

# TOWN OF BOW, NEW HAMPSHIRE

## Capital Improvements Plan FY2018-19 through FY2023-24

CIP Committee

2017



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## Conclusion and Recommendations

The Program of Capital Expenditures herein provides a guide for budgeting and development of Bow's public facilities. The CIP Committee will review and update the CIP each year prior to budget deliberations. The CIP may be modified each year based on changes in needs and priorities. As noted in the Plan, there are projects proposed where the CIP Committee has determined that there is not enough information to make a recommendation concerning a proposed capital project. These are topics in the opinion of the Committee that should be studied in further detail before funding decisions should be made.

The Capital Improvements Committee has worked hard over the past few months to improve the effectiveness of capital facilities programming in Bow. It is hoped that the improvements made during this time can continue to be refined and evaluated for their effectiveness in future years. The CIP Committee believes that Bow has made great strides in process and format of the Capital Improvements Plan and is hopeful that the improvements have made a difference to the Planning Board, Board of Selectmen, School Board, Library Trustees and Budget Committee as they prepare budgets each year.

The committee suggests the following:

- The Committee recommends the continued pursuance of any and all options to provide the Bow Junction area of town with clean, potable water. The committee has given this project a Level One priority for the last two years.
- The Committee recommends moving the annual police cruiser replacement schedule from the operating budget to the Capital Improvements Plan as the cost of the cruisers has risen above the \$25,000 CIP threshold to \$36,000.
- The Committee recommends delaying the replacement of Ambulance A-2 by two years per the recommendation of the Fire Chief as the current ambulance is holding up well.
- The Committee recommends delaying the purchase of Engine E-3 by one year per the recommendation of the Fire Chief so he can evaluate use of the current fleet with the new tanker to determine the best specification for the new engine.
- The Committee recommends reducing the purchase price of the Turnout Gear from \$120,000 to \$75,000 (current dollars) as recommended by the Fire Chief due to organizational changes in the department that reduces the number of staff members qualified to enter dangerous situations that require the equipment.
- The school administration of the Bow School District will be proposing to the Bow School Board as part of the annual budget process, a warrant article to pay for architectural and engineering design costs as well as any other costs associated with the selection of a construction manager. These funds are proposed to be withdrawn from the current Bow School District Capital Reserve Fund. It is proposed that this take place at the March 2019 Annual Meeting. Pending approval of those funds, the work will take place so that the District will have a guaranteed

maximum price that can then be taken to the March 2020 Annual Meeting for voter consideration. The renovation of Bow Elementary School would then take place over the Summer of 2020. It is the recommendation of the Committee to continue to fund the Bow School District CRF with a contribution of \$300,000. It is also the recommendation of the Committee to start contributing \$70,000 to the BHS Capital Improvement CRF to fund the High School roof replacement.

- The Committee also recommends the inclusion of one or more warrant articles to consolidate the following Capital Reserve Funds:
  1. Repurpose the Bow School District Capital Reserve Fund to include the High School.
  2. Use up the funds and discontinue the Bow School District HVAC Capital Reserve Fund.
  3. Use up the funds and discontinue the Bow High School Capital Improvements Capital Reserve.
  4. Use up the funds and discontinue the Bow School District Paving Capital Reserve Fund.

The Committee after much review has made the following recommendations for the contributions to the Capital Reserve Accounts and these recommendations are depicted in the individual capital reserve spreadsheets in this report:

- Level fund the Bridge and Highway Capital Reserve at \$120,000 for FY18/19 through FY23/24.
- Increase the contribution to the Municipal Buildings and Grounds Capital Reserve from \$120,000 to \$150,000 for FY18/19 through FY23/24. The town is conducting comprehensive facility studies on the Community Center and Municipal Office Building along with an inventory and replacement schedule for the major components of the other town facilities. Indications are that additional funds will be needed to properly maintain all these facilities.
- Increase the contribution to the Public Works Highway Equipment Capital Reserve from \$120,000 to \$155,000 for FY18/19 through FY23/24. The increase is due to the additions of radio equipment to the plan to be replaced in FY18/19 a cost of \$50,000 and the inclusion of replacement of the Public Works Director's pickup truck in FY 24/25 at a cost of \$25,000.
- Increase the contribution to the Police Department Vehicles and Equipment Capital Reserve Account from \$25,000 to \$70,000 for FY18/19 through FY23/24. This increase is necessary to fund the annual purchase of the front-line police cruisers and to upgrade them from sedans to SUVs. This would be offset by a reduction in the operating budget, where the cruisers were previously funded, of approximately \$30,000.
- Increase the contribution to the Fire Department Trucks and Ambulances Capital Reserve from \$25,000 to \$100,000 for FY18/19 through FY23/24. The increase is necessary to maintain a sufficient balance in the fund for the purchase of several expensive pieces of equipment past year 6 of the CIP.
- Increase the contribution to the Fire Department Equipment Capital Reserve from \$0 to \$42,000 for FY18/19 through FY23/24. The increase is necessary to fund future purchases as revised by the Fire Chief.
- Increase the contribution to the Parks and Recreation Department Improvements Capital Reserve

from \$15,000 to \$16,000 for FY18/19 through FY23/24 in order to fully cover future projects.

- The Committee recommends a contribution of \$9,000 to the Library Emergency Repair Capital Reserve in FY18/19 to bring the fund up to the recommended \$25,000 level.
- The Committee recommends continuing the \$5,000 contributions to the Library Building Maintenance CRF and the Community Center CRF.

The Committee also reviewed the following changes that were made during the budget process to the capital reserve contribution levels that the committee had recommended.

<b>Capital Reserve Fund</b>	<b>FY17/18 Committee Recommendation</b>	<b>2017 Town Meeting Approval</b>	<b>FY18/19 Committee Recommendation</b>
Bridge & Highway Construction	\$130,000	\$120,000	\$120,000
Public Works Equipment	\$150,000	\$120,000	\$155,000
Fire Department Equipment	\$65,000	\$0	\$42,000
Police Equipment	\$30,000	\$25,000	\$70,000
Recreation Improvements	\$20,000	\$15,000	\$16,000
Municipal Buildings & Grounds	\$135,000	\$120,000	\$150,000
Fire Trucks	\$45,000	\$25,000	\$100,000
Library Emergency Repair	\$10,000	\$10,000	\$9,000
Library Building Maintenance	\$5,000	\$5,000	\$5,000
Community Center	\$5,000	\$5,000	\$5,000
<b>Total</b>	<b>\$595,000</b>	<b>\$445,000</b>	<b>\$672,000</b>

The Committee recommends total contributions of \$672,000 to the capital reserve funds. This is a \$77,000 increase over last year's recommendation, which is primarily due to the police cruiser purchases being moved from the operating fund to the capital reserve fund, the addition of DPW radio equipment, and adequately funding Fire Department vehicle and equipment purchases.

Respectfully Submitted,

Michael Wayne, Chair (Citizen Representative)  
Dik Dagavarian (Citizen Representative)  
Matthew Poulin (Citizen Representative)  
Colleen Hunter, Vice Chair (Select Board Representative)  
William Oldenburg (Planning Board Representative)  
June Branscom (School Board Representative)  
Jennifer Strong-Rain (Alternate School Board Representative)  
Jeffrey Knight (Budget Committee Representative)

The Committee would like to thank the following for their assistance and valuable insight:

David Stack, Town Manager  
Geoff Ruggles, Finance Director  
Margaret Lougee, Police Chief  
Mitchell Harrington, Fire Chief  
Timothy Sweeney, Director of Public Works  
Cindy Rose, Parks and Recreation  
Todd Drew, DPW Fleet and Facilities Foreman  
Lori Fisher, Library Director  
Library Trustees  
SAU #67 and the Bow School Board  
Duane Ford, Assistant Superintendent

Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Bridges and Highways</b>								
Annual Road Reconstruction and Paving	GF	2	430,000	430,000	430,000	430,000	430,000	430,000
	0 CRF	2	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
River Road culvert - boat ramp	CRF	2	50,000	-	-	-	-	-
So. Bow Road culverts (3)	CRF	2	120,000	-	-	-	-	-
River Rd/Rte 3A intersection	CRF	3	-	255,102	-	-	-	-
Page Road Drainage system	CRF	3	-	-	260,308	-	-	-
Bow Bog Road culvert	CRF	3	-	-	-	318,745	-	-
Page Road culvert - Br. London TPK West	CRF	3	-	-	-	-	48,787	-
Birchdale Road Bridge	CRF	4	-	-	-	-	-	-
River Road Bridge	TBD	4	-	-	-	-	-	-
Contributions:								
Bridge and Highway Construction CRF	GF		120,000	120,000	120,000	120,000	120,000	120,000
<b>Bridges and Highways Subtotal</b>			<b>720,000</b>	<b>805,102</b>	<b>810,308</b>	<b>868,745</b>	<b>598,787</b>	<b>550,000</b>
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Buildings and Facilities</b>								
Salt shed	CRF	2	440,000	-	-	-	-	-
Bathrooms - Muni Bldg.	CRF	2	25,000	-	-	-	-	-
Municipal Bldg Insulation Project	CRF	2	75,000	-	-	-	-	-
Heat/AC - Old Town Hall	CRF	2	30,000	-	-	-	-	-
ADA Compliance - Town Buildings	CRF	2	-	25,510	-	-	-	-
Parking Lot & Drainage - Muni Bldg	CRF	2	-	91,837	-	-	-	-
Fueling System - DPW	CRF	3	-	-	114,536	-	-	-
Heating System - Muni Bldg.	CRF	3	-	-	-	106,248	-	-
Electrical System - Muni Bldg.	CRF	3	-	-	-	90,311	-	-
Community Building	GF	1	100,000					
Contributions:								
Municipal Building & Grounds CRF	GF		150,000	150,000	150,000	150,000	150,000	150,000
Community Building CRF	GF		5,000	5,000	5,000	5,000	5,000	5,000
<b>Buildings and Facilities Subtotal</b>			<b>825,000</b>	<b>272,347</b>	<b>269,536</b>	<b>351,559</b>	<b>155,000</b>	<b>155,000</b>

Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Public Works Equipment</b>								
2002 Tractor	CRF		80,000	-	-	-	-	-
(New) Pickup Truck, Bldg. Maint.	CRF		45,000	-	-	-	-	-
2010 Pickup Truck, Parks&Rec	CRF		60,000	-	-	-	-	-
Tractor Mowing Attachment	CRF		35,000	-	-	-	-	-
Radios	CRF		50,000	-	-	-	-	-
2005 6-Wheel Dump Truck (T-7)	CRF		172,000	-	-	-	-	-
2007 6-Wheel Dump Truck (T-6)	CRF		-	175,510	-	-	-	-
2009 Pickup Truck, Foreman	CRF		-	61,224	-	-	-	-
1993 Sullair compressor	CRF		-	15,306	-	-	-	-
Field Shatter Tine Aerator (P&R)	CRF		-	30,612	-	-	-	-
2010 1-Ton Dump Truck (T-9)	CRF		-	-	88,505	-	-	-
2012 1-Ton Dump Truck (T-10)	CRF		-	-	-	-	92,154	-
2008 6-Wheel Dump Truck (T-5)	CRF		-	-	179,092	-	-	-
2008 6-Wheel Dump Truck (T-4)	CRF		-	-	-	182,747	-	-
2009 6-Wheel Dump Truck (T-3)	CRF		-	-	-	-	186,477	-
2013 Backhoe	CRF		-	-	-	-	-	160,412
2010 6-Wheel Dump Truck (T-2)	CRF		-	-	-	-	-	-
2000 Grader	CRF		-	-	-	-	-	-
2014 Loader	CRF		-	-	-	-	-	-
2014 6-Wheel Dump Truck (T-1)	CRF		-	-	-	-	-	-
2008 John Deere Mower (P&R)	CRF		-	-	-	-	-	-
2007 Jet & Vac	CRF		-	-	-	-	-	-
Contributions:								
Public Works Equipment CRF	GF		155,000	155,000	155,000	155,000	155,000	155,000
<b>Public Works Equipment Subtotal</b>			<b>597,000</b>	<b>437,652</b>	<b>422,597</b>	<b>337,747</b>	<b>433,631</b>	<b>315,412</b>



Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Fire Truck and Ambulance Purchases</b>								
Pumper (E-3)	CRF		-	663,265	-	-	-	-
Ambulance (A-2)	CRF		-	-	249,896	-	-	-
SUV (C-1)	CRF		-	-	-	47,812	-	-
Forestry Truck	CRF		-	-	-	-	97,575	-
Ambulance (A-1)	CRF		-	-	-	-	-	-
Pumper (E-1)	CRF		-	-	-	-	-	-
Tanker (T-3)	CRF		-	-	-	-	-	-
Contributions:								
Fire Trucks CRF	GF		100,000	100,000	100,000	100,000	100,000	100,000
<b>Fire Department Subtotal</b>			<b>100,000</b>	<b>763,265</b>	<b>349,896</b>	<b>147,812</b>	<b>197,575</b>	<b>100,000</b>
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Fire Equipment Purchases</b>								
Defibrillators	CRF		-	-	62,474	-	-	-
CPR Machines	CRF		-	-	31,237	-	-	-
Jaws of Life	CRF		-	-	31,237	-	-	-
Turnout Gear	CRF		-	-	-	79,686	-	-
SCBA Equipment	CRF		-	-	-	-	168,913	-
Radio Equipment	CRF		-	-	-	-	-	-
Skid tank and pump	CRF		-	-	-	-	-	-
Contributions:								
Fire Equipment CRF	GF		42,000	42,000	42,000	42,000	42,000	42,000
<b>Fire Department Subtotal</b>			<b>42,000</b>	<b>42,000</b>	<b>166,948</b>	<b>121,686</b>	<b>210,913</b>	<b>42,000</b>

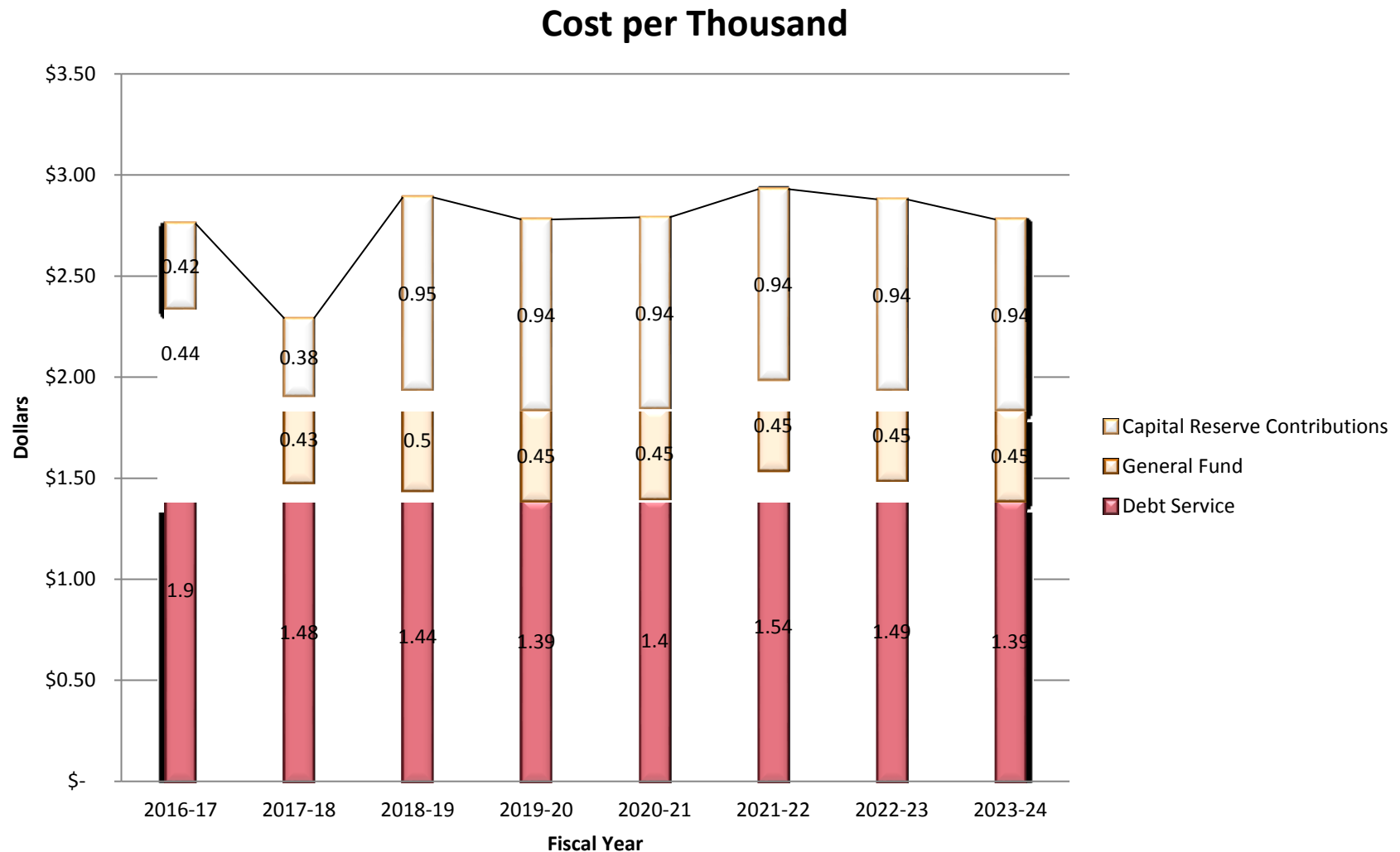
Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Police Department</b>								
2004 All-Terrain Vehicles (2)	CRF		8,600	-	-	-	-	-
Video Monitoring Equipment	CRF		40,000	-	-	-	-	-
Police Vehicle, Unit-3	CRF		36,000	-	-	-	39,030	-
Police Vehicle, Unit-1 (Chief)	CRF		-	36,735	-	-	-	-
Police Vehicle, Unit-2	CRF		-	36,735	-	-	-	39,827
Mobile and portable radios	CRF		-	-	43,732	-	-	-
Police Vehicle, Unit-5 (K-9)	CRF		-	-	39,567	-	-	-
Police Vehicle, Unit-4	CRF		-	-	37,484	-	-	-
Police Vehicle, Unit-6	CRF		-	-	-	38,249	-	-
Mobile Data Terminals (7)	CRF		-	-	-	-	47,880	-
Police Vehicle, Unit-5 (K-9)	CRF		-	-	-	-	39,030	-
Contributions:	GF							
Police Equipment CRF	GF		70,000	70,000	70,000	70,000	70,000	70,000
<b>Police Department Subtotal</b>			<b>154,600</b>	<b>143,470</b>	<b>190,783</b>	<b>108,249</b>	<b>195,940</b>	<b>109,827</b>
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Parks &amp; Recreation</b>								
Water well for irrigation	CRF	2	30,000	-	-	-	-	-
Hanson Park storage building	CRF	2	-	51,000	-	-	-	-
St. Cyr playground Equip. Phase 1	CRF	3	-	-	-	-	37,885	-
St. Cyr playground Equip. Phase 2	CRF	3	-	-	-	-	-	38,643
Contributions:								
Parks and Rec. Improvements CRF			16,000	16,000	16,000	16,000	16,000	16,000
<b>Parks &amp; Recreation Subtotal</b>			<b>46,000</b>	<b>67,000</b>	<b>16,000</b>	<b>16,000</b>	<b>53,885</b>	<b>54,643</b>

Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Library</b>								
AC & Handlers Replacement	GF	1	50,000					
Generator	CRF	2	-	-	-	-	-	35,331
Elevator replacement	CRF		-	-	-	-	-	-
Replace furnace & control system	CRF		-	-	-	-	-	-
Replace shingle & flat rubber roof	CRF		-	-	-	-	-	-
Contributions:								
Library Emergency Repairs CRF			9,000					
Library Building Maintenance CRF			5,000	5,000	5,000	5,000	5,000	5,000
<b>Library Sub-total</b>			<b>64,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>40,331</b>
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Water and Sewer</b>								
Sewer Meter Installation	CRF	2		128,000				
Sewer System Activation	TBD	5						
Bow Junction Water Main Extension	TBD	1						
<b>Water and Sewer - Sub Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Grand Total - Town Projects</b>			<b>1,909,600</b>	<b>2,056,184</b>	<b>1,641,523</b>	<b>1,497,365</b>	<b>1,206,187</b>	<b>1,009,801</b>

Summary of Capital Improvement Projects								
Project	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>School District</b>								
Buses	GF		100,000	100,000	100,000	100,000	100,000	100,000
BES Renovation Architect	CRF		-	300,000	-	-	-	-
BES Renovation	CRF, BD		-	-	3,100,000	-	-	-
BHS Turf Field	CRF, GF		-	-	-	-	-	-
BHS Roof Replacement	CRF, GF		-	-	-	-	-	-
Contributions:								
Bow School District CRF:			300,000	300,000	300,000	300,000	300,000	300,000
Bow School District HVAC CRF:			-	-	-	-	-	-
BHS Capital Improvements CRF:			70,000	70,000	70,000	70,000	70,000	70,000
Athletic Fields & Facilities CRF			28,750	28,750	28,750	28,750	28,750	28,750
AREA School - Dunbarton CIF CRF			40,000	40,000	40,000	40,000	40,000	40,000
<b>School District Subtotal</b>			<b>538,750</b>	<b>838,750</b>	<b>3,638,750</b>	<b>538,750</b>	<b>538,750</b>	<b>538,750</b>
<b>SUMMARY - CAPITAL PROJECTS</b>								
Town Projects			\$1,909,600	\$2,056,184	\$1,641,523	\$1,497,365	\$1,206,187	\$1,009,801
School Projects			\$538,750	\$838,750	\$3,638,750	\$538,750	\$538,750	\$538,750
<b>TOTAL - ALL CAPITAL PROJECTS</b>			<b>\$2,448,350</b>	<b>\$2,894,934</b>	<b>\$5,280,273</b>	<b>\$2,036,115</b>	<b>\$1,744,937</b>	<b>\$1,548,551</b>
GF = General Fund    CRF = Capital Reserve Fund								
FB = Fund Balance    BD = Bond/Notes								
SA = State Aid    LP = Lease Purchase								
GR = Grant    TBD = To Be Determined								

Summary of Capital Improvement Projects								
Net Expense								
<i>Current &amp; Proposed Debt Expense</i>	Source	Rating	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Outstanding Bonds (Town)	GF		\$1,461,386	\$1,417,775	\$1,373,252	\$1,334,404	\$1,292,213	\$1,189,283
Outstanding Bonds (School)	SDGF		\$215,700	\$207,000	\$198,200	\$189,400	\$180,500	\$171,500
Proposed Bond (School)	SDGF				\$62,000	\$275,900	\$269,700	\$263,500
<b>Total</b>			<b>\$1,677,086</b>	<b>\$1,624,775</b>	<b>\$1,633,452</b>	<b>\$1,799,704</b>	<b>\$1,742,413</b>	<b>\$1,624,283</b>
<b>Net Tax Impact Per Thousand</b>			<b>\$1.44</b>	<b>\$1.39</b>	<b>\$1.40</b>	<b>\$1.54</b>	<b>\$1.49</b>	<b>\$1.39</b>
<i>General Fund Expense</i>								
Annual Road Reconstruction and Paving	GF		\$430,000	\$430,000	\$430,000	\$430,000	\$430,000	\$430,000
HVAC control system replacement	GF		\$50,000					
School Buses	GF		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
<b>Total</b>			<b>\$580,000</b>	<b>\$530,000</b>	<b>\$530,000</b>	<b>\$530,000</b>	<b>\$530,000</b>	<b>\$530,000</b>
<b>Net Tax Impact Per Thousand</b>			<b>\$0.50</b>	<b>\$0.45</b>	<b>\$0.45</b>	<b>\$0.45</b>	<b>\$0.45</b>	<b>\$0.45</b>
<i>Capital Reserve Funds - Contributions</i>								
Public Works Equipment	GF		\$155,000	\$155,000	\$155,000	\$155,000	\$155,000	\$155,000
Buildings & Facilities	GF		\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Community Center CRF	GF		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Bridges & Highways	GF		\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000
Police Department Equipment	GF		\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000
Fire Department Equipment	GF		\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Fire Department Trucks and Ambulances	GF		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Parks & Recreation Improvements	GF		\$16,000	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000
Library Maintenance	GF		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Library Emergency	GF		\$9,000	\$0	\$0	\$0	\$0	\$0
School	SDGF		\$438,750	\$438,750	\$438,750	\$438,750	\$438,750	\$438,750
<b>Total</b>			<b>\$1,110,750</b>	<b>\$1,101,750</b>	<b>\$1,101,750</b>	<b>\$1,101,750</b>	<b>\$1,101,750</b>	<b>\$1,101,750</b>
<b>Net Tax Impact Per Thousand</b>			<b>\$0.95</b>	<b>\$0.94</b>	<b>\$0.94</b>	<b>\$0.94</b>	<b>\$0.94</b>	<b>\$0.94</b>
<b>Combined Tax Impact Per Thousand</b>			<b>\$2.89</b>	<b>\$2.79</b>	<b>\$2.80</b>	<b>\$2.94</b>	<b>\$2.89</b>	<b>\$2.79</b>
<i>Total CIP Tax Impact \$ 200,000.00 Home</i>								
			<i>\$577.65</i>	<i>\$558.56</i>	<i>\$560.04</i>	<i>\$588.56</i>	<i>\$578.73</i>	<i>\$558.47</i>
<i>Total CIP Tax Impact \$ 300,000.00 Home</i>								
			<i>\$866.47</i>	<i>\$837.83</i>	<i>\$840.07</i>	<i>\$882.84</i>	<i>\$868.10</i>	<i>\$837.71</i>
<i>Total CIP Tax Impact \$ 400,000.00 Home</i>								
			<i>\$1,155.30</i>	<i>\$1,117.11</i>	<i>\$1,120.09</i>	<i>\$1,177.12</i>	<i>\$1,157.47</i>	<i>\$1,116.94</i>
<b>Tax Base</b>			1,166,052	1,166,052	1,166,052	1,166,052	1,166,052	1,166,052

## Estimated Cost, per thousand, of the Capital Improvements Plan on Tax Rate For Fiscal Years 2016-2017 thru 2023-2024.



## Introduction

The preparation and adoption of a Capital Improvements Plan (CIP) is an important part of Bow's planning process. A CIP aims to recognize and resolve deficiencies in existing public facilities and anticipate and meet future demand for capital facilities. A CIP is a multi-year schedule that lays out a series of municipal projects and their associated costs. Over the six-year period considered by the CIP, it shows how the Town should plan to expand or renovate facilities and services to meet the demands of existing or new population and businesses.

A CIP is an advisory document that can serve a number of purposes, among them to:

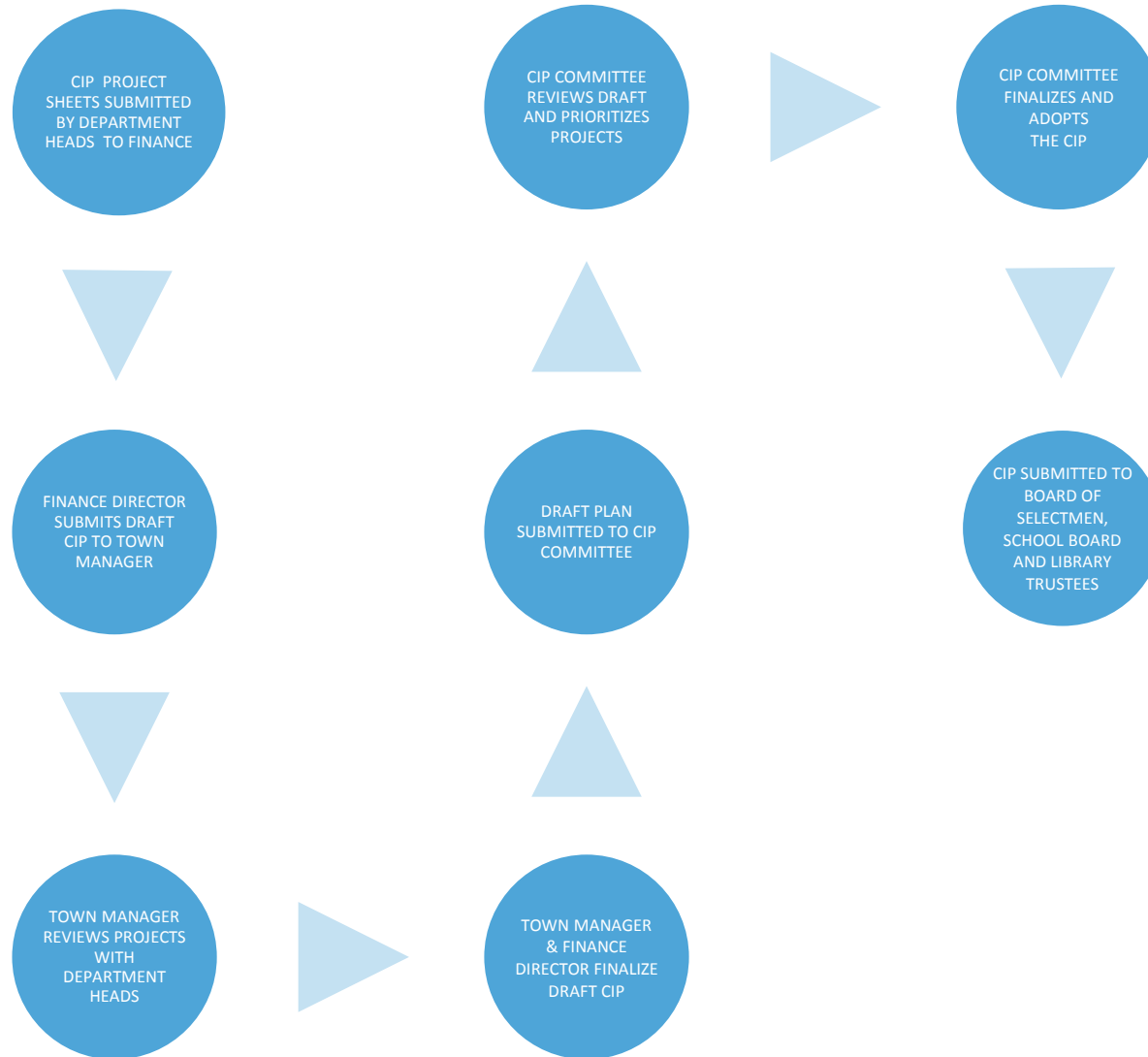
- Guide the Board of Selectmen, School Board, Library Trustees and the Budget Committee in the annual budgeting processes;
- Contribute to stabilizing the Town's real property tax rate;
- Aid the prioritization, coordination, and sequencing of various municipal improvements;
- Inform residents, business owners, and developers of planned improvements;
- Provide the necessary legal basis, continued administration and periodic updates of the Bow Impact Fee Ordinance.

It must be emphasized that the CIP is purely advisory in nature. Ultimate funding decisions are subject to the budgeting process and the annual Town Meeting. The CIP Committee is bringing Department project requests to the attention of the Town, along with recommended priorities, in the hope of facilitating decision making by the Town.

From the *2004 Bow Master Plan*:

"As the Master Plan was being written, it became evident that Bow is at a crossroads. With incremental growth creeping from southern portions of the State and the City of Concord continuing to evolve and expand as a regional source of employment, Bow will continue to grow and face new challenges and issues. Those who contributed to this plan did their best to plan for such changes and to suggest appropriate strategies that will accommodate reasonable growth while maintaining the rural atmosphere. It is the resolve of the Planning Board to faithfully and aggressively pursue the recommendations included in this document. The Master Plan is a document that outlines the kind of town Bow is now and the kind of town it would like to be, keeping in mind its importance as a community in central New Hampshire. It describes us today, forecasts where we are heading, and defines what we need to do over the next several years. Most importantly, we can see what we can achieve and, by committing it to paper for all to see, what our plan is for the future. It is to be a living document helping us to focus on the important issues of our times. We need each and every community member's efforts to bring fruition to the recommendations in this document."

## CIP Processes





## Financing Methods

In the project summaries below, there are several different financing methods used. Four methods require appropriations; either as part of the Town's annual operating budget or as independent warrant articles at Town Meeting.

- The ***1-Year Appropriation (GF)*** is the most common method, and refers to those projects proposed to be funded by real property tax revenues within a single fiscal year.
- The ***Capital Reserve (CRF)*** method requires appropriations over more than one year, with the actual project being accomplished only when the total appropriations meet the project cost.
- ***Lease/Purchase (LP)*** method has been used by the School District and other departments for the purchase of major vehicles.
- ***Bonds (BD)*** are generally limited to the most expensive capital projects, such as major renovations, additions, or new construction of school or municipal buildings or facilities, and allow capital facilities needs to be met immediately while spreading out the cost over many years in the future.
- ***Fund Balance (FB)*** may be used to finance capital projects as approved by Town Meeting.
- ***Impact fees (IF)*** are collected from new development to pay for new facility capacity and placed in a fund until they are either expended within six years as part of the project finance or they are returned to the party they were collected from.
- ***Grants (GR)*** are also utilized to fund capital projects in Bow. Typically, grants will cover a portion of the overall project cost, and the Town is responsible for the remaining percentage of the project cost.
- ***Tax Increment Financing (TIF)***. TIF Districts allow the Town to use increases in valuation of property to directly pay off bonds for infrastructure improvements and capital projects in the district. TIF Districts are set up and administered according to NH RSA's, Chapter 162-K.
- ***Public/Private Partnerships (PPP)*** Lastly, the Town can take advantage of ***Public/Private Partnerships***, where a private organization shares the costs of funding a capital project.
- ***To Be Determined (TBD)*** Uncertain of cost, funding or project timeline.

## Identification and Evaluation of Town's Capital Needs

The Bow CIP Committee uses worksheet forms that are filled out annually and submitted by the Town Manager and Select Board, Library Trustees, and School Board to identify potential capital needs and explain these project requests. Forms are tailored by the CIP Committee and the Finance Department to generate information that defines the relative need and urgency for projects, and which also enables long-term monitoring of the useful life and returns from projects. The CIP submittal form is included in Appendix B. After written descriptions of potential capital projects are submitted, requestors are asked to come before the CIP Committee, as needed, to explain their capital needs and priorities and to explore with the CIP Committee the alternative approaches available to achieve the optimum level of capital needs and improvements.

The CIP Committee evaluates the submitted requests and assigns them to the six-year schedule according to the priority of all capital requests. The following pages describe each of the requests that have been placed in the six year CIP program for projects exceeding \$ 25,000, and include: spreadsheets of the schedule, funding sources, tax impacts, and other required information. There are several projects included in this plan that fall below the \$25,000 threshold due to them being included and contributions being made to the Capital Reserve Funds prior to establishment of the CIP Committee. Projects not meeting either CIP criteria or projected six year window are identified as possible future projects.

## Priority System

The Committee has established a system to assess the relative priority of projects requested by the various departments, boards, and committees. Each proposed project is individually considered by the Committee and assessed a priority rank based on the descriptions below:

- **Priority 1 – Urgent:** Cannot Be Delayed: Needed immediately for health & safety
- **Priority 2 - Necessary:** Needed within 3 years to maintain basic level & quality of community services.
- **Priority 3 - Desirable:** Needed within 4-6 years to improve quality or level of services.
- **Priority 4 - Deferrable:** Can be placed on hold until after 6 year scope of current CIP, but supports community development goals.
- **Priority 5 - Premature:** Needs more research, planning & coordination
- **Priority 6 - Inconsistent:** Contrary to land-use planning or community development goals.

CAPITAL RESERVE FUNDS			
<u>Fund</u>	<u>Town Meeting/Article No</u>	<u>Purpose</u>	<u>Agents To Expend</u>
Cemetery Development	2001/18 and 2003/25	Purchasing land, conceptualizing, designing, and constructing cemeteries or additions to cemeteries.	Town Meeting
Fire Department Equipment	1957/7	Fire Department equipment.	Town Meeting
Fire Trucks	1996/16 and 2009/16	The purchase and replacement of Fire Dept vehicles with truck chassis including pumper trucks, ladder trucks, tanker trucks, forestry trucks, rescue trucks, and ambulances	Town Meeting
Bridge and Highway Construction	2003/39	Future highway construction projects.	Town Meeting
Land Purchase	2005/26	Purchasing future land or "other interests in land".	Selectmen
Municipal Buildings and Grounds	2006/15	Municipal buildings and grounds capital maintenance and repair.	Town Meeting
Parks & Recreation Improvements	2015/21	Parks & Recreation Improvements.	Town Meeting
Police Department Equipment	1971/10	Replacing Police Department equipment.	Town Meeting
Public Safety Building	2000/23 and 2006/19	Public Safety Building Capital Reserve Fund.	Town Meeting
Highway/Public Works Equipment	1977/9	Purchase of new or replacement of existing highway equipment.	Town Meeting
Municipal Facilities Emergency Repair	2015/27	Providing funds to address unforeseen emergency or urgent repairs	Selectmen
Sewer System	Oct 9.2008 BOS RSA 35:7 & 149-I:10	Major capital additions, replacements, and improvements to wastewater system, including sewer lines and other infrastructure, pumping stations and other facilities, land and easements, and equipment	Selectmen
Bridge	2009/12	Constructing, replacing, and rehabilitating bridges and culverts which provide water crossings	Selectmen
Library Lower Level	2012/20	Renovating lower level of Baker free Library	Library Trustees
Public Safety Building	2006/19		Town Meeting
Community Building	2017/13	Repair, renovation, replacement, or removal of the Community Bldg	Town Meeting
Library Building Maintenance	2017/14	Library building and grounds maintenance and repair	Town Meeting
Bow School District (Elementary/Memorial Schools)	1992	Construction, reconstruction or renovations of Bow Schools	District Meeting
Bow School District (HVAC)	1996		District Meeting
Bow High School Capital Improvements	2000		District Meeting
Bow School District Paving	2006/15	Paving in the Bow School District	District Meeting
Bow School District AREA School Improvements	2015/3		District Meeting
<b><u>Trust Funds</u></b>			
Library Emergency Repairs			Library Trustees
Private Water Well Pollution Mitigation			Selectmen
Health Reimbursement	2017/8	Paying the Town's share of healthcare deductibles for covered employees and their families	Selectmen

## Listing of Projects by Priority

### **Priority 1 - Urgent: Cannot Be Delayed: Needed immediately for health & safety**

#### **FY2018-19**

- Community Building .....Page 22
- Library HVAC Handlers Replacement.....Page 26
- Bow Junction Water Main Extension .....Page 27

### **Priority 2 – Necessary: Within 3 Years to Maintain Basic Level & Quality of Community Services.**

#### **FY2018-19**

- Annual Road Construction.....Page 28
- School Bus Lease Purchase .....Page 30
- Salt Shed Construction.....Page 31
- Hanson Park Irrigation Well .....Page 38
- River Road Culvert Replacement .....Page 39
- Municipal Building Insulation Installation .....Page 40
- South Bow Road Culvert(s) Replacement .....Page 41
- Bathroom(s) Renovations – Municipal Building.....Page 42
- Heat/AC - Old Town Hall .....Page 43
- Sewer Meter Installation .....Page 44

#### **FY2019-20**

- River Road/Rte. 3A Intersection Re-construction .....Page 45
- Parking Lot and Drainage Installation - Municipal Building .....Page 46
- ADA Compliance - Town Buildings .....Page 47
- Recreation Storage Building – Hanson.....Page 48

- Elementary School Architect ..... Page 49

**FY2020-21**

- Page Road Drainage..... Page 50
- Fueling System – DPW..... Page 51
- Elementary School Renovation..... Page 52

**Priority 3- Desirable: Needed within 4-6 years to improve quality or level of services.****FY2021-22**

- Bow Bog Road Culvert..... Page 53
- Heating System – Municipal Building..... Page 54
- Electrical System – Municipal Building ..... Page 55

**FY2022-23**

- Page Road Culvert – Br. London Tpk west ..... Page 56
- St. Cyr Playground Equipment – Phase I..... Page 57

**FY2023-24**

- St. Cyr Playground Equipment – Phase II ..... Page 57
- Library Emergency Generator ..... Page 58
- Page Road Bridge ..... Page 59

**Priority 4- Deferrable: Can be placed on hold until after 6 year scope of current CIP, but supports community development goals.****Priority 5 - Premature: Needs more research, planning & coordination**

- Sewer System Activation..... Page 60

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: *Community Building*

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR: 2018 - 2019

*ESTIMATED LIFE:* 30 Years

CRF Account:

*Future Cost\*:*

Estimated Inflation Rate: 0.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$ 100,000	GF	-----	\$ 100,000
-----------------------------	------------	----	-------	------------

Project Year Estimated Cost	\$	100,000	-----	\$	-
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		\$ -
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[illegible]

		-----	\$ -
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[illegible][illegible][illegible]

Date Added:  ----- \$ -

Last Edit: \_\_\_\_\_ \$ \_\_\_\_\_

	\$	100,000
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**PROJECT DESCRIPTION AND JUSTIFICATION:** (To Enter CR/LF in Comments: Alt-Enter)

In 2013, the Town hired a licensed professional fire protection engineer and an electrical engineer to inspect the facility and prepare a compliance plan for submittal to the State Fire Marshal.

In 2015, the Board of Selectmen appointed the Recreational Needs Committee to determine the current and future building needs and options for renovation or replacement of the building. Funding in the amount of \$25,000 was approved at the 2015 Town Meeting and SMP Architecture was engaged by the Committee to determine program space needs, explore site options and create conceptual building and site plans. The consensus of the Committee was to move forward with plans to renovate the existing building. \$42,000 was approved at the 2016 Town Meeting to conduct a boundary survey, perform geotechnical testing and analysis develop conceptual building design and site plan options and cost estimates for the renovation of the existing building. A new committee was appointed by the Board of Selectmen to work on the project. Some members of the committee have experience in construction and had worked on the Public Safety Building project planning.

10/2017 - The Selectmen have determined that \$100,000 is the minimum amount needed to rehabilitated the building to bring it up to life safety code. If the work is not done, use of the facility for assembly will need to be reevaluated.

**BOW COMMUNITY BUILDING  
ESTIMATED COSTS OF RENOVATION OR REMOVAL  
9/19/17**

**BACKGROUND**

Proposals were presented to voters in 2013, 2014 and 2015, to construct a new safety center to house the Fire Department, Police Department and Emergency Management. Proposals were also presented to renovate the existing Fire Station/Community Building. All of these proposals failed.

In 2013, the State Fire Marshal's Office, conducted an inspection of the Community Building/Fire Station. The Town received a violation letter from the Fire Marshal and the Town was given three years to bring the building into compliance.

The required schedule set by the Fire Marshal was as follows:

- Engage the services of a New Hampshire licensed fire protection engineer, before August 1, 2013, to develop and submit a building and life safety plan, including engineered drawings, by September 15, 2013.
- The on-site sleeping quarters needed to be completely compliant by November 11, 2013.
- The building was required to be in total compliance by September 15, 2016.

The Town hired Robert Cummings, a licensed professional fire protection engineer, to prepare a compliance plan for submittal to the Fire Marshal. A plan was submitted, and approved, to move the sleeping quarters from the existing Fire Station to the Coffin Building. This was done at a cost of \$46,760.

In 2015, voters approved \$25,000 to hire a firm to develop the cost of options to renovate the Community Building or construct a new community building. SMP Architects was hired to perform a space needs assessment and develop conceptual plans. A committee was appointed to work with SMP on the needs assessment and to review conceptuials. SMP submitted its final report in April, 2016.

In 2016, voters approved \$42,000 to conduct a boundary survey, geotechnical site testing, and develop conceptual building design, site plan options and cost estimates, for the renovation of the Community Building. The survey was performed and geotechnical analysis was conducted. The geotechnical analysis determined that the site was suitable for the current building, as well as a potential new building.

**COST ESTIMATES FOR RENOVATION**

DPW Supervisor Todd Drew and Building Inspector Bob Pike have been asked to put together estimates to renovate the community building to meet all codes and accessibility requirements. They have met with various contractors to look at the building and to



determine estimates for the work that needs to be done to bring the building into compliance.

### **Life Safety Code Compliance**

Fire protection engineer Bob Cummings has prepared an updated compliance plan. The cost estimate, including a new hood and fire suppression for the kitchen, is \$117,250. The estimated cost w/out the kitchen is \$44,250.

### **Asbestos and hazardous materials removal**

RPF Associates, Inc. performed a survey of the Community Building as part of a study conducted by H.L. Turner Group, Inc. RPF also reviewed a report that they had previously submitted to the Town in 2009. The survey revealed asbestos-containing building materials, including 9" floor tile, transite wall panels, sink basin undercoating, and caulking. Limited spot testing of paint confirmed that lead paint is present on interior and exterior building components. Visual observation found included mercury containing switches and appliances assumed to contain Freon of other CFCs.

Depending upon the extent of renovation, abatement and management of all hazardous materials will be required. Renovation plans will need to be reviewed by a certified industrial hygienist and a licensed project designer. A management plan will need to be prepared to address any hazardous material schedule to remain after construction.

A rough estimate for remediation of only the asbestos wall panels is \$75,000 if the building is unoccupied; \$100,000 +/- if occupied.

### **ADA compliance**

Cheryl Killam, an Americans with Disabilities Act (ADA) compliance consultant, met with Town representatives in 2014 to inspect the building in order to determine compliance with ADA requirements. As a result of the study, handicapped parking spaces were moved, as well as items that could be accomplished immediately.

- The men's and women's bathrooms need to be renovated for compliance. The estimate for this is \$30,000.
- The kitchen sink and counter need to be lowered (cost unknown)
- Light switches are too high and need to be lowered (cost to move included in electrical).
- There are no accessible routes to either side of stage

### **Electrical**

Electrician Mark Aucoin determined that he cannot give an accurate estimate without having a construction plan. His rough estimate is \$75,000 to \$100,000.

Also, the code requires that the generator be moved at least five feet away from the building. It is recommended that a new generator be purchased and installed at an estimated cost of \$40,000. It is recommended that the existing fuel tank inside of the building be removed (cost?)

### **Heating**

Estimate from Tom Prescott is \$150,000 due to unknowns (\$100,00 plus \$50,000 contingency).

### **Other factors for consideration**

Construction plans need to be drawn up and a general contractor hired to manage the project.

Need to determine costs for interior and exterior painting, insulation, exterior siding, block fill front bay openings, energy efficiency measures, problems with wet basement, water system needs

### **COST ESTIMATE FOR DEMOLITION**

Estimated cost for complete demolition, including filling basement, removal of slab, fill and grading, is \$89,750. This estimate does not include any removal of pavement and grading of complete site.

Demolition plans will need to be reviewed by a certified industrial hygienist and a licensed project designer and a remediation plan needs to be developed. The cost of removal and disposal is unknown without the remediation plan.

Other costs will include to disconnect electric panel (\$2,000 +/-), removal of natural gas supply (cost unknown), new water supply for Coffin building (\$10,000), removal of generator fuel tank (unknown), removal of oil/water separator (unknown).

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: AC &amp; Handlers Replacement

DEPARTMENT: Library

EXPENDITURE YEAR: 2018 - 2019

ESTIMATED LIFE: 20 Years

CRF Account: Library

Future Cost\*:

Estimated Inflation Rate: 0.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	50,000	GF	\$	50,000
Project Year Estimated Cost	\$	50,000		\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
Project Added:				\$	-
Last Edit:				\$	-
				\$	50,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

The Library's Air Conditioning and Air Handling Units for the main floor of the library, installed during the 1999/2000 renovation and addition project, need to be replaced due to the discontinued production of Refrigerant 22 by the EPA as of 2020. As of right now, June 2017, the production of R22 in the US has been cut by 80%. With the production of R22 slated to be discontinued in the US as of 2020, many parts for R22 units are also not being produced in quantities to meet demand, and their price have also increased. As of 6/14/17, the Trustees have quotes within the estimated cost of \$50,000 for this project.

# CAPITAL IMPROVEMENT PROJECT SHEET

**PROJECT TITLE:** *Bow Junction Water Main Ext.*

DEPARTMENT: *Public Works Department*

<b>EXPENDITURE YEAR:</b>		<b>ESTIMATED LIFE:</b>		<b>Years</b>
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CRF Account:

*Future Cost\*:*

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Date Added:

Last Edit:

**PROJECT DESCRIPTION AND JUSTIFICATION:** *(To Enter CR/LF in Comments: Alt-Enter)*

One of the ongoing goals of the Board of Selectmen has been to develop a potable water source for the Bow Junction area. Options include:

A. The primary solution has been is to enter into an inter-municipal agreement with the City of Concord that would allow the Town of Bow to install water mains on Route 3A and Hall Street and connect them to the City's water supply system. Estimated cost: \$1,314,000

B. The second potential solution is to install new mains and tie them in the Town's water system. The 2014 estimated cost for this option is \$5.3 million, which does not include the cost of land purchase for the siting of a second water storage tank.

C. Drill new wells.

State grant funding may be available for any of these options through the MBTE settlement fund.

[illegible]

Paving Schedule Included in Appendix.

Road Paving Schedule						
<b>Paving - 2017</b>	Length	Year	Year	Length	Total Tons	Total Cost
	in Miles	Constructed	Last Paved	in Feet	@ 2 inches	@ \$ 80 / ton
Foote Road	0.44		2003	2,323.20	958.32	\$85,000
Everett Avenue	0.13	1974	1994	686.4	102.96	\$8,237
Northeast Avenue	0.07	1969	1994	369.6	101.64	\$8,131
Tally Ho Lane	0.08	1970	1994	422.4	116.16	\$9,293
Hemlock Road	0.101	1974	1999 Rehab.	533	148.53	\$11,900
Westgate Drive	0.21	1974	2003 Rehab.	1,108	308.98	\$14,725
Surrey Drive	0.24		1999 Rehab.	1,267	353.07	\$28,250
Old Coach Road/Surrey Coach Lane	0.739	1971		3,901.92	1,073.03	\$85,842
Whiterock Hill Rd -- Back Side	0.74	1980	2005	3900	1087	\$86,943
Beaver Brook Road	0.34	1980	2002	1,795.20	493.68	\$39,494
Crockett Drive	0.3	1977	2002	1584	441	\$35,313
Colonial Terrace	0.076		1998	401.28	55.87	\$4,469
Totals					5185	\$417,597
<b>Paving -2018</b>	Length	Year	Year	Length	Total Tons	Total Cost
	in Miles	Constructed	Last Paved	in Feet	@ 2 inches	@ \$ 80 / ton
South Bow Rd	2.71	1981	2015	14,308.80	3987.38	\$318,990
Turee View Drive	0.95			5016	1397.79	\$111,823
Totals					5956	\$430,813
<b>Paving -2019</b>	Length	Year	Year	Length	Total Tons	Total Cost
	in Miles	Constructed	Last Paved	in Feet	@ 2 inches	@ \$ 80 / ton
Allen Rd	2.24		2004	11,827	3295	\$263,667
Merrill Crossing	0.399	1995	1996	2,106.72	579.35	\$46,348
Abby Ln	0.47		2003	2481.6	692	\$55,360
Colby Ln	0.28		2003	1478.4	412	\$32,960
Lincoln Drive	0.29	1969		1,531.00	426.6	\$34,131
Juniper Drive	0.06	1969		317	88	\$7,067
Totals					6140	\$439,533

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: FY 18-19 Bus Lease-Purchase

DEPARTMENT: SAU

EXPENDITURE YEAR: 2018 - 2019

ESTIMATED LIFE: 11 Years

CRF Account: General Fund

Future Cost\*:

Estimated Inflation Rate: 0.00%

Current Year Estimate Cost \$ 100,000 GF ----- \$ 100,000

Project Year Estimated Cost \$ 100,000 ----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ -

----- \$ 100,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

Continual purchase through the budget process of school buses for the Bow School District transportation fleet. These purchases are accomplished through five year lease arrangements with an expected life of each school bus of 11-14 years depending on use. There are ongoing replacements that take place based on school bus fleet numbering 22 total vehicles.

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Salt Shed ConstructionDEPARTMENT: Public Works DepartmentEXPENDITURE YEAR: 2018 - 2019ESTIMATED LIFE: 50 YearsCRF Account: Municipal Buildings and Grounds

<u>Estimated Inflation Rate:</u> 0.00%		<u>Future Cost*:</u>	
		* If Greater Than 20 Years	
Current Year Estimated Cost	\$ 440,000	CRF	\$ 440,000
Project Year Estimated Costs	\$ 440,000		\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
<u>Date Added:</u>			\$ -
<u>Last Edit:</u>			\$ -
			\$ 440,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

FY 16/17: This project is to replace the existing salt shed and uncovered mixing area with a new 60' x 40' salt shed with an attached covered 32' x 38' mixing area. The current facility is located within the Town's wellhead protection area, and has no floor. The new building will have a floor and will have a subsurface holding tank to prevent salt from spreading and entering the aquifer.

6/2017: A re-evaluation of this project was reviewed by Foreman Noel Gorley and Foreman Todd Drew. They were tasked to see if there was a less expensive design to use as a replacement salt shed for the town and viewed multiple facilities. Their final recommendation was to continue forward with the design by Dubois & King. See attached report.



### Salt Shed reviews by Noel Gourley and Todd Drew

The Town Manager requested that the DPW make some site visits to see if there was a less expensive design that could be used as a replacement salt shed for the Town of Bow

On June 5<sup>th</sup> Noel and Todd made site visits to the towns of Nottingham, Laconia and Northfield to review their salt shed designs.

Their findings are as follows,

- Tarp style sheds can only be accessed from the end portion of each building which would not fit in our “Foot Print Area” and provide safe and efficient loading of trucks
- Tarp style sheds have metal framing that will rust out and require replacement
- Concrete block systems are vulnerable to be moved as pressure is pushed by loader force.
- Damaged tarps are not easily repaired and subjecting the salt to dilution by snow and rain will cause concern of elevated sodium Chloride contamination in the well head protection area

Nottingham –

- 3 sheds
- Manufacturer – Coverall --- ( **Out of Business, No parts available** )
- All have extensive tears and extensive frame rust

Laconia –

- 2 sheds
- Manufacturer – Rubb Building Systems- ( **Made in UK** )
- Ground mounted on one row of Concrete Blocks
- Salt has to be shoveled away from the steel structure to prevent rusting on a regular basis.

Northfield -

- 1 shed
- Manufacturer- Iron Horse Structures
- Built on Concrete blocks – Blocks have moved by excessive force ( **PUSHED BY LOADER** )
- Extensive tears in tarp – frame base rusted

### Final recommendation by the Bow Public Works Department.

Continue with the Salt Shed that was designed by our Engineering firm DuBois and King and know that the Salt Shed Structure will last the Town of Bow for well over 50 years and that The Wellhead Protection Area has been diligently protected from our sources of Sodium Chloride Storage .

---

**From:** Mattus, Dan [mailto:DMattus@Rhwhite.com]

**Sent:** Monday, July 17, 2017 8:57 AM

**To:** Tim Sweeney

**Cc:** Burkett, Eric

**Subject:** Salt Storage

Hi Tim,

Eric wanted me to get in touch with you regarding a bulk salt storage facility. It is my understanding that a new storage facility is in the works. I would highly recommend the facility be fully covered due to possible groundwater contamination from runoff. I used to take care of the Chester, NH public water supplies. They had an uncovered salt pile that contaminated some nearby wells. The levels may take decades to drop and there is no practical treatment for a well impacted by sodium/chloride.

-

The raw water levels are already elevated for sodium (230 mg/l) and chloride. Would the town be using sodium chloride or calcium chloride for de-icing? Just wanted to chime in and hope this information is useful. I am available anytime at 508-612-5583 if you have any questions.

Thanks,

Dan

-



**Daniel Mattus**  
**Operations Supervisor**  
**Cell: 508-612-5583**

**Main Operations Office**  
253 B Worcester Road | Charlton, MA 01507  
Phone: 888-377-7678 | Fax: 508-248-2895

[www.whitewateronline.com](http://www.whitewateronline.com)

AA/EOE



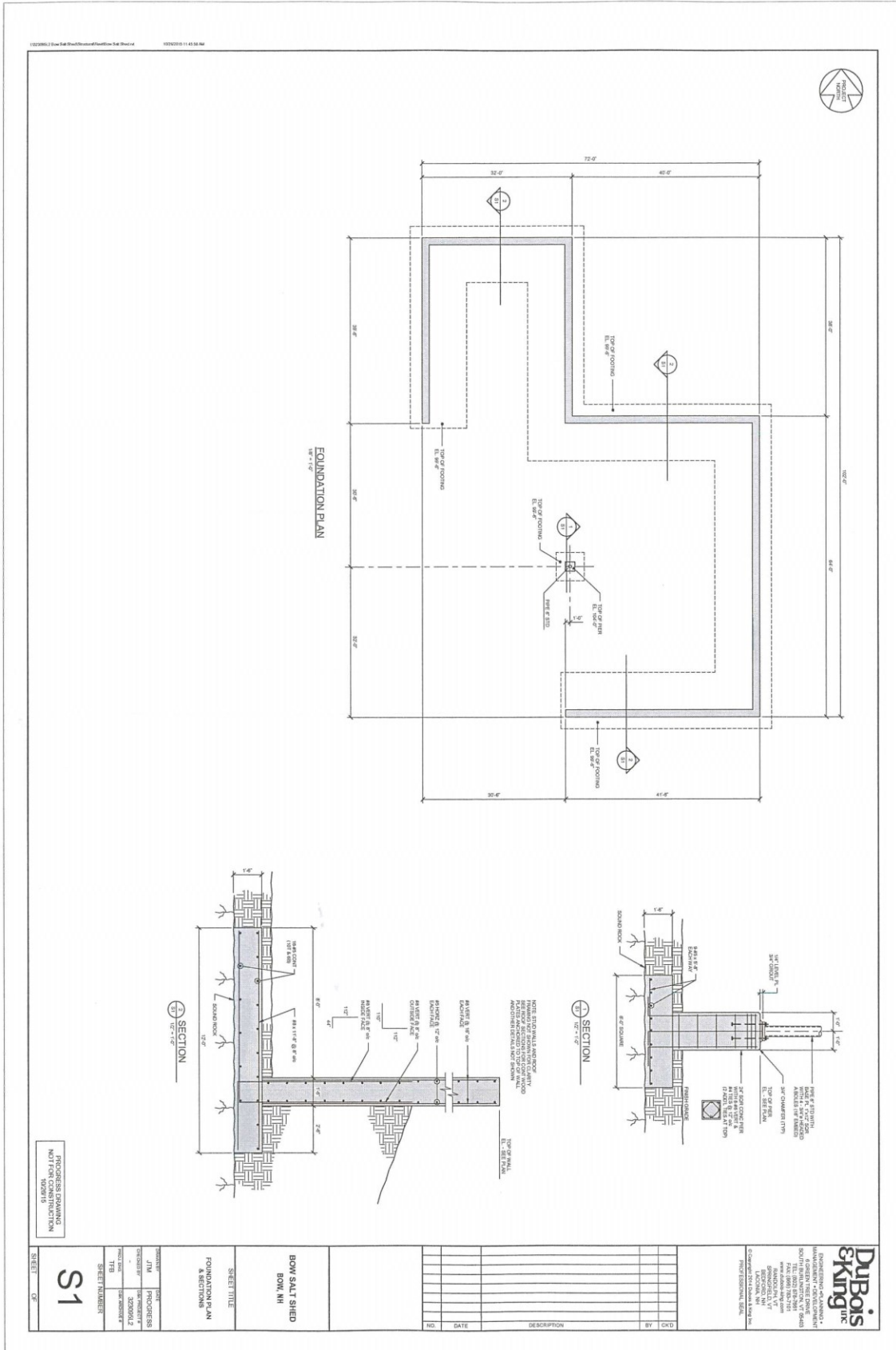
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**Dubois & King****Bow Salt Shed**

11/9/2015

Division	Description		
1	General Conditions	\$	70,000 (3 months)
3	Concrete	\$	170,000
5	Steel	\$	17,500
6	Carpentry	\$	80,000
7	Roofing	\$	60,000
9	Painting	\$	2,500
		\$	400,000
	Contingency 10%	\$	40,000
		\$	440,000









## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Hanson Park Irrigation Well

DEPARTMENT: Parks and Rec

EXPENDITURE YEAR: 2018 - 2019

ESTIMATED LIFE: 25 Years

CRF Account: Parks and Recreation Improvements

Estimated Inflation Rate: 0.00%		Future Cost*:	
		* If Greater Than 20 Years	
Current Year Estimated Cost	\$ 30,000	CRF	\$ 30,000
Project Year Estimated Cost	\$ 30,000		\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
Project Added:			\$ -
Last Edit:			\$ -
			\$ -

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

FY 16/17: Future sprinkler expansions will require additional water consumption. The two current wells produce six gallons per minute each and we expect that recovery during the hot summers will be a concern with recovery demand.

FY 17/18: Recommendation to install an additional artesian well for current and future sprinkler expansions that will require additional water consumption. The two current wells produce 12 gallons per minute combined (6 GPM each). The current system demand to irrigate each field simultaneously is 70 GPM. During the hot summer months, recovery demand is of concern.

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: River Road Culvert Boat Ramp

DEPARTMENT: Public Works Department

ESTIMATED LIFE: 50 Years

CRF Account: Bridge and Highway

Future Cost\*:

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	50,000	CRF	-----	\$	50,000
Project Year Estimated Cost	\$	50,000		-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
<a href="#">Date Added:</a>				-----	\$	-
<a href="#">Last Edit:</a>				-----	\$	-
					\$	50,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

FY17/18 4' by 80' Steel Culvert. Flow Line has deteriorated. DPW Staff is now Certified by DES to replace culverts up to four feet in diameter. This certification system by DES ultimately reduces the project cost in half. Project will require hiring a contractor with a very large excavator and ten wheel dump trucks to move materials expediently to assist DPW Staff.

8/2016 - Cost revised from \$52,000 to \$50,000. The CIP Committee moved the project out one year.



# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: *Municipal Bldg Insulation*

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR: 2018 - 2019

*ESTIMATED LIFE:* 99 Years

CRF Account: *Municipal Buildings and Grounds*

*Future Cost\**:

Estimated Inflation Rate: 0.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	75,000	CRF	-----	\$	75,000
-----------------------------	----	--------	-----	-------	----	--------

Project Year Estimated Cost	\$	75,000	-----	\$	-
-----------------------------	----	--------	-------	----	---

[illegible]

			-----	\$ -
--	--	--	-------	------

		-----	\$ -
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----- \$ -

			-----	\$ -
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Date Added: \_\_\_\_\_ \$ -

Last Edit: \_\_\_\_\_ \$ -

\$ 75,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

The vermiculite insulation in the attic has been tested and found to contain asbestos. This insulation will be removed and replaced with new insulation which will increase the building's energy efficiency. The building roof was replaced in fy 16 - 17.

9/2016 - The CIP Committee moved the project out one year.

<u>PROJECT TITLE:</u>	South Bow Road Culverts (3)					
<u>DEPARTMENT:</u>	Public Works Department					
<u>EXPENDITURE YEAR:</u>	2018 - 2019		<i>ESTIMATED LIFE:</i>		50	Years
<u>CRF Account:</u>	Bridge and Highway					
			<i>Future Cost*:</i>			
<u>Estimated Inflation Rate:</u>	0.00%		<i>* If Greater Than 20 Years</i>			
Current Year Estimated Cost	\$	120,000	CRF	-----	\$	120,000
Project Year Estimated Cost	\$	120,000		-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
<u>Date Added:</u>				-----	\$	-
<u>Last Edit:</u>				-----	\$	-
					\$	120,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This project will replace three thirty inch culverts on South Bow Road in conjunction with road paving. DPW Staff is now Certified by DES to replace culverts up to four feet in diameter. This certification system by DES ultimately reduces the project cost.

<b>PROJECT TITLE:</b>		Bathrooms - Municipal Building			
<b>DEPARTMENT:</b>		Public Works Department			
<b>EXPENDITURE YEAR:</b>		2018 - 2019	<b>ESTIMATED LIFE:</b>		50 Years
<b>CRF Account:</b>		Municipal Buildings and Grounds			
<b>Estimated Inflation Rate:</b>		0.00%	<b>Future Cost*:</b>		
			<b>* If Greater Than 20 Years</b>		
Current Year Estimated Cost	\$	25,000	CRF	-----	\$ 25,000
Project Year Estimated Cost	\$	25,000		-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
<b>Date Added:</b>				-----	\$ -
<b>Last Edit:</b>				-----	\$ -
					<b>\$ 25,000</b>

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This is a complete update of the two bathrooms on the main floor of the Municipal Building. Included in this project are the replacement of the existing partitions, new sheet rock and tile, permanently blocking old toilet connections, new fixtures including ADA compliant mirrors and towel dispensers, new energy efficient light fixtures and the installation of a second urinal in the men's room.

9/2016 - The CIP Committee moved the project out one year.

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: HVAC System Old Town HallDEPARTMENT: Public Works DepartmentEXPENDITURE YEAR: 2018 - 2019ESTIMATED LIFE: 15 YearsCRF Account: Municipal Buildings and Grounds

		<u>Future Cost*:</u>		
<u>Estimated Inflation Rate:</u> 0.00%		* If Greater Than 20 Years		
Current Year Estimated Cost	\$ 30,000	CRF	-----	\$ 30,000
Project Year Estimated Cost	\$ 30,000		-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
<u>Date Added:</u>			-----	\$ -
<u>Last Edit:</u>			-----	\$ -
				\$ 30,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This project will replace the existing air conditioning/heating unit at the Old Town Hall with a ductless air conditioner and heat pump system. The system will provide the building with a combined air conditioning and heating system. The system is composed of three main components: an outdoor unit, an indoor mounted evaporator unit, and a wireless remote controller. This system is up to 40% more efficient than a conventional system. The Town is currently using these systems at the Bow Municipal Building.

9/2016 - Cost revised from \$25,000 to \$30,000

9/2016 - The CIP Committee moved the project out one year.

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Sewer Meter Installation

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR: 2018 - 2019

*ESTIMATED LIFE:* 10 Years

CRF Account: *Sewer*

*Future Cost\*:*

Estimated Inflation Rate: 0.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	128,000	CRF	-----	\$	128,000
-----------------------------	----	---------	-----	-------	----	---------

Project Year Estimated Cost	\$	128,000	-----	\$	-
-----------------------------	----	---------	-------	----	---

----- \$ -

	-----	\$ -
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----- \$ -

----- \$ -

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[illegible]

Date Added: \_\_\_\_\_ \$ -

Last Edit: \_\_\_\_\_ \$ -

	\$	128,000
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PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

One of the recommendations in the 2011 Sewer Rate Study conducted by Underwood Engineers was to “Install water meters on all services and switch to a water consumption-based rate structure.” Once the meters are installed, the current billing structure for sewer service would be changed from the current system, which is based on “sewer units”, to a water consumption based structure for billing.

In 2014, the Town's system operator, WhiteWater, provided a cost estimate to install water meters for customers that are currently connected to the Town's sewer system but not the public water supply. The cost per meter is either \$655.10 (5/8" meter) or \$842.75 (1" meter) and this includes the meter, permits and installation. There are currently 151 sewer customers which would result in a total project cost of approximately \$128,000 if all of the meters installed are 1" meters, however most residential properties should only require a 5/8" meter.

<b>PROJECT TITLE:</b>		River Rd-Rte 3A Intersection			
<b>DEPARTMENT:</b>		Public Works Department			
<b>EXPENDITURE YEAR:</b>		2019 - 2020	<b>ESTIMATED LIFE:</b>		20 Years
<b>CRF Account:</b>		Bridge and Highway			
<b>Estimated Inflation Rate:</b>		2.00%	<b>Future Cost*:</b>		
			<b>* If Greater Than 20 Years</b>		
Current Year Estimated Cost	\$	250,000	CRF	-----	\$ 255,102
Project Year Estimated Cost	\$	255,102		-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
<b>Date Added:</b>				-----	\$ -
<b>Last Edit:</b>				-----	\$ -
					<b>\$ 255,102</b>

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This project is to re-construct the intersection to improve turning radiuses, improve visibility and provide a safer entry for vehicles and trucks heading on to Rte, 3A. The Town will apply for State Highway Aid for this project.

9/2016 - The CIP Committee moved the project out one year.

PROJECT TITLE: *Municipal Building Drainage*

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR: 2019 - 2020

*ESTIMATED LIFE:* 50 Years

CRF Account: *Municipal Buildings and Grounds*

*Future Cost\**:

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	90,000	CRF	-----	\$	91,837
Project Year Estimated Cost	\$	91,837		-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
<a href="#">Date Added:</a>				-----	\$	-
<a href="#">Last Edit:</a>				-----	\$	-
					\$	91,837

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This project includes the installation of sub-surface drainage where needed and reclamation and paving of the driveways and parking lots at the Municipal Building. Total area is approximately 44,300 square feet.

9/2016 - The CIP Committee moved the project out one year.

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: ADA ProjectsDEPARTMENT: Public Works DepartmentEXPENDITURE YEAR: 2019 - 2020ESTIMATED LIFE: 99 YearsCRF Account: Municipal Buildings and Grounds

		<u>Future Cost*:</u>		
<u>Estimated Inflation Rate:</u>	2.00%	<i>* If Greater Than 20 Years</i>		
Current Year Estimated Cost	\$ 25,000	CRF	-----	\$ 25,510
Project Year Estimated Cost	\$ 25,510		-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
<u>Date Added:</u>			-----	\$ -
<u>Last Edit:</u>			-----	\$ -
				\$ 25,510

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

FY 17/18: In October of 2015, the Town conducted an inspection of the Municipal Office Building, Community Building, Fire Station and Police Station to determine the facilities compliance with Americans with Disabilities Act (ADA) accessibility requirements to review the accessibility of the facilities. The findings were compiled into a report (dated 5/1/16) that includes the findings and recommended remediation measures that were prioritized based on a set of criteria found in the report. This funds well be used to address more items in the report. An updated copy of the report is attached.

9/2016 - The CIP Committee moved the project out two years.



## CAPITAL IMPROVEMENT PROJECT SHEET

**PROJECT TITLE:** Hanson Park Storage Building

**DEPARTMENT:** Parks and Rec

**EXPENDITURE YEAR:** 2019 - 2020

**ESTIMATED LIFE:** 50 Years

**CRF Account:** Parks and Recreation Improvements

		<b>Future Cost*:</b>	
Estimated Inflation Rate:	2.00%	* If Greater Than 20 Years	
Current Year Estimated Cost	\$ 50,000	CRF	\$ 51,020
Project Year Estimated Cost	\$ 51,020		\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
Project Added:			\$ -
Last Edit:			\$ -
			\$ 51,020

**PROJECT DESCRIPTION AND JUSTIFICATION:** (To Enter CR/LF in Comments: Alt-Enter)

The project is the construction of a new 40'X24' structure with sliding barn style doors on a concrete slab with rough cut siding (barn board). L-Lap. The building will be used this for storing fertilizer, tractors & mower in the summer along with all implements and field equipment. This would decrease liability from road travel, decrease travel time, resulting in more efficient use of time. Equipment would be assessable at the fields, where it is needed and all equipment would be under cover when not in use. The life span of the equipment should increase with this new setup.

9/2016 - The CIP Committee moved the project out one year.

## CAPITAL IMPROVEMENT PROJECT SHEET

**PROJECT TITLE:** Elementary School Architect

**DEPARTMENT:** SAU

**EXPENDITURE YEAR:** 2019 - 2020

**ESTIMATED LIFE:** 25 Years

**CRF Account:** School District

**Future Cost\*:**

**Estimated Inflation Rate:** 0.00%

Current Year Estimated Cost	\$	300,000	CRF	-----	\$	300,000
Project Year Estimated Cost	\$	300,000		-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
Project Added:				-----	\$	-
Last Edit:				-----	\$	-
					\$	300,000

**PROJECT DESCRIPTION AND JUSTIFICATION:** (To Enter CR/LF in Comments: Alt-Enter)

Comprehensive Facility Assessment and Capital Improvement Study was undertaken and completed in January 2012. Back end components at BES are in some cases 30+ years old based on the original building having been constructed in 1979. Renovation would be similar to the 2005 renovation of BMS and will include HVAC upgrades, new roof, fire suppression system, new security and alarm system, lighting upgrades and plumbing upgrades. Figures are based on January 2012 facility study cost figures. Actual costs to be determined when project is bid out to contractors. Proposal is to request from voters funds from CRF to do all of the design, engineering, construction manager selection and other work needed to have plans and biddable documents. Those documents would be used to bid the project and have figures ready for the March 2020 Annual Meeting with work to commence in the summer of 2020.

<b>PROJECT TITLE:</b>		Page Road Drainage System			
<b>DEPARTMENT:</b>		Public Works Department			
<b>EXPENDITURE YEAR:</b>		2020 - 2021	<b>ESTIMATED LIFE:</b>		50 Years
<b>CRF Account:</b>		Bridge and Highway			
<b>Estimated Inflation Rate:</b>		2.00%	<b>Future Cost*:</b>		
			<b>* If Greater Than 20 Years</b>		
Current Year Estimated Cost	\$	250,000	CRF	-----	\$ 260,308
Project Year Estimated Cost	\$	260,308		-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
<b>Date Added:</b>				-----	\$ -
<b>Last Edit:</b>				-----	\$ -
					\$ 260,308
<b>PROJECT DESCRIPTION AND JUSTIFICATION:</b>			(To Enter CR/LF in Comments: Alt-Enter)		

10 Grandview Road Bow, New Hampshire 03304

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Fuel System ReplacementDEPARTMENT: Public Works DepartmentEXPENDITURE YEAR: 2020 - 2021ESTIMATED LIFE: 20 YearsCRF Account: Municipal Buildings and Grounds

		<u>Future Cost*:</u>		
<u>Estimated Inflation Rate:</u>	2.00%	<i>* If Greater Than 20 Years</i>		
Current Year Estimated Cost	\$ 110,000	CRF	-----	\$ 114,536
Project Year Estimated Cost	\$ 114,536		-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
<u>Date Added:</u>			-----	\$ -
<u>Last Edit:</u>			-----	\$ -
				\$ 114,536

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

The current fuel pump system is 21 years old. Due to its age, it is required to be inspected every 5 years. The inspection that was conducted in 2015 noted no deficiencies. The system will be inspected again in 4 years (2020), and if it needs to be replaced, the current estimate is \$110,000. The tank is certified through 2021 and at that point will have to be replaced in order to meet new regulations.

10/2016 - The CIP Committee moved the project forward one year.

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Elementary School Renovation

DEPARTMENT: SAU

EXPENDITURE YEAR: 2020 - 2021

ESTIMATED LIFE: 40 Years

CRF Account: School District and HVAC

Future Cost\*:

Estimated Inflation Rate: 0.00%

Current Year Estimated Cost \$ 3,850,000 CRF \$ 750,000

Project Year Estimated Cost \$ 3,850,000 BD \$ 3,100,000

\$ -

\$ -

\$ -

\$ -

\$ -

\$ -

Project Added: \$ -

Last Edit: \$ -

\$ 3,850,000

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

Comprehensive Facility Assessment and Capital Improvement Study was undertaken and completed in January 2012. Back end components at BES are in some cases 30+ years old based on the original building having been constructed in 1979. Renovation would be similar to the 2005 renovation of BMS and will include HVAC upgrades, new roof, fire suppression system, new security and alarm system, lighting upgrades and plumbing upgrades. Figures are based on January 2012 facility study cost figures. Actual costs to be determined when project is bid out to contractors. Proposal is to request from voters \$300,000 from the Bow School District Capital Reserve Fund established in March 1992 to do all of the design, engineering, construction manager selection and other work needed to have plans and biddable documents. Those documents would be used to bid the project and have figures ready for the March 2020 Annual Meeting with work to commence in the summer of 2020.

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Bow Bog Rd Culvert

DEPARTMENT: Public Works Department

ESTIMATED LIFE: 50 Years

<u>CRF Account:</u>	Bridge and Highway
---------------------	--------------------

Future Cost\*:

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	300,000	CRF	-----	\$	318,745
Project Year Estimated Cost	\$	318,745		-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
				-----	\$	-
<a href="#">Date Added:</a>				-----	\$	-
<a href="#">Last Edit:</a>				-----	\$	-
					\$	318,745

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

Replacement of the drainage culvert near the intersection of Bow Bog Road and Dean Avenue. The replacement culvert will be 5 feet in diameter and 50 feet long. Any culvert over 4 foot in diameter requires that an engineered plan be submitted to NH Department of Environmental Services for review and approval.

9/2016 - The CIP Committee moved the project out one year.

<b>PROJECT TITLE:</b>		Heating System Muni Bldg.			
<b>DEPARTMENT:</b>		Public Works Department			
<b>EXPENDITURE YEAR:</b>		2021 - 2022	<b>ESTIMATED LIFE:</b>		15 Years
<b>CRF Account:</b>		Municipal Buildings and Grounds			
		<b>Future Cost*:</b>			
<b>Estimated Inflation Rate:</b>		2.00%	<b>* If Greater Than 20 Years</b>		
Current Year Estimated Cost	\$	100,000	CRF	-----	\$ 106,248
Project Year Estimated Cost	\$	106,248		-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
<b>Date Added:</b>				-----	\$ -
<b>Last Edit:</b>				-----	\$ -
					<b>\$ 106,248</b>

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

Replacement of existing furnace and heating system with a new energy efficient system, including circulation pumps, pipes, registers and radiators. This upgrade will allow the building to be zoned for an even distribution of heat.

9/2016 - The CIP Committee moved the project out two years

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: *Electrical Upgrade Muni Bldg.*

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR: 2021 - 2022

*ESTIMATED LIFE:* 30 Years

CRF Account: *Municipal Buildings and Grounds*

*Future Cost\*:*

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	85,000	CRF	-----	\$	90,311
-----------------------------	----	--------	-----	-------	----	--------

Project Year Estimated Cost	\$	90,311	-----	\$	-
-----------------------------	----	--------	-------	----	---

----- \$ -

----- \$ -

----- \$ -

----- \$ -

**Total**

----- \$ -

Date Added: \_\_\_\_\_ \$ \_\_\_\_\_ -

Last Edit: \_\_\_\_\_ \$ \_\_\_\_\_

\$	90,311
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PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

The electrical system at the Municipal Building has been patched, modified and added to over the last number of years. The same conditions apply to telephone and computer wiring and cabling. This includes an upgrade to both systems and the removal of wiring, etc. that is no longer in use.

9/2016 - The CIP Committee moved the project out two years.



## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Page Rd Culvert Br London TPK WDEPARTMENT: Public Works DepartmentEXPENDITURE YEAR: 2022 - 2023ESTIMATED LIFE: 50 YearsCRF Account: Bridge and Highway

		<u>Future Cost*:</u>		
<u>Estimated Inflation Rate:</u> 2.00%		<u>* If Greater Than 20 Years</u>		
Current Year Estimated Cost	\$ 45,000	CRF	-----	\$ 48,787
Project Year Estimated Cost	\$ 48,787		-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
			-----	\$ -
<u>Date Added:</u>			-----	\$ -
<u>Last Edit:</u>			-----	\$ -
				\$ 48,787

PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This project is to replace the culvert located on Page Road at Branch Londonderry Turnpike West. The culvert is 5 feet in diameter and 60 feet long. This project will be done in conjunction with the road paving that is scheduled to be done at the same time.

## CAPITAL IMPROVEMENT PROJECT SHEET

**PROJECT TITLE:** St Cyr Playground Equip Phase 1 & 2

**DEPARTMENT:** Parks and Rec

**EXPENDITURE YEAR:** 2022 - 2023

**ESTIMATED LIFE:** 20 Years

**CRF Account:** Parks and Recreation Improvements

		<b>Future Cost*:</b>	
Estimated Inflation Rate:	2.00%	* If Greater Than 20 Years	
Current Year Estimated Cost	\$ 70,000	CRF	\$ 37,946
Phase 1		CRF	\$ 38,720
Project Year Estimated Cost	\$ 37,946		\$ -
Phase 2			\$ -
Project Year Estimated Cost	\$ 38,720		\$ -
			\$ -
			\$ -
			\$ -
Project Added:			\$ -
Last Edit:			\$ -
			\$ 76,666

**PROJECT DESCRIPTION AND JUSTIFICATION:** (To Enter CR/LF in Comments: Alt-Enter)

All playground equipment is recommended to be replaced after 20 years. Consideration should be taken as to what are the recommended materials and activities at the time of construction. Consideration should also be given to the protective material that is most recommended at the time of replacement. The timing of the replacement will be re-evaluated each year.  
10/2016 - The CIP Committee split the project over two years starting in 2022-23.

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Emergency Generator

DEPARTMENT: Library

EXPENDITURE YEAR: 2023 - 2024

ESTIMATED LIFE: 25 Years

CRF Account: Library

Future Cost\*:

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Current Year Estimated Cost	\$	32,000	CRF	\$	35,401
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Project Year Estimated Cost	\$	35,401		\$	-
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				\$	-
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				\$	-
--	--	--	--	----	---

				\$	-
--	--	--	--	----	---

				\$	-
--	--	--	--	----	---

				\$	-
--	--	--	--	----	---

				\$	-
--	--	--	--	----	---

Project Added:				\$	-
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Last Edit:				\$	-
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				\$	35,401
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PROJECT DESCRIPTION AND JUSTIFICATION: (To Enter CR/LF in Comments: Alt-Enter)

This is being requested to potentially allow the library to fulfill the need for an area of refuge within the community that is smaller than BHS, since we will have the space and resources necessary aside from the generator to meet that need now that the Lower Level Renovation is completed.

<b>PROJECT TITLE:</b>		Page Rd Bridge Replacement			
<b>DEPARTMENT:</b>		Public Works Department			
<b>EXPENDITURE YEAR:</b>		2023 - 2024		<b>ESTIMATED LIFE:</b> 50 Years	
<b>CRF Account:</b>		Bridge and Highway			
<b>Estimated Inflation Rate:</b>		2.00%		<b>Future Cost*:</b>	
		* If Greater Than 20 Years			
Current Year Estimated Cost	\$	830,700	CRF	-----	\$ 918,996
Project Year Estimated Cost	\$	918,996		-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
				-----	\$ -
<b>Date Added:</b>				-----	\$ -
<b>Last Edit:</b>				-----	\$ -
					<b>\$ 918,996</b>

8/2016 - Replace bridge on Page Road over Bela Brook.

State Bridge Aid Total:	\$708,240(in 2024)
State Aid Bridge Eng. Reimb:	\$ 42,800
Net return to CRF:	\$665,360

9/2016 - The CIP Committee moved the project out to the same year bidge aid is available per State requirements.

# CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE: Sewer System Activation

DEPARTMENT: *Public Works Department*

EXPENDITURE YEAR:  ESTIMATED LIFE:  Years

CRF Account:

*Future Cost\*:*

Estimated Inflation Rate: 2.00%

\* If Greater Than 20 Years

Category	Amount	Unit	Value
Category 1	1000	Unit 1	\$ 1000
Category 2	2000	Unit 2	\$ 2000
Category 3	3000	Unit 3	\$ 3000
Category 4	4000	Unit 4	\$ 4000
Category 5	5000	Unit 5	\$ 5000
Category 6	6000	Unit 6	\$ 6000
Category 7	7000	Unit 7	\$ 7000
Category 8	8000	Unit 8	\$ 8000
Category 9	9000	Unit 9	\$ 9000
Category 10	10000	Unit 10	\$ 10000
Date Added:			\$
Last Edit:			\$
			\$

**PROJECT DESCRIPTION AND JUSTIFICATION:** *(To Enter CR/LF in Comments: Alt-Enter)*

This project will complete the connection between the Route 3A Commercial/ Industrial Area sewer mains and the recently constructed Hall Street sewer pump station, allowing sewer service to be activated in the commercial/industrial area. The work includes a sewer pump station, force main and gravity sewer. In addition to conveying flows from the project area, new customers would be able to connect along the new sewers described below.

## Major project components:

- Construction of the River Road #1 sewer pump station - This station will receive all sewage flows from the project area and pump them over the high point between River Road and Grandview Road. The station will be nearly identical to the new Hall Street station.
- Sewer Force main - A dual force main will be extended approximately 4,500 feet from where it was terminated on River Road, along Route 3A to a point approximately 1,000 feet south of Grandview Road.
- Gravity Sewer - Gravity sewer will begin at the termination of the force main on Route 3A, run north to Grandview Road, along Grandview Road to Old Hill Road, and down Old Hill Road to Route 3A where it will terminate at a manhole just prior to the Hall Street pump station. The total length of gravity sewer is approximately 5,700 feet.

Summary of Capital Improvement Projects									
<b>Bridge and Highway Construction CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
River Road culvert - boat ramp	50,000	FY 2018-19	50	50,000					
So. Bow Road culverts (3)	120,000	FY 2018-19	50	120,000					
River Rd/Rte 3A intersection	250,000	FY 2019-20	50		255,102				
Page Road Drainage system	250,000	FY 2020-21	50			260,308			
Bow Bog Road culvert	300,000	FY 2021-22	50				318,745		
Page Road culvert - Br. London TPK West	45,000	FY 2022-23	50					48,787	
Page Road Bridge	830,700	FY 2023-24	50						918,996
Falcon Way/White Rock Hill Rd Intersect.	250,000	FY 2024-25	50						
River Road Bridge	909,400	FY 2025-26	50						
Birchdale Road Bridge	722,000	FY 2067-68	50						
White Rock Hill Culvert	TBD	TBD	50						
<b>Total:</b>	<b>3,727,100</b>			<b>170,000</b>	<b>255,102</b>	<b>260,308</b>	<b>318,745</b>	<b>48,787</b>	<b>918,996</b>
<b>Beginning Capital Reserve Balance*</b>				231,917	636,249	501,147	360,839	162,094	233,307
<b>Proposed Contribution</b>				120,000	120,000	120,000	120,000	120,000	120,000
<b>State Bridge Aid Reimbursement</b>									665,360
<b>Transfer from Highway CRF</b>				454,332					
<b>Proposed Expenditure</b>				(170,000)	(255,102)	(260,308)	(318,745)	(48,787)	(918,996)
<b>Ending Estimated Capital Reserve Balance</b>				636,249	501,147	360,839	162,094	233,307	99,671
<b>* includes Highway Construction CRF</b>									
<b>Bridge and Highway Construction CRF:</b>	231,917								
<b>Highway Construction CRF:</b>	454,332	(discontinued in 2017 and moved into the Bridge and Highway CRF)							
<b>Bridge CRF:</b>	226,256	(used primarily for preliminary design work, Selectmen are agents to expend)							

Summary of Capital Improvement Projects									
<b>Municipal Buildings and Grounds CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Salt shed	440,000	FY 2018-19	50	440,000					
Bathrooms - Muni Bldg.	25,000	FY 2018-19	50	25,000					
Municipal Bldg Insulation Project	75,000	FY 2018-19		75,000					
Heat/AC - Old Town Hall	30,000	FY 2018-19	15	30,000					
ADA Compliance - Town Buildings	25,000	FY 2019-20			25,510				
Parking Lot & Drainage - Muni Bldg	90,000	FY 2019-20	50		91,837				
Fueling System - DPW	110,000	FY 2020-21	20			114,536			
Heating System - Muni Bldg.	100,000	FY 2021-22	15				106,248		
Electrical System - Muni Bldg.	85,000	FY 2021-22	30				90,311		
<b>Total:</b>	<b>980,000</b>			<b>570,000</b>	<b>117,347</b>	<b>114,536</b>	<b>196,559</b>	<b>-</b>	<b>-</b>
<b>Beginning Capital Reserve Balance</b>				463,632	43,632	76,285	111,749	65,190	215,190
<b>Proposed Contribution</b>				150,000	150,000	150,000	150,000	150,000	150,000
<b>Proposed Expenditure</b>				(570,000)	(117,347)	(114,536)	(196,559)	-	-
<b>Ending Estimated Capital Reserve Balance</b>				43,632	76,285	111,749	65,190	215,190	365,190
<b>Municipal Facilities Emergency CRF:</b>	30,275	(Selectmen are agents to expend)							
<b>Community Center CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
<b>Total:</b>	<b>0</b>			-	-	-	-	-	-
<b>Beginning Capital Reserve Balance</b>				5,000	10,000	15,000	20,000	25,000	30,000
<b>Proposed Contribution</b>				5,000	5,000	5,000	5,000	5,000	5,000
<b>Proposed Expenditure</b>				-	-	-	-	-	-
<b>Ending Estimated Capital Reserve Balance</b>				10,000	15,000	20,000	25,000	30,000	35,000

## Summary of Capital Improvement Projects

<b>DPW Equipment Capital Reserve Fund</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
2002 Tractor	80,000	FY 2018-19	15	80,000					
Tractor Mow ing Attachment	35,000	FY 2018-19	15	35,000					
2005 6-Wheel Dump Truck (T-7)	172,000	FY 2018-19	15	172,000					
(New ) Pickup Truck, Bldg. Maint.	45,000	FY 2018-19	8	45,000					
2010 Pickup Truck, Parks&Rec	60,000	FY 2018-19	12	60,000					
Radios	50,000	FY 2018-19	8	50,000					
2007 6-Wheel Dump Truck (T-6)	172,000	FY 2019-20	15		175,510				
1993 Sullair compressor	15,000	FY 2019-20	25		15,306				
Field Shatter Tine Aerator (P&R)	30,000	FY 2019-20	20		30,612				
2009 Pickup Truck, Foreman	60,000	FY 2019-20	8		61,224				
2010 1-Ton Dump Truck (T-9)	85,000	FY 2020-21	8			88,505			
2008 6-Wheel Dump Truck (T-5)	172,000	FY 2020-21	15			179,092			
2008 6-Wheel Dump Truck (T-4)	172,000	FY 2021-22	15				182,747		
2009 6-Wheel Dump Truck (T-3)	172,000	FY 2022-23	15					186,477	
2012 1-Ton Dump Truck (T-10)	85,000	FY 2022-23	8					92,154	
2013 Backhoe	145,000	FY 2023-24	9						160,412
2014 Pickup Truck, PWD Dir.	25,000	FY 2024-25	10						
2010 6-Wheel Dump Truck (T-2)	172,000	FY 2024-25	15						
2000 Grader	350,000	FY 2025-26	20						
2014 6-Wheel Dump Truck (T-1)	172,000	FY 2026-27	15						
2014 Loader	200,000	FY 2026-27	12						
2008 John Deere Mow er (P&R)	25,000	FY 2026-27	10						
2016 Excavator	116,000	FY 2027-28	10						
2007 Jet & Vac	125,000	FY 2028-29	20						
2012 Chipper	50,000	FY 2029-30	20						
2017 10-Wheel Dump Truck (T-8)	210,000	FY 2032-33	15						
<b>Total:</b>	<b>2,995,000</b>			<b>442,000</b>	<b>282,652</b>	<b>267,597</b>	<b>182,747</b>	<b>278,631</b>	<b>160,412</b>
<b>Beginning Capital Reserve Balance*</b>				676,290	419,509	291,857	179,260	151,513	27,882
<b>Proposed Contribution</b>				155,000	155,000	155,000	155,000	155,000	155,000
<b>Transfer from Parks &amp; Rec Equip. CRF</b>				30,219					
<b>Proposed Expenditure</b>				(442,000)	(282,652)	(267,597)	(182,747)	(278,631)	(160,412)
<b>Ending Estimated Capital Reserve Balance</b>				419,509	291,857	179,260	151,513	27,882	22,470



Summary of Capital Improvement Projects									
<b>Police Equipment Capital Reserve Fund</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
2004 All-Terrain Vehicles (2)	8,600	FY 2018-19	10	8,600					
Video Monitoring Equipment	40,000	FY 2018-19	10	40,000					
Police Vehicle, Unit-3	36,000	FY 2018-19	8	36,000				39,030	
Police Vehicle, Unit-1 (Chief)	36,000	FY 2019-20	8		36,735				
Police Vehicle, Unit-2	36,000	FY 2019-20	8		36,735				39,827
Mobile and portable radios	42,000	FY 2020-21	6			43,732			
Police Vehicle, Unit-5 (K-9)	38,000	FY 2020-21	4			39,567			
Police Vehicle, Unit-4	36,000	FY 2020-21	4			37,484			
Police Vehicle, Unit-6	36,000	FY 2021-22	4				38,249		
Mobile Data Terminals (7)	44,163	FY 2022-23	5					47,880	
Police Vehicle Unit-7 (Detective)	36,000	FY 2022-23	6					39,030	
<b>Total:</b>	<b>352,763</b>			<b>84,600</b>	<b>73,470</b>	<b>120,783</b>	<b>38,249</b>	<b>125,940</b>	<b>39,827</b>
<b>Beginning Capital Reserve Balance</b>				94,022	79,422	75,952	25,169	56,920	980
<b>Proposed Contribution</b>				70,000	70,000	70,000	70,000	70,000	70,000
<b>Proposed Expenditure</b>				(84,600)	(73,470)	(120,783)	(38,249)	(125,940)	(39,827)
<b>Ending Estimated Capital Reserve Balance</b>				79,422	75,952	25,169	56,920	980	31,153
<b>Fire Truck Capital Reserve Fund</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Pumper (E-3)	650,000	FY 2019-20	15		663,265				
Ambulance (A-2)	240,000	FY 2020-21	10			249,896			
SUV (C-1)	45,000	FY 2021-22	10				47,812		
Forestry Truck	90,000	FY 2022-23	10					97,575	
Ambulance (A-1)	240,000	FY 2024-25	10						
Pumper (E-1)	650,000	FY 2024-25	15						
Rescue Truck (R-1)	200,000	FY 2027-28	20						
Tanker (T-1)	360,000	FY 2035-36	20						
Tanker (T-3)									
<b>Total:</b>	<b>2,475,000</b>			<b>-</b>	<b>663,265</b>	<b>249,896</b>	<b>47,812</b>	<b>97,575</b>	<b>-</b>
<b>Beginning Capital Reserve Balance</b>				1,235,182	1,335,182	771,917	622,021	674,209	676,634
<b>Proposed Contribution</b>				100,000	100,000	100,000	100,000	100,000	100,000
<b>Proposed Expenditure</b>				-	(663,265)	(249,896)	(47,812)	(97,575)	-
<b>Ending Estimated Capital Reserve Balance</b>				1,335,182	771,917	622,021	674,209	676,634	776,634

Summary of Capital Improvement Projects									
<b>Fire Dept Equipment CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Defibrillators	60,000	FY 2020-21	10			62,474			
CPR Machines	30,000	FY 2020-21	10			31,237			
Jaws of Life	30,000	FY 2020-21	10			31,237			
Turnout Gear	75,000	FY 2021-22	10				79,686		
SCBA Equipment	155,800	FY 2022-23	15					168,913	
Radio Equipment	42,046	FY 2028-29	10						
Rescue Boat	18,000	FY 2032-33	20						
SCBA Compressor	50,000	FY 2035-36	15						
<b>Total:</b>	<b>460,846</b>			<b>-</b>	<b>-</b>	<b>124,948</b>	<b>79,686</b>	<b>168,913</b>	<b>-</b>
<b>Beginning Capital Reserve Balance</b>				166,412	208,412	250,412	167,464	129,778	2,865
<b>Proposed Contribution</b>				42,000	42,000	42,000	42,000	42,000	42,000
<b>Proposed Expenditure</b>				-	-	(124,948)	(79,686)	(168,913)	-
<b>Ending Estimated Capital Reserve Balance</b>				208,412	250,412	167,464	129,778	2,865	44,865
<b>Parks &amp; Recreation Improvements CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Water well for irrigation	30,000	FY 2017-18		30,000					
Hanson Park storage building	50,000	FY 2019-20			51,000				
St. Cyr playground Equip. Phase 1	35,000	FY 2022-23						37,885	
St. Cyr playground Equip. Phase 2	35,000	FY 2023-24							38,643
<b>Total:</b>	<b>150,000</b>			<b>30,000</b>	<b>51,000</b>	<b>-</b>	<b>-</b>	<b>37,885</b>	<b>38,643</b>
<b>Beginning Capital Reserve Balance</b>				63,938	49,938	14,938	30,938	46,938	25,053
<b>Proposed Contribution</b>				16,000	16,000	16,000	16,000	16,000	16,000
<b>Proposed Expenditure</b>				(30,000)	(51,000)	-	-	(37,885)	(38,643)
<b>Ending Estimated Capital Reserve Balance</b>				49,938	14,938	30,938	46,938	25,053	2,410

Summary of Capital Improvement Projects									
<b>Library Emergency CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
<b>Total:</b>	<b>0</b>			-	-	-	-	-	-
<b>Beginning Capital Reserve Balance</b>				16,665	25,665	25,665	25,665	25,665	25,665
<b>Proposed Contribution</b>				9,000	-	-	-	-	-
<b>Proposed Expenditure</b>				-	-	-	-	-	-
<b>Ending Estimated Capital Reserve Balance</b>				25,665	25,665	25,665	25,665	25,665	25,665
<b>Library Emergency CRF-</b> Library Trustees are agents to expend									
<b>Library Maintenance CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Generator	32,000	FY 2022-23							35,331
Elevator replacement	82,000	FY 2030-31							
Replace furnace & control system	64,000	FY 2036-42							
Replace shingle & flat rubber roof	67,000	FY 2041-42							
<b>Total:</b>	<b>245,000</b>			-	-	-	-	-	<b>35,331</b>
<b>Beginning Capital Reserve Balance</b>				5,000	10,000	15,000	20,000	25,000	30,000
<b>Proposed Contribution</b>				5,000	5,000	5,000	5,000	5,000	5,000
<b>Proposed Expenditure</b>				-	-	-	-	-	(35,331)
<b>Ending Estimated Capital Reserve Balance</b>				10,000	15,000	20,000	25,000	30,000	(331)

Summary of Capital Improvement Projects									
<b>School District &amp; HVAC CRFs</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Elementary School Architect	300,000	FY 2019-20	25		300,000				
Elementary School Renovation	750,000	FY2020-21				750,000			
<b>Total:</b>	<b>1,050,000</b>			<b>-</b>	<b>300,000</b>	<b>750,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Bow School District CRF</u></b>									
Beginning Capital Reserve Balance				649,899	949,899	949,899	1,023,500	1,323,500	1,623,500
Proposed Contribution				300,000	300,000	300,000	300,000	300,000	300,000
Proposed Expenditure				-	(300,000)	(226,399)	-	-	-
Ending Estimated Capital Reserve Balance				949,899	949,899	1,023,500	1,323,500	1,623,500	1,923,500
<b><u>Bow School District HVAC CRF</u></b>									
Beginning Capital Reserve Balance				523,601	523,601	523,601	0	0	0
Proposed Contribution									
Proposed Expenditure				-	-	(523,601)	-	-	-
Ending Estimated Capital Reserve Balance				523,601	523,601	0	0	0	0

Summary of Capital Improvement Projects									
<b>BHS Cap Improve/Atheltic Fields/AREA CRF</b>	Current	Purchase		1	2	3	4	5	6
	Est. Cost	Year	Life	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
BHS Turf Field	1,500,000	FY 2035-36	20						
BHS Roof Replacemnt	800,800	FY 2027-28	30						
<b>Total:</b>	<b>2,300,800</b>			-	-	-	-	-	-
<b><u>BHS Capital Improvements CRF</u></b>									
Beginning Capital Reserve Balance				131,811	201,811	271,811	341,811	411,811	481,811
Proposed Contribution				70,000	70,000	70,000	70,000	70,000	70,000
Proposed Expenditure				-	-	-	-	-	-
Ending Estimated Capital Reserve Balance				201,811	271,811	341,811	411,811	481,811	551,811
<b><u>Athletic Fields &amp; Facilities CRF</u></b>									
Beginning Capital Reserve Balance				57,500	86,250	115,000	143,750	172,500	201,250
Proposed Contribution				28,750	28,750	28,750	28,750	28,750	28,750
Proposed Expenditure								-	
Ending Estimated Capital Reserve Balance				86,250	115,000	143,750	172,500	201,250	230,000
<b><u>AREA School - Dunbarton CIF CRF</u></b>									
Beginning Capital Reserve Balance				112,325	152,325	192,325	232,325	272,325	312,325
Proposed Contribution				40,000	40,000	40,000	40,000	40,000	40,000
Proposed Expenditure									
Ending Estimated Capital Reserve Balance				152,325	192,325	232,325	272,325	312,325	352,325

## Appendix A: Relevant State Statutes

### CHAPTER 674

#### LOCAL LAND USE PLANNING AND REGULATORY POWERS

##### Capital Improvements Program

**674:5 Authorization.** – In a municipality where the planning board has adopted a master plan, the local legislative body may authorize the planning board to prepare and amend a recommended program of municipal capital improvement projects projected over a period of at least 6 years. As an alternative, the legislative body may authorize the governing body of a municipality to appoint a capital improvement program committee, which shall include at least one member of the planning board and may include but not be limited to other members of the planning board, the budget committee, or the town or city governing body, to prepare and amend a recommended program of municipal capital improvement projects projected over a period of at least years. The capital improvements program may encompass major projects being currently undertaken or future projects to be undertaken with federal, state, county and other public funds. The sole purpose and effect of the capital improvements program shall be to aid the mayor or selectmen and the budget committee in their consideration of the annual budget.

**Source.** 1983, 447:1, eff. Jan. 1, 1984. 2002, 90:1, eff. July 2, 2002.

**674:6 Purpose and Description.** – The capital improvements program shall classify projects according to the urgency and need for realization and shall recommend a time sequence for their implementation. The program may also contain the estimated cost of each project and indicate probable operating and maintenance costs and probable revenues, if any, as well as existing sources of funds or the need for additional sources of funds for the implementation and operation of each project. The program shall be based on information submitted by the departments and agencies of the municipality and shall take into account public facility needs indicated by the prospective development shown in the master plan of the municipality or as permitted by other municipal land use controls.

**Source.** 1983, 447:1, eff. Jan. 1, 1984.

##### **674:7 Preparation.** –

I. In preparing the capital improvements program, the planning board or the capital improvement program committee shall confer, in a manner deemed appropriate by the board or the committee, with the mayor or the board of selectmen, or the chief fiscal officer, the budget committee, other municipal officials and agencies, the school board or boards, and shall review the recommendations of the master plan in relation to the proposed capital improvements program. II. Whenever the planning board or the capital improvement program committee is authorized and directed to prepare a capital improvements program, every municipal department, authority or agency, and every affected school district board, department or agency, shall, upon request of the planning board or the capital improvement program committee, transmit to the board or committee a statement of all capital projects it proposes to undertake during the term of the program. The planning board or the capital improvement program committee shall study each proposed capital project, and shall advise and make recommendations to the department, authority, agency, or school district board, department or agency, concerning the relation of its project to the capital improvements program being prepared.

**Source.** 1983, 447:1. 1995, 43:1, eff. July 2, 1995. 2002, 90:2, eff. July 2, 2002.

**674:8 Consideration by Mayor and Budget Committee.** – Whenever the planning board or the capital improvement program committee has prepared a capital improvements program under RSA 674:7, it shall submit its recommendations for the current year to the mayor or selectmen and the budget committee, if one exists, for consideration as part of the annual budget.

**Source.** 1983, 447:1, eff. Jan. 1, 1984. 2002, 90:3, eff. July 2, 2002.

# Appendix B: Capital Project Request Form

[Back to Index](#)
[Command Buttons](#)

## CAPITAL IMPROVEMENT PROJECT SHEET

PROJECT TITLE:
DEPARTMENT:
EXPENDITURE YEAR:
ESTIMATED LIFE:

Years

CRF Account:

Future Cost\*:

\* If Greater Than 20 Years

Estimated Inflation Rate:

GF

\$

-

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Date Added:
Last Edit:
PROJECT DESCRIPTION AND JUSTIFICATION:

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Appendix C:  
Project  
Submission  
Materials and  
Backup  
Information

Appendix C Index

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ANNUAL DEBT SERVICE ON OUTSTANDING TOWN AND SCHOOL BONDS						
as of June 30, 2017						
Fiscal Year	2007 Hammond	2008 Water/Sewer	2011 Water/Sewer	2016 Public Safety Bldg	2006 *Memorial School	Total
2018-19	\$70,337.50	\$161,012.50	\$857,250.00	\$370,785.76	\$215,700.00	\$1,675,085.76
2019-20	\$64,037.50	\$155,375.00	\$834,325.00	\$358,737.76	\$207,000.00	\$1,619,475.26
2020-21	\$57,731.25	\$150,356.25	\$814,675.00	\$346,689.76	\$198,200.00	\$1,567,652.26
2021-22	\$56,418.75	\$145,818.75	\$795,025.00	\$334,641.76	\$189,400.00	\$1,521,304.26
2022-23	\$55,106.25	\$141,212.50	\$772,100.00	\$322,593.76	\$180,500.00	\$1,471,512.51
2023-24		\$136,537.50	\$741,000.00	\$311,745.76	\$171,500.00	\$1,360,783.26
2024-25		\$131,862.50	\$715,000.00	\$302,097.76	\$162,500.00	\$1,311,460.26
2025-26		\$127,118.75	\$689,000.00	\$291,249.76	\$153,500.00	\$1,260,868.51
2026-27		\$122,306.25	\$663,000.00	\$274,327.26	\$144,500.00	\$1,204,133.51
2027-28		\$117,425.00		\$266,055.26		\$383,480.26
2028-29		\$112,475.00		\$261,308.26		\$373,783.26
2029-30		\$112,475.00		\$261,308.26		\$373,783.26
2030-31				\$239,723.50		
	\$303,631.25	\$1,613,975.00	\$6,881,375.00	\$3,941,264.62	\$1,622,800.00	<b>\$14,123,322.37</b>
*Note: School Bond Debt minus State Revenue						

RSA 33:4-b Debt Limit; Computation. The debt limitations hereinbefore prescribed, except for counties, shall be based upon the applicable last locally assessed valuation of the municipality as last equalized by the commissioner of revenue administration under RSA 21-J:3, XIII and shall include the equalized value of property formerly taxed pursuant to the provisions of RSA 72:7; 72:15, I, V, VII, VIII, IX, X and XI; 72:16; 72:17; 73:26; 73:27 and 73:11 through 16 inclusive, all as amended, which was relieved from taxation by 1970, 5:3, 5:8, and 57:12, as determined under the provisions of RSA 71:11 as amended. Whenever several municipalities possessing the power to incur indebtedness cover or extend over identical territory, each such municipality shall so exercise the power to incur indebtedness of such municipalities **shall not exceed 9.75 percent** of the valuation of the taxable property as hereinbefore determined, except as provided for cooperative school districts under RSA 195:6.

**Statement of Appropriations, Estimated Revenues  
And Property Tax Assessed for 2016**

**ASSESSING DEPARTMENT**

For the 2016 tax year, Bow had a total of 3,419 parcels, of which 3,258 were taxable and 161 were tax exempt. The Assessing Department is continuing with the Cycled Inspection process, whereby one-fifth of the town is measured and inspected each year on a rotating basis. The streets and neighborhoods we will be visiting is currently posted on the Town's website. Property owners in the selected area receive notification from the Assessing Department informing them that a data collector will be in their neighborhood at which time the data collector will measure the outside and ask an adult for permission to inspect the interior of the home. In addition, all properties that have had a building permit issued over the last year or that have sold in the last year will also be visited by the Assessing Department to verify the details of the building permit and or the sale.

The annual tax rate applies to your property's assessed value and determines the amount of tax you will pay. The municipal, the local school district, the county, and the state education taxing agencies all contribute to the total tax rate. The following chart compares the tax rates of each agency per \$1,000 of assessed value for the last five years:

YEAR	2016	2015	2014	2013	2012
Town of Bow	\$ 6.27	\$ 6.71	\$ 7.04	\$ 7.05	\$ 6.76
Bow School District	\$14.97	\$16.48	\$17.18	\$17.61	\$16.38
State Education	\$ 2.22	\$ 2.38	\$ 2.42	\$ 2.57	\$ 2.61
County	\$ 2.83	\$ 2.97	\$ 2.87	\$ 2.96	\$ 3.32
<b>TOTAL RATE</b>	<b>\$ 26.29</b>	<b>\$ 28.54</b>	<b>\$ 29.51</b>	<b>\$ 30.19</b>	<b>\$ 29.07</b>

Bow offers various property tax exemptions and credits to eligible residents, including veterans, elderly, blind, and disabled, as well as for solar and central wood heating systems. All financial information is kept confidential and returned after review. The deadline for all these applications is April 15th.

Bow offers the maximum amount allowed by the State of New Hampshire for all Veteran's Tax Credits.

The Veteran's Tax Credits' allocations were as follows for 2016:

Standard Veteran's Tax Credit of \$500 (309)	\$ 154,250*
Permanently Disabled Veteran's Credit of \$2,000 (8)	\$ 16,000
Surviving Spouse of Service member Killed of \$2,000 (3)	\$ 6,000
<b>Total Amount of Veterans Credits</b>	<b>\$ 176,250</b>

\*Some recipients receive partial credits.

The following is the official summary of inventory in Bow of all real estate which was used to calculate the 2016 tax rate:

Residential Land	\$ 245,795,654
Commercial/Industrial Land	\$ 52,585,550
Discretionary Preservation Easement Land	\$ 2,700
Current Use Land	\$ 330,771
<b>Total of Taxable Land</b>	<b>\$298,714,675</b>
Residential Buildings	\$ 574,292,080
Commercial/Industrial Buildings	\$ 118,454,600
Discretionary Preservation Easement Buildings	\$ 105,600
<b>Total of Taxable Buildings</b>	<b>\$ 692,852,280</b>
Public Utilities	\$ 207,180,900
Other Utilities (private water companies)	\$ 78,300
<b>Total of Utilities</b>	<b>\$ 207,259,200</b>
<b>Total Valuation (Before exemptions)</b>	<b>\$ 1,198,826,155</b>
Less Air Pollution Control Exemption to PSNH	-\$ 25,400,100
Less Improvements to Assessing the Disabled (2)	-\$ 84,549
<b>Modified Assessed Valuation</b>	<b>\$ 1,173,341,506</b>
(This is used to calculate the total equalized value)	

Total Exemptions in Bow for 2016:

Blind Exemption (3)	\$ 225,000
Elderly Exemption (38)	\$ 5,829,200
Disabled Exemption (7)	\$ 1,001,000
Wood-Heating Exemption (8)	\$ 18,800
Solar Energy Exemption (8)	\$ 215,200
<b>Total Amount of Exemptions</b>	<b>\$ 7,289,200</b>

\*Some recipients receive partial credits.

In 2015, our equalization ratio (the equalization ratio measures the level of assessment and equity for each municipality), as determined by the Department of Revenue Administration was at 93.4%. Based on the 2014 final ratio of 97.1%, the real estate market in Bow was increasing at a rate of .33% per month. By August 2016 the estimated ratio of assessments to sale prices was down to 88%. This means that the market continued to increase at a rate of .45% per month in 2016. The Department of Revenue Administration requires that towns fall between 90% and 110% of full market value. For this reason, the Assessing Department conducted a full town-wide update in the summer of 2016.

All property owners were notified of their new values by mail during the third week of August. The Assessing Department offered informal hearings to discuss new valuations with property owners at the end of August and the first week of September.

The new ratio for the Town will be given in the spring 2017. Based on our analysis after the town-wide update the equalization rate for 2016 will be approximately 99.3%. The ratio of 99.3% means our assessments are now only less than 1% below market value.

The average sale price for a single-family home in Bow in 2016 was \$307,933 (an 3.8% increase from 2015) and the average sale price for a residential condominium was \$315,000 (8.8% increase from 2015).

The commercial and industrial real estate market has seen some mild increases in the real estate market from 2015 to 2016.

If you wish to file an abatement application form, because you feel your assessment is not in line with the equalized market value, or if there is a data error on your property record, the deadline is March 1st. Applications are available at [www.bownh.gov](http://www.bownh.gov).

For property information, please visit [www.visionappraisal.com](http://www.visionappraisal.com) along with our online maps at [www.caigisonline.com/BowNH](http://www.caigisonline.com/BowNH).

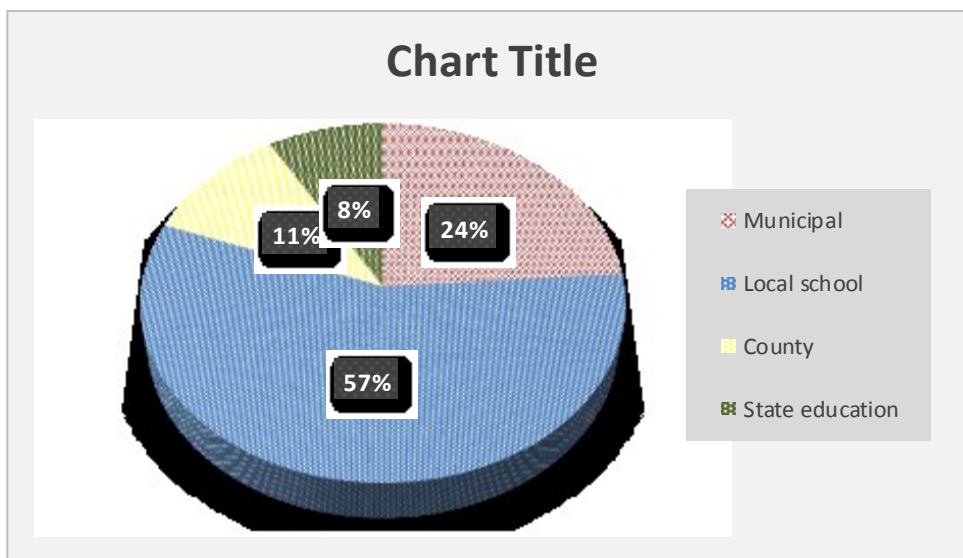
If you have a question, or you need to obtain the most current, official property information, please contact the Assessing office. You may call 228-1187, Ext. 115, or email the assessor at [mhurley@bownh.gov](mailto:mhurley@bownh.gov).

<b><u>Tax Rate Computation</u></b>	<b><u>Assessment</u></b>	<b><u>Assessed Valuation**</u></b>	<b><u>Tax Rate*</u></b>
Municipal	7,306,749	1,166,052,306	\$6.27
Local school	17,461,017	1,166,052,306	\$14.97
County	3,296,898	1,166,052,306	\$2.83
State education	<u>2,187,298</u>	984,271,506	<u>\$2.22</u>
Total	30,251,962		\$26.29

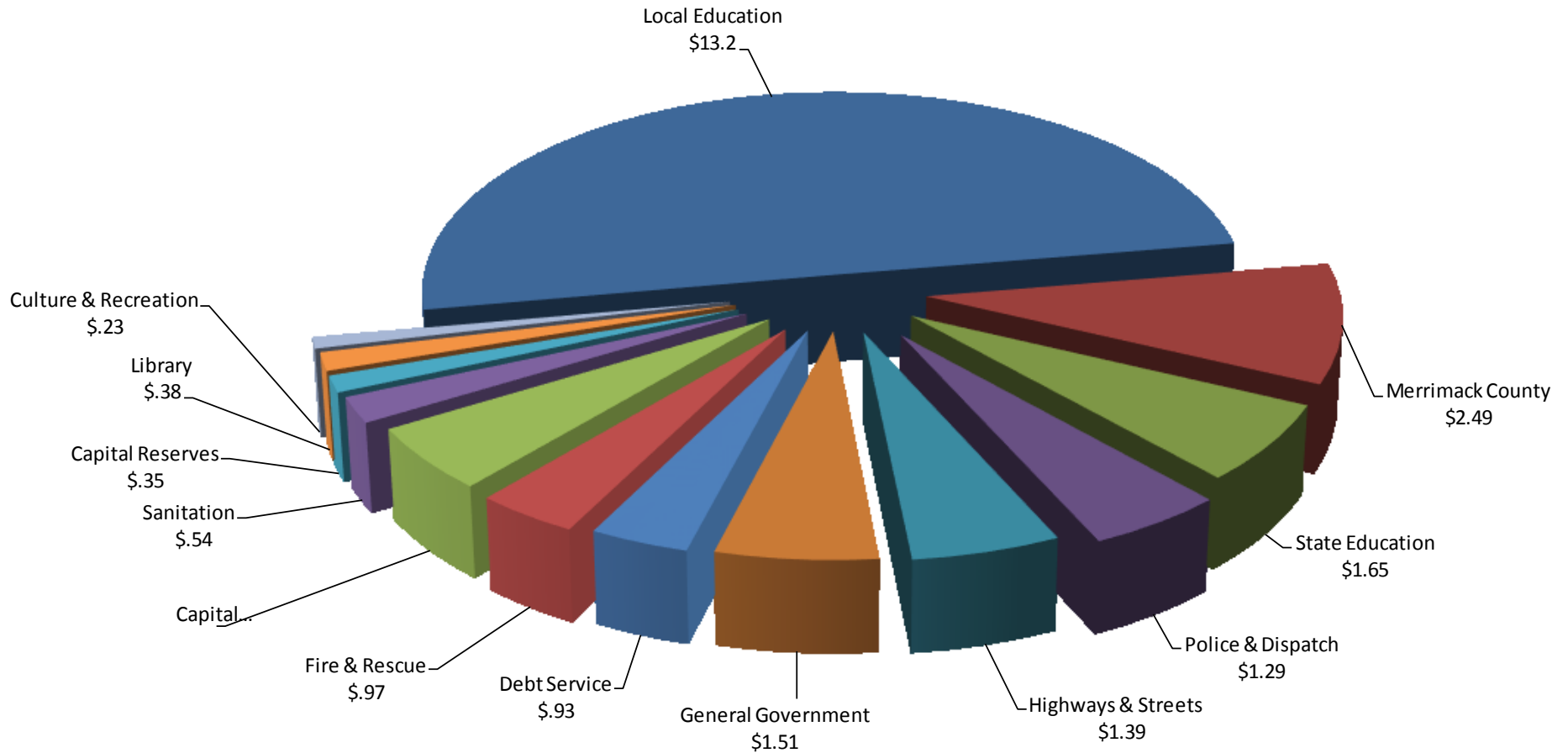
\* Tax rate = assessment divided by property valuation

\*\* Assessed Valuation = total taxable assessments less exemptions.

The State Education portion does not include utility values.



### HOW EACH TAX DOLLAR WAS SPENT IN 2016



## 2013 Comparison of Full Value Tax Rates (Bow 2016)

Complete Report Can be Found at:

<https://www.revenue.nh.gov/mun-prop/property/equalization-2016/index.htm>

## 2016 COMPARISON OF FULL VALUE TAX RATES

The full value tax rate represents the estimated tax rate for a municipality if all the taxable property was assessed at 100% and includes the equalized value of properties for which a payment in lieu of property taxes is made.

The full value tax rate is calculated as follows: The 2016 gross local property taxes to be raised as reported by the Department of Revenue Administration, Municipal & Property Division divided by the total equalized valuation including utility values and equalized railroad taxes.

The full value rates are ranked in ascending order from lowest to highest (1-230 for 2016). If two municipalities have the same full value tax rate they are ranked with the same number. The unincorporated towns (signified by \*\*\*\*) have no 2016 tax rate, and thus are not ranked.

The full value tax rate can only be used to make a limited comparison of what a property in one municipality would pay for taxes to a property of equal value in another municipality.

For example:	Town A	$\frac{100,000 \times 21.95}{1000} =$	\$2,195.00
	Town B	$\frac{100,000 \times 26.56}{1000} =$	\$2,656.00

Due to diverse real estate values in New Hampshire, properties of equal value do not equate to properties of equal size or quality.

Prior to making any assumptions or decisions regarding a property owner's tax burden in a municipality, other factors should be considered such as real estate values, municipal services, schools, community make-up, and locational factors including proximity to urban areas, medical facilities, highways, recreation areas, etc.



2016 COMPARISON OF FULL VALUE TAX RATES RANKING  
(AVERAGE LEVEL OF ASSESSMENTS (RATIO) SHOWN IN COLM. 4)  
PREPARED BY NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

MUNICIPALITY	2016 VALUATION		COMPARATIVE TAX RATES AND RANKINGS			
	MODIFIED LOCAL ASSESSED VALUATION	TOTAL EQUALIZED VALUATION INCLUDING UTILITIES AND RAILROAD	2016 LOCAL TAX RATE	2016 EQ RATIO	FULL VALUE TAX RATE	RANKING *
ATKINSON & GILMANTON	695,404	806,912	\$0.00	84.5	\$0.00	****
BEAN'S GRANT	509	566	\$0.00	84.5	\$0.00	****
BEAN'S PURCHASE	0	0	\$0.00	84.5	\$0.00	****
CAMBRIDGE	8,721,492	10,267,516	\$0.00	84.5	\$0.00	****
CHANDLER'S PURCHASE	40,376	47,634	\$0.00	84.5	\$0.00	****
CRAWFORD'S PURCHASE	187,758	222,173	\$0.00	84.5	\$0.00	****
CUTT'S GRANT	0	0	\$0.00	84.5	\$0.00	****
DIX GRANT	773,929	900,306	\$0.00	84.5	\$0.00	****
ERVING'S GRANT	36,902	78,636	\$0.00	84.5	\$0.00	****
HADLEY'S PURCHASE	0	0	\$0.00	84.5	\$0.00	****
KILKENNY	747	831	\$0.00	84.5	\$0.00	****
LIVERMORE	134,100	134,100	\$0.00	100.0	\$0.00	****
LOW & BURBANK GRANT	0	0	\$0.00	84.5	\$0.00	****
MARTIN'S LOCATION	38,434	42,752	\$0.00	84.5	\$0.00	****
SARGENT'S PURCHASE	1,961,360	2,321,136	\$0.00	84.5	\$0.00	****
SECOND COLLEGE GRANT	1,182,566	1,362,601	\$0.00	84.5	\$0.00	****
MILLSFIELD	8,137,153	94,178,402	\$6.60	84.5	\$0.57	1
DIXVILLE	8,320,143	32,561,341	\$7.94	84.5	\$2.02	2
PINKHAM'S GRANT	2,755,360	6,760,166	\$7.08	84.5	\$2.77	3
THOM & MES PURCHASE	5,216,473	6,487,976	\$3.95	84.5	\$3.18	4
HART'S LOCATION	16,133,579	16,397,629	\$3.65	100.0	\$3.53	5
HALE'S LOCATION	74,454,500	74,284,185	\$4.25	100.3	\$4.25	6
SUCCESS	11,743,693	14,643,392	\$5.41	84.5	\$4.33	7
WENTWORTH LOCATION	7,232,938	8,547,148	\$6.17	84.5	\$5.19	8
NEW CASTLE	723,880,705	740,008,008	\$5.85	97.7	\$5.71	9
GREEN'S GRANT	3,129,477	3,757,030	\$7.45	84.5	\$6.16	10
GROTON	79,159,602	140,279,081	\$11.70	99.4	\$6.29	11
ODELL	2,035,320	2,931,736	\$9.85	84.5	\$6.84	12
NEWINGTON	1,017,291,528	1,107,362,510	\$9.15	89.8	\$7.37	13
HEBRON	258,297,700	264,163,915	\$8.32	98.8	\$8.09	14
MOULTONBOROUGH	2,844,591,697	2,968,525,437	\$8.74	95.3	\$8.35	15
BARTLETT	935,932,584	1,031,573,218	\$9.50	90.8	\$8.60	16
BRIDGEWATER	344,129,700	354,373,864	\$9.43	97.4	\$9.10	17
RYE	1,890,465,900	2,179,578,301	\$10.68	86.8	\$9.23	18
TUFTONBORO	973,819,522	1,011,343,921	\$10.43	95.6	\$10.00	19
JACKSON	396,251,282	419,562,607	\$11.26	94.6	\$10.62	20
EASTON	63,087,871	67,745,707	\$11.85	93.5	\$11.00	21
EATON	109,837,993	105,083,796	\$10.86	104.5	\$11.33	22
ERROL	86,883,356	88,539,769	\$11.96	91.5	\$11.41	23
WAKEFIELD	910,277,423	1,000,775,256	\$12.94	91.0	\$11.73	24
WINDSOR	27,571,407	28,642,893	\$12.46	100.9	\$11.94	25
ALBANY	111,782,153	113,372,311	\$12.50	99.6	\$12.25	26
FREEDOM	483,254,456	495,962,022	\$12.60	97.4	\$12.25	26
HOLDERNESS	688,311,271	749,189,147	\$14.18	91.7	\$12.98	27
LINCOLN	836,406,864	839,192,665	\$13.19	97.5	\$13.05	28
CENTER HARBOR	386,746,034	422,393,988	\$14.38	91.6	\$13.15	29
WATERVILLE VALLEY	335,895,878	354,299,656	\$14.00	95.2	\$13.26	30
ALTON	1,577,858,917	1,657,510,932	\$14.15	95.2	\$13.44	31
CLARKSVILLE	40,986,926	49,780,625	\$16.96	87.4	\$13.88	32
PITTSBURG	252,238,831	282,815,995	\$15.70	90.3	\$13.91	33
WOLFEBORO	1,970,682,356	2,056,827,170	\$14.63	95.9	\$13.99	34
MEREDITH	1,773,868,002	1,968,530,387	\$15.59	90.5	\$14.02	35

\*RANKING BASED ON LOWEST TO HIGHEST FULL VALUE TAX RATE.

**2016 COMPARISON OF FULL VALUE TAX RATES RANKING**  
**(AVERAGE LEVEL OF ASSESSMENTS (RATIO) SHOWN IN COLM. 4)**  
**PREPARED BY NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION**

MUNICIPALITY	2016 VALUATION		COMPARATIVE TAX RATES AND RANKINGS			
	MODIFIED LOCAL ASSESSED VALUATION	TOTAL EQUALIZED VALUATION INCLUDING UTILITIES AND RAILROAD	2016 LOCAL TAX RATE	2016 EQ RATIO	FULL VALUE TAX RATE	RANKING *
SANDWICH	399,806,637	407,562,797	\$14.46	97.5	\$14.12	36
PORTSMOUTH	4,791,313,051	5,713,043,888	\$17.04	84.9	\$14.15	37
SUNAPEE	1,205,901,984	1,272,664,429	\$15.03	94.6	\$14.22	38
MONROE	411,866,295	262,928,560	\$11.34	94.1	\$14.64	39
GREENLAND	705,105,116	792,696,949	\$16.65	88.5	\$14.71	40
CHATHAM	48,265,140	52,115,009	\$16.03	93.9	\$14.81	41
NEW LONDON	1,126,372,770	1,186,587,556	\$15.67	94.8	\$14.84	42
NORTH HAMPTON	1,030,306,750	1,205,314,710	\$17.79	85.4	\$15.01	43
MADISON	470,890,133	509,589,001	\$16.56	91.3	\$15.23	44
STODDARD	256,898,740	250,182,834	\$14.99	101.9	\$15.30	45
SEABROOK	2,723,646,150	2,428,191,407	\$14.79	96.0	\$15.34	46
BENTON	25,080,079	28,960,407	\$17.84	88.1	\$15.36	47
RANDOLPH	70,874,787	67,562,650	\$14.93	102.6	\$15.48	48
HAMPTON	3,335,308,100	3,374,610,103	\$16.08	98.6	\$15.67	49
DUMMER	75,409,010	65,464,947	\$15.17	110.1	\$15.83	50
NEWBURY	724,669,038	732,379,184	\$16.05	99.1	\$15.86	51
HANOVER	2,004,552,200	2,475,094,793	\$19.72	81.0	\$15.95	52
SOUTH HAMPTON	136,068,744	150,664,785	\$18.23	89.6	\$16.07	53
CROYDON	88,744,821	84,358,402	\$15.86	103.8	\$16.58	54
GILFORD	1,662,334,122	1,774,276,810	\$17.95	93.8	\$16.78	55
FRANCONIA	284,280,597	286,981,348	\$17.06	98.4	\$16.84	56
ATKINSON	947,632,914	983,888,121	\$17.88	96.3	\$17.07	57
CARROLL	322,834,920	356,203,017	\$18.98	91.0	\$17.15	58
SHELBURNE	79,276,650	68,109,442	\$15.58	101.4	\$17.20	59
HARRISVILLE	189,658,379	192,318,374	\$17.60	98.4	\$17.32	60
CONWAY	1,433,426,343	1,575,470,562	\$19.31	90.1	\$17.44	61
SURRY	78,419,001	81,439,868	\$18.18	101.2	\$17.44	61
STARK	70,732,534	67,657,559	\$17.42	97.2	\$17.54	62
AUBURN	659,600,259	745,214,701	\$20.25	90.8	\$17.75	63
COLUMBIA	85,633,380	81,532,572	\$17.81	91.0	\$17.89	64
OSSIPEE	642,113,539	680,289,380	\$19.30	94.2	\$18.08	65
CANDIA	394,646,286	473,980,172	\$22.11	83.1	\$18.15	66
ELLSWORTH	13,449,932	14,646,109	\$19.84	92.9	\$18.16	67
WOODSTOCK	225,018,862	242,963,710	\$19.89	92.8	\$18.29	68
BROOKFIELD	95,012,335	97,719,780	\$18.96	97.0	\$18.37	69
BEDFORD	3,294,309,561	3,887,593,206	\$22.37	84.6	\$18.77	70
LYMAN	58,982,060	59,794,832	\$19.23	98.5	\$18.87	71
SALEM	4,412,559,540	4,745,723,979	\$20.43	92.3	\$18.87	71
THORNTON	366,415,877	371,019,540	\$19.39	98.2	\$19.06	72
STRATHAM	1,256,137,007	1,323,778,265	\$20.40	94.8	\$19.25	73
HAMPTON FALLS	420,011,775	463,545,913	\$21.50	90.7	\$19.29	74
HUDSON	2,676,063,055	2,973,134,944	\$21.97	87.3	\$19.41	75
NEW HAMPTON	316,923,665	288,481,676	\$17.99	104.3	\$19.44	76
STRAFFORD	473,069,300	508,258,488	\$21.25	93.0	\$19.73	77
TILTON	508,872,880	525,449,531	\$20.72	95.4	\$19.82	78
LOUDON	547,279,088	571,846,284	\$20.98	95.4	\$19.88	79
WINDHAM	2,291,885,340	2,499,003,308	\$21.82	91.7	\$19.89	80
NOTTINGHAM	613,368,641	625,997,374	\$20.65	97.1	\$19.94	81
LANDAFF	50,784,824	49,708,196	\$19.73	100.6	\$20.07	82
SANBORNTON	393,864,436	460,719,767	\$23.63	85.6	\$20.14	83
BRISTOL	469,206,603	472,264,751	\$20.62	97.0	\$20.34	84
LACONIA	1,932,198,550	2,086,317,897	\$22.20	93.3	\$20.34	84

\*RANKING BASED ON LOWEST TO HIGHEST FULL VALUE TAX RATE.



**2016 COMPARISON OF FULL VALUE TAX RATES RANKING**  
**(AVERAGE LEVEL OF ASSESSMENTS (RATIO) SHOWN IN COLM. 4)**  
**PREPARED BY NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION**

MUNICIPALITY	2016 VALUATION		COMPARATIVE TAX RATES AND RANKINGS			
	MODIFIED LOCAL ASSESSED VALUATION	TOTAL EQUALIZED VALUATION INCLUDING UTILITIES AND RAILROAD	2016 LOCAL TAX RATE	2016 EQ RATIO	FULL VALUE TAX RATE	RANKING *
WASHINGTON	228,769,885	217,017,776	\$19.35	105.0	\$20.34	84
CHESTERFIELD	494,595,419	513,663,084	\$21.26	96.6	\$20.40	85
NELSON	122,176,221	117,135,085	\$19.69	103.3	\$20.42	86
LONDONDERRY	3,785,041,790	3,879,315,817	\$21.50	94.4	\$20.46	87
KENSINGTON	306,265,316	344,479,831	\$23.51	88.2	\$20.57	88
PELHAM	1,676,395,742	1,690,014,097	\$20.95	98.6	\$20.68	89
NEW DURHAM	407,328,708	444,546,919	\$22.76	91.6	\$20.77	90
JEFFERSON	122,796,008	119,225,391	\$20.39	101.4	\$20.79	91
GOSHEN	72,028,938	73,815,208	\$21.40	97.5	\$20.82	92
SHARON	50,563,398	50,569,181	\$20.92	99.5	\$20.85	93
LITCHFIELD	886,206,984	906,597,009	\$21.60	95.9	\$20.91	94
NASHUA	8,249,067,536	9,622,829,137	\$25.07	85.0	\$21.06	95
BATH	121,057,765	114,576,255	\$20.43	98.7	\$21.22	96
PLAISTOW	992,241,173	1,036,307,070	\$22.50	95.2	\$21.24	97
CORNISH	176,269,458	175,681,268	\$21.40	99.6	\$21.31	98
HOLLIS	1,212,504,780	1,321,056,568	\$23.43	91.0	\$21.32	99
ALEXANDRIA	200,583,640	193,877,823	\$21.00	97.9	\$21.36	100
DALTON	76,286,463	86,406,570	\$24.49	92.3	\$21.46	101
DORCHESTER	38,810,028	39,555,891	\$21.96	97.8	\$21.49	102
HAMPSTEAD	1,031,576,646	1,149,504,908	\$24.20	89.2	\$21.49	102
SPRINGFIELD	203,085,199	209,068,637	\$22.29	97.7	\$21.51	103
HOOKSETT	1,621,272,530	1,951,731,299	\$26.39	82.5	\$21.52	104
SUGAR HILL	145,636,599	143,310,453	\$21.25	101.2	\$21.54	105
NEWMARKET	739,174,428	862,437,884	\$25.45	85.8	\$21.58	106
MANCHESTER	9,077,786,989	9,551,682,509	\$23.14	95.1	\$21.60	107
DEERFIELD	563,632,768	562,963,312	\$22.20	94.4	\$21.83	108
NEWFIELDS	248,590,348	261,062,999	\$23.22	95.2	\$21.84	109
MILAN	126,534,573	116,631,751	\$20.65	98.0	\$21.86	110
KINGSTON	662,284,825	758,151,346	\$25.50	85.9	\$22.01	111
EPPING	706,425,774	822,367,707	\$25.94	85.2	\$22.06	112
DUNBARTON	302,935,262	325,127,303	\$23.98	89.0	\$22.16	113
MARLOW	64,525,151	63,611,058	\$21.97	101.6	\$22.19	114
WENTWORTH	93,575,525	93,915,405	\$22.58	95.0	\$22.27	115
NORTHWOOD	468,026,783	495,172,199	\$23.98	94.3	\$22.33	116
CAMPTON	381,468,513	403,528,341	\$23.89	94.9	\$22.37	117
ANDOVER	253,673,666	238,916,535	\$21.26	103.4	\$22.39	118
CHESTER	553,595,100	570,784,548	\$23.91	93.2	\$22.43	119
TAMWORTH	341,949,702	345,353,103	\$22.94	100.7	\$22.53	120
WILMOT	177,237,784	190,559,016	\$24.29	92.1	\$22.53	120
WEARE	856,555,809	841,351,452	\$22.37	100.4	\$22.54	121
MERRIMACK	3,337,276,837	3,322,915,667	\$22.79	99.1	\$22.58	122
PLYMOUTH	433,056,266	477,517,394	\$25.17	87.4	\$22.62	123
DANBURY	107,013,937	107,218,580	\$23.00	99.8	\$22.84	124
GREENVILLE	97,595,138	102,862,626	\$24.28	95.0	\$22.85	125
GRANTHAM	466,452,232	484,841,012	\$23.84	95.8	\$22.87	126
SALISBURY	128,956,412	136,036,493	\$24.56	92.6	\$22.90	127
ROXBURY	23,120,286	25,289,746	\$25.32	103.2	\$23.03	128
EXETER	1,729,679,814	1,924,940,913	\$26.24	89.8	\$23.07	129
NORTHFIELD	283,582,944	311,369,349	\$25.98	89.1	\$23.08	130
RAYMOND	933,842,961	947,178,823	\$23.74	97.0	\$23.08	130
NEW BOSTON	633,818,967	632,729,377	\$23.35	99.1	\$23.19	131
ROLLINSFORD	230,041,771	274,016,276	\$27.98	83.6	\$23.22	132

\*RANKING BASED ON LOWEST TO HIGHEST FULL VALUE TAX RATE.

2016 COMPARISON OF FULL VALUE TAX RATES RANKING  
(AVERAGE LEVEL OF ASSESSMENTS (RATIO) SHOWN IN COLM. 4)  
PREPARED BY NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

MUNICIPALITY	2016 VALUATION		COMPARATIVE TAX RATES AND RANKINGS			
	MODIFIED LOCAL ASSESSED VALUATION	TOTAL EQUALIZED VALUATION INCLUDING UTILITIES AND RAILROAD	2016 LOCAL TAX RATE	2016 EQ RATIO	FULL VALUE TAX RATE	RANKING *
EAST KINGSTON	311,190,593	329,369,789	\$24.79	90.7	\$23.23	133
FRANKLIN	542,177,660	579,734,391	\$25.23	93.6	\$23.24	134
ASHLAND	237,394,875	247,297,685	\$24.37	96.6	\$23.30	135
WEBSTER	209,318,885	203,826,014	\$22.97	95.7	\$23.31	136
SANDOWN	529,025,880	643,078,809	\$29.16	82.2	\$23.53	137
BRENTWOOD	565,425,663	577,871,124	\$24.25	95.7	\$23.58	138
DOVER	2,991,001,960	3,256,575,668	\$26.29	91.7	\$23.59	139
GILMANTON	453,782,020	456,748,268	\$23.91	98.3	\$23.62	140
LYME	347,588,500	369,240,639	\$25.46	93.1	\$23.65	141
HANCOCK	247,659,753	239,392,496	\$23.11	102.9	\$23.80	142
WESTMORELAND	163,508,982	169,818,117	\$24.83	96.2	\$23.87	143
MASON	153,704,480	160,983,590	\$25.21	95.4	\$23.96	144
BETHLEHEM	230,545,605	261,188,486	\$27.46	88.4	\$24.03	145
RUMNEY	177,539,606	173,081,980	\$23.76	95.6	\$24.10	146
AMHERST	1,703,627,205	1,757,997,930	\$25.10	96.2	\$24.12	147
ROCHESTER	2,111,147,346	2,380,977,980	\$28.26	88.3	\$24.18	148
SUTTON	254,964,122	282,603,745	\$26.98	90.0	\$24.26	149
PIERMONT	96,449,808	94,688,509	\$23.95	101.1	\$24.28	150
FARMINGTON	450,346,546	455,468,793	\$25.03	97.6	\$24.34	151
WALPOLE	423,602,008	421,005,586	\$24.31	103.1	\$24.35	152
EPSOM	425,254,200	433,589,938	\$25.03	97.4	\$24.44	153
TEMPLE	140,120,067	143,100,246	\$25.02	97.4	\$24.44	153
ORANGE	31,659,106	31,858,375	\$24.75	98.7	\$24.51	154
BARRINGTON	923,669,758	968,377,783	\$26.04	95.5	\$24.53	155
ACWORTH	97,461,518	103,783,348	\$26.33	93.7	\$24.61	156
BOW	1,173,341,506	1,225,599,333	\$26.29	99.0	\$24.68	157
NEWTON	506,323,398	533,081,659	\$26.16	94.8	\$24.70	158
CANTERBURY	260,193,775	260,039,944	\$24.95	100.2	\$24.75	159
ENFIELD	543,592,734	566,775,229	\$26.54	96.0	\$24.77	160
GOFFSTOWN	1,459,249,100	1,535,064,461	\$26.43	93.7	\$24.81	161
NEW IPSWICH	384,950,936	403,121,233	\$26.23	93.6	\$24.86	162
GREENFIELD	138,393,706	156,545,562	\$28.23	93.1	\$24.87	163
EFFINGHAM	170,325,004	155,247,378	\$22.80	107.8	\$24.91	164
BRADFORD	197,953,935	208,275,570	\$26.40	93.8	\$24.99	165
BARNSTEAD	442,932,468	479,880,284	\$27.25	92.1	\$25.03	166
DERRY	2,833,341,580	2,989,613,482	\$27.06	94.8	\$25.06	167
GRAFTON	115,897,035	119,121,072	\$26.14	95.9	\$25.30	168
CONCORD	4,002,967,914	4,061,020,935	\$27.67	98.6	\$25.34	169
STEWARTSTOWN	90,937,586	84,035,430	\$23.88	101.8	\$25.34	169
WILTON	368,429,816	379,392,871	\$26.34	97.0	\$25.52	170
LEBANON	1,880,676,558	2,049,212,795	\$28.13	93.8	\$25.59	171
MILTON	360,408,165	395,689,904	\$28.40	92.5	\$25.59	171
WHITEFIELD	200,951,406	190,368,264	\$24.77	100.4	\$25.81	172
ORFORD	135,286,101	142,852,681	\$27.36	94.7	\$25.86	173
DEERING	179,770,752	193,965,450	\$28.55	90.8	\$25.89	174
DANVILLE	392,689,734	399,346,512	\$26.65	97.9	\$25.90	175
CHICHESTER	261,680,499	272,756,526	\$27.31	95.9	\$26.01	176
PEMBROKE	615,755,177	666,826,427	\$29.00	90.0	\$26.07	177
RINDGE	533,102,260	552,882,802	\$27.91	96.3	\$26.26	178
BOSCAWEN	236,407,763	256,230,157	\$28.61	92.6	\$26.27	179
LYNDEBOROUGH	166,012,320	174,066,117	\$27.74	95.3	\$26.38	180
BELMONT	601,249,886	649,265,560	\$28.83	92.7	\$26.42	181

\*RANKING BASED ON LOWEST TO HIGHEST FULL VALUE TAX RATE.

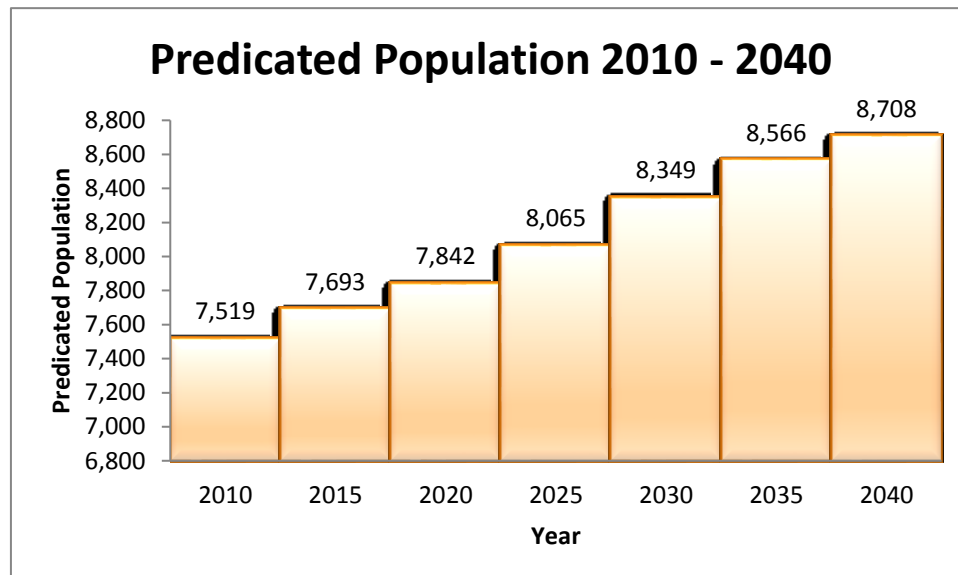
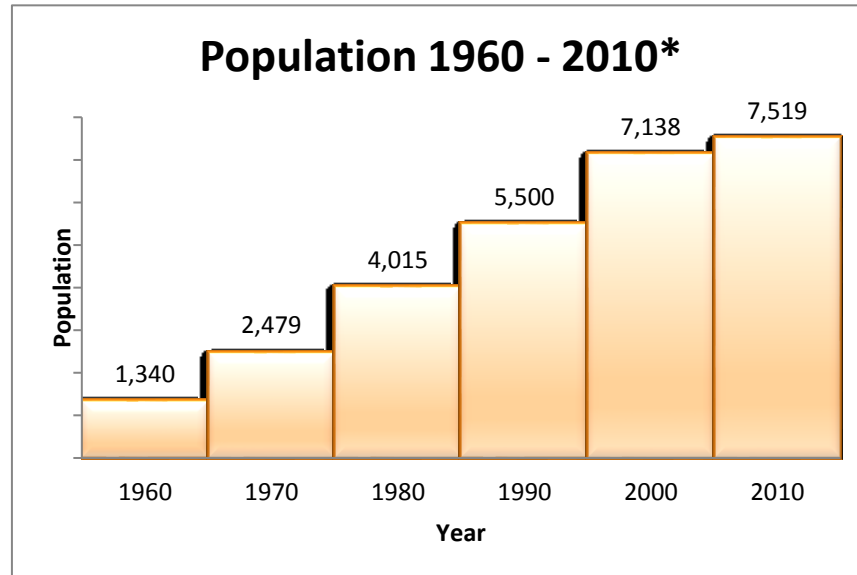


**2016 COMPARISON OF FULL VALUE TAX RATES RANKING**  
**(AVERAGE LEVEL OF ASSESSMENTS (RATIO) SHOWN IN COLM. 4)**  
**PREPARED BY NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION**

MUNICIPALITY	2016 VALUATION		COMPARATIVE TAX RATES AND RANKINGS			
	MODIFIED LOCAL ASSESSED VALUATION	TOTAL EQUALIZED VALUATION INCLUDING UTILITIES AND RAILROAD	2016 LOCAL TAX RATE	2016 EQ RATIO	FULL VALUE TAX RATE	RANKING *
FREMONT	400,985,833	450,591,553	\$29.88	87.8	\$26.46	182
ALSTEAD	161,870,233	164,022,467	\$26.91	98.8	\$26.47	183
LEMPSTER	148,500,562	133,559,802	\$24.66	104.2	\$26.57	184
GILSUM	61,027,121	61,386,369	\$26.95	97.8	\$26.59	185
FRANCESTOWN	191,875,340	182,300,239	\$25.51	104.4	\$26.77	186
HILL	89,851,251	83,694,816	\$25.30	102.8	\$26.91	187
PLAINFIELD	272,210,197	280,041,688	\$28.35	96.9	\$26.93	188
LANCASTER	270,675,289	255,323,815	\$25.61	103.3	\$26.94	189
LEE	446,745,073	473,960,648	\$29.25	94.3	\$26.99	190
MILFORD	1,339,034,961	1,417,686,825	\$28.96	94.5	\$27.12	191
RICHMOND	94,677,975	97,862,840	\$28.19	95.8	\$27.16	192
LITTLETON	725,425,210	657,930,799	\$25.91	89.3	\$27.50	193
SWANZEY	550,986,376	568,642,409	\$28.87	95.0	\$27.50	193
ANTRIM	227,463,075	228,588,210	\$27.97	97.5	\$27.59	194
MADBURY	234,152,390	239,636,957	\$28.59	95.0	\$27.60	195
DURHAM	1,016,683,899	1,080,145,993	\$29.73	92.9	\$27.68	196
HINSDALE	355,317,063	333,966,481	\$26.93	103.6	\$27.78	197
FITZWILLIAM	254,000,732	248,213,859	\$27.74	100.7	\$27.79	198
MONT VERNON	254,178,845	267,526,949	\$29.45	95.0	\$27.85	199
PETERBOROUGH	640,759,136	682,515,027	\$30.84	94.0	\$28.06	200
STRATFORD	75,726,953	59,963,125	\$23.51	101.2	\$28.11	201
BROOKLINE	517,780,849	589,650,075	\$32.56	87.2	\$28.36	202
WARNER	284,110,405	270,498,815	\$27.34	104.0	\$28.52	203
LISBON	107,331,430	106,892,993	\$28.68	100.0	\$28.59	204
BENNINGTON	104,046,397	113,412,619	\$31.78	89.9	\$28.91	205
LANGDON	56,932,381	57,698,688	\$29.73	99.4	\$29.10	206
NEWPORT	433,334,285	420,730,225	\$28.73	101.7	\$29.23	207
WARREN	83,899,662	66,080,862	\$23.57	109.9	\$29.33	208
MARLBOROUGH	173,723,655	176,109,358	\$30.18	98.9	\$29.69	209
ALLENSTOWN	251,423,283	278,859,939	\$33.86	89.1	\$30.23	210
SOMERSWORTH	843,367,828	890,309,355	\$32.12	95.0	\$30.25	211
HILLSBOROUGH	513,568,408	494,444,712	\$29.52	100.4	\$30.32	212
COLEBROOK	179,011,355	166,634,128	\$28.51	106.0	\$30.37	213
HAVERHILL	345,742,793	334,921,766	\$29.76	98.0	\$30.46	214
CANAAN	341,996,171	346,842,717	\$31.47	97.8	\$30.60	215
JAFFREY	407,483,245	436,467,335	\$33.00	93.3	\$30.66	216
DUBLIN	230,289,892	207,798,582	\$27.81	110.9	\$30.77	217
HENNIKER	399,199,052	423,497,816	\$33.33	93.3	\$30.90	218
HOPKINTON	620,426,021	662,217,698	\$33.55	92.7	\$31.00	219
SULLIVAN	52,728,231	52,564,068	\$31.58	99.1	\$31.36	220
UNITY	126,003,365	117,271,981	\$30.13	107.0	\$32.29	221
TROY	108,170,655	121,313,518	\$36.62	92.1	\$32.39	222
PITTSFIELD	265,648,517	252,579,826	\$32.25	102.3	\$33.51	223
CHARLESTOWN	281,348,984	280,863,762	\$35.05	95.9	\$34.79	224
GORHAM	273,762,000	241,079,177	\$31.85	99.4	\$35.40	225
KEENE	1,825,508,640	1,804,187,319	\$36.39	99.8	\$35.98	226
WINCHESTER	275,887,979	231,232,849	\$30.53	116.7	\$35.98	226
MIDDLETON	164,922,148	165,183,120	\$36.16	99.1	\$36.02	227
NORTHUMBERLAND	111,134,907	104,877,259	\$36.80	96.5	\$38.24	228
CLAREMONT	710,258,424	706,379,839	\$42.62	100.8	\$41.83	229
BERLIN	397,452,679	315,048,262	\$39.19	112.0	\$48.07	230
<b>STATE TOTAL</b>	<b>162,782,123,177</b>	<b>173,365,433,698</b>	<b>\$22.13</b>	<b>94.2</b>	<b>\$20.60</b>	

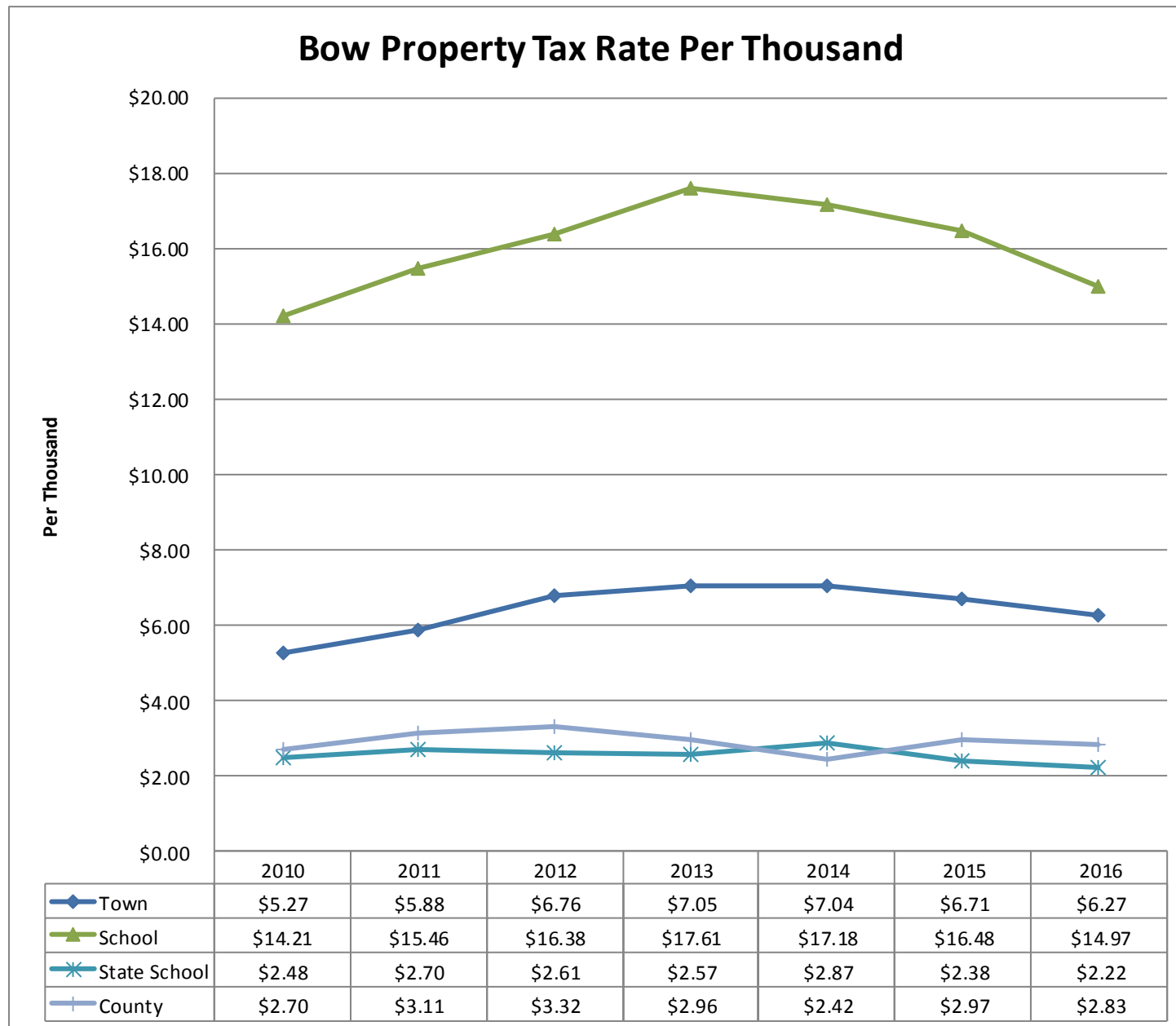
\*RANKING BASED ON LOWEST TO HIGHEST FULL VALUE TAX RATE.

## Actual and Predicated Population 1960 -2030



\*US Census Bureau, Decennial Census

\*\*NH Office of Energy and Planning, Fall, 2016



## **END OF REPORT**