Proposed Capital Improvement Program



2017 - 2022

Town of Northborough, Massachusetts

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John W. Coderre Town Administrator

Office of the Town Administrator

63 Main Street Northborough, MA 01532

March 3, 2016

To: Board of Selectmen, Financial Planning Committee,

Appropriations Committee

It is my pleasure to submit herewith the Proposed FY2017-2022 Capital Improvement Program (CIP), the first year of which constitutes the requested FY2017 Capital Budget. Each year, Town Meeting reviews the Proposed Capital Budget and adopts it by voting to appropriate funds for each recommended capital project. The planned acquisition of capital associated with the annual appropriation is an important component of the Town's capital plan.

As in recent years, the CIP is incorporated in its entirety as Section 9 of the annual Operating Budget document. While the physical document continues to be improved, the main focus again in FY2017 is on the financing of the projects themselves, as the Town seeks to fund more projects using available funds such as Free Cash, without incurring debt.

The Free Cash Policy

The process of preparing the CIP and the FY2017 Capital Budget has remained essentially the same in recent years. However, the Board of Selectmen adopted a Free Cash Policy

in November of 2010, which provides a recurring funding source for projects, other than municipal bonds. Interested readers are encouraged to refer to the complete Free Cash Policy on page 2 of Appendix A of this budget document, which contains the Town's comprehensive financial policies.

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In its most basic definition, Free Cash is the fiscal year-end combination of revenues that come in higher than estimated and expenditures that come in lower than budgeted. After the June 30th close of the fiscal year, the Town's Free Cash is certified by the State Department of Revenue and available for appropriation. Free Cash that was certified at the close of FY2015 (June 30, 2015) is available for use in the FY2017 (July 1, 2016) Capital Budget.

The adopted Free Cash Policy attempts to align one-time revenues with appropriate one-time expenditures, thereby minimizing the level at which recurring expenses, such as personnel, are dependent upon this unpredictable revenue source. To that end, the following are explicitly authorized

uses of Free Cash under the adopted policy:

- 1. Appropriation Committee's Reserve Fund
- 2. Limited (\$500,000) Subsidy of the Operating Budget
- 3. Contribution to the Town's Stabilization Fund
- 4. Fund Projects in the Capital Improvement Program
- 5. Extraordinary Deficits & Emergency Appropriations

Under the policy, one appropriate use of Free Cash is to fund capital projects that would otherwise incur borrowing costs associated with the issuance of debt. The financing of small capital projects or equipment is not considered a best practice for a community our size. Although perfectly legal, the Town has moved away from incurring debt for vehicles and small equipment purchases.

Bond rating agencies prefer to see Towns use a pay-as-you-go approach for smaller capital projects. The one-time nature of Free Cash makes it an excellent match for one-time capital expenditures. If for some reason sufficient Free Cash does not materialize in a given year, the Town may borrow for capital projects, or delay them, without causing immediate impact to the operating budget and related services.

The FY2017 Free Cash Plan

The Free Cash Policy represents the Town's agreed upon and principled approach to how this unpredictable revenue source will be used. The policy guides our decision-making process based upon sound financial planning practices and sets realistic and sustainable goals. The Free Cash Plan is the annual implementation of how actual Free Cash will be used during the budget process in the context of our policy guidelines, including funding of any capital projects. As

always, any use of Free Cash remains subject to Town Meeting approval and appropriation.

At the conclusion of FY2015, Free Cash was certified at approximately \$3.2 million. Of the total Free Cash, approximately \$1.8 million will be used to finance the FY2017 Capital Budget. Projects financed using Free Cash will not increase taxes or result in the payment of finance charges. The use of Free Cash is a significant funding source for FY2017 capital projects and it is likely to continue playing a significant role in funding future capital projects as well.

FY2017 Proposed Free Cash Plan

Free Cas	h Certification as of 7/1/2015	3,208,889	100.00%
FY2017	Appropriated Reserve	-175,000	5%
FY2017	Operating Budget	-500,000	16%
	Town Mtg Art—250th Celebration	-20,000	1%
FY2017	Stabilization Fund	-200,000	6%
FY2017	Capital Projects	-1,813,460	57%
Availabl	e Free Cash after FY2017 Plan	500,429	16%

In addition to funding capital projects in FY2017, the Free Cash Plan also includes a \$200,000 contribution to the Stabilization Fund. The Stabilization Fund is designed to accumulate amounts for capital and other future spending purposes, although it may be appropriated for any lawful purpose in accordance with MGL Chapter 40, Section 5B. Communities may establish one or more stabilization funds for different purposes and may appropriate into them in any year an amount not to exceed ten percent of the prior year's tax levy. The total of all stabilization fund balances shall not

exceed ten percent of the community's equalized value, and any interest shall be added to and become a part of the funds. A two-thirds vote of Town Meeting is required to establish, amend the purpose of, or appropriate money into or from the stabilization fund.

The Town Currently maintains a Stabilization Fund for emergencies and unforeseen circumstances. As of June 30, 2015, the balance in the Town's Stabilization Fund is \$3.92 million. Historically the budget had provided for an annual appropriation of \$100,000 to be added to the Stabilization Fund. However, for several years during the recession the appropriation was not possible due to financial constraints. During FY2016 the Stabilization Fund contribution was restored at \$200,000 and is planned to continue at that level in FY2017. The contribution is made possible by the positive amount of Free Cash certified on July 1, 2015.

Northborough's financial policy provides for reserves to average between 5% and 10% of the Town's operating budget. Prior to the close of FY2015, the Town's total reserves (Stabilization Fund plus Free Cash) were at 8.2%, or \$4.74 million. As the operating budget continues to grow at a rate of 3-4% annually and the Stabilization Fund's interest earnings are less than 1% annually, the relative level of reserves has been declining, despite the fact that the Town has not drawn upon the Stabilization Fund. The planned contribution of \$200,000 in FY2017 is intended to maintain reserves at approximately 7.6%.

The value of strong financial reserves was realized firsthand during FY2016 when the Town issued its share of the bonds associated with the \$25.5 million Lincoln Street School renovation/addition project. As part of the process the Town's credit worthiness was rated by Moody's Investor's Service, which provided an independent, third-party assessment of

Northborough's financial condition. The review resulted in an upgraded bond rating of Aa1 and specifically called out the Town's "healthy reserves" as a contributing factor.

It is important to note that Northborough's Free Cash Policy has been a major success story for the Town. Since FY2012 the Town has invested \$9.6 million in pay-as-you-go capital investments with no additional tax impact. That includes \$5.8 million in Free Cash and approximately \$3.8 million in other funding sources, exclusive of the \$1.8 million in Free Cash expenditures planned for FY2017. The clear result has been less tax dollars going to pay for interest on loans and a declining debt burden that has made room for debt associated with significant capital projects such as the Lincoln Street School.

Lastly, there is one Town Meeting Warrant Article that is included in the Free Cash Plan for FY2017. An Article appropriating \$20,000 in Free Cash to support the Town's 250th Celebration Committee has been included again this year to help support the birthday celebration. Twenty thousand dollars was included in the FY2016 budget as well and FY2017 is anticipated to be the final year of such requests.

Lincoln Street Elementary School Project

While no additional capital funds are being sought for the Lincoln Street Elementary School Project in FY2017, because of the project's significance, a summary and project update is included in this transmittal letter.

At the April 2012 Annual Town Meeting, \$500,000 was approved as part of the FY2013 Capital Budget to conduct a Feasibility Study of the Lincoln Street Elementary School. Following Town Meeting approval work on the study commenced, resulting in the hiring of a project management

firm (Strategic Building Solutions) and an architectural firm (Lamoureux-Pagano). The Lincoln Street School Building Committee, which includes town officials, school officials and citizens, worked in partnership with the Massachusetts School Building Authority (MSBA) to develop a preferred design solution, which was unanimously endorsed by the Building Committee, K-8 School Committee and MSBA.

At the April 2014 Town Meeting the preferred design solution was presented and approved, followed by a successful debt exclusion vote at the May 12, 2014 Town election ballot. The project is estimated to cost \$25.5 million, with MSBA providing a maximum grant of \$10.4 million. The original estimated tax impact on the average single family home over the life of the project was \$148 per year with a peak impact of approximately \$201 in FY2017. However, in light of the Town's upgraded bond rating and the advantageous interest rates received on the bonds, the average impact will be closer to \$137 per year with a \$155 impact in FY2017.

As of this writing the project is approximately 70% complete, ahead of schedule and under budget with minimal change orders. The project is anticipated to be completed in the fall of 2016.

FY2017 Proposed Capital Budget

In terms of the FY2017 Proposed Capital budget, the table on the following page represents the capital projects being brought forward by the General Town Government and Northborough K-8 Schools.

Although the detail for these proposed projects has been incorporated as Section 9 of the annual Operating Budget document, funding for all recommended FY2017 projects requires Town Meeting approval of specific Articles

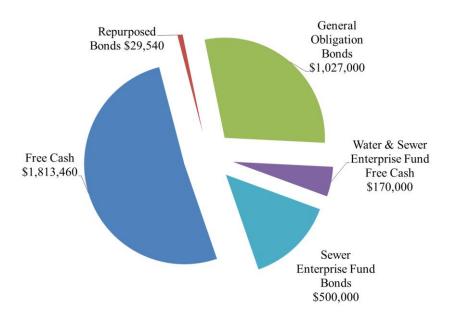
Lincoln Street School Building Project Overview

- ➤ 270 student, K-5 neighborhood school designed to comply with Massachusetts School Building Authority (MSBA) guidelines for state reimbursement
- ➤ 45,000 sf major renovation, 8,000 sf addition, capitalizing on recent roof replacement
- ➤ Site Improvements
 - 1. Separate bus and car circulation for improved flow and safety
 - 2. Emergency access route around the facility
 - 3. Connection to town sewer system
 - 4. Community use recreational fields and play areas
- School Program Improvements
 - 1. Appropriate Kindergarten suite
 - 2. Expanded Special Education facilities to support inclusion and resource programs
 - 3. New Gymnasium facility positioned for community use
 - 4. Expanded Media Center facility in former Gymnasium
 - 5. Fully renovated classrooms with wireless infrastructure
 - 6. Improved Administration, Health and Teacher Planning areas.
- > Systems and Code Improvements
 - 1. Upgrade facility for full accessibility
 - 2. Add fire suppression system
 - 3. Replacement electrical, telecommunications, security, and IT systems
 - 4. Replacement heating, ventilating and plumbing systems
 - 5. Seismic code upgrades
 - 6. Replacement windows with insulated units
 - 7. Sustainable design features to qualify for 2% additional state reimbursement
 - 8. Hazardous material abatement

contained in the April 2016 Annual Warrant. The adoption of the Capital Budget and any associated borrowing is done strictly in accordance with the Town Charter and Massachusetts General Laws.

The proposed FY2017 Capital Budget totals \$3,540,000, of which \$1,813,460 is anticipated to be funded with Free Cash (one-time revenues), resulting in no additional tax impact. In addition \$170,000 in funding will come from the Water & Sewer Enterprise Fund balance with no additional impact on rate payers. Out of the projects listed in the table to the right only \$1,027,000 of the \$2,000,000 Church Street Culvert project will be financed with debt from the General Fund and \$500,000 for the Inflow & Infiltration Study will be financed with debt paid by the Sewer Enterprise Fund. The balance of the projects listed will be paid for using available funds, resulting in no additional tax or fee impact to the residents.

FY2017 Capital Funding Sources



FY2017 Proposed Capital Budget

PROJ	ECTS BY DEPARTMENT	EXPENDITURE
Police		
	Police Cruiser Replacement	85,000
	Police Station Roof Replacement	90,000
	Police Subtotal	\$175,000
DPW:	Highway Division	
	Church Street Culvert Replacement	2,000,000
	Six-Wheel Dump Truck w/ Spreader & Plow	215,000
	Sidewalk Machine	180,000
	Roadway Improvements/Maintenance	300,000
	Highway Subtotal	\$2,695,000
DPW:	Sewer Enterprise Fund	
	Inflow & Infiltration (I&I) Study	500,000
	Sewer Enterprise Fund Subtotal	\$500,000
DPW:	Water Enterprise Fund	
	Valve Maintenance Trailer System	75,000
	One Ton Dump Truck w/Plow	95,000
	Water Enterprise Fund Subtotal	\$170,000
	TOTAL FY17 CAPITAL BUDGET	\$3,540,000

For additional information regarding each of the proposed FY2017 Capital Budget projects, please refer to the Project Detail Sheets in Part II of this document. Project Detail Sheets are also included for each project contained in the six-year CIP.

It should be clearly noted that projects listed in the Capital Improvement Program for years other than FY2017 will not be authorized at the 2016 Annual Town Meeting. Projects in these "out years" serve mainly as a guide for future planning and are subject to further review before incorporation into a future capital budget. Both the Capital Improvement Program (CIP) and the Capital Budget are developed annually in accordance with Section 6-4 of the Northborough Home Rule Charter. One of the long-term goals of the Financial Planning Committee has been to move toward funding small capital items with available funds, such as Free Cash, and avoid the expense associated with incurring debt for smaller capital items. FY2017 is the sixth year such an approach is being followed, since adoption of the Free Cash Policy in 2010.

As a reminder, Part III of this CIP document contains the Financial Planning Committee's evaluation and recommendation of the proposed capital projects. The report is an excellent reference for citizens reviewing the CIP and provides additional detail regarding how projects are prioritized. Interested readers are strongly encouraged to review the report.

Closing Comments

In closing, it is obvious that the Town continues to make great strides towards improving its Capital Improvement Program. The attached Capital Budget continues to recognize the Town's ongoing responsibility to maintain its capital facilities, equipment and infrastructure, and to make the capital investments necessary to meet the service demands of our community. The Capital Improvement Program also recognizes the Town's responsibility to limit such undertakings to a sustainable level that will preserve the fiscal integrity of the Town.

I wish to extend my sincere thanks to the Financial Planning Committee, School Superintendent, Department Heads and staff for their assistance in the preparation of this document.

Respectfully submitted,

John W. Coderre Town Administrator

INTRODUCTION

In a continuing effort to provide "user friendly" documents to our citizens, the Town has endeavored to provide a straight forward introductory section that answers the most commonly asked questions regarding capital planning in Northborough. The following questions and answers define terms, describe processes, and detail the needs and benefits of Northborough's capital planning activities.

I. What is the Capital Improvement Program?

The Capital Improvement Program (CIP) is a multi-year plan used to coordinate the financing and timing of major public improvements for the Town of Northborough. It contains a list of capital projects proposed for the Town within the next six years and reflects the recommendations of citizens, boards, commissions, and staff from each of the Town departments. The CIP identifies each proposed project and presents a summary description, estimate of cost, method of financing, and a schedule of implementation. The Capital Improvement Program constitutes a rational plan for preserving, as well as adding to the capital assets of the Town.

II. What are Capital Assets and Capital Projects?

A capital asset is a new or rehabilitated physical asset that is of a non-recurring nature, has a useful life of at least five years, and is of significant value. Capital projects are undertaken to acquire capital assets and are differentiated from ordinary repairs or maintenance of a recurring nature. Examples of capital projects include land acquisitions, construction or major improvements to public buildings, road construction, and the acquisition of large equipment. For our purposes, projects submitted must exceed \$25,000 in value for FY2017 to qualify for inclusion in the *Town of Northborough's Capital Improvement Program*.

III. What is the difference between the Capital Improvement Program and the Capital Budget?

The first year of the CIP is the proposed Capital Budget. The Capital Budget consists of those capital projects which, through the Town Meeting process and in accordance with the Town Charter, are annually approved and funded. However, projects slated for subsequent years in the CIP serve on a planning basis only, and do not receive ultimate spending authority until they are incorporated into a capital budget and approved by Town Meeting.

IV. How is the Operating Budget Related to the Capital Budget?

The Town of Northborough prepares a Capital Budget separate from the Operating Budget, yet the two are closely linked. The annual Operating Budget provides for general municipal service delivery, including personnel service costs, supplies and other contractual services, and certain capital equipment. Revenues for the Operating Budget are derived primarily from recurring taxes, intergovernmental sources, and user fees. Appropriations to the annual Operating Budget are for a single fiscal year.

In contrast, the Capital Budget is a multi-year budget designed to expend monies which add to the physical assets of the Town. Capital projects typically require expenditures which take place beyond a single fiscal year; funding with debt because of significant costs to be shared by current and future beneficiaries; systematic acquisition over an extended period of time in order to implement major operating systems or programs; and scheduled replacement or maintenance of specific elements of physical assets. Revenues for capital projects are most often derived from the sale of municipal bonds (borrowing), State & Federal Grants (when available) or can be supported by one-time funding sources, such as donations and free cash.

Notwithstanding the differences between the two, the Operating and Capital Budgets are closely interwoven inasmuch as operating costs related to capital projects need to be estimated and provided for in the Operating Budget. Many capital projects, such as the recent Library Renovation/Expansion Project or new Senior Center, have an impact on the operating costs of those facilities once reopened. Town practice is to attempt to project the net effect a capital project will have on the operating budget. Maintenance and repair costs may be lower in a new facility, but it may cost more to run the larger facility as well. In addition, since most large capital projects are financed through municipal debt, repayment of that debt becomes part of the operating budget as well as the Town's fiscal forecasting models. The necessity to incur some degree of debt in order to finance the Capital Improvement Program carries with it the burden to effectively manage that debt within the Town's financial resources.

V. Why do we need a CIP?

The CIP provides a means of coordinating and centralizing the capital project requests of various departments and agencies, thus eliminating wasteful overlap, duplication, and delay. It focuses attention on Northborough's goals and financial capability by comprehensively considering not only what capital projects Northborough needs, but equally as important, what it can afford. Additionally, the formalized process allows more time for the study of projects, encourages public discussion of proposed undertakings, and allows Town citizens the opportunity to provide input, advice and recommendations with respect to proposed projects and expenditures.

VI. How does Capital Programming save the Town money?

Investors and bond rating agencies stress the value of a CIP for a municipality seeking to borrow funds. In fact, the six-year capital plan is referenced in every Offering Statement for Town of Northborough bonds. The absence of a rational, long-term planning instrument would weigh against the bond rating assigned to Northborough by rating agencies and the result would be higher interest rates on bond issues and more tax dollars going to pay for the interest on loans. Northborough currently enjoys a superior credit rating of Aa1 by Moody's Investor Service. This places Northborough within the same rating tier and just slightly below obligations of the United States Government. Thus, very real and tangible cost savings result from the use of our Capital Improvement Program.

Another financial benefit from the capital programming process is the avoidance of poorly timed projects. Good planning can ensure that capital improvement efforts are coordinated and costly duplication is avoided. In addition, significant savings can accrue to taxpayers when major capital financing is coordinated so that bond issues are sold infrequently, but at good times during the economic cycle to take advantage of low interest rates. The development of a Capital Improvement Program ensures sound fiscal and capital planning.

VII. How are Capital Projects financed?

An annual appropriation is typically included in the Operating Budget for capital expenditures as one of several funding sources to finance select capital projects. Other financing sources for Northborough's capital projects include state and federal grants, corporate donations, free cash, and debt. The single largest source of financing for capital projects is borrowing through the issuance of general obligation bonds. Much like mortgaging a house, borrowing allows the Town of Northborough to purchase expensive capital assets and spread the costs over the useful life of the asset, thus eliminating the need to temporarily raise taxes every time a large capital asset is acquired. In addition, debt allows current and future beneficiaries to share the cost of long-term capital improvements such as new schools, libraries or roads. All borrowing is done strictly in accordance with the Town Charter and Massachusetts General Laws (MGLs).

VIII. How is the CIP developed?

The process for preparing the FY2017-2022 Capital Improvement Program and its associated FY2017 Capital Budget is essentially the same as in past years. It involves active participation by Department Heads working in conjunction with the Financial (Capital) Planning Committee. The Capital Budget is prepared in the context of a six-year determination of need by Departments, in conjunction with the Town's overall financial capacity to affordably accommodate the required debt service payments. Projected debt service payments and budgetary impacts are forecast annually to help ensure affordability and sustainability of the Capital Improvement Program.

Proposed projects are reviewed and prioritized based upon commonly used criteria such as health and safety factors, legal obligations and mandates, fiscal impact, environmental impact, community economic effects, and aesthetic and social effects on the quality of life experienced by Northborough residents. Projects are also examined in terms of their relationship to other projects, the Master Plan of Development, and their compatibility with Town-wide goals and objectives.

The process can be described as an iterative cycle with several distinct procedural steps. These steps and the approximate time frame in which they typically occur are described below. The process is also graphically illustrated in the Capital Projects Flow Chart following this introduction.

- Late Summer—Following Town Meeting after the approval of that year's Capital Budget, Departments are provided with their previously submitted six-year requests for review, update and the addition of the next sixth year. While requests generally remain the same as in the initial request, there are occasionally changed circumstances which necessitate alterations to the requests. This information is returned to the Town Administrator for General Government projects and to the School Superintendent for initial review.
- Late Autumn / Early Winter —The Financial Planning Committee meets to receive the compiled information and begin scheduling meetings with the various Departments to evaluate the projects. The Financial Planning Committee and the Town Administrator meet to review the requests of specific Departments and the needs of the overall Town organization. The preliminary debt schedules are updated and various financial forecasts completed in order to provide context to the Capital Budget as well as the six-year Capital Improvement Program.
- *January/February*—The Capital Budget is finalized within the parameters of the established funding target plus any available funds such as free cash or previously approved but unexpended bond proceeds. In making final decisions, the process includes a determination of actual needs and the prioritization of need based upon legal mandate, public safety, and the effect of deferral. Projects not approved for funding are typically deferred into the next budget year.

- *March/April*—The Proposed Capital Budget is presented to the Board of Selectmen and Appropriations Committee.
- April—The Capital Budget is presented to Town Meeting for approval; and the process begins again.

Throughout the ensuing fiscal year, Town staff monitors all the approved projects and the following fall the Financial Planning Committee reconvenes to update the CIP all over again.

IX. Why must the CIP be continually updated?

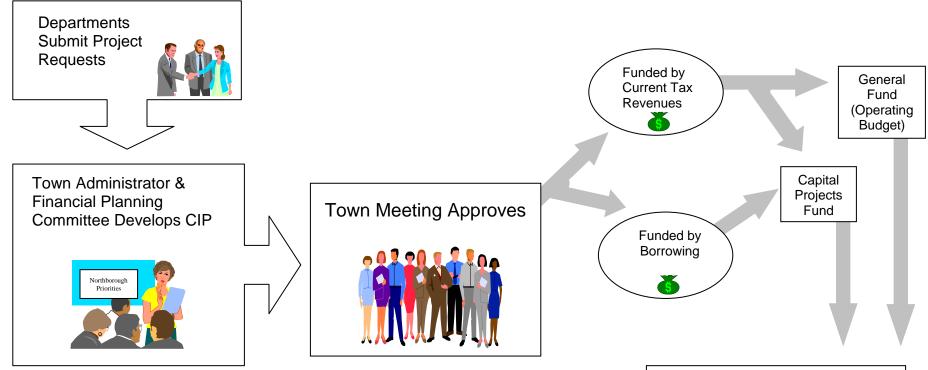
The CIP must be reviewed annually by Town departments and citizens to insure its effectiveness as a flexible, mid-range strategic plan that links the annual budget with our multi-year financial forecasts and the more static long-range Master Plan of Development. Each year, Town Meeting reviews the capital projects recommended by the Financial Planning Committee and the Town Administrator through the CIP development process and approves a Capital Budget. Unfunded projects and those slated for subsequent years in the plan are acknowledged on a planning basis only and do not receive ultimate expenditure authority until they are incorporated into a Capital Budget and approved by Town Meeting. In this respect, the CIP can be thought of as a "rolling" process because unfunded projects and those farther out in years typically move up after each year of review. However, it is important to note that each project contained in the CIP must be recommended every subsequent year and as priorities and monetary constraints change, projects may be moved up, moved back, or even eliminated from the plan. This comprehensive annual review is critical to maintaining fiscal responsibility as well as ensuring the future education, safety, and welfare of Northborough residents.

CAPITAL PROJECTS FLOW CHART

DEVELOPMENT

REVIEW & APPROVAL

IMPLEMENTATION





Part I

Capital Improvement Program Summary Fiscal Years 2017-2022



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PROJECTS BY DEPARTMENT	Page #	Source of Funds	Six-Year Total	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fire									
Fire Station Addition/Renovation Ambulance Replacement SCBA Replacement Pick-Up Truck Replacement Car One Replacement	21 22 23 24 25	2 5 6 6	6,650,000 315,000 290,000 70,000 76,000		650,000	6,000,000	315,000 290,000	70,000	76,000
Fire Subtotal			\$7,401,000	\$0	\$650,000	\$6,000,000	\$605,000	\$70,000	\$76,000
Police Police Cruiser Replacement Police Station Roof Replacement	26 27	6 6	595,000 90,000	85,000 90,000	85,000	85,000	85,000	85,000	170,000
Police Subtotal			\$685,000	\$175,000	\$85,000	\$85,000	\$85,000	\$85,000	\$170,000
Town Offices Town Offices Building Repair Project Phase 2 Town Offices Building Repair Project Phase 3	28 29	2/6 2/6	0 0		TBD	TBD			
Town Hall Subtotal			\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management Information Systems/Geographic Information GIS Aerial Photography	ation Syste	ems 6	100,000			100,000			
MIS/GIS Subtotal			\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0

DJECTS BY DEPARTMENT	Page #	Source of Funds	Six-Year Total	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
V: Highway/Parks/Cemetery Division									
Church Street Culvert Replacement	31	2/6	2,000,000	2,000,000					
Six-Wheel Dump Truck w/ Spreader & Plow	32	6	1,135,000	215,000	220,000	225,000		235,000	240,000
Sidewalk Machine	33	6	180,000	180,000					
Roadway Improvements/Maintenance	34	6	1,800,000	300,000	300,000	300,000	300,000	300,000	300,000
One-Ton Dump Truck w/Plow	35	6	440,000		100,000		220,000		120,000
Memorial Field Parking Lot Wall and Stairs	36	6	TBD		TBD				
Street Sweeper	37	2/6	455,000		220,000			235,000	
One-Ton Truck w/Chip Body & Plow	38	6	120,000		120,000				
Memorial Field Building Improvements	39	6	50,000		50,000				
Pleasant Street Culvert Replacement	40	2/6	150,000			150,000			
Fisher Street Culvert Replacement	41	2/6	500,000			500,000			
Hudson Street Drainage Improvements	42	2/6	200,000			200,000			
Stump Grinder	43	6	55,000			55,000			
Chipper	44	6	85,000			85,000			
Highway Garage Renovation/Expansion	45	2	TBD				TBD		TBD
Loader	46	2/6	230,000				230,000		
Skid Steer	47	6	80,000				80,000		
Wing Mower Replacement	48	6	75,000				•	75,000	
One Ton Pick Up Truck w/plow	49	6	70,000					•	70,000
Highway/Parks/Cemetery Subtotal			\$7,625,000	\$2,695,000	\$1,010,000	\$1,515,000	\$830,000	\$845,000	\$730,000

PROJECTS BY DEPARTMENT	Page #	Source of Funds	Six-Year Total	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
DPW: Sewer Enterprise Fund									
Inflow & Infiltration (I&I) Study	50	7	500,000	500,000					
SCADA System	51	7	700,000		700,000				
Sewer Line Inspection Camera	52	7	100,000		100,000				
Town Hall Pump Station Improvements	53	7	350,000		350,000				
West Main St. Pump Station Improvements	54	7	300,000			300,000			
Forbes Road Pump Station Improvements	55	7	400,000			400,000			
Sewer Extension - Phase 1	56	7	2,175,000				175,000	2,000,000	
Wesson Terrace Pump Station Improvements	57	7	400,000				400,000		
Church Street Pump Station Improvements	58	7	400,000					400,000	
Sewer Extension - Phase 2	59	7	200,000						200,000
Water/Sewer Garage Improvements	60	7/8	TBD						TBD
Sewer Enterprise Fund Subtotal			\$5,525,000	\$500,000	\$1,150,000	\$700,000	\$575,000	\$2,400,000	\$200,000
DPW: Water Enterprise Fund									
Valve Maintenance Trailer System	61	8	75,000	75,000					
One Ton Dump Truck w/Plow	62	7/8	95,000	95,000					
Backhoe	63	8	170,000		170,000				
Hydrant Replacement Program	64	8	375,000		65,000	70,000	75,000	80,000	85,000
Repair/Replace Water Mains and Services	65	8	2,500,000		100,000	1,100,000		100,000	1,200,000
One-Ton Service Truck w/Plow	66	7/8	110,000			110,000			
Assabet Hill Tank Rehabilitation & Site Work	67	8	TBD			TBD			
Collins Road Water Quality Improvements	68	8	400,000			400,000			
Brigham Street Water Quality Improvements	69	8	400,000				400,000		
Utility Tractor	70	7/8	80,000				•		80,000
Water Enterprise Fund Subtotal			\$4,205,000	\$170,000	\$335,000	\$1,680,000	\$475,000	\$180,000	\$1,365,000
TOTAL GENERAL GOVERNMENT (NON-SCHOOL)									
Fire Subtotal			\$7,401,000	\$0	\$650,000	\$6,000,000	\$605,000	\$70,000	\$76,000
Police Subtotal			\$685,000	\$175,000	\$85,000	\$85,000	\$85,000	\$85,000	\$170,000
Town Offices Subtotal			\$0	\$0	\$0	\$0	\$0	\$0	\$0
MIS/GIS Subtotal			\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0
DPW: Highway/Parks/Cemetery Subtotal			\$7,625,000	\$2,695,000	\$1,010,000	\$1,515,000	\$830,000	\$845,000	\$730,000
DPW: Sewer Enterprise Fund Subtotal			\$5,525,000	\$500,000	\$1,150,000	\$700,000	\$575,000	\$2,400,000	\$200,000
DPW: Water Enterprise Fund Subtotal		=	\$4,205,000	\$170,000	\$335,000	\$1,680,000	\$475,000	\$180,000	\$1,365,000
TOTAL GENERAL GOVERNMENT			\$25,541,000	\$3,540,000	\$3,230,000	\$10,080,000	\$2,570,000	\$3,580,000	\$2,541,000

PROJECTS BY DEPARTMENT	Page #	Source of Funds	Six-Year Total	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Northborough K-8 Public Schools									
Summary of School projects									
Peaslee Elementary									
**Floor Tile Replacement	72	6	40,000		40,000				
Parking Lot/Walkway Paving	73	2/6	238,000		238,000				
**Design / Fire & Sprinkler Systems	74	2/3	480,000		TBD	480,000			
Feasibility Study	75	2/3	500,000				500,000		
Architectural Fees & Construction	75	2/3	28,700,000						28,700,000
Proctor Elementary			, ,						, ,
Roof Repairs	76	6	270,000			270,000			
Zeh Elementary			,			•			
Boiler Replacement	77	6	350,000					350,000	
Melican Middle School			,					,	
Walkway Paving	78	2/6	115,000		115,000				
Feasibility Study	79	2/3	500,000		,			500,000	
Architect Fees/Renovation (est TBD in FY2023)	79	2/3	TBD					200,000	
Northborough K-8 Public Schools Subtotal			\$31,193,000	\$0	\$393,000	\$750,000	\$500,000	\$850,000	\$28,700,000

^{**}If Peaslee School renovation projects does not move forward, these projects will need to be included in the capital plan for funding.

(1) Operating Revenues (3) State Aid (5) EMS Revolving Fund Fees (7) Sewer Enterprise Fund (2) Municipal GO Bonds (4) Trust Funds (6) Free Cash / Other (8) Water Enterprise Fund	Source of Funds Legend			
(2) Municipal GO Bonds (4) Trust Funds (6) Free Cash / Other (8) Water Enterprise Fund	(1) Operating Revenues	(3) State Aid	(5) EMS Revolving Fund Fees	(7) Sewer Enterprise Fund
(b) Free Cash / Other	(2) Municipal GO Bonds	(4) Trust Funds	(6) Free Cash / Other	(8) Water Enterprise Fund



Part II

Projects Detail Sheets by Department FY2017-2022



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PROJECT DETAIL SHEET

Project Title:	FIRE STATION ADDITION/RENOVATION PROJECT (11 PIERCE STREET)	

Department: Fire/EMS Category:

Description and Justification:

This project will provide for the renovation or relocation of the existing fire station. Built in 1974, the station's bathrooms, kitchens and dormitory spaces are in need of significant expansion. The roof membrane will be approaching nineteen years old, and the sewer connection is in need of improvement. Hose storage, maintenance and self-contained breathing apparatus maintenance areas are inadequate. Increased service demands on staff and equipment have resulted in increased fire suppression, prevention and emergency medical services that need to be provided to insure that the mission of the Town's fire services is met. Previously appropriated funds in the amount of \$75,000 will be used to complete a limited Feasibility Study to better define the proposed project location, design and cost estimates.



RECOMMENDED FINANCING

	Source	Total		Estin	nated Expendit	ures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design	2	650,000		650,000				
C. Land Acquisition								
D. Construction	2	6,000,000			6,000,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$6,650,000		\$650,000	\$6,000,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: AMBULANCE REPLACEMENT

Department: Fire/EMS Category:

Description and Justification:

The Town operates an ambulance service, which is physically housed in the Fire Station at 11 Pierce Street. There are two ambulances associated with this service, a front line ambulance and a back-up ambulance. The newest ambulance operates as the front-line responder and the older ambulance serves as the back-up. Typically, a new ambulance serves for about 8 years as a front-line responder and an additional four years as the back-up ambulance before being replaced. This request seeks to replace the 2012 ambulance in FY2020, at which time the 2016 ambulance would become the back-up. Purchase of new ambulances are funded entirely by EMS user fees. The planned, regularly scheduled replacement of emergency ambulances is critical to ensuring public safety.



RECOMMENDED FINANCING

	Source					tures by Fiscal	ures by Fiscal Year		
	of	Six -Year	FY	FY	FY	FY	FY	FY	
	Funds	Cost	2017	2018	2019	2020	2021	2022	
A. Feasibility Study									
B. Design									
C. Land Acquisition									
D. Construction									
E. Furnishings/Equipment									
F. Departmental Equipment	5	315,000				315,000			
G. Contingency									
H. Other									
TOTAL		\$315,000				\$315,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

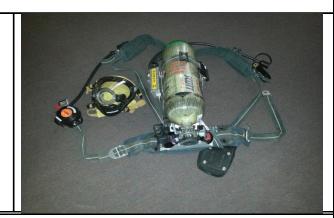
PROJECT DETAIL SHEET

Project Title:	SELF-CONTAINED BREATHING APPAR	ATUS (SCBA) REPLACEMENT

Department: Fire Category:

Description and Justification:

The request will replace the Department's 35 self-contained breathing apparatus (SCBA) units. These units provide a firefighter with breathing air, low air alarms, buddy breathing capabilities, man down warning device features, PAK-Tracker locater, face piece and voice emitter. The units are worn by firefighters during fires, hazardous materials incidents, carbon monoxide incidents and would be crucial in a weapons of mass destruction attack. The current units have been upgraded three times to the National Fire Protection Association (NFPA) standard. The units will range from 19 to 27 years old by FY2020, and will be well past their useful life. SCBA units must conform to NFPA and OSHA standards specifications. One SCBA unit is required for each seating position on the respective fire apparatus along with a spare SCBA air bottle.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendi	tures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	290,000				290,000		
G. Contingency								
H. Other								
TOTAL		\$290,000				\$290,000		

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: PICK-UP TRUCK REPLACEME
--

Department: Fire Category:

Description and Justification:

This project seeks to replace a 2011, one-ton, four-wheel-drive crew cab pick-up truck. This vehicle is used to carry personnel, equipment and bulk supplies. It is also used for performing inspections and investigations, and will be six years old at the time of the requested replacement. This vehicle responds to over thirteen hundred emergency responses and over two thousand inspections, investigations and fire alarm service calls each year. This vehicle also serves as the department's primary tow vehicle for its various trailered equipment. Funding for the annual operating/maintenance costs associated with this vehicle is included in the Department's vehicle maintenance budget.



RECOMMENDED FINANCING

	Source	Total		Estim	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	70,000					70,000	
G. Contingency								
H. Other								
TOTAL		\$70,000					\$70,000	

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: CAR ONE REPLACEMEN

Department: Fire Category: 2

Description and Justification:

This request will replace the 2015 Chevy Tahoe command/communications vehicle which is a critical component of the Incident Command System. The vehicle carries vital communications equipment; contingency and emergency plans for facilities; chemical, firefighting, terrorism, and firefighting references; the tactical command board; command vests; and fire investigation tools. The vehicle will have served its frontline life span at the time of replacement. As in the past, the replacement vehicle will be a four-wheel drive sport utility vehicle useful during wildfires and weather-related emergencies. Cost includes emergency warning devices, radios, command console, lettering and related installation charges. The command/communications vehicle provides vital communications and reference resources necessary to effective incident command.



RECOMMENDED FINANCING

	Source	Total	·	Estin	nated Expendi	tures by Fisca	ıl Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	76,000						76000
G. Contingency								
H. Other								
TOTAL		\$76,000						\$76,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: POLICE CRUISER RE

Department: Police Category:

Description and Justification:

The Police Department has 13 vehicles in total--eight patrol vehicles, three detective vehicles and two administrative vehicles (Chief & Lieutenant). This request seeks to replace police vehicles on the following schedule: two patrol vehicles each in FY2017, FY2018, FY2019 and FY2020; one patrol vehicle and one administrative vehicle in FY2021; two patrol vehicles, one detective vehicle and one administrative vehicle in FY2022. The patrol vehicles are typically used for four years/100,000 miles, while detective and administrative vehicles have about an eight year/100,000 expected useful life. Funding sought in FY2017 will provide for the purchase of two new vehicles which will replace a 2011 Ford Crown Victoria and a 2012 Ford Expedition SUV. Included in the funding request is the cost of outfitting the vehicles with equipment, including mobile data terminals.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fiscal	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	595,000	85,000	85,000	85,000	85,000	85,000	170,000
G. Contingency								
H. Other								
TOTAL		\$595,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$170,000

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title:	POLICE STATION ROOF	REPLACEMENT
1 10 000 1 1000.		

Department: Police Category:

Description and Justification:

The Police Station roof is original to the building at 211 Main Street, which was constructed in 1989. Some shingles have been compromised and lichens have infiltrated significant areas of the north face of the roof. A 2009 professional assessment was performed which indicated the roof to be in "fair" condition but nearing the end of its useful life. According to that review, a new asphalt shingle roof was estimated to cost \$90,000 and expected to last approximately 30 years, while a new metal roof was estimated to cost \$150,000 with an expected life of fifty years. At this time, a replacement asphalt roof is requested in FY2017. As with all public sector building projects the Town is required to pay the State-mandated "prevailing wage" for all labor on this project. It is estimated that the prevailing wage premium adds approximately \$37,500 to the cost of this project verses a typical private sector roof esimate.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	90,000	90,000					
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$90,000	\$90,000					

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

R PROJECT PHASE 2
8

Department: Town Administrator Category:

Description and Justification:

During FY2010 the Town used Community Preservation funding to complete an analysis of the general physical conditions and maintenance requirements of the Town Offices Building. The architectural and engineering study noted that expenses related to maintaining the aging plumbing system in the building were likely to increase as the aging pipes and fixtures continue to experience failures. The report recommends upgrading most of the piping in the building, much of which is located behind walls. Additionally, the report recommended completely overhauling all of the restrooms in the building to comply with standards under the Americans with Disabilities Act as well as further review of the building's sanitary sewer system. These upgrades are being considered as part of an assessment of the overall office space needs/potential reconfiguration of the Town Offices that is currently under review by an architect. Recommendations, a work plan and funding request are expected to be further developed and presented during FY2017.



(7) Sewer Enterprise Fund Fees

(8) Water Enterprise Fund Fees

RECOMMENDED FINANCING

Source of Funds Legend (1) Operating Revenues

(2) Municipal GO Bonds

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment	2/6	TBD		TBD				
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		TBD		TBD				

(3) State Aid

(4) Trust Funds

(6) Free Cash / Other

(5) EMS Revolving Fund Fees

PROJECT DETAIL SHEET

Project Title:	TOWN OFFICES BUILDING REPAIR PROJECT PHASE 3
110000 1100.	10 WI OTTICED BUILDING RETITION TROOPER THINDE U

Town Administrator Category: Department:

Description and Justification:

During FY2010 the Town used Community Preservation funding to complete an analysis of the general physical conditions and maintenance requirements of the Town Offices Building. The architectural and engineering study noted a number of electrical deficiencies in the building and recommended the following: electrical panel upgrades, elevator upgrades, enhancement of emergency egress lighting, improvements to exterior lighting and replacement of the building's aging generator. Additional review of the existing fire alarm panel was also recommended. . These upgrades are being considered as part of an assessment of the overall office space needs/potential reconfiguration of the Town Offices that is currently under review by an architect. Recommendations, a work plan and funding request are expected to be further developed and

presented during FY2017.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year						
	of	Six -Year	FY	FY	FY	FY	FY	FY	
	Funds	Cost	2017	2018	2019	2020	2021	2022	
A. Feasibility Study									
B. Design									
C. Land Acquisition									
D. Construction									
E. Furnishings/Equipment	2/6	TBD			TBD				
F. Departmental Equipment									
G. Contingency									
H. Other									
TOTAL		TBD			TBD				

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: GIS AERIAL PHOTOGRAPHY

Department: MIS/GIS Category:

Description and Justification:

The Town first obtained aerial photography in 1997 and then updated it 2008. In 2019 a new aerial photography project is planned to update the Town's GIS with all development activity occurring in the previous 10 years. This project will obtain new photogrammetry and update the Town's planimetric (buildings, pavement, utilities and other features visible from the air) and topographic data (elevation data in the form of 2' contours and spot elevations).



RECOMMENDED FINANCING

	Source Total Estimated Expenditures by Fiscal Year							
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other	6	100,000			100,000			
TOTAL		\$100,000			\$100,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: CHURCH STREET CULVERT REPLACEMENT	Project Title:	CHURCH STREET	CULVERT	REPLACEMENT
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Department: **DPW - Highway** Category:

Description and Justification:

This request is to fund the replacement of the Church Street culvert over Cold Harbor Brook. This structure provides a critical link between major routes such as Route 20 to the south and I-290 to the north. The current structure is in fair condition but the granite support under the sidewalk has severely cracked. Part of this project includes a widening of this portion of Church Street to accommodate an extra lane of traffic approaching the Route 20 intersection. Results of an engineering study completed in FY13 recommended temporary bracing of the structure until such time that a permanent replacement is implemented. Although the Town attempted to get the project included as part of the downtown traffic improvements, MassDOT declined the request citing this portion of the roadway as the Town's responsibility. As part of this project, the Town will investigate historical design enhancements.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	2/6	2,000,000	2,000,000					
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$2,000,000	\$2,000,000					

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: SIX-WHEEL DUMP TRUCK WITH SPREADER & PLOW

Department: **DPW - Highway** Category:

Description and Justification:

This request seeks to replace a 1997 International truck with a dump truck with a plow and spreader in FY2017. This truck has long surpassed its useful life expectancy of about 15 to 20 years. Due to the caustic nature of the salt and chemical additives used in snow removal operations, the metal bodies of these vehicles disintegrate much sooner than the total number of hours or miles would typically indicate, in spite of being washed after every salting event. The picture to the right represents an example of a similar 6-wheel dump truck. The Town currently has ten large sixwheel dump trucks with plows in service and will seek to replace an additional vehicle in each of the years FY2018, FY2019, FY2021 and FY2022.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	1,135,000	215,000	220,000	225,000		235,000	240,000
G. Contingency								
H. Other								
TOTAL		\$1,135,000	\$215,000	\$220,000	\$225,000		\$235,000	\$240,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: **SIDEWALK MACHINE**

Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace an existing 2002 sidewalk machine. This vehicle will supplement the Town's newer (2012) sidewalk machine. These vehicles are used to clear snow from various sidewalks throughout Town. As these machines age, they are prone to repeated breakdowns during heavy use and can be expected to experience increased down-time. The sidewalk machine is exposed to many different environments including corrosive materials which cause disintegration of the Public Works equipment. As the equipment ages, it requires additional mechanical and body work to keep it operational. Sidewalk machines are expected to last approximately 10 years.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year						
	of	Six -Year	FY	FY	FY	FY	FY	FY	
	Funds	Cost	2017	2018	2019	2020	2021	2022	
A. Feasibility Study									
B. Design									
C. Land Acquisition									
D. Construction									
E. Furnishings/Equipment									
F. Departmental Equipment	6	180,000	180,000						
G. Contingency									
H. Other									
TOTAL		\$180,000	\$180,000						

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: Roadway Improvements/Maintenance

Department: **DPW - Highway** Category:

Description and Justification:

During 2013 the Town completed a comprehensive Pavement Management study which assessed the condition of all the Town's roadways. According to the study, the Town's overall pavement condition index (PCI) score is 71 out of 100. The study concluded that the Town needs to invest at least \$1.1 million per year just to prevent the overall PCI from declining. The Town's budget for roadway improvements consists of State Chapter 90 transportation funds combined with local funding. Chapter 90 funds were increased to approximately \$800,000 during FY2016, which paired with the DPW budget appropriation of \$300,000, met the minimum requisite funding. However, FY2017 Chapter 90 funds were reduced to \$500,000. This request is for an additional \$300,000 in Free Cash to maintain the plan while the Town continues to lobby the State for increased future Chapter 90 funding.



RECOMMENDED FINANCING

	Source	Source Total Estimated Expenditures by Fiscal Year						
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	1,800,000	300,000	300000	300000	300000	300000	300000
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$1,800,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: **ONE-TON DUMP TRUCK WITH PLOW**

Department: **DPW - Highway** Category:

Description and Justification:

This request seeks to replace existing one-ton dump trucks with similar model trucks. The one-ton dumps are the most used equipment in the DPW fleet. The Public Works employees use these vehicles to perform their everyday tasks including moving materials and equipment that is carried and towed by these vehicles. These trucks are also paired with large 6-wheel dump trucks to perform snow removal. The useful life of these vehicles is 10 to 12 years. At the time of replacement, the existing trucks will have reached the end of their useful lives. The picture to the right represents on eof the models to be replaced.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	440,000		100,000		220,000		120,000
G. Contingency								
H. Other								
TOTAL		\$440,000		\$100,000		\$220,000		\$120,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title:	MEMORIAL FIELD PARKING LOT WALL & STAIRS RECONSTRUCTION
I TO OCC I THE.	WENTORME TREED THROUGH OF WHILE & STITLE RECONSTRUCTION

Department: **DPW - Highway** Category:

Description and Justification:

This request seeks to fund the design and construction of improvements to the spectator access and viewing area adjacent to the Memorial Field parking area. Currently the stairs are constructed of pressure-treated landscape timbers that are in poor condition and are becoming a danger to the users and spectators of the fields. Erosion has caused exposed gravel areas that also pose a risk when spectators access the fields from the parking lot. Proper spectator access, grading, loaming and seeding is required to improve this area.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	TBD		TBD				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL	-	TBD		TBD				

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: STREET SWEEPER

Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace the 2007 Elgin Pelican street sweeper in FY2018 and the 2011 model in FY2021. The useful life of a sweeper is approximately 10 years. As it ages the repairs become more costly. Using the department's two sweepers, it takes staff approximately 10 weeks to sweep the entire Town between early March and late June. If one sweeper were to go down, it would take the remaining sweeper into Fall to do it alone. Renting sweepers has not been feasible because every town needs to sweep at the same time. Additionally, the new National Pollutant Discharge Elimination Systems (NPDES) permit may require an increase in sweeping cycles.



RECOMMENDED FINANCING

	Source	Total		Estin	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	2/6	455,000			220,000		235,000	
G. Contingency								
H. Other								
TOTAL		\$455,000			\$220,000		\$235,000	

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: ONE TON TRUCK WITH CHIP BODY & PLOW

Department: **DPW - Highway** Category:

Description and Justification:

This request replaces an existing 2006 one-ton cab and chassis truck with a chip body. The truck is used to tow the chipper and leaf vacuum to perform regular maintenance and cleanup at all the Town-owned parks and properties. This truck will also have a plow to aid in snow removal operations. The picture to the right represents a similar new model chip body mounted on a cab and chassis.



RECOMMENDED FINANCING Total Estimated Expenditures by Fiscal Year Source FY FY FY FY FY of Six -Year FY 2018 2021 **Funds** Cost 2017 2019 2020 2022 A. Feasibility Study B. Design C. Land Acquisition D. Construction E. Furnishings/Equipment F. Departmental Equipment 120,000 120,000 6 G. Contingency H. Other **TOTAL** \$120,000 \$120,000

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

Project Title: MEMORIAL FIELD BUILDING IMPROVEMENTS

Department: **DPW - Highway** Category:

Description and Justification:

This request seeks to fund the rehabilitation of the building at Memorial Field. Overall the building has suffered damage through weathering as well as hits from foul balls. The vinyl siding and trim needs to be replaced with cement-board siding and new exterior doors are needed to properly secure the facility.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	50,000		50,000				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$50,000		\$50,000		_		

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: PLEASANT STREET CULVERT REPLACEMENT

Department: **DPW - Highway** Category:

Description and Justification:

This request is to fund the replacement of the Pleasant Street culvert near Church Street. The current 24" corrugated metal pipe is in poor condition and needs to be replaced. The bottom of the pipe is completely missing due to corrosion.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expenditu	ires by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	2/6	150,000			150,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$150,000			\$150,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: FISHER STREET CULVERT REPLACEMENT

Department: **DPW - Highway** Category:

Description and Justification:

This request is to fund the replacement of the Fisher Street culvert over Cold Harbor Brook. The current superstructure (structural support and decking) is in poor condition and needs to be replaced. The webbing of the steel support beams are rotted and the guardrails are in need of replacement.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expenditu	ures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	2/6	500,000			500,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$500,000	·		\$500,000			

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

Project Title: HUDSON STREET DRAINAGE IMPROVEMENTS

Department: **DPW - Highway** Category:

Description and Justification:

This request is to fund portions of the replacement of the underground drainage system on Hudson Street near Solomon Pond Road. Approximately 600 linear feet of the corrugated metal pipe drain system under Hudson Street is corroded causing failures in the roadway.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	2/6	200,000			200,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$200,000			\$200,000	·		

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: **STUMP GRINDER**

Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace the Department's 1996 Vermeer stump grinder. This piece of equipment is used to grind the stumps flush after tree removal. The picture to the right represents an example of a new stump grinder.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	55,000			55,000			
G. Contingency								
H. Other								
TOTAL		\$55,000			\$55,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: CHIPPER

Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace the Department's 2009 Brush Bandit Chipper. This piece of equipment is used to chip all limbs and trees throughout the Town including Christmas Trees and brush brought to the garage by the residents. The picture to the right represents an example of a new replacement chipper.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	85,000			85,000			
G. Contingency								
H. Other								
TOTAL		\$85,000			\$85,000	-		

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: HIGHWAY GARAGE RENOVATION /EXPANSION

Department: **DPW - Highway** Category:

Description and Justification:

This request seeks to fund the design and construction of renovations to the Highway Garage. The existing garage was built in 1984 and no longer meets the needs of the DPW. The Engineering firm Weston and Sampson recently expanded upon their 2006 feasibility study to prepare a master site plan. This study analyzed the operations and assessed the condition of the existing building to identify the most cost effective and efficient renovations and additions required to meet the needs of a consolidated DPW.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design	2	TBD				TBD		
C. Land Acquisition								
D. Construction	2	TBD						TBD
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		TBD				TBD		TBD

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title:	LOADER
r roject rine.	LUADE

Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace the 2006 John Deere loader with a newer model. At the Public Works Garage, the loader is regularly used to transfer materials, rotate the compost piles and load the spreaders with salt for snow removal operations. Off-site, it is used throughout town on various construction projects as well as during snow removal operations. The loader is exposed to many different environments including corrosive materials which cause disintegration of the Public Works equipment. As the equipment ages, it requires additional mechanical and body work to keep it operational. The picture to the right represents an example of a new loader.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	2/6	230,000				230,000		
G. Contingency								
H. Other								
TOTAL		\$230,000				\$230,000		

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title:	SKID STEER
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Department: **DPW - Highway** Category:

Description and Justification:

This request is to replace a 2006 John Deere skid steer. This piece of equipment is used regularly by the Highway Division on various roadway projects throughout Town. It is a multi-purpose vehicle with multiple attachments including a broom, road cutting saw, forks, etc. This is also used during seasonal maintenance (mulch, etc.) at various parks and municipal buildings. The picture to the right represents an example of a new skid steer.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	80,000				80,000		
G. Contingency								
H. Other								
TOTAL		\$80,000				\$80,000		

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Department: **DPW - Highway** Category: **2B**

Description and Justification:

This request is to replace the 2013 John Deere large area mower with a newer model. This mower is used at all the large, town-owned fields including the fields at the elementary and middle schools as well as the cemetery. This is the only wide area mower in the current Public Works fleet. The picture to the right represents an example of a new replacement mower.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	75,000					75,000	
G. Contingency								
H. Other								
TOTAL		\$75,000				_	\$75,000	·

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
 - CCS
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title:	ONE TON PICKUP	TRUCK WITH PLOW
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Department: **DPW - Highway** Category: **2B**

Description and Justification:

This request replaces an existing 2012 one-ton pickup truck with a similar model. Pickup trucks are the most used equipment in the fleet. The Public Works employees use these vehicles to perform their everyday tasks including moving materials and equipment that is carried and towed by these vehicles. These trucks are also paired with large 6-wheel dump trucks to perform snow removal during the winter months. The useful life of these vehicles is 10 to 12 years. The picture to the right represents a similar new model pickup truck.



RECOMMENDED FINANCING

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	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	6	70,000						70,000
G. Contingency								
H. Other								
TOTAL		\$70,000						\$70,000

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

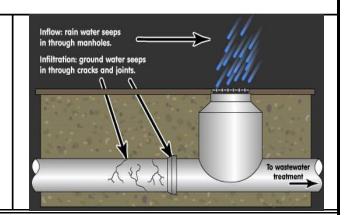
(6) Free Cash / Other

Project Title: INFLOW AND INFILTRA	LION	(1&1)
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Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund a comprehensive study and implement a detailed Operations and Maintenance Plan to mitigate inflow and infiltration (I&I) into the Town's sanitary sewer system. This inflow is from flowing stormwater and runoff making its way into manhole covers and grates. Infiltration is the seeping of groundwater into the system through pipe connections, cracks in the manholes or other small openings in the system below grade. Identifying and mitigating this I&I greatly reduces the volumes of 'clean' water sent to the waste water treatment plant for processing. As required by a State mandate, 314 CMR 12.04), municipalities need to have a detailed operations and maintenance plan to address inflow and infiltration.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design	7	150,000	150,000					
C. Land Acquisition								
D. Construction	7	350,000	350,000					
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$500,000	\$500,000	·			_	

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

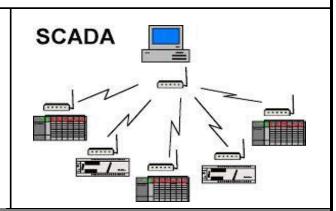
- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: SCADA SYSTEM

Department: Sewer Enterprise Category:

Description and Justification:

A fully encompassing SCADA (Supervisory Control And Data Acquisition) system is needed to monitor and efficiently manage the Town's sewer infrastructure. Remote features to ensure adequate alarm response are critical to the health and wellbeing of residents. Currently, the pump stations are not technologically connected to a main point of contact/computer. Alarms that are received are simply 'general' in nature and do not alert the on-call responder to the potential issue, creating a delay in adequate and proper mitigation. This project consists of two phases. Phase 1 entailed the completion of an assessment and design in FY2015. Phase 2, in FY2018, will consist of the construction and implementation of the system. The picture to the right is an example of how an SCADA system communicates to a main point of contact.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	700,000		700,000				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$700,000		\$700,000				

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
 - ⁄.S
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: SEWER INSPECTION CAMERA SYSTEM

Department: Sewer Enterprise Category:

Description and Justification:

This is a skid-mounted sewer camera and recorder system that can fit into the back of a pickup truck. The camera will be used to inspect sewer mains and laterals before and after jetting, locate breaks/roots or cracks in pipes, measure the defects of the pipe on screen and aid in determining causes for sinkholes in the roadway without having to excavate - saving time, materials and disruption of services.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	7	100,000		100,000				
G. Contingency								
H. Other								
TOTAL		\$100,000		\$100,000				

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: TOWN HALL SEWER PUMP STATION IM
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Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund the design and construction of improvements to the Town Hall Sewer Pump Station. This station was constructed in 1982. It receives sewage from the Town Hall as well as Centre Drive and discharges it to the gravity system in Hudson Street. This station is not adequately accessible by the staff to inspect, has confined space entry limitations and is in need of new energy efficient pumps, control system, stairs, roof, etc. The station currently has no pump failure alarm system and no backup power.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	350,000		350,000				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$350,000		\$350,000				

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Duciost Titles	- XX/ECT N/A INCCEDENCE CHXX/ED DINAD CTA TIANI INADDAX/ENAENITC
Project Title:	WEST MAIN STREET SEWER PUMP STATION IMPROVEMENTS

Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund the design and construction of improvements to the West Main Street Sewer Pump Station located adjacent to the United States Post Office on West Main Street. This station was built in 1996. It receives sewage from all the restaurants in and around West Main Street as well as the assisted living facility and the Lincoln Street Sewer Pump Station. Because of its location it receives a great deal of Fats, Oils and Grease (FOG) which causes the pumps to clog and therefor trigger alarms and subsequent staff response. The alarm/notification system and pumps are in need of upgrading to more efficient & effective systems.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	300,000			300,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$300,000			\$300,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: FORBES ROAD SEWER PUMP STATION IMPROVEMENTS

Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund the design and construction of improvements to the Forbes Road Sewer Pump Station. This station receives sewage from the industrial businesses in the Whitney Street area. This station dates back to 1978. The alarm/notification system and pumps are in need of upgrading to more efficient and effective systems.



RECOMMENDED FINANCING

	Source	Total		Estim	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	400,000			400,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$400,000			\$400,000			

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

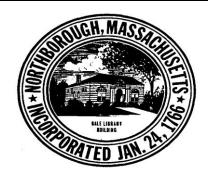
(6) Free Cash / Other

Project Title: SEWER EXTENSION - PHASE I

Department: Sewer Enterprise Category: 3D

Description and Justification:

This request is to design and construct an extension of the municipal sewer system in accordance with recommendations made in the 2007 Comprehensive Wastewater Management Plan (CWMP). The CWMP referenced sewer extensions in various areas of Town. These areas are currently under further review to verify specific septic failure rates, soil conditions and potential cost impacts of installing the sewers versus the cost of septic system replacement.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year						
	of	Six -Year	FY	FY	FY	FY	FY	FY	
	Funds	Cost	2017	2018	2019	2020	2021	2022	
A. Feasibility Study									
B. Design	7	175,000				175000			
C. Land Acquisition									
D. Construction	7	2,000,000					2,000,000		
E. Furnishings/Equipment									
F. Departmental Equipment									
G. Contingency									
H. Other									
TOTAL		\$2,175,000				\$175,000	\$2,000,000		

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: WESSON TERRACE SEWER PUMP STATION IMPROVEMENTS

Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund the design and construction of improvements to the Wesson Terrace Sewer Pump Station. This station dates back to 2000. The alarm/notification system and pumps are in need of upgrading to more efficient & effective systems.



RECOMMENDED FINANCING

	Source	Total		Estim	nated Expendi	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	400,000				400,000		
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$400,000				\$400,000		

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: CHURCH STREET SEWER PUMP STATION IMPROVEMENTS

Department: Sewer Enterprise Category:

Description and Justification:

This request is to fund the design and construction of improvements to the Church Street Sewer Pump Station located adjacent to the old Fire Station on Church Street. This station dates back to 1998. The alarm/notification system and pumps are in need of upgrading to more efficient & effective systems.



RECOMMENDED FINANCING

	Source	Total	otal Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7	400,000					400,000	
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$400,000					\$400,000	

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title:	SEWER	EXTENSION -	PHASE 2
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Department: Sewer Enterprise Category:

Description and Justification:

This request is to design and construct an extension of the municipal sewer system in accordance with recommendations made in the 2007 Comprehensive Wastewater Management Plan (CWMP). The CWMP referenced sewer extensions in various areas of Town. These areas are currently under further review to verify specific septic failure rates, soil conditions and potential cost impacts of installing the sewers versus the cost of septic system replacement.



RECOMMENDED FINANCING

	Source	Total		Estim	nated Expendi	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design	7	200,000						200,000
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$200,000					-	\$200,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: WATER/SEWER GARAGE IMPROVEMENTS

Department: Water & Sewer Enterprise Category:

Description and Justification:

This request seeks to fund the design and construction of renovations to the Water and Sewer Garage. The existing garage was originally constructed in 1964 to house only the Water Department. The Town installed sewer in the 1970's, and this expansion of departmental operations required additional staff and equipment that was not contemplated when the original garage was built. The current facility is undersized for the number of vehicles and equipment it houses. It requires security improvements and HVAC and electrical upgrades to allow the Town to maximize the benefits of new technologies, including electronic alarms and monitoring systems.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	7/8	TBD						TBD
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		TBD						TBD

Source of Funds Legend

- (1) Operating Revenues(2) Municipal GO Bonds
- (3) State Aid

(4) Trust Funds

- (5) EMS Revolving Fund Fees
- (6) Free Cash / Other
- (7) Sewer Enterprise Fund Fees
- (8) Water Enterprise Fund Fees

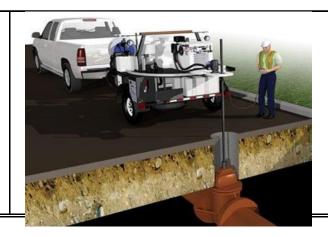
PROJECT DETAIL SHEET

Project Title: VALVE MAINTENANCE TRAILER SYSTEM

Department: Water Enterprise Category:

Description and Justification:

This request is to fund a Water Gate Valve Maintenance Trailer to satisfy a mandate by the State DEP to perform an annual gate valve exercise program throughout Town. This includes locating, inspecting, cleaning and operating/exercising each gate valve within the Town's system. Often times the valve boxes are clogged with sand, water and debris so the gate is not accessible to turn on or off. This trailer system enables the staff to clean the valve box to access the gate with a wrench. The system is then used to operate the valve where it counts the rotations (an average 12" valve has 39 revolutions to fully close), has a torque control to prevent damages to the valve and provides a safer work zone for the personnel in the street.



RECOMMENDED FINANCING

	Source	Total	Estimated Expenditures by Fiscal Year					
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	8	75,000	75,000					
G. Contingency								
H. Other								
TOTAL		\$75,000	\$75,000					

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
 - rees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: ONE-TON DUMP TRUCK WITH PLOW

Department: Water Enterprise Category:

Description and Justification:

This request is to replace a 2006 dump truck. The one-ton dumps are the most used equipment in the fleet. The Public Works employees use these vehicles to perform their everyday tasks including moving materials and equipment that is carried and towed by these vehicles. These trucks are also paired with large 6-wheel dump trucks to perform snow removal. The useful life of these vehicles is 10 to 12 years. The picture to the right represents a similar new model truck.



RECOMMENDED FINANCING

	Source	Estimated Expenditures by Fiscal Year						
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	8	95,000	95,000					
G. Contingency								
H. Other								
TOTAL		\$95,000	\$95,000					

Source of Funds Legend

- (1) Operating Revenues
- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: **BACKHOE**

Department: Water Enterprise Category:

Description and Justification:

This backhoe replaces a 2005 model that is used by the Water and Sewer Division. This backhoe is used for water and sewer projects, plowing of water and sewer stations and various other related tasks. The long reach of a backhoe is necessary to properly excavate (repair, maintain and install) water and sewer structures (pipes, manholes, valves, hydrants, etc.) throughout Town. The expected useful life of these vehicles is 10 to 12 years. The picture to the right represents an example of new similar model backhoe.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	8	170,000		170,000				
G. Contingency								
H. Other								
TOTAL		\$170,000		\$170,000				

Source of Funds Legend

- (1) Operating Revenues (2) Municipal GO Bonds
- (3) State Aid

(4) Trust Funds

- (5) EMS Revolving Fund Fees
- (6) Free Cash / Other

- (7) Sewer Enterprise Fund Fees
- (8) Water Enterprise Fund Fees

PROJECT DETAIL SHEET

Project Title: **HYDRANT REPLACEMENT PROGRAM**

Department: Water Enterprise Category:

Description and Justification:

Currently we are looking at initiating a necessary hydrant replacement program. Funding sources for this program are still being evaluated whether through the CIP or a capital line item in the operating budget. Funding a Hydrant Maintenance and Replacement Program will safeguard the public by ensuring fire hydrants are accessible and fully functioning. This project focuses on conducting condition assessments of the fire hydrants throughout Town. This assessment includes inspecting, operating and testing the mechanics of the hydrant and valve as well as evaluating the surrounding obstructions which can limit the operations of the hydrant by emergency services personnel. As a result of the inspection and condition assessment, hydrants may be removed, relocated and/or replaced. The fire hydrant replacement program improves safety by replacing aged hydrants and valves with new long-lasting equipment that offers improved flow rates.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expenditu	ures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	8	375,000		65,000	70,000	75,000	80,000	85,000
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$375,000		\$65,000	\$70,000	\$75,000	\$80,000	\$85,000

Source of Funds Legend

- (1) Operating Revenues(2) Municipal GO Bonds
- (3) State Aid

(4) Trust Funds

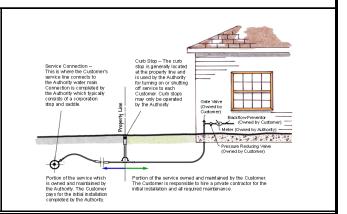
- (5) EMS Revolving Fund Fees
- (6) Free Cash / Other
- (7) Sewer Enterprise Fund Fees
- (8) Water Enterprise Fund Fees

Project Title:			PROGRAM
Project Little:	SHRVII H	RHPLA	 PRIM-RAM
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Department: Water Enterprise Category:

Description and Justification:

This request is to fund a Water Main and Service Replacement Program as part of an ongoing commitment to provide quality water services to the residents of Northborough. This project focuses on replacing old, plastic or undersized mains and services with reliable new materials which will significantly improve reliability, flow and fire protection while reducing the likelihood of breaks or leaks in the system. These improvements will positively effect the lives of the resident of Northborough for years to come.



RECOMMENDED FINANCING

	Source	Total		Estin	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design	8	200000		100,000			100,000	
C. Land Acquisition								
D. Construction	8	2,300,000			1,100,000			1,200,000
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL	,	\$2,500,000		\$100,000	\$1,100,000		\$100,000	\$1,200,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: **ONE-TON SERVICE TRUCK W/PLOW**

Department: Water Enterprise Category:

Description and Justification:

This request is to replace a 2008 utility body truck with on-board fuel tank and crane. This vehicle is used daily to perform the regular inspections and general maintenance of the Town's water and sewer system. The fuel tank is used to transport fuel to various pump stations and equipment. The crane is used to lift the sewer pumps from the wet wells for serviceability. It is a general response vehicle to all calls throughout the water and sewer division. The new truck will also be used as a plow vehicle throughout Town. The picture to the right represents an example of a replacement truck.



RECOMMENDED FINANCING

	Source	Total		Estin	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction								
E. Furnishings/Equipment								
F. Departmental Equipment	7/8	110,000			110,000			
G. Contingency								
H. Other								
TOTAL		\$110,000			\$110,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

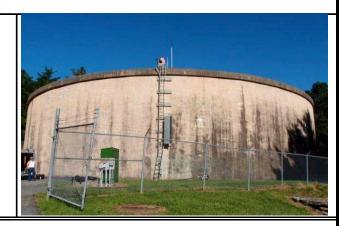
PROJECT DETAIL SHEET

Project Title: ASSABET HILL TANK REHABILITATION

Department: Water Enterprise Category:

Description and Justification:

As a result of the most recent (September 2015) tank inspection performed as required by MassDEP, some small repairs were noted which require attention. This is a 3.5 MG concrete water storage tank has seen substantial corrosion and exposure to the elements. Although free from obvious fatigue or failure some surface and/or shrinkage cracks were found on the various coatings and will require re-surfacing. Additionally, some spalling in various areas were identified which will require resurfacing and re-coating.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	8	TBD			TBD			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		TBD			TBD			

Source of Funds Legend

- (1) Operating Revenues(2) Municipal GO Bonds
- (3) State Aid

(4) Trust Funds

- (5) EMS Revolving Fund Fees
- (6) Free Cash / Other
- (7) Sewer Enterprise Fund Fees
- (8) Water Enterprise Fund Fees

Project Title:	COLLINS ROAD WATER QUALITY IMPROVEMENTS
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Department: Water Enterprise Category:

Description and Justification:

This request is to extend two existing dead-end water mains underneath the RR tracks. This connection will improve the water quality in the southwesterly portion of Town by shortening the travel distance of the water from the MWRA connection to these points.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	8	400,000			400000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL	-	\$400,000			\$400,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: BRIGHAM STREET WATER QUALITY IMPROVEMENTS

Department: Water Enterprise Category:

Description and Justification:

This request is to remove and replace an undersized 6" water main under the RR tracks on Brigham Street. Currently a 12" water main exists on both sides of the tracks and is connected by the smaller 6" main under the tracks. This upgrade will improve the fire flows and pressures in the Brigham Street area of Town.



RECOMMENDED FINANCING

	Source	Total		Estim	ated Expendit	ures by Fiscal	Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	8	400,000				400000		
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$400,000				\$400,000		

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7)
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title:	UTILITY	TRACTOR

Department: Water Enterprise Category:

Description and Justification:

This request is to replace a 2003 Kubota utility tractor. This tractor is a multi-purpose piece of equipment that is used throughout Town to clear the water and sewer cross-country easements in the summer growing months as well as spring & fall cleanups with the large blower attachment as well as clearing around hydrants during the winter months.



RECOMMENDED FINANCING Total Estimated Expenditures by Fiscal Year Source FY FY FY FY FY FY of Six -Year **Funds** Cost 2017 2018 2019 2020 2021 2022 A. Feasibility Study B. Design C. Land Acquisition D. Construction E. Furnishings/Equipment F. Departmental Equipment 8 80,000 80,000 G. Contingency H. Other **TOTAL** \$80,000 \$80,000

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

Town of Northborough K-8 Schools

Project Detail Sheets

PROJECT DETAIL SHEET

Project Title: FLOOR TILE REPLACEMENT - PEASLEE SCHOOL

Department: Northborough Public Schools Category:

Description and Justification:

This project entails the replacement of classroom asbestos floor tiles that are lifting and causing uneven surfaces. The project represents the need to maintain the current infrastructure at the Peaslee School in the event that the Peaslee School renovation project does not move forward.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendi	tures by Fisca	1 Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	40,000		40,000				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$40,000		\$40,000				

Source of Funds Legend

(1) Operating Revenues(2) Municipal GO Bonds

(3) State Aid

(4) Trust Funds

(5) EMS Revolving Fund Fees

(6) Free Cash / Other

(7) Sewer Enterprise Fund Fees

PROJECT DETAIL SHEET

Project Title: PARKING LOT/WALKWAY PAVING - PEASLEE SCHOOL

Department: Northborough Public Schools Category:

Description and Justification:

This request seeks funding to re-pave the parking lot and asphalt walkways at the Peaslee School. The asphalt area at Peaslee has become dangerous to students, staff and public that use the building. The cost to re-pave and re-stripe the Peaslee parking lot and to re-pave walkways is \$238,000.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year			
	of	Six -Year	FY	FY	FY	FY	FY	FY		
	Funds	Cost	2017	2018	2019	2020	2021	2022		
A. Feasibility Study										
B. Design										
C. Land Acquisition										
D. Construction	2/6	238,000		238,000						
E. Furnishings/Equipment										
F. Departmental Equipment										
G. Contingency										
H. Other										
TOTAL \$238,000 \$238,000										

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

Project Title: FIRE/SPRINKLER SYSTEM - PEASLEE SCHOOL

Department: Northborough Public Schools Category:

Description and Justification:

In the event that the Peaslee School renovation project does not take place, the district should be proactive in building safety systems. This project represents a life/safety issue and would fund the design and installation of a code compliant fire alarm and sprinkler system for the Peaslee School as recommended by the Fire Department. The projected costs are as follows:

- Design costs TBD
- Fire alarm system/Sprinkler System \$480,000



RECOMMENDED FINANCING

	Source	Total		Estim	nated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design		TBD		TBD				
C. Land Acquisition								
D. Construction	2/3	480,000			480,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency			-					
H. Other								
TOTAL		\$480,000		TBD	\$480,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: ADDITION/RENOVATION PROJECT - PEASLEE SCHOOL

Department: Northborough Public Schools Category:

Description and Justification:

This project entails the feasibility study, design and construction for an addition/renovation of the Peaslee School. The goal of the project is to modernize and expand Peaslee School to a condition that rectifies current deficiencies and satisfies projected future requirements for educational programs and student enrollment. A Statement of Interest (SOI) for this project will be submitted to the Massachusetts School Building Authority (MSBA) at the appropriate time. To qualify for funding, the district must follow MSBA statutes and regulations which require MSBA collaboration and approval at each step of the process.



RECOMMENDED FINANCING

	Source	Total		Esti	mated Expend	litures by Fisca	al Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study	2/3	500,000				500,000		
B. Design								
C. Land Acquisition								
D. Construction	2/3	28,700,000						\$ 28,700,000
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$29,200,000				\$500,000		\$28,700,000

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title: **ROOF REPAIRS - PROCTOR SCHOOL**

Department: Northborough Public Schools Category:

Description and Justification:

The first phase of this project is the repair and restoration of the 38,000 square feet of flat roof at the Proctor School. Included in this estimate is the application of a urethane water-proofing membrane designed to restore and increase the lifespan of the roof by a minimum of ten years. The blackened portions of the roof shown in the photo to the right represent the area to be restored in FY2016.

The second phase involves replacement of the 13,000 square feet of shingled pitched roof with a metal roofing system carrying a warranty of 50 years.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	270,000			270,000			
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$270,000			\$270,000			

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
 - CCS
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

PROJECT DETAIL SHEET

Project Title: **BOILER REPLACEMENT - ZEH SCHOOL**

Department: Northborough Public Schools Category:

Description and Justification:

The current Burnham boiler was installed as part of the Zeh School renovation in 1999. Although the boiler is only 16 years old, Burnham changed its boiler design in 2004 and replacement parts for their older models are now extremely difficult to obtain. While currently operational, a reliable and energy-efficient heating system is necessary for the Zeh School.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	ures by Fisca	ıl Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	6	350,000					350,000	
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$350,000					\$350,000	

Source of Funds Legend

(1) Operating Revenues

(3) State Aid

(5) EMS Revolving Fund Fees

(7) Sewer Enterprise Fund Fees

(2) Municipal GO Bonds

(4) Trust Funds

(6) Free Cash / Other

Project Title: WALKWAY PAVING - MELICAN MIDDLE SCHOOL

Department: Northborough Public Schools Category:

Description and Justification:

This request seeks funding to re-pave sidewalks and sealcoat the parking lot at the Melican Middle School. Re-paving of sidewalks at Melican is necessary due to the numerous cracks. Sealcoating the parking lot is necessary to maintain the \$70,000 re-paving project completed in 1998. The cost to remove and replace Melican walkways and to sealcoat and re-stripe parking lot is \$115,000.



RECOMMENDED FINANCING

	Source	Total		Estima	ated Expendit	tures by Fisca	l Year	
	of	Six -Year	FY	FY	FY	FY	FY	FY
	Funds	Cost	2017	2018	2019	2020	2021	2022
A. Feasibility Study								
B. Design								
C. Land Acquisition								
D. Construction	2/6	115,000		115,000				
E. Furnishings/Equipment								
F. Departmental Equipment								
G. Contingency								
H. Other								
TOTAL		\$115,000		\$115,000				

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other

Project Title:	ADDITION/RENOVATION PROJECT - MEI	
Project Litle	A 1 1 1 1 1 1 1 1 1 N	
III TOTECT THE		

Department: Northborough Public Schools Category:

Description and Justification:

This project entails the feasibility study, design and construction for an addition/renovation of the Melican Middle School. The goal of the project is to modernize and expand Melican Middle School to a condition that rectifies current deficiencies and satisfies projected future requirements for educational programs and student enrollment. A Statement of Interest (SOI) for this project will be submitted to the Massachusetts School Building Authority (MSBA) at the appropriate time. To qualify for funding, the district must follow MSBA statutes and regulations which require MSBA collaboration and approval at each step of the process. While a placeholder for this project has been included in FY2021, were the MSBA to move forward with the Peaslee School addition/renovation project proposed in FY2020, the Melican Middle School project would likely be pushed out.



RECOMMENDED FINANCING

	Source	Total		Estin	nated Expend	itures by Fisc	al Year		
	of	of Six -Year FY		FY	FY	FY	FY	FY	
	Funds	Cost	2017	2018	2019	2020	2021	2022	
A. Feasibility Study	2/3	500,000					500,000		
B. Design									
C. Land Acquisition									
D. Construction	2/3	TBD							
E. Furnishings/Equipment									
F. Departmental Equipment									
G. Contingency									
H. Other									
TOTAL		\$500,000	00 \$500,000						

Source of Funds Legend

(1) Operating Revenues

- (3) State Aid
- (5) EMS Revolving Fund Fees
- (7) Sewer Enterprise Fund Fees

- (2) Municipal GO Bonds
- (4) Trust Funds
- (6) Free Cash / Other



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Part III

Report of the Financial Planning Committee FY2017-2022



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Report of the Financial Planning Committee

The role of the Financial Planning Committee is to serve in a research, study and advisory capacity to the Board of Selectmen, the Appropriations Committee and the Administrative Office on short and long-range financial planning matters, and to assist in the development of a Capital Improvement Program. During Fiscal Year 2016 the Committee was composed of the following members:

Member	Appointed By	Term Expires
David DeVries, Chair	Town Moderator	April 2017
Michael Hodge, Vice-Chair	Town Moderator	April 2016
Heidi Bourque-Gleason	Northborough K-8 School Committee	April 2018
Roger Leland	Town Moderator	April 2017
Richard Smith	Appropriations Committee	April 2018
Thomas Spataro	Planning Board	April 2016

Fiscal Year 2016 Committee Activities

Meeting Date	Action
10/29/2015	Joint meeting to review Police Staffing Study
11/5/2015	Joint meeting to review Fire Staffing Study
12/17/2015	Joint Meeting with Board of Selectmen, Appropriations, K-8 School committee, for Financial Trend Monitoring System Update and Five-Year Financial Projections.
1/28/2016	Reorganization: David DeVries, Chair; Michael Hodge, Vice-Chair. FY17 Budget Update and CIP summary overview, Police capital requests.
2/11/2016	Review Department of Public Works capital requests.
3/3/2016	Meet at Highway Garage, view salt shed, fuel island, Fire capital requests.
3/10/2016	Review of draft FPC report and committee recommendations.
3/28/2016	Joint Meeting with Appropriations, Board of Selectmen – Budget Hearing

The Committee extends its appreciation to Town Administrator John Coderre and his Financial Team -- Assistant Town Administrator Kimberly Foster, Finance Director June Hubbard-Ward, and Town Accountant Jason Little -- for their input and assistance throughout the Committee's process. Special thanks to Diane Wackell and Donna McIntosh for their capable administrative support.

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Committee General Comments

The major role of the Financial Planning Committee is to review all submitted projects included in the Capital Improvement Program, comment upon their viability and make its final recommendations, which includes consideration of the guidelines set forth under the Debt Policy adopted by the Board of Selectmen in September 2000. These guidelines were developed to assist the Town in determining how much debt can safely be incurred, and are consistent with those recommended by the Massachusetts Department of Revenue, namely:

- Determine debt that can be incurred without jeopardizing credit standing and causing financial hardship;
- Incorporate affordability guidelines for expenditures;
- Include review of the Capital Improvement Program; and
- Indicate appropriate uses for and acceptable amounts of debt.

The Committee has reviewed the projects included in the six-year Capital Improvement Program at meetings held with the various departments proposing these projects. At these meetings, department heads presented information and data to justify the need, cost, and implementation timeframe for the projects. It is the strong opinion of the Committee that in order for the Capital Improvement Program to be an effective tool for managing the Town's capital investment, department heads must have confidence that their submitted projects will be implemented within the timeframe planned in the Program. The Committee recognizes that the municipal and school administrations have worked hard to anticipate capital needs, submit projects into the Plan, and distribute those projects over the six-year planning period so as to comply with the constraints of the Town's Debt Policy.

At this writing, debt service projections and metrics were not yet finalized and available to the Committee, but conservative preliminary estimates prepared by the Town Administrator indicate that the Program will be well within the guidelines set forth in the Debt Policy both for Credit Standing and Affordability.

Subject to verification of compliance with Debt Policy guidelines, and to comments and recommendations made herein for specific capital projects proposed for Fiscal Year 2017, the Committee is pleased to recommend this Capital Improvement Program as an effective tool for managing the Town's finances with respect to Capital Projects for the next six years.

CAPITAL IMPROVEMENT PROGRA

Communication, Transparency, and Best Practices in Town Finance

For the sixth consecutive year, the Committee congratulates the Town Administrator and his Financial Team for receiving the Government Finance Officers Association (GFOA) Budget Presentation Award for the Town's FY16 budget document. To be recognized, the budget document must satisfy demanding criteria which evaluate it as a policy document, a financial plan, an operations guide, and a communications tool. Further, GFOA raises the bar by requiring past award winners to demonstrate ever greater clarity and completeness in their budget document. To repeat as a GFOA award winner reflects the continuing efforts of the Financial Team to improve communication and transparency in Town finance and apply best practices to municipal budgeting.

Free Cash Policy

The FY17 budget year marks the sixth implementation of the Town's Free Cash Policy. Under this policy, one defined use of available free cash is to pay for capital projects. Examples of suitable projects include DPW and Public Safety vehicles and equipment; building infrastructure components (heating, cooling, electrical, plumbing, etc.); communication systems and office and equipment; and capital project design fees, feasibility studies, and needs analyses. In the past, the Town funded projects of this scale with debt, a practice discouraged by bond rating agencies. Under the Free Cash policy, such capital items are now funded from free cash and other available one-time revenues. Debt capacity is conserved for larger projects such as building construction and renovation, major roadway construction and repair, water/sewer infrastructure, and land acquisition for municipal use or to preserve open space.

From the \$3.2M certified free cash balance, \$1.83M is allocated to FY17 capital projects. This amount provides \$1.83M of capital investment in FY17 that will have no additional impact on the tax rate. (Note: Other proposed capital projects for FY17 are funded from general obligation bonds or through enterprise fees.)

Assuming this year's proposal is approved, more than \$7.65M of capital expenditures will have been accomplished with Free Cash over the six-year period FY 2012-2017, which otherwise would have been financed with debt. Meanwhile, the Town's component of debt service attributable to small capital expenditures has been nearly eliminated, reclaiming capacity within the Proposition 2 ½ levy limit to address upcoming capital projects of larger scale.

Capital Projects for FY2017

The Committee has reviewed the projects in the Capital Improvement Program for Fiscal Year 2017 and has prioritized as follows:

Priority	Description
1	Projects that involve correcting a current Safety or Health issue, and/or to
	meet a Federal or State legal requirement
2	Projects that are necessary to maintain the Town's current infrastructure:
	Buildings - Projects necessary to maintain existing Town buildings, not including projects to expand or modernize facilities.
	Equipment - Projects necessary to replace old existing equipment, which
	is no longer cost effective to repair with similar equipment
3	Projects that are required to increase capacity of existing facilities in
	order to accommodate the increase in growth of the Town.
4	Projects that are designed to modernize and upgrade existing Town
	facilities.

The committee considers all the capital projects proposed, and that have been in the Capital plan for many years. From those proposals, the committee recommends the capital projects below in this year's warrant articles. Committee vote shown in parentheses. Numerical votes are shown in Yes-No-Abstain order relative to a motion to recommend approval. Fewer than six total votes reflect the absence of one or more members at the time of the vote.

Planned sources of funding are noted in the comments for each project.

Municipal Departments

Project	Sponsor	Cost	Priority	Recommend Approval?
Police Cruiser Replacement	Police	\$85,000	2	YES (4-0-0)

- Replaces a 2011 Crown Victoria and a 2012 Expedition.
- Funded from free cash. No additional impact to tax rate.

Project	Sponsor	Cost	Priority	Recommend Approval?
Police Station Roof Replacement	Police	\$90,000	2	YES (4-0-0)
		-		

- Replaces a 1989 original roof.
- Funded from free cash. No additional impact to tax rate.

Project	Sponsor	Cost	Priority	Recommend Approval?
Church Street Culvert Replacement	Public Works - Highway	\$2,000,000	1	YES (4-0-0)

- Structure is failing and in need of replacement, granite is cracked and has been temporarily braced pending reconstruction.
- Funded \$1,027,000 from Municipal GO Bonds; \$943,460 from Free Cash; and \$29,540 from Repurposed Bonds

Project	Sponsor	Cost	Priority	Recommend Approval?
Six Wheel Dump Truck w/Spreader	Public Works - Highway	\$215,000	2	YES (4-0-0)
& Plow				

- Replaces a 1997 International.
- Funded from free cash. No additional impact to tax rate.

Project	Sponsor	Cost	Priority	Recommend Approval?
Sidewalk Machine	Public Works - Highway	\$180,000	2	YES (4-0-0)

- Replaces a 2002 sidewalk machine.
- Funded from free cash. No additional impact to tax rate.

Project	Sponsor	Cost	Priority	Recommend Approval?
Road Improvements & Maintenance	Public Works - Highway	\$300,000	2	YES (4-0-0)

- Funds needed to supplement the Pavement Management Plan due to FY2017 reduction in State Chapter 90 Transportation Funding
- Funded from free cash. No additional impact to tax rate.

Municipal Departments (continued)

Project	Sponsor	Cost	Priority	Recommend Approval?
Inflow and Infiltration Study	Public Works - Sewer	\$500,000	1	YES (4-0-0)

- Studies leaks and infiltration problems with Town's Sanitary Sewer System and makes construction repairs as needed.
- Funded from Sewer Enterprise Fund.

Project	Sponsor	Cost	Priority	Recommend Approval?	
Valve Maintenance Trailer System	Public Works – Water	\$75,000	2	YES (4-0-0)	
Satisfies State Mandate for valve exercise program.					

- Funded from Water Enterprise Fund.

Cost	Priority	Recommend Approval?
– Water & \$95,000	2	YES (4-0-0)
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- Replaces a 2006 dump truck.
- Funded from Water and Sewer Enterprise Funds.

Community Preservation Act Projects

Certain projects to be funded with Community Preservation Act monies may be presented at Town Meeting. Although often capital in nature, these projects are not necessarily incorporated into the Capital Improvement Plan. Nevertheless, the Financial Planning Committee, in its financial advisory capacity, strives to review projects approved by the CPC and offer its recommendations at Town Meeting. Because CPA projects do not compete for funding with Capital Improvement Plan projects, no Priority is assigned.

Project	Sponsor	Cost	Priority	Recommend Approval?
First Parish Unitarian Church	First Parish Church	\$54,000	N/A	YES (4-0-0)
Restoration				

- Funds restoration of belfry and accessibility improvements at church.
- Expenditure is in compliance with CPA requirements.

Project	Sponsor	Cost	Priority	Recommend Approval?
Future creation of affordable housing	Northborough Affordable Housing Corporation (NAHC)	\$100,000	N/A	YES (4-0-0)
T. I. I. II. MANGE	(NAHC)			

• Funds to be used by NAHC for future creation of affordable housing.

Project	Sponsor	Cost	Priority	Recommend Approval?
Community Preservation	CPC	\$46,800	N/A	YES (4-0-0)
Committee (CPC) Debt Service				

- Apply Community Preservation Act (CPA) funding to pay debt service on debt issued as a component of the FY2012 CPA Green Street land purchase for open space.
- Fourth annual installment of a five-year financing term.

Project	Sponsor	Cost	Priority	Recommend Approval?
Creation of a Town Common	Town Common Committee	\$480,000	N/A	YES (4-0-0)

 Phase I of II phases: includes acquisition of 45 West Main Street, demolition of 39 West Main Street and funding for project design and bid documents.

Respectfully submitted, Northborough Financial Planning Committee March 28, 2016

Financial Planning Committee Recommendations for FY2017 Capital Project Warrant Articles Northborough Annual Town Meeting April 2016

Article	Project	Cost	Funding Source	Priority	Vote *	Recommend Approval?
21	Police: Cruiser Replacement	85,000	Free Cash	2	4-0-0	YES
22	Police: Roof Replacement	90,000	Free Cash	2	4-0-0	YES
23	DPW: Church Street Culvert Replacement	2,000,000	Municipal Bonds/Free Cash/Repurposed Bonds	1	4-0-0	YES
24	DPW: Six-Wheel Dump w/Plow	215,000	Free Cash	2	4-0-0	YES
25	DPW: Sidewalk Machine	180,000	Free Cash	2	4-0-0	YES
26	DPW: Road Improvements & Maintenance	300,000	Free Cash	2	4-0-0	YES
27	Sewer: Inflow & Infiltration Study	500,000	Sewer Enterprise Fund	1	4-0-0	YES
28	Water: Valve Maintenance Trailer	75,000	Water Enterprise Fund	2	4-0-0	YES
29	Water: One-Ton Dump Truck w/Plow	95,000	Water Enterprise Fund	2	4-0-0	YES
37	CPA: First Parish Unitarian Restoration	54,000	CPA	**	4-0-0	YES
38	CPA: Transfer to NAHC	100,000	СРА	**	4-0-0	YES
39	CPA: Green St. Debt Service	46,800	СРА	**	4-0-0	YES
40	CPA: Town Common	480,000	CPA	**	4-0-0	YES

^{*} Numerical votes shown in Yes-No-Abstain order relative to a motion to recommend approval. Fewer than six total votes reflects absence of one or more members.

^{**} No capital project priority is assigned to CPA-funded projects.