### **TOWN OF HUDSON**

### CAPITAL IMPROVEMENTS PROGRAM



### **FISCAL YEAR 2016 ELEMENT**

**SEPTEMBER 2014** 

PREPARED BY THE CAPITAL IMPROVEMENT

COMMITTEE (C.I.C.)

FOR THE

PLANNING BOARD of HUDSON, NEW HAMPSHIRE

### TOWN OF HUDSON CAPITAL IMPROVEMENTS PROGRAM FY 2016 CIP ANNUAL ELEMENT

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### Capital Improvement Program

Committee Members FY2016

### FY2016 ELEMENT CAPITAL IMPROVEMENTS COMMITTEE MEMBERS

George Hall

18 Par Lane

Planning Board

Richard Maddox

323 Fox Run

Board of Selectmen

Timothy Malley

4 St. John Street

Planning Board

Glenn Della-Monica

38 Bush Hill Road

Planning Board

Geoffrey Keegan

7 Sousa Boulevard

**Budget Committee** 

Michael Truesdell

3 Watts Circle

School Board

Laura Bisson

7 Nathaniel Drive

School Board

Normand Martin

Citizen Member

3 Edgar Court

### **STAFF**

Steve Malizia, Town Administrator Kathy Carpentier, Finance Director John Cashell, Town Planner

## Capital Improvement Program PREFACE

### **PREFACE**

The Capital Improvements Committee (CIC) concentrated on developing a Capital Improvements Program (CIP) in accordance with NH RSA's 674:5 – 674:7 - the state statutes that authorize and mandate local Capital Improvements Programs. Specifically, and as in years past, the CIC supported and ranked capital improvement projects deemed most in need of implementing, as well as having a likelihood of implementation in Fiscal Year 2016. The CIC recognizes that by achieving this latter aspect of the annual CIP, it will continue to help strengthen this program. Thus, continuing to make the CIP an important capital improvement tool for all eligible applicants, i.e., municipal departments, agencies, districts, commissions and private citizens.

Another important aspect of the CIP is to recognize that this program is not a one-year capital improvements program, but rather, a six-year program. As such, the CIC requests each applicant to submit capital improvement projects, if applicable, for each of the six succeeding fiscal years.

As in prior years, the CIC worked with all CIP applicants, relative to providing them with the information they needed to actively participate in this year's CIP. For strong Committee and administrative support of the annual CIP will help to continue to improve Hudson's municipal services and facilities.

Please note, for purposes of the CIP, a Capital Project, is defined as follows:

Capital projects: non-recurring municipal expenditures for projects or facilities having a useful life of at least five years, and generally involving a gross expenditure of at least \$50,000. Note: excluded from this definition is scheduled vehicle (rolling stock) replacement.

In regard to Impact Fees associated with the CIP, the Town of Hudson employs two established sets of impact fee processes for capital improvements\*\*, with these fees collected for:

- υ Routes 3A, 102, and 111\*
- υ Public Schools, Grades 1 through 8
- \* In January 2014 the Town of Hudson engaged the services of VHB, Inc., relative to assessing a new methodology for the collection of Impact Fees. As of this writing, this assessment is still under review.
- \*\* With the completion of the Rodgers Memorial Library in 2010, the collection of Library Impact Fees ceased.

## Capital Improvement Program Chapter 674:5

### Capital Improvements Program

### **CROSS REFERENCES**

Master plan generally, see RSA 674:1 et seq. Municipal budgets and finance generally, see RSA 32-34.

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. The capital improvements program may encompass major projects being currently undertaken or future to be 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 and the budget committee in their consideration of the annual budget.

### HISTORY

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

### CROSS REFERENCES

Consideration of program by mayor and budget committee, see RSA 674:8. Preparation of program, see RSA 674-7.

### ANNOTATIONS

Construction and application
Other than its management tool capabilities, a capital improvements program has no part to play in review of subdivision applications presented to governmental authorities. Zukis v. Town of Fitzwilliam (1992) 135 N.H. 384, 604 A 2d 956.

Cited Cited in Rancourt v. Town of Barnstead (1986) 129 N.H. 45, 523 A.2d 55.

### Library References

New Hampshire Practice 15 N.H.P. Land Use Planning and Zoning 4.01, 5.08, 17.05, 26.03, 31.02.

674:6 Purpose and description. The capital improvements program shall classify projects according to the urgency and need for realization and also contain the estimated cost of each project and indicate 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.

### HISTORY

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

### ANNOTATIONS

Construction and application Other than its management tool capabilities, a capital improvements program has no part to play in review of subdivision applications

presented to governmental authorities. Zukis v. Town of Fitzwilliam (1982) 135 N.H. 384, 604 A.2d956.

Library References

New Hampshire Practice 15 N.HP. Land Use Planning and Zoning 4.02, 29.02.

674:7 Preparation.

In preparing the capital improvements program, the planning board shall confer, in a manner deemed appropriate by the board, 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.

Whenever the planning board is authorized and directed to prepare a capital improvements program, every municipal department, authority or agency, and every affected school district II. board, department or agency, shall upon request of the planning board, transmit to the board a statement of all capital projects it proposes to undertake during the term of the program. The planning board 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.

### HISTORY

SOURCE. 1983, 447;1, eff July 2, 1995 Admendments-1995. Paragraph II: Inserted "and every affected school district board, department or agency" preceding "shall, upon request" in the first sentence and deleted "or" following "authority" and inserted "or school district board, department or agency" preceding"concerning" in the second sentence.

### CROSS REFERENCES

Authorization of program, see RSA 674:5. Contents of program, see RSA 674:6.

### LIBRARY REFERENCES

New Hampshire Practice 15 N.H.P. Land Use Planning and Zoning 4.03

674:8 Consideration by Mayor and Budget Committee. Whenever the planning board has prepared a capital improvements program under RSA 6774:7 it shall submit its recommendations for the current year to the mayor and the budget committee, if one exists, for consideration as part of the annual budget.

### HISTORY

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

CROSS REFERENCES

Authorization of program, see RSA 674:5. Purpose of program, see RSA 674:6.

### LIBRARY REFERENCES

New Hampshire Practice 15 N.H.P. Land Use Planning and Zoning 4.03

### Capital Improvement Program



Ratings FY2016 **Updated in June 2014** 

### Town of Hudson, NH Capital Improvement Program (CIP) Ratings Fiscal Year 2016

Total Points	150	140	133	132	131	107	86.
FY16	\$6,242,643	\$3,925,000	\$3,433,305	\$410,000	\$345,000	\$612,938	\$848,592
Department	Fire Department	Municipal Utility Committee	Police Department	Land Use Division	Land Use Division	Fire Department	Fire Department
Project	Central Fire Station	Windham Road Booster Station, 1.2 MGD Storage Tank Barrett's Hill Rd. & 5,200 If 12" Water main Barretts Hill Rd.	Police Facility Expansion	County Road Bridge	Melendy Road Bridge	Radio System Upgrade	Burns Hill Fire Station
Rating	-	7	3	4	ນ	9	7

### Capital Improvement Program

\*

Six Year Funding Plan
FY 2016 -- FY 2021
Updated in June 2014

	Town o	Town of Hudson, New Hampshire	ıpshire					
	FY2016 Capital In	Capital Improvement Program Six Year Funding Plan	m Six Year F	unding Plan				
tankin	Project	Department	FY 16	<u>FX17</u>	<u>FY18</u>	<u>FY19</u>	FY20	FY21
-	Central Fire Station	Fire	\$6,242,643					
7	Windham Road Booster Station, 1.2 MGD Storage Tank & 5,200 L.F. 12" Water Main Barretts Hill Rd.	Municipal Utility Comm.	\$3,925,000					
60	Police Facility Expansion	Police	\$3,433,305					-
4	County Road Bridge	Land Use Division	\$410,000					
w	Melendy Road Bridge	Land Use Division	\$345,000					
9	Radio System Upgrade	Fire	\$612,938					
7	Burns Hill Fire Station	Fire	\$848,592					
	Below are Proposed Non-Ranked Out-Year Proposed CIP Projects							
	Gordon Street Tank-Paint Exterior w/misc. repairs	Municipal Utility Comm.		\$277,000				
	Gordon Street Tank -Paint Interior	Municipal Utility Comm.		\$205,000				
	3,250 l.f 16" Water Transmission Line, Lowell Rd. from Birch St. to Centra St.	Municipal Utility Comm.			\$767,000			
	1,100 L.F 12" Water Transmission Line, Sagamore Park Dr.	Municipal Utility Comm.			\$215,000			
	1,000 L.F16" Water Transmission Line, Ferry St.	Municipal Utility Comm.				\$774,000		
	4,500 L.F 12" Water Transmission Line, Lowell Rd.	Municipal Utility Comm.					\$1,500,000	
	Add right-turn lane on Rte. 3A/Lowell Rd. SB from Flagstone Dr.							
	to Sagamore Bridge Rd. WB	Land Use Division		\$520,000				
	Continue Ped/Bike Lane Derry St/Rte. 102 from Towhee Dr. to Megan Dr.	Land Use Division			\$548,446			
	Continue Ped/Bike Lane Derry St/Rte. 102 from Phillips Dr. to Hudson Mall	Land Use Division				\$241,606		
	Continue Sidewalk on 3A/Lowell Rd. from Nottingham Sq. to Executive Dr.	Land Use Division					\$187,003	\$249.338
	CONTINUE SIGEWAIN ON SPALEOWEN INC. MOUNDINGS OF CONTAIN INC.							
	Grand Total:		\$15,817,478	\$1,002,000	\$1,530,446	\$1,015,606	\$1,687,003	\$249,338

### Capital Improvement Program

\*

Tax Rate Impact FY2016

FY2014 - not updated as of June 2014

Town of Hudson, New Hampshire Capital Improvement Program Tax Rate Impacts (Town) Fiscal Year 2016

Ranking	Project	Department	Project Cost	Impact Fees Gr	Grants   Capital Reserve		Bonds Donz	Donations 7	Taxes
	- = :		FY2016						
1	Central Fire Station	Fire	\$6,242,643						
							0,000		
7	Windham Road Booster Station, 1.2 MGD Storage Tank &	Municipal Utility Comm.	\$3,925,000			\$6,	\$6,242,643	1	
	5,200 L.F. 12" Water Main Barretts Hill Rd.								
3	Police Station Expansion	Police	\$3,433,305			\$3,	\$3,925,000		
4	County Road Bridge	Land Use Division	\$410,000	\$32	\$328,000	\$3,4	\$3,433,305	4	\$82,000
w	Melendy Road Bridge	Land Use Division	\$345,000	\$27	\$276,000			69	\$69,000
9	Radio System Upgrade	Fire	\$612,938	-		28	\$612,938		
7	Burns Hill Fire Station	Fire	\$848,592			\$8	\$848,592		
	Grand Total		\$15,817,478	1 \$60	\$604,000	\$15	\$15,062,478	S	\$151,000

### Capital Improvement Program



**Debt Schedule** 

FY2016

As of FY2014 - not updated thereafter

Town of Hudson, NH Capital Improvement Plan FY 2016 Debt Schedule

ļ	FY16	FY17	FY18	FY19
Current Lease/Purchase Payments	43,999	35,795	52 M	3.
Current Outstanding Town Bonds	\$0	80	80	80
Current Total Town Debt				
Current Debt Service on Town Tax Rate	\$0.02	\$0.01	\$0.00	\$0.00
Capital Spending Tax Rate	\$0.98	80.99	\$1.00	\$1.00
Available Tax Rate for Capital Projects	\$1.00	\$1.00	\$1.00	\$1.00
Available Budget for Capital Projects	\$2,509,373	\$2,534,979	\$2,560,585	\$2,560,585

The above chart details the available annual budget for capital projects if \$1.00 of the Town tax rate were reserved for capital projects. The chart takes into account current outstanding debt obligations.

<u>SI</u>	per \$1,000	\$0.05	\$0.10	\$0.15	\$0.20
	SAMPLE BOND TAX RATE IMPACTS per	\$1,000,000 Bond (10 yr Repayment)	\$2,000,000 Bond (10 yr Repayment)	\$3,000,000 Bond (10 yr Repayment)	\$4,000,000 Bond (10 yr Repayment)

### Capital Improvement Program



Impact Account Balances

Updated in June 2014

# Capital Improvement Plan FY 2016 Impact Account Balances

Account	As of 6-30-14 Balance	Committed	Available
CORRIDOR ACCOUNTS			
2070-086 Route 111	\$371,396	0\$	\$371,396
2070-090 Lowell Rd (Route 3A)	\$98,629	\$0	\$98,629
2070-091 Route 102	\$426,873	0\$	\$426,873
IMPACT FEES	të.		
2080-051 School Impact Fees	\$129,980	\$0	\$129,980
OTHER FEES			
2050-182 Recreation Fees	\$49,683	0\$	\$49,683
2050-113 Shepherd's Hill/Benson Fees	\$3,978	0\$	\$3,978
2050-053 Sidewalks	\$30,063.03	0\$	\$30,063.03
2050-183 Elm Ave/Webster St Improvement	\$7,764.23	\$0	\$7,764.23
2050-190 Alvirne Varsity Hockey Program	\$15,746.23	0\$	\$15,746.23
2050-564 Walgreens 102 Offsite Improvement	\$7,063.11	0\$	\$7,063.11
2050-576 Reeds Ferry Rte 102 Offsite Improvments	\$7,070.85	80	\$7,070.85
2050-807 Oak Ridge (Belknap Rd Improvements)	\$16,520.01	0\$	\$16,520.01

### Capital Improvement Program

### Summary and Recommendations FY2016

### **Summary and Recommendations**

In preparing the Capital Improvements Program for FY2016, the Capital Improvements Committee (CIC), determined the capital improvement needs for the Town of Hudson in accordance with RSA 674:5 – 674:7. That is, throughout the development of this year's Capital Improvements Program (CIP), the CIC focused on determining: (i) the capital improvement projects most in need of implementing, (ii) estimating the cost to implement each project, (iii) identifying project implementation funding sources and (iv) reviewing the status of previous CIP projects.

To the effect of the above, the following represents a summary and recommendations on those capital improvement projects determined by the CIC as most in need of implementation. Please note, the following project recommendations should not lead the reader to think that all 7 projects should be budgeted for implementation in FY2016. Rather, the following project recommendations should be considered as a multi-year CIP implementation proposal, and one that the Board of Selectmen and Budget Committee may want to consider seeking outside consultation, relative to developing a financial strategy to best fund the subject projects so that each becomes implemented.

With the foregoing financial aspect of this summary taken into consideration, the CIC determined as qualified for the FY2016 CIP project rating process, the following 7 projects:

1) Central Fire Station – This CIP proposal was submitted by the Fire Department as this department's most important project for the Town to consider for implementation. After reviewing the submitted documentation for this proposal, and after listening to Fire Chief, Robert Buxton's presentation on same, the CIC rated the Central Fire Station as the CIP project most in need of implementation, receiving 150 points in the rating system (please refer to the Ratings Table). In taking this action, the CIC recognized during Chief Buxton's presentation that a new Central Fire Station is not only a facility the Fire Department knows all too well is long overdue and much needed, but it's also a facility the residents of Hudson deserve in order to properly serve their emergency needs.

NOTE: The above Fire Department project, as well as the following 6 FY2016 CIP rated projects, are described in their entirety in the Departmental Submittal Chapter of this CIP, and they are also referenced in the April 14, 2014 and April 28, 2014 CIC Meeting Minutes (included as the final Chapter of this CIP). Each project is further referenced, as to its associated cost, tax rate impact and funding sources in the Ratings, Six Year Funding Plan and Impact Account Balances Tables of this CIP.

2) Combined Water Improvement Project: i.e., the Windham Rd. Booster Station, the 1.2 MGD Storage Tank at Barretts Hill Rd. and the 5,200 If 12" Water Main along Barretts Hill Rd. During the review of the submitted project documents, and presentation on these 3 projects by the former Municipal Utility Committee Chairman, Bernie Manor, both Mr. Manor and the CIC recognized that in order for any 1 of the 3 projects to produce a benefit to the Town's water users, all three projects must be completed. As such, the CIC voted to

combine the subject 3 projects into 1, and in so doing, this singular water system improvement project received the second highest number of points in the rating process: I points. Note: the CIC also recognized during the review of this project, that it can be funded exclusively by the ratepayers, and not from property tax revenues or other locally produced revenues. As such, the CIC urges, herein, that the Board of Selectmen and Budget Committee take into consideration the need for this project to be implemented, and because of its exclusive funding source, move this project forward toward fruition.

Avoie, as the Police Department's sole CIP proposal, and although this project received the 3d highest number of points by the CIC, 133, it was recognized by Chief Lavoie, as well as the CIC, that until the Central Fire Station becomes a reality, approval of this project for implementation will most likely be deferred. Nonetheless, the CIC recommends, herein, that it is important for the Town to recognize that the existing Police Station was undersized when built, and 15 years now since its completion, it is even more undersized today, and in the future will be even more so. As such, the CIC, in the least, and for purposes of inclusion in this FY2016 CIP, would like to bring this project to the attention of the Board of Selectmen and the Budget Committee, as a project certainly in need of implementation and not too many years in the future. Also, as stated in the above two project recommendations, the CIC would like to emphasize, here, that with the creation of the right financial strategy this project could also become a reality in the foreseeable future.

NOTE: on the topic of creating the financial means to fund all of the projects recommen in this summary, please further note the following: there has, perhaps, never been a more opportune time in Hudson's modern history to invest in and to be able to finance the subject projects. This position, in part, takes into consideration the following: the Town does not need to build a new school(s). Yes, rehabilitation work of Hudson's schools is being planned for by the School Board, but the huge cost associated with building of a new school(s) is not anticipated. Also, it's obvious the Town doesn't need a library, senior center or park in the foreseeable future. Also, the Town has little, if any, municipal debt to be concerned with. Taking the aforementioned existing infrastructure and financial advantages into account, plus the still present historically low interest rates, the present time is the right time to consider investing in the CIP related infrastructure needs of the community of Hudson.

4) County Road Bridge – Of the 7 projects considered by the CIC for implementation, it was recognized that this project, as well as the following one, namely, the Melendy Road Bridge, should be considered by the Board of Selectmen and Budget Committee for funding and implementation in FY2016. This recommendation takes into consideration the many years both bridges have been planned for (i.e., in excess of 16 years), and as described in the Land Use Division Project Submittal Chapter of this CIP, both bridges are cited in the NHDOT "Red List" on bridges dating back to 2001. In terms of whether or not both projects are financially feasible to implement, the CIC wishes the Board of Selectmen and Budget Committee to recognize that the Town's share to construct both bridges is estimated to be only \$150,000. For the total cost involved for both bridge projects, please refer to the Land Use Division CIP Project Submittal Chapter of this CIP.

- 5) Melendy Road Bridge Recommended, as cited-above.
- 6) Radio System Upgrade After reviewing Fire Chief, Robert Buxton's, proposal to replace the Fire Department's existing radio system, which, according to the Chief, "...is reaching the end of its serviceable life," the CIC voted in support of this project. It received a total of 107 points, and was recognized as another important infrastructure improvement project for the Board of Selectmen and Budget Committee to consider supporting in their respective preparations of the FY2016 Town Budget.
- 7) **Burns Hill Fire Station** As with the Central Fire Station, the CIC voted to recommend implementation of this Fire Department expansion proposal, which concerns 1 of its 2 secondary stations. The CIC's support of this proposal resulted from their realization that there is a true need to upgrade and modernize this important emergency facility, so that the residents of the south central area of the community are provided with adequate emergency services.

In closing, and in regard to: (i) estimating the cost to implement each of the above-cited projects, (ii) identifying project implementation funding sources, (iii) reviewing out-year CIP project proposals, as well as (iv) reviewing the status of previous CIP projects, please refer to the following chapters and tables of this CIP:

- ✓ CIP Ratings FY2016
- ✓ Six Year Funding Plan
- ✓ CIP Tax Rate Impact
- ✓ Debt Schedule
- ✓ Impact Account Balances
- ✓ Departmental Submittal, and
- ✓ Status of Projects Rated in the FY2010 CIP

Respectfully Submitted,

John M. Cashell Town Planner

### Capital Improvement Program

Report of the Chairman FY2016

### CHAIRMAN'S REPORT - CIP FISCAL YEAR 2016

The CIP for FY2016 continues the work done in previous budget planning cycles. During April of this year, the Capital Improvement Committee (CIC) reviewed and prioritized the requested expenditures of capital improvement projects presented by the various town departments and organizations. The CIC used the same process to evaluate and score each of the proposed projects as used in prior years. The totals of the CIC member's scores were calculated and then used to determine the final ranking priorities for each of the projects. This report documents FY2016 CIP project rankings, which as prescribed by NH RSA's 674:5 – 674:7, will assist the Board of Selectmen and Budget Committee in preparing the FY2016 municipal budget. Note: for specific FY2016 CIP project rankings, please refer to the following sections of this CIP: Capital Improvement Program Ratings FY2016 and Capital Improvement Program – Six-Year Funding Plan FY2016 thru FY2021.

During the course of the CIP process this year, as well as the previous CIP, it became evident that the system used to rank and prioritize proposed projects does have some flaws, and as a result, the CIC would recommend that the Town consider revising how the CIP proposals are put forth by the Town departments and organizations. Primarily, a source of funding should be available to Department Heads, allowing them to hire professionals to assist in preparing their proposals providing drawings, descriptions, and reliable cost estimates. While the CIC recognizes the difficulty departments and organizations may face gathering some information, determining the scope and cost of a particular project is crucial, relative to the CIC assigning priority rankings.

In closing, I would like to personally thank each and every member of the CIC this year for taking time out of their busy schedules to attend the meetings, review the proposals and listen to the presentations made by the various departments and organizations. I would also like to thank Town Staff for the efforts put forth in preparation for meetings, assisting in the evaluation process and the preparation of the CIP Report.

Sincerely,

George Hall Chairman, Capital Improvements Committee

### Capital Improvement Program

Attendance Report FY2016

# ATTENDANCE REPORT

					April 28, 2014	April 14.2014	MEFTING DATE		
	A- Absent	X-In Attendance	E- Excused	b- 1	×	×	George Hall		
					×	×	Richard Maddox	c	
					×	×	Timothy Malley		
			2-4		×	X	Glenn Della-Monica	Capital Improv	
						X	Geoffrey Keegan	Capital Improvements Committee Members	
					×	<b>н</b>	Michael Truesdell	e Members	
					Į.		Laura Bisson		
					Þ	5 ×	Normand Martin		

### Capital Improvement Program

### Status of Projects Ranked in the FY2010 CIP Element\*

\*FY2010 the most recent year the Town of Hudson prepared and completed a CIP.

### Status of Projects Ranked in the FY2010 CIP

- 1. Circumferential Southern Tier Two-Lane Feasibility Study In the fall of 2007 this study received \$15,000.00 in Community Technical Assistance Program (CTAP) funding. Completed.
- 2. Melendy Rd. Bridge Improvements Funding and construction for this project is scheduled for 2016. Project estimated to cost: \$100,000.00 with 80% funded by DOT and 20% by the Town.
- 3. 1.2 MGD Storage Tank Barretts Hill Rd. Funding for this Town water improvement project remains pending. Tentatively scheduled for construction by the Town in 2016.
- 4. Windham Rd. Booster Station Funding for this Town water improvement project remains pending. Tentatively scheduled for construction by the Town in 2016.
- 5. 5,200 L.F. 12" Water Main Barretts Hill Rd. Funding for this Town water improvement project remains pending. Tentatively scheduled for construction by the Town in 2016.
- 6. Pelham Rd. Culvert at 2d Brook (Structural Upgrades) This project has been funded by the Town and construction is scheduled to commence in the summer of 2014.
- 7. Police Department Expansion Project In 2007 this project did not receive the Board of Selectmen's support, and as such, was not placed on the 2008 Town Warrant. This project was resubmitted as a FY2010 CIP project, but was not ranked. Rather, it will possibly come before the CIP Committee as a FY2016 project.
- 8. Benson's Train Depot Welcome Center (interior design)\* Incomplete.
- County Rd. Bridge Upgrade Scheduled for DOT funding and commencement for construction in FY2016.
- 10. Haselton Barn (remove roof, repair frame and replace with metal roof).\* Pending.
- 11. Alvirne High School ADA Improvements (i.e., elevator, chair lifts and bathrooms) Pending.
- 12. H.O. Smith School Exterior Elevator Pending.
- 13. Kimball-Webster School Administration Bldg. ADA Improvements (i.e., exterior chair lift serving all floors, ADA railing and vestibule) Pending.
- 14. Hills House ADA Improvements (i.e., bathrooms, ramp and study to access 2d flr.) Pending.
- 15. Development of Site Plan for Benson's Train Center Welcome Center Relocate/Restore Historic Benson (renovate grounds) Historic Benson (Renovate Office & Kitchen Building)\* Mostly Complete.
- 16. Nottingham West School HVAC Upgrade -Pending.

**Note:** the word "pending" above means funding and construction start dates have not been determined for the subject project.

### Capital Improvement Program

Department Submittals FY2016

### Hudson Fire Department

### **FY2016 CIP**

## Central Fire Station Burns Hill Fire Station Radio System

							Radio System	BUTTIS TILL THE SAGMENT	General Fire Station	Pentral Fire Station	Description of Project or Equipment		,	TABLE 3: LIST OF
								Till die	Fire	Fire	Dept.			PROJECT
								ω	2	-	Rank	Priority		S SUBMIT
								FY2016	FY2016	FY2016	Year	Program	Droposed	TED FOR F
								612,938	848,592	6,242,643	Total Cost	) )		EVIEW IN CA
											Tidlections	Drainet Notes		TABLE 3: LIST OF PROJECTS SUBMITTED FOR REVIEW IN CAPITAL IMPROVEMENT PROGRAM
					<i>-</i>							or Point Score		ROGRAM

TAB:	EMENTS PROGRAM
repartment: Hudson Fire Department Department Priority:	77/201/
ype of Project Check One)  Primary effect of project is to: X_ Replace or repair existing facilitie Improve or repair existing facilitie Expand capacity of existing servi Provide new facility or service ca	es or equipment les or equipment ice level facility
Service Area of Project Check One)  Region X Town School District	Central Business District Neighborhood Street Other Area
Project Name: Hudson Fire Department — Central Fire Station  Description: This CIP project proposes to build a new Central Fire Station  P.C. in November of 2007. Additional information and rationale are attack  Rational for Project: (Check those that apply: (Claborate below.)  Removes imminent threat to public I X. Alleviates substandard conditions or X. Responds to federal or state requirer X. Improves the quality of existing sen X. Provides added capacity to serve grown in the provides incentive to economic deveraged in the project in th	health or safety r deficiencies ment to implement vices owth
Narrative Justification: Please see the attached justification and supporting Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\sigma\$)  \$ Planning/feasibility analysis  Architecture & engineering fees  \$ Real estate acquisition  \$ Site Preparation  \$ Construction  \$ Furnishing & equipment  \$ Vehicles & Capital Equipment  \$ includes most of above @ \$325/sq.ft  Total Project cost estimate	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Source of Funding: AMOUNT  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$6,242,643.00	Form Prepared By:  (Signature)  Fire Chief Robert M. Buxton (Approved by)  Hudson Fire Department (Department/Agency)



### TOWN OF HUDSON

### FIRE DEPARTMENT

39 FERRY STREET, HUDSON, NEW HAMPSHIRE 03051



Emergency Business 911 603-886-6021 603-594-1164 Robert M. Buxton Chief of Department

TO:

Fax

John Cashell Town Planner

FR:

Robert M. Buxton

Fire Chief

hints

DT:

April 8, 2014

RE:

Capital Improvement Project #1 - Central Fire Station

The Fire Department is requesting the Planning Board support the construction of a new Central Fire Station. This would be inclusive of land purchase, design and construction of the new facility.

In 2007 the Board of Selectmen supported the Fire Department by investing in a facility study for the Lenny Smith Central Fire Station. This facility is one of four buildings that support the Hudson Fire Department.

The Lenny Smith Central Fire Station was built in 1952 and a single story addition was completed in 1987. The original building is 62 years old. The facility is showing signs of its age and most systems are reaching the end of their serviceable life. The building is structurally sound but does not meet the current requirements for the American Disabilities Act or National Fire Protection Association guidelines. The limitations of this facility not only affect the housing of our staff, but also greatly impact the fleet of the Fire Department. The door heights on the apparatus floor have great impact on the specification of apparatus the town purchases. In 2013 the Fire Department purchased an ambulance and during the specification review we were limited to the type of chassis that we could purchase because of the overall height of the door.

Currently, the Fire Department operates two facilities near Town Hall. We currently operate out of the Central Fire Station, which is approximately 9,806 square feet and the Fire Administration Building, which is approximately 1,800 square feet. During the facility study we conducted a space needs analysis which identified our space needs were approximately 23,000 square feet.

The Central Fire Station is the main facility for the Fire Department. All of our services begin out of this facility, so the impact to having a modern and accessible facility is important to not only the Fire Department, but also the community. This building is a piece of critical infrastructure owned by the Town of Hudsgr.

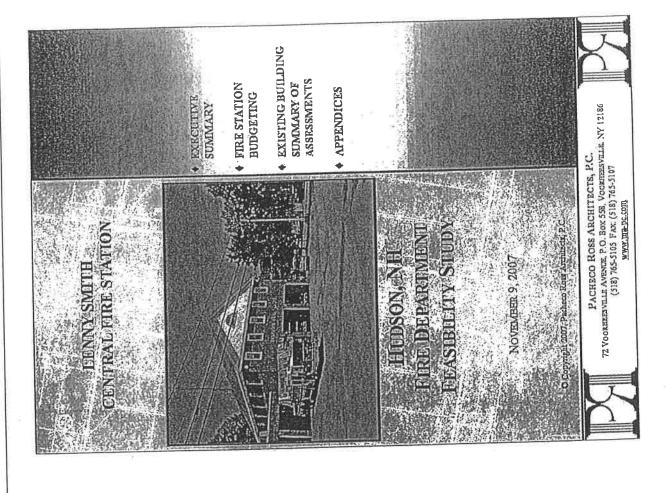
### Estimated Cost for this project is: \$6,242,643

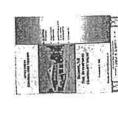
The Fire Department approached this project from a planning perspective. As you are aware, when we begin to look at the capital inventory of the town we can certainly identify several projects. We understand that our needs will be balanced out against the needs of other departments in town and look forward to your review. We believe this list of projects highlight the capital needs of the Fire Department. We look forward to reviewing the proposed projects with you so we can submit our proposals to the planning board for review.

Please contact me with any questions.

### Hudson Fire Department

Central Fire Station CIP FY16 Project #1





## Scope of Study

- Assess Lenny Smith Central Fire Station to determine its continued capacity to serve as a fire station.
- Study the possibility of renovation.
- Study the possibility of additions.
- Study the possibility of new construction on the existing site and whether the land and existing building will support such construction.
- Develop budgets for those options that were deemed feasible.



# Central Fire Station History

- Original two story building built in 1952.
- Two Apparatus Bay single story added in 1987.
- Original building 62 years old showing its age in terms of infrastructure and systems.
- Some systems while old and outdated are still serviceable.



- Building is structurally sound.
- Building does not meet current building codes, Americans with Disability Act (ADA), or Current National Fire Protection Association standards (NFPA).
- Access to second floor and bathroom facilities do not meet ADA requirements.
- Heating, Ventilation, Air Conditioning (HVAC) and electrical systems do not meet current codes.

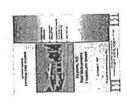


- repairs and is nearing the end of its useful life. Building has suffered neglect and lack of
- Repairs while needed, will not notably extend the building's serviceability or life.
- Mechanical, Electrical, and Plumbing (MEP) Renovation such as gutting and replacing systems is not practical or cost effective.



- Internal changes to interior were not well thought out or conducive to firematic layout.
  - Example Workout room added to apparatus bays creating difficult access and poor ventilation.
- Example Mechanical room added to apparatus bays creating a lack of storage space on apparatus floors.
- floor has been created by addition or movement of A circuitous corridor/circulation pattern on second interior walls.
- In terms of life safety, there is only one single egress stair from second floor.





## Egress and Exit Issues:

- Lack of panic hardware on all code required egress doors.
- Lack of illuminated exit signs in the direction of egress.
- obstructions, do not utilize their clear path, and Paths and means of egress are not free of have dead end corridors.
- Doors do not swing in direction of egress.
- Doors infringe on the width of exit corridors.



## Central Fire Station Size, Scope, Program

- Evaluation of Department needs, response, training issues, operations and growth potential was conducted to:
- Determine basic needs to accommodate firefighters, EMTs and public.
  - Assess the size and scope of the fire station that Hudson needs.
    - To determine if this amount of space can fit onto the existing site.
- Information gathered generates a space analysis document of the probable required building size.

# Central Fire Station Space Needs Analysis

This spreadsheet represents the efficient and effective working space needed for today's Hudson Fire Department

athe spreadsheet is broken down into program areas such as:

- Firematic Support
- Firefighter & EMS
- Administration
- Public Spaces
- Miscellaneous Spaces
- Circulation Walls

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## Central Fire Station Space Analysis Conclusions:

- Total of 23,529 sq. ft necessary to meet needs of today's fire department.
- Requires a building of almost twice the size of the existing two buildings combined.
- Provides modern bays that are larger than the current bays
- Provides for safety, training and maintenance within the bays.
- Provides more living space.
- Provides a properly sized and secure dispatch center.
  - Provides for apparatus bay support services.

## Central Fire Station Space Analysis Conclusions:



# Additional Benefits (continued):

- Provides required stairs, elevator, egress, corridors and bathroom spaces.
- equipment, apparatus, staff and personnel found in Hudson, the size and scope are comparable to many other similar Provides needed facilities with response capabilities, stations in the Northeast.
  - Firefighters and Citizens of Hudson who may visit or utilize Provides a safe, accessible, and energy efficient facility for the facility.
- due to the development of a modern fire safety facility with Provides a long term cost savings and return on investment energy efficient Mechanical, Electrical, and Plumbing systems.

# Current Building Square Footage



Central Fire Station Existing Building Size

(Square Feet)

Original Apparatus Bays = 3,363

• Apparatus Bay Addition = 1,800

• First Floor Non – Bay = 640

• Second Floor Non – Bay =  $\frac{4,003}{700}$ 

Administration Building Size

(Square Feet)

• First Floor = 900

Second Floor = 900

Total =1,800

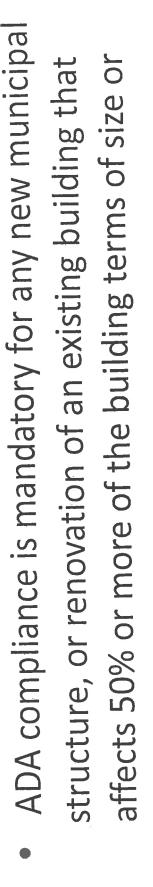
Total Existing Fire Station and Administration Building Size

(Square Feet)

Total =11,606 Square Feet



## ADA Requirements/Compliance Central Fire Station

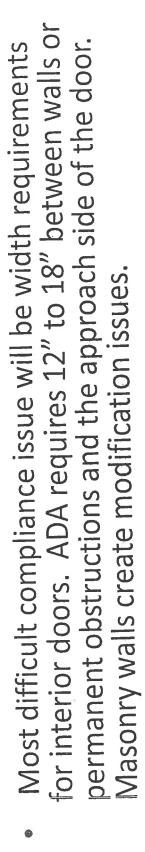


fixtures, proper door width and swing are some of ADA compliant fixtures, proper space between the necessary requirements.

cost.



## ADA Requirements/Compliance Central Fire Station



Other Compliance Issues:

Shower accessibility

Room Signage

Countertop height

Interior curbs

Light switch placement and height

· Electrical receptacle placement

- Door hardware

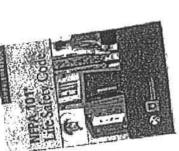
Stairs



## Other Code Requirements/Compliance Central Fire Station

- International Building Code (IBC)
- **NFPA Standards**
- ADA
- FEMA FA-168 Safety and Health Considerations for the Design of Fire and Emergency Medical Services Stations







afety and Health Considerations







## Central Fire Station Options/Recommendations

## Four Options:

- Repairs, maintenance or minor remodeling:
- Involves cosmetic changes but does not alter infrastructure, does <u>not</u> change basic systems, and does not move walls or involve selective demolition

## Renovations and/or additions:

- Renovation involves selective demolition and replacement
- units and ancillary components. There is selective demolition at points of connection Example would be to remove an HVAC system or mechanism and replace it with new and removal of the existing system. New work would be code compliant and meet current regulatory standards
- Raze the fire station and build new on site.
- Build a new facility at different location.



## Town Zoning and Regulatory Requirements Central Fire Station

- Central Fire Station site is zoned B-2 Business District
- Fire Station is a permitted use (Table of Principal Uses)
- Article VII, Dimensional Requirements Table 334.27, the following requirements apply:
- Minimum lot area with sewer and water 30,000 sq.ft
- Minimum frontage 150 ft
- Building setbacks for front, side and rear yards in feet -50/15/15
- Library and School Street setbacks are only 40 feet
- exceeding 38 ft to highest part of roof. Does not include antennas' or Section 334.14 Building Height restricts any habitable structure from cupola's
- Current height is approximately 36 ft



## Central Fire Station Options/Recommendations

# Barriers to renovations or building a new station on

#### site:

- Renovation work must take place around 24/7 inhabitants and response that is germane to the fire station.
- Relocation of crews would be necessary if a new building is built on site; this adds additional costs of relocating during construction including temporary structure, relocation of dispatch center, and other critical operational issues.
- Relocation of crews could effect public safety due to response times of relocating. i
  - Renovations do not add any additional square footage to alleviate current space and operational needs as identified in the space analysis model. i



## Central Fire Station Other Site Concerns/Barriers

# Barriers to renovations or building a new station on

site:

- Current site does not comply with EPA Storm Water Management Phase II requirements.
- Current site does not have waste water/oil separator containment system.
- Current site driveways and sidewalks will require significant improvements to pavement including improvement of traffic flow and parking areas.
- Current site does not have sufficient working space for dumpster.
- Current site emergency generator will require upgrade/replacement and is located in a vulnerable and unsecured area

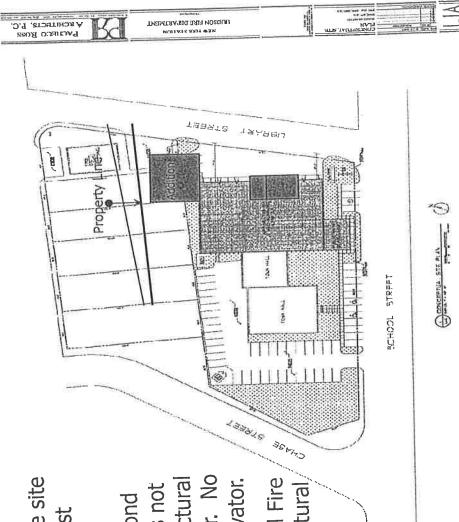


## Central Fire Station Conceptual Site Plan

Conceptual Site Plan was created to evaluate practicality of adding addition/square footage:

#### Findings:

- Any addition, using land within the site is too small, impractical, and not cost effective.
- Adding square footage to the second floor of the addition (Ladder bay) is not feasible. The foundations and structural capacity will not hold a second floor. No additional room for stairs or an elevator.
- Adding a third floor to the Central Fire Station is not practical due to structural considerations.



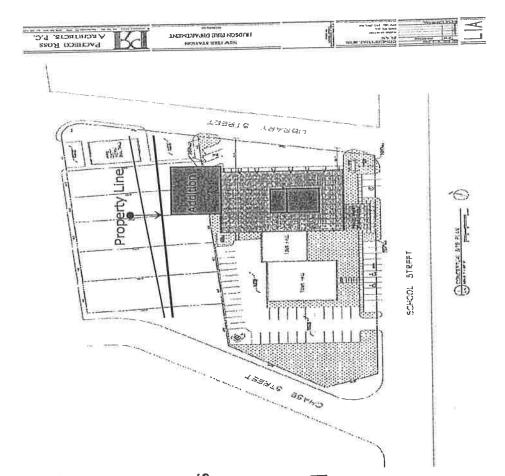


### Central Fire Station Conceptual Site Plan

Conceptual Site Plan was created to evaluate practicality of adding addition/square footage:

#### Findings:

- The addition of bays, support space, and required stairs and elevator utilizes the entire site.
- All other support space would need to be placed on the second floor. Inherently it is more expensive than if the space was attached to the apparatus bays.
- Space over the bays would require interior columns in the current bays and requires a structural floor system that will create a taller building exceeding 38 foot limit if sloped roof is used.



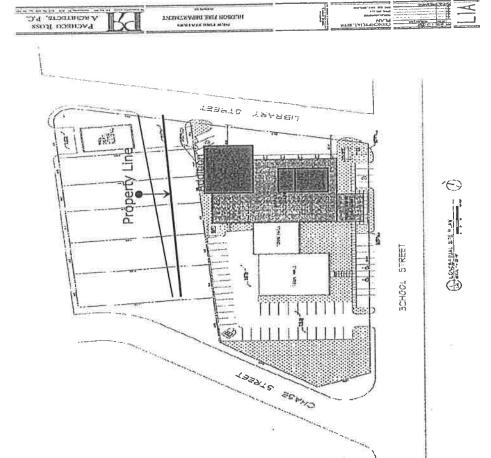


## Central Fire Station Conceptual Site Plan

Conceptual Site Plan was created to evaluate practicality of adding addition/square footage:

#### Findings:

- Forces apparatus bays to face east on Library Street. This will:
- Abolish parking spaces
- Results in improper apron space from bays to road
- Does not respect setbacks
- Eliminates drive through bays
- Essentially forces program space into a area not designed to fit the requirements and needs of the fire department.





## Lenny Smith Central Fire Station Pacheco Ross Architects, P.C. Recommendations

current fire station site is too small and impractical to hold the programmed station or building a new fire station on the "entire" site and moving town • " It is the professional opinion of Pacheco Ross Architects, P.C. that the space. The Town of Hudson may consider a different site for a new fire

 "The Town may also consider upgrading the Lenny Smith Station (not as the Central station) and then building another new station on the new site."



## Lenny Smith Central Fire Station Pacheco Ross Architects, P.C. Recommendations

- " Even if the Town implements a code upgrade/renovation program as outlined Town or its Fire Department as the Central Station. The bays, supports spaces in Conceptual Renovation Budget, this station will <u>not</u> serve the needs of the and operational needs of a central station cannot fit on the given amount of property available."
- •" It is our professional opinion that the considerable amount of money required to bring this facility into code and regulatory compliance is not worth the cost and does not gain any additional space."
- Budget is approximately \$3.2 million and does not add any needs of the Fire Department. The Conceptual Renovation "PRA does not recommend renovation as a cost-effective solution to meet the space requirements and operational new space that is needed by the fire department."

	TABI CAPITAL IMPROVE		
			FY 2016
epartment: Hudson Fire Departmen		2 of 3 Projects	A T DOLLAR TO THE TOTAL TO THE TOTAL
Type of Project Check One) Burns Hill Fire Station	Primary effect of project is to:  Replace or repair existing facilities X Improve or repair existing faciliti Expand capacity of existing service Provide new facility or service cap	ce level facility	N.
Service Area of Project Check One)	Region X Town School District	Central Business Di Neighborhood Street Other Area	strict
Project Name: Hudson Fire Deposerription: This CIP project project project project and square feet of living space at Rational for Project: (Check those that apply: elaborate below.)	partment — Burns Hill Fire Station oposes to renovate and improve the Burnd renovate the existing 781 square feet  Removes imminent threat to public has a conditions or Responds to federal or state requiren Limproves the quality of existing services added capacity to serve grown and the state of the sta	health or safety deficiencies ment to implement vices owth	ould accomplish the addition of approximate
Cost Estimate: (Itemize as necessary)  Cap  Dollar Amou  Planni  Real  Site I  Cons  Furni  Surce of Funding:  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue		Impact on Operation  Doll Pl	
Current revenue Bonds		Hudson Fire Department (Department/Agency)	



#### TOWN OF HUDSON

#### FIRE DEPARTMENT

39 FERRY STREET, HUDSON, NEW HAMPSHIRE 03051



Emergency Business Fax 911 603-886-6021 603-594-1164 Robert M. Buxton Chief of Department

TO: John Cashell

Town Planner

FR: Robert M. Buxton

Fire Chief

hot

DT:

April 8, 2014

RE:

Capital Improvement Project #2 – Burns Hill Fire Station

The second project the Fire Department is requesting that the Planning Board support is the renovation/addition to the Burns Hill Fire Station.

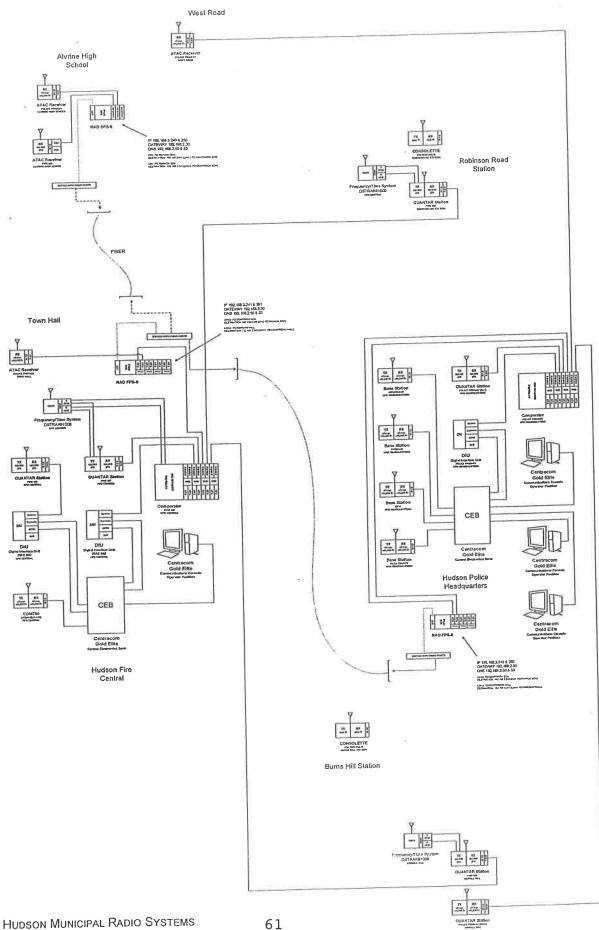
In November of 2001 the Fire Department started to staff the Burns Hill Station on a twenty-four hour basis. Prior to this, the facility was a sub-station that was staffed by Call Fire Fighters, not full-time personnel. During the expansion of the Fire Department in 2001 this facility did not change. Currently, we have three members who are operating in approximately 781 square feet. We are proposing the renovation of the current space with the addition of 1800 square feet. This additional space would be utilized for several different functions including training, protective clothing storage, physical fitness, and updating the mechanical, electrical and plumbing equipment.

The Fire Department understands that there is potential development inclusive with the proposed bypass. We feel that this project maybe impacted by the bypass and may require that we consider the relocation of this facility.

#### Estimated Cost for this project is: \$848,592

The Fire Department approached this project from a planning perspective. As you are aware, when we begin to look at the capital inventory of the town we can certainly identify several projects. We understand that our needs will be balanced out against the needs of other departments in town and look forward to your review. We believe this list of projects highlight the capital needs of the Fire Department. We look forward to reviewing the proposed projects with you so we can submit our proposals to the planning board for review.

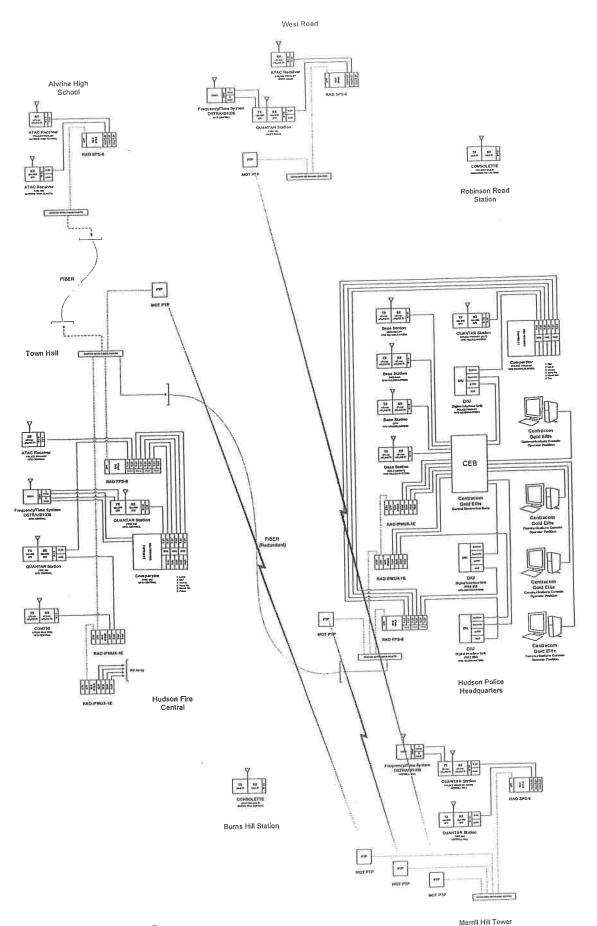
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Check One)    X Town School District   X Town	current radio infrastructure for the Town of Hudson.  public health or safety tions or deficiencies requirement to implement ting services erve growth towsts nic development
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\frac{5}{5}\)  Planning/feasibility analysis  Architecture & engineering fees  Real estate acquisition  Site Preparation  Construction Furnishing & equipment  Yehicles & Capital Equipment  \$612,938 Total Project cost estimate  Source of Funding:  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$612,938	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually  Form Prepared By:    Cost



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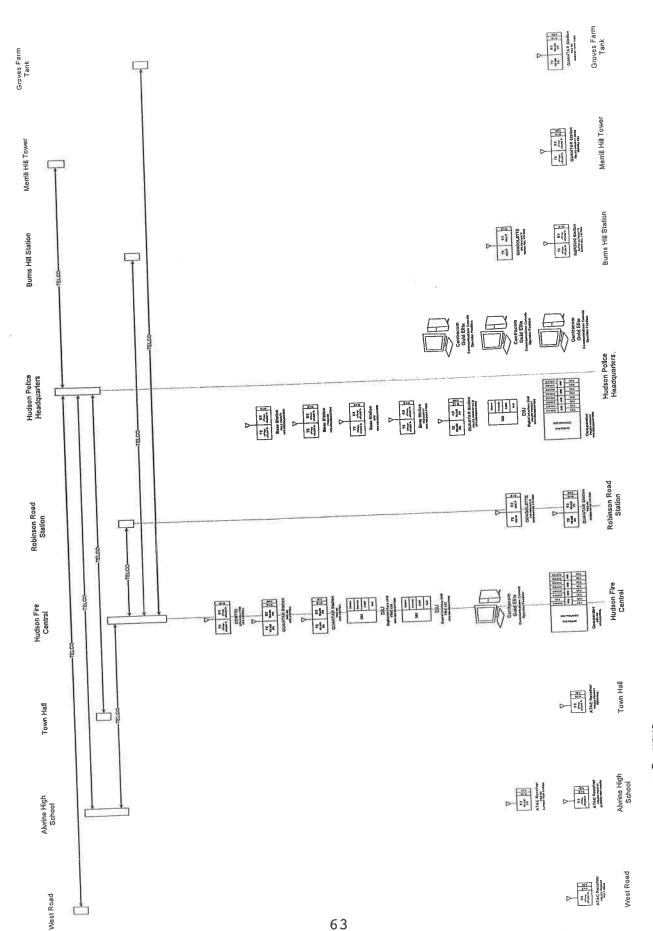
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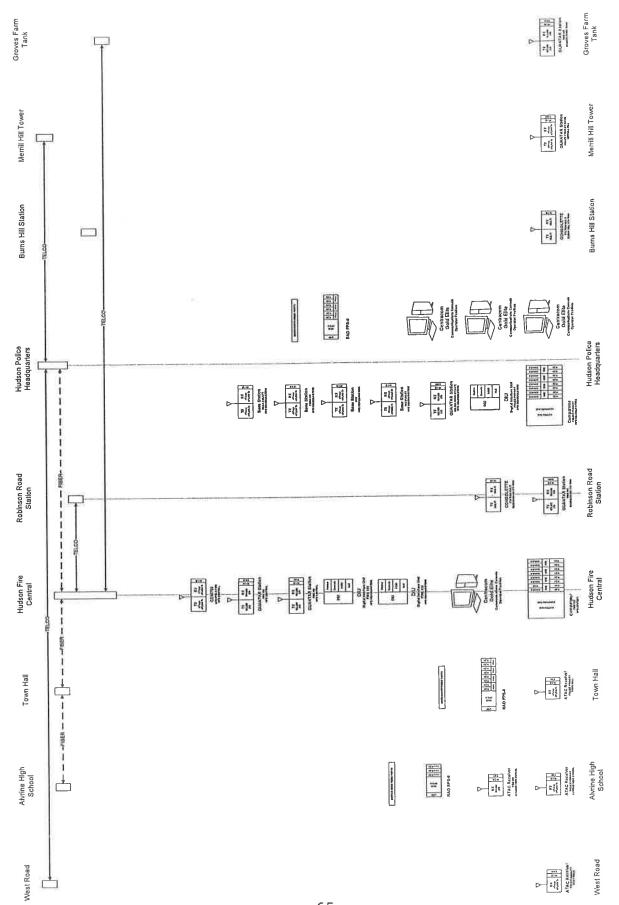


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#### Hudson Police Department

**FY2016 CIP** 

Police Facility Expansion

Created by Susan Fiorenza for FY2007 CIP 4/10/2014

TABLE 3: LIST OF P	ROJECTS	UBMITTE	D FOR RE	VIEW IN	TABLE 3: LIST OF PROJECTS SUBMITTED FOR REVIEW IN CAPITAL IMPROVEMENT PROGRAM	PROGRAM	
or Positor or Poninment	Dent.	Dept. Priority Rank	Proposed Program Year	Total Cost	Project Notes	Priority Class or Point Score	
Description of Froject of Equipment	POLICE	*	2016	3.5 MILLION	Building a 2-story 8,792 square foot addition.		
				٠			

Primary effect of project (Check One)		TABI CAPITAL IMPROVE		300
Primary effect of project   Replace or repair existing facilities or equipment   Repair existing facilities or repair existing facilities or equipment   Repair existing facilities or	Department: Hudson Police Department			FY 2018
Removes imminent threat to public health or safety	Ype of Project Check One)  Primary ef Repli Impr	fect of project is to: ace or repair existing facilities ove or repair existing facilities ad capacity of existing service	or equipment or equipment level facility	
Rational for Project: (Check those that apply: Laborate below.)  Removes imminent threat to public health or safety  X. Alleviates substandard conditions or deficiencies  X. Responds to federal or state requirement to implement  X. Improves the quality of existing services  X. Provides added capacity to serve growth  Reduces long term operating osts  Provides incentive to economic development  Eligible for matching funds available for limited time    Cost Estimate: (Itemize as necessary)    Capital Costs	Check One) X Tow	n ol District	Neighborhood Street	istrict
A Check those that apply:		ansion		
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\s^2\$)  \$ Planning/feasibility analysis \$ Architecture & engineering fees \$ Read estate acquisition \$ Site Preparation \$ Furnishing & equipment \$ Vehicles & Capital Equipment \$ X includes most of above @ \$382.68/sq.ft \$ \$ \$3,433,305.00 Total Project cost estimate  Source of Funding: Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal  Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually  Form Prepared By:  (Signature)  Chief of Police  (Signature)	Check those that apply:  Elaborate below.)  X Allevia: X Respon X Improv. X Provide Reduces	tes substandard conditions or did to federal or state requirements the quality of existing services added capacity to serve grow to long term operating costs as incentive to economic developments.	deficiencies ent to implement ces wth	
Cost Estimate.  (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\sigmass)  Planning/feasibility analysis  Architecture & engineering fees  Architecture & engineering fees  Real estate acquisition  Site Preparation  Construction  Furnishing & equipment  Yehicles & Capital Equipment  X includes most of above @ \$382.68/sq.ft  Surce of Funding:  Source of Funding:  AMOUNT  Form Prepared By:  Chief of Police  (Signature)  Chair Board of Library Trustee	Narrative Justification: SEE ATTACHE	CD		
Impact fee accountlimited funds will be available_ Current revenue Bonds Total project cost _\$3,433,305.00	Capital Costs  Dollar Amount (in current planning/feasibil and pla	ity analysis ngineering fees sition  nipment tal Equipment Tabove @ \$382.68/sq.ft  ject cost estimate	Form Prepared By:  (Signature)  Approved by  Hills Memorial Librar	Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs lar Cost of Impacts if know Plus \$ annually Innus \$ annually  Chief of Police  Chair Board of Library Trustees

#### **HUDSON POLICE DEPARTMENT FACILITY EXPANSION** FY 2016

#### Preface:

I have tried several times over recent years to get an approximate cost per foot from people in this field and have not been able to get a return phone call. This is probably because of time wasted by the experts who realize it isn't worth their time to call and then be involved in a conversation in which there is no compensation for. If the CIP committee were to provide a budget line that provided money to pay consultants a more detailed report would probably be provided. Until such time, this report is all we are able to provide.

This report is being provided without the advice of experts. The CIP committee needs to keep in mind the following when reviewing this report:

- (1) the below costs are for brand new buildings, as opposed to additions;
- (2) add that there are also floor area perimeter multipliers not taken into account;
- (3) I am neither a builder nor a cost estimator and only a local company or local individual experienced in cost estimation with appropriate drawings etc. would be able to give an accurate
- (4) I will attempt to highlight my thoughts on where this expansion could go. I have not taken into consideration setbacks, etc.

The former CIP recommendations were based upon the needs and vision of the Chief of Police at that time. Just as that report was provided for me to use as a guide to help plan for the future, this updated report will provide information for future leaders of the police department. It should be used as a reference point for the specific time the document was created. Adjustments will need to be made as predicated at that time and need.

#### GOAL:

To construct a two-story addition for a total of 8,972 square foot expansion to the existing police facility, to accommodate the needs of the community in fiscal year 2016.

#### **DESCRIPTION OF EXPANSION:**

The addition would start between the window of the chief's office and the first window as you approach the detective windows. An expansion would move south off this wall by 33 feet toward Constitution Drive. It would then head west and extend into the employee parking lot for a total of 68 feet (Break down: 30 feet along current wall and 38 feet across grass/sidewalk/parking lot). It would then turn north toward the employee entrance for a total a distance of 92 feet and ending just before the jog.

Additional money would be needed to help deal with the roof lines.

#### **BACKGROUND:**

The Hudson Police Department is presently housed in a 14,200 square foot facility located on Constitution Drive. The current facility was designed by Kaestle-Boos Associates Inc. around 1993. It was initially designed as a 25,000 square foot facility, costing approximately \$3 million dollars. That facility was estimated to accommodate the police department's needs for at least 20-25 years.

The plan was later reduced to an 18,000 square foot facility. Through further cuts by the Board of Selectmen at that time, it was reduced to a 14,200 square foot facility. The cost at that time was \$1.5 million, which was accepted by the voters in 1994. It was estimated by Kaestle-Boos that the facility would accommodate our needs for the next 10-15 years.

In years 2006 we started outgrowing our facility. Interestingly enough, this is the time frame Kaestle-Boos said we would outgrow our facility. Between 2006 and 2012 the Police Department has made a number of significant changes within the building to accommodate the growth. Some of the changes were to the dispatch, records, services, and prosecution divisions. These changes caused us to eliminate a small meeting/conference room and our only two large storage closets.

In 2008, Retired Chief Gendron consulted with Kaestle-Boos Architects. It was determined that the Hudson Police Department should consider a 12,000 square foot expansion to the existing facility. The addition and/or expansion of existing areas were as follows:

Indoor Firing Range
Detectives/Narcotics
Legal Division
Evidence Room
Records Division
2 Bay Garage
Operations Bureau
Additional Jail Cells

Information Support Systems
Locker Rooms
Report Writing Stations
Separate Juvenile Lock Up
Communications Division
Roll Call Area
Storage
Special Operations Briefing Room

#### Areas Eliminated/Delayed:

Based upon some of the initiatives we have undertaken I believe some the above mentioned areas could be eliminated/delayed in being expanded. They are listed below with a more detailed explanation to follow:

Evidence Room
Operations Bureau
Special Operations Briefing Room
Information Support Systems

2 Bay Garage Additional Jail Cells Indoor Firing Range Report Writing Stations

<u>Evidence Room:</u> Dramatic changes have occurred in this area over the last three years. We added lockable storage cages for weapons and items of high value. Those changes have resulted in a space that now has room for more storage. Additionally, a system has been put in place to ensure that evidence will be removed in a systemic way as soon as legally possible.

Returning evidence promptly after the disposition of cases will continue to keep available space for items as they come in.

Operations Bureau: I am not sure of the specificity of this distinction. The Operations Commander has a sufficient size office.

<u>Special Operations Briefing Room:</u> There is not enough frequency to justify this type of specialized room. We have the Ann Seabury Community Room that can be utilized for special briefings. This room allows for as many as eighty people and it has the necessary equipment for presentations that need to be made to illustrate the situation.

<u>Information Support Systems:</u> As technology advances some equipment has been made smaller. If and when the communications division undergoes an expansion, this could absorb the improvement of our computer server room by changing some of the walls in the current facility.

2 Bay Garage: We currently have a 2 bay sally port. The sally port is not big enough to fit an ambulance in. I do not believe there is a frequency to warrant an expansion to accommodate an ambulance. I do believe there is a need to expand the sally port furthest away from the building for a couple reasons. The first would be to allow us to store more vehicle maintenance equipment such as tire, windshield washer fluid, and etc. The height of the entrance should be increased to accommodate the crime scene truck. This would slow down the aging/appearance of the vehicle for more years to come. Another reason for the increase width would be to allow the crime scene team enough space to work in when processing vehicles.

An alternative to this would be to pour a concrete pad and purchase a large metal out building. This may be a cheaper alternative to reconstructing the sally port. Heat would have to be provided to this building as well as a video security system.

Additional Jail Cells: We have never had all the jail cells filled with arrested individuals. Consideration should be given to providing a cell designed for handicapped people. We do have available options to address handicapped people such as a hand summons or using the Valley Street Jail in Manchester, NH.

Indoor Firing Range: Although it is not an exact enhancement we have purchased a firing range simulator through a grant. This allows us to provide additional training to officers regardless of weather conditions. Again the simulator helps with some aspects of shooting but does not fully replicate actual time firing real rounds. We do have access to indoor ranges on occasion through partnerships we have formed with other agencies such as the Nashua and Manchester Police Departments.

Report Writing Room: We were able to build a report writing room by eliminating a large storage closet. There are two stations available for officers to sit down and access computers. Storage space was added higher up on the walls by building shelves. Other items that were kept in the room were moved to other parts of the building.

# Newer Perspective:

Just as I was provided with a road map for the future I do not believe that all of the above suggestions are necessary at this time. Some would be nice to have and may make sense if

solving all needs at once. Some of the interior changes have allowed us to delay some of the areas of concern above. I would suggest a two phase project.

## Phase 1:

Detective Division Roll Call Area Locker Rooms Legal Division Storage

# Detective Division, Legal Division, and Roll Call Room:

These areas are aligned along the south west side of the building. The end wall can be blown out toward the employee parking lot. The Detective Division can also be expanded toward Constitution Drive. The expansion in this area will have a synergistic benefit to the problems concerning the locker rooms and storage.

<u>Detective Division:</u> This area currently contains four detective cubicles, a sergeants office, interview room, and a counter top with additional workstations. The workstations were put in due to the natural growth of the department, technology, and trends in crime.

Increasing the square footage of this area will provide better workstations for the changes that have taken place. It would also be important to have enough space to insert a round table that could be utilized as a meeting space. This would allow detectives to share and consult with the team their cases.

<u>Legal Division:</u> This improvement will allow the division to all be in one place. Currently, the division is broken up. The victim-witness advocate is in one small office, the full-time and part-time legal clerk are in the records division, the two prosecutors are in a separate office situated between the detective division and roll call room. Expanding this area would put the five member legal team in one area. This would allow for better filing, less transporting of files, and better communication between the team. This will create more efficiency in this division.

By placing everyone together, this would vacate the current office used by the victim-witness advocate. This office could now be used by the information manager who supervises both the records and communications divisions. For the times the victim-witness advocate needs a private place to meet with victims, Information Manager could leave the office and spend time in either communications or records.

Roll-Call Room: This area needs more expansion to accommodate the amount of people that are in attendance. As we have grown we needed to add more mailboxes for the officers and sitting area to adequately prepare the officers before they hit the road. On a regular basis we have as many as ten to fifteen people in this room. This is due to the overlap in shifts, detectives, legal and administrative personnel all participating in roll call.

Locker Rooms: One of the synergistic benefits of this expansion may create opportunities to create a locker room to meet the needs of the female employees and the Special Operations Unit (SWAT Team). There are not enough lockers to meet the needs of the female personnel. In addition there are not enough lockers for any more male employees. As the department grows there is no more space add new lockers. The current female locker room would not go to waste. Instead the wall that separates the male locker room from the female locker room could

be modified to add a doorway. This solves the problems of creating more space for the male personnel.

The members of the SOU are currently forced to store some of their equipment in the armory and their personal vehicles. Having to use their personal vehicles is not appropriate. Using the armory to store their bulky equipment is a terrible situation for a tactical unit. Adding a locker room designed for the SOU members would improve the conditions we currently have. This is not a new idea. Newer build or renovated departments such as Nashua, Manchester, and Londonderry, have all made these adjustments to meet the needs of an important unit.

<u>Storage:</u> As these areas are being designed opportunities to create either pockets of storage space or one larger room/closet for storage should be sought after.

## Phase 2:

Communications Division: This area was redesigned in 2006. Three work stations were put in. With some minor changes one more station could probably be added for those rare times when there is a large scale emergency. This fourth station would allow for the supervisor to be present and make real time observations to the performance of the communications division.

If this area is going to be expanded considerations should be given to adding an office for a supervisor. If square footage was going to be added to this area there are a couple of things to keep in mind. The first would be to determine if an office needed to be created for the Information Manager. It may not if this need was addressed in Phase 1. If the increase in square footage needed was minor then building out into the current lobby would be one suggestion. At times the lobby is full of people and the space is needed. The current lobby also provides a very professional appearance to the department. However, it may be possible to reduce this area by a few feet in depth in order to provide more space for the server room or creating a secondary space for server equipment. The other way to expand the communications room may be to absorb some of the space in the community room. It is important to keep in mind that there are dozen or so times a year where every square foot of the community room is needed.

<u>Cell Area:</u> If a larger scale improvement was being made to the communications room it may be prudent to consider adding a jail cell to accommodate a handicapped person. This would allow us to be ADA compliant.

# PROJECTED COST:

I never heard back from Kaestle-Boos Associates, Inc who build our original building. I was able to obtain some information kindly provided by the Town's Assessor who obtained reference material from Marshall & Swift- Marshall Valuation Service; <a href="http://www.marshallswift.com/">http://www.marshallswift.com/</a>. The below Section 15 Page 33, November 2013 – Calculator Method – Police Stations – Code 489 had the following information:

Class A-B construction (as the current police station is graded/constructed as); Good quality rating; \$293.63 per SF –base cost; plus extreme climate HVAC adj. - \$18.10 per SF; plus

sprinkler wet system - \$5.82 per SF; rolled up cost of \$317.55 times current cost multiplier of 1.03 times local multiplier of 1.17 = est. cost of \$382.68 per SF. This total is \$3,433,305.00.

(This does not include architect fees, site preparation and after building suite alterationslandscaping, nor furniture costs nor general contingency reserves nor any potential story height multiplier, nor any costs for ledge removal etc).

# JUSTIFICATION:

The adequacy, quality and appearance of the police facility from which your police department operates, have a great impact on the performance of the department as a whole. For example, attractive, functional, clean and well designed quarters contribute substantially to the morale and resultant productivity of the agency, as well as to its public image, dignity and prestige. Most citizens have little contact with the police and often, therefore, make judgments, which are at least partially based upon the aspect of police facilities. It follows then, that a good image of the department must 'be maintained not only by the proper department of the individual officer, but also by the appearance of his/her physical surroundings. The community should recognize the need for additional space to the current building if it is to receive the most effective and productive service as possible.

# Municipal Utility Committee

**FY2016 CIP** 

# FY2016 Sewer and Water Utility CIP Projects

TABLE 3: LIST OF P	FY20 ROJECTS SUB	16 WATE	FOR REV	FY2016 WATER UTILITY CIP PROJECTS S SUBMITTED FOR REVIEW IN CAPITAL	FY2016 WATER UTILITY CIP PROJECTS TABLE 3: LIST OF PROJECTS SUBMITTED FOR REVIEW IN CAPITAL IMPROVEMENT PROGRAM	RAM
Description of Project or Equipment	Dept.	Dept. Priority Rank	Proposed Program Year	Total Cost	Project Notes	Priority Class or Point Score
Windham Rd. Booster Station	Water Utility	10	2016	\$321,000		
1 - 2MGD Storage - Barretts Hill	Water Utility	1A	2017	\$2,494,000		
5,200 L.F. 12" Water Main Barretts Hill Rd.	Water Utility	18	2016	\$1,110,000		
Gordon St. Tank Paint Exterior w/misc.	Water Utility	2	2017	\$277,000		
Gordon St. Tank - Paint Interior	Water Utility	ω	2017	\$205,000		
3,250 L.F. 16" Water Transmission line Lowell Rd. from Birch to Central	Water Utility	4	2018	\$767,000		
1,100 L.F.12" Water transmission line, Sagamore Park Dr.	Water Utility	5	2018	\$266,000		
1,000 L.F. 16" Water Transmission Line Ferry St.	Water Utility	o	2018	\$774,000		
4,500 L.F. 12" Water Transmission Line	Water Utility	7	2018	\$1,500,000		

	TAI CAPITAL IMPROV	BLE 2	PROGRAM	
				FY 2016
epartment: Water Utility	Department Priority:	1 of 9	Projects	A SHEET STATE OF THE SHEET STATE
Check One) Windham Road Booster Station	ry effect of project is to: Replace or repair existing facilitie Improve or repair existing facilitie Expand capacity of existing servi Provide new facility or service co	ce level fac	Henr	ss District
Check One)	Region Town School District District		Neighborhood Street Other Area	
Project Name: Upgrade Windham Description: Per the Water Utility Discomeet future demands and meet Nimprove water service to the Windham storage tank.	Stripittion pagem (bages o	0), substation time in the second sec	ntial improve for the Barret , this booster	ements are necessary to upgrade this station ts Hill storage tank to be constructed, and ye station will be used to fill the Barretts Hill
Check those that apply:  Elaborate below.)   X Re X Int X Pr X Re Pr El	moves imminent threat to public leviates substandard conditions of sponds to federal or state require proves the quality of existing ser- ovides added capacity to serve graduces long term operating costs ovides incentive to economic devigible for matching funds available tep in making necessary improve	r deficience ment to improices owth relopment le for limite	ed time	vice capacity to the Windham Road and Marsh Road
Cost Estimate: (Itemize as necessary)  Capital Cost  Dollar Amount (in \$27,500 Planning/s \$44,000 Architects \$ Real-estat \$ Site Prepa \$249,500 Construct \$ Furnishin \$ Vehicles includes in	current \$\forall s)  casibility analysis  are & engineering fees  a-acquisition  tration		Impact on O	Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Source of Funding:  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue	NT	Gary (Signat	ure)	

TA	BLE 2
CAPITAL IMPROV	EMENTS PROGRAM
Department: Water Utility Department Priority:	2 of 9 Projects FY 2017
Type of Project (Check One) 1.2 MGD Storage Barretts Hill Rd    Primary effect of project is to:   Replace or repair existing facilities     X   Improve or repair existing facilities     X   Expand capacity of existing service capacity or service capacity     Primary effect of project is to:   Replace or repair existing facilities     X   Expand capacity of existing service capacity     Primary effect of project is to:   Replace or repair existing facilities     X   Expand capacity of existing service     Primary effect of project is to:   Note that the primary effect o	ies or equipment ice level facility
Region   X Town   School District   District	Central Business District Neighborhood Street Other Area
Project Name: 1.2 MGD Storage Barretts Hill Rd. and Marsh Road hi Description:	igh service area.
Rational for Project: (Check those that apply: elaborate below.)  Removes imminent threat to public h  X. Alleviates substandard conditions or X. Responds to federal or state requiren X. Improves the quality of existing serv X. Provides added capacity to serve gro X. Reduces long term operating osts Provides incentive to economic deve Eligible for matching funds available  Narrative Justification: This is the second of three steps in the improvement need to improve fire protection and water service to the Windham Road& M.  Distribution State Study (1975, 4.6)	deficiencies nent to implement vices owth  clopment e for limited time  Average for the Windham Road & Marsh Road high service areas. There is
Distribution System Study (pgs. 4-6).	D. and Morde
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\sigma_s\$)  \$\frac{33,000}{\$33,000} \text{ Planning/feasibility analysis} \text{ Architecture & engineering fees} \text{ Real estate acquisition} \text{ Site Preparation} \text{ Site Preparation} \text{ Site Preparation} \text{ Furnishing & equipment} \text{ Furnishing & equipment} \text{ includes most of above @ \$325/sq.ft} \text{ Site Project cost estimate} \text{ Site Project cost estimate} \text{ Site Preparation}  Site Prepar	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Source of Funding: AMOUNT  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$1,994,000	Form Prepared By:  Gary Webster (Signature)  Approved by  Department/Agency

TAB CAPITAL IMPROVE	
Department: Water Utility Department Priority:	77,0016
Primary effect of project is to:  Check One)  5,200 LF - 12" Water Main  Barretts Hill Rd  Primary effect of project is to:  Replace or repair existing facilities  X Improve or repair existing facilities  X Expand capacity of existing service  Provide new facility or service cap	s or equipment es or equipment the level facility
Service Area of Project  (Check One)  Region  X Town  School District  District  Project Name: 5,200 LF 12" water main connecting the Barretts Hi	Central Business District Neighborhood Street Other Area  Other Area  Other Area  Other Area  Other Area
Rational for Project: (Check those that apply: elaborate below.)  Removes imminent threat to public he x Alleviates substandard conditions or x Responds to federal or state requirem x Improves the quality of existing serv x Provides added capacity to serve grov x Reduces long term operating osts Provides incentive to economic devel Eligible for matching funds available	ealth or safety deficiencies lent to implement ices wth
Narrative Justification: This is the third and last step in the improvement pris described in the Water Utility Distribution System Study. This project also which is underground, and as such, is a safety concern.  Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\Sigmass)  \$\frac{522,000}{322,000} \text{ Planning/feasibility analysis} \\ \$\frac{110,000}{310,000} \text{ Architecture & engineering fees} \\ \$\frac{8}{3} \text{ Real estate acquisition} \\ \$\frac{978,000}{3978,000} \text{ Construction} \\ \$\frac{978,000}{3978,000} \text{ Construction} \\ \$\frac{1}{3} \text{ Vehicles & Capital Equipment} \\ \$\frac{1}{3} \text{ Vehicles & Capital Equipment} \\ \$\frac{1}{3} \text{ Includes most of above @ \$325/sq.ft} \\ \$\frac{1}{3} \text{ Includes most of above @ \$325/sq.ft} \\ \$\frac{1}{3}  Loan From:	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually  Form Prepared By:  Gary Webster (Signature)  Approved by
Bonds \$1,110,000  Total project cost\$1,110,000	Department/Agency

TAB	BLE 2
CAPITAL IMPROVI	EMENTS PROGRAM
Department: Water Utility Department Priority:	4 of 9 Projects FY 2017
Primary effect of project is to:  Check One)  Gordon Street Water Tank –  Exterior Painting  Primary effect of project is to:  Replace or repair existing facilitie.  X Improve or repair existing facilitie.  Expand capacity of existing service cap.	es or equipment ice level facility
Service Area of Project (Check One)  Region X Town School District District	Central Business District Neighborhood Street Other Area
Project Name: Gordon Street Water Tank - Paint exterior of tank, including Description:	ng minor repairs to same.
Rational for Project:  (Check those that apply: elaborate below.)  Responds to federal or state requirem Improves the quality of existing servent Provides added capacity to serve grown Reduces long term operating costs  Provides incentive to economic deverage Eligible for matching funds available.	deficiencies nent to implement rices with clopment e for limited time
Narrative Justification: Tank is steel and subject to corrosion and must be p storage tanks. Refer to TIC report dated 11-06-06 on file in the Engineer's O.	
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\frac{1}{2}\) \$\frac{11,000}{\$11,000}\$ Planning/feasibility analysis \$\frac{22,000}{\$\$22,000}\$ Architecture & engineering fees \$\frac{1}{2}\] \$\frac{1}{2}\] \$\frac{244,000}{\$\$244,000}\$ Construction \$\frac{1}{2}\] \$\frac{1}{2}	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually  Form Prepared By:  Gary Webster (Signature)  Approved by  Department/Agency
Total project cost\$277,000	

TABL  CAPITAL IMPROVEN	
	57.2017
epartment: Department Priority: 5	or a respective
ype of Project Check One)  Gordon Street Tank - Paint  Primary effect of project is to: Replace or repair existing facilities of x Improve or repair existing facilities Expand capacity of existing service Provide new facility or service capa	level facility
Service Area of Project (Check One)  Region X Town School District District	Central Business District Neighborhood Street Other Area
Project Name: Gordon Street Water Tank – Paint Interior Description:	e
Rational for Project:  (Check those that apply: elaborate below.)  Responds to federal or state requirement improves the quality of existing servi Provides added capacity to serve grow Reduces long term operating costs Provides incentive to economic development.	ent to implement ces with
Narrative Justification: Tank is steel and subject to corrosion and must be water storage tanks. Refer to TIC (report dated) 11-06-06 on file with the Eng	Impact on Operating & Maint. Costs or Personnel Needs
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\sigma\$)  \$\frac{5,500}{5,500} \text{ Planning/feasibility analysis}  \$\frac{\$11,000}{5} \text{ Architecture & engineering fees}  \$\frac{1000}{5} \text{ Real estate acquisition}  \$\frac{1000}{5} \text{ Site Preparation}  \$\frac{1000}{5} \text{ Construction}  \$\frac{1000}{5} \text{ Furnishing & equipment}  \$\frac{1000}{5} \text{ Vehicles & Capital Equipment}  \$\frac{1000}{5} \text{ Construction}  \$\frac{10000}{5} \text{ Construction}  \$\frac{100000}{5} \text{ Construction}  \$1000000000000000000000000000000000000	Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
	Form Prepared By:
Source of Funding: Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$205,000	(Signature)  Approved by  Department/Agency
81	

requipment requipment level facility ity  Central Business District Neighborhood Street X Waste Service Areas  oad from Birch Street to Central Street scheduled for 2008  with or safety ficiencies to implement is in  ment or limited time  the "Water Distribution System Study" as another step in upgrading the emergency situations with respect to the water distribution system
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Neighborhood Street X Waste Service Areas  oad from Birch Street to Central Street scheduled for 2008  alth or safety ficiencies to implement s  oment or limited time  the "Water Distribution System Study" as another step in upgrading the emergency situations with respect to the water distribution system
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Impact on Operating & Maint. Costs or Personnel Needs
Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Form Prepared By:  (Signature)  Approved by  Department/Agency
7

		BLE 2 EMENTS PROGRAM	
WI A WASHING		Priority: 7 of 9 Projects FY 2018	**************************************
Type of Project Check One) ,100 L.F. 12" Water Transmission Line Sagamore Park Road	Primary effect of project is to:  Replace or repair existing facilitie  X Improve or repair existing facilitie  X Expand capacity of existing service repair existing service ca	es or equipment es or equipment ce level facility	
Service Area of Project Check One)	Region  X Town School District District	Central Business District Neighborhood Street Waste Service Areas	
Project Name: 1,100 L.F. 1 Description:	12", Water transmission line, Sagar	nore Park Road	
Rational for Project: (Check those that apply: elaborate below.)  Narrative Justification: This to	Removes imminent threat to public law Alleviates substandard conditions or Responds to federal or state requirer Improves the quality of existing ser Provides added capacity to serve grows Reduces long term operating costs Provides incentive to economic deveragement of Eligible for matching funds available ransmission line upgrade is recommended redundancy and decreasing the potential	rent to implement vices owth	upgrading the
Cost Estimate: (Itemize as necessary)  Cap  Dollar Amo  \$ 5,500 Pl  \$22,000 Ar  \$ R  \$ Si  \$238,500 C  \$ Fr  \$ Vet  \$  \$ Si  \$ Vet  \$  \$ Si  \$ Vet  \$  \$ Vet  \$  \$ Si  \$ Vet  \$  \$  \$ Vet  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  Donation/bequest/private  User fees & charges  Capital reserve withdrawal  \$  \$  \$  \$  \$	inital Costs  cont (in current \$s)  anning/feasibility analysis  chitecture & engineering fees  teal estate acquisition  ite Preparation  construction  currishing & equipment  nicles & Capital Equipment  cotal Project cost estimate  AMOUNT  66,000	Impact on Operating & Maint, Costs or Personn  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually  Form Prepared By:  (Signature)  Approved by  Department/Agency	

	BLE 2
	EMENTS PROGRAM
Department: Water Utility Department Priority:	8 of 9 Projects FY 2018
Type of Project (Check One) 1,000 LF 16" Transmission Line Ferry Street    Primary effect of project is to:   Replace or repair existing facilities     X   Improve or repair existing facilities     X   Expand capacity of existing servents     Provide new facility or service capacity of existing servents	ies or equipment ice level facility
Service Area of Project (Check One)  Region X Town School District District	Central Business District Neighborhood Street Other Area
Project Name: 16" transmission line on Ferry St., between Webs Description: 1,000 LF 16" diameter ductile iron pipe with fittings	ter St. & Library St.
Rational for Project: (Check those that apply: elaborate below.)  Removes imminent threat to public heart apply: Alleviates substandard conditions or Responds to federal or state required interpretation in the provides added capacity to serve growing added capacity to serve growing incentive to economic development.  Removes imminent threat to public heart apply: Alleviates substandard conditions or Responds to federal or state required in the provides added capacity to serve growing incentive to economic development.  Removes imminent threat to public heart apply:  Removes imminent threat to public	e deficiencies ment to implement vices owth clopment e for limited time
Narrative Justification: Continuation of water transmission improveme	
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\frac{1}{2}\text{s}\) \$\frac{11,000}{511,000}\$ Planning/feasibility analysis \$\frac{71,500}{2}\$ Architecture & engineering fees \$\frac{1}{2}\$ Real estate acquisition \$\frac{1}{2}\$ Site Preparation \$\frac{1}{2}\$ Construction \$\frac{1}{2}\$ Furnishing & equipment \$\frac{1}{2}\$ Vehicles & Capital Equipment \$\frac{1}{2}\$ includes most of above @ \$325/sq.ft \$\frac{1}{2}\$	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$annually  Minus \$annually
Source of Funding: AMOUNT Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$774,000	Form Prepared By:  Gary Webster (Signature)  Approved by  Department/Agency

	TABL		
	CAPITAL IMPROVE	MENTS PROGRAM	777.0010
Department: Water Utility	Department Priority: 9	of 9 Projects	FY 2018
Type of Project Check One) ,900 LF 12" Parallel Transmission Line on Lowell Rd.	Primary effect of project is to:  Replace or repair existing facilities  X Improve or repair existing facilities  X Expand capacity of existing exrice  Provide new facility or service capa	e level facility	District
Service Area of Project Check One)	Region X Town School District District	Neighborhood Street Other Area	District
Project Name: 4,900 LF 12" Par Description: 4,900 LF 12" dian	allel Transmission Line on Lowell Rd. neter ductile iron pipe with fittings.  Removes imminent threat to public he	REHEIGHGIGS	
(Check those that apply: elaborate below.)	Alleviates substandard conditions or of Responds to federal or state requirem     Improves the quality of existing serve Provides added capacity to serve grow Reduces long term operating osts     Provides incentive to economic devel     Eligible for matching funds available	opment for limited time	Natar Distribution System Study".
Narrative Justification: Continua	tion of water transmission improvemen	its recommended in the	rating & Maint. Costs or Personnel Needs
Dollar Amor \$16,500 P \$110,000 S \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	ital Costs  Int (in current \$\mathbb{S}\) Inning/feasibility analysis Architecture & engineering fees Real estate acquisition Site Preparation Construction Furnishing & equipment Vehicles & Capital Equipment includes most of above @ \$325/sq.ft Total Project cost estimate		Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs collar Cost of Impacts if know Plus \$ annually Minus \$ annually
Spurce of Funding:	MOUNT	Form Prepared By:	
Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue	500,000	(Signature)  Approved by  Department/Agency	
Total project cost\$1,	500,000		

# 2014 WATER CIP PROJECTS

NEW CIP PROJECTS

WATER LINE EXTENSION GREELEY ST. TO END LINE AT ALVIRNE HS. 4154 WATER LINE EXTENSION END OLD DERRY RD. TO CHRISTINE DRIVE 7300' OF 12"CL52 INCLUDES 12 FIRE HTDRANTS INCLUDES 24 FIRE HYDRANTS OF 12" CL.52 27 \$275,000.00 \$475,000.00 47 350 Coust 26 4 25

52085

19067

100 International Drive, Suite 152 Portsmouth, NH 03801 tel: 603-431-3937 fax: 603-433-4358 www.westonandsampson.com

planning, permitting. design, construction, operation, maintenance, designibulid, & equipment.



Town of Hudson, New Hampshire Project No. 2120728

February 15, 2013

Mr. Patrick R. Colburn, P.E. **Town Engineer** Town of Hudson 12 School Street Hudson, New Hampshire 03051

Re:

**Cost of Treatment Investigation** 

Nash Well

Dear Mr. Colburn:

Weston & Sampson has performed a preliminary analysis on the cost to establish the 6-inch diameter bedrock well located on Old Derry Road (referred to as the "Nash Well") as a public water supply. This cost is compared to the cost of purchasing an equivalent amount of water from the City of Nashua/Pennichuck Water Works (PWW) to meet the Town's water needs.

### Previous Work

On February 1, 2012, a step rate pumping test was conducted on the Nash Well to determine potential well yield. The test included two 60-minute steps conducted at rates of 17 and 42 gallons per minute (gpm) followed by a final step conducted at a rate of 75 gpm for two hours. The Nash well step rate test confirmed the Old Derry Road area is a high water yield location for a bedrock source and preliminary test results indicated that a safe yield between 140 and 250 gpm could be expected from the Nash Well. The pumping test effort determined the following:

- ✓ A longer duration pump test is required to determine the actual well safe yield.
- ✓ Further consideration of the well is warranted due to the potential of a 140 to 250 gpm yield.
- ✓ The well will require treatment to lower the arsenic level below 0.01 mg/l to meet the primary drinking water standards.
- ✓ The potential well yield may be sufficient to justify the cost of treatment and pumping costs.

It was further recommended that the relative cost to develop the Nash well and treat the water should be assessed and evaluated against the current and future cost of purchasing an equivalent amount of water from Pennichuck Water Works (PWW).

# Nash Well Treatment

The existing Nash well is a 6-inch bedrock well which cannot support a pump that can deliver flows between 150 to 250 gpm at the total dynamic head required to meet system pressures. Due to this, we

Mr. Patrick R. Colburn, P.E. February 15, 2013 Page 2 of 5

recommend the existing well be reamed to an 8-inch diameter. The cost to ream the well will be lower than drilling a new, adjacent bedrock well of 8- or 10-inch diameter sufficient for a public water supply. The below observations and assumptions were used to determine the cost to develop the Nash Well, construct an arsenic and iron removal treatment system, and connect the supply to the existing distribution system. We also evaluated costs to operate and maintain the system for a 30 year life cycle.

The existing distribution system extends to the northwestern corner of the Nash property as 8-inch ductile iron water main. Constructing a water main to the existing system will require approximately 650 feet of new water main from the well site to Old Derry Road.

The treatment system will utilize greensand-plus media within pressure filtration vessels to reduce raw water arsenic levels (approximately 16 ug/L) to below regulatory levels. Arsenic is an EPA primary drinking water standard constituent requiring treatment if the running annual average of the water source exceeds 10 ug/L. Iron, a secondary standard constituent, would also be reduced through greensand plus treatment. Raw water iron was measured at approximately 1.3 mg/L which is above the secondary standard of 0.3 mg/L.

An elevated level of aluminum was detected when the Nash Well was sampled during the step rate pump test. The rock type identified on the bedrock geology maps for the Nash well area is both the Berwick Formation (SOb) and a 2-mica granite of the New Hampshire Plutonic Series. The mica's (biotite and muscovite) are high in aluminum as well as feldspars. Prior to the pump test, the Nash well had been sitting dormant for an extended period. Under those conditions, the feldspars are suspected to have chemically weathered to clay minerals (hydrous aluminum phyllosilicates) which may have contributed to the high aluminum levels detected in the well. Based on our past experience, it is assumed that under frequent operation the Nash Well would not continue to exhibit high aluminum levels that require removal via an additional treatment process. Therefore, we have not included the cost of specific treatment to remove aluminum in our evaluation within this letter report.

The pressure filtration treatment system will require vessel cleaning via a backwash cycle. During the backwash process, residuals are produced that require a method of storage and ultimate disposal. It is assumed lagoons would be constructed at the site to store the residuals and allow for thickening and drying. Once a year, the residuals would be removed from the lagoon and disposed.

# Treatment Costs

Since the actual safe yield of the well has not been determined, the cost analysis examines three scenarios in which the well can yield 150, 200 and 250 gpm. This allows the cost effectiveness of developing a new source to be examined at each of the differing flow rates within the expected safe vield range.

All costs presented are the present worth of a water treatment facility, including both the capital construction cost and the operation and maintenance (O&M) cost for a 30 year life of the facility. The capital cost to construct the facility includes the cost of the treatment process, building, water main to connect the facility to the existing distribution system, residuals handling, engineering costs, and contingency.

The O&M costs presented below are the present worth values for the well and treatment facility over a 30 year period. These costs include power consumption by the pump and motor, chemical addition, residuals handling, filter media replacement, and labor required to operate the facility. O&M costs are more variable based on the Nash Well flow rate as increased power consumption is needed to operate a higher flow rate and chemical addition to treat the water is directly correlated to flow. The capital costs to construct the facility and O&M costs at each of the three flow rates are presented below.

Flow Rate (gpm)	Capital Cost	O&M Cost (Present Worth)	Total Cost (Present Worth)
150	\$1,300,000	\$540,000	\$1,840,000
200	\$1,310,000	\$640,000	\$1,950,000
250	\$1,320,000	\$740,000	\$2,060,000

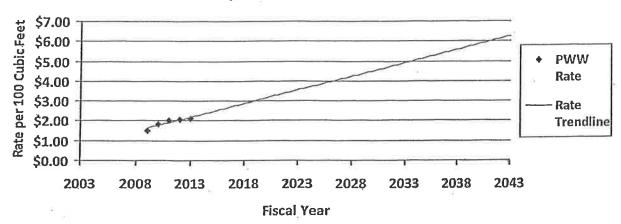
As can be seen in the table above, the capital costs associated with well and treatment construction do not vary widely based on the flow rate from the Nash Well. The capital costs dependent on well yield are subtle differences in treatment vessel size and pump and motor size, whereas the O&M costs can vary more widely based on the volume of water delivered.

# Pennichuck Water Purchase

To assist in meeting the Town's water demand a connection to the PWW system, via a pipeline across the Taylor Falls bridge, is typically opened in April and remains open until November. Based on water usage records from 2003 to 2010, we have assumed water supplied through the Taylor Falls connection occurs annually from approximately April 20 until November 7, which is a period of approximately 200 days. For this analysis the Nash Well is assumed to operate for 20 hours per day for the 200 day period in which the Taylor Falls connection is open. If the Nash Well is operated under the conditions described above, the Town will produce 36, 48, and 60 million gallons a year at a flow of 150, 200, and 250 gpm, respectively. Each gallon of water produced by the Town is one less gallon purchased from PWW. Due to this, it is important to understand the potential cost of future water from PWW and compare that cost to the cost to construct Town-owned water supply. The PWW purchasing rates for the last five fiscal years were plotted and a best fit trend line was applied to project the purchasing rate over the 30 year life of the facility.







The Town currently purchases water from PWW in units of 100 cubic feet (748 gallons). The projected average annual increase in the rate was brought back to a present worth value of \$38.01 per 100 cubic feet unit for the 30 year life of the facility. The present worth factor was multiplied by the volume of water produced by the Nash Well at each flow rate to determine the estimated total present worth of purchasing water from PWW, and can be seen in the table below.

Flow Rate (gpm)	Volume of Water (MG)	PWW Purchase Cost
150	36.18	\$1,838,500
200	48.24	\$2,451,300
250	60.30	\$3,064,200

### Recommendation

The Nash Well yield is unknown at this time since a long duration pump test was not conducted on the well. The ultimate yield of the well will have a bearing on whether the well is cost effective to construct. However, utilizing the table below it can be seen that the development of the Nash Well and construction of a water treatment facility is cost effective when compared to the purchase of water over a 30 year period.

Flow Rate (gpm)	Present Worth Cost . Purchase Water	Present Worth Cost Treatment of Nash Well
150	\$1,838,500	\$1,840,000
200	\$2,451,300	\$1,950,000
250	\$3,064,200	\$2,060,000

As stated above, a longer duration pump test is recommended to determine the actual safe yield of the Nash Well. The well should also be reamed to an 8-inch diameter to allow a pump capable of producing a flow rate of 250 gpm to be installed. Reaming the well is a less costly alternative to drilling a new 8 or 10-inch diameter well adjacent to the existing. If the results of the pumping test confirm a safe yield above 150 gpm, it is recommended to construct a treatment facility and incorporate the Nash well into the Town's water supply.

Please note that the Town will still need to purchase water from PWW to meet system demand. However, the Nash Well is capable of reducing the amount of water purchased from PWW and thereby providing water to the Town at a lower cost than PWW over an assumed the 30 year period utilized during this evaluation.

Thank you for the opportunity to assist the Town in this important issue. Should you have any questions or concerns regarding this matter, please contact us at (603) 431-3937.

Very truly yours,

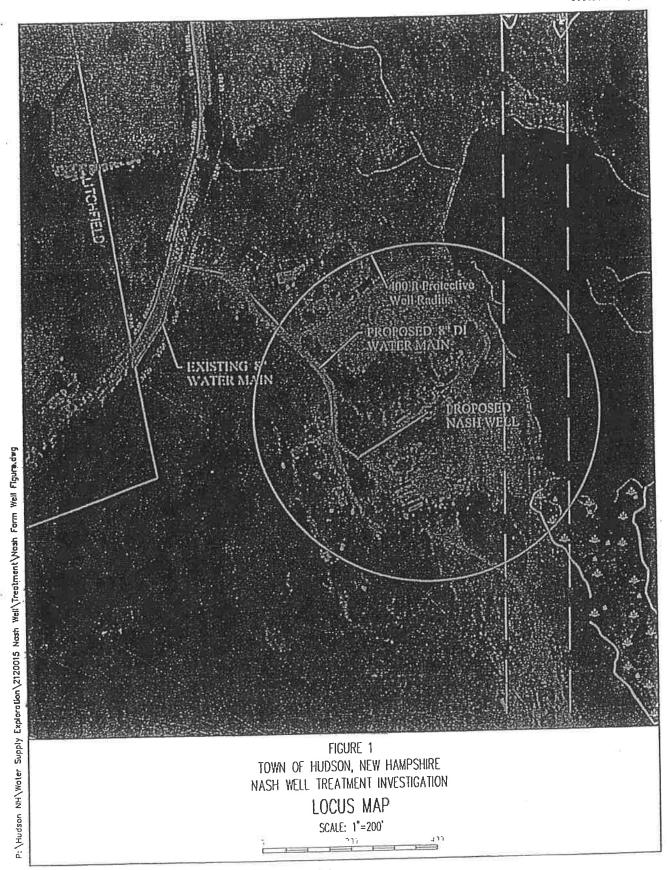
WESTON & SAMPSON ENGINEERS, INC.

Jeffrey W. McClure, P.E.

Project Manager

Attachment: Figure 1 - Nash Well Locus Map

P:\HUDSON NH\WATER SUPPLY EXPLORATION\2120015 NASH WELL\TREATMENT\NASH TREATMENT INVESTIGATION,DOC



# Land Use Division

FY2016 CIP

# COMMUNITY DEVELOPMENT DEPARTMENT

LAND USE DIVISION TABLE 3: LIST OF PROJECTS SUBMITTED FOR REVIEW IN CAPITAL INTROVERSE INC.  Dept. Proposed Priority Program Program Total Cost Project Notes  Description of Project or Equipment Dept. Rank Year Total Cost Project Notes	F PROJECTS: Dept.	Dept. Priority Rank	Proposed Program Year	Total Cost	Project Notes
	l and I lee Div	<u> </u>	2016	\$410,000	NHDOT 80% FUNDING
County Rd Bridge	I and I Isa Div	2	2016	\$345,000	NHDOT 80% FUNDING
Melendy Rd Bridge	raile des dire			_	MBACT EFES & NHDOT FUNDING
Add 2d Lane SB Lowell Rd to Sagamore Bridge Rd WB	Land Use Div.	ω	2017	\$50,000	IMPACT FEES & NIEDO I SONO
Towns of Land Dome St/Bite 102 from Townsee Dr. to Megan Dr.	Land Use Div.	4	2018	\$548,446	\$548,446 IMPACT FEES & NHDOT FUNDING
Continue Ped/blke Lane Delly Orbite: 102 10111 Tomico Di to Budgon Moli	l and I lse Div	ហ	2019	\$241,606	IMPACT FEES & NHDOT FUNDING
Continue Ped/Bike Lane Derry Syrke, 102 Iron Filmips Dr. Continue	I and I Isa Div	o,	2020	\$187,003	\$187,003 IMPACT FEES & NHDOT FUNDING
Continue Sidewalk on 3A/Lowell Rd. from Nottingriam Sq. to Executive Cr.	2	1	2024	\$249 338	IMPACT FEES & NHDOT FUNDING
Continue Sidewalk on 3A/Lowell Rd. from Birch St to Pelham Rd.	Land Use Div.		5057		

TAB CAPITAL IMPROVE	
	FV 2016
Department: Land Use Division Department P	normy: 2 of 3 Projects
Primary effect of project is to:   Check One   Replace or repair existing facilities     X Improve or repair existing facilities     Expand capacity of existing service cap	e level facility
Service Area of Project (Check One)  Region Town School District District	Central Business District Neighborhood x Street Other Area
Project Name: County Road Bridge over First Brook  Description:	
Rational for Project:  (Check those that apply: elaborate below.)  Responds to federal or state requirem Improves the quality of existing sevi Provides added capacity to serve grov Reduces long term operating osts Provides incentive to economic devel x Eligible for matching funds availab	deficiencies ent to implement ices with lopment le for limited time
Narrative Justification: This bridge was originally scheduled for replace unfunded. This bridge is on the "Red List" with NHDOT and should be replaced before the County Road sidewalk is done.	
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\sigma\$)  \$75,000 Planning/feasibility analysis  Architecture & engineering fees  \$_5,500 Real estate acquisition  \$_Site Preparation  \$_292,500 Construction  \$_Furnishing & equipment  \$_Vehicles & Capital Equipment  \$  \$  \$  \$  \$  \$	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Source of Funding: Grant from: NHDOT 80% Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$373,000	(Signature)  Approved by  Department/Agency

	TAB CAPITAL IMPROVE			
Department: Land Use Division		riority: 8 of 3	Projects	FY 2016
Type of Project Check One) Melendy Road Bridge	Primary effect of project is to:  Replace or repair existing facilities  Improve or repair existing facilities  Expand capacity of existing service  Provide new facility or service cap	s or equipment c level facility		
Gervice Area of Project Check One)	Region Town School District District	Central Busing Neighborho  x Street Other Area		2
Project Name: Melendy R Description:	oad Bridge over First Brook			
National for Project: Check those that apply: claborate below.)  Narrative Justification: This unfunded. This bridge is on the	Removes imminent threat to public he x Alleviates substandard conditions or Responds to federal or state requirem Improves the quality of existing savi Provides added capacity to serve grow Reduces long term operating osts Provides incentive to economic devel x Eligible for matching funds availab bridge was originally scheduled for replace. "Red List" with NHDOT and should be	ent to implement ces wth opment te for limited time	ar 2001. No action was	taken and the project remains
Dollar Am \$ 60,000 P \$ A \$ 5,000 F \$ S \$ S \$ S \$ S \$ S	apital Costs  ount (in current \$\sumsets\$)  anning/feasibility analysis  rchitecture & engineering fees  teal estate acquisition  lite Preparation  Construction  Furnishing & equipment  Vehicles & Capital Equipment			el costs nnel I costs
Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account	AMOUNT 76,000 69,000	Form Prepared By:  (Signeture)  Approved by  Department/Agency	SWold	

TAB	
	EMENTS PROGRAM  FY 201
Department, Land OSC Division	of 3 Projects
Type of Project (Check One) Traffic Improvement    Primary effect of project is to:   Replace or repair existing facilities   X   Improve or repair existing facilities   X   Expand capacity of existing serv   X   Provide new facility or service of	es or equipment vice level facility
X Region   X Town   School District   District	X Central Business District Neighborhood X Street Other Area
Project Name: Add 2d Lane to Lowell Rd. SB to Sagamore Bri Description: This project proposes to add a 2d lane on Lowell Rd reconfiguring the WB travel lanes on Wason Rd (at the intersection onto Lowell Rd SB, leading to Sagamore Bridge Rd WB. Land tak Westside of Lowell Rd.	as I awall Pd) so that 2 lanes are provided from said intersection
Rational for Project: (Check those that apply: elaborate below.)  Responds to federal or state requirem X Improves the quality of existing serv Y Provides added capacity to serve gro Reduces long term operating osts X Provides incentive to economic deve Eligible for matching funds available  Narrative Justification: This project is proposed, taking into consideratic Lowell Rd. is so congested that it impacts the quality of air in the vicinity of goods. This road improvement project will also offer the opportunity it town's tax and jobs bases, but also that of the region and state.	cleficiencies ient to implement vices owth elopment e for limited time on that the A.M. and P.M. Peak Hour travel along the subject stretch of
Cost Estimate:  (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$\mathbb{S}\)  \$ Planning/feasibility analysis  \$ 75,000 Architecture & engineering fees  \$ 220,000 Real estate acquisition  \$ Site Preparation  \$ 225,000 Construction  \$ Furnishing & equipment  \$ Vehicles & Capital Equipment	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ Annually  Minus \$ Annually
Source of Funding: AMOUNT Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost \$520,000	Form Prepared By: (Signature)  Approved by  Department/Agency

Project Narrative: Rte 3A/Lowell Rd. Traffic Improvement Project - Add a right-turn lane on Rte. 3A/Lowell Rd. southbound, from Flagstone Drive to the westbound ramp on Sagamore Bridge Rd.

It is envisioned by many residents and principals in the Town of Hudson, NH, that the above-cited proposed traffic improvement project will significantly alleviate the degree of existing traffic congestion occurring during the A.M. and P.M. peak commuter hours along the southbound Rte. 3A/Lowell Rd. corridor. Presently, during said travel times, and especially during the A.M. hours, the associated traffic queues extend more than a half mile along Lowell Rd. southbound and Wason Rd. westbound. The aforementioned traffic is presently restricted to the use of one travel lane onto Sagamore Bridge Rd. westbound, via one southbound right-turn lane on Lowell Rd. Said traffic is primarily destined for Rte. 3 southbound, with the minority of flow going to Rte. 3 northbound and Daniel Webster Highway in Nashua. Again, it is envisioned by many that the construction of said second lane having right-turn capacity on Lowell Rd., southbound from Flagstone Dr. to the westbound on ramp of Sagamore Bridge Rd., will greatly reduce the existing 1/2 mile queues on Lowell Rd. and Wason Rd. Further, said improvement will help to: (i) improve air quality for both impacted roadway corridors, (ii) shorten the travel time for commuters, and (iii) provide more efficient transportation of goods produced in Hudson and within the region as a whole.

# <u>Project Narrative for Phase II - Continue Pedestrian/Bike Lane on NH Rte.</u> 102(Derry Street), from Towhee Drive to Megan Drive

This project is a shovel ready (i.e., fully engineered and designed) sidewalk and bike lane project, which is now designated as Phase II of a previously approved sidewalk improvement project along the eastside of NH Rte. 102 (Derry Street). This present phase specifically calls for the construction of a 5 ft. in-width bituminous concrete sidewalk, vertical granite curbing and a 4 ft. in-width bike lane - all located within the existing ROW of Rte. 102. As planned, this phase, as did Phase I, will run along the eastside of Rte. 102, from Towhee Drive south to Megan Drive, which is a distance of approximately 2000 +/- ft.

Please note, Phase I of this project was completed in its entirety last year (2010), and included: the construction of the aforementioned 5 ft. in-width sidewalk, vertical granite curbing and bike lane. This latter Phase ran from Evergreen Drive south to Towhee Drive – a distance of approximately 2000 ft. Note: at Evergreen Drive the sidewalk and bike lane connected with sidewalks and bike lanes constructed several years earlier on both sides of Rte. 102, from Evergreen Drive to just south of the Alvirne Public High School on Rte. 102.

The primary purpose of Phase II (the subject improvement project) is to continue to enhance the safety of pedestrians and bicyclists travelling along the high-speed/high-volume Rte. 102. A secondary benefit of this project involves a reduction in bus and vehicle trips along Rte. 102, which are associated with residents and students living in proximity to the 2 public schools and public library located along this way.

In conclusion, the community goals and objectives this project supports include: providing a safe and healthful means of alternative (i.e., physical-based) travel, improved air quality, reduction in traffic congestion, together with energy savings. Also of importance to cite, herein, is that the Town of Hudson has been engaged in long-term plans, and actual implementation of, interconnected sidewalks and bike lanes. To date, and over the course of the last 20 years, Hudson has completed the construction of nearly 5 miles of sidewalks and bike lanes, which of note, are presently not all connected to one another. Taking this latter deficiency of connectedness into account, Hudson's most up-to-date sidewalk and bike lane plans call for all of the existing pedestrian and bicyclists routes to be connected, which, when completed, will result in over 7 miles of safe and healthful routes of travel for municipal and regional pedestrians and bicyclists to utilize for both commuting and for pleasure.



# NASHUA REGIONAL PLANNING COMMISSION METROPOLITAN PLANNING ORGANIZATION TRANSPORTATION PROJECT PROPOSAL FORM

DIRECTIONS: Please complete this form electronically by downloading it from the NRPC website and saving it on your computer. It can then be completed, saved and submitted via email to the NRPC for consideration. Please provide as much detail as available and appropriate for the proposed project implementation time frame. Projects proposed for the outer years of the Long Range/Metropolitan Transportation plan will be less developed and fewer details are likely to be available. Projects proposed for implementation in the short range or mid-range should be more developed and consequently have more details available. For example, detailed cost estimates by project phase may not be available for long-range projects, therefore only a total cost estimate is required. If attaching supplemental information, please indicate how it supports the project proposal.

A.	IMPLEMENTATION TIME FRAME: O Long-Range O Mid-Range (2023 - 2040) (2017-2022) (2013-2016)
В.	CONTACT INFORMATION
	Municipality/Applicant: Town of Hudson
	Contact Person: John Cashell Title: Town Planner
	Address: 12 School Street, Hudson, NH 03051
	Phone: (603)886-6005 Email: jcashell@hudsonnh.gov
	<ul> <li>A vicinity map that shows the proposed project location and limits.</li> <li>A project narrative that describes the proposed project's purpose and need, and whether it is building upon a previously implemented project or is a component of a larger project.</li> </ul>
	Project Route #/Road/Location: Rte 102 Derry Road
	Location Description (i.e., between which intersections or facilities):
	Phase II - Continue Pedestrian/Bike Lane on Derry St/Rte. 102, from Towhee Dr. to Megan Dr.
	Long-Range Projects Only: Total Project Cost Estimate \$ 454,000

# C. SPECIFIC PROJECT INFORMATION FOR MID- AND SHORT-RANGE PROJECTS ONLY

Cost Estimate:	Federal \$	State \$	Local \$	Private/Other \$	Total \$
Engineering	-	54,480	13,620		68,100
Right of Way		36,320	9,080		45,400
Construction		272,400	68,100		340,500
FTA Capital	*				00
FTA Operating					0
FTA Planning					0
Total	0	363,200	90,800	0	454,000

Is funding currently availa	able? O Yes @	) No		
If yes - Source:			Amount	/Percent:
Submittal of any organization/mur	documents or lette nicipality to provid	ers which demo de the necessar	nstrate the ability of ry local share for this	your project is required
For Roadway/Bridge Pro				
<ul> <li>Please submit a conc</li> </ul>	eptual design of t	the proposed p	project with this form	•
Project length: 2000  Number of lanes:	Road width Shoulder w	n: <u>45' - 65'</u> idth:	ROW width: 50' to ROW acquisition?	
Functional Classification:				
<ul><li>Principal Arterial</li><li>Minor Arterial</li></ul>		Urban/Major Rural Minor C	-	Local Unknown
Existing Conditions	Value	Year	Unknown	Not Applicable
Traffic Volume				
Projected Volume				
Level of Service (LOS)				
Projected LOS				
Bridge Rating				
Accident Rate				
% Heavy Trucks				
Bicycle/Pedestrian Provi	☑ Design ☐ Paved		oedestrian route or t	rail

# D. TRANSPORTATION PLANNING CRITERIA

# 1. Improving Mobility and Accessibility for People and Freight

Does the project add capacity?	
How will the project facilitate or improve regional traffic flow?	
The primary purpose of this project is to enhance safety for pedestrians and bicyclists travell St./Rte. 102. A secondary benefit of this project involves a slight reduction in bus and vehicle Derry St., which are associated with residents and students living in proximity to the 2 public public library legated class Derry St. as well as the pearly place of compared	trips along
How will the project facilitate or improve accessibility for people and/or freight?	
The proposed sidewalk and bike lane will complete the connection between two existing side lanes along Rte. 102/Derry St.	walks and bike
How will the project enhance intermodal mobility?	
N/A	
What other mobility and/or accessibility needs will the project address?	
The proposed sidewalk construction includes ADA construction requirements, such as, sidewalk and ADA truncated bump pads, which will enhance the safety and convenience of travel for challenged pedestrian and wheel-based travellers.	

### 2. Preserving Existing Infrastructure

How will the project extend the lifespan of a roadway, bridge or other facility?

Together with the installation of vertical granite curbing, the proposed sidewalk will help to stabilize the existing edge of pavement. Stormwater drainage infrastructure will also be included in the construction of the sidewalk/bike lane.

How will the project reduce vehicle trips?

This project will help to reduce vehicle trips along the subject corridor by providing a safe and convenient alternative means of travel (i.e., pedestrian and bicycle) to students and other persons travelling from abutting residential neighborhoods to the two nearby public schools and public library, together with places of

How will the project improve deficiencies in existing infrastructure or services?

The project will improve the present deficiency of the existing corridor infrastructure, via the introduction of a safe means of pedestrian and bicycle travel, i.e., a 5 ft. in-width sidewalk and a designated bike route, which will run along the sidewalk and within the roadway pavement surface.

How will the project make more efficient use of existing infrastructure or services?

The project will make more efficient use of the existing infrastructure, by introducing safe and convenient pedestrian and bicycle capacity within the existing ROW. Thereby, helping to reduce the number of vehicle trips associated with the two nearby public schools and public library, together with nearby places of

How else might the project preserve existing infrastructure?

This project will also help to preserve existing infrastructure, by creating a more stable and wider ROW shoulder along the easterly side of Rte. 102, i. e., within the length of the project. Note: the recently completed Phases I and II of this project provide the aforementioned shoulder preservation within the length of

# 3. Transportation and Land Use Connections

How will the project connect existing facilities or destinations?			
The sidewalk will connect to two presently unconnected sidewalks, located to proposed project. In turn, the students and adults living in the abutting resider safe and convenient alternative means of travel (i.e., pedestrian and bicycle) and public library, together with places of community library, together with places of community library together with places of community.	to the two	orhoods nearby	will have a public schools
The project will increase transportation options for the community, e. g., by p bicycle corridor to the two nearby public schools, school bus service will not b benefit, thereby, reducing bus trips along the subject corridor. In addition, vel the project improve provisions for bicycling and walking?	roviding a e required hicle trips v	pedestr for the vithin the	area of
The sidewalk and bike lane will connect to two presently unconnected sidewa north and south of this proposed project. In turn, the students and adults living neighborhoods will have a safe and convenient alternative means of travel (in the proposed public schools and public library, together with places of comments.	in the abu e., pedestr	tting restian and	idential bicycle) to the
Will the project divide/disrupt neighborhoods/communities?	O Yes	⊙ No	O Unknown
Will the project require relocating residential/business properties?			O Unknown
In what other ways might the project enhance transportation and land	use connec	tions?	
This proposed project will connect with two other pedestrian/bike routes, and to mid-range plans of connecting over 7 miles of sidewalks and bike routes of 102 (Derry St.) and Rte. 111 (Ferry St. and Central St.). The interconnection of the control of the state of the control of the state o	ilong Rte. 3 of said side	IA (Lowe walks a	ell Rd.), Rte. nd bikeways <sub></sub>

# 4. A Safe and Secure Transportation System

How will the project reduce the rate and/or severity of crashes?

Established sidewalks and bikeways, as proposed by this project, will help to reduce personal injury and deaths that occur, relative to pedestrians and bicyclists having to walk and ride within the actual roadway surface.

How will the project improve access for emergency vehicles?

The project will improve access for emergency vehicles by virtue of the roadway surface being exclusive to vehicle use and not the sharing of same with pedestrians and bicyclists.

What other safety needs will the project address?

Other safety needs the project will address include: enhanced vehicle safety, for the roadway surface will be exclusive to vehicular travel, i.e., as opposed to pedestrians and bicyclists sharing the roadway, and thereby adding to the distraction and safety of all three parties.

# E. ADDITIONAL CONSIDERATIONS

5.	Natural.	Cultural	and	Historic	Resources
J.	(Iulolul)	COLLOIGI	MIIIM	111310110	1/00001000

· .	Natural, Cultural and Historic Resources			
	Are there federally listed threatened/endangered species, or their criadjacent to the construction area?	tical hab O Yes	itat, with No	nin or O Unknown
	Is the project located in an environmentally sensitive area?	O Yes	No     No	O Unknown
	Are there historic sites or publicly owned public parks, recreation area refuges (Section 4 [f]) within or adjacent to the construction area?	s, wildlife O Yes	e or wat No	erfowl O Unknown
	Is there a National Register listed or potentially eligible historic properesources within or immediately adjacent to the construction area?	rties, or o	archaeo No	logical O Unknown
	Will the project affect any visual or scenic resources?			O Unknown
	If yes to any of the above questions, what mitigation strategies will be	used to	minimize	e impacts?
			0.11	0.11.1
	Will the project improve energy efficiency?	• Yes	O No	O Unknown
ó.	Equitable Distribution of Benefits and Impacts			
	Is the project located in an area with above-average populations of I	ow-incom O Yes	ne, elder No	ly and/or O Unknown
	If yes: a. What mitigation strategies will be used to minimize impacts	o these	oopulati	ons?
	b. What opportunities have been or will be made for these pathe project planning process?  Public meetings will be when and if needed to address any and all public conthis project.			
7.	Consistency with Regional Goals and Objectives  What community goals and objectives does the project support?			
	The community goals and objectives this project supports include: providing a alternative (i.e., physical-based) travel, improve air quality, reduce traffic co. Also, the Town of Hudson has been engaged in a long-term plan of building residentally and billionary, and as hudgetest allowedges provide the community.	ngestion ( nore miles	and ener of inter	gy savings. connected
	What regional goals and objectives does the project support?			
	The regional goals and objectives achieved by the implementation of this proquality, alternative modes of travel, energy savings, enhanced health benefit	ject includ s and traf	le: enhan fic safety	ced air v, etc.
в.	Funding			
	Will the project use alternative funding sources?	O Ye	s O No	O Unknown
	If yes, please list source(s) and amount(s)			

# 9. Project Planning and Public Support

2007	0 0 0
Is the project supported by any local, regional or sta	ate plans? O Yes O No O Unknown
If yes: a. Please check the plan type(s) below	
☑ Local Master Plan	Economic Development Plan
☐ State Transportation Plan	Regional Transportation Plan
☑ Capital Improvement Plan	☑ Community Visioning Plan
✓ Specific Corridor Study	☑ Bike/Pedestrian Plan
☐ Congestion Management Process	Hazard Mitigation Plan
Other:	
b. Is the project a recommended alternative	
Has an Alternatives Analysis been completed?	O Yes   No O Unknown
If yes, please describe both the viable and rejected alternatives analyzed.	
Has a feasibility, engineering, and/or other study be	een completed? • Yes O No O Unknown
If yes, please provide the title and date of the study	
In regard to feasibility, engineering, and/or other studies concerning this project, please refer to the following documentation and materials thereof: Town of Hudson Derry Street/Route 102 Sidewalk and Bike Lane Project, CLD Ref. No. 05-0119, NHDOT #13894.  Are there existing/planned projects that could affect the project?  O Yes  No O Unknown	
If yes, please describe the project(s), including scope, location, and construction date, and explain how the projects will be coordinated.	
What are the potential benefits to the community from	m the improvement project?
The potential community benefits from this improvement project include, but are not limited to: improved air quality, less traffic congestion, alternative safe modes of travel, energy savings, health and traffic safety, etc.	
Have negative impacts been evaluated and if yes, w	what are they? O Yes O No @ Unknown
There are no known measurable negative impacts associated with this project.	
Please describe the public participation process for	the project.
The public participation process for this project has included: public hearings held by the Board of Selectman, Highway Safety Committee review, Board of Selectmen project approval. Please see all documentation supporting the public participation for this project attached herewith.	

 Submittal of any meeting minutes, adopted plans or official letters which demonstrate the support of your organization, Board of Selectmen, Town Council or Aldermen is required.

# <u>Project Narrative Continue Sidewalk on 3A/Lowell Rd. from Nottingham</u> Square to Executive Dr.

This project is proposed in order to connect the existing sidewalks on the east side of Rte. 3A (Lowell Rd.), from Executive Dr. to the south and the Nottingham Square Shopping Center to the north, a distance of 2,500 linear feet. This project specifically calls for the construction, within the existing ROW, of a 5 ft. in-width bituminous concrete sidewalk only, for vertical granite curbing and a 4 ft. in-width bike lane already exist along this stretch of Rte. 3A. As planned, this project will connect with an existing mile long sidewalk, running south along Rte. 3A to Wal-Mart Dr., and north to an existing (and mostly complete) and planned sidewalk network, extending over 4 miles to the Alvirne High School on NH Rte. 102.

The primary purpose of this project is to continue to enhance the safety of pedestrians travelling along the high-speed/high-volume Rte. 3A. A secondary benefit of this project involves a slight reduction in vehicle trips along Rte. 3A, i.e., relative to area residents and employees choosing to walk, rather than drive, to places of commerce, etc. within this subject locus.

In conclusion, the community goals and objectives this project supports include: providing a safe and healthful means of alternative (i.e., physical-based) travel, improved air quality, reduction in traffic congestion, together with energy savings. Also of importance to cite, herein, is that the Town of Hudson has been engaged in long-term plans, and actual implementation of, interconnected sidewalks and bike lanes. To date, and over the course of the last 20 years, Hudson has completed the construction of nearly 5 miles of sidewalks and bike lanes, which of note, are presently not all connected to one another. Taking this latter deficiency of connectedness into account, Hudson's most up-to-date sidewalk and bike lane plans call for all of the existing pedestrian and bicyclists routes to be connected, which, when completed, will result in over 7 miles of safe and healthful routes of travel for municipal and regional pedestrians and bicyclists to utilize for both commuting and for pleasure.



#### NASHUA REGIONAL PLANNING COMMISSION METROPOLITAN PLANNING ORGANIZATION TRANSPORTATION PROJECT PROPOSAL FORM

DIRECTIONS: Please complete this form electronically by downloading it from the NRPC website and saving it on your computer. It can then be completed, saved and submitted via email to the NRPC for consideration. Please provide as much detail as available and appropriate for the proposed project implementation time frame. Projects proposed for the outer years of the Long Range/Metropolitan Transportation plan will be less developed and fewer details are likely to be available. Projects proposed for implementation in the short range or mid-range should be more developed and consequently have more details available. For example, detailed cost estimates by project phase may not be available for long-range projects, therefore only a total cost estimate is required. If attaching supplemental information, please indicate how it supports the project proposal.

A.	<u>IMPLEMENTATION TIME FRAME:</u> O Long-Range O Mid-Range © Short-Range (2013 - 2040) (2017-2022) (2013-2016)
В.	(2023 - 2040) (2017-2022) (2013-2016)  CONTACT INFORMATION
	Municipality/Applicant: Town of Hudson
	Contact Person: John Cashell Title: Town Planner
	Address: 12 School Street, Hudson, NH 03051
	Phone: (603)886-6005
	<ul> <li>A vicinity map that shows the proposed project location and limits.</li> <li>A project narrative that describes the proposed project's purpose and need, and whether it is</li> </ul>
	building upon a previously implemented project or is a component of a larger project.
	Project Route #/Rodd/Location: Rie 3x/Lowell Rd.
	Location Description (i.e., between which intersections or facilities):
	Continue Sidewalk on 3A/Lowell Rd. from Nottingham Square to Executive Dr.
	Long-Range Projects Only: Total Project Cost Estimate \$ 200,000

#### C. SPECIFIC PROJECT INFORMATION FOR MID- AND SHORT-RANGE PROJECTS ONLY

Cost Estimate:	Federal \$	State \$	Local \$	Private/Other \$	Total \$
Engineering		24,000	6,000		30,000
Right of Way					0
Construction		136,000	34,000		170,000
FTA Capital					0
FTA Operating					0
FTA Planning					0
Total	0	160,000	40,000	0	200,000

TIA Capital	1		.1			_
FTA Operating						0
FTA Planning						0
Total	0	160,000	40,000	0		200,000
Is funding currently of		Yes O No or Impact Fees \$4	0,000	Amount	/Percent: <u>20</u>	%
<ul> <li>Submittal of organization</li> </ul>	any document /municipality	s or letters which to provide the n	n demonstrate th ecessary local sh	e ability of y are for this	your project is req	uired.
For Roadway/Bridge	Projects:					
Please submit a	conceptual de	sign of the prop	oosed project wi	th this form.		
Project length: 250		ad width: <u>45' -</u> oulder width:		width: <u>50' to</u> acquisition?		No No
Functional Classificat	ion:					
<ul><li>Principal Art</li><li>Minor Arterio</li></ul>		,	Major Collector Ainor Collector	_	Local Unknown	
Existing Conditions	Val	ue Ye	ar Un	known	Not Applicable	
Traffic Volume						
Projected Volume						<b>—</b> 3
Level of Service (LO	S)					
Projected LOS						_
Bridge Rating						_
Accident Rate						
% Heavy Trucks						
Bicycle/Pedestrian P	<b>\</b>	Sidewalks Designated bid Paved shoulde Shoulders at le	ers		ail	

#### D. TRANSPORTATION PLANNING CRITERIA

#### 1. Improving Mobility and Accessibility for People and Freight

Does the project add capacity?		No
How will the project facilitate or improve regional traffic flow?		
The primary purpose of this project is to enhance safety for pedestrians along Rte. 3A/Low secondary benefit of this project involves a slight reduction in vehicle trips along said road, associated with residents living in proximity to the one nearby public school and nearby plants the address of property along the subject streets to the control of the said and the subject streets to the said as a living to the	which are ices of commer	rce.
How will the project facilitate or improve accessibility for people and/or freight?		_
The proposed sidewalk will complete the connection between two existing sidewalks and bit 3A.	ke lanes along	, Rte.
How will the project enhance intermodal mobility?		
N/A		
What other mobility and/or accessibility needs will the project address?		
The proposed sidewalk construction includes ADA construction requirements, such as, sidewall and ADA truncated bump pads, which will enhance the safety and convenience of travel for challenged pedestrian and wheel-based travellers.		mps

#### 2. Preserving Existing Infrastructure

How will the project extend the lifespan of a roadway, bridge or other facility? The proposed sidewalk will help to stabilize the existing edge of pavement. How will the project reduce vehicle trips? This project will help to reduce vehicle trips along the subject corridor by providing a safe and convenient alternative means of travel (i.e., pedestrian) for students and other persons travelling from abutting residential neighborhoods to the nearby public school and places of commerce located within the vicinity of the sidewalk ad accordated connected sidescelle existing on both ands of this arangeed sidescelle How will the project improve deficiencies in existing infrastructure or services? The project will improve the present deficiency of the existing corridor infrastructure, via the introduction of a safe means of pedestrian travel, i.e., a 5 ft. in-width sidewalk, which will connect to two existing sidewalks one to the north at Nottingham Square and the other to the south at Executive Dr. How will the project make more efficient use of existing infrastructure or services? The project will make more efficient use of the existing infrastructure, by introducing safe and convenient pedestrian capacity within the existing ROW. Thereby, helping to reduce the number of vehicle trips associated with the nearby public school and nearby places of commerce. How else might the project preserve existing infrastructure? This project will also help to preserve existing infrastructure, by creating a more stable ROW shoulder along the easterly side of Rte. 3A/Lowell Rd., within the length of the project.

#### 3. Transportation and Land Use Connections

How will the project connect existing facilities or destinations?			
The sidewalk will connect to two presently unconnected sidewalks, located to proposed project. In turn, students and adults living in the abutting residentia convenient alternative means of travel (i.e., pedestrian) to the nearby public	l properties	will ha	ve a safe and
How will the project increase transportation options for the community	y and/or r	egion?	
The project will increase transportation options for the community, e. g., by a the nearby public school, school bus service may not be required for the area bus trips along the subject corridor. In addition, vehicle trips within the aforement	a of benefit	, thereb	y, reducing
How will the project improve provisions for bicycling and walking?			
The sidewalk and bike lane will connect to two presently unconnected sidewalk south of this proposed project. In turn, the students and adults living in the are convenient alternative means of travel (i.e., pedestrian) to the nearby public	ea will have	a safe	and
Will the project divide/disrupt neighborhoods/communities?	O Yes	No	O Unknown
Will the project require relocating residential/business properties?	O Yes	No	O Unknown
In what other ways might the project enhance transportation and land	use connec	tions?	
This proposed project will connect with two other sidewalks, and as such, will mid-range plans of connecting over 7 miles of sidewalks and bike routes alo (Derry St.) and Rte. 111 (Ferry St. and Central St.). The interconnection of sa	help the co ng Rte. 3A id sidewalk	mmunity (Lowell s and b	Rd.), Rte. 102 ikeways will

#### 4. A Safe and Secure Transportation System

How will the project reduce the rate and/or severity of crashes?

Established sidewalks, as proposed by this project, will help to reduce personal injury and deaths that occur, relative to pedestrians having to walk within the actual roadway surface.

How will the project improve access for emergency vehicles?

The project will improve access for emergency vehicles by virtue of the roadway surface being exclusive to vehicle use and not the sharing of same with pedestrians.

What other safety needs will the project address?

Other safety needs the project will address include: enhanced vehicle safety, for the roadway surface will be exclusive to vehicular travel and existing bike lane, i.e., as opposed to pedestrians and bicyclists sharing the

roadway, and thereby adding to the distraction and safety of all three parties.

#### E. ADDITIONAL CONSIDERATIONS

5.	Natural,	Cultural	and	Historic	Resources
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Natural, Cultural and Historic Resources								
Are there federally listed threatened/endangered species, or their cradjacent to the construction area?	ritical habitat, within or O Yes  O No O Unknown							
Is the project located in an environmentally sensitive area?	O Yes   No O Unknown							
Are there historic sites or publicly owned public parks, recreation areas, wildlife or waterfowl refuges (Section 4 [f]) within or adjacent to the construction area? O Yes O No O Unknown								
Is there a National Register listed or potentially eligible historic properesources within or immediately adjacent to the construction area?	erties, or archaeological O Yes							
Will the project affect any visual or scenic resources?	O Yes   No O Unknown							
If yes to any of the above questions, what mitigation strategies will b	e used to minimize impacts?							
Will the project improve energy efficiency?	Yes O No O Unknown							
Equitable Distribution of Benefits and Impacts								
Is the project located in an area with above-average populations of minority residents?	low-income, elderly and/or O Yes							
If yes: a. What mitigation strategies will be used to minimize impacts	to these populations?							
b. What opportunities have been or will be made for these the project planning process?  Public meetings will be held when and if needed to address any and all public concerning this project.								
Consistency with Regional Goals and Objectives								
What community goals and objectives does the project support?								
The community goals and objectives this project supports include: providing a alternative (i.e., physical-based) travel, improve air quality, reduce traffic of Also, the Town of Hudson has been engaged in a long-term plan of building	ongestion and energy savings. more miles of interconnected							
What regional goals and objectives does the project support?	SWEETER DOORS AND ASSESSMENT OF TWO PARTS AND AND ASSESSMENT OF THE PARTS AND ASSESSME							
The regional goals and objectives achieved by the implementation of this proquality, alternative modes of travel, energy savings, enhanced health benefit	oject include: enhanced air ts and traffic safety, etc.							
Funding								
Will the project use alternative funding sources?								
If yes, please list source(s) and amount(s)								
Rte. 3A Corridor Impact Fees - \$40,000.00.								
	Are there federally listed threatened/endangered species, or their cadipacent to the construction area?  Is the project located in an environmentally sensitive area?  Are there historic sites or publicly owned public parks, recreation are refuges (Section 4 [f]) within or adjacent to the construction area?  Is there a National Register listed or potentially eligible historic propresources within or immediately adjacent to the construction area?  Will the project affect any visual or scenic resources?  Will the project affect any visual or scenic resources?  If yes to any of the above questions, what mitigation strategies will be will be project located in an area with above-average populations of minority residents?  Is the project located in an area with above-average populations of minority residents?  If yes: a. What mitigation strategies will be used to minimize impacts  b. What opportunities have been or will be made for these the project planning process?  Public meetings will be held when and if needed to address any and all pub concerning this project.  Consistency with Regional Goals and Objectives  What community goals and objectives this project supports include providing a alternative (i.e., physical-based) travel, improve air quality, reduce traffic calculations and all public and behaviors and accommodate and support and plan of building solutions.  What regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives does the project support?  The regional goals and objectives achieved by the implementation of this project support.							

#### 9. Project Planning and Public Support

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Is the project supported by any local, regional or st	ate plans? O Yes O No O Unknown
If yes: a. Please check the plan type(s) below	
☑ Local Master Plan	☐ Economic Development Plan
☐ State Transportation Plan	Regional Transportation Plan
☑ Capital Improvement Plan	☑ Community Visioning Plan
☑ Specific Corridor Study	☑ Bike/Pedestrian Plan
☐ Congestion Management Process	☐ Hazard Mitigation Plan
☐ Other:	
b. Is the project a recommended alternative	e in the plan(s)? • Yes O No O Unknown
Has an Alternatives Analysis been completed?	O Yes   No O Unknown
If yes, please describe both the viable and rejected	l alternatives analyzed.
Has a feasibility, engineering, and/or other study b	een completed?
If yes, please provide the title and date of the study	y or studies.
In regard to feasibility, engineering, and/or other studies plans for this project.	concerning this project, please refer to the attached
Are there existing/planned projects that could affect	ct the project? O Yes @ No O Unknown
If yes, please describe the project(s), including scope how the projects will be coordinated.	
What are the potential benefits to the community fro	m the improvement project?
The potential community benefits from this improvement propulation, less traffic congestion, alternative safe modes of the safe modes of t	•
Have negative impacts been evaluated and if yes, w	rhat are they? O Yes O No 🗷 Unknown
There are no known measurable negative impacts associa	ted with this project.
Please describe the public participation process for	the project.
In the near term future the public participation process for Board of Selectman, Highway Safety Committee review, I	r this project will include: public hearings held by the

• Submittal of any meeting minutes, adopted plans or official letters which demonstrate the support of your organization, Board of Selectmen, Town Council or Aldermen is required.

#### Project Narrative Continue Sidewalk on 3A/Lowell Rd. from Birch St. to Pelham Rd.

This project is proposed in order to connect the existing sidewalks on the east side of Rte. 3A (Lowell Rd.), from Birch St. to the north and Pelham Rd. to the south, a distance of 1,630 linear feet. This project specifically calls for the construction, within the existing ROW, of a 5 ft. in-width bituminous concrete sidewalk, curbing and a designated bike lane within the existing Lowell Rd. ROW and areas in which abutting easements have been granted. As planned, this project will connect with an existing sidewalk to the south, which runs several miles along each of the following corridors: Rte. 3a, Rte. 111 and Rte. 102. To the south, this sidewalk will connect with a shorter completed sidewalk and planned 2,500 ft. sidewalk, that when constructed will create a 1.5 mile sidewalk and multi-mile regional bike lane corridor along both Rte. 3A and Dracut Rd.

The primary purpose of this project is to continue to enhance the safety of pedestrians travelling along the high-speed/high-volume Rte. 3A. A secondary benefit of this project involves a slight reduction in vehicle trips along Rte. 3A, i.e., relative to area students, residents and employees choosing to walk, rather than drive, to the nearby public school and places of commerce, etc. within this subject locus.

In conclusion, the community goals and objectives this project supports include: providing a safe and healthful means of alternative (i.e., physical-based) travel, improved air quality, reduction in traffic congestion, together with energy savings. Also of importance to cite, herein, is that the Town of Hudson has been engaged in long-term plans, and actual implementation of, interconnected sidewalks and bike lanes. To date, and over the course of the last 20 years, Hudson has completed the construction of nearly 5 miles of sidewalks and bike lanes, which of note, are presently not all connected to one another. Taking this latter deficiency of connectedness into account, Hudson's most up-to-date sidewalk and bike lane plans call for all of the existing pedestrian and bicyclists routes to be connected, which, when completed, will result in over 7 miles of safe and healthful routes of travel for municipal and regional pedestrians and bicyclists to utilize for both commuting and for pleasure.



#### Metropolitan Planning Organization Metropolitan Transportation Plan 2013-2040

#### Adopted 2013 - 2040 Metropolitan Transportation Plan

Transportation Projects in the Nashua Metropolitan Planning Area

October 17, 2012

IUD	SON					iject D	CAA Status	In TIP?	Overall Project Co
		eBA/Lowell Road		<b>可以</b> 加速性		IP.14	E-51	No	\$669,022
ope	: Add a rig	ht turn lane on fite	3A/Lowell Rd 3	outhbound from	Flagstone Drive	to the we	stbound ra	mp on sa	Saume and R
hase	ΙÝ	Federal \$	NH DOT \$	Other 5	Total \$	Funding	Source		
Р	2019	\$ 77,195	\$0	\$ 19,299	\$ 96,494	Federal			- 10 TO 10 T
R	2019	\$ 226,438	\$0	\$ 56,610	\$ 283,048	Federal			
С	2019	\$ 231,585	\$0	\$ 57,896	\$ 289,481	Federal			
	Total \$:	\$ 535,218	\$ 0	\$ 133,805	\$ 669,023		11.7		
UD	SON	Towns (Inches)			Pro	jerti	CAA Status	In TIP?	Overall Project Co
oute	/Road: Rt	e 102/Derry Road			LR	P10	E-45	No	\$548,446
sope	. Phase II	Continue Pedestri	an/Bike Lane on I	Deny St/Rte. 102	from Towhee	Dr. to Me	an Dr.		
hase	(FY)	FederalS	NH DOTS	Other \$	n Total S	Funding	Source		
Ρ.	2017	\$ 65,814	\$0	\$:16,453	\$ 82,267	Federal		rum an <del>um</del> a	×
R	2017	\$ 43,876	. \$0	\$ 10,969	\$ 54,845	Federal	de mario de a	O-12-17-17	to sureus temps
С	2017	\$ 329,068	\$0	\$ 82,267	\$ 411,335	Federal			
•	Total \$:	\$ 438,757	\$ O	\$ 109,689	\$ 548,446				
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C (UD) Courte Cope Chase P	2/Road: Rt 2 Continue 2018 2018 Total \$: SON 2/Road: Rt 2: Continue 2 EY	Federal \$1 \$24,934 \$124,669 \$149,603  Be BA/Lowell Road Sidewalk on 3A/Lowell \$29,921	NH DOTS \$ 0 \$ 0 \$ 0  \$ 0  WH DOTS \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401 Other's \$ 7,480	Total \$   \$   \$   \$   \$   \$   \$   \$   \$   \$	Federal Federal Federal Federal Federal Federal Federal Federal Federal	Source CAA Status E-45	TIP? No In	Project Go 5 187/00:
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hase P C HUD Route phase P	P/Road, Rt P/2018 2018 2018 Total \$: SON P/Road: Rt a: Continue FY 2018 2018 Total \$:	Federal \$1 \$24,934 \$124,669 \$149,603  Be BA/Lowell Road Sidewalk on 3A/Lowell \$29,921	NH DOTS \$ 0 \$ 0 \$ 0  \$ 0  WH DOTS \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401 Other's \$ 7,480	Total \$ \$ 155,836 \$ 187,003 Pro  UR to Executive D  Total \$ \$ 37,401 \$ 211,937 \$ 249,338	Funding Federal  Federal  Federal  Federal  Federal  Federal  Federal  Federal  Federal	Source  CAA Status E-45  Source  CAA Status E-45	TIPP No.	Project Co 5.187/003
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C HUD Country P C C HUD COUNTRY P C C	FY. 2018 2018 2018 Total \$: SON FORMAL RIVERS TOTAL STATE TO THE PROPERTY OF T	\$ 24,934 \$ 124,669 \$ 149,603 \$ 149,603 \$ 169,500 \$ 169,550 \$ 199,470	NH DOT'S \$ 0 \$ 0 \$ 0 owell Rd. from No NH DOT'S \$ 0 \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401 Other's \$ 7,480 \$ 42,387 \$ 49,868	Total \$ \$ 31,167 \$ 155,836 \$ 187,003 Pro  UR to Executive D  Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro  UR	Federal	CAA Status E-45  CAA Status E-45  CAA Status E-45	TIPP No.	Project Co 5.187/003 Overall Project Co 5249/330
HUD C HUD Copte	FY. 2018 2018 2018 Total \$: SON FORMAL RESERVED BY TOTAL \$: 2018 2018 2018 Total \$: SON FORMAL RESERVED BY TOTAL \$: FY. 2018 2018 Total \$:	** Federal \$1	NH DOT'S \$ 0 \$ 0 \$ 0 owell Rd. from No NH DOT'S \$ 0 \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401 Other's \$ 7,480 \$ 42,387 \$ 49,868	Total \$ \$ 31,167 \$ 155,836 \$ 187,003 Pro  UR to Executive D  Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro  UR	Federal  Funding Federal  Federal  Federal  Federal  Funding Federal  Funding Federal  For to the l	Source  CAA Status E-45  Source  CAA Status E-45  CAA Status E-45  Audson Ma	TIPP No.	Overall Project Co 5.187/00:  Overall Project Co 5241,606
HUD C C C C C C C C C C C C C C C C C C C	P/Road: Rt 2018 2018 2018 2018 Total \$: SON P/Road: Rt 2018 2018 2018 2018 Total \$: SON P/Road: Rt 2018 2018 E-Road: Rt	\$ Sidewalk on BA/Li  \$ 124,934 \$ 124,669 \$ 149,603  BE BA/LOWELL ROad BE SIDEWALK ON BA/Li  Federal SI \$ 29,921 \$ 169,550 \$ 199,470  The sidewalk on BA/Li  Sidewalk on BA/Li  Federal SI  Federal	NH DOTS  \$ 0  \$ 0  \$ 0  DOWNER Rd. from No.  NH DOTS  \$ 0  \$ 0  \$ 0  And the content of the cont	Other'S \$ 6,233 \$ 31,167 \$ 37,401 Other'S \$ 7,480 \$ 42,387 \$ 49,868 Derry St/Rte, 102	Total \$ \$ 31,167 \$ 155,836 \$ 187,003 Pro UR to Executive D Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro UR to From Phillips D	Funding: Federal  Federal  Federal  Federal  Federal  Federal  Funding: Federal  Federal  Federal  Federal  Federal  Federal  Federal	Source  CAA Status E-45  Source  CAA Status E-45  CAA Status E-45  Audson Ma	TIPP No.	Project Co 5.187/003 Overall Project Co 5249/330
HUD C C C C C C C C C C C C C C C C C C C	2/Road, Rt 2/Road, Rt 2018 2018 2018 2018 2018 2018 2018 2018	\$ 124,669 \$ 149,603 \$ 24,934 \$ 124,669 \$ 149,603 \$ 23,410 well Road \$ 3idewalk on 3A/10 \$ 29,921 \$ 169,550 \$ 199,470 \$ 102/Derry Road \$ Continue Pedestri	NH DOTS \$ 0 \$ 0 \$ 0  well Rd. from No NH DOTS \$ 0 \$ 0  Ian/Blke Lane on NH DOTS \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401 Other's \$ 7,480 \$ 42,387 \$ 49,868	Total \$ \$ 155,836 \$ 187,003 Pro  LR to Executive D  Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro  LR	Federal	Source  CAA Status E-45  Source  CAA Status E-45  CAA Status E-45  Audson Ma	TIPP No.	Overall Project Co \$187/00  Overall Project Co \$241,606
C HUD Route C C C C C C C C C C C C C C C C C C C	P/Road: Rt 2018 2018 2018 2018 Total \$: SON P/Road: Rt 2018 2018 2018 2018 Total \$: SON P/Road: Rt 2018 2018 E-Road: Rt	\$ Sidewalk on BA/Li  \$ 124,934 \$ 124,669 \$ 149,603  BE BA/LOWELL ROad BE SIDEWALK ON BA/Li  Federal SI \$ 29,921 \$ 169,550 \$ 199,470  The sidewalk on BA/Li  Sidewalk on BA/Li  Federal SI  Federal	NH DOTS  \$ 0  \$ 0  \$ 0  DOWNER Rd. from No.  NH DOTS  \$ 0  \$ 0  \$ 0  And the content of the cont	Other'S \$ 6,233 \$ 31,167 \$ 37,401 Other'S \$ 7,480 \$ 42,387 \$ 49,868 Derry St/Rte, 102	Total \$ \$ 31,167 \$ 155,836 \$ 187,003 Pro UR to Executive D Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro UR to From Phillips D	Funding: Federal  Federal  Federal  Federal  Federal  Federal  Funding: Federal  Federal  Federal  Federal  Federal  Federal  Federal	Source  CAA Status E-45  Source  CAA Status E-45  CAA Status E-45  Audson Ma	TIPP No.	Overall Project Co \$187/00  Overall Project Co \$241,606
hase P C C C C C C C C C C C C C C C C C C	P/Road: Resident Process of Proce	** Federal \$1	NH DOTS \$ 0 \$ 0 \$ 0  well Rd. from No NH DOTS \$ 0 \$ 0  Ian/Blke Lane on NH DOTS \$ 0	Other's \$ 6,233 \$ 31,167 \$ 37,401  Other's \$ 7,480 \$ 42,387 \$ 49,868  Derry St/Rte: 102 Other's \$ 7,248	Total \$ \$ 31,167 \$ 155,836 \$ 187,003 Pro  UR to Executive D  Total \$ \$ 37,401 \$ 211,937 \$ 249,338 Pro  UR Total \$ \$ \$ 36,241	Federal	Source  CAA Status E-45  Source  CAA Status E-45  CAA Status E-45  Audson Ma	TIPP No.	Project Co 5.187/003 Overall Project Co 5.249/333 Overall Project Co 5.241,606

Phase Codes: P = Preliminary Engineering; R = Right-of-Way; C = Construction

Funding: Bold: FYs of 2013 - 2016 TIP; No Emphasis: Ten Year Plan funding beyond FY2016 or NRPC Estimate (not in TYP)

2013 - 2022 Ten Year Plan Project information is from the approved Plan signed into law June 11, 2012

## Capital Improvement Program

Process Description

#### **CIP PROCESS**

The process of this Capital Improvements Program comprises a series of seven successive steps. Worksheets leading to a complete Capital Improvements Program (CIP) allow for an organized, systematic process for assembling critical and necessary information.

#### STEP 1: CIP ORGANIZATION

The New Hampshire statutes clearly place responsibility for preparation of the CIP with the Planning Board. The Planning Board will prepare the CIP in cooperation with the town departments and the goals of the Master Plan.

The Hudson CIP Committee shall consist of seven voting members as determined by the Planning Board. Certain department heads will serve in an advisory capacity.

#### STEP 2: DEFINE CAPITAL PROJECTS

Capital projects are defined as follows: A non-recurring expenditure for a project or facility having a useful life of at least five years, and generally involving a gross expenditure of at least \$50,000; excluding scheduled vehicle (or rolling stock) replacement.

Capital projects include the following categories:

- •Projects that create a depreciable asset
- Engineering and construction costs for upgrading town facilities and infrastructure
- Special studies and analyses, town wide property revaluation, engineering and Design costs, land acquisition or landfill reclamation / decommissioning costs.

#### STEP 3: REVIEW THE MASTER PLAN

The CIP committee shall review the Master Plan goals and objectives and strive to identify a linkage between the CIP and the Town's long-term goals for facility improvement and providing capacity for future growth.

#### STEP 4: REQUEST INPUTS TO CAPTIAL IMPROVEMENTS PROGRAM

The CIP Committee shall solicit formal inputs for capital projects from all departments, agencies, districts, commissions, and citizens having an impact on the overall capital spending which local citizens and taxpayers support. Proposed projects shall be submitted using forms provided by the Planning Board. In addition to these forms each department shall submit a draft 6-year schedule for capital projects.

#### STEP 5: REVIEW AND RATE CAPITAL PROJECTS

Submitted projects are reviewed and rated in accordance with the following defined criteria:

Evaluation Criteria	Point S	Scor	<u>e</u>			
Further the goals of the Master Plan	5	4	3	2	1	0
Address an emergency or public safety need	5	4	3	2	1	0
Correct a deficiency in service or facility	5	4	3	2	1	0
Provide a capacity needed for future growth	5	4	3	2	1	0
Result in long-term cost savings	5	4	3	2	1	0
Support job development / increase tax base	5	4	3	2	1	0
Leverage the non-property tax revenues	5	4	3	2	1	0
Matching funds available for limited time	5	4	3	2	1	0
TOTAL PROJECT SCORE =	SUM	OF AE	BOVE	SCO	RES	

Following an initial classification of projects the CIP Committee will hold a meeting with the department heads and agencies to discuss the initial review and to hear more information from those proposing the projects. At this time, requests could be entertained to modify the original CIP project requests. Following any amendments or modification, the Committee may wish to have a second public informational meeting to state its initial findings and to hear additional public comment on capital needs or proposals for other projects.

#### STEP 6: PREPARE A 6-YEAR PROJECT SCHEDULE AND PROPOSED FUNDING PLAN

The CIP Committee shall identify projects, which should be included within the six year CIP time frame. The Committee shall also show how the costs of these improvements can be distributed over the years to avoid high property tax impacts of any given year.

Capital projects shall be designated and scheduled on a continuing basis to adhere to a yearly budget level represented by \$1 on the Town's tax rate. In the event a unique high dollar project is proposed (like a new school) which by itself would exceed the \$1 per year budgetary limit, the CIP Committee may submit a plan to the Budget Committee and the Board of Selectmen which temporarily exceeds the \$1 limit.

#### STEP 7: ADOPT AND IMPLEMENT THE CIP

The Planning Board votes to adopt the CIP and forwards it to the Budget Committee and the Board of Selectmen.

The New Hampshire statues clearly place responsibility for preparation of the Capital Improvements Program (CIP) with the Planning Board. The Planning Board will prepare the CIP plan in cooperation with the town departments and the goals of the Master Plan.

The Hudson, NH CIP Committee shall consist of seven voting members. Certain department heads will serve in an advisory capacity. Membership is further defined as follows:

- 2.1 The chairman of the CIP Committee shall be a member of the Planning Board, Appointed by the chairman of the Planning Board. The appointment will be on an annual basis, usually in January.
- The Town Planner is designated as the central coordinator of the CIP process. Duties of the Town Planner in this role shall include the following:
  - Assist the Planning Board in its role to properly execute the CIP Process.
  - Maintain a file of all correspondence and minutes of meetings relating to the CIP.
  - Facilitate CIP Committee meetings. Post meeting notices. Assist departments or public in the preparation of CIP requests.
- 2.3 Two (2) members of the Planning Board, other than the CIP Committee Chairman.
- One representative from the School Board, the Budget Committee, and the Board of Selectmen. In addition, one Town resident.
- 2.5 The Finance Director shall serve in an advisory role.

#### 3.0 CIP SCHEDULE

The CIP Committee shall develop a schedule of events for the CIP process. A simple format for the schedule is included as Table 1 (see attached page 6).

#### 4.0 CAPITAL PROJECTS REQUIREMENTS/DEFINITION

Capital projects are defined as follows, a non-recurring expenditure for a project or facility having a useful life of at least five-years, and generally involving a gross expenditure of at least \$50,000; excluding vehicle replacement.

Capital projects include the following categories:

- Projects that create a depreciable asset.
- Engineering and construction costs for upgrading town facilities.
- Special studies and analyses, town wide property revaluation, engineering and design cost, land acquisition or landfill reclamation/decommissioning cost.

#### 5.0 CAPITAL PROJECTS BUDGETING

Capital projects shall be designated and scheduled on a continuing basis to adhere to a yearly budget level represented by one dollar (\$1.00) on the Town's tax rate. In the event the unique high dollar project is proposed (like a new school) which by itself would exceed the \$1 per year budgetary limit, the CIP Committee may submit a plan to the Budget Committee and the Board of Selectmen which temporarily exceed the \$1 limit.

#### 6.0 REVIEW THE MASTER PLAN

The CIP Committee shall review with Master Plan goals and objectives to strive to identify a linkage between the Capital Improvements Program and the town's long-term goals for facility improvement and providing capacity for future growth. The following sections in the Master Plan shall be included in this review.

Population and Housing Community Facilities Utilities Recreation Transportation
Economic Development
Conservation and Preservation

#### 7.0 Classification of Projects Based on the Master Plan

The Capital Improvements Projects submitted to the CIP Committee shall be identified with the Master Plan goals and objectives. Initial classification of projects shall be accomplished in a general manner by groupings of projects which:

- 7.1 Adhere an imminent danger or threat or are needed to respond to a state or federal mandate.
- 7.2 Protect health and safety.
- 7.3 Improve the quality or level of Town services.
- 7.4 Expand capacity to serve new demand.

#### 8.0 Solicit proposals for Capital projects from departments

- 8.1 The CIP Committee shall solicit formal inputs for capital projects from all departments, agencies, districts, commissions and citizens having an impact on the overall capital spending which are supported by local citizens and taxpayers. Proposed projects shall be submitted using the sample format attached as Table 2 (see-attached page 7). A separate sheet shall be filed for each project proposed.
- 8.2 In addition to these forms each department shall submit a draft 6-year schedule for the proposed projects.

#### 9.0 Review and rate proposed capital projects.

The project request forms see Table 2, proposed to each department for submission of capital project proposals, will contain indicators of departmental priorities and their justification by urgency and need. The CIP Committee will use its judgement to classify and prioritize the projects from an overall community perspective.

#### 9.1 Point System

An initial classification will be developed to accord the relative rank of the projects, in accordance with the numerical scoring system as defined in Table 3 (see attached page 8). A specific number of points will be awarded to each project for each of several review criteria as listed below and included in Table 3.

Evaluation Criteria	Point Score
Addresses an emergency or public safety need	5 4 3 2 1 0
Corrects a deficiency in service or facility	5 4 3 2 1 0
Provides capacity needed for future growth	5 4 3 2 1 0
Results in long-term cost savings	5 4 3 2 1 0
Supports job development/increased tax base	5 4 3 2 1 0
Furthers the goals of the Master Plan	5 4 3 2 1 0
Leverages the non-property tax revenues	5 4 3 2 1 0
Matching funds available for limited time	5 4 3 2 1 0

- 9.2 The Planning Board shall develop an initial needs classification or priority ranking of the proposed projects on Table 4 (see attached, page 9). Point scores shall be entered using the data derived from the scoring system defined in paragraph 9.1.
- 9.3 Following an initial classification of projects the CIP Committee will hold a meeting with the department heads and agencies to discuss the initial review and to hear more information from those proposing the projects. At this time, requests could be entertained to modify the original CIP project requests. Following any amendments or modifications, the Planning Board may wish to have a second public informational meeting to state its initial findings and to hear additional public comment on capital needs or proposals for other projects.

#### 10.0 PREPARE A 6 YEAR PROJECT SCHEDULE

The CIP Committee shall identify projects, which should be included within the six year CIP time frame. The committee shall also show how the costs of these improvements can.

#### 10.1 Draft Schedule of Annualized Costs and Revenues

The following worksheets shall be used to draft a capital Improvements Program which considers the net annualized cost of \$1.00/\$1,000 of assessed property value. Tables 5 and 6 (see attached pages 10-15) can be used to modify the sequence of capital projects within fiscal constraints, suggest alternative funding means or other strategies to even out the potential property tax impacts of various combinations of capital improvements.

Table 5: Illustrates a worksheet for scheduling capital improvement projects and their

annualized costs.

Table 6: Provides worksheets for entering specific non-property tax revenues, which

may be dedicated to the capital improvements, proposed.

#### 10.2 Adjust the Six Year Schedule

#### 11.0 ADOPT AND IMPLEMENT THE CAPITAL IMPROVEMENT PROGRAM AND BUDGET

The Planning Board shall adopt the CIP plan after at least one public hearing unless there are substantive changes made as a result of the comments received at the public hearing. A certified copy of the plan is then filed with the Town Clerk and a copy filed with the Office of State Planning.

When the Planning Board has adopted a Capital Improvements Program, it is required to transmit its recommendations for the current year to the Board of Selectmen and the Budget Committee for consideration in the annual budget. Table 7 (see attached page 16) provides a format for the presentation of the annual CIP recommendations by the Planning Board.

#### Table 1

#### **TOWN OF HUDSON**

#### FY2016 CAPITAL IMPROVEMENTS COMMITTEE (CIC) SCHEDULE

DATE	EVENT
Friday, March 28, 2014	FY2016 Capital Improvement Program (CIP) submittals due.
Monday April 14, 2014	CIC Organizational Session, Community Development, Library, Recreation Department
Monday April 28, 2014	School, Police Department, and Fire Department
Monday May 5, 2014	Highway Department, Conservation Commission, Board of Selectmen. Public Proposals, Benson's Committee. C.I.C. Assigns Priorities and Ranks Projects & Develops Annualized Capital Project Schedule and Cost.
June 27, 2014	Publish draft CIP for Departmental and Public comment
July 9, 2014	<b>Public Hearing</b> and Planning Board vote on CIP
August 13, 2014	Distribute final C.I.P. to Board of Selectmen, Budget Committee, C.I.P. Committee, and Planning Board.

Meetings begin at 7:00 PM and are held in the Community Development Meeting Room. <u>Underlined</u> dates are when the CIC meets with Town departments.

TABLE 2  CAPITAL IMPROVEMENTS I	PROGRAM
Department Priority: 0	of Projects FY 2007
Primary effect of project is to:   Replace or repair existing facilities or     Improve or repair existing facilities or     Expand capacity of existing service     Provide new facility or service capacity	or equipment or equipment level facility
Service Area of Project (Check One)  Region Town School District District	Central Business District Neighborhood Street Other Area
Project Name:  Description:  Rational for Project: (Check those that apply: elaborate below.)  Removes imminent threat to public heal Alleviates substandard conditions or de: Responds to federal or state requiremen Improves the quality of existing service Provides added capacity to serve growth Reduces long term operating costs Provides incentive to economic develop Eligible for matching funds available for	ticiencies at to implement es h
Cost Estimate: (Itemize as necessary)  Capital Costs  Dollar Amount (in current \$'s)  \$Planning/feasibility analysis  \$Architecture & engineering fees  \$Real estate acquisition  \$Site Preparation  Construction  \$Furnishing & equipment  \$Vehicles & Capital Equipment  \$  Teach President cost	Impact on Operating & Maint. Costs or Personnel Needs  Add Personnel Increase O&M costs Reduce Personnel Decreased O&M costs  Dollar Cost of Impacts if know Plus \$ annually  Minus \$ annually
Source of Funding:  Grant from: Loan From: Donation/bequest/private User fees & charges Capital reserve withdrawal Impact fee account Current revenue Bonds  Total project cost	Form Prepared By:  (Signature)  Title  Department/Agency

TABLE 3: LIST OF PROJECTS SUBMITTED FOR REVIEW IN CAPITAL, IMPROVEMENT PROGRAM	S SUBM VEMEN	TTTED FO	R REVIEW				
Description of Project or Equipment	Dept.	Dept. Priority	Proposed Program	Total Cost	Project Notes	Priority Class or Point Score	
		Kank	Year				_
							_
							-
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							-1
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2.5							
3							Т
							$\neg$
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# TABLE 4 PROJECT RATING TABLE

Point Score	5 4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	4 3 2 1 0	5 4 3 2 1 0	SUM OF ABOVE SCORES
S J	4	4	4	4	4	4	4	4	
<u> </u>	5	5	2	5	5	5	2	2	
Evaluation Criteria	Further the goals of the Master Plan	Address an emergency or public safety need	Correct a deficiency in service or facility	Provide a capacity needed for future growth	Result in long-term cost savings	Support job development / increase tax base	Leverage the non-property tax revenues	Matching funds available for limited time	TOTAL PROJECT SCORE, =

TABLE 5 PAGE 1						
SCHEDULE OF CAPITAL IMPROVEMENT PROJECTS AND ANNUALIZED COSTS  (Includes Existing Scheduled Debt and New Bonded Debt for Proposed Projects)	VD ANNUAL Proposed Pr	ZED rojects)				
DESCRIPTION OF PROJECT OR Year 1 Year2 EQUIPMENT By Department or Service	Year 3 Y	Year 4	Year 5	Year 6	6 Year Total	
ADMINISTRATIVE/GENERAL GOVT		2				
PUBLIC SAFETY						
POLICE DEPARTMENT						
FIRE DEPARTMENT						
HIGHWAY DEPARTMENT						

COMMUNITY DEVELOPMENT  SEWER  (Includes Existing Scheduled Debt and New Bonded Debt for Proposed Projects)  TOTAL  Area  RECREATION  COMMUNITY DEVELOPMENT  SEWER  (Includes Existing Scheduled Debt and New Bonded Debt for Proposed Projects)  YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 6 6 YEAR  TOTAL  TOTAL  TOTAL  SEWER  SEWER	TABLE 5 PAGE 2 SCHEDULE OF CAPITAL IMPROVEMENT PROJECTS AND ANNUALIZED COSTS	MENT PR	30JECT	S AND				
iON  TY DEVELOPMENT  Fxisting Scheduled Debt and New Bonded Debt for Proposed Projects)  YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6  YEAR 1 YEAR 1 YEAR 3 YEAR 4 YEAR 5 YEAR 6  YEAR 1 YEAR 1 YEAR 2 YEAR 6  YEAR 1 YEAR 1 YEAR 5 YEAR 6  ION  TY DEVELOPMENT				-				
ION OF PROJECT OR YEAR 1 YEAR 2 YEAR 3 YEAR 5 YEAR 6 YEAR 6 YEAR 6 YEAR 7 YEAR 7 YEAR 8 YEAR 6 YEAR 8 YEAR 9 YEAR	(Includes Existing Scheduled Debt and Nev	v Bonded [	Debt for Pr	oposed P	rojects)			
TECREATION  LIBRARY  COMMUNITY DEVELOPMENT  SEWER  DPW	DESCRIPTION OF PROJECT OR EQUIPMENT By Department or Service	YEAR 1			YEAR 4	YEAR 5	YEAR 6	6 YEAR TOTAL
COMMUNITY DEVELOPMENT SEWER  DPW	RECREATION							
COMMUNITY DEVELOPMENT  SEWER  DPW								
SEWER  DPW	LIBRARY							
SEWER  DPW	6							
SEWER  DPW	COMMUNITY DEVELOPMENT							
SEWER DPW								
DPW	SEWER							
DPW								
DPW								
	DPW							

No.

SCHEDULE OF CAPITAL IMPROVEMENT PROJECTS AND ANNUALIZED COSTS	OVEMEN COSTS	F (0					
(Includes Existing Scheduled Debt and New Bonded Debt for Proposed Projects)	Bonded [	Debt for Pr	pesodo				
DESCRIPTION OF PROJECT OR	YEAR 1	YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5	YEAR 3	YEAR 4	YEAR 5	YEAR 6	6 YEAR
EQUIPMENT By Department or Service							IOIAL
TOTAL TOWN CAPITAL EXPENDITURE							
TOWN SERVICES							
SEWER							
TOTAL TOWN CAPITAL EXPENDITURES							
SCHOOL CAPITAL COSTS: LOCAL SHARE							
COMMUNITY DEVELOPMENT							
TOTAL CAPITAL EXPENDITURE							

TABLE 6 PAGE 1 SCHEDULE OF NON-PROPERTY TAX REVENUES AVAILABLE FOR CAPITAL PROJECTS AND CAPITAL PROJECT IMPACT ON TAX RATE	REVENI OJECT II	JES AVA	ILABLE ON TAX	FOR CA	PITAL		
DESCRIPTION OF PROJECT OR YEAR 1 EQUIPMENT By Department or	R 1	EAR 2 YE	EAR 3	rear 4	YEAR 5	YEAR 6	YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 6 YEAR TOTAL
ADMINISTRATIVE/GENERAL GOVT							
PUBLIC SAFETY							
POLICE DEPARTMENT							
125							
FIRE DEPARTMENT							
HIGHWAY DEPT							

TABLE 6 PAGE 2

SCHEDULE OF NON-PROPERTY TAX REVENUES AVAILABLE FOR CAPITAL	PROJECTS AND CAPITAL PROJECT IMPACT ON TAX RATE

L					 					
- 4 - 4 - 4 - 4 - 4 - 4 - 4	0 TEAK IOTAL									
0 0 0 1/4	YEAK 0									
7 6 4 17	YEAK 1   YEAK 2   YEAK 4   YEAK 5   YEAK 6   YEA									
1	YEAK 4									
0 0 0 1	YEAKS									
0 0 0 0 0 0	YEAK 2									
, 6	YEAK 1									
	DESCRIPTION OF PROJECT OR EQUIPMENT By Department or Service Area	RECREATION		LIBRARY		COMMUNITY DEVELOPMENT	.30	SEWER	DPW	

TABLE 6 PAGE 3

SCHEDULE OF NON-PROPERTY TAX REVENUES AVAILABLE FOR CAPITAL PROJECTS AND CAPITAL PROJECT IMPACT ON TAX RATE	
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DESCRIPTION OF PROJECT OR EQUIPMENT By Department or Service Area	YEAR 1	YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 6 YEAR TOTAL	YEAR 3	YEAR 4	YEAR 5	YEAR 6	6 YEAR TOTAL
TOTAL TOWN CAPITAL EXPENDITURE							
TOWN SERVICES							
SEWER							
SCHOOL CAPITAL COSTS: LOCAL SHARE							
TOTAL CAPITAL EXPENDITURE							

TABLE 7

CAPITAL BUDGET OF FY         RECOMMENDED FOX         RECOMMENDED FOX           DESCRIPTION OF PROJECT OR Area         Recomme Non-Property tax Property Tax Property Tax Area         Notes           Acoul PMENT By Department or Service and Area         Area Revenues Project Articipated for Arti				T-1-001 10 11 14 1	the Conital Improvement
DESCRIPTION OF PROJECT OR Recomme Non-Property Tax Revenues and Project Anticipated for Required Anticipated for Required Anticipated for Project Amount Source Amount Sou	 유	MMENDED F	OK INCLUSION II	1	sased off the Capital Improvement
EQUIPMENT By Department or Service Area         Indeed Anticipated for Project Amount Source Amount Source Amount Source Amount Source Administrative/GENERAL GOVT           POLICE         Amount Source	DESCRIPTION OF PROJECT OR	Recomme		Property Tax	Notes
Area Auricipated for Anticipated for Anticipat	EQUIPMENT By Department or Service	papu	Revenues	Revenues	
ADMINISTRATIVE/GENERAL GOV"T  POLICE  FIRE  HIGHWAY  LIBRARY  COMMUNITY DEVELOPMENT  SEWER  SCHOOL DISTRICT  TOTAL MUNICIPAL CAPITAL  EXPENDITURE  SCHOOL CAPITAL COSTS: LOCAL  SCHOOL CAPITAL BUDGET  TOTAL CAPITAL BUDGET  FIRE  TOTAL CAPITAL BUDGET  RECOMMENDED	Area	Budget	Anticipated for Project	Required	
ADMINISTRATIVE/GENERAL GOV POLICE FIRE HIGHWAY COMMUNITY DEVELOPMENT SEWER EXPENDITURE SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED			Amount Source		
	POLICE				
	FIRE				
	HIGHWAY				
LIBRARY  COMMUNITY DEVELOPMENT  SEWER  SCHOOL DISTRICT  TOTAL MUNICIPAL CAPITAL  EXPENDITURE  SCHOOL CAPITAL COSTS: LOCAL  SCHOOL CAPITAL BUDGET  TOTAL CAPITAL BUDGET  RECOMMENDED					
LIBRARY  COMMUNITY DEVELOPMENT  SEWER  SCHOOL DISTRICT  TOTAL MUNICIPAL CAPITAL  EXPENDITURE  SCHOOL CAPITAL COSTS: LOCAL SHARE  TOTAL CAPITAL BUDGET  RECOMMENDED					
COMMUNITY DEVELOPMENT  SEWER  SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL EXPENDITURE SCHOOL CAPITAL TOTAL MUNICIPAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED	LIBRARY				
SEWER SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL EXPENDITURE SCHOOL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED					
SEWER SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED	COMMUNITY DEVELOPMENT				
SEWER SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED					
SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED	SEWER				
SCHOOL DISTRICT TOTAL MUNICIPAL CAPITAL EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED					
TOTAL MUNICIPAL CAPITAL  EXPENDITURE SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED	SCHOOL DISTRICT				
SCHOOL CAPITAL COSTS: LOCAL SHARE TOTAL CAPITAL BUDGET RECOMMENDED	TOTAL MUNICIPAL CAPITAL				
TOTAL CAPITAL BUDGET  RECOMMENDED	SCHOOL CAPITAL COSTS: LOCAL				
RECOMMENDED	TOTAL CAPITAL BLIDGET				
	RECOMMENDED				

## Capital Improvement Program

## FY2016 Meeting Agendas & Minutes

#### PUBLIC MEETING TOWN OF HUDSON, NH APRIL 14, 2014

The Town of Hudson Capital Improvements Committee will hold a meeting on Monday, April 14, 2014 at 7:00 p.m. in the "Community Development Meeting Room" at Town Hall. The Capital Improvements Committee (CIC) is scheduled to review the FY2016 CIP projects for the Police and Fire Departments. In this regard, each of these departments will have a representative(s) at the meeting in order to present their respective projects.

- I. CALL TO ORDER AT 7:00 P.M.
- II. PLEDGE OF ALLEGIANCE
- III. ROLL CALL
- IV. CORRESPONDENCE
- V. NEW BUSINESS:
  - A. CIC Organizational Session
  - B. Review and Rank Fiscal Year 2016 Capital Improvements Program projects for the following departments:
    - 1) Police
    - 2) Fire Department
- VI. OTHER BUSINESS
- VII. ADJOURNMENT

All proposed Capital Improvements Program projects are available for review in the Planning Office. Comments may be submitted in writing until 12:00 noon on the Thursday prior to the day of the meeting.

The public is invited to attend.

John M. Cashell Town Planner

Posted: April 3, 2014 Library Post Office Town Hall

## HUDSON FY2016 CAPITAL IMPROVEMENTS PROGRAM COMMITTEE MEETING MINUTES April 14, 2014

- CALL TO ORDER Chairman George Hall called this Capital Improvements Committee (CIC) to order at 7:05 p.m. on Monday, April 14, 2014, in the Board of Selectmen Meeting Rm., Town Hall basement.
- II. Pledge of Allegiance Chairman Hall led the assembly in pledging allegiance to the Flag of the United States of America.
- III. ROLL CALL Chairman Hall called the roll. Those persons present, along with various applicants, representatives, and interested citizens, were as follows:

**Members** 

Present:

George Hall, Tim Malley, Glenn Della-Monica, and Richard Maddox (Selectmen's Representative), Geoffrey Keegan, Budget Committee Member, Laura Bisson, Chair of the Hudson School Board and Normand Martin, Citizen Rep.

**Members** 

Absent:

N/A

Staff/Recorder

Present:

Town Planner John Cashell.

IV.

#### A. CIC Organizational Session

Chairman Hall began the meeting by going over the CIP process, i.e., Steps 1-7, as cited in the CIP PROCESS document, which is attached to the staff report for this meeting.

- B. Review and Rate Fiscal Year 2016 Capital Improvements Program Projects for the following departments:
- 1) Hudson Police Department FY2016 CIP Police Facility Expansion

The Police Dept., represented by Police Chief, Jason Lavoie, presented this department's CIP project, which involves a proposed expansion to the existing Police Station. After Chief Lavoie completed his presentation he answered several questions and concerns from CIC members. For example, the Chief stated that he has not been able to receive actual construction quotes for the proposed addition to the station. He said this was due to the fact that the Police Department does not have within their budget funds necessary to hire an architect to prepare a construction estimate.

During the course of the review, committee members suggested to the Chief that, perhaps, the best course of action to try and accomplish the goal of the addition, would be to first propose to the Board of Selectmen the need to establish funding for the planning of the project, followed by funding for the design and engineering and then for the actual construction, and that such a three phased approach, spread out of several years, could provide the means to see this project through to fruition.

The chief concurred with the aforementioned phased approach to this project, but he also acknowledged that because the existing Police Station is relatively new, that is, compared to the need for a new Central Fire Station, that he feels it would be in the Town's best interest to first build said Fire Station, before building an addition to the Police Station. On this note, the CIC moved to take the Police Department's proposed project under advisement, and chose to rate this project later in the meeting.

The above-cited project is described in-full, per the attached document entitled: **Hudson Police Department FY2016 CIP Police Facility Expansion**. This document includes: the Cover Sheet,
Project Rating Table, Tables 2 & 3 and the project narrative. Please note, in accordance with the
CIP prerequisite, Chief Lavoie presented the subject project to the BOS, and received their
support to present this project to the CIC.

After due deliberation at the end of the meeting, the CIC voted on the above proposed Police Station addition as follows:

This project received a total number of points from the 7 voting CIC members of 133, broken down on a per member count as follows:

George Hall, Chair awarded this project a total score of 25 Glenn Della-Monica – 24 Geoffrey Keegan – 19 Normand Martin – 22 Laura Bisson – 18 Tim Malley – 14 Selectman Rick Maddox – 11

Note: the above scores resulted from the following Project Rating Table:

#### PROJECT RATING TABLE

#### POLICE - FACILITY EXPANSION

<b>Evaluation Criteria</b>			<b>Point Score</b>					
Further the goals of the Master Plan	5	4	3	2	1	0		
Address an emergency or public safety need	5	4	3	2	1	0		
Correct a deficiency in service or facility	5	4	3	2	1	0		
Provide a capacity needed for future growth	5	4	3	2	1	0		
Result in long-term cost savings	5	4	3	2	1	0		
Support job development / increase tax base	5	4	3	2	1	0		
Leverage the non-property tax revenues	5	4	3	2	1	0		
Matching funds available for limited time	5	4	3	2	1	0		

TOTAL PROJECT SCORE = 133 SUM OF ABOVE SCORES

#### 2) Hudson Fire Department

The next order of business at the meeting was the Fire Dept., represented by Chief Robert Buxton, who presented this department's 3 CIP projects:

- 1) Central Fire Station
- 2) Burns Hill Fire Station
- 3) Radio System

After Chief Buxton completed his presentation on each of the above proposed projects, he answered questions from CIC members. For example, in regard to the proposed Central Fire Station, he described the history of the present facility, i.e., when it was constructed in 1952, and then added onto in 1987. He also cited that the present Central Fire Station, together with the separate Administration Building, add up to a total of 11,606 sf, whereas, the space needs study

conducted several years ago determined that for a Town of Hudson's size and population, a Central Fire Station should provide space of nearly 23,000 sf. He said this fact, together with the structural age and other inadequacies of the building, including ithat it's in accessible to those with physical challenges, basically make the facility inappropriate for a community such as Hudson, both size-wise concerning firefighting and emergency apparatus, as well as concerning the administrative and training needs of the Fire Dept.

The above-cited projects are described in-full, per the attached document entitled: **Hudson Fire Department FY2016 CIP Central Fire Station, Burns Hill Fire Station, and Radio System**. For each of the 3 projects, this document includes: a Project Rating Table, Tables 2 & 3 and a project narrative. Please note, in accordance with the CIP prerequisite, Chief Buxton presented the subject projects to the BOS, and received their support to present them to the CIC.

At the conclusion of the above presentations, the CIC moved to rate the presented projects, as follows:

1) Central Fire Station - This project received a total number of points from the 7 voting CIC members of 150, broken-down on a per member count as follows:

George Hall, Chair awarded this project a total score of 26 Glenn Della-Monica – 25 Geoffrey Keegan – 20 Normand Martin – 24 Laura Bisson – 25 Tim Malley – 17 Selectman Rick Maddox – 13

2) Burns Hill Fire Station - This project received a total number of points from the 7 voting CIC members of 98, broken-down on a per member count as follows:

George Hall, Chair awarded this project a total score of 16 Glenn Della-Monica – 18 Geoffrey Keegan – 07 Normand Martin – 19 Laura Bisson – 16 Tim Malley – 11 Selectman Rick Maddox – 11

3) Radio System - This project received a total number of points from the 7 voting CIC members of 107, broken-down on a per member count as follows:

George Hall, Chair awarded this project a total score of 12 Glenn Della-Monica – 21 Geoffrey Keegan – 20 Normand Martin – 20 Laura Bisson – 11 Tim Malley – 13 Selectman Rick Maddox – 10

Please note, the above 3 Fire Department CIP proposed projects were rated based on the

same criteria specified in the above Project Rating Table (see page 2 of these minutes).

#### V. OTHER BUSINESS:

In other business discussed at this initial CIP meeting, staff cited that he spoke with the Town's Finance Director, Kathy Carpentier, concerning the status of Town Debt, i.e., as it relates to the Capital Improvement Program. Mr. Cashell stated that Ms. Carpentier reported to him that said debt amount is "\$0.00". "Yes, there is some debt obligation pertaining Water Utilities, but this obligation is paid by user fees, and not as part of the debt funding provided for and described in the CIP process", Mr. Cashell stated. In regard to the aforementioned debt issue, Mr. Cashell referred to the CIP PROCESS document included in his staff report for this meeting. Specifically, STEP 6 (page 2 of 16) and Section 5.0 of said document (page 2 of 16).

In the above-cited CIP Process document, Mr. Cashell pointed-out that such capital investment debt, and its beneficial leverage capacity, can provide an affordable means to fund very much needed infrastructure improvement projects. He stressed, that the CIC must focus serious attention on this subject.

#### VI. ADJOURNMENT

Meeting adjourned at approximately 10:05 P.M.

Respectfully Submitted,

John M. Cashell Town Planner

#### PUBLIC MEETING TOWN OF HUDSON, NH APRIL 28, 2014

The Town of Hudson Capital Improvements Committee will hold a meeting on Monday, April 28, 2014 at 7:00 p.m. in the "Community Development Meeting Room" at Town Hall. The Capital Improvements Committee (CIC) is scheduled to review the FY2016 CIP projects for the Municipal Utility Committee and Land Use Division. In this regard, each of these departments will have a representative(s) at the meeting in order to present their respective projects.

- I. CALL TO ORDER AT 7:00 P.M.
- II. PLEDGE OF ALLEGIANCE
- III. ROLL CALL inaccessible
- IV. CORRESPONDENCE
- V. NEW BUSINESS:
  - A. Review and Rank Fiscal Year 2016 Capital Improvements Program projects for the following departments:
    - 1) Municipal Utility Committee
    - 2) Land Use Division
- VI. OTHER BUSINESS
- VII. ADJOURNMENT

All proposed Capital Improvements Program projects are available for review in the Planning Office. Comments may be submitted in writing until 12:00 noon on the Thursday prior to the day of the meeting.

The public is invited to attend.

John M. Cashell
Town Planner

Posted at Town Hall, Library and Post Office on April 23, 2014.

## HUDSON FY2016 CAPITAL IMPROVEMENTS PROGRAM COMMITTEE MEETING MINUTES April 28, 2014

- I. CALL TO ORDER Chairman George Hall called this Capital Improvements Committee (CIC) to order at 7:05 p.m. on Monday, April 14, 2014, in the Board of Selectmen Meeting Rm, Town Hall basement.
- II. Pledge of Allegiance Chairman Hall led the assembly in pledging allegiance to the Flag of the United States of America.
- III. ROLL CALL Chairman Hall called the roll. Those persons present, along with various applicants, representatives, and interested citizens, were as follows:

**Members** 

Present:

George Hall, Tim Malley, Glenn Della-Monica, and Richard Maddox (Selectmen's Representative), Geoffrey Keegan, Budget Committee Member, Michael Truesdell, Member of the Hudson School Board and

Members

Absent:

Normand Martin, Citizen Rep.

Staff/Recorder

Present:

Town Planner John Cashell.

- A. Review and Rate Fiscal Year 2016 Capital Improvements Program projects for the following committee and department:
  - 1) Municipal Utility Committee

At the meeting the Municipal Utility Committee was represented by its Chairman, Bernie Manor, who presented the proposed water distribution improvement projects included in the attached FY2016 Municipal Utility Committee's CIP Report. He stated that the first 3 proposed projects need to be thought of as one project, "...because if all three are not built there's no sense in building only 1 or 2." The subject 3 projects are: 1) the Windham Road Booster Station, 2) the 1.2 MGD Water Storage Tank at Barretts Hill, and 3) the 5,200 lf 12" Water Main for Barretts Hill Rd.

After the CIC members deliberated on the dilemma of how to best implement the above 3 separate projects, which, again, all need to be completed in the same time period in order for any one of them to provide a water distribution benefit for the Town, it was agreed that these projects should be combined as one, and recommended as such in the FY2016 CIP.

In effect, the above-cited 3 projects were combined as one and received a total vote of 140, i.e., by the 6 voting CIC members present at the meeting. Note: also included in the foregoing vote total was an average vote of 20, which represents the average of the vote totals cast by each of the 6 present voting members, with said average vote representing that of absent member, Normand Martin. Broken down on a per member count, this project received from:

George Hall, Chair awarded this project a total score of 17 Glenn Della-Monica – 22 Geoffrey Keegan – 19 Normand Martin – A (avg. points applied 20) Michael Truesell – 19 Tim Malley – 20 Selectman Rick Maddox – 23

In addition to the above action taken by the CIC in regard to the Municipal Utility Committee's FY2016 CIP Report, they reviewed an additional 6 capital improvement projects supported by said committee, relative to preparing for the out years of this CIP, i.e., 2017 - 21. These 6 projects together with the aforementioned 3 projects now combined into 1 are described in-full, per the attached document entitled: **Municipal Utility Committee FY2016 CIP**. This document includes: the Cover Sheet, Project Rating Table, Tables 2 & 3 and a report prepared by Jeffrey W. McClure, P.E., Project Mgr., for the Town's consulting engineering firm, Weston & Sampson Engineering, Inc. This report details the following 2 water distribution improvements projects: Water Line Extension Greeley St. to Alvirne High School and the Water Line Extension End Old Derry Rd. to Christine Dr.

#### 2) Land Use Division

The next order of business at the meeting was the review of the Land Use Division FY2016 CIP projects. The presenter was this author and the proposed projects include the following:

					A
Melendy Rd Bridge	Land Use Div.	1	2016	\$345,000	NHDOT 80% FUNDING
moionay ita zinage					
County Rd Bridge	Land Use Div.	2	2016	\$410,000	NHDOT 80% FUNDING
Add 2d Lane SB Lowell Rd to	Land Use Div.	3	2017	\$520,000	IMPACT FEES & NHDOT FUNDING
Sagamore Bridge Rd WB	Land Ose Div.		2011	<b>4020,000</b>	
Rtes. 102, 111 and 3A Sidewalk Improvement Projects	Land Use Div.	4	2018		IMPACT FEES & NHDOT FUNDING

After the above project presentations were completed and CIC questions/concerns were addressed by staff, the 2 FY2016 projects that were rated, receiving the following point totals from the CIC members in attendance, plus one vote for each based on the average of the six voting members present.

#### County Road Bridge - Land Use Division received a total of 132 points.

George Hall, Chair awarded this project a total score of 20

Glenn Della-Monica – 25

Geoffrey Keegan – 17

Normand Martin – A (avg. points applied 19)

Michael Truesell – 22

Tim Malley – 12 Selectman Rick Maddox – 17

#### Melendy Road Bridge - Land Use Division received a total of 131

George Hall, Chair awarded this project a total score of 20 Glenn Della-Monica – 24 Geoffrey Keegan – 17 Normand Martin – A (avg. points applied 19) Michael Truesell – 22 Tim Malley – 12 Selectman Rick Maddox – 17

The above-cited 4 projects are described in-full, per the attached document entitled: Land Use Division FY2016 CIP. This document includes: the Cover Sheet, Project Rating Table, Tables 2 & 3 and attachments thereto and an example (abridged) grant application that was filed with NHDOT concerning the proposed "Continue Pedestrian/Bike Lane on Derry St./Rte. 102, from Towhee Dr. to Megan Dr." The other 2 grant applications also involve sidewalk enhancement projects along Rte. 111 and Rte. 3A. At the meeting, staff reported to the CIC, that if the Town decides to do a CIP in the next year or two, these sidewalk projects will, hopefully, gain the support they need to be achieved. Staff stated, "If supported and funded, these 3 sidewalk projects will connect all existing sidewalks along each of the 3 main corridors, thus, creating a 7 mile interconnected sidewalk network."

In addition to the above, at the conclusion of the meeting staff cited that he will begin the work necessary to complete the FY2016 CIP in accordance with the below schedule. "This work will also involve consultation with the Town's Finance Director, Kathy Carpentier, relative to determining how to best proceed with funding the Town's side of the Capital Improvement Projects supported in the FY2016 CIP:

June 25, 2014

Publish draft CIP for Departmental and Public comment

July 9, 2014

Public Hearing and Planning Board vote on the CIP.

August 13, 2014

Distribute final C.I.P. to Board of Selectmen, Budget Committee, C.I.P. Committee, and Planning Board.

Meeting adjourned at 9:00 P.M.

Respectfully Submitted,

John M. Cashell, Town Planner

### Capital Improvement Program

Chapter 1
Introduction and Goals
Section of the 2006 Master
Plan

#### **CHAPTER I**

#### INTRODUCTION AND GOALS

#### A. INTRODUCTION

Preparing a community master plan is one of the most important responsibilities of a Planning Board and is the basis for the ordinances, regulations and policies that guide development and growth in the Town. New Hampshire Revised Statutes Annotated 674:1-4 give the Planning Board the authority to prepare a master plan and describe the chapters, adapted to the needs of each community, that such a plan must contain. This Master Plan contains discussion and analysis of: 1) Goals; 2) Population and Housing; 3) Natural Resources; 4) Economic Development; 5) Transportation; 6) Existing Land Uses; 7) Historic Resources; 8) Community Facilities; 9) Future Land Uses.

The 2006 Master Plan is an update of the 1995 Master Plan. This plan update was developed by the Planning Board over the course of a three-year time period with the assistance of the Town staff, the Nashua Regional Planning Commission, other consultants, experts and professionals from various fields. The Planning Board met monthly from June 2002 through January 2006. All of the information provided in the Master Plan was distributed to the Planning Board and the text reflects the discussion, recommendations and conclusions from each of their meetings.

The result of the work of the Planning Board is a Master Plan that considers the Town's short and long-term housing, transportation, natural resource, economic, land use, historic, and community facility needs. The plan is intended to address short-term needs while also providing guidance as to how Hudson will function and look as it approaches buildout. A significant amount of time is devoted to the remaining resources in the Town and strategies that can be used to ensure their protection for the benefit of Hudson's residents.

#### B. GOALS

#### 1. Population and Housing

- Provide for an acceptable rate of growth in relation to the regional rate of growth and in keeping
  with the ability of the town to provide essential facilities and services.
- Incorporate available demographic and population data into evaluations of municipal services to meet the needs of current and future residents of Hudson.
- Provide reasonable opportunities for the development of housing affordable to families and individuals of all income levels.
- Maintain the existing balance between single-family, two-family and multi-family housing units.
- Encourage the use of open space developments to provide attractive, cohesive neighborhoods with adequate parks and open space, that are designed with sensitivity to the landscape.

#### 2. Economic Development

- Encourage growth in employment, particularly of high quality, higher-wage professional, managerial and manufacturing jobs, to reduce unemployment and increase economic opportunities for Hudson residents.
  - i. Provide for the growth of commercial and light industrial uses in limited areas with adequate utility services and direct access to the State destanted highway system.

- ii. Restrict the development of commercial and other non-industrial uses in industrial districts to reserve land for industrial development.
- iii. Conserve existing sewer capacity for future commercial and industrial development.
- iv. Develop a strategy for developing appropriate portions of the Merrimack River to attract shops, restaurants and other commercial enterprises that make use of the riverfront, while retaining and promoting its beauty.

#### 3. Natural Resources

- Discourage the development of wetlands, steep slopes, floodplains, prime and important farmland soils, ridgelines and other sensitive lands.
- Encourage the appropriate use, conservation and development of the Merrimack Riverfront.
- Protect existing and potential public drinking water supplies and on-site wells, groundwater, and recharge areas from harmful developments, land use practices, and roadway contamination.
- Develop watershed-based planning techniques that include intermunicipal coordination of land uses in each watershed that spans town boundaries, such as the Musquash Brook Watershed, to ensure effective management and protection of the water resource.
- Designate and provide extra protection to the Town's prime wetlands and wetlands of importance based on their location and the benefits they provide.
- Encourage land use boards to keep up to date on the status of the state instream flow rules.
- Protect surface water resources in areas of existing or anticipated increased density from additional pollutant loads and increased flow associated with development.
- Adopt a shoreline protection ordinance consistent with the state model to permit Hudson to continue to regulate shoreline development at the local level.
- Develop an inventory and monitoring system of prime habitats and areas of significant flora and fauna for future conservation.
- Protect existing Town-owned land that is not currently protected as conservation land and take
  appropriate action to ensure that these parcels are permanently protected from future
  development or any adverse activities on the parcels.

#### 4. Community Facilities

- Provide cost effective, conveniently located community facilities including schools, recreation, public safety, library, solid waste disposal, public water and public sewer facilities based upon community need and the ability of the town to pay.
- Plan for the expansion of existing community facilities to meet the existing and future needs of Town residents.
- Ensure that new development pays for its proportional share of capital facility costs.
- Encourage the preparation of an active, well publicized Capital Improvements Program (CIP).

#### 5. Transportation

- Provide for a safe and efficient transportation system based on a hierarchy of arterial, collector and local roadways.
  - i. Promote the recommendations of the Hudson-Litchfield Townwide Traffic Study, 2002.

#### Town of Hudson 2006 Master Plan Chapter I. Introduction and Goals

- ii. Advocate for development of the proposed Nashua/Hudson Circumferential highway while pursuing alternatives to highway construction in the event that the project fails to be implemented.
- iii. Revisit zoning standards and subdivision and site plan regulations to incorporate access management techniques to reduce the impact of new development and redevelopment on the circulation system.
- Encourage alternative transportation systems including provisions for bicycles, pedestrians and public transit.

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