# AGENDA BOARD OF SELECTMEN February 19, 2019 AT 6:30 PM TOWN HALL, PAULSEN MEETING ROOM

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- II. CITIZEN COMMENT
- III. SCHEDULED MEETINGS:

#### IV. OLD BUSINESS:

- a. 2016 Tax Deeds
- b. Street Light Update
- c. Future street light pole regulations
- d. Eversource energy costs

#### V. NEW BUSINESS:

- a. Appointments
- b. Sign Town Warrant
- c. Accept State MS-737 for posting
- d. Manifest/Abatements
- e. Minutes 2/4/19
- VI. TOWN ADMINISTRATOR REPORT
- VII. COMMITTEE REPORTS
- VIII. OTHER/CITIZEN COMMENT
- IX. NON PUBLIC SESSION
- X. ADJOURN

NAME	PROPERTY ADDRESS	MAILING ADDRESS	AMOUNT DUE THROUGH <u>5/9/2019</u>	FO Make
Tax Deed date is May 9, 2019				
Shari Baranski	235-10 Dearborn Road Pembroke NH 03275	235-10 Dearborn Road Pembroke NH 03275	299.30	266-76-110
Eric Baron	221 Friendship Ave Pembroke, NH 03275	221 Friendship Ave Pembroke, NH 03275	774.12	870-32-U10
Linda Beaudoin	190 Main Street Pembroke, NH 03275	190 Main Street Pembroke, NH 03275	2,984.28	VE-67
William Boutilier	1235-4 Dearborn Road Pembroke, NH 03275	1235-4 Dearborn Road Pembroke, NH 03275	649.41	266-76-104
Debra Carter	5 Kimball Street Pembroke, NH 03275	19 Level Street Merrimack, NH 03054	1,638.18	VE-147
George and Jillian Charlton****	465 Sixth Range Road Pembroke NH 03275	465 Sixth Range Road Pembroke NH 03275	130.79	260-6
George and Jillian Charlton****	465 Sixth Range Road Pembroke NH 03275	465 Sixth Range Road Pembroke NH 03275	8,496.54	260-6
George and Jillian Charlton****	465 Sixth Range Road Pembroke NH 03275	465 Sixth Range Road Pembroke NH 03275	7,489.95	260-6
Burton and Fernande Curley	761 Robinson Road Pembroke, NH 03275	755 Robinson Road Pembroke, NH 03275	399.23	256-3-3
Christopher Drouin	457 Carrie Ave Pembroke, NH 03275	455 Carrie Ave Pembroke, NH 03275	1630.99	563-79
Raylene Halen Cable	663-4 Thompson Road Pembroke NH 03275	663-4 Thompson Road Pembroke NH 03275	715.91	870-26-A-4

Todd Heger	2-4 Prospect Street Pembroke, NH 03275	225A Belknap Drive Pembroke, NH 03275	9894.14	76-WV
Nicholas Julian	235-3 Dearborn Road Pembroke NH 03275	235-3 Dearborn Road Pembroke NH 03275	710.77	266-76-103
John and Judith Mader	24 Kimball Street Pembroke, NH 03275	24 Kimball Street Pembroke, NH 03275	7058.11	VE-111
Louis Marcoux	6 Howard Street Pembroke, NH 03275	17 Oaks Drive Bedford, NH 03110-6031	2,490.52	VE-34
Bruce and Katherine Mcalister	41 Donna Drive Pembroke, NH 03275	41 Donna Drive Pembroke, NH 03275	2884.95	565-81-8
Owners Unknown *	Pembroke Street	311 Pembroke Street Pembroke, NH 03275	274.33	266-27-2
Owners Unknown *	Main Street Pembroke, NH 03275	311 Pembroke Street Pembroke, NH 03275	136.44	VW-114-1
Owners Unknown *	Broadway Pembroke, NH 03275	311 Pembroke Street Pembroke, NH 03275	209.91	VE-15-1
Kemberley Pelkey	212 Buck Street Pembroke, NH 03275	203 Loudon Road #823 Concord, NH 03301	464.58	266-129
Heather Shepley Trustee Leonard D Shepley Living Trust	807 Route 28 Pembroke, NH 03275	18297 E Baker Place Aurora, CO 80013	9,264.53	868-16
Ronald and Ralph Stweart	132 Tina Drive Pembroke, NH 03275	132 Tina Drive Pembroke, NH 03275	3,077.04	266-85-27
THC Realty Trust * Elliot Konner Trustee	Main Street Pembroke, NH 03275	PO Box 10545 Bedford, NH 03110-0545	2,023.26	VE-179-2

2,935.28 266-73	225.90 VE-179-1
34 Dover Street	116 So River Road Bldg A
Manchester, NH 03102	Bedford, NH 03110
307-2 Dearborn Road	Mills Fall Off
Pembroke, NH 03275	Pembroke, NH 03275
Lance Tremblay	Webster Falls Inc *

<sup>\*\*\*\*\*</sup> Bankruptcy was just terminated

\* Deed issues or contaminated land

## 2/11/2019

February 11, 2019

RECEIVED

FEB 13 2019

To: Town of Pembroke Select Board

Re: Deborah and William Burritt

PadDu Boloma PiF

We are asking that the interest on our tax payment please be waived. We purchased the property at 68 Sheep Davis Rd in Pembroke on 10/5/18. We were told at closing we would receive a tax bill in the mail. We never received a tax bill. We did receive a letter from our bank stating our taxes were past due during the week of February 4, 2019. After contacting the town, we noticed that the address was incorrect on the bill and was not that of our current address of 68 Sheep Davis Rd. We never received any mail from the town in regards to our current or past due taxes. Moving forward we are not ones to pay our taxes late. Please take this into consideration and waive the interest fee.

Thank you,

Deborah and William Burritt

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FEB - 8 2019

FEB -8 2019

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Over the last few weeks, I have Twice experienced excess water drainage into my drive way. The Levels exceed that we have seen in the hast twenty Yezrs. If this continues it could evode the house foundation requiring significant demage and repair costs.

A view of the neighborhood shows the same excess water over large eress of Land. It we get greater Snow fall or rain, I worry about our gurrival.

This being a new happening I poticed a new drainage pipe egressing the old stone wall, south of 7 old Beer Brook Rdus This drainge was grigiosly north of the property but as I andestandit, it was on property owned by the augupents of 5 OLD Bear Brook Ad. and it was forced to move to its present Location.

I therefore request your immediate attention, and subsequent action. The soled that approximately a 50 foot right of way exists Leading to the western Buck St. dam, now removed. This ever could provide land for drainage 25 it is now redundant. Please 2d Hise Soon Dave Holard Dave Plubards CCH1 389-8632 ce; Selectman 

#### **David Jodoin**

From:

Wickens, Sharon <SWICKENS@manchesternh.gov>

Sent:

Friday, February 08, 2019 11:35 AM

To: Cc: 'Gerard Fleury' David Jodoin

Subject:

RE: Opportunity knocks.

I will just sit tight and stay tuned.

Have a great weekend!

Sharon

From: Gerard Fleury [mailto:gfleury@manchesterretirement.org]

**Sent:** Friday, February 08, 2019 11:25 AM

**To:** Wickens, Sharon **Cc:** David Jodoin

Subject: RE: Opportunity knocks.

Sharon,

I will relay your interest to Town Administrator David Jodoin with my recommendation. I believe at that point the Selectmen will appoint you. Your term will begin in March and run for one year. If you like the post after the year is up. Your name will go on the ballot to complete the balance of a three year term.

Gerry

From: Wickens, Sharon <SWICKENS@manchesternh.gov>

Sent: Friday, February 8, 2019 11:12 AM

To: Gerard Fleury <gfleury@manchesterretirement.org>

Subject: RE: Opportunity knocks.

Hello Gerry,

Sure, I would be happy to serve as a trustee for the town of Pembroke. What do I need to do?

Sharon

From: Gerard Fleury [mailto:gfleury@manchesterretirement.org]

Sent: Friday, February 08, 2019 10:15 AM

To: Wickens, Sharon

Subject: Opportunity knocks.

Hello Sharon,

As you may be aware, outside of my life as the Executive Director for MECRS, I am also Chair of the Pembroke Trustees of Trust Funds. One of our trustees decided not to seek re-election after many year in that office and nobody has filed to be on the ballot this coming March to fill the vacancy. As a fellow resident of Pembroke, would you consider accepting an appointment by the Selectman as a trustee for the town?

Gerard E. Fleury - Executive Director

Manchester Employees' Contributory Retirement System 1045 Elm Street - Suite 403 Manchester, NH 03101-1824

Tel. 603-624-6506



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## Town of Pembroke Roads Committee

8 Exchange Street, Pembroke, NH 03275

To:

Board of Selectmen

CC:

David Jodoin

CC:

Planning Board

From:

Roads Committee

Date:

February 6, 2019

Re:

Robinson/Fourth Range Road project

The Roads Committee recommends to the Board of Selectmen that it appears that all of the road and drainage conditions required by the Roads Committee are being addressed in the subdivision plan and that they can move forward.



(603) 413-6650

#### **BID TAB**

Project: 4 and 6 Union Street Project - Pembroke, NH

Bid Date: January 30, 2019

	Advanced Excavating and Paving, LLC	Jeremy Hiltz Excavating, Inc.	Greene and Russell, Inc.
Lump Sum Item 1 - Parking Lot 6 Union Street	\$107,220	\$137,320	\$176,000
Lump Sum Item 2 - Retaining Wall Construction 4 Union Street	\$177,800	\$174,210	\$189,000
TOTAL	\$285,020	\$311,530	\$365,000

#### BOARD OF SELECTMEN TOWN OF PEMBROKE, NH JANUARY 22, 2019 at 6:30 PM

#### DRAFT

Present: Chairperson Tina Courtemanche, Selectman Ann Bond, Selectmen Vincent Greco, Selectmen Sandy Goulet

Staff: Town Administrator David Jodoin, Recording Secretary Jillian McNeil

Excused: Selectman Michael Crockwell

#### I. Call to Order:

Chairman Tina Courtemanche called the meeting to order at 6:30pm.

#### II. Citizen Comment:

None

#### III. Scheduled Meetings:

Chris Arrigo, Michael Arbo, and Jesse Hall were present to discuss the request of the SNH Off-Road ATV/UTV group to organize and use the town's Range Roads. Chris gave an overview of what the ATV group is looking to accomplish. They would like to organize a club to properly sign the roads, maintain the roads, and enforce the rules of the roads. Michael stated some of the issues they have found are riders riding on private property and discharging weapons. Chris stated that once the club gets the permission from the Town to organize, they would go to the state and begin the process of officially becoming a recognized club and that would bring the state's insurance policy to the trail network. This would change the Town's liabilities.

Selectman Greco made a statement that he feels that when there is club member presence on the trails, the trails become safer and cleaner. He also stated that is a big issue when people bring Jeeps and trucks out "mudding" on the roads and the destruction it causes. Chris stated there wouldn't be much the club could do to curtail that since the roads are currently class 6 town roads. David Jodoin stated that there are seasonal weight limits of 1,800 lbs. David asked for the typical weight of a side by side. Chris stated around 1,200-1,500. David asked what the clubs version of "Patrol" was. Chris stated that clubs typically have trail patrol and they would mark their ATV's trail patrol. He feels that the majority of riders will naturally slow down when they see people coming the other way, especially on a marked machine. The club members have pledged to have someone out there almost daily.

Selectman Greco asked about the 4-wheelers on the snow mobile trails. Chris stated they are open to having the Range Roads open year-round but that would require further discussion. Jesse stated that in the southern part of the state, the snow is not year-round which allows for riding most of the year.

Michael stated that the speed limit on trails is 25 -35 mph. Lieutenant Adam Cheney, NH Fish & Game, stated that regardless if the trail is posted or not, the maximum speed for an OHRV on a class 6 road is 35 mph. A 4-wheeler can only go as fast as it is reasonable and prudent for existing conditions. Michel stated without signage, there is no perceived speed limit.

Selectman Bond asked if the club is aware of the proposed development that will extend onto 4<sup>th</sup> Range Road. They stated that they were aware but there is plenty more land out there. Jesse stated that they plan to go trail by trail and look for ways to manage water diversion, add culverts, and manage the trails. David Jodoin stated that the Town cannot provide any funding for the roads and that the roads would have to passible for emergency vehicles. Jesse stated that they are aware of that and once they have the permissions to go ahead with the project, they will apply for grants from the state to assist in these projects. Jesse stated that the goal is make the majority of the roads passible by removing the swamps and brooks that go through the trails.

Selectman Courtemanche asked for clarification on the statement of not having swamps and brooks out there. Jesse clarified that he meant in the middle of the trail. They are not touching any of the wetlands or going beyond the trails themselves. The trails have eroded over the years and they want to rebuild them. They want to control the silt and sediment running off the roads. They plan to build ditches along the sides of the roads.

Pembroke Police Chief Dwayne Gilman and Fish & Game Lieutenant Adam Cheney discussed their concerns for the Town allowing the club to open the Range Roads. Chief Gilman expressed that there is enforcement out on the Range Roads but what happens on the main roads of the Town takes priority with the Department. Opening the roads brings more people which will add to the local economy but more people will also mean an increase in any safety issues. The Chief has concerned for the noise level of the machines. Parking will be an issue at any entrance point to the Range Roads. At any given point, there is only room for 1-2 trailers. Chief Gilman spoke to the State of New Hampshire about parking at the lot near maple grove campground. The State stated they are unaware of the amount of people currently using that parking lot and they are discussing now if they are going to continue to allow the people who currently use the lot to continue never mind any additional parking. This will add enforcement issues to the Pembroke Police Department if the State says they cannot use the lot. They cannot park at Bear Brook if they have to travel in a public road way to get to the Rand Roads. ATV's are not allowed on public roadways. David asked if side by sides are allowed on the public road ways. Lt. Cheney states that right now, Rt. 28 is not a legal crossing. The State would need

to come out and survey the road, do a traffic study, and then they would need to sign it at the official crossing point. It is a liability for the Town and the State to make these crossings.

Lt. Cheney discussed his experiences with the opening of the trails in Pittsburg and Colebrook. He stated that he covers District 5 which covers 44 towns and around 600,000 people. He has a total of 3 officers to cover all of the search and rescues and other fish and game responsibilities. There will not be more enforcement for the Range Roads if the roads are opened up. There has been an increase in complaints along the power lines and Cross Country Road from riding. He does not recommend allowing night time riding. He recommends that the club joins the New Hampshire Off Highway Vehicle Association (NHOVA). Fish & Game currently gives out grants to local law enforcement for aid in enforcing the trail systems. There are concerns for EMS and the town will likely have to buy some sort of rescue vehicle for injuries that require spine stabilizations. Lt. Cheney stated that side by sides are noisy and there will be a lot of complaints.

Brian Lemoine, Resident, asked if it is advantageous for the Town to grant this club permission. Lt. Cheney stated that it is. He just wants to make sure there is a complete picture of what Fish & Game is capable of in regards to enforcement.

Lt Cheney reiterated that the club should get in touch with NHOVA and not have riding after dark. They will also need to get permissions from land abutters to use the trail system. This created an issue up North where permission wasn't granted and they opened up Town roads so people could go around the private property. When Town roads are opened up, per the State RSAs, it wipes any liability from the Fish & Game and puts it on the Town. This also means that there can be a 14-year-old riding on a Town Road which can be a liability.

Justin Colvin, Trail Master SNH Off-Road ATV Club, stated that since there cannot be anyone out there patrolling, wouldn't it be helpful to have the club presence. Lt. Cheney said definitely and he would recommend getting matching vests that say trail patrol as well as marking the machines.

Selectman Bond and Selectman Courtemanche asked if the Town could post signs and time limits for night riding. David said that the Town can set a local ordinance. Lt. Cheney said that they would recommend either a half hour after sunset or no riding after dark. The club can make the rules as well and would recommend getting help from NHOVA on that. Chris Arrigo stated that once they become an official club, they will get in touch with NHOVA but since they do not have an official trail network, they haven't taken that step.

David Jodoin asked if they believe the Range Roads would draw a large crowd. Lt. Cheney stated that he thinks they will. Michael Arbo stated that the riding is already happening and there isn't any structure and organization to it. That is what the club is hoping to accomplish.

Selectman Bond asked if having a club puts any limits on the Town's authority. Lt. Cheney stated that any law enforcement can enforce the Fish & Game laws and vice versa. The only laws that Fish & Game cannot enforce and the local police can, are town or city ordinances.

Selectman Bond asked if even with a club, if an issue presents itself in a year or so, can the Range Roads be closed back down. Lt. Cheney stated they can put a probationary period on the club to see if it is working or not. He recommends at a minimum, a probationary period should not be less than one year and maybe even two years since it will take a while for the club to get up and running.

Chief Gilman asked how many abutters have been notified. David stated that the hearing notice went out as a public hearing in the paper and on the website but not individual notices. Lt. Cheney suggested also discussing it at Town Meeting.

#### Public hearing opened at 7:17 p.m.

Bill Conn, Resident, expressed concerns for placing the trails on maps leading to the town being overwhelmed with machines and parking issues being created.

Ed Kenny, Resident, stated that the Snowmobile Club has spent \$10,000 in the last two years fixing up the Range Roads for their club. He worries about further damage to the roads when trucks are already causing so much. He also states that snowmobiles go away after 8-10 weeks, ATVs will be a year-round. He also noted that he is constantly applying for grants to put in culverts and they are consistently denied. Lt. Cheney recommended setting a season to avoid having activity on the roads during mud season. Memorial Day – Labor Day is a common season.

Wendy Weisiger, Resident and Conservation Commission Member, stated her support for the club and their intentions but that she also concerns. Wetland permits are being reviewed and it is not going to get simpler to get them. The majority of the roads are on wetlands which means getting the permits for the culverts will likely be very difficult. While there has been a boom lately in people getting outside and using side-by-sides and OHRVs, the old road beds that are commonly found in New Hampshire are not designed, maintained, or built to withstand the kind of abuse they are taking. Wendy recognizes that the roads are already out on the internet and people can already find them and the club is doing a great job of recognizing the need for protection and being proactive in cleaning up trash but it is only going to get harder with an influx of use. There is an inability of Fish & Game to enforce the area. This is going to fall on the backs of the Pembroke Police Force and the Town Hall to field resident complaints. The Town will have to work with the club to ensure everything is executed properly. The Town should outline expectations, what the town wants for outcomes, an appropriate timeline, and how the club can successfully reach those outcomes. They will need oversight from various Town Departments.

#### Public hearing closed 7:28 p.m.

It was the decision of the Board to notify the abutters and anyone effected by the trail system and have another public hearing.

#### IV. Old Business:

None

#### V. New Business:

Selectman Bond made a motion to appoint Timothy Goldthwaite as a full-time member to the Planning Board to replace Richard Bean. Selectman Goulet seconded the motion. Motion passed 4-0

Selectman Bond made a motion to appoint David Baril Jr. as an alternate to the Conservation Commission. Selectman Goulet seconded the motion. Motion passed 4-0

Selectman Greco moved a motion to accept the donation of \$5,000 from Continental Paving on behalf of the Recreation Commission in accordance with RSA 31:95-b. Selectman Bond seconded the motion. Motion passed 4-0

Selectman Goulet moved to approve the Manifest/Abatements as presented. Selectman Greco seconded the motion. Motion passed 4-0.

Selectman Greco moved to approve the minutes of January 7, 2019 as presented. Selectman Bond seconded the motion. Motion passed 3-0. Selectman Goulet abstained.

#### VI. Town Administrator Report:

Carol Bertsimas, Vice Chair Conservation Commission, in 2012 the Town acquired I #260-41ot on 6<sup>th</sup> Range Road through donation from owner. The abutting lot 260-42 became property of the town by tax collectors deed. Back in 2015, the Conservation Commission made an offer to purchase the property. Last March, the Town adopted an article that the Board is required to offer property like this to the Conservation Commission before trying to sell it. Selectman Goulet asked if this piece of property would qualify for that since the town acquired the property in 2015. David stated that the piece was deeded in 2012 but they held it for three years because if they town holds any property for three years; the town retains any profit at the sale. If it sells the property before that, the last known owner gets the difference. Selectman Goulet asked what the offer was. Carol answered it was \$5,000 for 5.6 acres which covered expenses. David stated it is on a class 6 road, not near an entrance, and is not developable unless the road is brought up to town specifications. Selectman

Bond asked what the total acreage that the Conservation Commission currently has. Carol answered it is 3-4% of total town land but is not sure what the exact acreage is. Carol and the Commission are looking to see if there is anything that can be done to push the project forward. Selectman Goulet requested additional time to research. Selectman Courtemanche asked if there was any additional interest in the property. David answered that there is not. Selectman Courtemanche stated that they will grant Selectman Goulet the time to research and will revisit this at the February 4<sup>th</sup> meeting and if needed, then they will carry it to the February 19<sup>th</sup> meeting. Carol agreed to come back with the exact acreage the Commission currently has.

Selectman Goulet suggested pushing the ATV club meeting to March 4<sup>th</sup> meeting to allow enough time for the abutters to be notified and so there is a full Select Board available.

David stated that he received an email to dedicate the Town Annual Report to Patricia Crafts who passed away last year. Selectman Greco made a motion to dedicate the Town Annual Report to Patricia Crafts, Selectman Goulet seconded the motion. Motion passed 4-0

David received a letter from the State of New Hampshire stating that the engineer review study for the North Pembroke Road Bridge is found to be acceptable. Total estimate of the project is \$2,056,055. The state will cover 80% and the remainder will be \$30,000 for Concord and the balance will be Pembroke's because the City of Concord will be managing the project with their staff. Pembroke's portion is roughly\$385,000 and there is currently enough money to cover the project from encumbered funds over the last two years.

David stated that the Barrington letters went out and the deeding letters went out to the property owners and mortgage companies. There are 26 people on the deeding list. Selectman Goulet asked if that amount is common. David stated that it is and 6 out of the 26 are new to the list this year. They will have until May 9<sup>th</sup> to pay. The Board will receive annual updates.

#### VII. Committee Reports:

Selectman Bond – For the street light conversion project, there are still no costs from Eversource on the corrections they need to make. Ann stated that the Meadows View development is proposing a Mason's Way and the Town already has a Masons Avenue. David stated it was brought up at the TRC meeting and they were told they would need to change the name. Ann asked if there was an ordinance for driveway size when there is a shared driveway. The development is a proposing a few shared driveways. David stated that the Police and TRC Board are not in favor of the shared driveways but that will be a discussion to have with the Planning Board. Ann stated that the other concern is they want to do open drainage. David stated that it is being discussed with the Roads Committee and the Planning Board. The developers are requesting to be on the agenda for February 4<sup>th</sup> to discuss the opening of the road and

the subdivision. Selectman Bond stated another concern is the four retention ponds. David answered that historically retention ponds have ended up the Town's responsibility. She also stated that there is a request to the Selectmen to adopt a standard for street lights by the Planning Board.

Selectman Greco - None

Selectman Courtemanche – The Budget Committee went over more of the School Budget. Dan Crean presented a list of \$212,000 worth of cuts. The next meeting is Thursday, January 24<sup>th</sup> to go over the Town and School warrant articles.

Selectman Goulet - None

The Next Selectmen's meeting will be February 4, 2019 at 6:30 at the Town Hall.

#### VIII. Other/Citizen Comment:

None

#### IX. Non-Public Session:

Motion by Selectman Goulet to enter non-public session in accordance with RSA 91-A:3 II (c). Matters which, if discussed in public, would likely affect adversely the reputation of any person, other than a member of the public body itself, unless such person requests an open meeting. This exemption shall extend to any application for assistance or tax abatement or waiver of a fee, fine, or other levy, if based on inability to pay or poverty of the applicant, at 7:58 PM. Seconded by Selectman Bond.

#### Roll Call Vote

Chairman Courtemanche	Yes
Selectmen Greco	Yes
Selectmen Goulet	Yes
Selectmen Bond	Yes

The Board came out of non public session at 8:10 PM.

Motion by Selectman Goulet to enter non-public session in accordance with RSA91-A:3 II b Hiring, seconded by Selectmen Bond.

#### Roll Call Vote

Chairman Courtemanche	Yes
Selectmen Greco	Yes
Selectmen Goulet	Yes

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Yes

The Board came out of non public session at 8:18 PM.

#### X. Adjourn:

Motion by Selectmen Goulet to adjourn at 8:19 PM seconded by Selectmen Bond. Motion passed.

Justine M. Courtemanche, Chairman

For more detailed information, the meetings are now taped and can be seen on <a href="https://www.townhallstreams.com">www.townhallstreams.com</a> click on Pembroke NH and look for the day of the meeting under the month.

### Spreadsheet Report Pembroke Village Demo 1-2

Page 1 1/23/2018 12:25 PM

Project name Pembroke Village Demo 1-2

Estimator RBurke

Labor rate table NH

> Job size 34183 sf

Duration 6 wks

Bid date 1/23/2018

Sorted by 'Group phase/Phase' 'Detail' summary Report format

Group	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Cost/Unit	Material Amount	Sub Price	Sub Amount	Sub Name	Total Cost/Unit	Total Amount
1000		GENERAL CONDITIONS										
	1100	Superintendent										
		Superintendent	6.00 wk	3,200.00	19,200		-				3,200.00	19,200
	1110	Layout Engineer										
		Layout Engineer	1.00 wk	2,000.00	2,000				-		2,000.00	2,000
	1140	Proj. Management										
		Project Manager	1.00 wk	3,200.00	3,200	-	-				3,200.00	
		Asst. Project Manager	1.00 wk	2,000.00	2,000	-	-		-		2,000.00	2,000
	1158	Laborer Foreman										
		Laborer Foreman	2.00 wk	2,320.00	4,640	-	-		-		2,320.00	4,640
	1310	Temp. Fences										
		Temp. Fences	1,000.00 Inft	-	-						6.00	
		Gates in Temp Fence	2.00 each	-		-	-	500.00	1,000		500.00	1,000
	1320	Safety										
		Safety Inspections	10.00 hrs			-	-				125.00	
		First Aid Kit	1,00 ls	4			-				500.00	
		First Aid Kit Refills	2.00 mnth	-	-	•		50,00	100		50.00	100
2000		EXISTING CONDITIONS										
	2030	Demolition										
		Demolition	34,183.00 sf					5.15	176,042		5.15	176,042
	2035	Asbestos Removal										
		Asbestos Removal	1.00 ls	-	-	-		40,000.00	40,000	Allowance	40,000.00	40,000
220000		PLUMBING										
	220100	Plumbing										
		Plumbing - make safe	1.00 ls		-	-	-	2,500.00	2,500		2,500.00	2,500
230000		HVAC										
	230100	HVAC										
		HVAC - make Safe	1.00 ls	-	-			3,500.00	3,500		3,500.00	3,500
260000		ELECTRICAL										
200000	260100	Electrical										
	200100	Electrical make safe/temp electric	1,00 ls					5,000.00	5,000		5,000.00	5,000
310000		EARTHWORK	1,00 10									
310000	240200											
	312200	Grading Rough Grading	24,088,00 sf					1.25	30,110		1,25	30,110
		Import Common Borrow for Rough Grade	1,321.00 cy								18.50	
		(vasement 2972 x10/27 x 1.25 = 1,321 cy	1,321.00 Gy					10.00	24,435		10.50	24,455
	312500	Erosion and Sedimentation Controls										
		Hay Bales & Silt Fence	1,000.00 If		2.5			5.00	5,000		5.00	5,000

Harvey Co	onstruction
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### Spreadsheet Report Pembroke Village Demo 1-2

Page 3 1/23/2018 12:25 PM

#### **Estimate Totals**

Performance & Payment Bond	2.907		8	0.085 /sf	0.82%
Builders Risk Insurance	528	1.500 \$ /	1.00D T	0.015 /sf	0.15%
General Liability & Umbrella P	2.449	0.695 %	T	0.072 /sf	0.69%
CM Fee %	19.942	6,000 %	т	0.583 /sf	5.66%
Total	3	352.307		10,306 /sf	

#### CODE REVIEW

Pembroke Village School 30 High St Pembroke, NH 03275 October 24, 2017

Current New Hampshire Building Code

Administration of Minimum Standards in PUBLIC SCHOOLS - Chapter 300
International Building Code 2009 except for egress which is NFPA 101 2015
International Existing Building Code 2009
International Plumbing Code 2009
International Mechanical Code 2009
International Mechanical Code 2009
International Ferrory Componenties Code 2009 International Energy Conservation Code 2009 National Electric Code 2014 State Fire Code SAF-C 6000

#### GENERAL BUILDING INFORMATION

LEVEL	EXISTING (SF)
1st Level (1951 basement)	3,113
2 <sup>nd</sup> Level (main / ground)	24,010
3rd Level (1907 second EL)	3,697
Ath Level (1907 third EL)	3,697
TOTAL	34,517

Existing Height: 55 feet, 4 story ( 3 above grade)

Existing Construction:
- 1951 and 1957 wings: Type IIIB Masonry Exterior, combustible interior and roof framing, unsprinklered,
- 1907 building: Type IIIA Masonry Exterior, combustible interior and roof framing, sprinklered

IEBC Level 2 Alteration (Level 3 Alteration -50%+ work area - requires fire sprinkler)

Current School Population: Staff: 38 Students: 126

		NFPA 101 / NH			
TOPIC	IBC / IEBC	300 Ed. Spec.	Description	Compliance	
USE / OCCL	IDANCY				
00270000	IBC 305.1	101: 6.1.3.1	E Education		K - G1 public school, preschool
			Classrooms (sf)		8,820
			Shop/Lab/vocation rooms (sf)		3,437
	IBC 303.1, except. 4		Assembly use in Education is an accessory use (Gym (sf))		3,400
	IBC 410.1		Stage (sf)		1,300
	IBC 311.3		S-2 Storage (sf) on 1st Level (NOT Accessory)		1,785
	IBC 508.2	101:6.1.14.1.3 (1)	Accessory Occupancies: Non-separated; less than 10% of st	tory area	
			2nd Level (10% = 2,401 sf)		
			S-2 Storage (sf)		390
			B Business (sf)		1,098
			TOTAL (sf)		1,488
			3rd Level (10% = 370 sf)		
			S-2 Storage (sf)		213
			B Business (sf)		0
			TOTAL (sf)		213
			4th Level (10% = 370 sf)		1
			S-2 Storage (sf)		0
			B Business (sf)		132
			TOTAL (sf)		132
	IBC 1004,11	101:7.3.1.2	Occupant Load:		Occupants:
			Classroom (sf per occupant)	20	441
			Shop/Lab/vocation room (sf per occupant)	50	69
			Gym (sf per occupant)	7	486
			Stage (sf per occupant)	15	87
			S-2 Storage - Accessory (sf per occupant)	500	1
			S-2 Storage - Non Accessory (sf per occupant)	n/a (max probable)	5
			B Business (sf per occupant)	100	12
			Library (reading) (sf per occupant)	50	15
		NH Ed. Spec. 321.09	Classroom size		
		тител. ород. од по			Not compliant but If Switch K and first grade: 850 sf with max
			Kindergarten	1000 sf or 50 sf/child (which ever is greater)	class size of 17 Not compliant but If Switch K and first grade: 612 sf with
			Elementary	900 sf or 36 sf/child (which ever is greater)	max class size of 17
HEIGHT & A	REA LIMITATIONS				
	IBC 503		Allowable Height: 2 Stories and 55 ft above grade		55 ft in height, SEE 504.2 stories above grade
			At: Allowable area per story: 14,500 sf		see 506.1 for area per story
	IBC 504.2		Increase for sprinkler: +1 story, +20 ft in height	2+1	3 stories above ground (1907 wing: sprinkler protected)
			Area Increase: Aa = {At +[At x If] + [At x Is]} (Aa = Allowable building area per story (square feet).		
			At= Tabular building area per story in accordance with Table		
			503 (square feet): 14,500 sf		1
			If = Area increase factor due to frontage as calculated in		
			accordance with Section 506.2.		
	120-200-1		Is= Area increase factor due to sprinkler protection as calculated in accordance with Section 506.3.	51,777	all stories are less than this allowed increased area, BUT Automatic sprinkler system required through out 1
	IBC 506.1		Calculated in accordance with Section 506.5.	01,711	ratemane springer system requires anough out



TORIC	IBC / IEBC	NEPA 101 / NH			Compliance
TOPIC	IBC / IEBC	300 Ed. Spec.	Description		Compilative
			If: Area Increase factor for Frontage (F/P025)W/30 above		
	IBC 506.2		25% perimeter in public way (F=1081', P=1317', W=max 30')		see 506.1 for area per story
			At x If: Area Increase for Frontage (sf) Is: Area Increase factor for Sprinkler (200% for buildings with	8,277	see 506.1 for area per story
	IBC 506.3		more than one story above grade plane and 300% for buildings with no more than one story above grade plane)	2	see 506.1 for area per story
	100 300.3		At x is: Area increase for Sprinkler (st)	29,000	and the state of t
			Area NOT limited for one story above grade plane, of Type II, #IA or IV construction, if:		
			Each classroom: two means of egress, with one direct exit to		
			outside Automatic sprinkler system throughout		
	BC 507.10		Public ways or yards not less than 60 feet around		N/A
SEPARATIO	ın				
		101:5.2.2	Classification of Hezard Contents:	Ordinary	
		101:6,1,14,4,1 (a)	Required separation Education/Assembly (includes Stage)	2 hours 1 hour	OK if anyimbles
		101:6.1.14.4.3 101:6.1.14.4.1 (a)	Reduced by 1 hour if automatic sprinkler system Required separation Storage/Assembly (includes Stage)	1 nour 2 hours	OK if sprinkler
					Floor/Ceiling Assy between basement storage and Gym win
		101:6.1.14.4.3 101:6.1.14.4,1 (a)	Reduced by 1 hour if automatic sprinkler system Required separation Storage/Education	1 hour 3 hours	on ground floor (1951 wing)
					Floor/Celling Assy between basement storage and Education
		101:6.1.14.4.3 101:7.1.3	Reduced by 1 hour if automatic sprinkler system Separation of means of Egress	2 hour	wing on ground floor (1951 wing)
		101.7710	as a substant of mount of a substant of the su	1 hour min in new building (with occupant load exceeding	N. O. H
		101.14.3.6	Corridors	30) Not rated if sprinklered and wall are smoke partitions	Pb @ the office window check-in (see also 7.1,3,2,1,10 limiting the types of openings and penetrations)
				1 hour min in new building 3 or less stories (separation and construction)	
			l	2 hour min in new building 4 or more stories (separation and	
				construction) 1 hour min in existing building 4 or more stories with	th required: Pb of stairways in 1907 wing on first level: not
			Other exit separation	Sprinkler	enclosed
			Doors Story below level of exit discharge with NO Education	Fire door with door closer	Doors to update
		101:15.3.5.2	Occupancy requires 1 hour separation		see Basement level of 1951 wing
	IBC 508.2.5		Furnace Room: where any equipment exceeds 400 kBtu/hr input (gas fired/air handlers)	1 hour or automatic fire-extinguishing system	Ok if automatic sprinkler system through out
			Rooms with boilers where the largest piece of equipment is		Ok if automatic sprinkler system through out
	ISC 508.2.5		over 15 psi and 10 horsepower	1 hour or automatic fire-extinguishing system 2 hours; or 1 hour and automatic sprinkler system	
	IBC 508.2.5		Rooms containing fire pumps in non high-rise buildings	throughout the building	Ok if automatic sprinkler system through out install automatic sprinkler system through out so no fire wall
	IBC 706.4		Fire wall rating for Education and/or Assembly	3 hours	required
	IBC 707,3,9		Fire area separation for Education and/ or Assembly	2 hours	install automatic sprinkter system through out so no fire wall / areas required
	IBC 712.3		Horizontal assemblies for Education and/or Assembly	see IBC 707.3.9	n/a
	IBC 708.4	101:7.1.3.2	Shaft enclosures for shafts connecting 3 or less stories:	1 hour or more (not less than floor penetrated but <2h) not rated as long as Lav. Separated from other spaces by 1h	Pb of stairways in 1907 wing on first level: not enclosed
				rated walls, OR building sprinklered and Lav. Separated	
		101.14.3.6.(4)	Corridors / Lavatories Separation Incidental Use Area:	from other spaces by smoke partitions	
			If sprinklered, separated from other areas by IBC Section		
			710 Smoke Partitions If not sprinklered, separated by 1 hour fire barrier, IBC		
	IBC 509	101-14.3.2.1	Section 707		Smoke partitions: To verify, repair and update if needed install automatic sprinkler system through out
		14,3,2,1(1)(4) 14,3,2,1(2)(b)	Janitor Closets - no louver allowed unless sprinklered  Maintenance Facilities Must have 1 hour and fire sprinkler		mstan automane apimikier system unoogn out infa
		101.14.3.7	Education Smoke Protection:		
			Existing and New Educational areas must be subdivided into		
			30,000sf or 300ft long by 1 hour smake partitions, unless allexterior exit access (direct) per 7.5.3	classrooms have an	
	Chapter 8	101.7.1.4.1	Interior wall and finish:		
		101.14.3.3.2	Exits, Corridors, Lobbies, - Min. Class B with Sprinklers	n	
			Floors in exits and exit access corridors - not less than Type Minimum ceiling height: 7'-6" with projections down to 6'-8"	II .	
			Rated Exterior Walls:		
	Table 602		1 hour rated from both sides less than 10 ft from adjacent bu		
	Table 602		Site Fire Separation Distance (FSD): More than 10 ft to perin from new addition.	neter (ut lines	
FIRE SUPP	RESSION		When is Fire Suppression Required in new building for	Throughout fire areas greater than 12,000 sf	
	IBC 903.2.3		Group E occupancy?	Throughout portion below the lowest level of exit discharge	install automatic sprinkler system through out
			Where is Fire Suppression Required in IESC Level 2 Alteration for Group E occupancy with exits or corridors	Where work area located in fire area greater than 12,000 sf. Where work area exceeds 50% of fi area.	
	IEBC 704.2.2		serving more than 30?	Where sufficient municipal water supply	install automatic sprinkler system through out
			Where is Fire Suppression Required in IEBC Level 2 Alteration for other required areas with exits or corridors	Where work area located in Stage	
	IEBC 704.2.4		serving more than 30?	Where sufficient municipal water supply Where student occupancy exists below level of exit	install automatic sprinkler system through out
			Where is Fire Suppression Required in Existing Educational	discharge	
		101:15,3,5	occupancies per NFPA?	In buildings with unprotected floor openings Where building exceeds 12,000 sf	install automatic sprinkler system through out
			i	Where 4 or more stories high	
				Where portion below level of exit discharge	
		101:14.3.5	Where is Fire Suppression Required in New Educational occupancies per NFPA?	In buildings with unprotected floor openings	Install automatic sprinkler system through out
		101:14.3.5			Install automatic sprinkler system through out
MEANS OF	EGRESS		occupancies per NFPA?	In buildings with unprotected floor openings	
MEANS OF	EGRESS	101:14.3.5 101:14.2.1.2 101:14.2.1.3			Install automatic sprinkler system through out  Relocate Title One Preschool to ground floor
MEANS OF	EGRESS	101:14.2.1.2 101:14.2.1.3	occupancies per NFPA?  Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location cation catio	In buildings with unprotected floor openings  on a level of discharge on a level of discharge or 1 story above	Relocate Title One Preschool to ground floor
MEANS OF	EGRESS	101:14,2.1.2 101:14,2.1.3 101:14,2.1.4	occupancies per NFPA?  Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location 2 stories and more above level of discharge for Preschool through G2	In buildings with unprotected floor openings  on a level of discharge on a level of discharge or 1 story above  Ok if independent and dedicated mean of egress	Relocate Title One Preschool to ground floor n/a Relocate Title One Preschool to ground floor
MEANS OF	EGRESS	101:14.2.1.2 101:14.2.1.3	coupancies per NFPA?  Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location: G2 Classroom location 2 stories and more above level of discharge for Preschool through G2 Classroom location: Preschool, K, G1 Classroom location: G2	In buildings with unprotected floor openings  on a level of discharge on a level of discharge or 1 story above	Relocate Title One Preschool to ground floor
MEANS OF	EGRESS	101:14.2.1.2 101:14.2.1.3 101:14.2.1.4 101:15.2.1.2 101:15.2.1.3	coupancies per NFPA?  Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location: G2 Classroom location: Stories and more above level of discharge for Preschool through G2 Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location 2 stories and more above level of	In buildings with unprotected floor openings  on a level of discharge on a level of discharge or 1 story above  Ok if independent and dedicated mean of egress on a level of discharge on a level of discharge on a level of discharge	Relocate Title One Preschool to ground floor n/a Relocate Title One Preschool to ground floor Relocate Title One Preschool to ground floor
MEANS OF	EGRESS	101:14:2:1.2 101:14:2:1.3 101:14:2:1.4 101:15:2:1.2	coupancies per NFPA?  Classroom location: Preschool, K, G1 Classroom location: G2 Classroom location: G2 Classroom location 2 stories and more above level of discharge for Preschool through G2 Classroom location: Preschool, K, G1 Classroom location: G2	In buildings with unprotected floor openings  on a level of discharge on a level of discharge or 1 story above  Ok if independent and dedicated mean of egress on a level of discharge	Relocate Title One Preschool to ground floor n/a Relocate Title One Preschool to ground floor Relocate Title One Preschool to ground floor n/a

TOPIC		NFPA 101 / NH 300 Ed. Spec.			Compliance
TOFIC	IBC/IEBC	ou Eu. apec.	Description		Солірналов
				80" min headroom (on max 1/3 of egress ceiling area) 27" lowest edge of obstruction	
	IBC 1003.3	101:7.1.5.1	Protruding Objects		Pb in the 1951 wing classroom corridor
		101:7.2.1 (101:14.2.2.2,			
Doors	IBC 1008	101:15.2.2.2 )	Doors	32" min opening unless allowed	
		101:7.2.1.2	Door leaf width:	48" max for swinging doors Same elevation on both sides (+/- 1/2"),	ок
				In existing building: 1 step lower outside not more than 8"	leveling required at both exit doors on wing 1907 wing first
	(BC 1008.1.5	101:7.2.1.3	Fjoor Level:	ext. fanding slope 2% max Swing In the direction of egress when serving more than 50	level (granite stairs and metal stairs)
				occupants or high hazard area or as enclose exit (except into existing corridor less than 6' wide 101:7.2.4.3.8.2)	
				Swing encroachment less than 1/2 of corridor,	
	IBC 1005.2 IBC 1005.3	101:7,2,1,4	Swing and Force to Open:	Door projection less than 7" H/W mounted between 34" and 48" above 1	Swing of boiler room door to Outdoor
	IBC 1008,1,10	101.15.2.2.2.2	Panic H/W		Many doors to update
		101:7,2.2 (101:14.2,2.3,			
Stairs		101:15.2.2.3)	Stairs		
			Existing Min width	36°	
			Max riser height	8"	
			Min tread depth	9-	
			Min headroom	6'-8" 12'	
			Max height between landings Landing	no decrease in width	
			Handrail	on both sides, 30" to 38" from tread, extend past the bottom and top risers	
			Guards	30" min, 4" sphere rule, 6" sphere rule	
			Usable space	Prohibited within exit enclosure including under stairs	
	)8C 1969		New	36" for < 50 pers., 44" for 50 <pers,<2000, 56"="" for="">2000</pers,<2000,>	
			Min width	pers.	ок
			Max riser height	7*	A couple of stairs aren't compliant with this but would comply per code for existing
			Min riser height	4"	ок
			Min tread depth	11"	A couple of stairs aren't compliant with this but would comply per code for existing
			Min headroom	6'-8"	
			Max height between landings	12' no decrease in width, dimension of travel=stair width (but no	
			Landing	more than 48" If straight run)	OK
			Handrall .	the bottom and top risers	A couple of stairs aren't compliant with this but would comply per code for existing
			Curate	42" min, 4" sphere rule, 6" sphere rule	A couple of stairs aren't compliant with this but would comply per code for existing
			Guards Usable space	Prohibited within exit enclosure including under stairs	Fire marshal will make mentions
	BC 1009,2	101:7.1.5.3	Stair ceiling height	6'-8" min	ок
Horizontal I	Ex IBC 1026	101:7.2.4	Horizontal Exits		N/A
Ramps		101:7.2.5	Ramps		
			New		Ramp in 1951 wing into 1907 wing reduced at door opening,
			Min width	44"	but width complies with code for existing
			Max slope	1 in 12	Ok
			Max cross slope Max rise for single run	1 in 48 30"	OK OK
			(Max riso in this grant	at top, at bottom, at door feaves opening onto ramp, at	
				change of travel direction, landing slope less than 1 in 48, width no less than ramp, 60" min in direction of travel (48" if	Ramp in 1951 wing into 1907 wing reduced at door opening,
			Landing	not accessible route)	but width complies with code for existing
			Handrail and Guards Existing	see stairs, required on both side for rise greater than 6"	Ramp in 1961 wing into 1907 wing needs handralls
			Min width	30"	
			Max slope	1 in 8 (1 in 6 if permitted)	
			Max height between landings	12' (no landing for slope 1 in 10 or less) at top, at bottom, at door leaves opening onto ramp, at	
				change of travel direction, landing stope less than 1 in 48, width no less than ramp, 60" min in direction of travel (48" if	
			Landing	not accessible route), unless approved existing ramp	
			Handrail and Guards	see stairs, required on both side for rise greater than 6"	
Egress Car	escity IBC 1005.1	101:7.3.3.1	Egress Capacity Capacity Exit Doors, Corridors	0.2 inch/person	ок
	IBC 1005,1		Capacity Exit Stairs	0.3 inch/person	ок
		101:7.3.4	Egress Min Width	36", 28" in existing (unless specified for individual exit component)	ок
		101:14.2.3.2	Corridor width (education NEW)	6' mìn	ок
		101:15.2.3,2	Corridor width (education Existing)	6' mìn	
		101:12.2.3,8	Corridor width (assembly NEW)	44' min	ок
		101:12.3.6	Main entrance / exit	•	486/2=243, 243*.02=48.6" OK (actual = 2x 6' double doors)
Number of	Means of Egress	101:7.4 101:7.4.1.2	Number of Means of Egress Occupancy load between 500-1000 for each story	Min 2 exits on each story 3 exits required or more	ok ok
Arrangeme	nt of Means of Egress		Exit separation	1/2 diagonal of area served, 1/3 if sprinklered	ок
		101:7.5,1.3.5	Exit separation (Existing building) with 2 or less exits	exempt but remotely located	
		101:7,5,1,3,6 101:14.2.5.1.2	Exit separation (Existing building) with 3 or more exits Dead end corridor (NEW)	1/2 diagonal of area served, 1/3 if sprinklered < 20' for non-sprinklered. 50' with sprinklers	ок
		101:15.2.5.2	Dead end corridor (existing)	< 20' for non-sprinklered. 50' with sprinklers	
		101:14.2.5.3.1 & .2	Common path of travel (NEW)	< 100ft with sprinkler, 75 without < 100ft with sprinkler, 75 without	OK if new sprinkler system added
		101:15.2.5.3.1 & .2	Common path of travel (Existing)	2 exit doors min	
		101:14.2.5.4	Space larger than 1000 sqft or with more than 50 persons	access to separate exits (even thru common corridor if exits in opposite directions)	ок
			1	2 exit doors min	
		101:15,2.5.4	Space larger than 1000 sqft or with more than 50 persons	access to separate exits (even thru common corridor)	•

	100 (1000	NFPA 101 / NH			Compliance
OPIC	IBC / IEBC	300 Ed. Spec.	Description		Compliance
				min 1 exit access door leading directly to exit corridor, to exit	
				or to outside exit access door leading to other room OK if path to exit	
				corridor < 75' and room protected with fire detection and/or	
				sprinkler, and/or hazardous material in room protected in	
		101:14.2.5.5	Classroom requirements:	metal focker min 1 axit access door leading directly to exit corridor, to exit	ок
				or to outside	
				exit access door leading to other room OK if path to exit	
				corridor < 75' and room protected with fire detection and/or	
		101:15.2.5.5	Classroom requirements:	sprinkler, and/or hazardous material in room protected in metal locker	
		101:19.2.5.5	Classroom requirements: Travel distance to exits	< 150 ft non-sprinklered, 200 ft sprinklered	ок
		101:15.2.6	Travel distance to exits	< 150 ft non-sprinklered, 200 ft sprinklered	
cessible r	neans of egress	101.10.2.0	Accessible means of egress	, •• • • • • • • • • • • • • • • • • •	
, diam'r	nonio ai agresa			min 2 accessible exits required, or 1 and 1 area of refuge	
				travel distance: see 101:14 (pr15).2.6	
				common path of travel: see 101:14 (or 15).2.5.3.1 &.2 exit separation: 1/2 of area served, no separation	
		101:7.5.4	Accessible means of egress in Existing buildings	requirement if sprinkter	Not compliant in 1907 Wing
				min 1 accessible means of egress, min 2 if more than 1	·
	IBC 1007		Accessible means of egress	regular means is required, continuous,	Not compliant in 1907 Wing
				required as one of the accessible means of egress if more than 4 floor above exit discharge, unless automatic sprinkler	
				and horizontal exit provided or automatic sprinkler and ramp,	
			*	Needs own standby power, Needs to be accessed from area	
			<b>l</b>	of refuge or horizontal exit. Needs 2-way comm system on	N4-5-644-4
	IBC 1007,2.1, IBC 10	007.4	Elevator	landing or within area of refuge considered accessible only if 48" wide and with area of	Needs to be added
	IBC 1007.3		Stairs	considered accessible only if 48 'Wide and With area of	n/a if elevator
	BC 1007.5		Platform lifts	Not permitted in Education occupancy	
			l	travel distance thereto same as for regular mean of egress,	
			I	direct access to stairway within exit enclosure or elevator	
			I	(described above), separated by smoke barrier or horizontal exit unless located within exit enclosure, with 2-way comm	
	IBC 1007.6		Areas of Refuge	exit unless located within exit enclosure, with 2-way comm system	n/a if elevator
	THE PARTY.			30"x48" for each 200 occupants in addition to means of	
			Area of Refuge Size	egress width, 2 rows only	n/a if elevator
	IBC 1007.9, IBC 100	7.10, IBC 1007.11	Signage & Instructions		Not compliant
					ł
umination					
nd Marking	1	101:7.8, 101:7.9 and			
Egress	BC 1006	101:7,10	Illumination of Means of Egress, Emergency Lighting, M	larking of Means of Egress	see Reno Engineering & Light Design Report
LUMBING	FIXTURES				
	FIXTURES				
inimum	FIXTURES				
LUMBING linimum lumbing icilities	FIXTURES	NH Ed Spec 321.19	Min number of fixtures for Assembly A3		
inimum umbing		NH Ed Spec 321.19	Min number of fixtures for Assembly A3  GYM + STAGE		GYM + STAGE
inimum umbing		NH Ed Spec 321.19			GYM + STAGE OK
inimum umbing		NH Ed Spec 321.19	GYM + STAGE		E.
inimum umbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125	8	ок
inimum umbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65	8	OK Not compliant
inimum umbing		NH Ed Spec 321.19	GYM + STAGE WC Maie - 1/125 WC Female - 1/65 Lav 1/200	5 3	OK Not compliant OK Not compliant OK OK
nimum imbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500	9 3 1	OK Not compliant OK Not compliant OK LIBRARY
nimum imbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500 Other: service sink - 1	9 3 1	OK Not compliant OK Not compliant OK LIBRARY OK
nimum imbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500 Other: service sink - 1 LIBRARY WC Male - 1/125 WC Female - 1/65	9 3 1	OK Not compliant OK Not compliant OK LIBRARY OK OK
nimum imbing		NH Ed 8pec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500 Other: service sink - 1 LIBRARY WC Male - 1/125	9 3 1	OK Not compliant OK Not compliant OK LIBRARY OK OK
nimum imbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500 Other: service sink - 1 LIBRARY WC Male - 1/125 WC Female - 1/65 Lav 1/200 Fountain - 1/500	9 3 1	OK Not compliant OK Not compliant OK LIBRARY OK OK OK OK
nimum imbing		NH Ed Spec 321.19	GYM + STAGE WC Male - 1/125 WC Female - 1/65 Law 1/200 Fountain - 1/500 Other: service sink - 1 LIBRARY WC Male - 1/125 WC Female - 1/65 Law 1/200 Fountain - 1/500 Other: service sink - 1	9 3 1	OK Not compliant OK Not compliant OK LIBRARY OK OK
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		NEPA 101 / NH			
TOPIC	IBC / IEBC	300 Ed. Spec.			Compliance
TOFIC	IDO / ILDO	Joo La. Opec.	Description		<u> </u>
Toitet room requirements	s IBC 2903		Toilet rm requirements	WC Enclosed for privacy Urinal partitioned for privacy Smooth, hard, nonabsorbent surface (4'x'4 vertically) + 4" min baseboard	Not compliant
Accessible	LITY				
route	IBC 1104.1		Site arrival points		ок
	IBC 1104.2		Within site		ок
	IBC 11D4.3		Connected spaces		ок
	ISC 1104.4		Multilevel buildings and facilities	Access to each level	Need and elevator
	IBC 1104.5		Location	Same area as general circulation path 60% of public entrances to be accessible, unless they are	Need vestibule for elevator to connect to rest of interior circulation
Accessible entrances Accessible	IBC 1105.1		Public entrances	restricted. In that case, at least one restricted entrance needs to be accessible	Restricted entrances: main entrance accessible, Gym entrance accessible too.
Parking	IBC 1106.1		Accessible parking spaces	51 to 75 spaces: 3 accessible required for every 6 accessible spaces, one to be van accessible	3 accessible provided
	IBC 1106.5		Accessible van spaces	space	1 van accessible provided
	IBC 1106,6		Location	dosest to accessible building entrance	ок
	IBC 1105.7		Passenger loading zones	1 accessible passenger loading zone for every 100'	ок
Other features and facilities	ı				
Toilets and				Each toilet im to be accessible and on accessible route. At least one type of fixture to be accessible in each toilet rm. Where multiple single-user toilet im clustered: 50% accessible	Not all single -user toilet are accessible and no accessible
bathing facilities	IBC 1109.2		Toilets and bathing facilities	Where scattered: each needs to be accessible	fixture in toilet rm for kids
raonaca			Exception if intended for use by single occupant Family or assisted-use facility (Assembly only) (also called	If aggregate of 6 or more WC (M and F): one accessible	n/a
	IBC 1109.2.1		single user or unisex)	family toilet rm required At least one wheelchair compartment per bank If 6 or more compartments, at least one ambulatory	Need one accessible family toilet rm for the gym toilet rm  Need a wheelchair and an ambulatory compartment in all the
	(BC 1109,2,2		Wheelshair and ambulatory compartments	compartment in addition. at least one accessible (or 5%) If 6 or more, one needs to be enhanced reach ranges (no	kids toilets as they all are more than 6 renovate bathroom and install automatic activator lay to meet
	IBC 1109.2.3		Lavatories	more than 11")	this requirement (and save water)
	BC 1109,3		Sinks	at least one accessible (or 5%) in accessible spaces	change sinks in classrooms
	IBC 1109.5		Water fountains	one for standing person and one for wheelchair person	to update
	IBC 1110		Signs		update

#### ENERGY CODE

TOPIC	JECC	Description		Compliance
CLIMATE ZONE	····	MERRIMACK COUNTY, NH	6A	
METHOD OF ENERGY	CODE ANALYSIS	Envelope Prescriptive Path / Whole building / Trade-off a	ppproach ?	Envelope Prescriptive Path
ENVELOPE COMPONE	ENTS DESCRIPTION			
R-Value	IECC 502.2	Roof - 1907 wing - Attic and other  Roof - 1951 wing - Insulation entirely above deck Roof - 1957 wing - Insulation entirely above deck Exterior wall - 1907 wing - Brick load bearing Exterior wall - 1957 wing - CMU load bearing veneered brick Exterior wall - 1957 wing - CMU load bearing veneered brick Exterior wall - 1957 wing - CMU load bearing veneered brick Exterior wall below grade - 1907 wing - masonry Slab on grade - 1907 wing - unheated Slab on grade - 1951 wing - unheated Slab on grade - 1954 wing - unheated	R-13,3 ci	unknown OK, 2 layers of 3" Polyiso above classrooms, unknown above gym OK, 2 layers of 3" Polyiso probably not complying probably not complying - cavity not insulated probably not complying - 1/2" cavity not insulated probably not complying what complying (4" concrete, no insulation) Not complying (4" concrete, no insulation) Not complying (4" concrete, no insulation)
Fenestration	IECC 502.3	Salas on grade - 1957 Wing - United to Max % of fenestration Metal framing Doors Metal Framing Windows	40% of above grade wall U-factor=.88, air leakage < 7 air change per hour U-factor=.55, air leakage < 7 air change per hour	nation pying (4 console, no negation)
BUILDING MECHANICAL SYSTE IECC 503				See DESIGN DAY MECHANICALS INC report
ELECTRICAL POWER	AND LIGH IECC 504			See RENO ENGINEERING report

## Storing the School Continue of Allers (CVAI) Children or Children

## Village School - April 24, 2018 osh Coughlin - Facilities Director, Pembroke School District

#### **Option 1: Retain Village School**

- 1. Addressable fire panel with ADA horns and ADA strobes: \$80,000
- 2. Install elevator (not including construction to area and removal of lifts): \$150,000
- 3. Sprinkler system in 1957 wing: \$60,000
- 4. Renovation of 1957 bathrooms per ADA: \$100,000
- 5. Unit ventilation heaters throughout classrooms: \$460,000
- 6. New Doorway 1907: \$15,000
- 7. Stair enclosure 1907 building: \$100,000
- 8. Fire rating the wood paneling in 1907 building: \$175,000
- 9. New Windows in 1951 wing, basement and 1907 wing: \$225,000
- 10. Rearrange sprinkler heads to meet NFPA Requirements in 1907 building: \$8,000
- 11. Insulate heating pumps: \$4,000
- 12. Air conditioning for server room: \$10,000
- 13. Renovate 1951 bathrooms per ADA: \$100,000
- 14. Sprinkle 1951 addition: \$110,000
- 15. New heating system in gymnasium: \$270,000
- 16. Gymnasium roof: \$40,000
- 17. New doorway 1951 wing: \$8,000
- 18. Electrical wiring, distribution panels, raceway systems: \$1,750,000
- 19. New heating unit in basement: \$9,000
- 20. New foundation wall and fence: \$3,000
- 21. Reclaim pavement in courtyard: \$25,000

Total Estimate: \$3,702,000

#### Cost Unknown Throughout Entire Building:

- 1. New flooring throughout.
- 2. Masonry repair and pointing throughout.
- 3. Update and add where needed emergency lighting and exit.
- 4. Paint eve of 1907 building.
- 5. Lead paint removal in 1907 building.
- 6. Asbestos abatement throughout (floors, ceilings, insulation, and heating systems)
- 7. Bogen intercom system.
- 8. Handrails in 1907, 1951 and 1957 buildings.
- 9. Exit stairs in 1907 building.

Key: # ^ \*

