will be opened and publicly read.

Approximately **2770±** tons of asphalt pavement is to be installed on various roads within the community, at times to be mutually agreed between the Town and the Contractor, allowing maximum flexibility for scheduling. Traffic control personnel to be provided by the Contractor, grading edges & covering catch basins will be contractor's responsibility. Rolling the pavement after placement will be contractor's responsibility. End mill where necessary from 0" to 2" depth (depending on pavement thickness) uniformly over a minimum distance of 24 inches to match new pavement into existing pavement. Tack coat existing pavement and all mill joints with truck or trailer mounted spray bar system at a minimum rate of 0.04 gallons/square yard. Blending driveway aprons, where required, will be considered as "machine method".

The Contractor will be required to provide the proper equipment consistent with industry standards: i.e.: automatic grade control bituminous spreading and finishing machine (pavers) capable of distributing to the required thickness and lane widths, static steel wheeled roller of minimum 8 tons, rubber tired roller producing 2000 lb per wheel; and only equipment listed on the State of New Hampshire's approved equipment list will be allowed. Work will be completed within the specifications of the State of New Hampshire Standard Specifications for Road and Bridge Construction and the Technical Specifications contained herein. If a conflict is found between them, the Technical Specifications contained herein shall rule.

**The Contractor shall enclose with their bid a complete and current certificate of insurance naming the Town of Pembroke, NH as certificate holder, with limits of coverage at a minimum of general liability - \$1,000,000; automobile liability – combined single loss limit (CSL) of \$1,000,000 and evidence of worker's compensation coverage. Evidence of coverage shall also be enclosed for all subcontractors. There will be no escalation clause for any material or fuel adjustments for as long as this contract is in place.**

The Contractor shall fully indemnify and hold harmless the Town of Pembroke, NH from all claims for damage or injury whatsoever that may arise from the encumbrance, obstruction, occupation, or use of said highway, and the Contractor shall be accountable for all damage that may occur on account of said encumbrance, obstruction, occupation, or use of the aforesaid highway.



Payments will be based upon actual quantities used and unit price bid in this contract and a detailed report will be submitted with each payment request. Until the work is substantially complete, retainage shall be ten percent (10%) of the monthly payment claim. Upon issuance of Certificate of Final Completion, retainage shall be reduced to five percent (5%) of the final contract total; said retainage to be held for the ninety (90) day warranty period.

**A performance and payment bond for the full amount of the project is required upon acceptance by the Pembroke Board of Selectmen.**

**All paving must be completed no later than October 31, 2019\*\*.**

The Board of Selectmen reserves the right to reduce project funding at any time.

	Length (FT)	Width (FT)	Compacted Depth (IN)	Tons
Borough Road – isolated patch and shim				
Cross Country Road – isolated patch and shim				
Fifth Range Road – isolated patch and shim				
Sixth Range Road – isolated patch and shim				
Glass Street – Mill and fill	1750	34	1.5	565
Pembroke Hill Road – Mill and fill	1850	28	1.5	492
North Pembroke Road – Mill and fill	5280	22	1.5	1104
Sixth Range Road – Top Coat	1800	21	1.5	359

\*\*Pembroke Hill Road will need to be started after June 24, 2019 and completed by August 23, 2019 due to school traffic.

Contractors are encouraged to review the list of work prior to submitting their bids. Bid price proposals must be on company forms clearly stating the price per ton for hot top. Bid prices for shoulder work should be calculated at tons. Contractors are to submit a list of references of previously completed municipal jobs. All work to be done under the direction of the Public Works Department.

Send bid price proposals to: Pembroke Town Hall  
311 Pembroke Street  
Pembroke, NH 03275

The Town of Pembroke reserves the right to reject any and all bids and to award the bid in the best interest of the Town of Pembroke.

James N. Boisvert  
Director of Public Works

**BID FORM**

<b>ITEM</b>	<b>UNIT</b>	<b>UNIT PRICE</b>
Machine 3/8" fine shim	250+/- Tons	_____
Machine 1/2" finish hot top	2520 +/- Tons	_____
End Mill Taper for Butt Joints	500+/- Linear FT	_____
Handwork Hot Top	20+/- Tons	_____
Shoulder Work, material 1"(-) gravel	50+/- Tons	_____
Milling	25,275 +/- Sq.Yds.	_____
Roadside Ditching	10,000 +/- Linear FT	_____
Adjust structures as needed	Per Each	_____
HDPE 24" pipe installed	60+/- Linear FT	_____
HDPE 12" pipe installed	44+/- Linear FT	_____
Precast concrete head/wing walls	Per Each	_____

Name of Firm: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

Business Address: \_\_\_\_\_

\_\_\_\_\_

Signature of Responsible

Official: \_\_\_\_\_ Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

# **TITLE V**

## **TAXATION**

### **CHAPTER 80**

#### **COLLECTION OF TAXES**

#### **Real Estate Tax Liens**

##### **Section 80:80**

###### **80:80 Transfer of Tax Lien. —**

I. No transfer of any tax lien upon real estate acquired by a town or city as a result of the execution of the real estate tax lien by the tax collector for nonpayment of taxes thereon shall be made to any person by the municipality during the 2-year period allowed for redemption, nor shall title to any real estate taken by a town or city in default of redemption be conveyed to any person, unless the town, by majority vote at the annual meeting, or city council by vote, shall authorize the governing body to transfer such lien or to convey such property by deed.

II. If the governing body is so authorized to convey such property by deed, either a public auction shall be held, or the property may be sold by advertised sealed bids. The governing body shall have the power to establish a minimum amount for which the property is to be sold and the terms and conditions of the sale.

II-a. If the governing body is authorized to transfer such liens during the 2-year redemption period, either a public auction shall be held, or the liens may be sold by advertised sealed bids. The governing body may establish minimum bids, and may set the terms and conditions of the sale. Such liens may be sold singly or in combination, but no fractional interest in any lien shall be sold. Such transfer shall not affect the right of the owner or others with a legal interest in the land to redeem the tax lien pursuant to RSA 80:69, or make partial payments in redemption pursuant to RSA 80:71, but the transferee shall become the lienholder for purposes of RSA 80:72 and 80:76.

III. The governing body may, by a specific article in the town warrant, or by ordinance, be authorized to dispose of liens or tax deeded properties in a manner other than as provided in this section, as justice may require. Before proceeding under this provision, the governing body shall make an affirmative finding that disposal by a method other than sealed bid or public auction is in the public interest.

IV. Such authority to transfer or to sell shall continue in effect for one year from the date of the town meeting or action by the city or town council provided, however, that the authority to transfer tax liens, or to sell real estate acquired in default of redemption, or to vary the manner of such sale or transfer as justice may require, may be granted for an indefinite period, in which case the warrant article or vote granting such authority shall use the words "indefinitely, until rescinded" or similar language.

V. Towns and cities may retain and hold for public uses real property the title to which has been acquired by them by tax collector's deed, upon vote of the town meeting or city council approving the same.

VI. For purposes of this section, the authority to dispose of the property "as justice may require" shall include the power of the governing body to:

(a) Engage a real estate agent or broker to list and sell the property, including a sale conditional on the

buyer's obtaining development approvals;

(b) Sell undeveloped parcels to abutters for consolidation into adjoining lots for the purpose of affordable housing development, preserving open space, or reducing development density; or

(c) Convey the property to a former owner, or to a third party for benefit of a former owner, upon such reasonable terms as may be agreed to in writing, including the authority of the municipality to retain a mortgage interest in the property, or to reimpose its tax lien, contingent upon an agreed payment schedule, which need not necessarily reflect any prior redemption amount. Any such agreement shall be recorded in the registry of deeds. This paragraph shall not be construed to obligate any municipality to make any such conveyance or agreement.

**Source.** 1987, 322:1. 1992, 173:3, 4. 1993, 176:10. 1997, 266:4, eff. Jan. 1, 1998. 2018, 149:1, eff. July 29, 2018.



MARCH  
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MTG.

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To qualify, the person must be eligible under Title II or Title XVI of the Federal Social Security Act, must occupy the property as his principle place of abode, must own the property individually or jointly, or if owned by a spouse, they must have been married for at least 5 consecutive years, had in the calendar year preceding April 1 a net income from all sources of not more than \$13,400 if single and \$20,4000 if married, own net assets not in excess of \$35,000, excluding the value of the persons actual residence and up to 2 acres or the minimum single family residential lot size specified in the Town zoning ordinance.

Appr

**Article 20.** To see if the Town will vote to authorize the Board of Selectmen to sell the property and building located at 4 Union Street and to deposit the proceeds from the sale into the Town's General Fund. (Majority vote required)

**Article 21.** To see if the Town will vote, pursuant to RSA 231:43, to discontinue Terrace Lane for its full length, retaining all existing Town sewer, drain and water pipe easements, pursuant to RSA 231:46, and to deed the resulting parcel of land to the abutter, David and Margaret Sheldon, in consideration of payment by the purchasers of \$1.00 and all costs incurred in connection with the transfer, including costs of preparing a deed and the Town's legal costs, and to authorize the Board of Selectmen to take all steps necessary to transfer the land. (Majority vote required)

**Article 22.** To transact any other business that may legally come before said meeting.

Given under our hands and seal this 9th day of February, 2004

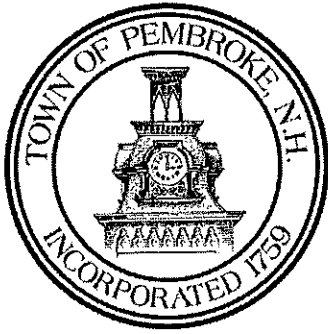
  
John B. Goff, Chair

  
Brian B. Tufts

  
William Boudreau

Board of Selectmen  
Town of Pembroke, NH

This



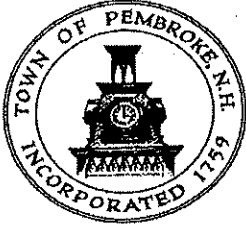
*Town of Pembroke*  
*Department of Public Works*

8 Exchange Street, Pembroke, NH 03275  
Phone: (603) 485-4422 Fax: (603) 485-2613

**To:** Board of Selectmen  
**From:** James Boisvert  
**CC:** David Jodoin  
**Date:** August 27, 2019  
**Re:** Sweeping Bids

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The recommendation from Public Works is to award the sweeping bid for the years 2020, 2021 and 2022 to Immaculate Power Sweeping, LLC



# Town of Pembroke

## Department of Public Works

8 Exchange Street, Pembroke, NH 03275  
Phone: (603) 485-4422 Fax: (603) 485-2613

### 2019 Sweeping Bid Summary

	2020	2021	2022	Comments
Immaculate Power Sweeping, LLC. 1401 Mammoth Road Pelham, NH 03076	\$ 7,650.00	\$ 7,800.00	\$ 7,960.00	Ins. Cert. provided

BOS awarded the bid on

**Bid Submittal – Submit Information for each year.**

1. List all equipment to be used in this contract including a description, i.e.:

Equipment Desc.	<u>Sweeper</u>	Equipment Desc.	_____
Make	<u>Elgin</u>	Make	_____
Model	<u>Broom Badger</u>	Model	_____
Year	<u>2016</u>	Year	_____
Engine	<u>Diesel / Dual Eng</u>	Engine	_____
Special Features	<u>High Jump / Water Sys</u>	Special Features	_____

## 2. Bid Price

## a.) For Year 2020

Approximately 25 miles of road &amp; pavement to be swept.

Lump Sum Bid=	<u>\$ 7650</u>	\$ _____
	Numerical	Written Amount

## b.) For Year 2021

Approximately 25 miles of road &amp; pavement to be swept.

Lump Sum Bid=	<u>\$ 7800</u>	\$ _____
	Numerical	Written Amount

## c.) For Year 2022

Approximately 25 miles of road &amp; pavement to be swept.

Lump Sum Bid=	<u>\$ 7960</u>	\$ _____
	Numerical	Written Amount

## 3. Bidder

Name of Company Official	<u>Derek Grieco</u>
Official's Title	<u>Managing Member</u>
Name of Company	<u>Immaculate Power Sweeping, LLC</u>
Company's Address	<u>1401 Mammoth Rd</u>
	<u>Pelham NH 03076</u>
Company's Phone No.	<u>(603) 598-2608</u>

Notary Public

Date

Company Officials Signature

Date

Corporate Seal

Company Officials Title





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
08/16/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Cross Insurance-Portsmouth 75 Portsmouth Blvd. Suite 100 Portsmouth NH 03801		<b>CONTACT NAME:</b> Amethyste Spardel <b>PHONE (A/C, No, Ext):</b> (603) 812-2600 <b>FAX (A/C, No):</b> (603) 570-1073 <b>E-MAIL ADDRESS:</b> aspardel@crossagency.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	
		<b>INSURER A:</b> Acadia Ins Co.	
		<b>INSURER B:</b> Navigators Specialty Ins. Company	
		<b>INSURER C:</b>	
		<b>INSURER D:</b>	
		<b>INSURER E:</b>	
		<b>INSURER F:</b>	

## COVERAGES

**CERTIFICATE NUMBER:** 19-20 Master Liab

**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			CPA5353659-11	06/27/2019	06/27/2020	EACH OCCURRENCE \$ 1,000,000
			DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000				
			MED EXP (Any one person) \$ 5,000				
			PERSONAL & ADV INJURY \$ 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						GENERAL AGGREGATE \$ 2,000,000
							PRODUCTS - COM/OP AGG \$ 2,000,000
							Employee Benefits \$ 1,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			CAA5353660-11	06/27/2019	06/27/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
			BODILY INJURY (Per person) \$				
			BODILY INJURY (Per accident) \$				
			PROPERTY DAMAGE (Per accident) \$				
							Uninsured motorist \$ 25,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE			CUA5353661-10	06/27/2019	06/27/2020	PROPERTY DAMAGE EACH OCCURRENCE \$ 5,000,000
			AGGREGATE \$ 5,000,000				
			\$				
			\$				
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WCA5353662-10	06/27/2019	06/27/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER
			E.L. EACH ACCIDENT \$ 1,000,000				
			E.L. DISEASE - EA EMPLOYEE \$ 1,000,000				
			E.L. DISEASE - POLICY LIMIT \$ 1,000,000				
B	Pollution Liability			MP18ECP0C02SAIC	06/27/2019	06/27/2020	Operations Pollution Liab 1,000,000
		Site Pollution Liab 1,000,000					
		Environmental Crisis 50,000					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

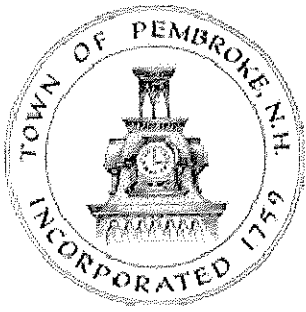
Insurance afforded by the policies described herein is subject to all the terms, exclusions, warranties and conditions of such policies.

## CERTIFICATE HOLDER

## CANCELLATION

Town of Pembroke 311 Pembroke St  Pembroke NH 03275	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Amethyste L. Spardel - AAI-M</i>

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# *Town of Pembroke*

## *Department of Public Works*

8 Exchange Street, Pembroke, NH 03275  
Phone: (603) 485-4422 Fax: (603) 485-2613

### **BID DOCUMENTS STREET SWEEPING**

#### **A. Terms And Conditions**

##### **Task**

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1. All roads, driveways, parking lots, etc. are to be swept clean across their entire width, edge of pavement to edge of pavement and their entire length as described below.

##### **Quality of Work**

---

2. The successful bidder's sweeper will make as many passes necessary to insure each road, driveway, parking lot, etc. is thoroughly cleaned. The Director of Public Works will make the final determination of each road and area that it has been satisfactorily cleaned.

##### **Swept Material**

---

3. The successful bidder will convey all materials that are swept up from the designated areas, to the Pembroke Public Works Transfer Station, 8 Exchange Street, Pembroke, NH and deposit said materials in a pre-designated location. The Pembroke Public Works Department will be responsible for the disposal of this material at the Department's expense.

##### **Labor, Equipment and Materials**

---

4. The successful bidder will supply all the labor, equipment and materials necessary to satisfactorily perform the tasks required in this contract.

##### **Equipment**

---

5. The sweeper or sweepers to be used to complete this contract will be a broom type sweeper(s) that utilize water for cleaning and dust control, must be in good working order, and must be pre-approved by the Director of Public Works.

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### **Dust**

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6. The successful bidder will prevent and control any and all dust generated by the sweeping operation.

---

### **Noise**

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7. The successful bidder will prevent and control all unnecessary and unacceptable noise generated by the sweeping operation.

---

### **Work Schedule**

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- 8a. Work will occur Monday through Friday 7:00 AM to 5:00 PM.
- 8b. No work will occur on Saturdays, Sundays or National Holidays.
- 8c. For 2020, work will start no sooner than May 1, 2020 and work shall be completed by May 25, 2020.
- 8d. For 2021, work will start no sooner than May 1, 2021 and work shall be completed by May 25, 2021.
- 8e. For 2022, work will start no sooner than May 1, 2022 and work shall be completed by May 25, 2022.

---

### **Insurance**

---

9. The Contractor **shall enclose with their bid** a complete and current certificate of insurance naming the Town of Pembroke, NH as certificate holder, with limits of coverage at a minimum of general liability - \$1,000,000; automobile liability – combined single loss limit (CSL) of \$1,000,000 and evidence of worker's compensation coverage. Evidence of coverage shall also be enclosed for all subcontractors. If the policy is changed or cancelled during the policy period, the policy holder shall provide written notice to the Director of Public Works at least fifteen (15) days prior to the effective date of such change or cancellation.
10. The Contractor shall fully indemnify and hold harmless the Town of Pembroke, NH from all claims for damage or injury whatsoever that may arise from the encumbrance, obstruction, occupation, or use of said highway, and the Contractor shall be accountable for all damage that may occur on account of said encumbrance, obstruction, occupation, or use of the aforesaid highway.

## Project Location

This contract covers the following locations to be swept:  
10a.

1	Alexander Drive	0.19	31	East View Drive	0.12	62	Pembroke Hill Road	0.47
2	Appleton Street	0.05	32	Eley Lane	0.35	63	Perley Avenue	0.10
3	Ashley Drive	0.13	33	Elm Street	0.16	64	Pheasant Run	0.14
4	Beacon Hill Road	0.16	34	Exchange Street	0.11	65	Pine Street	0.15
5	Bean Hill Road	0.08	35	Fairview Avenue	0.30	66	Pleasant Street	0.28
6	Belfry Court	0.11	36	Fairway Drive	0.13	67	Prospect Street	0.17
7	Bow Lane	0.63	37	Front Street	0.20	68	Rebecca Drive	0.23
8	Brickett Hill Road	1.03	38	Girard Avenue	0.13	69	Renard Avenue	0.94
9	Bridge Street	0.09	39	Glass Street	0.31	70	Riverview Way	0.23
10	Brittany Circle	0.11	40	Grandview Road	0.12	71	Riverwood Drive	0.26
11	Broadway	0.68	41	Haleighs Court	0.13	72	Rosedale Avenue	0.30
12	Buck Street	1.50	42	High Street	0.30	73	Ross Road	0.09
13	Carrie Avenue	0.08	43	Hillcrest Avenue	0.10	74	Rowe Avenue	0.13
14	Center Road	0.07	44	Howard Street	0.07	75	Sherwood Meadows	0.44
15	Central Street	0.06	45	Jacks Drive	0.12	76	Simpson Ave. Harold Ave.	0.15
16	Chapelle Street	0.05	46	Keystone Lane	0.09	77	Skyview Terrace	0.08
17	Church Road	0.70	47	Kimball Street	0.14	78	Smith Avenue	0.55
18	Church Street	0.10	48	Kline Way	0.11	79	Terrie Drive	0.39
19	Church Street Ext.	0.04	49	Lindy Street	0.09	80	Third Range Rd. (from Pem-	0.26
20	Colonial Drive	0.06	50	Main Street	0.47		broke Hill Rd. to Belanger Dr.)	
21	Commerce Way	0.40	51	Maple Street	0.47	81	Tina Drive	0.40
22	Cooperative Way	0.15	52	Mason Avenue	0.26	82	Turnpike Street	0.23
23	Crescent Street	0.10	53	Meadow Lark Lane	0.05	83	Union Street	0.12
24	Cross Road	0.49	54	Melissa Drive	0.58	84	Village Lane	0.10
25	Dearborn Road	0.63	55	Micol Road	0.28	85	West View Terrace	0.06
26	Deerpath Lane	0.51	56	Middle Street	0.08	86	Whittemore Road	0.63
27	Donald Avenue	0.14	57	Mills Falls Road	0.02	87	Wilkins Avenue	0.10
28	Donna Drive	0.61	58	Millard Street	0.10	88	Woodlawn Ridge Road	0.23
29	Dudley Hill Road	0.62	59	Nadine Road	0.45	89	Safety Center, Library,	2.00
30	East Meadow Lane	0.15	60	Noyes Street	0.13		Town Hall, Old Police Station,	
			61	Peaslee Drive	0.64		Municipal Lot	
<b>TOTAL MILES</b>								<b>25.51</b>



- 10b. **The Director of Public Works reserves the right to add, subtract, and/or substitute roads, driveways and parking areas to the above lists. Any change in road length to be swept will be charged or credited on a prorated basis based upon the bid price for that year divided by the total miles listed to be swept for said year.**

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**Town Funding**

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11. The continuation of this contract is subject to approval and adequate funding raised at Town Meetings for the years of 2020, 2021 and 2022.

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**Rights**

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12. The Town of Pembroke, NH reserves the right to reject any and all bids and to award the bid in the best interest of the Town of Pembroke.

---

**Payments**

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13. After satisfactory completion of sweeping of all roads and areas listed above an invoice may be submitted for the work completed for that year. The Town of Pembroke will make payment in full within 30 days of receipt of said invoice.

**Bid Submittal – Submit Information for each year.**

1. List all equipment to be used in this contract including a description, i.e.:

Equipment Desc.	_____	Equipment Desc.	_____
Make	_____	Make	_____
Model	_____	Model	_____
Year	_____	Year	_____
Engine	_____	Engine	_____
Special Features	_____	Special Features	_____

2. Bid Price

- a.) For Year 2020

Approximately 25 miles of road & pavement to be swept.

Lump Sum Bid= \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Numerical Written Amount

- b.) For Year 2021

Approximately 25 miles of road & pavement to be swept.

Lump Sum Bid= \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Numerical Written Amount

- c.) For Year 2022

Approximately 25 miles of road & pavement to be swept.

Lump Sum Bid= \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Numerical Written Amount

3. Bidder

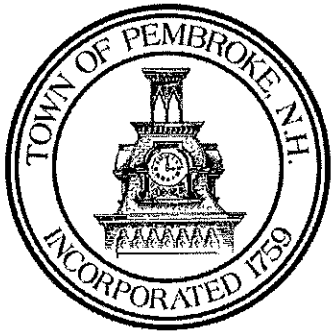
Name of Company Official \_\_\_\_\_  
Official's Title \_\_\_\_\_  
Name of Company \_\_\_\_\_  
Company's Address \_\_\_\_\_  
Company's Phone No. ( ) - \_\_\_\_\_

\_\_\_\_\_  
Notary Public Date

\_\_\_\_\_  
Company Officials Signature Date

Corporate Seal

\_\_\_\_\_  
Company Officials Title



*Town of Pembroke*  
*Department of Public Works*

8 Exchange Street, Pembroke, NH 03275  
Phone: (603) 485-4422 Fax: (603) 485-2613

**To:** Board of Selectmen  
**From:** James Boisvert  
**CC:** David Jodoin  
**Date:** August 27, 2019  
**Re:** Cemetery/Property Maintenance Bids

---

The recommendation from Public Works is to award the Cemetery/Property Mowing bid for the years 2020 and 2021 Mattice Collins Property Services.



# Town of Pembroke

## Department of Public Works

8 Exchange Street, Pembroke, NH 03275  
Phone: (603) 485-4422 Fax: (603) 485-2613

### Cemetery/Prop. Maint. Bid Summary

	2020	2021	Comments
Saints Lawn Care	\$ 17,898.00	\$ 17,898.00	no insurance
241 Dowboro Road			
Pittsfield, NH 03263			
Mattice Collins Property Services	\$ 24,000.00	\$ 24,000.00	insurance on file
111 Kaime Road			
Chichester, NH 03258			

BOS awarded the bid to:  
on:



TOWN OF PEMBROKE

Cemetery and property Maintenance Bid.

Saints Lawn Care is respectfully submitting a bid for the 2020 and 2021 mowing season for the cemeteries and property listed in the RFP.

Saints Bid is \$17,898 dollars per season for a total two-year cost of \$35,796.00

Thank you for allowing me to bid.

Art St Laurent



Saints Lawn Care

603-765-2941

# Mattice Collins Property Services

**603.731.9156**

111 Kaime rd. Chichester NH 03258

Matticecollinsps@gmail.com

mcpslandscaping.net

08/09/19

To: Town of Pembroke N.H.

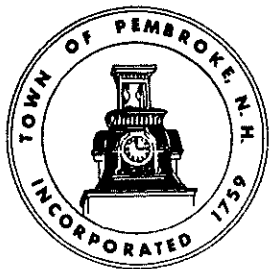
Ref: 2020 – 2021 Cemetery & Property Maintenance

My proposal per bid specifications for mowing, trimming & seasonal cleanup at all properties; not to exceed \$24000.00 in 2020 & \$24000.00 in 2021. Totaling \$48000.00 over the two year contract.

Insurance Certificate available at Pembroke townhall on file.

Thank You

Scott Collins (MCPS)



# TOWN OF PEMBROKE

TOWN HALL • 311 PEMBROKE STREET • PEMBROKE, NH 03275

27 August 2019

Mr. David Jodoin  
Town Administrator  
Town of Pembroke  
311 Pembroke Street  
Pembroke, New Hampshire, 03275

Re : Mowing contract for 2020-21

Dear David:

The Pembroke Cemetery Commission recommends the town's acceptance of the mowing bid submitted by Mattice Collins Property Services.

Mattice Collins, formerly doing business as "BMC General Contractors," has always performed excellent work.

The company has been prompt in maintaining the public cemeteries of Pembroke, conscientious about details of their mowing, and careful to avoid damaging the monuments in our cemeteries. We have found them to be responsive to our requests and those of the Department of Public Works, and professional in all aspects of their work.

Sincerely,

James L. Garvin, Secretary  
Pembroke Cemetery Commission

Cc: Ellen Paulsen, Chair

**TOWN OF PEMBROKE, NH**  
**2020 - 2021 CEMETERY & PROPERTY MAINTENANCE**  
**SPECIFICATIONS**

**Responsibilities**

Perform cleanup once in spring and once in fall. Mow and trim once every ten (10) days in April and August through October, and every seven (7) days in May through July at the following properties:

1. Town Hall, 311 Pembroke Street
2. Fire Station, 247 Pembroke Street
3. Library, 313 Pembroke Street
4. Police Station, 247 Pembroke Street
5. Town property, corner of Main Street and Turnpike Street
6. Parks
  - a. Veterans Park, Main Street & Broadway
  - b. Pembroke Park, Pembroke Street
7. Welcome to Pembroke sign lot, Pembroke Street at Route 106
8. Double Decker Bridge lot, Glass Street at Turnpike
9. Perry Eaton Building, 4 Union Street
10. Robert Frost Park Bench, Buck Street
11. Legion Memorial, Main Street
12. Bow Lane intersection, grass area

Perform cleanup once in spring and once in fall. Mow and trim once every fourteen (14) days in April and July through October, and every seven (7) days in May and June at the following properties:

1. Buck Street Cemetery, Buck Street & Route 28
2. Evergreen Cemetery, Buck Street
3. Pembroke Street Cemetery, Pembroke Street
4. Pembroke Hill Cemetery, 4th Range Road
5. North Pembroke Cemetery, 8th Range Road
6. North Pembroke Cemetery, Blueberry Hill
7. Langmaid Monument, Academy Road

Perform cleanup once in spring and once in fall. Mow and trim, every fourteen (14) days or as necessary, April through October, the following properties:

1. Abbott Cemetery, Borough Road
2. Richardson Cemetery, Cross Country & Sixth Range

**Spring Cleanup**

All lawns will be raked to include all grassed areas; all lawn edges will be raked free of sand; and all leaves, branches, and debris will be removed.

**Fall Cleanup**

All leaves will be picked up and removed; all dead flowers will be removed; and all sticks and branches will be removed.

**TOWN OF PEMBROKE, NH**  
**2020 - 2021 CEMETERY & PROPERTY MAINTENANCE**  
**SPECIFICATIONS**

**Mowing**

Trash and branches will be picked up before each mowing and all trimming shall be done at the same time that the properties and cemeteries are mowed.

**References**

Bidders must provide names and telephone numbers of at least three (3) clients. Preference for awarding the contract will be given to those firms that have successfully performed this service for the Town of Pembroke in the past.

**Security**

Successful bidder shall furnish a letter of credit to the Town in the amount of fifteen (15%) percent of the Grand Total Bid. Letter of Credit shall be valid until December 1, 2021. The letter of credit will be called if the contractor fails to properly perform the work according to the specifications.

**Insurance**

The Contractor shall enclose with their bid a complete and current certificate of insurance naming the Town of Pembroke, NH as certificate holder, with limits of coverage at a minimum of general liability \$1,000,000.00, automobile liability – combined single loss limit (CSL) of \$1,000,000.00 and evidence of worker's compensation coverage. Evidence of coverage shall also be enclosed for all subcontractors.

**Term of contract**

The contract will be valid for two (2) years, with an option to renew for two (2) additional years, contingent upon approval of funding each fiscal year at the Annual Town Meeting. Contract can be broken with a thirty (30) day written notice from either party. Notice of termination must be sent by certified mail.

**Payment Schedule and Report of Work Performed**

For the purpose of payment and the monitoring of work performed, the Contractor shall submit a work report to the Public Works Department, on forms to be supplied by the Town, within twenty-four (24) hours of each cutting or cleaning. A sample form is attached. Reports of cuttings or cleanings will be spot checked by the Pembroke Public Works Director or his designee and the Contractor will be promptly notified of any potential discrepancy and will be expected to remedy same immediately or the total charges on the report will be reduced appropriately. The Contractor shall also report any damage to any monument or grounds during the reported cutting or cleaning that is caused by the Contractor. Total charges for work performed during the month will be accumulated by the Town and payment will be processed during the weeks in which the Board of Selectmen meet (normally the first and third Mondays of the month). The last payment in each year will be held until successful completion of fall cleanup.

The Board of Selectmen reserves the right to accept or reject any and all bids in the best interest of the Town of Pembroke.

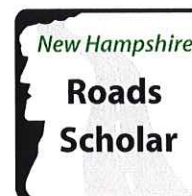


RECEIVED  
AUG 26 2019  
TOWN OF  
PEMBROKE, NH

Technology Transfer Center  
Kingsbury Hall #W220  
33 Academic Way  
Durham, NH 03824  
V: 603.862.2826 / 800-423-0060 (NH only)  
F: 603.862.0620  
TTY: 7-7-7 (Relay NH)  
[www.t2.unh.edu](http://www.t2.unh.edu)

August 19, 2019

Board of Selectmen  
Town of Pembroke  
311 Pembroke Street  
Pembroke, NH 03275



Re: Roads Scholar Program

Dear Sirs and Madams:

It is our pleasure to inform you that Steven Perron has achieved the status of **Safety Champion**. The T<sup>2</sup> Center has created the Roads Scholar Program to recognize various achievement levels in our educational program for people who work in public works.

**Safety Champion** is a side award given once a recipient achieves 20 Safety hours, regardless of what Roads Scholar Level he has reached in the Program.

On behalf of the Technology Transfer Center, I am pleased to notify you of the extra effort and commitment that Steven has demonstrated in order to achieve this status. He deserves to be congratulated for his persistence and drive to maintain a leading edge in the field of local road maintenance and construction.

Sincerely,

Marilee LaFond  
UNH Technology Transfer Center Manager

/ml

cc: Steven Perron

*The UNH Technology Transfer Center is sponsored by the Federal Highway Administration and the New Hampshire Department of Transportation. One of the missions of the Technology Transfer Center is to provide educational support for the people who build and maintain the nation's infrastructure*



357 Pembroke Hill Rd  
Pembroke, NH 03275

August 23, 2019

**RECEIVED**  
AUG 26 2019  
TOWN OF  
PEMBROKE, NH

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Planning Board  
Board of Selectmen  
Town of Pembroke  
311 Pembroke St.  
Pembroke, NH 03275

Planning Board and Selectmen:

Reference is made to my letters of August 6 and July 8, 2019 and previous correspondence and testimony regarding the subdivision plan submitted by San Ken Homes, Inc. (Plan Application #18-09 for Tax Map 262, Lots 43 & 45) at 373 Fourth Range Road. Two days subsequent to my July 8 letter, the Town received two letters from Rokeh Consulting, LLC, on behalf of San Ken Homes, Inc., requesting the Board of Selectmen and Planning Board to extend public hearings, originally scheduled in July, to August 19 and August 27, 2019. I believe that these requests were in response to the deficiencies I have previously brought to your attention regarding the stormwater analysis for the proposed drainage system at the intersection of Pembroke Hill, Fourth Range and Robinson Roads. These extensions, which were granted by the Town, have provided the developer with 5 weeks to revise his stormwater drainage plan for this intersection.

On August 13, the developer submitted a revised Stormwater Management Report dated August 9, 2019, an Environmental Impact Assessment (EIA) dated August 2019, as well as other materials. In anticipation of these submissions, my August 6 letter requested that the Boards provide a minimum of 30 days for public review prior to the closure of public hearings and any action to approve the subdivision plan and/or the reclassification of Fourth Range or Robinson Roads. That letter was submitted as testimony for the public hearings at the Board of Selectmen's meeting on August 19 and the Planning Board Meeting of August 27. My request for a 30-day review period was not addressed at the public hearing on August 19. Assuming that the Planning Board will likely follow suit, I have conducted a limited review of the revised Stormwater Management Report and the EIA in the brief amount of time I have had available. My findings are discussed below.

With regard to the stormwater report, I have repeatedly stated to both Boards that the developer's proposed sizing for the culvert, that crosses the Pembroke Hill, Fourth Range, and Robinson Road intersection, was too small to carry the flow computed in his stormwater analysis. In my letter of July 8, I stated my intention to litigate this issue if the Planning Board did not require the developer to address this deficiency. The developer finally submitted a revised plan on August 13. Please refer to Attachments 1 and 2, which contain summaries of the 10-year rainfall-runoff

analyses for pre-development conditions from his prior and most recent submissions, respectively. You will note that the developer's remedy was not to increase the culvert size, but to reduce his design flow by 83 percent; from 28.32 cubic feet per second (cfs) in his original plan (Attachment 1, Subcatchment 1S) to 4.77 cfs in his most recent submission (Attachment 2, Subcatchment 1S). The apparent basis for this dramatic change was a reduction in the size of the drainage area used in the analysis from 30.9 acres to 8.8 acres. It seems incredible that the initial measurement of the drainage area for this culvert could have been in error by nearly 350 percent and that this error was not identified in the Town Engineer's review. Is the public now expected to accept the revised number as the correct one? Are the flows computed for the other subcatchments and reaches correct? In my opinion, as a professional hydrologist and a formerly licensed professional geologist in the State of New Hampshire, the magnitude of this correction calls into serious question the credibility of the entire Stormwater Management Report.

At the request of members of the citizenry, the Pembroke Conservation Commission, and me, at the Planning Board meeting of May 28, 2019, the Board unanimously voted to retain its own wetland scientist and an independent hydrologist to review the developer's wetland delineations and hydrology, respectively. Proposals were subsequently obtained to procure these reviews. At the Planning Board meeting of June 25, the Board dropped further action on these independent reviews (without a motion or vote to do so) and instead accepted a gratuitous offer by the developer to provide an EIA. As documented in the minutes of the June 25 meeting, the developer's wetland scientist described the EIA as one which would: 1. Take all the wetlands and drainage issues into account and how they affect habitat, wildlife, roads, and wells. 2. Take an all-around look at impacts from the development. 3. Address the land characteristics now versus how they would change after development, including runoff, impervious surfaces, vegetation, and the amount of water.

After reviewing the EIA, my opinion is that it does nothing to address the concerns raised by the Planning Board or the citizenry regarding the surface-water and ground-water impacts of the proposed subdivision. It appears to be largely a regurgitation of information already provided by the developer, or readily available to the Town from other sources. The report is inflated in size by the inclusion of irrelevant material and contains no new information on specific project impacts. Instead, the report draws broad, sweeping, and largely unsubstantiated conclusions that project impacts are minimal and insignificant.

In conclusion, I believe the evidence is overwhelming that the project review processes for this complex subdivision has been inadequate and that the Planning Board's reliance only on data generated, or paid for, by the developer is not in the Town's best interest. I again call upon the Board, as requested in my initial January 19, 2019 letter, to contract with qualified independent experts to conduct reviews of the applicant's proposed wetland delineations, septic system designs and percolation testing, stormwater and drainage plans, and roadway, sidewalk and curbing plans, including assessments of pre- and post-development vehicular, pedestrian, and bicycle traffic. The Planning Board has a responsibility to the Town taxpayers to adequately review this project, including following through on its vote of May 28 to conduct independent reviews. The Planning Board must reject the current subdivision plan until all independent reviews are completed and any identified deficiencies are addressed.



This letter is submitted as part of my testimony for the continued public hearings at the Pembroke Planning Board Meeting of August 27 2019.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Mrazik', written in a cursive style.

Brian R. Mrazik, Ph.D., PG

## ATTACHMENT 1

**05-16-19 Sanken PRE**

*Type III 24-hr 10-year Rainfall=4.21"*

Prepared by RJB Engineering

Printed 5/17/2019

HydroCAD® 10.00-21 s/n 05821 © 2018 HydroCAD Software Solutions LLC

Page 6

Time span=5.00-30.00 hrs, dt=0.05 hrs, 501 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment 1S: SUB 1</b>	Runoff Area=1,346,573 sf 0.68% Impervious Runoff Depth=1.61" Flow Length=2,540' Tc=38.8 min CN=72 Runoff=28.32 cfs 4.145 af
<b>Subcatchment 2S: SUB 2</b>	Runoff Area=446,652 sf 0.00% Impervious Runoff Depth=1.68" Flow Length=1,820' Tc=20.0 min CN=73 Runoff=13.23 cfs 1.435 af
<b>Subcatchment 3S: SUB 3</b>	Runoff Area=1,512,482 sf 0.00% Impervious Runoff Depth=1.54" Flow Length=2,515' Tc=24.1 min CN=71 Runoff=37.56 cfs 4.455 af
<b>Subcatchment 4S: SUB 4</b>	Runoff Area=5,574,508 sf 0.00% Impervious Runoff Depth=1.61" Flow Length=6,090' Tc=49.4 min CN=72 Runoff=102.98 cfs 17.160 af
<b>Subcatchment 5S: SUB 5</b>	Runoff Area=137,156 sf 0.00% Impervious Runoff Depth=1.75" Flow Length=230' Slope=0.0300 '/' Tc=13.0 min CN=74 Runoff=5.02 cfs 0.460 af
<b>Subcatchment 6S: SUB 6</b>	Runoff Area=1,296,477 sf 0.00% Impervious Runoff Depth=1.47" Flow Length=4,375' Tc=28.5 min CN=70 Runoff=28.41 cfs 3.650 af
<b>Subcatchment 7S: SUB 7</b>	Runoff Area=65,642 sf 0.00% Impervious Runoff Depth=2.38" Flow Length=850' Tc=14.6 min CN=82 Runoff=3.21 cfs 0.299 af
<b>Reach 1R: RUNOFF</b>	Avg. Flow Depth=0.65' Max Vel=4.39 fps Inflow=13.23 cfs 1.435 af n=0.040 L=600.0' S=0.0467 '/' Capacity=33.70 cfs Outflow=13.04 cfs 1.435 af
<b>Reach 2R: STREAM</b>	Avg. Flow Depth=1.04' Max Vel=5.01 fps Inflow=37.56 cfs 4.455 af n=0.040 L=550.0' S=0.0327 '/' Capacity=160.28 cfs Outflow=37.19 cfs 4.455 af
<b>Link 2L: DN 2</b>	Inflow=49.91 cfs 5.890 af Primary=49.91 cfs 5.890 af

**Total Runoff Area = 238.280 ac Runoff Volume = 31.605 af Average Runoff Depth = 1.59"**  
**99.91% Pervious = 238.071 ac 0.09% Impervious = 0.209 ac**

## ATTACHMENT 2

**08-09-19 Sanken PRE**

*Type III 24-hr 10-year Rainfall=4.21"*

Prepared by

Printed 8/12/2019

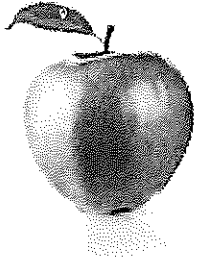
HydroCAD® 10.00-20 s/n 04200 © 2017 HydroCAD Software Solutions LLC

Page 10

Time span=5.00-30.00 hrs, dt=0.05 hrs, 501 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment 1S: SUB 1</b>	Runoff Area=383,506 sf 2.54% Impervious Runoff Depth=1.41" Flow Length=1,065' Tc=72.2 min CN=69 Runoff=4.77 cfs 1.031 af
<b>Subcatchment 2S: SUB 2</b>	Runoff Area=446,652 sf 0.00% Impervious Runoff Depth=1.68" Flow Length=1,820' Tc=20.0 min CN=73 Runoff=13.23 cfs 1.435 af
<b>Subcatchment 3S: SUB 3</b>	Runoff Area=1,512,482 sf 0.00% Impervious Runoff Depth=1.54" Flow Length=2,515' Tc=24.1 min CN=71 Runoff=37.56 cfs 4.455 af
<b>Subcatchment 4S: SUB 4</b>	Runoff Area=5,574,508 sf 0.00% Impervious Runoff Depth=1.61" Flow Length=6,090' Tc=49.4 min CN=72 Runoff=102.98 cfs 17.160 af
<b>Subcatchment 5S: SUB 5</b>	Runoff Area=137,156 sf 0.00% Impervious Runoff Depth=1.75" Flow Length=230' Slope=0.0300 '/' Tc=13.0 min CN=74 Runoff=5.02 cfs 0.460 af
<b>Subcatchment 6S: SUB 6</b>	Runoff Area=1,296,477 sf 0.00% Impervious Runoff Depth=1.47" Flow Length=4,375' Tc=28.5 min CN=70 Runoff=28.41 cfs 3.650 af
<b>Subcatchment 7S: SUB 7</b>	Runoff Area=65,642 sf 0.00% Impervious Runoff Depth=2.38" Flow Length=850' Tc=14.6 min CN=82 Runoff=3.21 cfs 0.299 af
<b>Reach 1R: RUNOFF</b>	Avg. Flow Depth=0.65' Max Vel=4.39 fps Inflow=13.23 cfs 1.435 af n=0.040 L=600.0' S=0.0467 '/' Capacity=33.70 cfs Outflow=13.04 cfs 1.435 af
<b>Reach 2R: STREAM</b>	Avg. Flow Depth=1.04' Max Vel=5.01 fps Inflow=37.56 cfs 4.455 af n=0.040 L=550.0' S=0.0327 '/' Capacity=160.28 cfs Outflow=37.19 cfs 4.455 af
<b>Link 2L: DN 2</b>	Inflow=49.91 cfs 5.890 af Primary=49.91 cfs 5.890 af

**Total Runoff Area = 216.171 ac Runoff Volume = 28.490 af Average Runoff Depth = 1.58"**  
**99.90% Pervious = 215.948 ac 0.10% Impervious = 0.224 ac**



# Town of Londonderry

## Planning & Economic Development Department

268B Mammoth Road  
Londonderry, New Hampshire 03053  
Phone (603) 432-1100 x149  
[www.londonderrynh.org](http://www.londonderrynh.org)



**RECEIVED**  
AUG 20 2019  
TOWN OF  
PEMBROKE, NH

### **NOTICE OF FORMAL REVIEW OF A SITE PLAN**

As the owner/applicant, engineer/surveyor or abutter, you are hereby notified, pursuant to NHRSA 676:4, I (d) and the Town of Londonderry Subdivision and Site Plan Regulations, of the following public hearing being held by the Planning Board:

**The Londonderry Planning Board will hold a Public Hearing on Wednesday, September 4, 2019 at 7:00 p.m. in the Moose Hill Council Chambers, 268B Mammoth Road, Londonderry, NH to consider the following:**

**Application for formal review of a site plan for the design and construction of a telecommunications facility, 11 Mohawk Drive, Map 6 Lot 35-3, Zoned C-I, Tahoe Realty Holding, LLC (Owner) & Bay Communications III, LLC and T-Mobile Northeast, LLC (Applicant)**

Please be advised that you have the right to testify during the public hearing.

Upon a finding by the Board that the application meets the submission requirements of the Londonderry Subdivision or Site Plan Regulations, the Board will vote to accept the application as complete, and a public hearing on the merits of the proposal will follow immediately.

Should a decision not be reached at the public hearing, the Board will announce the date and time to which the application is continued.

If an application is conditionally approved or denied, written notice from the Planning Board will be sent to the owner/applicant within five business days stating the conditions of approval or the reasons for denial.

The plans & files for the above referenced project are available for review by the public in the Planning & Economic Development Division Office, second floor of the Town Hall. Plans are also available online at [www.londonderrynh.org](http://www.londonderrynh.org); select "Planning and Economic Development" from Departments, then select the "Projects Currently Under Review" link.

Londonderry Planning & Economic Development Department, August 19, 2019



August 16, 2019

Board of Selectmen  
Town of Pembroke  
311 Pembroke Street  
Pembroke, NH 03275

RECEIVED  
AUG 22 2019  
TOWN OF  
PEMBROKE, NH

**Re: Turner Classic Movies Moving to Sports Entertainment Package**

Dear Chairman and Members of the Board:

We are committed to keeping you and our customers informed about changes to Xfinity TV services. Accordingly, please note that effective October 10, 2019, Turner Classic Movies (TCM) will move to the Sports Entertainment Package and will no longer be included in its current service package(s). We are notifying impacted customers of these changes through a bill message.

Please feel free to contact me at 603-224-1871, ext. 202 if you have any questions.

Very truly yours,

*Bryan Christiansen*

Bryan Christiansen, Sr. Manager  
Government Affairs



## Allenstown Sewer Commission

35 Canal Street  
Allenstown, NH 03275  
603-485-5600  
FAX 800-859-0081



August 15, 2019

Pembroke Sewer Commission  
4 Union Street  
Pembroke, NH 03275

**RECEIVED**

AUG 16 2019

TOWN OF  
PEMBROKE, NH

Re: Pembroke Sewer Commission letter dated 7/8/2019

Dear Paulette,

We acknowledge receipt of your letter dated 7/8/2019, and are prepared to accept your statement as to the status of the allocation of the 98,000 gallons per day (gpd) previously permitted by the NHDES. Additionally, we are prepared to approve connection requests from Pembroke for the remaining balance of 25,283 gpd prior to acceptance of a new IMA.

In regards to your request for the Lodges at Pembroke Pines the total max flow for phase 1 is 8,584 gpd and the total max flow for phase 2 is 10,601 gpd, the sum of which is 19,185 gpd. You have requested approval for 19,152 gpd. I would ask that you verify your calculations prior to seeking ASC approval to award flow to this applicant.

As a reminder, Pembroke will still need to make requests for approval in writing to the ASC prior to any allocation of flow to any and all applicants, including the Lodges at Pembroke Pines, for any of the remaining balance of the 25,283 gpd.

Once the remaining 25,283 gpd is allocated out to applicants, it is our assertion, which is supported by the attached "Flow Evaluation Technical Memorandum", Pembroke will have received all available capacity entitlement under both the original and the current IMA. Furthermore, since Pembroke has not quantified any reduction of inflow & infiltration (I&I) by a professional engineer, Pembroke is not entitled to any additional capacity due to I&I reduction.

In closing, we must once again reject your calculation of usage in your letter dated 7/8/19. The premise of which does not demonstrate Pembroke's entitlement to any flow capacity over the unallocated 25,283 gpd remaining from its original capacity allocation.

Going forward; the ASC intends to execute a new IMA with Pembroke, and proceed with the sale of 150,000 gpd of capacity to Pembroke. Likewise, the ASC will insist the new IMA be predicated on approved allocation of capacity, not actual flow.

Best Regards,

A handwritten signature in cursive script that reads "Jeffrey Backman".

Jeffrey Backman, Superintendent

Enclosures

cc: Derik Goodine – Allenstown Town Administrator  
David Jodoin – Pembroke Town Administrator





150 Dow Street  
Manchester, New Hampshire 03101  
603-669-5555  
603-669-4168 fax  
[www.hoyletanner.com](http://www.hoyletanner.com)

**FLOW EVALUATION TECHNICAL MEMORANDUM**

**PROJECT:** Allenstown/Pembroke Intermunicipal Agreement  
Hoyle, Tanner Project No. 013640

**DATE:** August 12, 2019

**PROJECT  
LOCATION:** Allenstown, NH

**SUBJECT:** Evaluation of Pembroke, NH Wastewater Flows to Allenstown

**PREPARED BY:** Michael A. Trainque, PE – Hoyle, Tanner & Associates, Inc.

**COPY:**

**Distribution:** Town of Allenstown

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Pursuant to a request by the Town of Allenstown Sewer Department, we have completed an evaluation of the wastewater flows from the Town of Pembroke, New Hampshire for the period from January 2000 through June 2019 inclusive except for the year 2003 for which the data was not readily available. The primary object of this evaluation was to determine the current status of wastewater flows from the Town of Pembroke, NH to the Allenstown wastewater treatment facility (WWTF) relative to the Town of Pembroke's allotted capacity at the Allenstown WWTF.

The Allenstown WWTF was put into operation in 1977. The WWTF is located in, owned and operated by the Town of Allenstown, NH. It is a regional facility that serves the Towns of Allenstown and Pembroke. The design average flow capacity of the Allenstown WWTF as originally constructed was 1.050 million gallons per day (MGD) or 1,050,000 gallons per day (GPD). Pursuant to prior agreement, the Town of Allenstown was allocated 35% of the WWTF capacity or 367,500 GPD and the Town of Pembroke was allocated 65% of the WWTF capacity or 682,500 GPD. The Town of Allenstown completed an upgrade to the WWTF in 2011 that increased the average daily design flow capacity of the WWTF from 1.05 MGD to 1.55 MGD. Pursuant to a recent needs assessment completed by Hoyle, Tanner in February 2018, the Town of Allenstown is reserving 645,000 GPD for projected needs. Taking into consideration the 682,500 GPD flow capacity already allocated to the Town of Pembroke leaves a total of 222,500 available for potential sale to Pembroke or others.

Wastewater flow is metered at the WWTF and at two locations within the Allenstown wastewater collection system. The metering data is used to monitor the total wastewater flows to the WWTF as well as the flows from Allenstown and Pembroke, respectively. The Allenstown Sewer Department



Evaluation of Pembroke, NH Wastewater Flows

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furnished flow monitoring data for the period from January 2000 through June 2019, inclusive except for the year 2003 for raw data exists but was not readily available. The flow metering data is attached to and included as part of this memorandum. The flow data furnished includes average, minimum and maximum daily wastewater flows. Our evaluation was based on average daily flow but we also looked at maximum daily flows as well to get a better perspective on impacts to the WWTF.

Our evaluation of the flow monitoring data indicated that the monthly average daily wastewater flow from Pembroke exceeded its allocated flow of 682,500 GPD in at least 8 months during the referenced time period, the most recent of which occurred in November 2018. There were also many individual days on which the average daily flow from Pembroke exceeded its allocated flow capacity. The monthly average daily flows are shown graphically on the attached flow graphs. The average monthly maximum daily flows are also shown in the attached graphs. The orange horizontal line represents Pembroke's allocated capacity of 682,500 GPD. The horizontal blue line in the graphs represents 80 percent of Pembroke's allocated capacity.

Additionally, we looked at the highest consecutive 3-month flow for each year. These are shown in tabular form as well as graphically on the attached flow graphs.

It is evident from the flow monitoring data that wastewater flow from Pembroke still occasionally exceeds the Town's allocated capacity of 682,500 GPD. In the absence of any data to the contrary, such as documented infiltration/inflow mitigation and reduction, it is reasonable to conclude that Pembroke has reached its allocated capacity at the Allenstown WWTF as evidenced by the historical flow data. In view of this, the only current capacity that Pembroke has available to allocate to new sewer connections is that within its original allocated capacity that has not yet been allocated to specific sewer customers as well as any reductions in infiltration/inflow due to rehabilitation or replacement of old or deficient sewer system components.

We also note that there is the potential for the average daily wastewater flow from Pembroke to exceed its allocated capacity for 90 consecutive days or more during high-groundwater wet-weather periods since that has occurred in the past. This is the standard that the NHDES uses to determine whether a wastewater treatment facility has reached or exceeded its design average daily flow capacity.

In terms of infiltration/inflow reduction, the Massachusetts Department of Environmental Protection (MADEP) has a regulatory policy of 4:1 mitigation of infiltration/inflow for new connections to sewers subject to infiltration/inflow. In other words, sewer capacity is allocated on the basis of 1 GPD for every 4 GPD of infiltration/inflow removed. This policy has generally been followed in New Hampshire as well. In fact, the Town of Allenstown previously received a letter from the New Hampshire Department of Environmental Services (NHDES) stating this requirement. The Town of Allenstown has adopted this policy for allocating capacity for removal of infiltration/inflow.

Year & Month	Daily Average Flow (mgd)			Old Capacity (mgd)			80% Old Capacity (mgd)			Max 24 Hour (mgd)			3-Month Max Avg Daily Flow		
	Pembroke	Allenstown	Total	Pembroke	Allenstown	Total	Pembroke	Allenstown	Total	Pembroke	Allenstown	Total	Pembroke	Allenstown	Total
2000 Jan-00	0.3513	0.2427	0.5940	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8783	0.6068	1.4851			
2000 Feb-00	0.3814	0.2681	0.6495	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9535	0.6703	1.6238	1.7791	1.2031	2.9822
2000 Mar-00	0.6421	0.3876	1.0297	0.6825	0.3675	1.05	0.546	0.294	0.84	1.6052	0.9690	2.5743	1.3748	0.8985	2.2965
2000 Apr-00	0.6801	0.4431	1.1231	0.6825	0.3675	1.05	0.546	0.294	0.84	1.7002	1.1077	2.8078	1.7036	1.0988	2.8256
2000 May-00	0.4570	0.3724	0.8294	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1424	0.9310	2.0735	1.7791	1.2031	2.9822
2000 Jun-00	0.3505	0.2942	0.6447	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8762	0.7355	1.6117	1.4875	1.1097	2.5972
2000 Jul-00	0.3050	0.2573	0.5623	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7625	0.6431	1.4056	1.1124	0.9238	2.0363
2000 Aug-00	0.3261	0.2899	0.6160	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8152	0.7248	1.5399	0.9815	0.8414	1.8229
2000 Sep-00	0.2967	0.2627	0.5594	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7418	0.6568	1.3986	0.9278	0.8099	1.7377
2000 Oct-00	0.3070	0.2435	0.5505	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7674	0.6088	1.3762	0.9298	0.7961	1.7259
2000 Nov-00	0.3484	0.2847	0.6331	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8709	0.7118	1.5827	0.9521	0.7909	1.7430
2000 Dec-00	0.3703	0.2865	0.6567	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9256	0.7162	1.6419	1.0256	0.8147	1.8403
2001 Jan-01	0.3044	0.2730	0.5774	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7609	0.6824	1.4434			
2001 Feb-01	0.3124	0.2781	0.5905	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7809	0.6954	1.4763	1.5935	1.2368	2.8303
2001 Mar-01	0.5882	0.3783	0.9665	0.6825	0.3675	1.05	0.546	0.294	0.84	1.4705	0.9457	2.4162	1.2049	0.9294	2.1343
2001 Apr-01	0.6886	0.5489	1.2384	0.6825	0.3675	1.05	0.546	0.294	0.84	1.7239	1.3722	3.0961	1.5901	1.2053	2.7954
2001 May-01	0.3157	0.3097	0.6254	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7893	0.7742	1.5635	1.5935	1.2368	2.8303
2001 Jun-01	0.3371	0.2802	0.6173	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8427	0.7005	1.5432	1.3423	1.1387	2.4811
2001 Jul-01	0.2732	0.2173	0.4905	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6830	0.5433	1.2263	0.9260	0.8072	1.7332
2001 Aug-01	0.2631	0.2160	0.4791	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6577	0.5400	1.1977	0.8733	0.7135	1.5799
2001 Sep-01	0.2719	0.2066	0.4785	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6798	0.5164	1.1963	0.8082	0.6399	1.4411
2001 Oct-01	0.2784	0.2030	0.4813	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6959	0.5075	1.2033	0.8133	0.6256	1.4319
2001 Nov-01	0.2839	0.1962	0.4801	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7098	0.4905	1.2003	0.8342	0.6058	1.4399
2001 Dec-01	0.2816	0.2015	0.4831	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7040	0.5038	1.2077	0.8438	0.6007	1.4445
2002 Jan-02	0.2864	0.2157	0.4898	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7160	0.5394	1.2245			
2002 Feb-02	0.2649	0.2047	0.5072	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6624	0.5117	1.2679	1.2419	0.7691	2.0032
2002 Mar-02	0.3523	0.2440	0.5816	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8807	0.6100	1.4541	0.9036	0.6644	1.5786
2002 Apr-02	0.3894	0.2363	0.6307	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9734	0.5909	1.5768	1.0066	0.6850	1.7195
2002 May-02	0.4681	0.2658	0.7159	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1701	0.6645	1.7897	1.2097	0.7461	1.9282
2002 Jun-02	0.3845	0.2670	0.6567	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9611	0.6674	1.6417	1.2419	0.7691	2.0032
2002 Jul-02	0.2933	0.2291	0.5096	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7332	0.5728	1.2740	1.1458	0.7619	1.8821
2002 Aug-02	0.2638	0.2121	0.4643	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6596	0.5303	1.1606	0.9416	0.7082	1.6305
2002 Sep-02	0.2690	0.2046	0.4774	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6726	0.5116	1.1936	0.8262	0.6458	1.4513
2002 Oct-02	0.2806	0.2152	0.4836	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7016	0.5379	1.2090	0.8135	0.6319	1.4253
2002 Nov-02	0.3354	0.2391	0.5912	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8386	0.5977	1.4781	0.8851	0.6589	1.5523
2002 Dec-02	0.3830	0.2391	0.6069	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9576	0.5977	1.5172	0.9991	0.6934	1.6817
2003 Jan-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Feb-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Mar-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Apr-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 May-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Jun-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Jul-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Aug-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Sep-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Oct-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Nov-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2003 Dec-03				0.6825	0.3675	1.05	0.546	0.294	0.84						
2004 Jan-04	0.3810	0.2831	0.6641	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9525	0.7077	1.6602			
2004 Feb-04	0.2739	0.2446	0.5370	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6847	0.6114	1.3424	1.5632	1.2883	2.8514
2004 Mar-04	0.3387	0.2651	0.6038	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8468	0.6627	1.5094	0.9936	0.7927	1.8048
2004 Apr-04	0.7429	0.5280	1.2759	0.6825	0.3675	1.05	0.546	0.294	0.84	1.8698	1.3201	3.1898	1.3605	1.0376	2.4167
2004 May-04	0.4675	0.4372	0.9047	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1687	1.0930	2.2617	1.5541	1.2303	2.7844
2004 Jun-04	0.3478	0.3231	0.6708	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8694	0.8078	1.6771	1.5632	1.2883	2.8514
2004 Jul-04	0.2572	0.2542	0.5114	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6431	0.6354	1.2785	1.0725	1.0145	2.0869
2004 Aug-04	0.2626	0.2453	0.5079	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6565	0.6133	1.2697	0.8676	0.8226	1.6901
2004 Sep-04	0.3032	0.2603	0.5636	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7581	0.6508	1.4089	0.8230	0.7598	1.5828
2004 Oct-04	0.2774	0.2465	0.5239	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6935	0.6163	1.3098	0.8432	0.7522	1.5954
2004 Nov-04	0.2936	0.2479	0.5415	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7340	0.6198	1.3538	0.8743	0.7548	1.6290
2004 Dec-04	0.4034	0.2840	0.6872	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0085	0.7100	1.7179	0.9744	0.7784	1.7526
2005 Jan-05	0.3831	0.2834	0.6665	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9577	0.7085	1.6662			
2005 Feb-05	0.3811	0.2938	0.6749	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9528	0.7345	1.6871	1.8886	1.4007	3.2892
2005 Mar-05	0.4758	0.3317	0.8075	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1896	0.8293	2.0189	1.2400	0.9089	2.1489
2005 Apr-05	0.6678	0.4976	1.1654	0.6825	0.3675	1.05	0.546	0.294	0.84	1.6694	1.2441	2.9135	1.5247	1.1231	2.6478
2005 May-05	0.4745	0.4001	0.8746	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1863	1.0002	2.1866	1.6181	1.2294	2.8476
2005 Jun-05	0.3984	0.3116	0.7094	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9960	0.9274	1.9234	1.5407	1.2687	2.8094
2005 Jul-05	0.3593	0.3424	0.7017	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8983	0.8559	1.7542	1.2322	1.1134	2.3457
2005 Aug-05	0.2499	0.2534	0.5033	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6248	0.6334	1.2582	1.0077	0.9687	1.9743
2005 Sep-05	0.2456	0.2409	0.4865	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6140	0.6022	1.2162	0.8549	0.8366	1.6914
2005 Oct-05	0.7203	0.4318	1.1721	0.6825	0.3675	1.05	0.546	0.294	0.84	1.8008	1.1294	2.9302	1.2159	0.9460	2.1619
2005 Nov-05	0.6091	0.4865	1.0956	0.6825	0.3675	1.05	0.546	0.294	0.84	1.5228	1.2163	2.7391	1.5750	1.1792	2.7542
2005 Dec-05	0.5592	0.4824	1.0215	0.6825	0.3675	1.05	0.546	0.294	0.84	1.3980	1.1560	2.5536	1.8886	1.4007	3.2892
2006 Jan-06	0.6242	0.5315	1.1557	0.6825	0.3675	1.05	0.546	0.294	0.84	1.5605	1.3288	2.8893			

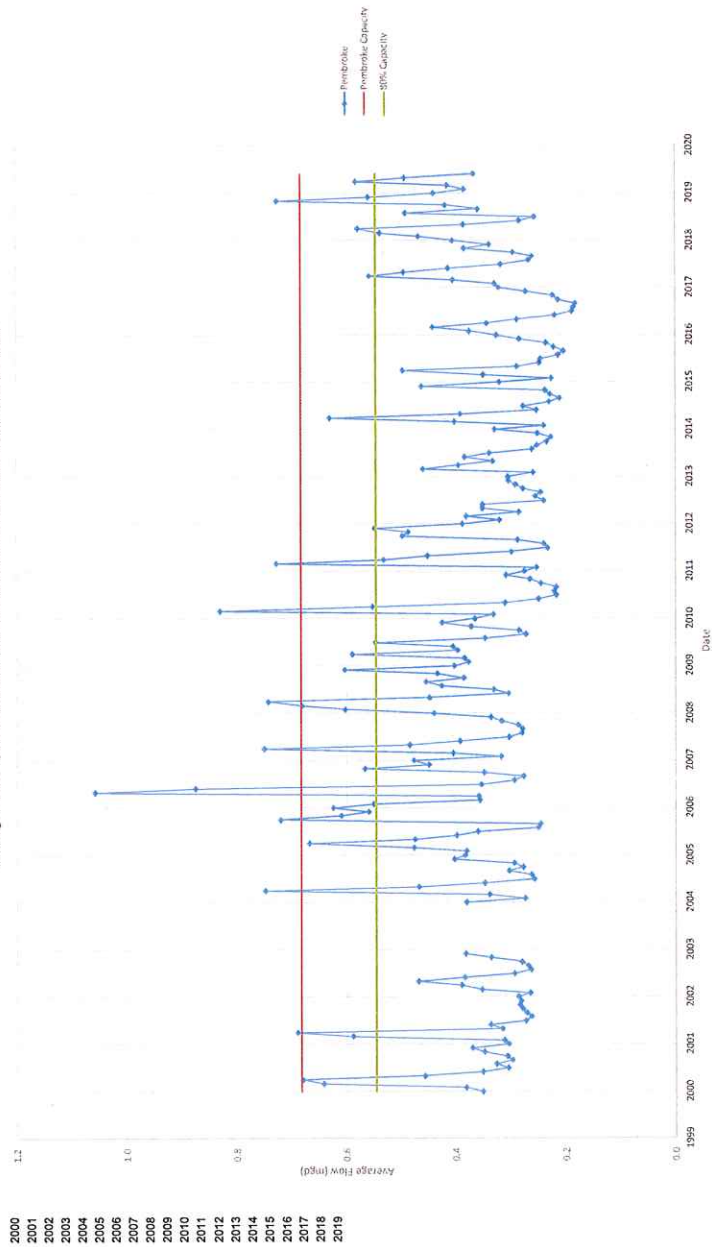


2008	May-08	0.4481	0.4035	0.8516	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1203	1.0086	2.1290	1.8712	1.6567	3.5278
2008	Jun-08	0.3040	0.2889	0.5929	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7600	0.7223	1.4823	1.4945	1.3111	2.8055
2008	Jul-08	0.3303	0.2662	0.5965	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8258	0.6656	1.4914	1.0825	0.9586	2.0410
2008	Aug-08	0.4262	0.3436	0.7698	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0656	0.8590	1.9245	1.0605	0.8987	1.9593
2008	Sep-08	0.4545	0.3664	0.8209	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1363	0.9159	2.0522	1.2110	0.9762	2.1872
2008	Oct-08	0.3855	0.3107	0.6962	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9638	0.7768	1.7406	1.2662	1.0207	2.2869
2008	Nov-08	0.4335	0.3335	0.7670	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0838	0.8338	1.9175	1.2735	1.0106	2.2841
2008	Dec-08	0.6035	0.4513	1.0548	0.6825	0.3675	1.05	0.546	0.294	0.84	1.5086	1.1283	2.6369	1.4225	1.0955	2.5180
2009	Jan-09	0.4028	0.3557	0.7585	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0069	0.8893	1.8962			
2009	Feb-09	0.3766	0.3205	0.6972	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9416	0.8013	1.7429	1.3915	1.2907	2.6822
2009	Mar-09	0.3847	0.3279	0.7127	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9619	0.8198	1.7817	1.1642	1.0042	2.1683
2009	Apr-09	0.5895	0.5398	1.1293	0.6825	0.3675	1.05	0.546	0.294	0.84	1.4738	1.3496	2.8233	1.3509	1.1883	2.5392
2009	May-09	0.3965	0.3858	0.7824	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9912	0.9647	1.9559	1.3707	1.2536	2.6244
2009	Jun-09	0.4055	0.3650	0.7705	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0138	0.9124	1.9263	1.3915	1.2907	2.6822
2009	Jul-09	0.5469	0.4409	1.0378	0.6825	0.3675	1.05	0.546	0.294	0.84	1.3672	1.2273	2.5944	1.3489	1.2417	2.5906
2009	Aug-09	0.3461	0.3569	0.7030	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8653	0.8923	1.7576	1.2985	1.2128	2.5113
2009	Sep-09	0.2723	0.2650	0.5373	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6808	0.6624	1.3432	1.1653	1.1128	2.2781
2009	Oct-09	0.2844	0.2505	0.5349	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7110	0.6263	1.3373	0.9028	0.8724	1.7752
2009	Nov-09	0.3722	0.2884	0.6606	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9304	0.7210	1.6514	0.9289	0.8039	1.7327
2009	Dec-09	0.4251	0.3715	0.7965	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0627	0.9287	1.9914	1.0816	0.9104	1.9920
2010	Jan-10	0.3650	0.3593	0.7648	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9125	0.9995	1.9120			
2010	Feb-10	0.3315	0.3517	0.7564	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8289	0.8792	1.8911	1.7136	1.5511	3.3750
2010	Mar-10	0.8803	0.8394	1.4697	0.6825	0.3675	1.05	0.546	0.294	0.84	2.0758	1.5985	3.6743	1.5269	1.3909	2.9909
2010	Apr-10	0.5517	0.5606	1.1488	0.6825	0.3675	1.05	0.546	0.294	0.84	1.3794	1.4001	2.8721	1.7136	1.5511	3.3750
2010	May-10	0.3105	0.3381	0.6486	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7762	0.8452	1.6215	1.6925	1.5375	3.2671
2010	Jun-10	0.2492	0.2670	0.5334	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6230	0.6675	1.3335	1.1114	1.1651	2.3308
2010	Jul-10	0.2168	0.2445	0.4613	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5419	0.6112	1.1531	0.7765	0.8496	1.6432
2010	Aug-10	0.2214	0.2294	0.4508	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5535	0.5735	1.1270	0.6874	0.7409	1.4455
2010	Sep-10	0.2168	0.2076	0.4385	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5419	0.5190	1.0963	0.6550	0.6815	1.3506
2010	Oct-10	0.2451	0.2253	0.4705	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6128	0.5633	1.1761	0.6833	0.6623	1.3598
2010	Nov-10	0.2653	0.2240	0.5056	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6632	0.5600	1.2640	0.7272	0.6569	1.4146
2010	Dec-10	0.3086	0.2341	0.5427	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7715	0.5853	1.3568	0.8190	0.6835	1.5188
2011	Jan-11	0.2754	0.2147	0.4901	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6885	0.5369	1.2263			

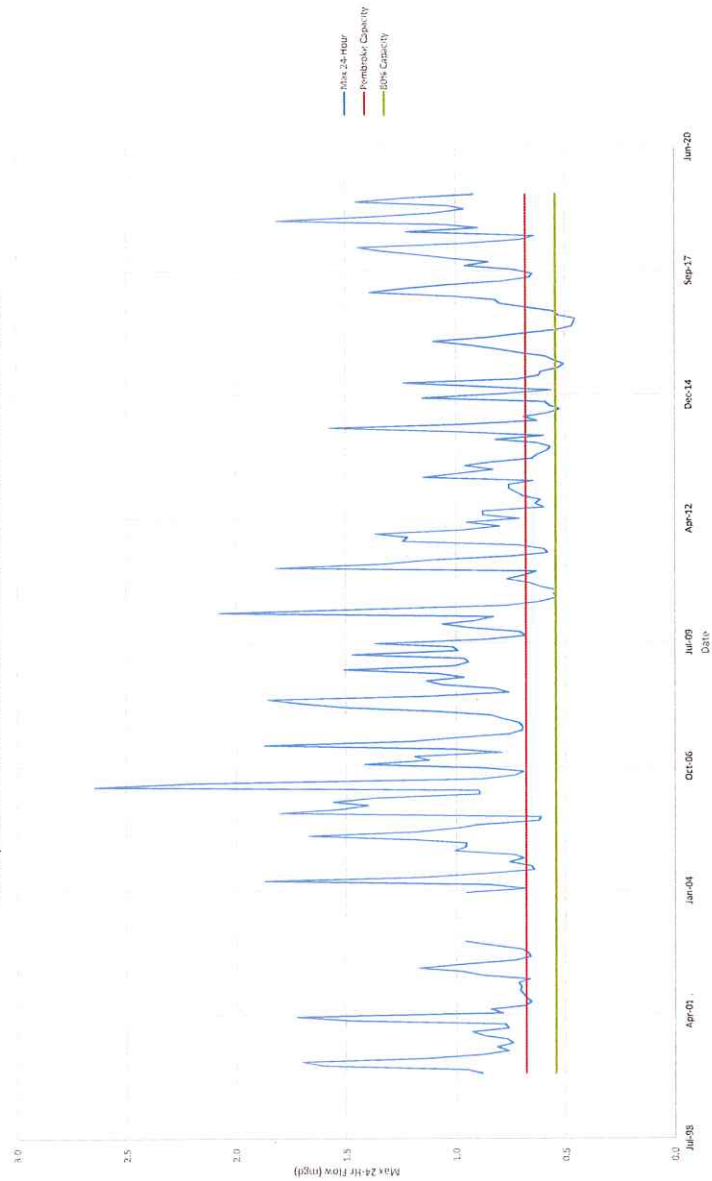


2011	Feb-11	0.2528	0.2119	0.5146	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6321	0.5298	1.2864	1.7104	1.4218	3.1645
2011	Mar-11	0.7274	0.5585	1.2919	0.6825	0.3675	1.05	0.546	0.294	0.84	1.8185	1.4112	3.2297	1.2556	0.9912	2.2966
2011	Apr-11	0.5315	0.4389	1.0018	0.6825	0.3675	1.05	0.546	0.294	0.84	1.3286	1.0950	2.5044	1.5117	1.2144	2.8082
2011	May-11	0.4515	0.4194	0.8709	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1288	1.0484	2.1772	1.7104	1.4218	3.1645
2011	Jun-11	0.2986	0.3230	0.6423	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7465	0.8074	1.6057	1.2815	1.1803	2.5149
2011	Jul-11	0.2328	0.2779	0.5107	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5821	0.6948	1.2769	0.9829	1.0202	2.0239
2011	Aug-11	0.2394	0.2685	0.5079	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5985	0.6711	1.2697	0.7708	0.8693	1.6609
2011	Sep-11	0.2869	0.2845	0.5904	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7173	0.7111	1.4761	0.7592	0.8308	1.6090
2011	Oct-11	0.4975	0.3765	0.8740	0.6825	0.3675	1.05	0.546	0.294	0.84	1.2436	0.9413	2.1849	1.0238	0.9294	1.9723
2011	Nov-11	0.4871	0.3606	0.8760	0.6825	0.3675	1.05	0.546	0.294	0.84	1.2178	0.9016	2.1901	1.2715	1.0216	2.3404
2011	Dec-11	0.5473	0.3811	0.9314	0.6825	0.3675	1.05	0.546	0.294	0.84	1.3683	0.9602	2.3285	1.5319	1.1212	2.6814
2012	Jan-12	0.3883	0.3236	0.7119	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9707	0.8091	1.7798			
2012	Feb-12	0.3199	0.2831	0.6446	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7998	0.7077	1.6115	1.0893	0.9065	2.0374
2012	Mar-12	0.3811	0.2997	0.6808	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9527	0.7494	1.7021	1.0893	0.9065	2.0374
2012	Apr-12	0.2848	0.2425	0.5449	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7121	0.6063	1.3623	0.9858	0.8254	1.8704
2012	May-12	0.3507	0.2765	0.6272	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8769	0.6911	1.5680	1.0167	0.8187	1.8530
2012	Jun-12	0.3509	0.2425	0.6132	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8773	0.6062	1.5330	0.9865	0.7615	1.7853
2012	Jul-12	0.2393	0.2152	0.4545	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5982	0.5379	1.1361	0.9410	0.7341	1.6948
2012	Aug-12	0.2555	0.2291	0.4846	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6388	0.5727	1.2115	0.8457	0.6867	1.5523
2012	Sep-12	0.2454	0.2110	0.4716	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6134	0.5276	1.1790	0.7402	0.6553	1.4107
2012	Oct-12	0.2775	0.1998	0.4772	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6936	0.4994	1.1931	0.7783	0.6399	1.4334
2012	Nov-12	0.2905	0.1992	0.5060	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7263	0.4979	1.2650	0.8133	0.6100	1.4548
2012	Dec-12	0.3045	0.2371	0.5415	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7611	0.5927	1.3539	0.8724	0.6360	1.5248
2013	Jan-13	0.3046	0.2204	0.5251	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7616	0.5510	1.3127			
2013	Feb-13	0.2593	0.1899	0.4973	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6482	0.4747	1.2432	1.1865	0.7742	1.9607
2013	Mar-13	0.4598	0.2648	0.7246	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1494	0.6620	1.8115	1.0237	0.6751	1.7469
2013	Apr-13	0.3946	0.2455	0.6613	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9865	0.6136	1.6533	1.1136	0.7001	1.8832
2013	May-13	0.3322	0.2426	0.5747	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8304	0.6065	1.4369	1.1865	0.7528	1.9607
2013	Jun-13	0.3839	0.2655	0.6711	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9598	0.6638	1.6778	1.1107	0.7535	1.9072
2013	Jul-13	0.3382	0.2661	0.6043	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8455	0.6653	1.5108	1.0543	0.7742	1.8502
2013	Aug-13	0.2615	0.2268	0.4883	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6539	0.5669	1.2208	0.9837	0.7584	1.7637
2013	Sep-13	0.2517	0.2281	0.4958	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6293	0.5703	1.2396	0.8515	0.7210	1.5885
2013	Oct-13	0.2347	0.2106	0.4453	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5869	0.5265	1.1133	0.7480	0.6655	1.4295
2013	Nov-13	0.2268	0.2006	0.4417	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5671	0.5015	1.1042	0.7133	0.6393	1.3828
2013	Dec-13	0.2514	0.2268	0.4782	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6285	0.5669	1.1954	0.7130	0.6379	1.3652
2014	Jan-14	0.3291	0.2521	0.5812	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8228	0.6302	1.4531			
2014	Feb-14	0.2397	0.2084	0.4961	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5993	0.5210	1.2403	1.4243	1.0016	2.4603
2014	Mar-14	0.4025	0.2912	0.6936	0.6825	0.3675	1.05	0.546	0.294	0.84	1.0061	0.7279	1.7340	0.9713	0.7516	1.7709
2014	Apr-14	0.6303	0.4093	1.0650	0.6825	0.3675	1.05	0.546	0.294	0.84	1.5758	1.0007	2.6624	1.2725	0.8998	2.2547
2014	May-14	0.3915	0.3102	0.7017	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9789	0.7754	1.7543	1.4243	1.0016	2.4603
2014	Jun-14	0.2527	0.2384	0.5075	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6319	0.5959	1.2687	1.2746	0.9488	2.2741
2014	Jul-14	0.2767	0.2507	0.5274	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6918	0.6268	1.3185	0.9210	0.7992	1.7366
2014	Aug-14	0.2305	0.2257	0.4562	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5761	0.5643	1.1404	0.7599	0.7148	1.4910
2014	Sep-14	0.2102	0.1966	0.4204	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5255	0.4916	1.0510	0.7174	0.6731	1.4040
2014	Oct-14	0.2286	0.1992	0.4278	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5715	0.4980	1.0694	0.6692	0.6215	1.3043
2014	Nov-14	0.2374	0.2036	0.4557	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5934	0.5090	1.1392	0.6761	0.5995	1.3038
2014	Dec-14	0.4619	0.3021	0.7640	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1548	0.7552	1.9100	0.9279	0.7049	1.6474
2015	Jan-15	0.3196	0.2569	0.5765	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7990	0.6422	1.4412			
2015	Feb-15	0.2258	0.1928	0.4634	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5644	0.4820	1.1586	1.1336	0.8377	1.9988
2015	Mar-15	0.3495	0.2625	0.6120	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8736	0.6563	1.5299	0.8948	0.7122	1.6519
2015	Apr-15	0.4963	0.3278	0.8516	0.6825	0.3675	1.05	0.546	0.294	0.84	1.2407	0.8196	2.1290	1.0715	0.7832	1.9270
2015	May-15	0.2878	0.2474	0.5352	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7196	0.6184	1.3380	1.1336	0.8377	1.9988
2015	Jun-15	0.2476	0.2176	0.4814	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6190	0.5441	1.2035	1.0317	0.7928	1.6862
2015	Jul-15	0.2449	0.2150	0.4599	0.6825	0.3675	1.05	0.546	0.294	0.84	0.6123	0.5375	1.1498	0.7804	0.6800	1.4765
2015	Aug-15	0.2135	0.1984	0.4119	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5337	0.4960	1.0297	0.7060	0.6310	1.3532
2015	Sep-15	0.2032	0.1882	0.4044	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5079	0.4706	1.0111	0.6616	0.6016	1.2762
2015	Oct-15	0.2215	0.1922	0.4136	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5536	0.4805	1.0341	0.6381	0.5788	1.2299
2015	Nov-15	0.2354	0.1922	0.4419	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5885	0.4806	1.1048	0.6600	0.5726	1.2600
2015	Dec-15	0.2836	0.2064	0.4900	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7090	0.5160	1.2251	0.7405	0.5908	1.3456
2016	Jan-16	0.3256	0.2312	0.5567	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8140	0.5779	1.3919			
2016	Feb-16	0.3747	0.2424	0.6831	0.6825	0.3675	1.05	0.546	0.294	0.84	0.9367	0.6059	1.7079	1.1589	0.7545	2.0258
2016	Mar-16	0.4415	0.2810	0.7224	0.6825	0.3675	1.05	0.546	0.294	0.84	1.1036	0.7024	1.8060	1.1417	0.7545	1.9623
2016	Apr-16	0.3427	0.1329	0.6203	0.6825	0.3675	1.05	0.546	0.294	0.84	0.8569	0.3323	1.5507	1.1589	0.6563	2.0258
2016	May-16	0.2884	0.1125	0.5225	0.6825	0.3675	1.05	0.546	0.294	0.84	0.7209	0.2814	1.3064	1.0725	0.5265	1.8652
2016	Jun-16	0.2196	0.1211	0.4462	0.6825	0.3675	1.05	0.546	0.294	0.84	0.5491	0.5303	1.1154	0.8507	0.4576	1.5890
2016	Jul-16	0.1882	0.2061	0.4472	0.6825	0.3675	1.05	0.546	0.294	0.84	0.4704	0.5153	1.1181	0.6962	0.5308	1.4159
2016	Aug-16	0.1855	0.2044	0.3899	0.6825	0.3675	1.05	0.546	0.294	0.84	0.4638	0.5109	0.9747	0.5933	0.6226	1.2833
2016	Sep-16	0.1825	0.1889	0.3838	0.6825	0.3675	1.05	0.546	0.294	0.84	0.4561	0.4723	0.9594	0.5561	0.5994	1.2209
2016	Oct-16	0.2131	0.1937	0.4816	0.6825	0.3675	1.05									

Average Monthly Wastewater Flow to Allenstown WWTP from Town of Pembroke



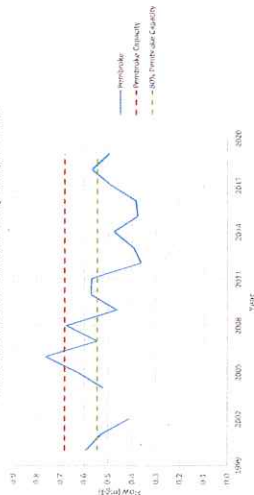
Monthly Maximum 24-Hour Wastewater Flow to Allenstown WWTP from Town of Pembroke



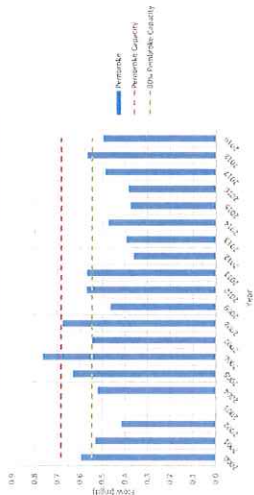


Year	3-Month Max Avg Daily Flow
2000	0.4140
2001	0.4140
2002	0.4140
2003	0.4140
2004	0.4140
2005	0.4140
2006	0.4140
2007	0.4140
2008	0.4140
2009	0.4140
2010	0.4140
2011	0.4140
2012	0.4140
2013	0.4140
2014	0.4140
2015	0.4140
2016	0.4140
2017	0.4140
2018	0.4140
2019	0.4140
2020	0.4140
2021	0.4140
2022	0.4140
2023	0.4140
2024	0.4140
2025	0.4140
2026	0.4140
2027	0.4140
2028	0.4140
2029	0.4140
2030	0.4140

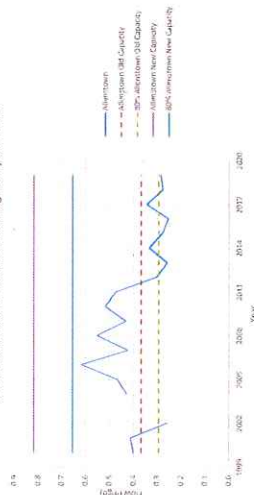
Pembroke 3-Month Maximum Average Daily WW Flow



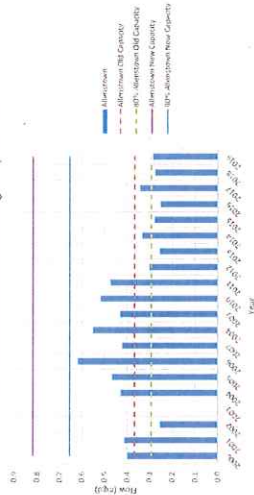
Pembroke 3-Month Maximum Average Daily WW Flow



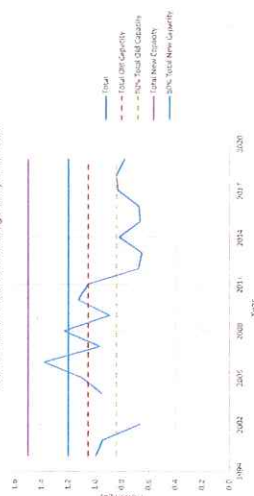
Allenstown 3-Month Maximum Average Daily WW Flow



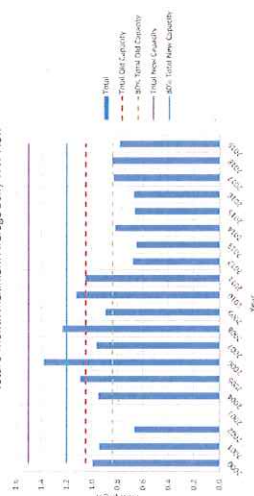
Allenstown 3-Month Maximum Average Daily WW Flow



Total 3-Month Maximum Average Daily WW Flow



Total 3-Month Maximum Average Daily WW Flow



Year	30% New	30% New	30% New
2000	0.4140	0.4140	0.4140
2001	0.4140	0.4140	0.4140
2002	0.4140	0.4140	0.4140
2003	0.4140	0.4140	0.4140
2004	0.4140	0.4140	0.4140
2005	0.4140	0.4140	0.4140
2006	0.4140	0.4140	0.4140
2007	0.4140	0.4140	0.4140
2008	0.4140	0.4140	0.4140
2009	0.4140	0.4140	0.4140
2010	0.4140	0.4140	0.4140
2011	0.4140	0.4140	0.4140
2012	0.4140	0.4140	0.4140
2013	0.4140	0.4140	0.4140
2014	0.4140	0.4140	0.4140
2015	0.4140	0.4140	0.4140
2016	0.4140	0.4140	0.4140
2017	0.4140	0.4140	0.4140
2018	0.4140	0.4140	0.4140
2019	0.4140	0.4140	0.4140
2020	0.4140	0.4140	0.4140
2021	0.4140	0.4140	0.4140
2022	0.4140	0.4140	0.4140
2023	0.4140	0.4140	0.4140
2024	0.4140	0.4140	0.4140
2025	0.4140	0.4140	0.4140
2026	0.4140	0.4140	0.4140
2027	0.4140	0.4140	0.4140
2028	0.4140	0.4140	0.4140
2029	0.4140	0.4140	0.4140
2030	0.4140	0.4140	0.4140



**George E. Sansoucy, PE, LLC**

Engineers & Appraisers

August 15, 2019

To: All PSNH Appeal Clients

RE: Project and Budget Status for the PSNH Appeals for 2014, 2015, 2016, and 2017 at the BTLA

Dear Client Community:

As of the enclosed July invoice, the final court-ready appraisals have been completed and submitted to the BTLA for the upcoming trial in November for tax years 2014, 2015, 2016, and 2017. The reports (including one hydroelectric value for the City of Berlin as part of these reports) comprise close to 300 separate appraisal years and values for PSNH for all of the communities combined. The report and all of its workpapers comprise approximately 60,000 pages of documents which develop and support separate appraisal valuations for transmission and distribution property in each of the communities by all three methods of value, namely, the cost approach, the market sales approach, and the income approach. In addition, as described below, a new method of value has been added to the reports and considered for these appeals.

As you know from Chris Boldt's and the other attorney's letters to you, our anticipated scope of work for this assignment was based on the outline of the previous trial where your values were upheld by the BTLA. Midstream in the preparation of these values, the BTLA changed its considerations as a result of the Northern Utilities gas line appeals. In addition to USPAP valuation modeling of the three separate approaches to value, we have been advised by your counsels to add a fourth complete valuation model utilizing a unit approach to value and developing a system to allocate portions of that value to each of our client communities for additional consideration by us and the Board when considering economic obsolescence. This additional methodology and new work scope have significantly increased our time and costs to prepare the court-ready appraisal. We have also been providing a significant amount of assistance to the attorneys with both staff and resources for research, document preparation, copying and a number of other requests to assist them due to the size of this project and the more limited resources generally found in a law firm.

The remaining tasks to complete these appeals are the following:

1. Continue to address, now that the reports are exchanged, the ever-increasing flow of documents into our office of changed information from PSNH correcting and changing errors that they originally provided to us for the report, requiring us to make changes in the report and changes in the values. For whatever reason, the information PSNH originally provided to us for these appraisals has been subject to a significant amount of change and

**George E. Sansoucy, PE, LLC**

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419 SE Main Street, Suite 201, Simpsonville, SC 29681 Tel 864.757.9575 [msansoucy@sansoucy.com](mailto:msansoucy@sansoucy.com)

Remittance Address 86 Reed Rd., Lancaster, NH 03584

2. correction over the period of time we have taken to develop the appraisal, creating the need to revise the values for some of the communities, and hence all the documents.
3. We now go into the period of preparing for depositions of their witnesses and of company fact witnesses as well as ourselves as required and selected by the attorneys representing each of you. Final deposition schedules and people have not yet been determined.
4. Approximately 30 – 45 days before trial is preparation for trial and assisting the attorneys, as requested, in their preparation for cross examination of company witnesses in this case. From our staff, we designate advocate witnesses for these activities. This generally also includes technical assistance for pre-trial and post-trial briefs, as requested by the attorneys.
5. The trial is scheduled for three weeks in November, which will include us as experts as well as our staff advocate witnesses participating and assisting the attorneys in managing the flow and extent of all of the documents that are necessary for this trial and these reports, which include 95 individual communities and four years of values.

Due to the change of scope necessitated by the extent of changes by PSNH and the new BTLA requirements, I now recommend that each of the communities budget an additional \$6,000 each in 2020 to complete this case, assuming it proceeds on the current schedule with the current scope of work outlined in this letter. There will be work performed in each month for the balance of this year. Communities are free to use whatever free cash they have to continue to pay their portion of the bills that come in over the next few months, or if they need assistance to move the remaining \$6,000 budget into bills rendered for payment after January 1, 2020, please do not hesitate to call my office. The final trial bill itself will not be issued until December, if everything stays on schedule, and will not be due and payable until calendar year 2020, but please do not hesitate to call me at 603-788-4000 to discuss any plan that you may need to extend the payment process into 2020 for the remaining bills after this July bill for the reports.

We will be contacting each of the communities to review the valuation numbers and the effect of the changes of methodology prescribed by the BTLA in the Northern Utilities case. We also anticipate giving you an overview of the changes required by the towns to comply with House Bill 700 going forward after 2019. My goal is either to meet with each of you in person, have one of my staff meet with you, or set up a teleconference with each of the selectmen in executive session as everyone starts coming back from summer vacation and settles in for the fall school season.

Thank you all for your support and patience with the courts, your attorneys, and ourselves in this complex matter and we look forward to communicating with you in the near future.

Very truly yours,

GEORGE E. SANSOUCY, P.E., LLC



George E. Sansoucy, P.E.

GES/lt

Enclosure



**RECEIVED**  
AUG 19 2019  
TOWN OF  
PEMBROKE, NH

**STATE OF NEW HAMPSHIRE  
PUBLIC UTILITIES COMMISSION**

**DG 19-074**

**LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.  
d/b/a LIBERTY UTILITIES**

**Petition for a License to Construct and Maintain a Natural Gas Pipeline  
Beneath the Soucook River in Concord and Pembroke**

**Order *Nisi* Granting License**

**ORDER NO. 26,284**

**August 8, 2019**

This order grants Liberty Utilities a license to construct and maintain a natural gas pipeline under the public waters of the Soucook River. This order is being issued on a *nisi* basis to ensure that interested parties receive notice and have the opportunity to comment or request a hearing before the order becomes effective.

**I. PROCEDURAL HISTORY**

On April 4, 2019, Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities (Liberty) filed a Petition pursuant to RSA 371:17 requesting a license to construct and maintain a natural gas pipeline under the Soucook River. On July 19, 2019, Liberty filed an amended petition. In support of its request, Liberty submitted a Gas Main Extension Overview Plan, Gas Main Extension Layout Plan, Gas Main Extension Profile Plan, and Construction Details. On July 1, 2019, Commission Staff (Staff) filed a memorandum recommending that the Commission grant the license subject to certain conditions.

The Petition and subsequent docket filings, other than any information for which confidential treatment is requested of or granted by the Commission, are posted at

<http://puc.nh.gov/Regulatory/Docketbk/2019/Docketbk/2019/19-074.html>.

## **II. SUMMARY OF PETITION**

Liberty currently operates a natural gas distribution main in the vicinity of Sheep Davis Road (NH Route 106) and North Pembroke Road in Concord. The proposed crossing will connect Liberty's distribution system at this location to two new customers located across the Soucook River in Pembroke.

### **A. Crossing Location and Construction**

The proposed crossing will be located on North Pembroke Road approximately 1,900 feet east of Sheep Davis Road (NH Route 106). The crossing will be constructed using horizontal directional drilling (HDD). The area drilled will be approximately 600 feet in length. The pipeline will be constructed using an 8-inch diameter plastic carrier pipe inserted into a 12-inch diameter plastic casing pipe. Approximately 75 feet of the new gas distribution main will be installed below the river. The casing pipe will be at least 15 feet below the river bed.

### **B. Regulatory Requirements**

According to Staff, although Liberty's Petition does not explicitly state that the requirements of N.H. Code Admin. Rules Puc 500 will be met, the Petition provides engineering details regarding material and selection of applied coatings that are consistent with the requirements of 49 CFR Part 192. After reviewing Liberty's Petition and attachments, Staff determined that, with certain conditions, the proposed crossing would be in compliance with the applicable requirements of N.H. Code Admin. Rules Puc 500 and 49 CFR Part 192.

Liberty will file an application for a Shoreland Permit with the New Hampshire Department of Environmental Services (NHDES) before construction of the pipeline. Liberty represented that a wetland permit is not required because the construction of the pipeline will not disturb wetlands.

### **C. Property Rights**

Liberty provided documentation to show that the gas distribution pipeline will be located under the bed of the Soucook River as well as under the eastern and western shores of the Soucook River. Liberty represented that, because all work will be confined to the public right-of-way, there is no need to acquire any other property rights.

### **D. Service to the Public and the Effect on Public Rights**

According to Liberty, the proposed construction and pipeline crossing will not substantially affect the rights of the public in the Soucook River because the crossing will be accomplished using HDD and the pipe will be at least 15 feet beneath the river bed. In addition, the entry and exit points of the directional drill will be no less than 200 feet from the east side of the river and no less than 300 feet from the west side of the river. The HDD process should have no impact on the river, and the new gas main will not impede use of the river or traffic. By installing the carrier pipe inside a casing, Liberty will be able to conduct maintenance on the distribution main by removing it from the casing without disrupting the river.

Liberty stated that construction of the new gas distribution main is necessary for it to provide natural gas service to Pleasant View Gardens.

## **III. SUMMARY OF STAFF REVIEW**

Commission Staff reviewed Liberty's Petition and supporting documentation, applicable statutes, rules, and the requirements of 49 CFR Part 192, ownership of the land, public need, safety, and impact. Staff determined that the proposed construction, with certain conditions, would meet the requirements of 49 CFR Part 192, applicable state statutes, and Commission rules. Staff recommended approval of the Petition with those conditions.

Staff recommended that Liberty be directed to construct, operate, and maintain the piping consistent with both Puc 506.02 and 49 CFR Part 192 requirements, and the North American Society for Trenchless Technology Horizontal Directional Drilling Good Practices Guidelines (4th edition). Staff recommended that Liberty be directed to operate and maintain the crossing in conformance with the latest 49 CFR Part 192 amendments. Staff believes that future alterations to the crossing that may impact the public should conform with the most current 49 CFR Part 192 amendments in effect at the time of submittal of the alteration. Staff recommended aboveground pipeline markers be required to identify the pipeline location, with appropriate warning and Company contact information on each side of the Soucook River crossing. Staff also recommended that the gas main be locatable for future excavations using a tracer wire or other suitable equivalent means.

With regard to the HDD process, Staff recommended continuous monitoring for possible hydro fracture during the HDD operation. Staff also recommended that Liberty be required to immediately implement containment measures if a hydro fracture occurs and, in that event, to notify the Commission Safety Division and NHDES. Staff also recommended that Liberty have clean up capability onsite in the event of a hydro fracture, prior to beginning the HDD operation. Last, Staff recommended that the approval be limited to a gas pipeline with the specifications proposed by Liberty in this docket.

According to Staff, the Soucook River in the vicinity of the proposed water crossing has been designated as public water, which must be managed in accordance with RSA Chapter 483, relative to the New Hampshire Rivers Management and Protection Program. Staff concluded that, if the regulatory requirements of 49 CFR Part 192 and Puc 500 rules are met, the proposed

natural gas pipeline will meet all current safety standards. *See* Staff Memorandum (July 1, 2019).

#### IV. COMMISSION ANALYSIS

“Whenever it is necessary, in order to meet the reasonable requirements of service to the public, that any public utility should construct a pipeline, cable, or conduit, or a line of poles or towers and wires and fixtures thereon, over, under or across any of the public waters of this state, or over, under or across any of the land owned by this state, it shall Petition the commission for a license to construct and maintain the same.” RSA 371:17. The Commission is authorized to grant such a license if it “may be exercised without substantially affecting the public rights in said waters or lands.” RSA 371:20. NHDES has classified the Soucook River as a “public water” under RSA 271:20.<sup>1</sup>

We find that the proposed crossing is necessary to meet the reasonable requirements of reliable service to the public, as required by RSA 371:17. We further find that the requested license may be exercised without substantially affecting the public rights in the Soucook River, as required for approval under RSA 371:20. Therefore, we approve the Petition subject to the conditions contained in the ordering clauses below. We issue our decision on a *nisi* basis to provide any interested person the opportunity to submit comments or to request a hearing.

This approval is only for the pipeline with the specifications proposed in this docket. Should Liberty seek further modification, it must make the appropriate filing. Liberty is responsible for obtaining any and all federal, state, or local permits required by authorities having jurisdiction for the construction and installation of the proposed crossing.

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<sup>1</sup> See [http://des.nh.gov/organization/divisions/water/dam/public\\_waters/index.htm](http://des.nh.gov/organization/divisions/water/dam/public_waters/index.htm); <https://www.des.nh.gov/organization/commissioner/pip/publications/wd/documents/olpw.pdf>.

We also require notice to be provided to the Town of Pembroke, the City of Concord, NHDES, the Office of the Attorney General, and owners of land bordering the crossing pursuant to RSA 371:19.

**Based upon the foregoing, it is hereby**

**ORDERED *NISI***, that subject to the effective date below, Liberty is authorized, pursuant to RSA 371:17, *et seq.*, to construct, install, operate, and maintain a single natural gas pipeline under and across the Soucook River as described in its Petition and depicted in its filings; and it is

**FURTHER ORDERED**, that the construction of the pipeline shall be implemented as depicted in the Petition documents; and it is

**FURTHER ORDERED**, that this approval is limited to the construction of a single natural gas pipeline under consideration in this docket, and is conditioned on the requirement that Liberty construct, operate, maintain, and, if necessary, alter the pipeline consistent with the provisions of N.H. Code Admin. Rules Puc 500, *et seq.*, 49 CFR Part 192, and the North American Society for Trenchless Technology Horizontal Directional Drilling Good Practices Guidelines (4th edition), as may apply, and as amended from time to time, and all other applicable safety standards in existence at that time; and it is

**FURTHER ORDERED**, that Liberty shall submit any future proposed alteration(s) to the crossing license granted herein at least 60 days prior to undertaking any such alteration(s); and it is

**FURTHER ORDERED**, that Liberty have clean up capability on site prior to commencing horizontal directional drilling, actively monitor for possible hydro fracture during the operation, immediately implement containment measures during any hydro fracture, and

promptly notify the Commission Safety Division and New Hampshire Department of Environmental Services of any hydro fracture; and it is

**FURTHER ORDERED**, that Liberty use above-ground markers to identify the pipeline, with appropriate warnings and Company contact information, on each bank of the crossing; and it is

**FURTHER ORDERED**, that Liberty install a tracer wire or other suitable equivalent means to easily locate the pipeline; and it is

**FURTHER ORDERED**, that Liberty shall provide a copy of this order to (i) the Town Clerks of Pembroke and Concord, New Hampshire; (ii) the New Hampshire Attorney General and all owners of the land bordering on said public waters at the location of the crossing, as required by RSA 371:19; and (iii) the New Hampshire Department of Environmental Services, by first class mail, no later than August 19, 2019, to be documented by affidavit filed with the Commission on or before September 5, 2019; and it is

**FURTHER ORDERED**, that Liberty shall cause a summary of this order, issued concurrently with this order, to be published once in a statewide newspaper of general circulation or of circulation in those portions of the state where operations are conducted, such publication to occur no later than August 19, 2019, and to be documented by affidavit filed with the Commission on or before September 5, 2019; and it is

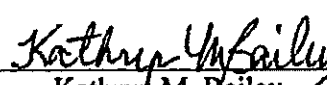
**FURTHER ORDERED**, that persons interested in responding to this order be notified that they may submit their comments or file a written request for a hearing that states the reason and basis for a hearing no later than August 26, 2019, for the Commission's consideration; and it is

**FURTHER ORDERED**, that any party interested in responding to such comments or request for hearing shall do so no later than September 3, 2019; and it is

**FURTHER ORDERED**, that this order shall be effective September 9, 2019, unless Liberty fails to satisfy the notice and publication obligations set forth above or the Commission provides otherwise in a supplemental order issued prior to the effective date.

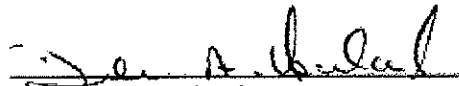
By order of the Public Utilities Commission of New Hampshire this eighth day of August, 2019.

  
Martin P. Honigberg  
Chairman

  
Kathryn M. Bailey  
Commissioner

  
Michael S. Giaimo  
Commissioner

Attested by:

  
Debra A. Howland  
Executive Director