



The Government Finance Officers Association of the United States and Canada (GFOA) has presented a Distinguished Budget Award to the Town of Barnstable for the fiscal year beginning July 1, 2013. The award is the highest form of recognition in governmental budgeting. In order to receive this award, a government unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device. This is the **thirteenth consecutive year** that the Town of Barnstable has been presented with this prestigious award.

The criterion on which the award for fiscal year 2014 was based is that which has been used as a guide in preparing the budget for fiscal year 2015. Therefore, it is my belief that the Capital and Operating budgets presented for fiscal year 2015 conform to program requirements, and I will submit them to GFOA to determine their eligibility for another award. My Staff, Mark Milne, Finance Director, and Robert O'Brien, Budget Director are to be congratulated for their parts in this and the previous twelve awards.

Thomas K. Lynch Town Manager



# The Town of Barnstable Office of Town Manager

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TO: The Honorable Members of the Town Council

FROM: Thomas K. Lynch, Town Manager

RE: FY 2015 Capital Budget and FY 2015 – FY 2019 Capital Improvements Plan

DATE: March 20, 2014

The governing regulations for the Town of Barnstable's Capital Improvement Program are encompassed in Section 6-5 of the Town Charter and state the following:

- a) Preparation. The Town Manager shall, in conjunction with any committee established for such purpose, annually submit a capital improvement program to the Town Council at least thirty days prior to the date for submission of the operating budget; unless some other time is provided by ordinance.
- b) Contents. The capital improvement plan shall include: (1) a clear summary of its contents; (2) an itemization of all capital improvements, including those of the school department, proposed to be undertaken during the next five fiscal years with supporting data; (3) cost estimates, methods of financing, and recommended time schedules: and, (4) the estimated annual cost of the operating and maintaining the facilities included.
- c) Public Hearing. The Town Council shall publish in a newspaper of general circulation in the Town a summary of the capital improvement plan and a notice stating: (1) the times and places where entire copies of the capital improvement plan are available for inspection by the public; and, (2) the date, time, and place not less than fourteen days after such publication, when a public hearing on said plan will be held by the Town Council.
- d) Adoption. At any time after the public hearing but before the first day of the last month of the current fiscal year, the Town Council shall by resolution adopt the capital improvement plan with or without amendment, provided that each amendment must be voted separately and then any increase in the capital improvement plan, as submitted, must clearly identify the method of financing proposed to accomplish this increase.

In accordance with the Town Charter, I hereby submit the Town's FY 2015 Capital Budget and FY 2015 – FY 2019 Capital Improvements Plan for your review and action. In forwarding this document, I would be remiss in not mentioning the work that went into its development by my department heads, their staff and, in particular, the members of the Comprehensive Finance Advisory Committee who spent many hours reviewing and commenting on the numerous projects submitted.

# **ELECTED OFFICIALS**

### **BARNSTABLE TOWN COUNCIL**

Jessica Rapp Grassetti, President, Precinct 7
Ann B. Canedy, Vice President Precinct 1
Eric Steinhiber, Precinct 2
Paul Hebert, Precinct 3
Frederick Chirigotis, Precinct 4
James H. Crocker, Jr., Precinct 5
William Crocker, Precinct 6
Debra S. Dagwan, Precinct 8
James M. Tinsley, Jr., Precinct 9
Sara Cushing, Precinct 10
Philip Wallace, Precinct 11
John T. Norman, Precinct 12
Jennifer L. Cullum, Precinct 13

### **BARNSTABLE SCHOOL COMMITTEE**

Margeaux Weber, Chair Stephanie Ellis, Vice Chair Chris Joyce Francis McDonald R. Patrick Murphy

### **TOWN CLERK**

Ann Quirk

### **TOWN COLLECTOR**

Maureen Niemi

# **TOWN ADMINISTRATION**

Thomas K. Lynch, Town Manager Mark S. Ells, Assistant Town Manager

#### **TOWN COUNCIL**

Barbara A. Ford, Town Council Administrator

#### ADMINISTRATIVE SERVICES DEPARTMENT

Assistant Town Manager, Director

#### **COMMUNITY SERVICES DEPARTMENT**

Lynne M. Poyant, Director

#### GROWTH MANAGEMENT DEPARTMENT

Jo Anne Miller Buntich, Director

#### POLICE DEPARTMENT

Paul B. MacDonald, Chief

#### PUBLIC WORKS DEPARTMENT

Daniel W. Santos, Director

#### REGULATORY SERVICES DEPARTMENT

Richard V. Scali, Acting Director

#### SCHOOL DEPARTMENT

Mary Czajkowski, Ed. D., Superintendent

#### **AIRPORT**

Roland W. Breault, Manager

# OTHER TOWN OFFICIALS

#### **TOWN ATTORNEY**

Ruth J. Weil, Esq.

#### FINANCE DIRECTOR

Mark A. Milne, C.P.A.

#### **BUDGET DIRECTOR**

Robert L. O'Brien

#### **TOWN TREASURER**

Debra Blanchette

### **HUMAN RESOURCES DIRECTOR**

William E. Cole

#### INFORMATION TECHNOLOGY DIRECTOR

Daniel J. Wood

#### **VETERANS AGENT**

Edward F. Merigan

#### **AIRPORT COMMISSION**

Ronald D. Persuitte, Chairman
Donald E. Megathlin, Vice Chairman
Robert L. O'Brien, Clerk
Michael A. Dunning
John T. Griffin, Jr.
Timothy R. Luzietti

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<u>Front Cover Photo:</u> Board Walk and Stewart's Creek Culvert on Ocean Street Hyannis under construction

<u>Back Cover Photo:</u> Board Walk and Culvert - construction completed

### PART I. CAPITAL IMPROVEMENTS FY 2015 – FY 2019

### A. PROJECT REQUESTS SUBMITTED

The capital projects identified by Town departments in this year's CIP process represent a total of \$16,506,658 for FY15, and a combined total of \$128,902,836 over a five-year period. Of the \$129 million, approximately \$55 million represents enterprise funds and \$74 million are general fund requests. The Capital Trust Fund's cash flow projections indicate that over the next five years approximately \$50 million will be available to finance projects from the fund; approximately two-thirds of the project submissions received this year. This assumes approximately \$20 million will be financed with cash and \$30 million with borrowing authorizations.

A spreadsheet is provided on pages 23-27 that lists the projects and their estimated costs over the following five years. Part IV of this report includes a more detailed summary of each project.

The following is a summary of the total projects by fiscal year (all funds):

FY 2015	\$16,506,658
FY 2016	\$36,950,395
FY 2017	\$35,356,158
FY 2018	\$23,916,925
FY 2019	\$16,172,700
Five year total	\$128,902,836

### **B. TOWN MANAGER RECOMMENDATIONS**

Having reviewed the scoring of projects by both my Senior Staff and the Comprehensive Finance Advisory Committee, I am recommending that the Town Council approve a total of \$16,661,735 in capital projects for FY 2015 as follows: \$9,919,310 for the General Fund program and \$6,742,425 for enterprise accounts. Funding for the general fund portion of the program consists of \$3,644,000 in Capital Trust Fund (CTF) reserves; \$741,508 from the Sale of Real Estate Special Revenue Fund, \$554,309 in transfers from closed appropriations, \$591,993 in general fund reserves, \$156,000 of Community Preservation Funds and \$4,231,500 in new borrowing authorizations. Funding for the enterprise fund programs consists of using \$1,997,225 of enterprise fund reserves and \$4,745,200 in new borrowing authorizations. \$2,157,200 is anticipated to be reimbursed from federal and state granting agencies. The grants funds received will reduce the amount of any bonds issued or the reserves used to finance the enterprise fund's capital program. The bonds issued for the enterprise fund projects are expected to be paid back with enterprise fund revenues.

The recommended projects for the Enterprise Funds are as follows:

	Enterprise Fund	Bond		
	Reserves	Issue	Grants	Total
AIRPORT:				
Runways, Taxiways & Roadway Painting	50,000			50,000
Dump Truck	3,250		61,750	65,000
Design & Construct Taxiway C	10,000		190,000	200,000
Design Runway 15-33	20,000		380,000	400,000
Design Runway 6-24	20,000		380,000	400,000
East Ramp T-Hanger Roof	100,000			100,000
Frontend Loader	32,500		617,500	650,000
Design & Construct Airport Access Road	80,175		367,950	448,125
Airport Terminal & Building Improvements	40,000		160,000	200,000
Airport Fixed Base Operations Building		1,205,000		1,205,000
Total Airport Enterprise Fund	355,925	1,205,000	2,157,200	3,718,125
SOLID WASTE:				
1 Ton Dump Truck	60,000			60,000
Backhoe	110,000			110,000
Master Plan	75,000			75,000
Total Solid Waste Enterprise Fund	245,000	-	-	245,000
WATER SUPPLY:				
Pipe Replacement & Upgrade Program	250,000	800,000		1,050,000
Well Pump Station & Treatment Plant Upgrades	200,000			200,000
New Well Exploration Program		583,000		583,000
Paint Mary Dunn 2 Tank	68,400			68,400
Water Main Upgrade	95,900			95,900
Total Water Supply Enterprise Fund	614,300	1,383,000	-	1,997,300
WATER POLLUTION CONTROL:				
Septage Building Capacity	450,000			450,000
Storage Building Generator	132,000			132,000
Plant Upgrade Study for Organic Carbon & Nitrogen	200,000			200,000
Total Sewer Enterprise Fund	782,000	_	_	782,000
	1 32/300			
Total All Enterprise Funds	1,997,225	2,588,000	2,157,200	6,742,425

The recommended projects for the General Fund are as follows:

			Fu	ınding Sour	ce		
Project Name	Transfer From Closed Appro- priations	General Fund Reserves	Capital Trust Fund Reserves	Sale of Real Estate Special Revenue Fund	СРС	Bond Issue	Total
INFRASTRUCTURE:	pridations	Reserves	Reserves	Tullu	C. C	13344	10141
Aerial Flyover & Mapping	123,618	16,382					140,000
Senior Center Parking Lot Expansion		,				290,000	290,000
Veterans Park Strategic Plan & Campus Design		50,000				·	50,000
Marstons Mills Fish Run	67,500					326,000	393,500
Design Mill Pond & Long Pond Fish Ways Improvements		42,000				-	42,000
Veterans Beach Parking Lot Rehab			85,000				85,000
McKeon Park Water & Sewer Service			55,000				55,000
Bicycle Accommodations Program			170,000				170,000
Public Roads Maintenance			3,250,000				3,250,000
Sidewalk Overlays & Guard Rail Replacement						285,000	285,000
Total	191,118	108,382	3,560,000	-	-	901,000	4,760,500
WATERWAYS:							
WATERWAYS:  Comprehensive Dredge Permit &  Strategic Plan	9,310					341,000	350,310
Comprehensive Dredge Permit &	9,310					341,000 215,000	350,310 215,000
Comprehensive Dredge Permit & Strategic Plan	9,310 <b>9,310</b>	-	-	-	-	·	
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total			-	-	-	215,000	215,000
Comprehensive Dredge Permit & Strategic Plan Blish Point Sand Management Total  MUNICIPAL FACILITIES:		-	-	-	-	215,000	215,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations			-	-	-	215,000	215,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations  Centerville Community Building Improvements		-		-	-	215,000 <b>556,000</b>	215,000 <b>565,310</b>
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations Centerville Community Building Improvements  Police Headquarters Improvements		-		-	-	215,000 <b>556,000</b> 301,500	215,000 <b>565,310</b> 301,500
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations  Centerville Community Building Improvements  Police Headquarters		100,000		-	-	215,000 <b>556,000</b> 301,500 185,000	215,000 <b>565,310</b> 301,500 185,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations  Centerville Community Building Improvements  Police Headquarters Improvements  Security Evaluation – Town Hall, School Admin Bldg, and 200 Main		100,000	-	-	105,000	215,000 <b>556,000</b> 301,500 185,000	215,000 <b>565,310</b> 301,500 185,000 288,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations  Centerville Community Building Improvements  Police Headquarters Improvements  Security Evaluation – Town Hall, School Admin Bldg, and 200 Main St	9,310			-	105,000	215,000 <b>556,000</b> 301,500 185,000	215,000 <b>565,310</b> 301,500 185,000 288,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations  Centerville Community Building Improvements  Police Headquarters Improvements  Security Evaluation – Town Hall, School Admin Bldg, and 200 Main St  Paine Black House Renovations	9,310		84,000	-		215,000 <b>556,000</b> 301,500 185,000	215,000 <b>565,310</b> 301,500 185,000 288,000 100,000 240,000 51,000
Comprehensive Dredge Permit & Strategic Plan  Blish Point Sand Management  Total  MUNICIPAL FACILITIES:  Beach House Construction/Renovations Centerville Community Building Improvements  Police Headquarters Improvements  Security Evaluation – Town Hall, School Admin Bldg, and 200 Main St  Paine Black House Renovations  Burgess House Improvements	9,310		84,000 84,000			215,000 <b>556,000</b> 301,500 185,000	215,000 <b>565,310</b> 301,500 185,000 288,000 100,000 240,000

	Funding Source								
				Sale of					
	Transfer			Real					
	From			Estate					
	Closed	General	Capital	Special					
	Appro-	Fund	Trust Fund	Revenue		Bond			
Project Name	priations	Reserves	Reserves	Fund	CPC	Issue	Total		
WATER QUALITY:									
Long Pond Centerville & Mystic									
Lake Hydrilla Remediation		75,000					75,000		
Lovell's Pond Cotuit - Alum									
Treatment	88,759	51,241					140,000		
Wequaquet Lake Fanwort Control		100,000					100,000		
Total	88,759	226,241	-	-	-	-	315,000		
SCHOOL FACILITIES:									
Early Learning Center @ Hy West						2,000,000	2,000,000		
BIS Facade & Roof Improvements				200,000			200,000		
BHS Fire, Intrusion, &									
Communication System									
Improvements				200,000			200,000		
BPS Network - Internet & Digital									
Resources				204,000			204,000		
BUE MM - Air Cond. Chiller Pipe									
Upgrades	200,000						200,000		
BPS Campus Wide Int/Ext Door									
Lock & Hardware Upgrades	34,095	53,397		12,508			100,000		
BPS Kitchen Equipment Upgrades				50,000			50,000		
BUE - Replace Heat Circulating									
Pumps				75,000			75,000		
Total	234,095	53,397		741,508		2,000,000	3,029,000		
Grand Totals	554,309	591,993	3,644,000	741,508	156,000	4,231,500	9,919,310		

### C. DESCRIPTIONS OF RECOMMENDED PROJECTS

#### ENTERPRISE FUND CAPITAL PROJECTS (Proposed projects totaling \$6,742,425)

#### AIRPORT ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects Totaling \$6,068,125)

# 1. \$50,000 FOR RUNWAY AND TAXIWAY MARKINGS AND AIRPORT-OWNED ROADWAYS ANNUAL PAINTING CONTRACT - page 49

Airport Runway and Taxiway Markings require annual operational and maintenance painting in order to meet FAA FAR Part 139 Inspection requirements to maintain the Airport FAA Certification. In addition, all Airport-owned roadways require annual maintenance painting for roadway and pedestrian safety. This project will combine both recurring painting requirements into one annual recurring contract. The Airport's runways and taxiways are subject to a lot of heavy aircraft use during the year, including snow plowing. The paint is a special FAA approved paint with imbedded reflective material to provide high visibility during reduced weather visibility and night time flight operations. The paint degrades significantly during the year and must be repainted to meet FAA specifications on an annual basis. The paint is inspected annually by the FAA as part of the annual FAA Part 139 airport certification process and must meet minimum standards. The painting is usually done prior to the late spring annual FAA inspection. The airport tried to accomplish this task "in-house" but despite their best efforts, they cannot provide the painting expertise to meet FAA standards. Contracting with an experienced airport painting company does meet the standard and saves the airport considerable manpower costs and provides a more "professional" finished product. In addition, all airport roadway markings also require annual painting as required for vehicular and pedestrian safety for similar reasons.

**Source of Funding**: Airport Enterprise Fund Reserves. Occasionally, however, MassDOT will do a statewide painting contract.

#### 2. \$65,000 FOR REPLACEMENT OF A DUMP TRUCK WITH SANDER – page 51

Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required. This project is to replace a 2000 Chevrolet F350 Diesel Dump Truck with Sander with a new dump truck with sander.

**Source of Funding:** FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%, or MassDOT ASMP funds at 80%, with 20% BMA if FAA ACIP grant funding is not available.

#### 3. \$200,000 FOR DESIGN FOR THE RECONSTRUCTION OF TAXIWAY CHARLIE - page 52

As part of the Federal Aviation Administration's (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project for design is to correct major operational aircraft ground and Runway Safety Area (RSA) deficiencies associated with taxiway Charlie and its aircraft run-up area. It will allow taxiway Charlie and the aircraft run-up area to be constructed to comply with ongoing FAA safety area

standards, and correct deficiencies within the runway approach and departure environment, including other miscellaneous related airfield improvements. The current design and operation of taxiway Charlie and the aircraft run-up area must be completed in order to comply with FAA Part 77 airspace restrictions and terminal instrument procedures (TERPS) criteria. New FAA guidance has mandated the required changes. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Charlie (C) as having a Pavement Condition Index (PCI) of 60 to 65 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires complete major rehabilitation.

**Source of Funding:** Reimbursable funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds

#### 4. \$400,000 FOR DESIGN OF RUNWAY 15-33 AND TAXIWAY ECHO RECONSTRUCTION - page 53

Runway 15-33 (circa 1985) and Taxiway Echo (circa 1980) have exceeded their pavement's 20-year design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will include the design of the full length (5,252 feet) of the runway, in place, including inpavement lighting and edge lights, and will extend the design life of the pavement for another two decades, and the reconstruction of the adjacent Taxiway Echo to the engine run-up pit, and other miscellaneous related airfield improvements. Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 15-33 has exceeded the end of its useful life and is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, aircraft damage, or a closed runway that would create winter crosswind conditions on the remaining runway. Crack sealing and crack repairs have extended its useful life until now but further deterioration poses serious safety risks that must be addressed. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows the majority of Runway 15-33 and all of Taxiway Echo as having a pavement condition index (PCI) of 54 to 66 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires major rehabilitation.

**Source of Funding:** Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%)

#### 5. \$400,000 FOR DESIGN OF RUNWAY 6-24 RECONSTRUCTION - page 55

Runway 6-24 has exceeded its pavement's 20-year (circa 1991) design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will provide for the design of the reconstruction of the full length (5,425 feet) of the runway, in place, including in-pavement lighting and edge lights, and will extend the design life of the pavement for another two decades, and will also include other miscellaneous related airfield improvements. Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 6-24 will have exceeded its useful life by 2017, at which time it is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, and potential aircraft damage. Crack sealing and crack repairs have extended its useful life until now but further deterioration poses serious safety risks that must be addressed. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows the majority of Runway 6-24 as having a pavement condition index (PCI) of 54 to 73 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires major rehabilitation.

**Source of Funding:** Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

#### 6. \$100,000 FOR DESIGN AND REPLACEMENT OF THE EAST RAMP T-HANGAR ROOF - page 56

This project provides for the design and replacement of the roof on the circa 1960's era East Ramp T-Hangar that has reached the end of its useful life. The existing metal roof continues to rapidly deteriorate with numerous leaks throughout the building that are patched as needed. The East Ramp T-Hangar, despite its age, provides the only Airport-owned hangar spaces to accommodate the needs of general aviation at the Barnstable Municipal Airport. In addition, the BMA maintains a waiting list for T-hangar space that fluctuates between 25 and 27 aircraft owners waiting for space, and projections for the future of General Aviation at the BMA forecasts an additional demand for hangar space. Revenues generated by the continued rental of the bays will help offset costs of construction and maintenance.

**Source of Funding:** Airport Enterprise Funds. Not eligible for MassDOT AD ASMP funding assistance.

#### 7. \$650,000 FOR REPLACEMENT OF A FRONT END LOADER – page 57

Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 1985 Clark Front End Loader with a new loader.

Source of Funding: FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%

# 8. \$448,125 FOR PERMITTING, DESIGN AND PHASE 1 CONSTRUCTION OF ACCESS ROAD ON EAST SIDE OF AIRPORT – page 58

This proposed two phase project will provide an Airport access road on the East side of the airfield from the current Gate Mike (M) to the limit of future growth in this area and to existing buildings located on the East Ramp. Phase 1 of the project will extend the access road and security fence to the north side of the northernmost existing hangar site. Phase 2 of the project will extend the access road, security fence and utilities to the limit of future growth in the area. The proposed project will include the installation of approximately 2,500 linear feet of pavement and security fence in two approximately equal phases. Phase 1 will incorporate existing utilities, and phase 2 will require the extension of utilities to serve potential future hangar buildings as may be permitted. Completion of the proposed project will be in concert and compliance with the pending completion of the Development Agreement between the Airport and the Cape Cod Commission, and the pending Airport Master Plan. The proposed redevelopment and proposed educational program will remain in compliance with the Airport cap on allowed hazardous materials and be in consonance with concerns expressed by the Town of Barnstable Growth Management Department and Water Department. The success of the educational program will positively affect growth in the area, local businesses, and will, in and of itself, assist with the attraction of other aviation related activities to the region that would either benefit from, or assist with, the program itself; and provide the opportunity for further airport development to assist the Airport Commission's stated goal to increase and diversify revenue potential.

**Source of Funding:** Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%) for the security fence; and MassDOT ASMP (80%) and BMA Enterprise Funds (20%) for the design and road construction. Additionally, potential betterments, impact fees, user fees, development fees, and connection fees, will be developed.

# 9. \$200,000 FOR DESIGN AND CONSTRUCTION OF IMPROVEMENTS TO THE AIRPORT PASSENGER TERMINAL AND RESCUE AND FIRE FIGHTING BUILDING – page 59

The new Airport passenger terminal is a fully operational structure, built on a limited budget, and is in need of new additional enhancements to ensure that we continue to operate a safe, comfortable and efficient facility for the benefit of our customers — whether they are passengers on our air carriers, or tenants that operate within the new terminal, or employees of the airport. In addition, the Airport Rescue and Fire Fighting Building (ARFF) is over 20 years old and is in need of various repairs and upgrades to be determined by a complete engineering and architectural review that should be completed in FY2014. The funds appropriated in FY2012 and FY2013 are insufficient to accomplish all previous goals.

The ARFF building structural and system review has commenced and will become the basis for a new long range preventative maintenance and capital plan for the structure; however, several building systems have already failed and were replaced with Operating Capital funds in FY2013, and other failing systems will be replaced in FY2014 under last year's project. There is more to do.

During the design and construction phases of the new passenger terminal, many items in the original design were either eliminated or reduced in size in order for the project to remain within budget. This included such items as a baggage carousel, exterior canopies, extended ticketing baggage belt, polished concrete instead of terrazzo floors, brick exterior siding instead of terra cotta wall cladding, elimination of an expensive landscape irrigation system, and so forth. Some of these items will never be replaced; however, this annual project is to continuously review the status of the facility, and to correct system deficiencies identified in the new structure. Items to be carried over for FY 15 include the design of a new baggage carousel, a new flight information display system and a new lighting control system. New system requirements for FY15 include a terminal heating humidification system.

**Source of Funding:** For FAA and MassDOT eligible issues, reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%); potential increase in Passenger Facility Charges (PFCs). MassDOT ASMP program grants would be 80% reimbursable. For ineligible items, full cost would be borne by the Airport Enterprise Fund Reserves.

# 10. \$1,205,000 FOR DESIGN AND CONSTRUCTION OF AN AIRPORT FIXED BASE OPERATIONS (FBO) BUILDING – page 60

This project involves the design, permitting and construction of a new Fixed Base Operations (FBO) facility to be manned and operated by the Airport. The new facility will either be an addition to the existing Aircraft Rescue and Firefighting Building (ARFF) or a new stand alone building on a location to be determined on the East Ramp. The estimated size of the building/addition is approximately 2,500 square feet, single story, wood frame, asphalt shingle roof structure. The FBO facility will provide general aviation passenger lounges; pilot and crew rest areas; flight planning capability; kitchen and catering food storage areas; bathrooms; office spaces; a general reception area and waiting area; and other services as needed. In accordance with a recently completed Environmental Impact Report approved by MEPA, and a soon to be completed Development Agreement with the Cape Cod Commission and the Town of Barnstable, the facility will also be required to connect to the Town sewer system regardless of its location. As a result of Airport Commission strategic planning, and customer requests for enhanced services for general aviation aircraft, including corporate and charter jet services, it has been determined that the Airport must provide enhanced high quality facilities and services to generate better customer relations and meet demands, better pilot and passenger services, and better business management in order to retain and increase general aviation business and revenues for the airport. It has been determined

that such a facility should be constructed on the East Ramp and should either be an addition to the existing Aircraft Rescue and Firefighting Building (ARFF), or a new dedicated building — both of which should have airside and landside access, which may require moving of the airport fences and security systems. A complete architectural and engineering review of the ARFF Building will be completed in FY2014; and an airport consultant will complete research on demand and required facilities at the airport in FY2014.

**Source of Funding:** Not eligible for FAA reimbursable funding. Potential MassDOT ASMP program grants would be 80% reimbursable. For ineligible items, full cost would be borne by the Airport Enterprise Funds.

#### SOLID WASTE ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects Totaling \$245,000)

#### 1. \$60,000 FOR REPLACEMENT OF AN EXISTING ONE-TON DUMP TRUCK – page 77

This request is for the purchase of a new one ton dump truck as a replacement for the existing 1997one-ton dump truck, which has been used at the Solid Waste Facility and for snow and ice removal for 15 years. It has failed inspection due to rot in the frame. In addition, the break system is failing, the transmission is showing signs of imminent failure, the injector pumps appear to be failing, and the body is rotting out. The truck is a vital piece of equipment and is constantly used to move debris, tools and employees around the facility; as well as for snow and ice operations in winter.

Source of Funding: Solid Waste Enterprise Fund Reserves

#### 2. \$110,000 FOR REPLACEMENT OF EXISTING BACKHOE - page 78

This request is for the purchase of a new four wheel drive backhoe as a replacement for the existing 1996 two wheel drive backhoe with 8,000 service hours. The latter has become a maintenance issue with failing components, corrosion, and leaking fluids. The backhoe is used constantly to help maintain the facility. It plows snow in winter; moves leaves, manure, and compost; clears swales for water drainage; the hoe is used to compact the trash containers; and it acts as backup for loading demolition and metals when the main loader is down or performing other tasks. It also assists in DPW emergency calls as needed - such as downed trees, objects in road, etc.

Source of Funding: Solid Waste Enterprise Fund Reserves

#### 3. \$75,000 FOR THE PLANNING AND DESIGN OF A WASTE MASTER PLAN – page 79

This request if for a site master plan which recommends the appropriate location of structures, improves traffic flow, and increase efficiency of operations. In addition, funding has been included to make badly needed near-term facility repairs. This program will focus on improving life safety systems, exterior wall and roof skin replacement, HVAC upgrades, interior improvements and code issues. This plan is intended to look at the facility comprehensively; and develop the most efficient layout, building requirements, etc. of the facility. The Town can then make incremental improvements/additions to the facility knowing that the end results have been thought through. The alternative is a piece-meal approach, which may result in less than ideal layout and operations.

**Source of Funding:** Solid Waste Enterprise Fund Reserves

#### WATER SUPPLY ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects Totaling \$1,997,300)

#### 1. \$1,050,000 FOR A PHASED WATER PIPE REPLACEMENT AND UPGRADE PROGRAM – page 80

This is a continuation of a 30 year, phased, pipe replacement and upgrade program for the Hyannis Water System; as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. This program is in addition to the routine maintenance and repair program to be performed by the contracted water system operator. The proposed capital budget for this pipe replacement and upgrade program is \$1,050,000 per year, and includes a capitally funded water works Project Manager to oversee and implement this program. This continuing project will ensure the long term ability of the Hyannis Water System to provide sufficient drinking water and fire readiness protection for all of its customers.

Source of Funding: Water Supply Division Enterprise Fund Reserves and Bond Issue

# 2. \$200,000 FOR WATER SUPPLY WELLS, PUMP STATIONS, AND TREATMENT PLANT REPAIR AND UPGRADE PROGRAM – page 81

This project request is a continuation of the repairs and upgrades program started in FY2007. With the exception of the Straightway well #2, all of the wells were constructed in the early to mid-1970s. The prior year's monies were used to install emergency generators, lighting, and fencing and implement pavement improvements. Starting in FY 2014, the Hyannis Water Board approved the recommendation to implement a structured rehabilitation program dealing with major facility components needing upgrades or replacements. These facility components include: buildings, process control equipment, safety & security equipment, and electrical equipment.

**Source of Funding:** Water Supply Division Enterprise Fund Reserves

#### 3. \$583,000 NEW WELL EXPLORATION PROGRAM - page 82

This request is for the second of four phases of the on-going new well exploration program with the permitting, designing and construction of two or more new wells for the Hyannis Water System. The first phase consisted of exploratory test wells, environmental notifications, evaluations and recommendations. This second phase will deal with DEP new source approvals, 8" test wells construction, and 5 day pumping tests. The third phase in FY 2016 will consist of the design and permitting of the new well buildings and appurtenances with all environmental impact reporting requirements. The fourth phase will begin the construction phase. Recent water quality study results indicated that three of the DPW's eleven wells have water quality issues (iron and manganese) that cannot be addressed with our current treatment system. In addition, the Mary Dunn 4 well is under the influence of surface water and can't be used. As a result, four of the eleven wells need to be replaced, or have additional treatment added to them.

Source of Funding: Bond Issue

# 4. \$68,400 DESIGN FOR PAINTING AND REPAIR OF THE LARGE WATER TANK, MARY DUNN 2 - page 83

This request is for design funding for rehabilitation, upgrades, and painting of the interior and exterior large Mary Dunn #2 water tank. In addition, repairs are needed for the security fencing, gates and access road. This project was recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. A detailed evaluation was done in August 2013 by Haley & Ward Engineers based on inspections by Merithew/Utility Services Corporation which confirmed this recommendation. Construction is planned for FY 2016.

**Source of Funding:** Water Supply Division Enterprise Fund Reserves

# 5. \$95,900 WATER MAIN UPGRADE, BARNSTABLE ROAD (MAIN STREET TO WINTER STREET) - page 84

This project request is for design funding for the upgrade of the water main on Barnstable Road from Main Street to Winter Street with approximately 3,200 feet of new cement lined, ductile iron pipe water main; and include new water gate valves and fire hydrants. Construction funding will be requested in FY 2016.

**Source of Funding:** Water Supply Division Enterprise Fund Reserves

# WASTE WATER POLLUTION CONTROL ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects Totaling \$782,000)

#### 1. \$450,000 FOR A SEPTAGE BUILDING CAPACITY EVALUATION - page 85

This request is for funding to perform an evaluation of how the Water Pollution Control Facility (WPCF) handles its sludge, the facilities it uses to do so, and its ability to handle additional sludge in the future with the expected increased flows. It will also provide funding to begin design. Currently, the WPCF thickens its sludge to approximately 5% solids and trucks it off Cape Cod to a disposal facility. With rising fuel prices, this has increasingly become a very expensive operation. Technology exists that could dewater the sludge to approximately 25-30% solids, thus significantly decreasing the costs to dispose of these byproducts. To do this, the existing facilities would need to be reconfigured. The Septage Building, where the solids are currently processed, was designed in the late 1980s and built in 1990. It is at the end of its design life and needs an upgrade. The building processes over 12,000,000 gallons of sludge a year, and approximately 11,000,000 gallons of septage a year. The mechanical equipment, piping, and structure all need to be evaluated and assessed for future operations and expected increased flows. This project would involve hiring qualified consultants to evaluate the existing structure, look at the available technology/process options to handle/dispose of sludge, and make recommendations as to how best to upgrade the facility to increase operational efficiency and reduce annual costs. These recommendations, if approved, would then become designs and ultimately lead to an upgrade of the solids handling facilities.

**Source of Funding:** Water Pollution Control Enterprise Fund Reserves

#### 2. \$132,000 FOR DESIGN & CONSTRUCTION OF A GENERATOR STORAGE BUILDING – page 87

This request is for the Design and Construction of secure structure to store the Water Pollution Control Facility's portable generators. The Water Pollution Control Division has five large portable generators. These need to be available for use at a moment's notice to provide emergency power for the wastewater collection system's pump stations. These generators are a piece of the Town's emergency response/power outage response capability, and represent a significant investment. They should be stored in a secure and dry area to be ready for use. Currently the generators are stored outside in poor conditions.

**Source of Funding:** Water Pollution Control Enterprise Fund Reserves

# 3. \$200,000 FOR PLANT UPGRADE TO CONTROL TOTAL ORGANIC COMPOUNDS (T.O.C.) AND TOTAL NITROGEN (TN) EFFLUENT – page 88

This Project will evaluate, make recommendations, and ultimately design and construct improvements to the Water Pollution Control Facility (WPCF) to meet new Commonwealth of Massachusetts effluent discharge requirements. The State has recently decreased the allowable limit of TOC discharged into a Drinking Water Zone II to 3 mg/l. The WPCF's discharge is in a Zone II. TOC Effluent Limit of 3 mg/l is a State regulation, but is not currently enforced. However, conservation groups are initiating lawsuits that are expected to result in State enforcement. The Town must be prepared to comply with this State regulation or face the potential of costly fines. Further evaluation and design will occur in FY 2016 followed by construction in FY 2017-2019.

**Source of Funding:** Water Pollution Control Enterprise Fund Reserves

#### GENERAL FUND CAPITAL PROJECTS (Proposed projects totaling \$10,029,310)

#### ADMINISTRATIVE SERVICES GENERAL FUND CAPITAL PROJECTS (Totaling \$140,000)

#### 1. \$140,000 AERIAL FLYOVER & MAPPING UPDATE - page 89

The purpose of this project is to update the current maps in the Town's Geographic Information System. These GIS "base maps" depict features such as roads, buildings, parking lots, water bodies, vegetation, and topography. The maps were originally produced through a process called photogrammetry from aerial photographs taken in 1989. In keeping with a planned update interval of 6-7 years, subsequent aerial flyovers were completed in 1995, 2001, and 2008. The goal of this project is to update the GIS base maps during FY2015. The process of updating the maps is divided into two major portions: aerial photography and digital map compilation. The first portion includes the aerial flight itself, and the processing of aerial images to produce map-accurate aerial photos. The second portion involves using the processed aerial photos to update the GIS maps. Essentially, new map features such as buildings are traced, or "compiled" from the aerial photographs onto a digital map. In past years, the Town has undertaken both portions of the process: aerial photography and map compilation, on our own. This year, an opportunity has arisen to take part in a regional aerial flyover in conjunction with Barnstable County, the US Geological Survey, and a consortium of other Massachusetts towns known as the MassOrtho project. The Town has already agreed to take part in this regional project which will cover the first part of the process: aerial photography and image processing. The purpose of this CIP request is to leverage the results of the regional project and complete the second portion of the process - digital map compilation. Due to the cost savings from the regional aerial photography, the Town will be able to complete both phases of the project for considerably less money than in years past.

**Source of Funding:** \$16,382 in Capital Trust Fund reserves and \$123,618 balance remaining in prior approved and completed capital projects

#### POLICE GENERAL FUND CAPITAL PROJECTS (Totaling \$288,000)

#### 1. \$288,000 FOR IMPROVEMENTS TO POLICE HEADQUARTERS – page 117

The Police Department facility is one of the most heavily used buildings the town operates. Utilized 24/7, the building needs more attention and maintenance and repairs than any facility. To keep this building from degrading in function or operation, these improvements are necessary. This building will need to service Barnstable for a very long time into the future. The Police Department facility was constructed over 30 years ago. The FY 2015 appropriation will address the following items:

- Replacement of outside entry doors at rear of building
- A new secure exit way for discharge from the Booking Area without passing through Dispatch
- New prisoner intake counter and painting of area
- Replace carpeting in administrative offices and other spaces on 2<sup>nd</sup> floor
- Lobby interior renovation including front entry system with automatic doors and window replacement.

Source of Funding: Capital Trust Fund Bond Issue

#### COMMUNITY SERVICES GENERAL FUND CAPITAL PROJECTS (Totaling \$2,051,310)

#### 1. \$301,500 FOR BEACH HOUSE DESIGN AND CONSTRUCTION/RENOVATION - page 92

This project would fund the improvements at the Town's beach bath houses. This multi-year project is a continuation of a beach program to keep bath houses updated on the interior & exterior, and be fully operational. In FY 2015, this funding will provide design fees through contract documents, permitting, cost estimates and bid documentation for the proposed new Craigville Beach bathhouse. Any remaining funds after the design is complete will be allocated to the construction phase of this project.

**Source of Funding:** Capital Trust Fund Bond Issue

# 2. \$290,000 FOR CONSTRUCTION OF THE BARNSTABLE SENIOR CENTER PARKING LOT EXPANSION — page 93

Currently the size of the existing lot is too small to accommodate the additional parking needed at many of their events. With the increase in participants in Senior Center activities, finding parking is difficult for the elderly citizens. With poor weather conditions and many events occurring in the evening, it is important to have good smooth pavement, adequate parking and lighting so that the liability to the Town is well managed. The FY 2014 Capital Improvement Program funded the design of the parking lot expansion.

**Source of Funding:** Capital Trust Fund Bond Issue

#### 3. \$50,000 FOR VETERANS PARK STRATEGIC PLAN AND CAMPUS DESIGN - page 95

This is a request for funds to hire a qualified consultant to work with various constituent groups in Town (public and private) to create a strategic plan for Veterans Park. After that plan has been approved, the funds would also be used to translate that plan into a preliminary design for the entire facility that the Town can then implement over time, and a final design for the new playground. As currently laid out, Veterans Park serves three distinct functions. It is a picnic area for beachgoers, it has a playground for young people, and it has a memorial area for reverence and reflection. The playground has reached the end of its useful life and needs to be completely replaced. The picnic area has some new tables, but may not be located in the best area on the property for the use. The Town

has military related memorials spread across Town, many of which are ignored by the public, and some of which need to be relocated (for example, the memorials currently located at the VFW building). It may be logical to relocate these to the park, but a memorial plot plan does not exist to inform DPW as to the appropriate location to place them. The Town is also lacking that one space where it can focus its attention during events such as Memorial Day, Veteran's Day, 9/11, etc. The plan is to look holistically at the entire property. Can it better provide a place for resident/visitor contemplation, celebration, commemoration, and recreation? Do these functions have to be physically separated? Can it be designed in such a way to complement the JFK memorial experience that is enjoyed by many visitors to Barnstable, and serve as an additional reason to visit Hyannis?

Source of Funding: Capital Trust Fund Reserves

# 4. \$350,310 FOR TOWN WIDE COMPREHENSIVE DREDGE PROGRAM AND COMPREHENSIVE PERMIT – page 96

This request is twofold: 1. To develop a strategic plan for dredging that establishes dredge reoccurrence intervals. This will allow the DPW to become proactive vs. reactive to dredging requirements; and allow the department to reasonably predict when dredging will be required for a given water body and plan and budget for the same. It is expected that the creation of the plan will include a review and compiling of all existing information from past permits and studies concerning dredging efforts; review of the use, and potential boat traffic (quantity, draft depths needed, etc.), of that particular channel; review of the scientific conditions at each river/harbor; develop predicted timelines for dredge reoccurrence; conduct sampling of sediments at each site to help predict the potential disposal requirements for dredge spoils from that particular site. All of this will be synthesized into a report that can be used as a guidance document for the DPW for years to come. And, 2. To develop and submit an application for the Comprehensive Dredge Permit to all permit governing agencies to include Commonwealth of Massachusetts (MEPA, NHESP,CH91 & 401 permits, CZM review), United States Army Corps of Engineers and local Conservation Commission. Part of this process will include identifying dredge spoil disposal locations for each dredge site. This will be done in coordination with the Dredge Comprehensive Plan work.

**Source of Funding:** \$9,310 balance remaining in prior approved and completed capital projects and \$341,000 Capital Trust Fund bond issue

# 5. \$215,000 FOR THE DESIGN AND PERMITTING OF A BLISH POINT SAND MANAGEMENT PLAN - page 97

This project involves a two-pronged approach to the serious sand loss issues at Blish Point. The first is to design and construct an immediate, near term, solution to protect the point. The second involves designing and constructing a more permanent solution. To date, DEP has indicated a willingness to permit the proposed near term solutions, but has generally been hesitant about the more permanent solutions. Therefore, DPW is recommending the following approach to the project:

- a. Undertake the design effort for both the near term and more permanent solutions at the same time. That way as the near term solution is being designed; work can be done with DEP on approving the concept for the longer term project.
- b. Undertake the construction of the near term solution
- c. Undertake the construction of the more permanent solution.

If sufficient progress can be made with DEP during the design efforts that it becomes obvious that the more permanent solution can be permitted and built on close to the same schedule as the near term solution, then the near term solution will be abandoned and only the permanent solution will be submitted for construction funding. But, if permitting of the more permanent solution is going to be a long and protracted process (at times measured in years), then the near term solution will be

constructed and will be protecting the point while the permitting issues for the more permanent solutions are being resolved.

Source of Funding: \$215,000 Capital Trust Fund Bond Issue

#### 6. \$393,500 FOR IMPROVEMENTS TO MARSTONS MILLS FISH RUN – page 99

This project consists of replacing the existing fishway structure that is constructed with a variety of materials, including plywood. The existing fishway is deteriorating rapidly; certain sections have completely rotted, requiring immediate maintenance. This resource is very important to maintain the successful passage of fish in this area. The preservation of a historical, cultural and economic heritage is a high priority of the Town. Also, predatory species of many kinds depend on the annual herring run. It is proposed to remove the existing materials and replace with a standardized wood structure for the entire 1,100 foot run. The construction will create minimal disturbance to the immediate surroundings as excavation for and construction of the new fish way will be done within a confined space by means of a prefabricated "trench box".

**Source of Funding:** \$67,500 balance remaining in prior approved and completed capital projects and \$326,000 Capital Trust Fund bond issue

#### 7. \$185,000 FOR IMPROVEMENTS TO THE CENTERVILLE COMMUNITY BUILDING - page 100

This request will fund the on-going historic adaptive reuse improvements to the Centerville Community Building and surrounding facilities. For the past several years, we have been making improvements to the interior and exterior of the building and adjoining program areas. These funds will continue repair tasks of greatest concern for the upcoming years. Specifically, the following work will be performed during FY2015:

- Improvements to electrical service, lighting and power distribution
- Improvements to life safety electrical exit signage, lighting, and alarm systems
- Renovate Restrooms
- Emergency signage and lighting.

The Centerville Community Center building is a facility that is heavily used by Recreation Division programs, and the public on a daily basis, with its adjoining playground and ball field. It is one of the busiest Town facilities used by our residents and programs.

Funding Source: \$185,000 Capital Trust Fund Bond Issue

#### 8. \$42,000 FOR IMPROVEMENTS TO MILL POND & LONG POND FISH WAYS - page 101

This request is for design and permitting of the repair and replacement of flume and control structures at Mill Pond, together with protective railings and pedestrian access and to provide a new control structure at Long Pond. This work will include excavation of old concrete structures, repair of stone protection, installation of concrete control structures with the ability to install "flash boards" to control water levels in the ponds. Fish ways and associated works provide a basis for the continuation of the historic and natural process of fish spawning in our ponds. There are extensive cultural and economic benefits associated with this project.

Source of Funding: Capital Trust Fund Reserves

#### 9. \$85,000 FOR VETERANS BEACH PARKING LOT IMPROVEMENTS – page 104

This is a request to resurface the Veterans Beach parking lot in Hyannis. The existing parking lot is at the end of its useful life. It is uneven and has heaved/sunk in areas. This project will add an overlay to the existing layout, which should extend the life of the parking lot by 5 to 10 years.

**Source of Funding:** Capital Trust Fund Reserves

#### 10. \$55,000 FOR McKEON PARK WATER AND SEWER SERVICE - page 109

This request is for funding the design and construction of water and sewer services for the McKeon Park concession stand. The existing concession stand does not have potable water, or sanitary services. Recent rulings from the Town of Barnstable Board of Health have indicated that that Board will not allow the stand to continue to operate without potable water service.

Source of Funding: Capital Trust Fund Reserves

#### 11. \$84,000 FOR ADA COMPLIANT RESTROOMS AT HYANNIS GOLF COURSE - page 110

This project involves the reconstruction/renovation of existing public restrooms and adjacent building space located on the main level of the clubhouse to accommodate upgrades necessary to meet ADA compliance for handicapped accessibility and use. The clubhouse building at Hyannis Golf Course was built in the 1970's and the size and layout of the existing restrooms are too small to accommodate ADA requirements resulting in the need to expand the construction of restrooms into existing building space. Items to be addressed include doorways that are too narrow, interior walls obstructing access, accessibility of the stalls and sinks, grab bars and the creation of a 5' turnaround area for wheelchairs. These items were identified by the Disability Commission during an accessibility survey conducted in 2011. The Barnstable Disability Commission has been requesting this work be done since October 2011. We have had complaints from handicapped patrons and lost out on numerous events for the function room due to lack of handicapped access to the existing restrooms. The facilities do not meet the ADA requirements as both men's and ladies' rooms are completely inaccessible for handicap access. There is a sense of urgency to complete the needed upgrades.

**Source of Funding**: Capital Trust Fund Reserves

#### **GROWTH MANAGEMENT GENERAL FUND CAPITAL PROJECTS (Totaling \$170,000)**

#### 1. \$170,000 FOR A BICYCLE ACCOMMODATIONS PROGRAM - page 114

There is an increasing desire in the community for safer bicycle accommodations. Studies indicate that riders would use their bikes more frequently if roads were made safer for them. People ride bikes as a form of transportation that provides an opportunity to exercise while at the same time reducing trips in the automobile. Improvements to bicycle infrastructure results in increased safety, increased bicyclists use of facilities, and less automobile traffic. With the buses and the new train from Boston that bring tourists to Hyannis, it is important that they can utilize alternative means of transportation such as bikes to visit other villages, beaches, and tourist attractions.

Under the first year of this program, "share the Road" signs and pavement markings will be designed and installed along the "South Coast Bike Route". The more heavily used roadways from Hyannis to Marstons Mills will have pavement markings in addition to signs. Only the signs will be installed on some of the less heavily traveled roads in Cotuit. There will be two categories of signs along the route; traffic signs with a bike symbol and a "share the road" plaque to alert automobiles, and route directional signs to guide the bicyclists on directions and distances to destinations along the route. In addition, bike racks will be installed at village centers and other points of interest along the route.

The Barnstable South Coast Bike Route will connect 5 villages along the following sections of roads:

- Sea Street (South Street to Ocean Avenue) (Hyannis)
- Ocean Avenue to Hyannis Avenue

- Hyannis Avenue to Washington Avenue
- Washington Avenue to Wachusett Avenue
- Wachusett Avenue to Scudder Avenue
- Scudder Avenue to Craigville Beach Road (Centerville)
- Craigville Beach Road to South Main Street
- South Main Street to Main Street (Osterville)
- Main Street to South County Road
- South County Road to Main Street (Marstons Mills)
- Main Street to Meeting House Way
- Meeting House Way to Prince Avenue (Cotuit)
- Prince Avenue to Old Post Road
- Old Post Road to Putnam Avenue
- Putnam Avenue to Main Street
- Main Street to Oregon Beach

A plan of priority bike routes has been developed for the Town based upon meetings and workshops with the biking community and an analysis of the existing infrastructure. This route was the number 1 priority to improve.

Source of Funding: Capital Trust Fund Reserves

#### PUBLIC WORKS GENERAL FUND CAPITAL PROJECTS (Totaling \$3,926,000)

#### 1. \$3,250,000 FOR PUBLIC ROADS MAINTENANCE - page 119

This is a continuing, essential, program aimed at combating the progressive deterioration of the Town's roadway assets and provision of new storm water handling capacity. Depending on physical conditions and analysis using the Town's Pavement Management Program, the repairs may include one of several different approaches including: full depth reconstruction, asphalt overlay, milling and paving, applying a chipseal surface layer or cracksealing. In addition to surface repairs, improvement projects typically include installation or upgrading of drainage systems, curbing, and sidewalks wherever practicable. For FY 2015, funds will be used for:

- Engineering design and permitting services for the road rehabilitation of the entire length of Huckins Neck Road in Centerville;
- Drainage improvements and resurfacing of Crockers Neck Road and Old Post Road in Cotuit,
   Old Town Road, Gleason Street, and Park Street in Hyannis, Lumbert Mill Road, a portion of Route 149 and River Road in Marstons Mills;
- Preventive maintenance chipseal of various roads town-wide to extend their service life;
- Preventive maintenance crackseal of various roads town-wide to extend their service life;
- Design services for various construction quality control measures, roadwork inspection and material testing; and,
- Construction and repair of multiple drainage sites town-wide in problem areas identified during the course of the year.

Through the use of the Pavement Management Program, a backlog of over \$28,224,500 of needed road related repairs has been identified. This equates to over 100 miles of Town roads in need of more than routine maintenance or repair. In addition, the Town has a backlog of approximately 245 locations where drainage improvements are required to protect public safety and prevent potential property damage.

Source of Funding: Capital Trust Fund Reserves

# 2. \$100,000 RISK ASSESSMENT AND SECURITY EVALUATION FOR TOWN HALL, SCHOOL ADMINISTRATION BUILDING, AND 200 MAIN STREET - page 124

This request is to perform a comprehensive risk assessment and security evaluation for the primary Town buildings. The recommendations developed in this evaluation will allow the Town to select the best measures to protect its employees and facilities. The Town is facing the difficult balance that many public agencies face: how to be open and accessible to citizens, while at the same time being protective of employees. It has to balance desired convenience versus security. Potential risks include, but are not limited to:

- Upset, angry or disruptive citizens who may pose a threat of physical violence to employees interfacing with the public
- Violence, theft or sabotage from disgruntled citizens, or employees and contractors
- Domestic violence from estranged spouses or significant others that spill into the workplace
- Terrorism (domestic or international)
- Disasters natural and man made.

Determining which of these risks are the most pressing; how best to protect against them; and making recommendations to policies, procedures, and facilities will be the task of the evaluation.

**Source of Funding:** General Fund Reserves

#### 3. \$285,000 GUARDRAIL REPLACEMENT AND SIDEWALK OVERLAYS - page 127

This request is for guardrail and sidewalk improvements. For guardrails, it involves removal and replacement of 5,000 feet of old deteriorated cement posts and steel cable rails. Sidewalk improvements include removal of old broken asphalt and vegetation from existing sidewalk and installing a 1.5" layer of new top coat asphalt. Specific locations to be addressed include:

#### Guardrails

Commerce Road, Barnstable
River Road, Marstons Mills
Putnam Ave, Cotuit
Service Road, Centerville/West Barnstable Sidewalks
Prince Hinckley Road, Centerville
Castlewood Road, Hyannis
Cherry Street, Hyannis
Old Colony Road, Hyannis
River Road, Marstons Mills

Source of Funding: Capital Trust fund Bond Issue

#### 4. \$240,000 FOR RENOVATION OF PAINE BLACK HOUSE – page 137

This request involves design and replacement of mechanical systems, septic system and building envelop of this historic property, and related building stabilization/repairs and improvements. The intent is to renovate this building to serve as an office/meeting space. The property has been deteriorating at a very rapid pace. It is feared that if the Town does not invest in, at a minimum, in stabilizing the property, it will quickly be beyond repair and need to be torn down.

**Source of Funding:** \$31,027 balances remaining in prior approved and completed capital projects, \$103,973 in General Fund Reserves, and \$105,000 in Community Preservation Funds

#### 5. \$51,000 FOR BURGESS HOUSE IMPROVEMENTS – page 143

This project would fund needed stabilization of the building structure. The requested funds for FY15 would provide for replacement of the roof with red cedar shingles. Subsequent funding would provide

for design and improvements to interior including replacement of electrical and plumbing components, replacement of mechanical systems, siding, and new doors and windows as necessary.

**Source of Funding:** Community Preservation Funds

#### REGULATORY SERVICES GENERAL FUND CAPITAL PROJECTS (Totaling \$315,000)

#### 1. \$75,000 FOR HYDRILLA CONTROL – page 146

2013 marked the 12<sup>th</sup> year of controlling invasive hydrilla at Long Pond and the 3<sup>rd</sup> year at Mystic Lake. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It can spread from pond to pond. The Town, Association for the Preservation of Long Pond, the Indian Ponds Association, and MA DCR are partnering in this effort to preserve the two affected ponds and to reduce the chance of hydrilla spread to other ponds in Barnstable. As a result, hydrilla has been drastically reduced in Long Pond, and slowed in Mystic Lake. An effective aquatic herbicide Aquathol K was used in Mystic in 2013. Halting spread of the hydrilla in Mystic Lake has proven difficult. Moreover, the loss of key individuals from the IPA will leave the previously-volunteer benthic blanketing and hand-pulling efforts to our contractor going forward. The requested funds will be used to control hydrilla in these ponds using both chemical and physical methods.

**Source of Funding:** General Fund Reserves

#### 2. \$140,000 FOR LOVELL'S POND ALUM TREATMENT – page 147

The requested funds will be used for advance testing, permitting and alum injection onto bottom sediments of Lovell's Pond to prevent devastating algae blooms. The Aeration system installed in 2010 has provided superb oxygen levels and mixing within the pond. However, operation has been beset with mechanical unreliability, and severe blue-green algae blooms have persisted, resulting in routine closures of the swimming beach. Analysis of the pond in 2013 has provided a clearer understanding of the water quality issues at Lovell's, and points to alum injection as the stand-alone choice for cost-effective improvement in water quality. Alum success in turning around conditions at both Hamlin Pond (since 1995) and Mystic Lake (since 2010) reinforce this choice.

**Source of Funding:** General Fund Reserves

#### 3. \$100,000 FOR FANWORT CONTROL IN LAKE WEQUAQUET - page 151

This project consists of invasive fanwort control at Wequaquet Lake hot spots. Efforts in 2013 were limited to suction harvesting only. Proposed for 2015 is endangered plant surveys, a combination of suction harvesting where it can be effective (Wequaquet & Gooseberry) and Sonar aquatic herbicide use in Bearse's where fanwort is widespread. Endangered plant species concerns have hindered our ability to permit Sonar use in recent years, though the outlook is improved going forward.

**Source of Funding:** General Fund Reserves

#### SCHOOLS GENERAL FUND CAPITAL PROJECTS (Totaling \$3,029,000)

#### 1. \$2,100,000 FOR A NEW EARLY LEARNING CENTER – page 152

This is part of a three phase project consisting of the construction of the Barnstable Public Schools Early Learning Center at Hyannis West Elementary (HYW) and removal/replacement of current/outdated portable classrooms at Barnstable West Barnstable, Centerville, and Hyannis West Elementary Schools.

The first phase consists of the construction of the Barnstable Public Schools Early Learning Center at HYW to house the Pre-School students and program staff. A new detached modular facility would be added to the HYW campus approximating 7,500 square feet and consisting of six classrooms. The Barnstable Public School system has closed five schools over the last ten years, and is beginning to see an upsurge in elementary enrollment, thus necessitating the need for additional quality and code compliant learning space. Construction of a new Early Learning Center at Hyannis West will also free up much needed classroom space at Centerville Elementary School. If additional space is not provided, class sizes at Centerville could potentially result in 35 students per classroom.

Source of Funding: Capital Trust Fund Bond Issue

# 2. \$200,000 FOR THE BARNSTABLE INTERMEDIATE SCHOOL FAÇADE & ROOF IMPROVEMENTS – page 154

Extensive capital money amounting to approximately \$4 TO \$5 million is required to fund costs required for extensive exterior repairs identified in the Exterior Evaluation Study performed by Gale Associates in December 2009. FY 2015 will include design, engineering and bid documents for Phase 1 construction and repairs to correct some roof leaks on an air handler connection and penetrations. Requests in subsequent years will be for construction phased over several years.

**Source of Funding:** Proceeds from the sale of the former Grade 5 school

# 3. \$200,000 FOR AN UPGRADE TO HIGH SCHOOL FIRE, INTRUSION, & COMMUNICATION SYSTEM – page 155

This project is for an upgrade of the existing Simplex system. The current system is outdated (panel, smokes, heats, pull, horn strobes, PA speakers, etc.). This cost estimate considers an upgrade to the existing system which includes improvement and modifications to intrusion, fire alarm, sprinkler, PA, and clock systems. The building is consistently experiencing significant faults and issues with the existing fire, intrusion, and communication system(s). Some areas of the building do not have sufficient audible/visual coverage. Due to the proprietary nature of the existing system, maintenance of the system has presented a challenge for private contractors (past and present). Simplex has never worked on the system. The Hyannis Fire Department has strongly recommended upgrades and/or replacement with concerns for reliability and compliance to standards. Additional funding is being requested for FY 2015 for further upgrades to smokes, heats, pulls, and intrusion and communication system.

**Source of Funding:** Proceeds from the sale of the former Grade 5 school

# 4. \$204,000 FOR INFRASTRUCTURE IMPROVEMENTS FOR THE BPS NETWORK: ACCESS TO INTERNET AND DIGITAL RESOURCES IN A MOBILE ENVIRONMENT – page 156

The Town of Barnstable has completed its construction on the Barnstable Fiber Optic Network (BFON) in October of 2013. Every municipal and school building is now connected with fiber optic cable and that project provided ONE high end switch in each of the main closets for each of the school buildings. Year one (FY14) of this capital improvement project funded additional switches in the remaining Intermediate Distribution Frame closets. All schools have been upgraded with direct access to the fiber built by Open Cape and managed by Cape Net. In addition, we now subscribe to synchronous bandwidth of 100 mb from Cape Net. With connections provided by Open Cape/Cape Net, we have configured our network and push out Internet access through the Barnstable Fiber Optic Network to all of the schools in the Town of Barnstable. Most educational resources reside 'in the cloud' and more and more resources and tools are put there every day. Internet access is mission critical to our School Department. In FY 2015, this capital improvement project will continue to fund the construction of a managed, enterprise, and secured wireless network in the school district to support the demand for

increased connectivity of mobile devices, computers and other peripherals. The requested project funding is for installation and configuration of the following:

- 300 Ruckus 7982, 3x3 MIMIO, 3 SS, Access Points (projected total for the project)
- Zone Manager, Controller, and redundant controller, for enterprise wireless solution
- Cat 6 cabling from switch to 300 access points, ceiling mounted for coverage and density
- Additional blades to existing switches/extra ports.

**Source of Funding:** Proceeds from the sale of the former Grade 5 school

#### 5. \$200,000 FOR AIR CONDITIONING CHILLER PIPE UPGRADES - page 161

This project is for reinsulating existing A/C Chiller Piping. The existing chiller pipe insulation is inadequate and has failed resulting in excessive condensation/moisture issues in the interior of the building. The resulting condensation leaks have created issues with mold on ceiling tiles, attic/above ceiling spaces and classroom areas.

Source of Funding: Balances remaining in prior approved and completed capital projects

#### 6. \$100,000 FOR INTERIOR/EXTERIOR DOOR LOCK AND HARDWARE UPGRADES - page 162

This project is for an update and upgrade of all interior/exterior door hardware and locksets campus wide. Approval of this project will provide a consistent and standardized key/lock scheme for the Barnstable Public Schools. The project also includes upgrades and replacements to hardware sets on many doors, upgrades to these mechanisms assures proper door operation and provides higher levels of security to normally locked school building areas. The areas for these improvements have been identified and reviewed in conjunction with building security studies performed by the Barnstable Police Dept., Bureau of Homeland Security and Facilities Dept.

**Source of Funding:** \$40,787 balance remaining in prior approved and completed capital projects, \$46,705 in General Fund Reserves, and \$12,508 in proceeds from the sale of the former Grade 5 school

#### 7. \$50,000 FOR KITCHEN EQUIPMENT UPGRADES – page 163

This project will allow for continued campus wide replacement and upgrade of kitchen equipment to be done as a collaborative effort (over a five year period at \$50,000 per year) between Food Services & BPS facilities. Existing equipment in most schools is nearing a 20 year end of service life. Schools are currently experiencing issues with food preparation and delivery due to equipment failures which are difficult to repair due to issues in obtaining replacement parts and service. Additionally, menu requirements are changing further necessitating the need for updated equipment sets.

**Source of Funding:** Proceeds from the sale of the former Grade 5 school

# 8. \$75,000 FOR REBUILDING AND REPLACEMENT OF PUMP SETS AT BARNSTABLE UNITED ELEMENTARY SCHOOL - page 164

This request is for rebuilding/replacement of hot water circulation pumps. The pump sets are at end of their life and are in need of replacement or a rebuild to effectively circulate water for heat.

**Source of Funding:** Proceeds from the sale of the former Grade 5 school

#### **ENTERPRISE FUND PROJECTS**

DEPARTI	MFNT	ſ		F	IVE YEAR COSTS	<u> </u>		PROJECT TOTALS
	NAME	PROJECT TITLE	2015	2016	2017	2018	2019	2015-2019
1	BMA	Painting of Runways, Taxiways, & Roadways	50,000	50,000	50,000	50,000	50,000	250,000
2	BMA	Replace Dump Truck w/Sander	65,000	30,000	30,000	30,000	30,000	65,000
3		all the second of the second o		2,350,000				2,550,000
4	BMA	Design & Construct Runway 15-33	200,000	4,600,000				5,000,000
5	BMA	Design & Construct Runway 6-24	400,000	4,000,000	4,600,000			5,000,000
6	BMA	Design & Replace East Ramp T-Hangar Roof	100,000		4,000,000			100,000
7		Replace Frontend Loader	650,000					650,000
8	BMA	Design & Construction of Phase 1 Airport Access Rd. East Side of Airfield	448,125	344,000				792,125
9	BMA	Airport Terminal and Building Improvements	200,000	200,000				400,000
10	BMA	Design & Construction Airport FBO Building	1,205,000	200,000				1,205,000
11		Design & Construct Snow Removal Vehicle Storage Building	1,203,000	500,000				500,000
12			650,000				650,000	
13	BMA	Design & Replace Airfield Vault Emergency Generator		90,000				90,000
14	BMA	Replace Snow Removal Blower		900,000				900,000
15		Replace Airfield Equipment		115,000	110,000			225,000
16		Permit, Design, Reconstruct Taxi Ways B, B1 & D		600,000	110,000	2,150,000		2,750,000
17	BMA	Replace Snow Removal Equipment		000,000	260,000	2,130,000		260,000
18	BMA	Airfield Lighting Control System Fiber Optic Network			55,000			55,000
19		Permit, Design, Reconstruct Clear Vegetation Airport Fence line Buffer Zone			75,000	800,000		875,000
20	BMA	Airport FAA Master Plan & Utilities GIS Survey			73,000	800,000		800,000
21	BMA	Land Acquisition Runway 33 Runway Safety Area/Protection Zone				200,000	2,500,000	2,500,000
22		FAA FAR Part 150 Noise Exposure Map					80,000	80,000
	I	TOTAL AIRPORT	3,718,125	10,399,000	5,150,000	3,800,000	2,630,000	25,697,125
			3,7 13,123	10,000,000	3,130,000	3,000,000	2,030,000	23,037,123
1	CSD	Design & Construct Mechanical Upgrades	-	220,529				220,529
		TOTAL COMMUNITY SERVICES HYCC	-	220,529	-	-	-	220,529
	1							
1	CSD	Sandy Neck Sand Management	-	320,000				320,000
		TOTAL COMMUNITY SERVICES SANDY NECK	-	320,000	-	-	-	320,000

		1						PROJECT
DEPARTI	MENT		FIVE YEAR COSTS					TOTALS
PRIORITY	NAME	PROJECT TITLE	2015	2016	2017	2018	2019	2015-2019
1	DPW	Replace 1 Ton Dump Truck	60,000					60,000
2	DPW	N Replace Backhoe						110,000
3	DPW	Master Plan	75,000	205,000				280,000
		TOTAL PUBLIC WORKS SOLID WASTE	245,000	205,000	-	-	-	450,000
1	DPW	Pipe Replacement & Upgrade Program	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000
2	DPW	Wells Pump Station & Treatment Plant Repair and Upgrade	200,000	200,000	200,000	200,000	200,000	1,000,000
3	DPW	New Well Exploration Program	583,000	555,500	2,000,000	32,745	2,000,000	5,171,245
4	DPW	Paint/Repair Large Tank Mary Dunn 2	68,400	615,600				684,000
5	DPW	Water Main Upgrade Main St HY to Winter St	95,900	960,000				1,055,900
		TOTAL PUBLIC WORKS WATER SUPPLY	1,997,300	3,381,100	3,250,000	1,282,745	3,250,000	13,161,145
	1		T		Т			
1	DPW	Septage Building Capacity Evaluation & Upgrades	450,000	1,650,000	2,000,000			4,100,000
2	DPW	Design & Construct Generator Storage Building	132,000					132,000
3	DPW	Plant Upgrading to Control Total Organic Carbon & Total Nitrogen Effluent Limit	200,000	600,000	4,000,000	4,000,000	2,000,000	10,800,000
		TOTAL PUBLIC WORKS WASTE WATER	782,000	2,250,000	6,000,000	4,000,000	2,000,000	15,032,000
		TOTAL ENTERPRISE FUND PROJECT COSTS	6,742,425	16,775,629	14,400,000	9,082,745	7,880,000	54,880,799

### **GENERAL FUND PROJECTS**

DEPART	MFNT	7		F	IVE YEAR COSTS			PROJECT TOTALS
PRIORITY	NAME	PROJECT TITLE	2015	2016	2017	2018	2019	2015-2019
1	ASD	Aerial Flyover & Mapping	140,000		-			140,000
2	ASD	Summer Flyover of Waterways	-	86,500				86,500
		TOTAL ADMINISTRATIVE SERVICES DEPARTMENT	140,000	86,500	-	-	-	226,500
1	CSD	Beach House Construction & Renovations	301,500	3,219,716	129,000	1,594,300	407,400	5,651,916
2	CSD	Senior Center Parking Lot Expansion	290,000	3,219,710	129,000	1,594,300	407,400	290,000
3	CSD		290,000	100,000	550,000			650,000
4	CSD	Lopes Field Design & Construct  Veterans Park Strategic Plan & Campus Design	50,000	100,000	550,000			50,000
5	CSD	Town-Wide Comprehensive Dredge Program and Permitting	350,000					350,000
6	CSD	Blish Point Sand Management Plan	215,000	300,000	1,575,000			2,090,000
7	CSD	Design & Construct Marstons Mills Fish Run	393,500	392,500	1,373,000			786,000
8	CSD	Centerville Community Building Improvements	185,000	211,500	226,200			622,700
9	CSD	Design & Construct Mill Pond & Long Pond Fish Ways	42,000	168,000	220,200			210,000
10	CSD	Lombard Field Improvements	42,000	156,192	988,761			1,144,953
11	CSD	Veterans Beach Parking Lot Rehab	85,000	150,192	988,701			85,000
12	CSD	Hyannis Breakwater Repair	85,000	150,000	1,500,000			1,650,000
13	CSD	MEA Facility Renovations	-	222,768	62,400			285,168
14	CSD	MEA Facility Addition		113,935	679,593			793,528
15	CSD	Bismore Park Site Improvements - Phase II		75,000	643,000	-		718,000
16	CSD	McKeon Park Water & Sewer Service	55,000	73,000	043,000			55,000
17	CSD	ADA Compliant Restrooms Hyannis Golf Club House	84,750					84,750
	CSD	TOTAL COMMUNITY SERVICES DEPARTMENT	2,051,750	5,109,611	6,353,954	1,594,300	407,400	15,517,015
		TO THE GOTTIMOTH TO ELECTED SELFAURTHER.	2,032,730	3,103,011	0,000,004	2,554,500	407,400	
1	GMD	HyArts Shanties Expansion		116,546				116,546
2	GMD	Bicycle Accommodations Program	170,000					170,000
		TOTAL GROWTH MANAGEMENT DEPARTMENT	170,000	116,546	-	-	-	286,546
1	BPD	Police Headquarters Upgrades	288,000	220,000				508,000
	I	TOTAL POLICE DEPARTMENT	288,000	220,000	-	_	_	508,000

DEPARTMENT			FIVE YEAR COSTS			FIVE YEAR COSTS				
PRIORITY	NAME	PROJECT TITLE	2015	2016	2017	2018	2019	2015-2019		
1	DPW	Public Roads Maintenance	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	16,250,000		
2	DPW	West Bay Bridge Repairs	-	100,000	1,743,710			1,843,710		
3	DPW	Town Hall Interior Improvements	-	184,825	739,300	855,300	855,300	2,634,725		
4	DPW	Risk Assessment & Security Evaluation - Town Hall, School Admin, 200 Main	100,000	_	-	_		100,000		
5	DPW	School Administration Building Improvements	-	334,220	1,348,881	1,405,976		3,089,077		
6	DPW	Guard Rail Replacements & Sidewalk Overlays	285,000	295,000	305,000	315,000	325,000	1,525,000		
7	DPW	Craigville Beach Rd - Sidewalk, Drainage & Sanitary Sewer	-	1,278,000				1,278,000		
8	DPW	Highway Division Building Improvements - Phase 3	-	558,064	743,400	4,496,250	500,000	6,297,714		
9	DPW	Highway Division Building Parking Lot	-	26,043	93,010			119,053		
10	DPW	Town Hall Site Improvements	-	174,325	622,590			796,915		
11	DPW U.S. Customs House Improvements - Phase 2		-	393,129				393,129		
12	DPW	Structures & Grounds Building Improvements	-	87,500	89,973	67,354	205,000	449,827		
13	DPW	Mosswood Cemetery Building Improvements	-	313,788				313,788		
14	DPW	Paine Black House Renovations	135,483	240,183				375,666		
15	DPW	Trayser Carriage House Repairs	-	195,777				195,777		
16	DPW	Burgess Barn Repairs	-	188,977				188,977		
17	DPW	Rush Marsh Pond Restoration	-	527,000				527,000		
18	DPW	Old Jail Repairs	-	35,031	143,810			178,841		
19	DPW	Burgess House Repairs	-	300,000				300,000		
20	DPW	200 Main St Bldg Complete Reconstruction 2nd Floor	-	56,823	372,530			429,353		
		TOTAL PUBLIC WORKS DEPARTMENT	3,770,483	8,538,685	9,452,204	10,389,880	5,135,300	37,286,552		
	ncn	Lang David Cantamilla 9 NA atia Laka NANA Undailla Cantag	75.000	75.000				150,000		
1	RSD	Long Pond Centerville & Mystic Lake MM Hydrilla Control	75,000	75,000				150,000		
2	RSD	Lovell's Pond Cotuit - Alum Treatment	140,000	10,000				150,000		
3	RSD	Shooting Range Lead Abatement	-	155,424				155,424		
4	RSD	Wequaquet Lake Fanwort Control	100,000	242.424				100,000		
		TOTAL REGULATORY SERVICES DEPARTMENT	315,000	240,424	-	-	-	555,424		
1	SCH	BPS Early Learning Center	2,000,000	1,200,000	1,750,000			4,950,000		
2	SCH	Barnstable Intermediate School Façade & Roof Improvements	200,000	800,000	1,000,000	1,000,000	1,000,000	4,000,000		

DEPART	MENT				FIVE YEAR COSTS			PROJECT TOTALS
PRIORITY	NAME	PROJECT TITLE	2015	2016	2017	2018	2019	2015-2019
3	SCH	High School Fire, Intrusion, Communication System	200,000	200,000				400,000
4	SCH	BPS Network - Internet & Digital Resources	204,000	213,000				417,000
5	SCH	Barnstable United Elementary - Air Conditioning Chiller Pipe Upgrades	200,000					200,000
6	SCH	BPS Campus Wide Interior/Exterior Door Lock & Hardware Upgrade	100,000					100,000
7	SCH	Kitchen Equipment Upgrades	50,000	50,000	50,000	50,000	50,000	250,000
8	SCH	Barnstable United Elementary MM - Replace Heat Circulating Pumps	75,000					75,000
9	SCH	BHS Replace/Upgrade Stadium Bleachers	-	1,000,000				1,000,000
10	SCH	BHS Field House - Replace Equipment & Replace & Paint Floors, Walls	-			250,000	250,000	500,000
11	SCH	BWB, HYW & Centerville - Replace Ventilator Units	-	200,000	200,000	200,000	200,000	800,000
12	SCH	Hyannis West Elementary - Interior/Exterior Door Replacement	-	300,000				300,000
13	SCH	BCHMCPS Facade Improvements & Roof Replacement	-	1,000,000	500,000	500,000	500,000	2,500,000
14	SCH	Barnstable United Elementary School Courtyard Improvements	-	200,000				200,000
15	SCH	Centerville Elementary School - Window Replacement	-		1,000,000			1,000,000
16	SCH	Rebuild/Replace Kitchen Walk-in Refrigerators	-	150,000				150,000
17	SCH	BPS Campus Wide Flooring Upgrades	-		100,000	100,000	100,000	300,000
18	SCH	BPS Campus Wide Fields & Grounds Improvements	-			500,000	500,000	1,000,000
19	SCH	BPS Campus Wide Paving	-		100,000	100,000	100,000	300,000
20	SCH	Performing Arts Center - Upgrades & Improvements	-	100,000	100,000	100,000		300,000
21	SCH	BHS Roof-top Ventilator Replacements	-	450,000	300,000			750,000
22	SCH	Campus wide Multimedia Updates	-		50,000	50,000	50,000	150,000
		TOTAL SCHOOL DEPARTMENT	3,029,000	5,863,000	5,150,000	2,850,000	2,750,000	19,642,000
				<u>.</u>	<u>.</u>			
		TOTAL GENERAL FUND PROJECT COSTS	9,764,233	20,174,766	20,956,158	14,834,180	8,292,700	74,022,037
			<u>.</u>	<u>.</u>	<u>.</u>			
		TOTAL ENTERPRISE & GENERAL FUND PROJECT COSTS	16,506,658	36,950,395	35,356,158	23,916,925	16,172,700	128,902,836

### **E. STATUS OF EXISTING GENERAL FUND CAPITAL APPROPRIATIONS**

### **Projects Completed With Balances Remaining:**

Council	Munis	Financing			Available Bal	%		
Order	Project	Method	Project Description	Appropriation	@ 02/27/14	Expended	Status	Action
2010-114	10114	cash	Sidewalks	473,000	57	100%	Completed	Use for PW-14
2011-092	11092	bond	Baxter's Neck Rd	350,000	29,865	91%	Construction completed	Repurpose for next private rd imp
2010-106	10106	cash	Coastal Discharge Mitigation	100,000	9,310	91%	Projects completed	Use for CS-5
2010-105	10105	cash	Marstons Mills River Herring Run	67,500	67,500	0%	Match for NRCS grant - project halted	Use for CS-8
2012-097	2097A&B	cash	Emergency generators - HGHWY & SW	363,000	123,618	66%	Completed	Use for AS-1
2011-072	1072J	bond	MEA Roof Replacement	114,000	30,970	73%	Completed	Use for PW-14
2012-097	2097S	cash	MEA Septic System	55,000	55,000	0%	Not used	Use for RS-2
2012-097	2097F	cash	Diagnostic Study Lovells Pond	50,000	33,759	32%	Completed	Use for RS-2
2011-072	1072A	bond	School Asbestos Abatement	332,000	91,468	72%	Completed	Use for SCH-5
2011-072	1072B	bond	BELC Improvements	103,000	36,154	65%	Completed	Use for SCH-5
2011-072	1072D	bond	Hy West Sinks & Countertops	182,000	72,443	60%	Completed	Use for SCH-5
2010-109	0109F	bond	SPED Restroom Upgrades	85,000	15,159	82%	Completed	Use for SCH-6
2011-072	1072E	bond	HY West Boiler	87,000	9,611	89%	Completed	Use for SCH-6
2011-072	1072F	bond	BHS Stadium Lighting	179,000	9,325	95%	Completed	Use for SCH-6
			Total	2,540,500	584,239	77%		

### E. STATUS OF EXISTING GENERAL FUND CAPITAL APPROPRIATIONS - CONTINUED

### Projects in Progress Requiring Reauthorization By Town Council if Not Encumbered By June 30, 2014:

Council	Munis	Financing			Available Bal	%		
Order	Project	Method	Project Description	Appropriation	@ 02/27/14	Expended	Status	Action
2010-111	10111	bond	West Bay Bridge	650,000	107,999	83%	Electrical & structural work on-going	Expires on June 30, 2014
2010-112	10112	bond	East Bay Boat Ramp Improvements	250,000	114,690	54%	Under Construction	Expires on June 30, 2014
2010-113	10113	bond	Comprehensive Wastewater Mgt Plan	600,000	513,769	14%	Ongoing development	Expires on June 30, 2014
2011-065	11065	cash	Public Road Improvements	3,250,000	427,533	87%	Programmed - remain open	Expires on June 30, 2014
2011-067	1067A	bond	Mill Pond Dredging	250,000	250,000	0%	In permitting process	Expires on June 30, 2014
2011-067	1067C	bond	Wequaquet Lake Sampling & Mapping	180,000	49,490	73%	Remain open pending completion	Expires on June 30, 2014
2011-068	1068B	bond	Traffic Calming	50,000	4,806	90%	Used as needed - remain open	Expires on June 30, 2014
2011-069	1069B	bond	Dredge Blish Point Ramp	120,000	5,697	95%	Remain open pending completion	Expires on June 30, 2014
2011-069	1069C	bond	Permit East Bay Entrance Channel	90,000	38,204	58%	Remain open pending completion	Expires on June 30, 2014
2011-071	1071A&B	bond	Prince Cove & Hayward Boat Ramp Imp	600,000	101,970	83%	Under contract	Expires on June 30, 2014
		•	Total	6,040,000	1,614,158	73%		•

### **Projects in Progress Requiring No Council Action:**

Council	Munis	Financing			Available Bal	%		
Order	Project	Method	Project Description	Appropriation	@ 02/27/14	Expended	Status	Action
2010-109	0109C	bond	School Electrical Upgrades	55,000	4,119	93%	Will be fully spent by 6/30/14	None required
2011-072	1072C	bond	Hy West Exterior Improvements	177,000	1,094	99%	Will be fully spent by 6/30/14	None required
2011-072	1072H	bond	School Interior Painting	65,000	15,962	75%	Will be fully spent by 6/30/14	None required
2010-104	10104	cash	Public Road Improvements	3,250,000	-	100%	Fully expended/encumbered	None required
2010-107	0107A	cash	Hydrilla & Fanwort	65,000	-	100%	Fully expended/encumbered	None required
2010-108	10108	bond	BWB and Centerville Parking Lots	250,000	-	100%	Fully expended/encumbered	None required
2010-109	0109A	bond	School Window Replacements	185,000	-	100%	Fully expended/encumbered	None required
2010-109	0109B	bond	BHS & BUE HVAC Upgrades	230,000	-	100%	Fully expended/encumbered	None required
2010-109	0109D	bond	School Painting	65,000	-	100%	Fully expended/encumbered	None required
2010-109	0109E	bond	School Boiler Assessment	60,000	-	100%	Fully expended/encumbered	None required
2011-066	11066	cash	Hydrilla & Fanwort	25,000	100	100%	Close project	None required
2011-068	1068B	bond	Sidewalks	350,000	-	100%	Fully expended/encumbered	None required
2011-069	1069A	bond	Dredge East Bay Ramp Channel	455,000	-	100%	Fully expended/encumbered	None required
2011-070	11070	bond	BPD Emergency Generator	271,000	-	100%	Fully expended/encumbered	None required
2011-072	1072G	bond	West Villages & BCHMCPS Parking Lots	190,000	-	100%	Fully expended/encumbered	None required

# E. STATUS OF EXISTING GENERAL FUND CAPITAL APPROPRIATIONS - CONTINUED

# **Projects in Progress Requiring No Council Action - Continued:**

Council	Munis	Financing			Available Bal	%		
Order	Project	Method	Project Description	Appropriation	@ 02/27/14	Expended	Status	Action
2011-072	10721	bond	BWB & Centerville Windows	335,000	-	100%	Fully expended/encumbered	None required
2012-096	12096	cash	Public Road Improvements	3,250,000	2,340,978	28%	Programmed - remain open	Expires on June 30, 2015
2012-097	2097C	cash	Hathaway's Beach House Septic	85,000	10,908	87%	Add/renov by S&G by 6/14	Expires on June 30, 2015
2012-097	2097D	cash	TH Interior Improvements	153,000	137,442	10%	Design 10%	Expires on June 30, 2015
2012-097	2097E	cash	Hydrilla	30,000	13,610	55%	Remain open pending completion	Expires on June 30, 2015
2012-097	2097G	cash	WB Community Building Improvements	50,000	1,999	96%	Complete by 1/14	Expires on June 30, 2015
2012-097	2097H	cash	Sidewalks	70,000	31,302	55%	Being planned	Expires on June 30, 2015
2012-097	20971	cash	Centerville Comm Bldg Improvements	80,000	32,893	59%	Complete by 3/14	Expires on June 30, 2015
2012-097	2097J	cash	Highway Building Roof	60,000	5,082	92%	Complete by 1/14	Expires on June 30, 2015
2012-097	2097K	cash	Design School St Bulkhead Improvements	50,000	5,757	88%	design 95%	Expires on June 30, 2015
2012-097	2097L	cash	Design Snow's Creek Culvert	75,000	20,020	73%	40% design	Expires on June 30, 2015
2012-097	2097M	cash	Design Bumps River Bridge	29,000	-	100%	Fully expended/encumbered	Expires on June 30, 2015
2012-097	2097N	cash	Design Bay St Ramp	25,000	1,959	92%	design 50%	Expires on June 30, 2015
2012-097	2097P	cash	Design US Custom House Improvements	40,000	-	100%	Fully expended/encumbered	Expires on June 30, 2015
2012-097	2097Q	cash	Design West Bay Breakwater Imp	75,000	117	100%	design 10%	Expires on June 30, 2015
2012-097	2097R	cash	Design Old Town Hall Improvements	51,000	48,699	5%	Design 50%	Expires on June 30, 2015
2012-097	2097T	cash	S&G Sewer Connection	75,000	75,000	0%	DPW Design 75%	Expires on June 30, 2015
2012-097	2097U	cash	Ocean St Parking Lot Improvements	115,000	35,802	69%	Construction under way	Expires on June 30, 2015
2012-097	2097V	cash	School Bathroom Stall Replacements	132,000	8,392	94%	On-going	Expires on June 30, 2015
2012-097	2097W	cash	BHS & West Villages Tennis Courts	55,000	18,532	66%	On-going	Expires on June 30, 2015
2012-097	2097X	cash	School Electrical Upgrades	55,000	26,343	52%	On-going	Expires on June 30, 2015
2012-097	2097Y	cash	School Interior Painting	50,000	-	100%	Fully expended/encumbered	Expires on June 30, 2015
2012-097	2097Z	cash	Exterior Repairs to BCHMCPS	56,000	24,100	57%	On-going	Expires on June 30, 2015
2013-066	13066	bond	Private Road Repairs - various WB	633,000	305,200	52%	Under construction	Expires on June 30, 2016
2013-104	13104	cash	School Underground Oil Tank Removal	100,000	100,000	0%	On-going	Expires on June 30, 2016
2013-105	13105	cash	Space Needs Assess & Modular Removal	125,000	83,061	34%	On-going	Expires on June 30, 2016
2013-106	3106A	bond	School Fire Intrusion & Comm Systems	200,000	179,295	10%	On-going	Expires on June 30, 2016
2013-106	3106B	bond	School Networking	189,000	8,554	95%	On-going	Expires on June 30, 2016
2013-106	3106C	bond	BUE Roof & Façade	600,000	559,559	7%	On-going	Expires on June 30, 2016
2013-106	3106D	bond	School Hot Water Circulating Pumps	85,000	22,306	74%	On-going	Expires on June 30, 2016
2013-106	3106E	bond	BHS & BUE Gymnasium Bleachers	55,000	23,636	57%	On-going	Expires on June 30, 2016
2013-106	3106F	bond	BIS Façade & Roof	100,000	42,800	57%	On-going	Expires on June 30, 2016
2013-106	3106G	bond	BHS A/C Units	450,000	423,000	6%	On-going	Expires on June 30, 2016
2013-107	3107A	bond	School Kitchen Equipment	110,000	55,972	49%	On-going	Expires on June 30, 2016

# E. STATUS OF EXISTING GENERAL FUND CAPITAL APPROPRIATIONS - CONTINUED

# **Projects in Progress Requiring No Council Action - Continued:**

Council	Munis	Financing			Available Bal	%		
Order	Project	Method	Project Description	Appropriation	@ 02/27/14	Expended	Status	Action
2013-107	3107B	bond	School Grounds Maintenance Equipment	150,000	1,889	99%	On-going	Expires on June 30, 2016
2013-108	13108	cash	Public Road Improvements	3,250,000	3,250,000	0%	Programmed - remain open	Expires on June 30, 2016
2013-109	13109	cash	Drainage Study	50,000	50,000	0%	On-going	Expires on June 30, 2016
2013-110	13110	cash	Design Senior Center Parking Lot	35,000	28,000	20%	Issue RFQ for Design Fall, 2013	Expires on June 30, 2016
2013-111	13111	cash	Hydrilla & Fanwort	80,000	500	99%	Remain open pending completion	Expires on June 30, 2016
2013-113	13113	cash	Assessing Records Conversion	90,000	90,000	0%	RPF under development	Expires on June 30, 2016
2013-114	13114	bond	Water Quality Eval & Sewer CAD Model	300,000	11,000	96%	Ongoing evaluation	Expires on June 30, 2016
2013-115	3115A	bond	Construct Bumps River Bridge	120,000	120,000	0%	Still in design	Expires on June 30, 2016
2013-115	3115B	bond	Sidewalks & Guardrails	250,000	60,111	76%	On-going	Expires on June 30, 2016
2013-116	3116A	bond	MEA Facility Improvements	131,000	118,887	9%	Design 5%	Expires on June 30, 2016
2013-116	3116B	bond	Police station improvements	168,000	148,993	11%	Design 90% ; complete 8/14	Expires on June 30, 2016
2013-116	3116C	bond	TH Interior Improvements	150,000	141,000	6%	Design 10%	Expires on June 30, 2016
2013-116	3116D	bond	Design Highway Operations Facility	66,000	24,191	63%	bid phase, complete by 5/14	Expires on June 30, 2016
2013-116	3116E	bond	S&G Facility Improvements	103,000	40,533	61%	Bid phase, complete 2/14	Expires on June 30, 2016
2013-116	3116F	bond	Osterville Comm Bldg Improvements	200,000	186,000	7%	RFQ 2/14	Expires on June 30, 2016
2013-116	3116G	bond	WB Community Building Improvements	72,000	52,259	27%	Complete by 1/14	Expires on June 30, 2016
2013-116	3116H	bond	US Custom House Improvements	263,000	242,754	8%	Amendment for design pending	Expires on June 30, 2016
2013-116	31161	bond	Guyer Barn Improvements	148,000	143,630	3%	Under renovation	Expires on June 30, 2016
2013-116	3116J	bond	46 & 50 Pearl St Improvements	114,000	59,197	48%	Under renovation	Expires on June 30, 2016
2013-116	3116K	bond	Comprehensive Beach Facility Planning	115,000	100,000	13%	RFQ 1/14	Expires on June 30, 2016
2013-116	3116L	bond	Lombard Parking and Ball Field Design	101,000	87,000	14%	RFQ 12/13	Expires on June 30, 2016
2013-116	3116M	bond	Osterville Cotuit & BWB Tennis Courts	500,000	485,000	3%	RFQ 1/14	Expires on June 30, 2016
2013-117	3117A	bond	Construct School St Bulkhead	142,000	131,867	7%	Projected spring 2014	Expires on June 30, 2016
2013-117	3117B	bond	Millway Boat Ramp and Dock	133,000	125,000	6%	CD phase, bid fall, 2013	Expires on June 30, 2016
2013-117	3117C	bond	Dredge East Bay Entrance Channel	600,000	-	100%	Fully expended/encumbered	Expires on June 30, 2016
			Total	20,667,000	10,361,394	50%		

# PART II. CAPITAL TRUST FUND CASH FLOW ANALYSIS

The Capital Trust Fund (CTF) is used as a mechanism to finance the Town's general fund capital improvement program within the limitations of Proposition 2½. Annually, the Town transfers a sum of money from the general fund into the CTF. The resources within the CTF are then used to make the annual loan payments on the bonds issued to finance the Town's capital program. Some of the Town's capital appropriations are financed using the reserves within the CTF as opposed to bond issues. Annually, the Town reviews the projected cash flows in and out of the CTF for the prospective 20 year period in order to measure the level of additional capital appropriations the fund can absorb.

For the most part, this fund is not the funding source for enterprise fund capital improvements. Most enterprise funds pay 100% of their capital cost which is recovered through their respective user fees. Enterprise fund capital improvements may be funded from the CTF, which is a policy decision. The two current exceptions are the bond issues for the construction of the Hyannis Youth & Community Center (HYCC) and the bond issue for the Barnstable Harbor Marina bulkhead replacement.

The FY15 general fund Capital Improvement Program includes a combination of "pay-as-you-go" or cash financing and new bond issues. The cash financing portion of the program is funded from the capital trust fund reserves, balances remaining in appropriations from completed projects and some of the General fund's reserves. This "pay-as-you-go" financing approach saves the Town thousands of dollars in the form of bond issuance and interest cost. It also provides the opportunity to have some capital program on an annual basis, and provides flexibility in its budgeting. With just a debt service program, the CTF can become saturated with loan payments and prohibit the approval of any new projects until the debt service from other projects expire. This would also reduce the Town's flexibility in resource allocation as future cash flows are committed to fixed annual loan payments.

In the event of absolute necessity, the cash portion of the program could be converted to a debt program to allow for a larger capital program up front. For example, the Town could allocate \$1 million in cash per year for capital improvements or allocate \$1 million per year towards new debt service. \$1 million in new debt service could pay for a bond issue of approximately \$8 million with an amortization period of 10 years.

Furthermore, the annual contribution from the general fund to the CTF could be decreased by the cash program portion (\$3.25M), if the need for funding general fund operations is determined to be greater than the need for the capital expenditure. There are countless scenarios that can be created to allocate the annual cash flow of the CTF between a cash and borrowing program.

The annual contribution to the CTF has grown from \$1.9 million per year to \$7.4 million in FY15. This amount is projected to increase by 2.5 percent per year in order to allocate more funds to the capital program. Even as more funds are allocated to the capital program, the Town's capital needs require a higher contribution level. Opportunities to increase this contribution are examined every year. In FY13, an additional \$7 million was transferred from the general fund reserves so as to provide for a greater level of capital funding over the next five years.

Table A on page 35 illustrates the CTF cash flow for the next 10 years incorporating all existing loan payments and the FY15 proposed capital improvement program. Table B illustrates the potential capacity within the CTF over the next ten years, and Table C provides the detailed amortization of all existing loans to be paid out of the CTF.

### **Major Assumptions Used In Table A:**

- Investment earnings will average 1% per year
- The transfer from the general fund will increase 2.5% per year
- Loan amortization on the FY15 bond issue will include:
  - o \$1,142,500 over 5 years,
  - o \$616,000 over 10 years
  - \$2,473,000 over 20 years;
- The interest rate on the bonds will range from 2.5% to 4.0% with the longer the amortization period the higher the interest rate
- The FY15 bonds will be issued at a time so that the first loan payments will not be made until FY16
- There are no savings from bond refinancing included in the projection
- The Federal government will not make any changes and the tax advantages of municipal bonds will remain intact
- No other major changes will take place in the municipal bond market
- The funding for the public roads program of \$3.25 million is repeated every year for the next 10 years.

### **Major Assumptions Used In Table B:**

In addition to all of the assumptions in Table A, bond issues ranging from \$7.5 to \$10.2 million per year are included for the FY16 through FY19 capital program with the following amortization amounts:

- \$2,230,000 over 5 years
- \$3,288,000 over 10 years
- \$3,089,000 over 15 years
- \$25,871,000 over 20 years

No additional bond issues are included beyond FY19.

# TABLE A – ESTIMATED CAPITAL TRUST FUND CASH FLOW FY 2015 – FY 2024

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
1	Beginning Trust Fund Balance	\$11,507,160	\$ 11,362,720	\$ 10,177,250	\$ 9,725,603	\$ 9,724,496	\$ 10,179,901	\$ 11,163,892	\$ 12,862,092	\$15,302,910	\$ 18,189,654
	Resources:										
2	Investment Earnings	115,072	113,627	101,773	97,256	97,245	101,799	111,639	128,621	153,029	181,897
3	Private Road Betterments Collected	75,000	70,000	65,000	60,000	55,000	50,000	45,000	40,000	35,000	30,000
4	Transfer From General Fund	7,405,141	7,588,646	7,776,723	7,969,485	8,167,050	8,369,537	8,577,069	8,789,773	9,007,777	9,231,214
5	Transfer From Special Revenue Funds	741,508	-	-	-	-	-	-	-	-	-
6	Additional Contribution From General Fund	1,791,993	-	-	-	-	-	-	-	-	-
7	Unexpended Appropriations From Prior Years	554,309	-	-	-	-	-	-	-	-	-
8	Total Current Year Resources (Lines 2 - 6)	10,683,023	7,772,273	7,943,496	8,126,741	8,319,295	8,521,336	8,733,708	8,958,394	9,195,806	9,443,111
9	Total Available Resources (Lines 1 + 7)	22,190,183	19,134,993	18,120,746	17,852,344	18,043,791	18,701,237	19,897,600	21,820,485	24,498,716	27,632,765
	Commitments:										
10	Existing Debt Service Payments	(5,295,653)	(5,088,205)	(4,535,949)	(4,278,998)	(4,025,384)	(3,709,182)	(3,440,783)	(2,927,945)	(2,724,524)	(2,214,916
11	Estimated Debt Service on FY15 CIP (\$4.2mm)	-	(519,538)	(509,194)	(498,850)	(488,506)	(478,163)	(244,726)	(239,631)	(234,537)	(233,460
12	Public Roads Program	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000
13	Other Cash Program	(2,281,810)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000
14	Total Current Year Commitments (Lines 9 through 12)	(10,827,463)	(8,957,743)	(8,395,143)	(8,127,848)	(7,863,891)	(7,537,344)	(7,035,509)	(6,517,576)	(6,309,061)	(5,798,376
15	Increase (Decrease) in Trust Fund (Line 8 - 13)	(144,440)	(1,185,470)	(451,647)	(1,107)	455,404	983,992	1,698,199	2,440,818	2,886,745	3,644,735
16	Ending Trust Fund Balance (Lines 1 + 14)	\$ 11,362,720	\$ 10,177,250	\$ 9,725,603	\$ 9,724,496	\$ 10,179,901	\$ 11,163,892	\$ 12,862,092	\$ 15,302,910	\$ 18,189,654	\$ 21,834,389

This table illustrates the Capital Trust Fund's (CTF) cash flow incorporating all existing loan payments on previously authorized projects as well as the recommended projects for FY15. Cash funded projects in FY15 total \$5,531,810 and bond funded projects total \$4,231,500. The bonds will be issued in FY15 and the first estimated loan payment of \$519,538 is anticipated to be made in FY16 as illustrated above on line 11. Line 10 in the table above includes all existing loan payments. Lines 12 and 13 include estimates on future cash appropriations for capital to be financed from the trust fund's reserves. One-time additional resources to be added to the fund in FY15 from a special revenue fund and general fund are included on lines 5 and 6, respectively. Line 7 includes appropriations from old projects that have been completed and the balances will be used to finance the FY15 program. The projected balance in the fund reaches a low of \$9.7 million at the end of FY18 and begins to grow thereafter. This indicates that the fund can absorb more annual loan payments which will allow for more bond issues beyond FY15 to fund additional capital expenditures.

# TABLE B - CAPITAL TRUST FUND ESTIMATED CAPACITY FOR THE NEXT 10 YEARS

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
1	Beginning Trust Fund Balance	\$ 11,507,160	\$11,362,720	\$10,277,250	\$ 9,187,728	\$ 7,711,273	\$ 7,012,830	\$ 4,913,152	\$ 3,553,702	\$ 3,088,737	\$ 3,193,185
	Resources:										
2	Investment Earnings	115,072	113,627	102,773	91,877	77,113	70,128	49,132	35,537	30,887	31,932
3	Private Road Betterments Collected	75,000	70,000	65,000	60,000	55,000	50,000	45,000	40,000	35,000	30,000
4	Transfer From General Fund	7,405,141	7,588,646	7,776,723	7,969,485	8,167,050	8,369,537	8,577,069	8,789,773	9,007,777	9,231,214
5	Transfer From Special Revenue Funds	741,508	-	-	-	-	-	-	-	-	-
6	Additional Contribution From General Fund	1,791,993	701,000	100,000	255,000	1,100,000	-	-	-	-	-
7	Unexpended Appropriations From Prior Years	554,309	-	-	-	-	-	-	-	-	-
8	Total Current Year Resources	10,683,023	8,473,273	8,044,496	8,376,362	9,399,163	8,489,665	8,671,201	8,865,310	9,073,664	9,293,146
9	Total Available Resources (Lines 1+8)	22,190,183	19,835,993	18,321,746	17,564,090	17,110,436	15,502,496	13,584,352	12,419,012	12,162,402	12,486,331
	Commitments:										
10	Existing Debt Service Payments	(5,295,653)	(5,088,205)	(4,535,949)	(4,278,998)	(4,025,384)	(3,709,182)	(3,440,783)	(2,927,945)	(2,724,524)	(2,214,916)
11a	Estimated Debt Service on FY15 CIP (\$4.5 mm)	-	(519,538)	(509,194)	(498,850)	(488,506)	(478,163)	(244,726)	(239,631)	(234,537)	(233,460)
11b	Estimated Debt Service on FY16 CIP (\$8.1 mm)	-	-	(738,875)	(725,436)	(711,998)	(698,559)	(685,120)	(546,094)	(535,134)	(524,174)
11c	Estimated Debt Service on FY17 CIP (\$8.7 mm)	-	-	-	(844,533)	(828,885)	(813,236)	(797,588)	(781,940)	(668,127)	(654,000)
11d	Estimated Debt Service on FY18 CIP (\$7.5 mm)	-	-	-	-	(692,833)	(680,212)	(667,591)	(654,971)	(642,350)	(512,418)
11e	Estimated Debt Service on FY19 CIP (\$10.2 mm)	-	-	-	-	-	(859,992)	(844,843)	(829,694)	(814,544)	(799,395)
12	Public Roads Program	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)	(3,250,000)
13	Other Cash Program	(2,281,810)	(701,000)	(100,000)	(255,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)
14	Total Current Year Commitments (Lines 10 through 13)	(10,827,463)	(9,558,743)	(9,134,018)	(9,852,817)	(10,097,606)	(10,589,344)	(10,030,651)	(9,330,274)	(8,969,217)	(8,288,363)
15	Increase (Decrease) in Trust Fund (Line 9 - 14)	(144,440)	(1,085,470)	(1,089,522)	(1,476,455)	(698,443)	(2,099,678)	(1,359,450)	(464,964)	104,448	1,004,783
16	Ending Trust Fund Balance (Lines 1 + 15)	\$ 11,362,720	\$ 10,277,250	\$ 9,187,728	\$ 7,711,273	\$ 7,012,830	\$ 4,913,152	\$ 3,553,702	\$ 3,088,737	\$ 3,193,185	\$ 4,197,968

Including the proposed FY15 capital program, it is estimated the Capital Trust Fund can absorb approximately \$75 million in capital expenditures over the next 10 years. Cash financed capital is estimated at \$36 million FY24 as illustrated on lines 12 and 13. Bond financed capital is estimated a \$39 million through FY19. The estimated annual loan payments on the bonds are illustrated on lines 11a through 11e. The size of this capital program will draw the reserves down in the CTF every year until FY23 as illustrated on line 15. After the FY19 bond issue, it is estimated that the next bond issue won't be until FY22, as the available resources begin to exceed the current year commitments in FY23.

# TABLE C - CAPITAL TRUST FUND DEBT AMORTIZATION SCHEDULE FOR ALL ISSUED DEBT THROUGH FY24

	Issue	Maturity	Original	P&I Payments									
Purpose	Date	Date	Amount	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Building - Police Station Construction - 2004-011	06/15/05	06/15/25	400,000	28,720	27,720	27.020	26,320	25,580	24,820	24,044	23,245	22,445	21,645
Drainage - Refunded		02/15/14	152,100				-	-			-	-	
Public Wharves-Dredging-Refunded		02/15/15	155,800	31,200	-	-	-	-	-	_	-	-	-
School Facilities Repair		02/15/17	339,000	33,600	32,400	31,200	-	-	=	-	-	=	-
BHS Cogeneration	02/15/07	02/15/17	500,000	56,000	54,000	52,000	-	-	-	-	-	-	-
Old Town Hall	02/15/07	02/15/17	295,000	33,400	32,200	26,000	-	=	-	-	=	-	-
Building - Senior Center - Refunded	02/15/07	02/15/19	702,378	93,709	92,309	90,909	89,309	37,759	11,009	9,609	8,209	6,765	5,295
School Upgrades 1	02/15/07	02/15/22	360,000	32,925	31,925	30,925	29,925	28,675	22,425	21,625	20,825	-	-
School Facilities Repair & Improvement	02/15/07	02/15/22	660,000	59,750	57,950	56,150	54,350	52,100	44,850	43,250	41,650	-	-
Beach Facilities	02/15/07	02/15/22	270,000	33,990	30,990	22,990	19,990	16,250	15,000	15,000	15,000	-	-
Land Acquisition - Hyannis Golf Course	02/15/07	02/15/26	748,000	59,775	58,175	56,575	54,975	52,975	50,975	49,375	47,775	46,125	39,445
School Health & Safety Improvements	02/15/07	02/15/26	478,000	36,911	35,911	34,911	33,911	32,661	31,411	30,411	29,411	23,380	22,540
MME Roof Replacement	02/15/07	02/15/26	750,000	59,985	58,385	56,785	55,185	53,185	51,185	49,585	47,985	46,335	44,655
School Upgrades 2	02/15/07	02/15/27	150,000	13,364	12,964	12,564	7,164	6,914	6,664	6,464	6,264	6,058	5,848
BHMCS Roof	02/15/07	02/15/27	910,000	69,874	68,074	66,274	64,474	62,224	59,974	58,174	56,374	54,518	52,628
Senior Center - Garden Level	02/15/07	02/15/27	457,000	30,519	29,719	28,919	28,319	22,569	21,819	21,219	20,619	20,000	20,000
Town Building Repairs & Renovations	02/15/07	02/15/27	685,000	46,905	45,905	44,905	43,905	42,655	41,655	40,855	40,055	39,230	38,390
MWPAT CW-04-31	11/09/07	07/15/20	389,216	33,999	33,999	33,999	33,999	33,999	33,999	33,999	-	-	- 1
Coastal Water Quality Improvements	06/15/08	06/15/18	250,000	27,960	27,120	26,040	25,140	-	-	-	-	-	-
Lake & Pond Improvements	06/15/08	06/15/18	250,000	27,960	27,120	26,040	25,140	-	-	-	-	-	- 7
Land Acquisition - CAP	06/15/08	06/15/23	365,200	32,850	32,010	30,930	30,030	28,890	27,930	26,970	26,010	25,020	-
Private Road Repairs	06/15/08	06/15/23	1,607,900	146,456	142,711	137,896	133,884	128,801	124,521	120,241	115,961	111,548	-
Bismore Park Visitor Center - CAP	06/15/08	06/15/23	150,000	13,688	13,338	12,888	12,513	12,038	11,638	11,238	10,838	10,425	-
Bismore Park Visitor Center	06/15/08	06/15/23	465,000	42,431	41,346	39,951	38,789	37,316	36,076	34,836	33,596	32,318	-
Pleasant St. Dock - 1	06/15/08	06/15/23	350,000	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926	23,978	-
Pleasant St. Dock - 2	06/15/08	06/15/23	350,000	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926	23,978	-
Boat Ramps - CAP	06/15/08	06/15/23	927,000	84,659	82,489	79,699	77,374	73,429	70,989	68,549	66,109	63,593	-
School Facility Improvements	06/15/08	06/15/28	916,600	52,988	51,763	45,188	44,063	42,638	41,438	40,238	39,038	37,800	36,525
Municipal Building Improvements	06/15/08	06/15/28	297,000	13,106	7,756	7,531	7,344	7,106	6,906	6,706	6,506	6,300	6,088
School Building Improvements	06/15/10	06/15/30	800,000	65,700	64,845	62,708	56,298	55,337	53,413	52,260	51,106	49,856	48,606
Highway Facility	06/15/10	06/15/30	136,000	11,169	11,024	10,660	9,571	9,407	9,080	8,884	8,688	8,475	8,263

# TABLE C - CAPITAL TRUST FUND DEBT AMORTIZATION SCHEDULE FOR ALL ISSUED DEBT THROUGH FY24 - CONTINUED

	Issue	Maturity	Original	P&I Payments									
Purpose	Date	Date	Amount	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
School Facility Improvements	06/15/10	06/15/14	1,000,000	-	-	-	-	-	-	-	-	-	_
Bismore Park Improvements	06/15/10	06/15/14	74,000	-	-	-	-	-	-	-	-	=	_
Dredging	06/15/10	06/15/24	419,250	40,475	39,875	38,375	36,875	36,125	34,625	33,725	32,825	31,850	25,875
Lake Treatment	06/15/10	06/15/25	275,000	26,975	26,575	25,575	24,575	24,075	23,075	17,475	17,025	16,538	16,050
Municipal Facility Improvements	06/15/10	06/15/29	402,500	7,719	7,619	7,369	7,119	6,994	6,744	6,594	6,444	6,281	6,119
Police Facility	06/15/10	06/15/30	508,000	39,594	39,094	37,844	36,594	35,969	34,719	33,969	33,219	32,406	31,594
Nitrogen Management CW-04-31-A	03/15/11	07/15/20	211,460	23,330	23,330	23,330	23,330	23,330	23,330	23,330	=	-	_
School Facilities Upgrades/Repairs V	06/14/11	06/15/31	884,000	72,769	71,419	70,069	68,719	66,919	65,119	63,319	61,519	59,719	57,919
School Facilities Upgrades/Repairs I	06/14/11	06/15/16	65,000	10,600	10,300	-	-	-	=	-	-	-	_
School Equipment	06/14/11	06/15/16	193,000	37,100	36,050	-	-	-	=	-	-	-	-
Traffic Calming	06/14/11	06/15/16	50,000	10,600	10,300	ı	-	-	-	-	-	-	1
Municipal Facility Upgrades/Repairs - MEA Building	06/14/11	06/15/16	114,000	21,200	20,600	1	=	=	=	=	=	-	-
Police Dept. Emergency Generator	06/14/11	06/15/16	271,000	58,150	51,500	-	=	-	=	=	-	-	-
Dredging - 98-097 Refunded	06/14/11	06/15/16	144,000	37,100	36,050	-	-	=	=	-	-	-	-
Mill Pond Dredge & Lake Wequaquet Planning	06/14/11	06/15/16	430,000	90,100	87,550	-	-	-	=	-	-	-	
Wastewater Management Planning	06/14/11	06/15/16	600,000	127,200	123,600	-	-	-	-	-	-	-	-
Advance Refund 6/15/2002 Land Acquisitions BUTAPS	06/14/11	06/15/20	1,102,000	168,050	163,850	154,650	145,600	140,400	135,200	-	-	-	-
School Parking Lot	06/14/11	06/15/21	250,000	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-	-	-
School Facilities Upgrades/Repairs IV	06/14/11	06/15/21	332,000	42,950	41,900	40,850	34,800	33,600	32,400	31,200	-	-	-
Bridge Repair	06/14/11	06/15/21	250,000	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-	-	-
Sidewalk Improvements	06/14/11	06/15/21	350,000	43,750	42,700	41,650	40,600	39,200	37,800	36,400	-	=	-
Building - Town Hall Space - 00-110 Refunded	06/14/11	06/15/21	180,000	24,880	24,280	23,680	23,080	21,280	20,520	19,760	-	-	-
Municipal Facility Improvement	06/14/11	06/15/21	300,000	37,500	36,600	35,700	34,800	33,600	32,400	31,200	-	-	-
Boat Ramp Renovations	06/14/11	06/15/21	250,000	31,250	30,500	29,750	29,000	28,000	27,000	26,000	=	=	=
Dredging East Bay & Blish Point	06/14/11	06/15/21	665,000	81,250	79,300	77,350	75,400	72,800	70,200	67,600	=	-	_
School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	6,450	6,300	6,150	6,000	5,800	5,600	5,400	5,200	-	-
Building - Town Hall Repairs - 01-087 Refunded	06/14/11	06/15/22	100,000	12,860	12,560	12,260	11,960	11,560	11,160	10,760	9,360	=	-
School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	19,663	19,213	13,763	13,463	13,063	12,663	12,263	11,863	11,463	11,063
School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	20,213	19,763	19,313	18,863	18,263	12,663	12,263	11,863	11,463	11,063
School Improvement	06/14/11	06/15/26	487,000	48,738	47,688	46,638	45,588	39,188	37,988	36,788	35,588	34,388	33,188
Baxter Neck Road's Neck Road - Private Way	06/14/11	06/15/26	350,000	34,975	34,225	33,475	32,725	31,725	30,725	29,725	23,725	22,925	22,125
Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	57,450	56,250	55,050	53,850	52,250	50,650	49,050	47,450	45,850	44,250
Advance Refund 6/15/2003 Main St. Hyannis Infr. Improv.	04/18/12	09/15/20	39,100	6,048	5,898	5,723	5,523	5,348	5,198	4,162	-	-	-
Advance Refund 6/15/2003 School Remodel II	04/18/12	09/15/22	193,400	25,580	24,980	24,280	23,480	22,780	22,180	21,580	17,940	15,300	=
Advance Refund 6/15/2003 School Remodel I	04/18/12	09/15/22	242,700	33,029	32,249	31,339	30,299	29,389	28,609	22,806	21,192	20,196	-
Adavance Refund 6/15/2003 Drainage	04/18/12	09/15/22	193,200	25,628	25,028	24,328	23,528	22,828	22,228	21,628	18,968	15,504	-
Advance Refund 6/15/2003 Rink Improvements	04/18/12	09/15/22	96,600	13,114	12,814	12,514	12,164	11,764	11,414	11,114	10,814	7,064	132
Advance Refund 6/15/2003 Police Facility Addition	04/18/12	09/15/22	626,900	83,382	81,432	79,157	76,557	71,229	67,500	65,700	63,600	61,200	ı
Advance Refund 6/15/2003 Drainage	04/18/12	09/15/22	96,700	12,818	12,518	12,168	11,768	11,418	11,118	10,818	10,468	6,834	

# TABLE C – CAPITAL TRUST FUND DEBT AMORTIZATION SCHEDULE FOR ALL ISSUED DEBT THROUGH FY24 – CONTINUED

	Issue	Maturity	Original	P&I Payments									
Purpose	Date	Date	Amount	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Nitrogen Management CW-04-31-B Series 16	06/13/12	07/15/20	539,860	72,781	72,879	72,977	73,078	73,182	73,288	73,395			
School Roof Repairs	11/22/13	11/15/23	600,000	75,000	73,500	71,700	70,200	69,000	67,500	65,700	63,900	62,250	60,750
HS Library AC Units	11/22/13	11/15/23	450,000	56,250	55,125	53,775	52,650	51,750	50,625	49,275	47,925	46,688	45,563
School Fire & Communications System	11/22/13	11/15/23	200,000	25,000	24,500	23,900	23,400	23,000	22,500	21,900	21,300	20,750	20,250
School Computer Network Infrastructure	11/22/13	11/15/23	189,000	28,640	24,100	23,500	23,000	22,600	22,100	21,500	15,975	15,563	15,188
Intermediate School roof & Façade Design	11/22/13		100,000	22,200	21,700	21,100	20,600	20,200	,	,	,	,	,
School Hot Water Pump Replacement	11/22/13	11/16/19	85,000	21,850	21,350	15,825	15,450	15,150					
School Gym Bleacher Upgrades	11/22/13	11/17/19	55,000	16,150	10,850	10,550	10,300	10,100					
School Grounds Maintenance Equipment	11/22/13	11/18/19	150,000	33,300	32,550	31,650	30,900	30,300					
School Kitchen equipment	11/22/13	11/19/19	110,000	27,400	26,775	21,100	20,600	20,200					
Private Road Repairs	11/22/13	11/15/23	633,000	83,730	79,075	77,125	75,500	74,200	72,575	65,700	63,900	62,250	60,750
Water Quality Evaluation	11/22/13	11/15/23	230,000	30,700	30,075	29,325	28,700	28,200	27,575	21,900	21,300	20,750	20,250
Sewer Expansion Analysis	11/22/13	11/19/19	70,000	16,550	16,175	15,725	15,350	10,100					
Sidewalk Overlays	11/22/13	11/15/23	190,000	24,750	24,250	23,650	23,150	22,750	22,250	21,650	21,050	15,563	15,188
Bumps River Bridge Repair	11/22/13	11/15/23	120,000	17,950	17,575	17,125	16,750	11,500	11,250	10,950	10,650	10,375	10,125
Guardrail Replacements	11/22/13	11/19/19	60,000	16,300	15,925	10,550	10,300	10,100					
Tennis Courts	11/22/13	11/15/23	500,000	62,500	61,250	59,750	58,500	57,500	56,250	54,750	53,250	51,875	50,625
US Customs House upgrades	11/22/13	11/15/23	263,000	39,480	35,700	29,875	29,250	28,750	28,125	27,375	26,625	25,938	25,313
Osterville Community Building Upgrades	11/22/13	11/15/23	200,000	25,000	24,500	23,900	23,400	23,000	22,500	21,900	21,300	20,750	20,250
Police Station Upgrades	11/22/13	11/15/23	168,000	27,130	23,600	23,000	17,550	17,250	16,875	16,425	15,975	15,563	15,188
Town Hall Interior Upgrades	11/22/13	11/15/23	150,000	18,750	18,375	17,925	17,550	17,250	16,875	16,425	15,975	15,563	15,188
Guyer Barn Upgrades	11/22/13	11/15/23	148,000	21,655	18,250	17,800	17,425	17,125	16,750	16,300	15,850	15,438	10,125
MEA Facility Upgrades	11/22/13	11/15/23	131,000	19,210	17,825	17,375	17,000	16,700	16,325	10,950	10,650	10,375	10,125
Beach Facility Design	11/22/13	11/19/19	115,000	27,550	26,925	26,175	20,600	20,200					
Pearl St Building Upgrades	11/22/13	11/15/23	114,000	21,740	17,325	11,950	11,700	11,500	11,250	10,950	10,650	10,375	10,125
S&G Facility Roof Repairs	11/22/13	11/15/23	103,000	15,530	12,250	11,950	11,700	11,500	11,250	10,950	10,650	10,375	10,125
Lombard Parking & Ballfield Design	11/22/13	11/19/19	101,000	23,210	21,700	21,100	20,600	20,200					
West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	13,720	11,450	11,150	10,900	5,750	5,625	5,475	5,325	5,188	5,063
Highway Operations Facility Construction	11/22/13	11/15/23	66,000	12,610	11,350	11,050	5,850	5,750	5,625	5,475	5,325	5,188	5,063
East Bay Dredging	11/22/13	11/15/23	600,000	75,000	73,500	71,700	70,200	69,000	67,500	65,700	63,900	62,250	60,750
Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	25,420	17,975	17,525	17,150	16,850	16,475	16,025	10,650	10,375	10,125
Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	21,230	17,825	17,375	17,000	16,700	16,325	10,950	10,650	10,375	10,125
TOTAL GENERAL FUND DEBT SERVICE				3,849,829	3,676,611	3,161,965	2,940,088	2,730,131	2,455,548	2,223,469	1,746,951	1,580,936	1,115,552
Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	62,431	61,231	60,031	58,831	57,231	55,631	54,031	52,431	50,831	44,231
HYCC 1	02/15/07	02/15/27	1,000,000	77,138	75,138	73,138	71,138	69,138	66,638	64,638	62,638	60,575	58,475
HYCC 2	02/15/07	02/15/27	8,000,000	621,100	605,100	589,100	573,100	553,100	533,100	517,100	501,100	484,600	467,800
HYCC 3	02/15/07	02/15/27	1,600,000	124,220	121,020	117,820	114,620	110,620	106,620	103,420	100,220	96,920	93,560
HYCC 4	06/15/08	06/15/28	6,765,000	535,935	524,105	508,895	496,220	480,165	466,645	453,125	439,605	425,663	410,298
TOTAL ENTERPRISE FUND DEBT SERVICE				1,420,824	1,386,594	1,348,984	1,313,909	1,270,254	1,228,634	1,192,314	1,155,994	1,118,589	1,074,364
Tempoary interest on bond anticipation notes				25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
GRAND TOTAL ALL DEBT SERVICE				5,295,653	5,088,205	4,535,949	4,278,998	4,025,384	3,709,182	3,440,783	2,927,945	2,724,524	2,214,916

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# **Part III. Debt Position Analysis**

### A. TYPE AND PURPOSE OF DEBT

The Town sells bonds to finance major capital improvements that require large cash outlays. General Obligation Bonds (GOB) have been sold to fund capital improvements managed by various municipal operations such as schools, public works, recreation, conservation, and the Town's enterprise fund operations. General Obligation Debt, (GOD), is supported by the full faith and credit of the Town and is repaid from property taxes collected from both current and future property owners throughout the term of the debt, except for the bonds issued to fund most capital improvements for enterprise fund operations. Although property taxes are pledged as collateral for enterprise fund GOB's, most of the bonds are repaid with revenue generated by the enterprise funds and not property taxes. This arrangement provides for more favorable borrowing rates for enterprise fund debt and is required by Massachusetts General Laws. Alternatively, enterprise funds would have to issue what are referred to as "Revenue Bonds", which would typically carry much higher interest rates, as the collateral is enterprise fund revenue as opposed to property taxes.

Properly structured municipal debt is tax exempt. This feature is attractive to many investors who, in turn, require less interest than they would from non-tax-exempt investments. Typical rates for municipal bonds over the past several years have been in the 1.5% to 4% range. Rates remain low in FY14 as the economy is making municipal bonds more attractive for highly rated communities. When netted out against inflation, municipal borrowing costs – especially for strong credit worthy Towns such as Barnstable – are enviable.

The Town operates several enterprise funds including the airport, two golf courses, a wastewater treatment facility, a solid waste transfer station, water supply operations, four marinas, Sandy Neck Park and the Hyannis Youth & Community Center. These funds are expected to repay their debt from the revenues that they generate unless it is determined that a General Fund contribution is necessary to provide for some fee mitigation. In addition, the Town has borrowed on behalf of the Community Preservation Fund (CPF) that was created by general legislation to enable Towns in the Commonwealth to acquire open space and to finance community housing and historic preservation projects. The CPF, a special revenue fund, is funded with a three percent surtax on each real estate tax bill. The Commonwealth provides a partial matching program for the surtax billed from a state trust account, which is funded by real estate transfer taxes. The matching program is expected to decline as more communities adopt the CPF, real estate transactions declining, as well as a decline in the State's trust fund balance.

# **B. CURRENT DEBT POSITION**

As of June 30, 2013, the Town of Barnstable had \$118.1 million of outstanding long-term debt. New debt issued in FY13 was \$1.5 million and existing debt retired was \$12.7 million, representing a \$11.2 million net decrease in the outstanding long-term debt level from June 30, 2012. These debt figures include all debt incurred on behalf of the enterprise funds and the Community Preservation Fund.

Several factors determine the amount of debt the Town can afford to maintain. These include the strength of the local economy, the wealth of the community, the amount of debt sold by overlapping jurisdictions (the County, Cape Cod Regional Transit Authority and Cape Cod Regional Technical High School), and future capital needs. These factors influence the Town's bond rating - an evaluation of the Town's ability to repay debt as determined by the rating agencies. Rating agencies examine the local economy as well as the Town's financial position, administrative capabilities, and level of planning. System improvements such as programmatic budgeting, an administrative code, policy planning based on a ten-year forecast, and financial fund

management have helped the Town's position. In their most recent bond rating analysis dated November 8, 2013, Standard & Poor's affirmed the 'AAA' rating on the Town's outstanding debt. This included a stable outlook. The rating reflects S&P's assessment of the Town's demonstrated market access and strong financial position and fiscal management, good income levels and high per capita market value and a primarily residential property tax base that is among the largest in Massachusetts.

### **Projected Debt Payments by Project and Fund**

The following four tables set forth the projected General Obligation Debt (G.O.D.) payments by project for both the Town's governmental funds and the enterprise funds.

It is significant to note that the State reimburses for school construction projects at the rate of 64% including interest costs incurred, as well as several MWPAT loans for sewer construction, water system improvements and landfill capping loans. The State will contribute \$19.7 million in school building assistance grants and MWPAT subsidies over the remaining life of the outstanding bonds.

### Bonds Payable Schedule - Governmental Funds (Excludes Enterprise Fund Debt)

Project	Maturities Through	Original Loan Amount	Coupon Rate (%)	Outstanding at June 30, 2012	Issued	Redeemed	Outstanding at June 30, 2013
MWPAT Title V Bond of 1997	2021	\$200,000	0.00	\$93,403	-	(\$10,400)	\$83,003
MWPAT Title V Bond of 2002	2023	200,000	0.00	109,908	-	(9,724)	100,184
Municipal Purpose Bonds of 2003	2013	7,014,000	2.00 - 4.00	355,000	-	(355,000)	-
Municipal Purpose Bonds of 2004	2014	11,783,000	3.00 - 5.00	1,240,000	-	(620,000)	620,000
Municipal Purpose Bonds of 2005	2025	6,280,000	3.25 – 5.00	4,075,000	-	(315,000)	3,760,000
MWPAT Title V Bond of 2006	2026	400,000	0.00	280,000	-	(20,000)	260,000
MWPAT Title V Bond of 2007	2027	200,000	0.00	150,000	-	(10,000)	140,000
Municipal Purpose Bonds of 2007	2027	46,664,000	3.38 – 4.75	32,345,000	-	(4,020,000)	28,325,000
MWPAT Bond of 2008 (CW-04-31)	2021	389,216	2.00	280,044	-	(28,685)	251,359
Municipal Purpose Bonds of 2008	2028	6,861,000	3.75 – 4.50	4,222,000	-	(637,000)	3,585,000
MAPAT Bond of 2009	2021	887,454	2.00	732,026	-	(19,684)	712,342
Municipal Purpose Bonds of 2010	2030	4,947,270	2.00 - 5.00	3,830,000	-	(540,000)	3,290,000
Municipal Purpose Bonds of 2011	2031	16,176,000	2.00 – 4.00	15,300,000	-	(1,845,000)	13,455,000
Municipal Purpose Refunding of 2012	2023	10,037,900	2.00 – 4.00	10,037,900	-	(868,400)	9,169,500
Total Bonds Payable				\$73,050,281	-	(\$9,298,893)	\$63,751,388

Debt service requirements for principal and interest for Governmental bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2014	9,025,234	2,701,093	11,726,327
2015	8,197,588	2,124,371	10,321,959
2016	7,954,994	1,836,324	9,791,318
2017	7,642,450	1,541,326	9,183,776
2018	7,594,957	1,253,186	8,848,143
2019	7,613,519	915,164	8,528,683
2020	4,172,133	577,593	4,749,726
2021	3,188,605	425,148	3,613,753
2022	2,693,204	308,910	3,002,114
2023	2,073,704	203,045	2,276,749
2024	970,000	137,578	1,107,578
2025	935,000	101,223	1,036,223
2026	610,000	65,719	675,719
2027	365,000	42,856	407,856
2028	250,000	28,478	278,478
2029	215,000	18,650	233,650
2030	210,000	10,052	220,052
2031	40,000	1,656	41,656
Total	\$63,751,388	\$12,292,372	\$76,043760
10001	703,731,300	Y12,232,372	\$70,0 <del>1</del> 3700

The Commonwealth of Massachusetts has approved school construction assistance to the Town. The assistance program, which is administered by the Massachusetts School Building Authority, provides resources for construction costs and debt service interest of general obligation bonds outstanding. The Town is currently receiving annual payments for 64% of eligible costs in relation to the construction of the Grade 4/5 School in Marstons Mills and the renovation and expansion of the Barnstable Intermediate School and Barnstable High School. During fiscal year 2013, \$3,509,000 of such assistance was received. Approximately \$19,953,000 will be received in future years. Of this amount, \$1,854,000 represents reimbursement of future long-term interest costs and \$18,099,000 represents reimbursement of approved construction cost.

# Bonds Payable Schedule - Enterprise Funds

Project	Maturities Through	Original Loan Amount	Coupon Rate (%)	Outstanding at June 30, 2012	Issued	Redeemed	Outstanding at June 30, 2013
Golf Course	2025	\$4,450,000	5.00	\$3,390,000	\$ -	(\$240,000)	\$3,150,000
Wastewater	2032	34,940,442	0.00 - 4.75	20,779,651		(1,323,134)	19,456,517
Water	2033	15,208,525	2.00 – 5.00	11,785,066	1,508,907	(521,866)	12,772,107
Marinas	2030	3,774,000	3.00 – 5.00	1,564,000		(125,000)	1,439,000
Solid Waste	2027	8,405,700	0.00 - 4.50	3,457,500		(260,900)	3,196,600
Sandy Neck	2031	1,365,000	4.00	1,215,000		(50,000)	1,165,000
Hyannis Youth & Community Center	2028	17,365,000	3.375 – 5.00	13,354,000		(869,000)	12,485,000
Airport	2031	730,000	2.00 – 4.12	705,000		(25,000)	680,000
Total Bonds Payable				\$56,250,217	\$1,508,907	(\$3,414,900)	\$54,344,224

Debt service requirements for principal and interest for enterprise bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2014	\$3,934,184	\$1,803,172	\$5,737,356
2015	3,955,593	1,636,181	5,591,774
2016	3,852,858	1,497,038	5,349,896
2017	3,915,467	1,355,313	5,270,780
2018	3,661,948	1,205,795	4,867,743
2019	3,739,637	1,071,554	4,811,191
2020	3,365,962	937,692	4,303,654
2021	3,258,620	830,111	4,088,731
2022	3,286,836	725,791	4,012,627
2023	3,354,010	617,388	3,971,398
2024	3,280,658	508,496	3,789,154
2025	3,189,287	407,886	3,597,173
2026	2,948,404	305,347	3,253,751
2027	3,008,022	212,911	3,220,933
2028	1,758,148	118,646	1,876,794
2029	980,568	78,543	1,059,111
2030	970,854	56,097	1,026,951
2031	947,712	33,137	980,849
2032	462,700	14,981	477,681
2033	472,756	5,646	478,402
Total	\$54,344,224	\$13,421,725	\$67,765,949

The Town is scheduled to be subsidized by the Massachusetts Water Pollution Abatement Trust (MWPAT) on a periodic basis for principal in the amount of \$1,628,883 and interest costs for \$909,150. Since the Town is legally obligated for the total amount of the debt, such amounts are included in the tables above. The fiscal year 2013 principal and interest subsidies totaled \$130,525 and \$343,444, respectively.

The Town is subject to various debt limits by statute and may issue additional general obligation debt under the normal debt limit. On June 30, 2013, the Town had the following authorized and un-issued debt:

Sewer Projects	\$14,683,813
Water Projects	9,326,656
Wind Turbine	1,850,000
Highway Complex Feasibility and Design	66,900
Dredging Projects	929,000
Road Projects	1,284,827
Airport Projects	40,563,989
Security Fencing at Landfill	160,000
Effluent Mitigation	1,393,950
Bismore Park Improvements	426,000
Land Acquisitions	655,000
Energy Improvements	1,822,000
Facility Improvements	2,065,775
School Improvements	1,939,600
Fuel Farm	810,000
Total	\$77,977,510

# C. GENERAL OBLIGATION DEBT – CREDIT RATINGS

In November 2013, the Treasurer conducted a \$6.2 million bond refunding. This sale required a rating agency analysis. S&P change their criteria and analytical framework used for evaluating credit and the Town maintained its **AAA** rating using their new criteria and framework. S& P cited the following reasons for their rating:

- A very strong economy, which participates in the strong Boston metropolitan statistical area (MSA)
- Very strong budgetary flexibility, with 2012 available reserves in excess of 20% of general fund expenditures
- Strong budgetary performance and stable and consistent revenue profile
- Very strong liquidity, providing very strong cash levels to cover both debt service and expenditures
- Very strong management practices and policies that we believe are embedded and sustainable
- Adequate debt and contingent liabilities
- Strong institutional framework.

The descriptor used by S&P for this rating is "Prime Investment Grade". Only twenty other communities in Massachusetts have an AAA rating from S&P. Strong bond ratings generally reduce interest expense to service the debt as well as bond insurance costs. Additionally, strong bond ratings enhance the prestige of the community within the financial markets and are a vote of confidence by the rating agency that the municipality is pursuing a sound financial course. This AAA rating reflects sound credit quality with associated very low risk and should result in future low borrowing costs for the Town. In August 2007, Moody's Rating Services upgraded its bond rating for the Town from Aa3 to Aa1, a two-step increase.

It is important to understand that no single ratio or factor determines a General Obligation Bond rating or fully encompasses the fiscal health of a municipality. The factors must be taken as a group. Other debt ratios, as well as economic and administrative factors account for the differences in ratings. A growing community can afford more debt than a non-growth area and a community with more income wealth can afford more debt than a poor community. The following is a list of additional factors that the financial community uses in evaluating an issuer's credit rating:

- Economic health and diversification
- Fund balances (free cash and other reserves)
- Evidence of regular planning for capital improvements by the issuer
- Review of the issuer's Capital Improvements Program for its effect on future debt needs
- The willingness of the community, from time to time, to approve Proposition 2½ overrides and/or debt exclusions
- Consideration of projected debt requirements
- The issuer's financial controls related to budgetary matters
- The issuer's long-range planning, particularly zoning and land-use planning
- The range and level of services provided by the issuer in relation to its capacity to provide services
- Flexibility in the ability to raise revenue
- The community's ability to address unfunded pension system and other post-employment benefits obligations.

Generally, bond ratings do not change suddenly but respond more to long-range trends. However, dramatic changes are key indicators of fiscal health and can result in a more immediate rating change. In projecting bond ratios, it is important to review the sensitivity of the ratios to changes in the economy.

### Extract from Standard & Poor's Credit Profile of Barnstable Printed November 8, 2013

"The stable outlook reflects our view of the town's focus on maintaining strong operating flexibility. We believe an improved economic outlook and predictable operating profile will result in balanced operations. While Barnstable maintains an adequate debt and liability profile, and despite pension and OPEB costs that are expected to continue rising through the medium term, we do not anticipate weakened performance or liquidity measures, due to the town's very strong management practices. Steady economic development in recent years should aid tax base stability and provide additional future tax revenue. For these reasons, we do not expect to change the rating within the two-year outlook horizon."

### D. GENERAL OBLIGATION DEBT - LIMITATIONS

There are several legal limitations that govern the issuance of municipal debt. Under Massachusetts statutes, the debt limit of the Town of Barnstable 5 percent of the valuation of taxable property as last equalized by the State Department of Revenue. The Town can authorize debt up to this amount without State approval. The current debt limitation for the Town of Barnstable is close to \$700 million which is significantly higher than the Town's outstanding general obligation debt that is subject to this limitation. It should be pointed out that much of the existing Town debt does not factor into this limitation. There are many categories of general obligation debt that are exempt from, and do not count against the debt limit. To name a few among many; certain school bonds, water bonds, solid waste disposal facility bonds, and water pollution abatement revenue bonds are not subject to the debt limit.

Proposition 2 ½ (Chapter 580 of the Acts of 1980) also impacts the amount of municipal debt that can be issued. These limiting factors are the Primary Levy Limit and the Maximum Levy Limit and restrict the permitted amount of tax levy increase from year to year. In order to exceed these legal limits, an override initiative would need to be voted to exclude a particular debt issue or a portion of a debt issue from the effects of these limitations. The Town's primary levy limit for FY2014 was calculated as follows:

FISCAL YEAR 2013 PRIMARY LEVY			\$97,982,651
Add:			
2.5% of FY13 Primary Levy		\$2,449,566	
FY 2014 New Building Growth		793,387	
FY 2014 Debt Payments Excluded		1,871,791	
FY 2014 Cape Cod Commission Assessment		540,854	
Total Additions		\$5,655,598	
FISCAL YEAR 2014 TAX LEVY LIMIT			\$103,638,249

# **E. GENERAL OBLIGATION DEBT - AFFORDABILITY**

Debt analysis, future debt projections and general obligation bond ratios help determine the amount of general obligation debt the Town can afford to issue and support. The table on the following page illustrates the various debt ratios compared to national medians reported by Standard and Poor's. As shown, Barnstable's ratios show moderate amounts of debt. There are a number of factors not directly under the control of the Town that impact key General Obligation (G.O.) bond ratios. Several of the G.O. bond ratios are very sensitive

to these uncontrollable factors, and the assumptions used to project their growth can play an important role in future debt policy. Some of these factors are:

Overlapping Debt. Overlapping debt is the G.O. debt that is issued by other government entities whose jurisdictions include the citizens of Barnstable. The Town also has to be aware of the debt management practices of overlapping jurisdictions. The primary entities that have an impact on the Town are Barnstable County, Cape Cod Regional Vocational Technical School District and the regional transportation authority. Overlapping debt combined with the Town's own direct debt is a true measure of the G.O. debt burden placed on the citizens. To determine an issuer's overall G.O. debt burden, overlapping debt is added to the issuer's own outstanding G.O. debt. If other overlapping jurisdictions pursue aggressive capital improvement programs, some of the Town's debt ratios will increase. Therefore, it is important to be aware of not only our G.O. debt issuance plans, but also those of other surrounding jurisdictions.

*Property Assessments.* Several key debt ratios use property valuations in the calculation of debt burden. If the Town's property values were to rise, debt ratios will continue to improve.

#### **Town of Barnstable Debt Ratios**

<u>Current Status</u>	<u>Criteria</u>
0.46%	Direct Debt - General fund debt as a % of the town's FY13 equalized property valuation as calculated by the state.
	Formula – Overall general fund debt ÷ Equalized valuation
	Standard & Poor's rates this as low (favorable)
6.73%	Municipal Debt Burden – Current Year
expend	Definition - Town's general fund debt service $\div$ Total general fund ditures
	Standard & Poor's rates this as moderate
\$1,701	Net Direct Debt Per Capita
	Definition – Governmental fund net debt ÷ Town population
	Standard & Poor's rates this as low (favorable)
\$309,305	Per Capita Market Value
	Definition – Equalized valuation ÷ Population
	Standard & Poor's rates this as very high (favorable)

### F. ADMINISTRATIVE POLICES IN RELATION TO DEBT

This section provides policies governing the management of debt for the Town that are included in the Town's Administrative Code.

### **Debt Refinancing**

An advance refunding of outstanding debt shall only be considered when present value savings of at least 3% of the principal amount of the refunded bonds are produced, unless: (1) a debt restructuring is necessary or (2) bond covenant revisions are necessary in order to facilitate the ability to provide services or to issue additional debt. The Town, in collaboration with its Financial Advisor, continually monitors municipal bond market conditions to identify refinancing opportunities. An analysis shall be conducted when necessary to determine whether debt financing, cash purchase, or leasing is the most cost effective method of financing for the Town.

### **General Obligation Debt**

- 1. All debt shall be financed within the limitations of Proposition 2 1/2 with the exception of debt related to enterprise funds, gifts, and betterments. The requirements for such financing shall be an expenditure of at least \$250,000 and a useful life in excess of five years.
- 2. The term of long-term debt generally shall not exceed the expected useful life of the capital asset being financed and, in no case, shall it exceed twenty years.
- 3. The ratio of Net Debt (Total outstanding Town of Barnstable General Obligation debt less reimbursements) to Total Assessed Valuation shall not exceed 1.5%. This excludes debt of overlapping jurisdictions.

#### The current ratio for the Town of Barnstable is 0.37%.

4. The ratio of Debt Service to Total Expenditures (operating expenditures and debt service combined) shall not exceed 15%.

### The Town's current ratio is 7.5%.

5. The Town shall target a Standard and Poor's (S&P) debt to income ratio of 8%. The S&P ratio is calculated by dividing Overall Net Debt per Capita by Income per Capita.

### The Town's current ratio is 3.4%.

6. Current revenue should be committed annually to provide sufficient "Pay-as-you-go" financing so that at the end of five years, annual contributions from current revenues amount to 10% of new debt to be issued.

The Town currently exceeds this requirement by a significant margin. The Town intends to spend over \$16 million in the next five years as "pay—as-you-go" financing and anticipates financing about \$30 million in capital with new debt issues resulting in a 35/65 ratio.

7. Excess appropriated bond issues shall be placed into a "bond repayment fund account" at the end of a project completion. The only purpose of the "bond repayment fund account" shall be 1) to make bulk principal

pay-downs against general bond debt, or 2) to be used to pay down the principal on any bond issue at the time of refinancing as provided for in Section 1.04C herein.

The Town currently has no balance in this fund.

### **Capital Trust Fund**

A capital trust fund has been established for the purpose of financing debt service for recommended Capital Improvement Program projects, as contained within the Town's five-year capital improvement plan.

- 1. The Capital Trust Fund will be funded through a general operation set aside of at least \$1.9 million annually. The annual commitment for FY 2014 was approximately \$7.1 million. This is expected to be repeated for the next 5 years.
- 2. The Capital Trust Fund shall not be utilized for any purpose other than that stated herein.
- 3. The criteria for reviewing capital project eligibility for Capital Trust Fund borrowing include the following:
  - a. The capital project shall have a financing term of 20 years or less,
  - b. The capital project shall have a minimum project cost of \$250,000,
  - c. The capital project is approved by the Town Council for funding through an appropriation and loan order submitted by the Town Manager.
- 4. The Capital Trust Fund will have a debt service restriction on the fund, such that debt service estimates from authorized loan orders shall not exceed, at any one time, more than 80% of the amount in the fund as of the close of the fiscal year prior to the next debt service authorization, unless recommended by the Town Manager.
- 5. The Capital Trust Fund shall otherwise function in accordance with related financial policies of the Town.

# **G. DEBT SUMMARIZED**

A responsible debt management program is an integral part of municipal finance. A Town's debt must be structured to reflect the underlying, long-term economic prospects of the community. There are statutory requirements and market forces at work to regulate a community's ability to borrow. Continuing disclosure, as required on an annual basis to the bond markets, provides a powerful incentive for a municipality to keep its financial house in order. This analysis has emphasized the importance of credit ratings because, in effect, these are municipal finance report cards. A good credit rating should be guarded jealously, since it is not easily obtained, but can be lost quickly without vigilance and sound financial management.

# Part IV. PROJECT DETAIL FY 2014 - FY 2018

### **ENTERPRISE FUND PROJECTS**

### AIRPORT ENTERPRISE FUND

PROJECT: AIR-15 -1 DEPARTMENT PRIORITY: 1 of 22

Project Working Title: RUNWAY AND TAXIWAY MARKINGS AND AIRPORT-OWNED ROADWAYS

**ANNUAL PAINTING CONTRACT** 

**Project Location:** 480 Barnstable Road, Hyannis, MA

**Project Description:** Airport Runway and Taxiway Markings require annual operational and maintenance painting in order to meet FAA FAR Part 139 Inspection requirements to maintain the Airport FAA Certification. In addition, all Airport-owned roadways require annual maintenance painting for roadway and pedestrian safety. This project will combine both recurring painting requirements into one annual recurring contract.

**Project Justification:** The Barnstable Municipal Airport (BMA) runways and taxiways are subject to a lot of heavy aircraft use during the year, including snow plowing. The paint is a special FAA approved paint with imbedded reflective material to provide high visibility during reduced weather visibility and night time flight operations. The paint degrades significantly during the year and must be repainted to meet FAA specifications on an annual basis. The paint is inspected annually by the FAA as part of the annual FAA Part 139 airport certification process and must meet minimum standards. The painting is usually done prior to the late spring annual FAA inspection. The airport tried to accomplish this task "in-house" but, despite our best efforts, we simply cannot provide the painting expertise to meet FAA standards. Contracting with an experienced airport painting company does meet the standard and saves the airport considerable manpower costs and provides a more "professional" finished product. In addition, all airport roadway markings also require annual painting as required for vehicular and pedestrian safety for similar reasons.

Impact Of Denial/Postponement: The runway and taxiway painting is a Federal Aviation Administration (FAA) safety requirement. Roadway painting is a vehicular and pedestrian safety requirement. Failure to provide the runway and taxiway painting could result in loss of airport FAA certification and our ability to provide airport services to commercial aircraft. It would also eliminate our eligibility to receive FAA Airport Improvement Project (AIP) grant funding. The BMA will continue to provide painting "in-house" that does not meet FAA standards, with the increased risk of a reduction in flight safety; and the airport would continue to paint our roadways in a less than professional manner and with a negative impact on our ability to get all airport maintenance tasks completed with a small work force.

Project Cost Estimates: FY 15 Construction: \$50,000 FY 16 and beyond \$50,000 annually

Basis for Cost Estimates: Recent previous similar contracts.

Project Estimated Completion Date: Summer 2014 or Spring 2015

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$50,000	Painting
2016	\$50,000	Painting
2017	\$50,000	Painting
2018	\$50,000	Painting
2019	\$50,000	Painting

**Source of Funding**: For FY15 Airport enterprise funds. But occasionally MassDOT will do a statewide painting contract.

**Operating Budget Impact**: None





**Roadway and Runway Pavement Markings** 

PROJECT: AIR-15 -2 DEPARTMENT PRIORITY: 2 of 22

Project Working Title: REPLACE DUMP TRUCK WITH SANDER
Project Location: 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 2000 Chevrolet F350 Diesel Dump Truck with Sander.

**Project Justification:** With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

**Impact Of Denial/Postponement:** The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

**Project Cost Estimates:** Purchase \$65,000

Basis for Cost Estimates: Recent similar purchases, State Bid List, FAA acquisitions, etc.

**Project Estimated Completion Date: 2015** 

### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$65,000 Replace 2000 Dump Truck with Sander

**Source of Funding:** FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%, or MassDOT ASMP funds at 80% with 20% BMA if FAA ACIP grant funding is not available.

**Operating Budget Impact**: None





**Airport Dump Truck** 

PROJECT: AIR-15 -3 DEPARTMENT PRIORITY: 3 of 22

Project Working Title: DESIGN AND RECONSTRUCT TAXIWAY CHARLIE
Project Location: 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** As part of the Federal Aviation Administration's (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project serves to correct major operational aircraft ground and runway safety area (RSA) deficiencies associated with taxiway Charlie and its aircraft run-up area.

**Project Justification:** The reconstruction project will allow taxiway Charlie and the aircraft run-up area to be designed and constructed to comply with ongoing FAA safety area standards, and correct deficiencies within the runway approach and departure environment, including other miscellaneous related airfield improvements. The current design and operation of taxiway Charlie and the aircraft run-up area must be completed in order to comply with FAA Part 77 airspace restrictions and terminal instrument procedures (TERPS) criteria. New FAA guidance has mandated the required changes. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Charlie (C) as having a pavement condition index (PCI) of 60 to 65 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires complete major rehabilitation.

**Impact of Denial/Postponement:** Denial of postponement of this project will cause the airport to be non-compliant with FAA airport design and layout criteria. In addition, failure to comply and complete this project puts the airport in jeopardy for non-receipt of additional federal Airport Improvement Program (AIP) entitlement funds for airport capital improvements.

**Project Cost Estimates:** FY2015 Design \$200,000

**Basis for Cost Estimates**: Prior construction projects, engineering consultant estimates, FAA and MassDOT consultations

**Project Estimated Completion Date: 2016** 

### Project Cost/Description FY 2015 and Follow-On Years:

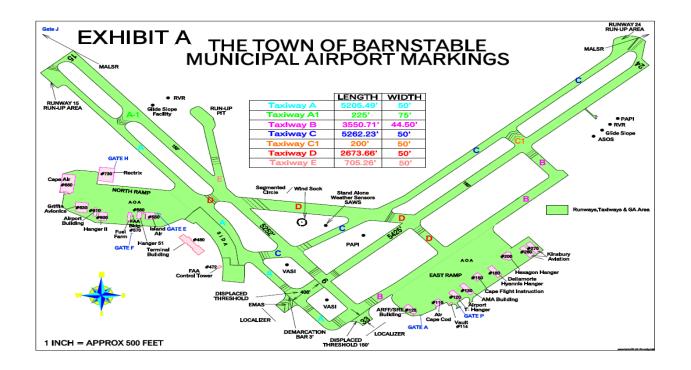
FY Cost Project Description/Components

2015 \$200,000 Permitting and Design

2016 \$2,350,000 Construction

**Source of Funding:** Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None – replaces existing taxiway



PROJECT: AIR-15 -4 DEPARTMENT PRIORITY: 4 of 22

Project Working Title: DESIGN RUNWAY 15-33 AND TAXIWAY ECHO FOR RECONSTRUCTION

**Project Description:** Runway 15-33 (circa 1985) and Taxiway Echo (circa 1980) have exceeded their pavement's 20-year design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will include the design and reconstruction of the full length (5,252 feet) of the runway, in place, including in-pavement lighting and edge lights, and will extend the design life of the pavement for another two decades, and the reconstruction of the adjacent Taxiway Echo to the engine run-up pit, and other miscellaneous related airfield improvements.

**Project Justification:** Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 15-33 has exceeded the end of its useful life and is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, aircraft damage, or a closed runway that would create winter crosswind conditions on the remaining runway. Crack sealing and crack repairs have extended its useful life until now but further deterioration poses serious safety risks that must be addressed. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows the majority of Runway 15-33 and all of Taxiway Echo as having a pavement condition index (PCI) of 54 to 66 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires major rehabilitation.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project will have flight safety consequences with regard to airport operations; and will increasingly affect the ability of pilots to operate on the runway, perform aircraft engine run-ups, and with potential loss of runway access during strong crosswinds and lessened flight safety. Eventually the runway and taxiway would be unusable, and the Airport would be in violation of their Grant Assurances and not in compliance with Airport certification requirements with resultant loss of operational capability.

Project Cost Estimates: FY2015 Design \$400,000 Construction \$0

**Basis for Cost Estimates:** Prior construction projects, engineering consultant estimates, FAA and MassDOT consultations, etc.

**Project Estimated Completion Date: 2016** 

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 400,000	Permitting and Design
2016	\$4,600,000	Construction

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

**Operating Budget Impact:** None

PROJECT: AIR-15 - 5 DEPARTMENT PRIORITY: 5 of 22

Project Working Title: DESIGN RUNWAY 6-24 FOR RECONSTRUCTION 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Runway 6-24 has exceeded its pavement's 20-year (circa 1991) design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will include the design and reconstruction of the full length (5,425 feet) of the runway, in place, including in-pavement lighting and edge lights, and will extend the design life of the pavement for another two decades, and will also include other miscellaneous related airfield improvements.

**Project Justification:** Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 6-24 will have exceeded its useful life by 2017, at which time it is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, and potential aircraft damage. Crack sealing and crack repairs have extended its useful life until now but further deterioration poses serious safety risks that must be addressed. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows the majority of Runway 6-24 as having a pavement condition index (PCI) of 54 to 73 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires major rehabilitation.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project will have flight safety consequences with regard to airport operations; and will increasingly affect the ability of pilots to operate on the runway, due to the potential for aircraft damage and lessened flight safety.

**Project Cost Estimates:** FY2015 Design \$400,000

**Basis for Cost Estimates:** Prior construction projects, engineering consultant estimates, FAA and MassDOT consultations.

**Project Estimated Completion Date: 2017** 

### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$ 400,000 Permitting and Design

2016 \$4,600,000 Construction

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%)

**Operating Budget Impact:** None – replaces existing runway

PROJECT: AIR-15 - 6 DEPARTMENT PRIORITY: 6 of 22

Project Working Title: DESIGN AND REPLACE EAST RAMP T-HANGAR ROOF

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design and replace the roof on the circa 1960's era East Ramp T-Hangar that has reached the end of its useful life. The existing metal roof continues to rapidly deteriorate with numerous leaks throughout the building that are patched as needed.

**Project Justification:** The East Ramp T-Hangar, despite its age, provides the only Airport-owned hangar spaces to accommodate the needs of general aviation at the Barnstable Municipal Airport. In addition, the BMA maintains a waiting list for T-hangar space that fluctuates between 25 and 27 aircraft owners waiting for space, and projections for the future of General Aviation at the BMA forecasts an additional demand for hangar space. Revenues generated by the continued rental of the bays will help offset costs of construction and maintenance.

**Impact Of Denial/Postponement:** Impact of denial will allow hangar to continue to deteriorate with resultant loss of viable rental space. This will further decrease potential BMA revenues, and will prevent the BMA from meeting the demands of airport users.

**Project Cost Estimates:** FY2015 Design: \$7,500 Construction: \$92,500

**Basis for Cost Estimates:** Prior construction projects, engineering consultant estimates, FAA and MassDOT consultations.

**Project Estimated Completion Date: 2015** 

Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u> <u>Cost</u> <u>Project Description/Components</u>

2015 \$100,000 Design and Reconstruct

**Source of Funding:** Airport Enterprise Funds – 100%. Not eligible for MassDOT AD ASMP funding assistance.



T Hangar

PROJECT: AIR-15 - 7 DEPARTMENT PRIORITY: 7 of 22

Project Working Title: REPLACE FRONT END LOADER

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 1985 Clark Front End Loader.

**Project Justification:** With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

**Impact Of Denial/Postponement:** The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

Project Cost Estimates: FY2015 Purchase: \$650,000

Basis for Cost Estimates: Recent similar purchases, State Bid List, FAA acquisitions.

**Project Estimated Completion Date: 2015** 

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$650,000 Replace 1985 Loader with new Loader

**Source of Funding:** FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%





Loader

PROJECT: AIR-15 - 8 DEPARTMENT PRIORITY: 8 of 22

Project Working Title: DESIGN & CONSTRUCT PHASE 1 AIRPORT ACCESS ROAD ON EAST SIDE OF AIRFIELD

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** The proposed two phase project will provide an Airport Access Road on the East side of the airfield from the current Gate Mike (M) to the limit of future growth in this area and to existing buildings located on the East Ramp. Phase 1 of the project will extend the access road and security fence to the north side of the northernmost existing hangar site. Phase 2 of the project will extend the access road, security fence and utilities to the limit of future growth in the area. The proposed project will include the installation of approximately 2,500 linear feet of pavement and security fence in two approximately equal phases. Phase 1 will incorporate existing utilities, and phase 2 will require the extension of utilities to serve potential future hangar buildings as may be permitted.

**Project Justification:** Phase 1 of the proposed project will provide access and security requirements for the potential use and redevelopment of two existing aircraft storage hangars to accommodate a proposed aviation maintenance and technology educational program on the site, that could commence in the spring of 2014. Until phase 1 of the project can be completed, access to the site would be through exiting gates and "inside the fence" secure access. Completion of the proposed project will be in concert and compliance with the pending completion of the Development Agreement between the Airport and the Cape Cod Commission, and the pending Airport Master Plan. The proposed redevelopment and proposed educational program will remain in compliance with the Airport cap on allowed hazardous materials and be in consonance with concerns expressed by the Town of Barnstable Growth Management Department and Water Department.

The success of the educational program will positively affect growth in the area, local businesses, and will, in and of itself, assist with the attraction of other aviation related activities to the region that would either benefit from, or assist with, the program itself; and provide the opportunity for further airport development to assist the Airport Commission's stated goal to increase and diversify revenue potential.

**Impact of Denial/Postponement:** Future growth on the East Ramp and the viability of the proposed aviation educational program will be greatly assisted by the completion of the proposed project. Failure to provide these improvements will hinder growth and potential success of the educational program. Completion of the proposed project is a key element in realizing future growth opportunities on the East Ramp and its failure to proceed may hinder regional economic growth.

Project Cost Estimates: FY2015 Design \$103,125 Construction \$345,000

**Basis for Cost Estimates**: Prior construction projects, engineering consultant estimates, DPW estimates, and FAA and MassDOT consultations.

**Project Estimated Completion Date**: 2016

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$448,125	Permitting, Design and Phase 1 Construction
2016	\$343,750	Phase 2 Construction

**Source of Funding:** Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%) for the security fence; and MassDOT ASMP (80%) and BMA Enterprise Funds (20%) for the design and road construction. Potential betterments, impact fees, user fees, development fees, connection fees, and so forth, to be developed.

**Operating Budget Impact**: None – existing staff and facilities will be used.

PROJECT: AIR-15 - 9 DEPARTMENT PRIORITY: 9 of 22

Project Working Title: AIRPORT PASSENGER TERMINAL AND BUILDING IMPROVEMENTS

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** The new Airport passenger terminal is a fully operational structure, built on a limited budget, and is in need of new additional enhancements to ensure that we continue to operate a safe, comfortable and efficient facility for the benefit of our customers — whether they are passengers on our air carriers, or tenants that operate within the new terminal, or employees of the airport. In addition, the Airport Rescue and Fire Fighting Building (ARFF) is over 20 years old and has suffered from deferred maintenance and is in need of various repairs and upgrades to be determined by a complete engineering and architectural review that should be completed in FY2014. The funds appropriated in FY2012 and FY2013 are insufficient to accomplish all previous goals.

**Project Justification:** The ARFF building structural and system review has commenced and will become the basis for a new long range preventative maintenance and capital plan for the structure; however, several building systems have already failed and were replaced with Operating Capital funds in FY2013, and other failing systems will be replaced in FY2014 under last year's project. There is more to do. During the design and construction phases of the new passenger terminal, many items in the original design were either eliminated or reduced in size in order for the project to remain within budget. This included such items as a baggage carousel, exterior canopies, extended ticketing baggage belt, polished concrete instead of terrazzo floors, brick exterior siding instead of terra cotta wall cladding, elimination of an expensive landscape irrigation system, and so forth. Some of these items will never be replaced; however, this annual project is to continuously review the status of the facility, and to correct system deficiencies identified in the new structure. Items to be carried over for FY 15 include the design of a new baggage carousel, a new flight information display system, a new lighting control system, a new terminal heating humidification system

Work Accomplished Prior Related Project: New irrigation system installed; exterior sign and interior signage completed; and design for the terminal ramp airside canopy, baggage area doors, arrival gate storefront/doors redesign is underway. The Airport buildings condition assessment, design to replace 3 heat exchange RTUs and 3 exhaust fan RTUs at the ARFF, and the replacement of the ARFF electrical relay panel and lighting are underway.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project will have adverse operational and maintenance capability impacts in our ARFF Building; and passenger, tenant and employee quality of life consequences with regard to airport operations and maintenance. The lack of certain amenities may have future negative revenue generation impacts.

Project Cost Estimates: FY2015 Construction: \$200,000

Basis for Cost Estimates: Prior construction projects, engineering consultant estimates, DPW estimates, and

FAA and MassDOT consultations, etc.

**Project Estimated Completion Date: 2015** 

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$200,000 Project Design and Construction

**Source of Funding:** For FAA and MassDOT eligible issues, reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%); potential increase in Passenger Facility Charges (PFCs). MassDOT ASMP program grants would be 80% reimbursable. For ineligible items, full cost would be borne by the Airport Enterprise Fund Reserves.

Operating Budget Impact: None – new fixed systems combined with reduced utility costs

PROJECT: AIR-15 - 10 DEPARTMENT PRIORITY: 10 of 22

Project Working Title: DESIGN & CONSTRUCT AIRPORT FIXED BASE OPERATIONS BUILDING

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design, permit and construct a new Fixed Base Operations (FBO) facility to be manned and operated by the Airport. The new facility will either be an addition to the existing Aircraft Rescue and Firefighting Building (ARFF) or a new stand alone building on a location to be determined on the East Ramp. The estimated size of the building/addition is approximately 2,500 square feet, single story, wood frame, asphalt shingle roof structure. The FBO facility will provide general aviation passenger lounges; pilot and crew rest areas; flight planning capability; kitchen and catering food storage areas; bathrooms; office spaces; a general reception area and waiting area; and other services as needed. In accordance with a recently completed Environmental Impact Report approved by MEPA, and a soon to be completed Development Agreement with the Cape Cod Commission and the Town of Barnstable, the facility will also be required to connect to the Town sewer system regardless of its location.

**Project Justification:** As a result of Airport Commission strategic planning, and customer requests for enhanced services for general aviation aircraft, including corporate and charter jet services, it has been determined that the Airport must provide enhanced high quality facilities and services to generate better customer relations and meet demands, better pilot and passenger services, and better business management in order to retain and increase general aviation business and revenues for the airport. It has been determined that such a facility should be constructed on the East Ramp and should either be an addition to the existing Aircraft Rescue and Firefighting Building (ARFF), or a new dedicated building – both of which should have airside and landside access, which may require moving of the airport fences and security systems. A complete architectural and engineering review of the ARFF Building will be completed in FY2014; and an airport consultant will complete research on demand and required facilities at the airport in FY2014.

**Work Accomplished Related Project:** Competitively bid and hired an FBO Consultant and commenced an FBO Options Analysis – report due April/May 2014.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project will have significant potential for adverse operational and customer demand consequences with regard to airport operations and revenue generation.

**Project Cost Estimates:** FY2015 Construction \$1,205,000

**Basis for Cost Estimates**: Prior construction projects, engineering consultant estimates, DPW estimates, and FAA and MassDOT consultations.

**Project Estimated Completion Date: 2016** 

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$1,205,000	Construction

**Source of Funding:** Not eligible for FAA reimbursable funding. Potential MassDOT ASMP program grants would be 80% reimbursable. For ineligible items, full cost would be borne by the Airport Enterprise Fund Reserves and short term borrowing.

Operating Budget Impact: Will require additional maintenance and operating funds as follows:

<u>FY</u>	No. Positions	Salary Costs	<u>Benefits</u>	<u>Expenses</u>	<u>Total</u>
2015	0				
2016	2	\$60,500	\$3,025	\$None	\$63,525

**Supplemental Information:** The FBO will provide customary accommodations for the convenience of users, including pilot lounge area, information services, direct telephone/internet service connections to the Flight Service Station and the U. S. Weather Bureau, and courtesy vehicle ground transportation to and from other areas of the airport. The FBO will also coordinate apron services and assistance to aircraft, including parking and tied down services, and sale and delivery of aviation fuels.

PROJECT: AIR-15 - 11	DEPARTMENT PRIORITY: 11 of 22

Project Working Title: DESIGN AND CONSTRUCT NEW SNOW REMOVAL EQUIPMENT STORAGE BUILDING

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design and construct a new Snow Removal Equipment (SRE) and vehicle storage building of approximately 10,000 square feet to provide additional covered parking space to accommodate the needs of the Barnstable Municipal Airport (BMA). The new storage building would be constructed of metal with a concrete slab foundation and with a 24' wide by 22' high door for vehicle and plow ingress and egress. The new building would be located on the east side of the airport.

**Project Justification:** The existing Aircraft rescue and firefighting (ARFF) building provides insufficient vehicle garage bays and storage capability to meet the storage and parking requirements for all airport SRE and other operational vehicles. Currently we must store many of our vehicles, plows and sanders, and specialty equipment outside in the elements which contributes to an already corrosive operating environment and shortens their useful life. We currently have limited covered space in the ARFF building, and in a portion of the Hangar II bay – the majority of which is leased to Cape Air, who have expressed a desire to lease the entire

hangar. The new building would be of metal construction, built on a slab, with no heat and no water. It would have electrical power, vehicle exhaust vents if necessary, and lights only - to be built at minimal cost for "cold" storage. This new facility would help preserve our very costly vehicles for a longer period of time and reduce our long term maintenance and replacement costs.

**Impact Of Denial/Postponement:** Impact of denial will shorten the useful life of the very costly airport vehicles needed to maintain operations and certification requirements; it will increase the airport's annual maintenance costs, and it will increase the airport's vehicle replacement costs. Only certain SRE vehicles are eligible for FAA and MassDOT grant funding assistance. All other vehicle replacement costs will adversely affect the Airport Enterprise Fund Reserves.

**Project Cost Estimates:** Future FY2016 Design: \$50,000 Construction: \$450,000

**Basis for Cost Estimates:** Prior construction projects, engineering consultant estimates, DPW estimates, industry cost estimates, and FAA and MassDOT consultations, etc.

**Project Estimated Completion Date: 2016** 

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$500,000 Design and Construct

**Source of Funding:** Airport Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%)

**Operating Budget Impact:** None – new cold storage building

PROJECT: AIR-15 - 12 DEPARTMENT PRIORITY: 12 of 22

Project Working Title: DESIGN AND CONSTRUCT NEW T-HANGAR
Project Location: 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design and construct a new 6-bay nested T-hangar to provide additional hangar space to accommodate the needs of general aviation at the Barnstable Municipal Airport (BMA). The T-hangar would be constructed of metal with a concrete foundation and with bi-fold doors for aircraft access to the east ramp.

**Project Justification:** The recently completed Airport access road and the pending construction of the new fuel farm mandated the demolition of one of the two airport-owned existing T-hangars, located adjacent to Gate Foxtrot (F). Since this T-hangar serviced Airport users that had to be displaced, the Airport desires to construct a new T-hangar on the East ramp to accommodate this loss of space. In addition, the BMA holds a waiting list for T-hangar space that fluctuates between 25 and 27 aircraft owners waiting for space, and projections for the future of General Aviation at the BMA forecasts an additional demand for hangar space. Revenues generated by the rental of the bays will help offset costs of construction and maintenance.

**Impact Of Denial/Postponement:** Impact of denial will further decrease potential BMA revenues, and will prevent the BMA from meeting the demands of airport users for hangar space.

**Project Cost Estimates:** FY2015 Design \$0

Future FY2016 Design: \$50,000 Construction: \$600,000

**Basis for Cost Estimates**: Prior construction projects, engineering consultant estimates, DPW estimates, and FAA and MassDOT consultations, etc.

**Project Estimated Completion Date: 2016** 

### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$650,000 Design and Construct

Source of Funding: Airport Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%)

Operating Budget Impact: None - replaces prior deteriorating facility that was demolished



**Existing T Hangar** 

PROJECT: AIR-15 - 13 DEPARTMENT PRIORITY: 13 of 22

Project Working Title: DESIGN AND REPLACE AIRFIELD VAULT EMERGENCY GENERATOR (100KW) AND

REMOVE UNDERGROUND STORAGE TANK (UST)

**Project Location:** 480 Barnstable Road, Hyannis, MA

**Project Description:** Replace the existing circa 1990 100KW diesel generator and its associated 550 gallon underground storage tank (UST); and replace it with a new natural gas 100KW generator for the emergency operation of the airfield lighting and vault located near Gate Papa (P) on the East Ramp.

**Project Justification:** The existing 100KW diesel generator and its associated 550 gallon UST are due for replacement. The reinforced double wall steel UST is inspected as required, meets all current code requirements, and uses interstitial monitoring; however its location on the East Ramp warrants its removal in the near future, in keeping with the Airport's desire to remove all potential environmental threats in so far as is feasible on the East side of the airport to reduce the potential threat of ground water pollution.

**Impact Of Denial/Postponement:** Denial or Postponement will place our emergency operation of airfield lighting at risk, with concurrent risk to safety of flight and potential loss of life and property damage. Denial or postponement also increases the potential risk of a diesel oil leak and threat of ground water pollution.

**Project Cost Estimates:** Future FY2016 Design: \$5,000 Construction: \$85,000

Basis for Cost Estimates: Recent similar purchases, State Bid List, FAA acquisitions

**Project Estimated Completion Date: 2016** 

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components

2015 \$0

2016 \$90,000 Design and replace

Source of Funding: FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%

Operating Budget Impact: None – replaces existing fixed facility



**Emergency Generator** 

PROJECT: AIR-15 - 14 DEPARTMENT PRIORITY: 14 of 22

Project Working Title: REPLACE SNOW REMOVAL EQUIPMENT - KODIAK SNOW BLOWER

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 1998 Kodiak Diesel 4x4 Snow Blower.

**Project Justification:** With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

**Impact Of Denial/Postponement:** The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

**Project Cost Estimates:** Future FY2016 Design:\$ Construction: \$900,000

Basis for Cost Estimates: Recent similar purchases, State Bid List, FAA acquisitions

**Project Estimated Completion Date: 2016** 

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$900,000 Replace 1998 Kodiak Diesel Snow Blower

Source of Funding: FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%

**Operating Budget Impact:** None – replace existing heavy duty equipment.





**Emergency Equipment** 

PROJECT: AIR-15 - 15 DEPARTMENT PRIORITY: 15 of 22

Project Working Title: REPLACE AIRFIELD EQUIPMENT AND VEHICLES
Project Location: 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** The Airfield Equipment being replaced in FY2016 includes the aircraft DAVCO Ground Power Unit (GPU) and the Maintenance Shop Air Compressor; and the Airport vehicle being replaced in FY2017 is the 2000 New Holland Tractor with Mower Deck. All items will have reached the end of their useful life and must be replaced.

**Project Justification:** Airfield equipment and vehicles periodically need to be replaced as they reach the end of their useful life; and these items are not eligible for FAA Airport Improvement Program (AIP) grant funding; however, the tractor with mower deck may be eligible for MassDOT Aeronautics Division Airport Safety and Maintenance Program (ASMP) grant funding. The aircraft Ground Power Unit (GPU) is used by transient aircraft to provide power to the aircraft when parked on the ramp; and the maintenance shop Air Compressor is used for a multitude of equipment necessary to run maintenance operations. The tractor and mower deck is used to mow and maintain several hundred acres of vegetation at the airport to maintain the field as required by FAA FAR Part 139 for mandated airport certification requirements and for wildlife management purposes.

**Impact Of Denial/Postponement:** To deny or postpone funding for the Ground Power Unit, we will not be able to assist aircraft with their ground power requirements, which will increase the use of aircraft auxiliary power units (if available) and will increase airport noise and decrease our ability to service aircraft; without the air compressor, we will be unable to repair or service our equipment and will inhibit our ability to meet FAA FAR Part 139 requirements and a host of maintenance and operations requirements; and if the mower is not replaced, we will again be unable to comply with FAA mandated vegetation management practices that will affect flight safety.

**Project Cost Estimates:** Future FY: FY2016 Design \$0 Construction \$115,000

FY2017 Design \$0 Construction \$110,000

Basis for Cost Estimates: Recent similar purchases, State Bid List, FAA acquisitions

**Project Estimated Completion Date: 2016 and 2017** 

### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	Cost	Project Description/Components
2015	\$0	
2016	\$115,000	Replace GPU and Air Compressor
2017	\$110,000	Replace Tractor and Mower Deck

**Source of Funding:** Airport enterprise funds in FY2016, For FY2017 MassDOT ASMP funds at 80% with 20% BMA

Operating Budget Impact: None – replacement of existing fixed systems



**Ground Power Unit** 



**Air Compressor** 

PROJECT: AIR-15 - 16 DEPARTMENT PRIORITY: 16 of 22

Project Working Title: DESIGN AND CONSTRUCT NEW EXTENDED AND RELOCATED TAXIWAYS BRAVO (B),

**BRAVO ONE (B1) AND RECONSTRUCT TAXIWAY DELTA (D)** 

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** As part of the Federal Aviation Administration's (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project serves to correct major operational aircraft ground and runway safety area (RSA) deficiencies associated with taxiways B, B1 and D.

**Project Justification:** This construction project for the new and relocated Taxiways B and B1 is the final step in a multi-year process to modify the East Ramp and its associated taxiways to bring it into compliance with FAA airport design criteria; and to meet the requirements of the Airport Layout Plan, the Draft Airport Master Plan, Development of Regional Impact, EIR and Development Agreement for the future development of the East Ramp. The reconstruction project will allow taxiway Delta to be designed and constructed to comply with ongoing FAA safety area standards, and correct deficiencies within the runway approach and departure environment, including other miscellaneous related airfield improvements. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiways Bravo and Bravo One as having a pavement condition index (PCI) of 47 to 65 depending upon location; and Taxiway Delta having a PCI of 69 to 86 depending upon location, with 0 being the worst condition, to 100 being the best condition. A PCI of 55 to 70 requires complete major rehabilitation.

**Impact of Denial/Postponement:** Denial or postponement of funding for this project will negatively affect aircraft and airport operations for the future development of the East Ramp, and the airport will not be in compliance with FAA airport design criteria.

Project Cost Estimates: Future FY2016 Design: \$600,000 Construction: \$0

Future FY2018 Design: \$0 Construction: \$2,150,000

Basis for Cost Estimates: Prior construction projects, engineering consultant estimates, FAA and MassDOT

consultations

**Project Estimated Completion Date: 2018** 

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$ 600,000	Permitting and Design
2017	\$0	
2018	\$2,150,000	Construction

**Source of Funding:** FAA share 90%, MassDOT AD share 5%, and Airport share 5%.

Operating Budget Impact: None – taxiways will be maintained with existing resources

PROJECT: AIR-15 - 17 DEPARTMENT PRIORITY: 17 of 22

Project Working Title: REPLACE SNOW REMOVAL EQUIPMENT (SRE) AND AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) EQUIPMENT (DUMP TRUCK WITH PLOW AND SANDER; AND ASV SKID STEER PLOW

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 1995 Ford L-8000 Diesel Heavy Duty Dump Truck with plow and sander; and the 2004 ASV Diesel Skid Steer Plow.

**Project Justification:** With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Describe Work Accomplished Prior Project: Replacement airfield sweeper was acquired in FY2012.

**Impact Of Denial/Postponement:** The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

**Project Cost Estimates:** Future FY2017 Purchase \$260,000

Basis for Cost Estimates: State Bid List, FAA acquisitions

**Project Estimated Completion Date: 2017** 

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$260,000	Replace 1995 Ford L-8000 Diesel Heavy Duty Dump
		Truck with plow and sander; and 2004 ASV Diesel Skid
		Steer Plow

Source of Funding: FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%

**Operating Budget Impact:** None – replace existing heavy duty ARFF/SRE equipment

**Supplemental Information:** The ASV Skid Steer with plow is a specialized vehicle for plowing the Engineered Material Arresting System (EMAS) which completed a \$1,000,000 upgrade in 2013. It can also be used for other plowing requirements as necessary.



**ASV Skid Steer** 





PROJECT: AIR-15 - 18 DEPARTMENT PRIORITY: 18 of 22

Project Working Title: DESIGN AND CONSTRUCT NEW FIBER OPTIC AIRFIELD LIGHTING CONTROL SYSTEM

(ALCS)

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design and construct a new fiber optic Airfield Lighting Control System (ALCS) for improved communications between the Air Traffic Control Tower (ATCT) and the airfield lighting vault via a hardwire communications pathway.

**Project Justification:** The existing Airfield Lighting Control System (ALCS) communicates from the Air Traffic Control Tower (ATCT) to the airfield lighting vault via a wireless communications pathway. A life safety system of this nature typically has two pathways for control, a hardwired line (or fiber) and a wireless link. The hardwire communications path is typically the primary pathway and the wireless link is typically a backup in the event of a failed cable or communications equipment failure. The already existing fiber optic cable from the ATCT to the Aircraft Rescue and Fire Fighting (ARFF) building will be extended with a new fiber optic cable approximately 1000 feet in total length to connect to the airfield lighting vault. This project provisions this additional cable and equipment. Additionally, this new cable will also improve video and access control systems within the lighting vault and at Gate Papa (P). The fiber cable would also be utilized in improving perimeter security and other airport related systems along the East side of the airport.

**Impact of Denial/Postponement:** Denial will continue an unsafe communications system that could have flight and life safety concerns in the event of an unforeseen failure of the wireless system with no alternative or back-up system in place. Failure to construct this new system will also negatively impact other necessary security upgrades as the airport continues to modernize and grow new business on the East side of the airport.

**Project Cost Estimates:** FY2015 Design \$0 Construction: \$0

Future FY2017 Design: \$12,000 Construction: \$43,000

Basis for Cost Estimates: Engineering consultant estimates, DPW estimates, industry cost estimates, and FAA

and MassDOT consultations

**Project Estimated** Completion Date: 2017

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$0
2016 \$0
2017 \$55,000 Design and Construct

Source of Funding: FAA AIP reimbursable Grant funds at 90%; MassDOT at 5%, BMA at 5%,

**Operating Budget Impact:** None – extension of existing system

PROJECT: AIR-15 - 19 DEPARTMENT PRIORITY: 19 of 22

Project Working Title: CLEAR VEGETATION ALONG THE AIRPORT PERIMETER FENCELINE BUFFER ZONE AND

IN FAA AIRSPACE OBSTRUCTION (PART 77) OFFENDING AREAS

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** Design, permit and clear vegetation that has regrown along most of the Airport perimeter fence line buffer zone creating potential Transportation Security Administration (TSA) security violations; and in places where the vegetation has regrown in certain areas of the airfield where it is creating an airspace flight obstruction – sometimes called an Federal Aviation Administration (FAA) FAR Part 77 obstruction or an offending area.

Project Justification: The existing perimeter fence line was installed in phases over many years to first meet FAA airfield and flight safety requirements and then subsequent to the September 11, 2001 terrorist incident, the TSA has required all FAA FAR Part 139 airports to have a security fence along the entire perimeter that is 8 feet tall with 3 strands of barbed wire along the top, with a 10-foot clear buffer zone on each side of the fence line if possible. Over the past 12 years, the vegetation has continued to grow back along the entire fence line creating a safety and security concern. The airport continues to manually attempt to keep the growth off and away from the fence, without the use of herbicides, with existing personnel, and with the use of Americorps volunteers, JTEC volunteers, and temporary employees. We cannot keep up with the vegetation without this project. The Airport encompasses 683 acres of land, more or less. The results of a new land survey are pending that will also identify the perimeter length and associated fence line.

**Impact of Denial/Postponement:** Denial will continue to affect airport personnel's ability to keep the fence line clear of vegetation; it will increase the maintenance workload on a limited staff; it will increase the probability of incurring a security violation from the TSA; and it will increase the probability of an adverse effect on flight minimum altitudes and negatively affect flight safety and commerce.

**Project Cost Estimates:** FY2015 \$ 0

Future FY2017 Design: \$75,000 Construction: \$0

Future FY2018 Construction: \$800,000

Basis for Cost Estimates: Prior construction projects, engineering consultant estimates, DPW estimates,

industry cost estimates, and FAA and MassDOT consultations

**Project Estimated Completion Date: 2018** 

### Project Cost/Description FY 2015 and Follow-On Years:

2016 \$0

2017 \$ 75,000 Design and Permitting

2018 \$800,000 Construction

**Source of Funding:** FAA AIP reimbursable Grant funds at 90%, MassDOT at 5%, BMA at 5%

Operating Budget Impact: None





PROJECT: AIR-15 - 20 DEPARTMENT PRIORITY: 20 of 22

Project Working Title: AIRPORT FAA MASTER PLAN AND UTILITIES GIS SURVEY

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** The Airport's required FAA Master Plan (per FAA Advisory Circular AC150/5070-6B) is a comprehensive long-term plan for the airport development that should be revisited and updated periodically, and upon completion of the Town and Cape Cod Commission mandated Master Plan and Development Agreement process. In addition, this planning process will be done in concert with the Airport's utilities infrastructure systems plan that will incorporate all utilities that were originally built in the 1940's and have been upgraded multiple times over the subsequent decades. There is a need to collate all historic construction and engineering data into a comprehensive data base, with controlled GIS surveys of above and below-ground systems. This project will include the survey and data collection of all runway, taxiway, apron and airfield utilities, including landside utilities for all buildings, parking facilities, and access roads onto a comprehensive GIS database, compatible with FAA and Town needs.

**Project Justification:** The present Master Plan does not appear to be complete and should be completed to bring the Airport into full FAA compliance. The Airport Layout Plan and other required portions of the Plan are kept up-to-date; however, a comprehensive plan does not appear to have been brought up to date for many years. The utility systems are not adequately researched or surveyed, which leads to accidental utility damage despite efforts to adequately identify and locate them prior to any construction. This project will reduce hazards and risks during reconstruction of airport projects, and reduce engineering and potential repair costs in the future.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project will not allow the Airport to be in full compliance with FAA directives that may have long term financial consequences; and the lack of a utilities plan will have safety consequences with regard to airport operations.

**Project Cost Estimates:** FY2015 \$0

Future FY2018 Design: \$0 Construction: \$800,000

**Basis for Cost Estimates:** Prior construction projects, engineering consultant estimates, DPW estimates, industry cost estimates, and FAA and MassDOT consultations

**Project Estimated Completion Date: 2018** 

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$0	
2018	\$800,000	Project Completion

**Source of Funding:** Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%)

Operating Budget Impact: None determined at this time

**Supplemental Information:** (1) A.O.#2011-078 for the completion of a property line and leasehold survey is ongoing and will form an integral part of the FAA Master Plan; the updated Airport Layout Plans have incorporated ongoing property acquisitions, and the results of the Cape Cod Commission Development of Regional Impact; and the recently completed EIR and the new Master Plan and Development Agreement will also form a part of the new FAA Master Plan. (2) During recent airport improvement projects, undetected and unknown utility lines and FAA telecommunications and airport aids to navigation lines were discovered after the commencement of construction that caused costly delays and emergency repairs in the interests of safety. This is a continuing problem with almost every construction project at the airport. This project will identify these utilities and telecommunication lines in advance as a preventative measure.

PROJECT: AIR-15 - 21 DEPARTMENT PRIORITY: 21 of 22

Project Working Title: LAND ACQUISITION FOR RW33 RUNWAY SAFETY AREA/PROTECTION ZONE

(RSA/RPZ)

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** The Airport and Town relocated Mary Dunn Way several years ago to enlarge the Runway Safety Area (RSA) at the end of Runway 33, per FAA's safety standards. Several parcels remain within the Safety Area, and the adjacent Runway Protection Zone (RPZ), which conflict with FAA's safety standards. The Airport proposes to acquire these parcels which are incompatible land uses that pose a risk to aviation safety and a hazard to the flying public.

**Project Justification:** Several gas station and fuel storage parcels create incompatible land uses and hazards to aviation safety, as well as the safety of the public, due to their location within the RSA and RPZ at the end of

Runway 33. The Airport proposes to acquire these parcels for open space protection within the RSA and RPZ, thereby enhancing public safety and complying with FAA's standards for compatible land use and RSA protection.

**Impact of Denial/Postponement:** To postpone funding of this capital project will continue the risk to public safety as a consequence of any aircraft overrun or undershoot that may impact one of the adjacent, incompatible land uses. An aircraft collision with any of the fuel storage facilities within the RSA or RPZ would have the potential for loss of life and significant injuries.

Project Cost Estimates: FY2015 \$0

Future FY2019 Design: \$0 Purchase: \$2,500,000

Basis for Cost Estimates: Prior land appraisals, construction projects, engineering consultant estimates

**Project Estimated Completion Date: 2019** 

**Project Cost/Description FY 2015 and Follow-On Years:** 

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$0	
2018	\$0	
2019	\$2,500,000	Land Acquisition

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%), and local share (5%)

**Operating Budget Impact**: None – acquires additional property that can be maintained with existing resources.

PROJECT: AIR-15 - 22 DEPARTMENT PRIORITY: 22 of 22

Project Working Title: FEDERAL AVIATION ADMINISTRATION (FAA) FEDERAL AVIATION REGULATION (FAR)

PART 150 NOISE EXPOSURE MAP UPDATE

**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

**Project Description:** This project would update the original 1987 FAA FAR Part 150 noise compatibility study and noise exposure maps approved by the FAA in 1989; and it would update the Barnstable Municipal Airport (BMA) Noise Studies conducted in 1998/99.

**Project Justification:** The goal of the Barnstable Municipal Airport (BMA) noise mitigation program is to minimize the environmental impact of noise from airport operations, increasing the degree of compatibility between the airport and its neighbors through implementation of noise and land use mitigation measures that are practical for use consistent with the well being of the inhabitants of this region. The noise exposure maps will provide current "average day-night noise exposure" contours (Ldn) which can also be used for approved FAA noise mitigation measures if applicable, and as a guide for present and future land use planning. This project will help the BMA meet these goals and will provide an updated factual basis for discussions regarding noise exposures; it will focus on practical options to address issues of primary concern; and it will include

public involvement. These recommended "voluntary" noise studies are the most likely to receive FAA approval for cost sharing.

**Impact of Denial/Postponement:** To deny or postpone funding of this capital project, noise complaints will continue, and the BMA will be seen as unresponsive to the inhabitants of the region. In addition, the BMA will have missed an opportunity to fine tune voluntary flight paths, and other noise reduction and flight safety measures.

**Project Cost Estimates:** FY 2015 \$0

Future FY2019 Design: \$0 Construction: \$80,000

Basis for Cost Estimates: Prior projects, engineering consultant estimates

**Project Estimated Completion Date: 2019** 

### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$0	
2018	\$0	
2019	\$80,000	Complete Noise Exposure Mapping

**Source of Funding:** Funding by FAA (90%), MassDOT AD (5%), and local share (5%) from airport enterprise funds.

**Operating Budget Impact:** None – no increase in operational requirements foreseen

#### HYANNIS YOUTH AND COMMUNITY CENTER ENTERPRISE FUND

PROJECT: CS - 1 HYCC DEPARTMENT PRIORITY: 1 of 1

Project Working Title: HYCC MECHANICAL UPGRADES
Project Location: Bearse's Way, Hyannis, MA

**Project Description:** The proposed project includes the study of the existing HVAC system for the core areas of the building, engineering design, contract administration, and project management services for improvements to the existing HVAC system.

**Project Justification:** The central core of the building is fed off of one system without reheat units and temperature controls for a diverse number of spaces of varying occupancies. This diversity on one system allows for one temperature throughout, thus, some areas are hot while others are cold. This is complicated by having cold ice rinks on two sides. The electrical system is maxed out so a gas fired system would be less expensive to employ.

**Impact Of Denial/Postponement:** Multiple room type and occupancies require better heating and cooling controls and system to alleviate complaints from staff and visitors.

**Project Cost Estimates:** Design: \$37,510 Construction: \$191,720

Basis for cost estimates: Engineer's estimate

Project Estimated Completion Date: July, 2016

### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$229,330 Design & Construction

Source of Funding: HYCC Enterprise Fund

**Operating Budget Impact**: Savings in fuel costs due to greater efficiency of system. Savings amount unknown at this time.





**HVAC System** 

#### SANDY NECK PARK ENTERPRISE FUND

PROJECT: CS-15 - 1 SANDY NECK DEPARTMENT PRIORITY: 1 of 1

Project Working Title: SANDY NECK SAND MANAGEMENT - IMMEDIATE STABILIZATION

**Project Location:** Sandy Neck Beach, Barnstable

**Project Description:** The existing dune continues to be unprotected against storm damage. Design and environmental permitting services are required for a soft solution for the immediate temporary repair of the dune edge to control erosion. This work will stabilize the current bank supporting the parking lot utilizing the installation of a bank reinforcement system.

**Project Justification:** The erosion along the dune edge has continued. The town currently is installing 5,000 cubic yards of emergency replacement sand to replace material eroded during storms. This material is sacrificial and could disappear after the next major storm. A more permanent solution is required.

**Describe Work Previously Accomplished:** Emergency work is currently underway to install sacrificial sand to temporarily shore the dune. This short term work will stabilize the dune and allow for time for a more permanent solution.

**Impact Of Denial/Postponement:** The dune edge will continue to erode and continue to undermine the existing parking lot releasing undesirable material onto the beach.

**Project Cost Estimates:** Design: \$20,000 Construction: \$300,000

Basis for cost estimates: Engineer assisted in-house estimate

**Project Estimated Completion Date:** Fall, 2016

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components
2015 \$320,000 Design / Permitting + Construction

Source of Funding: Sandy Neck Beach Park Enterprise Fund Surplus

**Operating Budget Impact: None** 





**Emergency Work** 

#### SOLID WASTE ENTERPRISE FUND

PROJECT: DPW-15 - 1 SOLID WASTE DEPARTMENT PRIORITY: 1 of 3

Project Working Title: REPLACE EXISTING ONE-TON DUMP TRUCK

**Project Location:** 45 Flint Street, Marstons Mills, MA

Project Description: Replace the Solid Waste Division's existing one-ton dump truck with a new, one-ton

dump truck.

**Project Justification:** The existing one-ton dump truck is a 1997 model, which has been used at the Solid Waste Facility and for snow and ice removal for 15 years. The truck has failed inspection due to rot in the frame. In addition, the break system is failing, the transmission is showing signs of immanent failure, the injector pumps appear to be failing, and the body is rotting out. This truck is a vital piece of equipment and is constantly used to move debris, tools and employees around the facility; as well as for snow and ice operations in winter.

**Impact Of Denial/Postponement:** Given the state of the existing vehicle, not replacing it now will likely deprive the Solid Waste Facility of this piece of equipment. Repairs can be made in the near term (at much higher maintenance costs), but the Fleet Manager does not feel it will last much beyond this year. Waiting for a future CIP will likely result in the loss of a vehicle with no immediate replacement. As this is a key piece of equipment, that choice would negatively impact the Solid Waste Facility operations.

**Project Cost Estimates:** FY 2015: \$60,000

Basis for cost estimates: State contract quote

Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$60,000 Purchase new one-ton dump truck

**Source of Funding: :** Solid Waste Reserve

**Operating Budget Impact:** Since the new truck will replace an existing truck, it is not anticipated that there will be any additional operations budget impact other than reduced maintenance costs.



**One Ton Dump Truck** 

#### PROJECT: DPW 15 - 2 SOLID WASTE DEPARTMENT PRIORITY: 2 of 3

Project Working Title: REPLACE EXISTING BACKHOE
Project Location: 45 Flint Street, Marstons Mills, MA

**Project Description:** Replace the existing backhoe with a new backhoe.

**Project Justification:** The existing backhoe is a two-wheel drive, 1996 model, with 8,000 service hours. It has become a maintenance issue with failing components, corrosion, and leaking fluids. This piece of equipment is used constantly to help maintain the facility. It plows snow in winter; moves leaves, manure, and compost; clears swales for water drainage; the hoe is used to compact the trash containers; and it acts as backup for loading demolition and metals when the main loader is down or performing other tasks. It also assists in DPW emergency calls as needed - such as downed trees, objects in road, etc. As proposed, this piece of equipment would be replaced with a new four-wheel drive backhoe.

Impact Of Denial/Postponement: Not replacing this piece of equipment could result in its loss to the Solid Waste Facility, as the existing backhoe is nearing the end of its useful life. Loss of this piece of equipment will have a negative impact on the entire operation as there are some functions that only it can perform (maintaining drainage swales, compacting trash bins, etc). For other functions, the main loader would be tasked to assume the workload, which would put additional strain on another aging piece of equipment, accelerate its need to be replaced, and likely make it impossible to keep up with all the demands of the operation.

Project Cost Estimates: FY 2015: Purchase \$110,000

Basis for cost estimates: State contract quote

**Project Estimated Completion Date: 2014** 

Method of Project Accomplishment: N/A

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$110,000 Purchase Backhoe

**Source of Funding:** Solid Waste Reserve Account

**Operating Budget Impact:** Since the new backhoe will replace an existing backhoe, it is not anticipated that there will be any additional operations budget impact other than reduced maintenance costs.





PROJECT: DPW 15 – 3 SOLID WASTE DEPARTMENT PRIORITY: 3 of 3

Project Working Title: SOLID WASTE MASTER PLAN AND EXISTING FACILITY UPGRADES

**Project Location:** 45 Flint Street, Marstons Mills, MA

**Project Description:** A site master plan to recommend the appropriate location of structures, improve traffic flow, and increase efficiency of operations. In addition, funding has been included to make badly needed near-term facility repairs. This program will focus on improving life safety systems, exterior wall and roof skin replacement, HVAC upgrades, interior improvements and code issues.

**Project Justification:** This plan is intended to look at the facility comprehensively; and develop the most efficient layout, building requirements, etc of the facility. The Town can then make incremental improvements/additions to the facility knowing that the end results have been thought through. The alternative is a piece-meal approach, which may result in less than ideal layout and operations. In addition, there are near-term renovations that are necessary. Many are life safety and code compliance issues, as well as exterior envelope problems where water is infiltrating into the building and causing structural integrity issues.

**Impact Of Denial/Postponement:** Denial of this project will result in the Town addressing needed upgrades to the facility in a piece-meal manner. Buildings/facilities will be replaced over time, but there will always be the question if they are in the most ideal locations for existing and future operations of the facility. Delaying the near-term facility repairs will result in continued code and safety violations, and accelerate the deterioration of the facility.

**Project Cost Estimates:** Design: \$75,000 Construction: \$205,000

Basis for Cost Estimates: DPW in-house Engineer's estimate

**Project Estimated Completion Date:** Summer, 2016

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components

2015 \$ 75,000 Planning and Design

2016 \$205,000 Construction

Source of Funding: Solid Waste Reserve Account

**Operating Budget Impact:** Potential operational savings from better site lay-out and traffic flow. It is also expected that the near-term facility repairs will result in energy savings and decreased maintenance costs.

### WATER SUPPLY ENTERPRISE FUND

PROJECT: DPW 15 – 1 WATER SUPPLY DEPARTMENT PRIORITY: 1 of 5

Project Working Title: PIPE REPLACEMENT AND UPGRADE PROGRAM

Project Location: The drinking water distribution system for Hyannis, Hyannisport, and West

Hyannisport

**Project Description:** This is a continuation of a 30 year, phased, pipe replacement and upgrade program for the Hyannis Water System; as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan.

**Project Justification:** It is important to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are over 100 years old. This program is in addition to the routine maintenance and repair program to be performed by the contracted water system operator. The proposed capital budget for this pipe replacement and upgrade program is \$1,050,000 per year, and includes a capitally funded water works Project Manager to oversee and implement this program. This continuing project will ensure the long term ability of the Hyannis Water System to provide sufficient drinking water and fire readiness protection for all of its customers.

**Impact Of Denial/Postponement:** Water distribution capacity will continue to be less reliable over time, which would limit water supply availability during emergencies, for existing customers, and preclude the ability to accommodate new growth.

Project Cost Estimates: FY 2015 Design: \$150,000 Construction: \$900,000

**Basis for cost estimates:** Previous year's experience

Project Estimated Completion Date: June, 2015

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$1,050,000	Design / Construction
2016	\$1,050,000	Design / Construction
2017	\$1,050,000	Design / Construction
2018	\$1,050,000	Design / Construction
2019	\$1,050,000	Design / Construction

**Source of Funding:** Water Supply Division Enterprise Account, Water Capital Reserve, User Fees, borrow \$800,000, cash \$250,000

**Operating Budget Impact:** The upgrades will be to existing distribution system piping which are already maintained by the DPW. Replacing of these pipes will likely result in less maintenance costs, and should not result in the need for additional personnel (the Project Manager which is funded by this project, is an existing capitally funded position).

Project Working Title: WATER SUPPLY WELLS, PUMP STATIONS, AND TREATMENT PLANT REPAIR AND

**UPGRADE PROGRAM** 

**Project Location:** Existing wells, pumping stations, and treatment facilities

**Project Description:** This CIP is a continuation of the repairs and upgrades program started in FY2007. With the exception of the Straightway well #2, all of the wells were constructed in the early to mid-1970s. The prior year's monies were used to install emergency generators, lighting, fencing and implement pavement improvements. Starting in FY14, the Hyannis Water Board approved the recommendation to implement a structured rehabilitation program dealing with major facility components needing upgrades or replacements. These facility components include: buildings, process control equipment, safety & security equipment, and electrical equipment.

**Project Justification:** It is appropriate to implement a structured program to repair and upgrade the wells, pump stations and treatment facility as many of these components are approximately 40 years old. This program is in addition to, and may supplement, the routine maintenance program to be performed by the contracted water system operator.

**Impact Of Denial/Postponement:** Water supply and pumping capacity will become less reliable over time, thus limiting water supply availability for all customers and during emergencies.

Project Cost Estimates: FY 2015 Design: \$20,000 Construction: \$180,000

**Basis for cost estimates:** Experience with previous year's projects.

Project Time Estimates: Design (months): 2 Construction (months): 10

**Project Estimated Completion Date:** June, 2015

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$200,000	Design / Construction
2016	\$200,000	Design / Construction
2017	\$200,000	Design / Construction
2018	\$200,000	Design / Construction
2019	\$200,000	Design / Construction

Source of Funding: Water Supply Division Enterprise Account, Water Capital Reserve, User Fees, cash

**Operating Budget Impact:** The upgrades will be to existing extraction, treatment and pumping systems which are currently maintained by the DPW. Some Operating Budget savings may be realized by replacing existing equipment with more energy efficient equipment, and a reduction in maintenance costs. This project should not result in the need for additional personnel.

#### PROJECT: DPW 15 – 3 WATER SUPPLY DEPARTMENT PRIORITY: 3 of 5

Project Working Title: NEW WELL EXPLORATION PROGRAM

**Project Location:** Hyannis Water System Lands

**Project Description:** To continue the on-going new well exploration program with the permitting, designing and construction of two or more new wells for the Hyannis Water System. This capital request is for the second of the four phases of the new well exploration program.

The first phase consisted of exploratory test wells, environmental notifications, evaluations and recommendations. This second phase will deal with DEP new source approvals, 8" test wells construction, and 5 day pumping tests. The third phase will consist of the design and permitting of the new well buildings and appurtenances with all environmental impact reporting requirements. The fourth phase will be the construction phase.

**Project Justification:** Recent water quality study results indicated that three of the DPW's eleven wells have water quality issues (iron and manganese) that cannot be addressed with our current treatment system. In addition, the Mary Dunn 4 well is under the influence of surface water and can't be used. As a result, four of the eleven wells need to be replaced, or have additional treatment added to them.

**Impact Of Denial/Postponement:** The ability to provide the rate payers of the Hyannis Water System with the highest possible water quality will continue to deteriorate and the redundancy of water pumping capacity will diminish.

Project Cost Estimates: FY 2015 Design: \$ 583,000 Construction: \$0

**Basis for cost estimates:** Detailed proposals from two engineering firms.

**Project Estimated Completion Date:** FY2020

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 583,000	DEP New source approval process, 8" test wells, pumping tests.
2016	\$ 555,500	Design & Permitting for construction, MEPA Process, reviews.
2017	\$2,000,000	Well A. Project management funding.
2019	\$2,000,000	Well B. Construction, testing, commissioning.
2020	\$ 34,067	Well B. Project management funding.

Source of Funding: Water Supply Division Enterprise Account, Water Capital Reserve, User Fees, borrowing

**Operating Budget Impact:** It is expected that some moderate financial impact on the operating contract will occur after FY2017 due to slight increases in utility and maintenance costs. The dollar amount will be determined in FY 2016.

### PROJECT: DPW 15 – 4 WATER SUPPLY DEPARTMENT PRIORITY: 4 of 5

Project Working Title: PAINT AND REPAIR LARGE WATER TANK, MARY DUNN 2

**Project Location:** 1230 Mary Dunn Road, Barnstable, MA

**Project Description:** This water storage tank needs rehabilitation, upgrades, and painting on its interior and exterior. In addition, repairs are needed for the security fencing, gates and access road.

**Project Justification:** This project was recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. A detailed evaluation was done in August 2013 by Haley & Ward Engineers based on inspections by Merithew/Utility Services Corporation which confirmed this recommendation.

**Impact Of Denial/Postponement:** Denial or postponement of the project would allow further deterioration of the Mary Dunn 2 water storage tank. This deterioration would eventually need to be addressed, and the expectation is at a higher cost in the future. In the interim, security and sanitary integrity of the potable stored water could be compromised.

Project Cost Estimates: FY 2015 Design: \$68,400 Construction: \$615,600

Basis for cost estimates: Mary Dunn Tank 2 evaluation performed by Haley & Ward, Inc., August 2013.

**Project Estimated Completion Date:** June, 2016

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 68,400	Design
2016	\$615.600	Construction

Source of Funding: Water Supply Division Enterprise Account, Water Capital Reserve, User Fees, Borrow

**Operating Budget Impact:** The tank is an existing facility that is currently maintained by the DPW. Repairs/upgrades will potentially decrease near-term maintenance costs, but will not have a lasting impact on Operating Budgets.



Mary Dunn Tank 2

#### PROJECT: DPW 15 – 5 WATER SUPPLY DEPARTMENT PRIORITY: 5 of 5

Project Working Title: WATER MAIN UPGRADE, BARNSTABLE ROAD (MAIN STREET TO WINTER STREET)

**Project Location:** Barnstable Road, Hyannis, MA.

**Project Description:** This project will upgrade the water main on Barnstable Road from Main Street to Winter Street with approximately 3,200 feet of new cement lined, ductile iron pipe water main; and include new water gate valves and fire hydrants.

**Project Justification:** This project was recommended in our Water System Master Plan (Weston & Sampson Engineering, Inc. April 2007, Table 9-2, phase A-6).

**Impact Of Denial/Postponement:** Water quality and fire flow capacity in this area will continue to deteriorate, impacting and limiting water supply availability for existing customers and during emergencies.

Project Cost Estimates: FY 2015 Design: \$95,900 Construction: \$0

Future FY Construction: \$960,000

Basis for cost estimates: Derived from recently bid water projects

Project Estimated Completion Date: December, 2016

### **Project Cost/Description FY 2015 and Follow-On Years:**

FY Cost Project Description/Components
2015 \$ 95,900 Design

2016 \$960,000 Construction

Source of Funding: Water Supply Division Enterprise Fund, Water Capital Reserve, User Fees, Cash.

**Operating Budget Impact:** The upgrades will be to existing distribution system piping which is already maintained by the DPW. Replacing this pipe will likely result in less maintenance costs, and should not result in the need for additional personnel.



**Excavation Involving Water Pipe Replacement Hyannis** 

#### WASTE WATER ENTERPRISE FUND

PROJECT: DPW 15 – 1 WATER POLLUTION CONTROL DEPARTMENT PRIORITY: 1 of 3

Project Working Title: SEPTAGE BUILDING CAPACITY EVALUATION

**Project Location:** 617 Bearse's Way, Hyannis, MA

**Project Description:** An evaluation of how the Water Pollution Control Facility (WPCF) handles its sludge, the facilities it uses to do so, and its ability to handle additional sludge in the future with the expected increased flows.

Project Justification: Currently, the WPCF thickens its sludge to approximately 5% solids and trucks it off Cape Cod to a disposal facility. With rising fuel prices, this has increasingly become a very expensive operation. Technology exists that could dewater the sludge to approximately 25-30% solids, thus significantly decreasing the costs to dispose of these byproducts. To do this, the existing facilities would need to be reconfigured. The Septage Building, where the solids are currently processed, was designed in the late 1980s and built in 1990. It is at the end of its design life, and badly needs an upgrade anyway. The building processes over 12,000,000 gallons of sludge a year, and approximately 11,000,000 gallons of septage a year. The mechanical equipment, piping, and structure all need to be evaluated and assessed for future operations and expected increased flows. This project would hire qualified consultants to evaluate the existing structure, look at the available technology/process options to handle/dispose of sludge, and make recommendations as to how best to upgrade the facility to increase operational efficiency and reduce annual costs. These recommendations, if approved, would then become designs and ultimate lead an upgrade of the solids handling facilities.

Impact of Denial/Postponement: The results of denial of this CIP would be continued escalating costs to handle and dispose of the facilities sludge. Continued inefficient sludge operations based on 1980s thinking/technology. The potential that the WPCF would be unable to accommodate the sludge from the Town's anticipated future sewer expansion. Possible staff safety issues as equipment and facilities are allowed to continue to age beyond their design life to the point of failure.

Project Cost Estimates: Design: \$:450,000 Construction: \$3,500,000

Basis for cost estimates: Consultant estimate

Project Estimated Completion Date: July, 2017

### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 300,000	<b>Evaluation and Begin Design</b>
2016	\$1,650,000	End Design and begin Construction
2017	\$2,000,000	Finish Construction

Source of Funding: Wastewater Enterprise Reserve

**Operating Budget Impact:** It is expected sludge transportation costs would dramatically decrease, chemical costs may slightly increase, the new facilities would likely be more energy efficient that the existing, and as this operation is replacing an existing one, it is not expected it would require any additional personnel. Therefore, we should expect a net savings to the operational budget, the magnitude of which will not be determinable until after the initial evaluations have been completed and a plan is put in place.



**Septage Building Located at the Treatment Plant** 

### PROJECT: DPW 15 – 2 WATER POLLUTION CONTROL DEPARTMENT PRIORITY: 2 of 3

**Project Working Title: GENERATOR STORAGE BUILDING Project Location:** 617 Bearse's Way, Hyannis, MA

**Project Description:** Design and Construction of secure structure to store the Water Pollution Controls Facility's portable generators.

**Project Justification:** The Water Pollution Control Division has five large portable generators. These must be available for use, at a moment's notice, throughout the community, to provide emergency power for the collection system's pump stations. These generators are a piece of the Town's emergency response/power outage response capability, and represent a significant investment. They should be stored in a secure and dry area, and be ready for use. Currently the generators are stored outside, in poor conditions.

**Impact of Denial/Postponement:** Equipment will be poorly protected, which will accelerate its deterioration and decrease the time between replacements.

**Project Cost Estimates:** Design: \$23,000 Construction: \$109,000

**Basis for cost estimates:** DPW in-house cost estimate.

**Project Estimated Completion Date:** July, 2016

#### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$132,000 Design and construct a generator storage building

Source of Funding: Wastewater Enterprise Reserve

**Operating Budget Impact:** The new building will extend the lives of the generators, and reduce maintenance requirements. It also will result in slightly higher utility costs (electricity for lighting, and possibly heat). It is not expected to require any additional personnel. As a result, we feel it will have negligible impact on the Operation Budget.



**Portable Generator Stored Outside With Other Equipment** 

#### PROJECT: DPW 15 – 3 WATER POLLUTION CONTROL DEPARTMENT PRIORITY: 3 of 3

Project Working Title: TOTAL ORGANIC COMPOUNDS (T.O.C.) AND TOTAL NITROGEN (TN) EFFLUENT

**LIMITS EVALUATION** 

**Project Location:** 617 Bearse's Way, Hyannis, MA

**Project Description:** This Project will evaluate, make recommendations, and ultimately design and construct improvements to the Water Pollution Control Facility (WPCF) to meet new Commonwealth of Massachusetts effluent discharge requirements. The State has recently decreased the allowable limit of TOC discharged into a Drinking Water Zone II to 3 mg/l. The WPCF's discharge is in a Zone II.

**Project Justification:** TOC Effluent Limit of 3 mg/l is a State regulation, but is not currently enforced. However, conservation groups are initiating lawsuits that are expected to result in State enforcement. The Town must be prepared to comply with this State regulation or face the potential of costly fines.

**Impact of Denial/Postponement:** If the WPCF is not prepared (upgraded) for the new regulations when they are enforced, the Town will be in violation and subject to costly fines. These will remain in effect until the facility has been upgraded. Waiting on this CIP will result in ultimately having to do this project anyway, but at a later time (assumed more expensive) and while paying fines to the Commonwealth.

Project Cost Estimates: Design: \$800,000 Construction: \$10,000,000

Basis for cost estimates: Consultant's estimate

Project Estimated Completion Date: Fall, 2019

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 200,000	<b>Evaluation and Design</b>
2016	\$ 600,000	<b>Evaluation and Design</b>
2017	\$4,000,000	Construction
2018	\$4,000,000	Construction
2019	\$2,000,000	Construction

**Source of Funding:** Wastewater Enterprise Reserve

**Operating Budget Impact:** Upgrades to the facility to address additional removal to the TOC will result in additional energy costs, additional maintenance costs, and could result in the need for additional personnel. Until the evaluation is complete and a design has been decided upon, it is very difficult to predict the magnitude of these impacts to the Operational Budget.

# **GENERAL FUND PROJECTS**

### **ADMINISTRATIVE SERVICES**

PROJECT: ADMIN-15 -1 INFORMATION TECHNOLOGY DEPARTMENT PRIORITY: 1 of 2

Project Working Title: AERIAL FLYOVER & MAPPING UPDATE

**Project Location:** Town-wide

**Project Description:** The purpose of this project is to update the current maps in the Town's Geographic Information System. These GIS "base maps" depict features such as roads, buildings, parking lots, water bodies, vegetation, and topography. The maps were originally produced through a process called photogrammetry from aerial photographs taken in 1989. In keeping with a planned update interval of 6-7 years, subsequent aerial flyovers were completed in 1995, 2001, and 2008. The goal of this project is to update the GIS base maps during FY2015.

The process of updating the maps is divided into two major portions: aerial photography and digital map compilation. The first portion includes the aerial flight itself, and the processing of aerial images to produce map-accurate aerial photos. The second portion involves using the processed aerial photos to update the GIS maps. Essentially, new map features such as buildings are traced, or "compiled" from the aerial photographs onto a digital map.

In past years, the Town has undertaken both portions of the process: aerial photography and map compilation, on our own. This year, an opportunity has arisen to take part in a regional aerial flyover in conjunction with Barnstable County, the US Geological Survey, and a consortium of other Massachusetts towns known as the MassOrtho project. The Town has already agreed to take part in this regional project which will cover the first part of the process: aerial photography and image processing, at a considerable cost savings to the Town.

The purpose of this CIP request is to leverage the results of the regional project and complete the second portion of the process - digital map compilation. Due to the cost savings from the regional aerial photography, the Town will be able to complete both phases of the project for considerably less money than in years past.

**Project Justification:** The last update to the GIS base maps occurred in 2008. As the Town continues to develop and change due to new construction, the GIS maps become more and more outdated. Most Town departments currently use the GIS maps as an aid to their decision making process. As time passes, and the maps become a less accurate representation of reality, the GIS will become a less valuable tool. There will be more risk of making decisions based on outdated information. At this point, the most practical, cost effective, and accurate method of updating the GIS maps is to conduct an aerial flyover and subsequent photogrammetric mapping.

The GIS maps that would be updated by this project are used by nearly every Town department and division to support the Town's strategic goals as well as the Town's daily operational needs. Some specific examples include:

- Maintenance and management of roads including pavement management, transportation planning, parking, and snow & ice removal
- Infrastructure maintenance and management (water supply, sewer, & storm water)
- Management of natural resources and public health issues such as shellfish beds, drinking water supplies, and nutrient management

- Maps to support police and fire department operations
- Maps to support planning and Growth Management issues such as the Growth Incentive Zone, Local Comprehensive Plan, and economic development
- Management of Town properties and facilities such as the Solid Waste Transfer Station, the Water Pollution Control Facility, the Barnstable Municipal Airport, Sandy Neck, and Town Conservation areas
- Maps and analysis to identify potential open space land acquisitions.

The GIS maps are also used extensively by outside consultants working on a myriad of Town projects such as the wastewater facilities plan, airport terminal expansion, road reconstruction projects, build-out analyses, etc. The Town saves considerable money on these projects because detailed GIS data are already available to the consultants. The general public also makes use of the GIS maps either through the interactive maps on the Town website or through the GIS office in Town Hall. Public uses of the GIS range from site maps for shed permits, to abutter notification mailing lists, to detailed topographic maps.

**Impact of Denial/Postponement:** If this project is not funded, Town departments will have to continually verify items on the GIS maps through time consuming field checks. This will result in more time lost in order to ensure that the information is up to date and correct. If the maps are not updated, the GIS will become a less effective aid to decision making and may lead to decisions being based on incorrect information. In summary, any type of analysis using the current information will become more obsolete as time passes. The usefulness of the Town's investment in GIS will diminish as time progresses.

Project Cost Estimates: Design \$140,000 Construction \$

**Project Estimated Completion Date:** December 2015

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$140,000 Digital Map Compilation

Source of Funding: General Fund

**Operating Budget Impact:** There will be no impact on the operating budget other than the overhead associated with existing town staff managing the project (project management & QA/QC). No additional salary or other operating costs will be incurred by this project and there will be no additional ongoing maintenance costs, etc.

### PROJECT: ADMIN-15 -2 INFORMATION TECHNOLOGY DEPARTMENT PRIORITY: 2 of 2

Project Working Title: SUMMER AERIAL FLYOVER OF WATERWAYS

**Project Location:** Town-wide

**Project Description:** The purpose of this project is to conduct a summertime aerial flyover to obtain new aerial photographs of the Town's coastal and inland waterways. This project, to occur during the summer of 2015, would produce digital aerial photographs of the Town's northern and southern coastal areas as well as inland lakes and ponds. The purpose is to accurately map the location of marine and natural resource items such as mooring fields, boating channels, buoys, shellfish grants, docks, piers, and floats. The summertime frame is necessary to capture seasonal items such as seasonal docks and mooring fields that are only in place during the summer months. This project was specifically requested by the Harbormaster and Conservation Divisions to assist with their management of coastal waterways and enforcement of dock, pier, and wetland regulations.

**Project Justification:** The purpose of this project is to provide information tools to enhance the management of our coastal waterways, lakes, ponds, and natural resources. The results of this project would benefit a variety of programs within the Harbormaster, Natural Resource, Conservation, and Engineering divisions. Such programs would include:

- Planning & managing the efficient use of mooring fields
- Management of shellfish resources & aquaculture grants
- Regulation & permitting of docks, piers, & floats
- Enforcement of wetland protection laws
- Planning & management of channel dredging projects
- Inventory of nautical infrastructure (i.e. buoys, beacons, boating channels)
- Management of Sandy Neck
- Monitoring of waterway sedimentation
- Monitoring of shoreline erosion.

This project is separate from the Aerial Flyover & Mapping Update CIP request. That project must be photographed during a limited timeframe in the early spring – after the snow has melted and before the leaves have appeared on trees. This is to maximize the visibility of features on the ground such as roads and buildings. A flyover of coastal and inland waterways must occur during the summer months when seasonal docks and floats are in place and mooring fields are utilized. In addition, the waterway flyover must occur in the early morning hours to minimize sun glare on the water surface. This same early morning timeframe is not suitable for the Aerial Flyover & Mapping Update project – it would cause too many shadows obscuring features on the ground. In addition, the Summer Aerial Flyover must have strict limitations on tidal and wind / wave conditions in order to maximize visibility of waterways. Due to the unique constraints of each of the two projects, they cannot be combined into a single flyover.

**Impact Of Denial/Postponement:** If this request is not funded, the Harbormaster, Natural Resources, Conservation, and Engineering Divisions will have to rely on outdated information for managing our waterways and natural resources. Since the last waterways flyover ,there has been significant change to our coastal resources. Shorelines and channels have shifted, new docks and piers have been constructed, aquaculture grants have been modified, and channels have been dredged. It is important to keep up with such changes and to provide current and accurate information for the management of the Town's coastal and inland waterways.

Project Cost Estimates: Design \$86,500

**Project Estimated Completion Date:** Spring 2016

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$86,500	aerial photography, aero triangulation,
		orthophoto production

Source of Funding: General Fund

**Operating Budget Impact:** There will be no impact on the operating budget other than the overhead associated with existing town staff managing the project (project management & QA/QC). No additional salary or other operating costs will be incurred by this project and there will be no additional ongoing maintenance costs, etc.

### **COMMUNITY SERVICES**

PROJECT: CS -15-1 RECREATION DEPARTMENT PRIORITY: 1 of 17

Project Working Title: BEACH HOUSE RENOVATIONS

**Project Location:** Various Town Beaches

**Project Description:** This project would fund the improvements at the Town's Beach Houses. This multi-year project is a continuation of a beach program to keep bath houses updated on the interior & exterior, and be fully operational. These funds would provide for design and renovation/construction as follows:

- Craigville Beachhouse
- Covell's Beachhouse
- Osterville Beachhouse
- Pavilion at Kalmus Beachhouse
- Loops Beachhouse
- Joshua's Pond Bathhouse Site Improvements

**Project Justification:** These buildings have been patched, repaired and painted but heavier renovations are now necessary. The beach houses are in need of new fixtures and service systems throughout with regards to plumbing, electrical and air-handling equipment as well as structural: walls, ceilings and floors renovations. It is not solely cosmetic; many of the needs are safety related. In some cases, it is recommended that the structure be demolished and replaced with a new facility.

**Describe Work Previously Accomplished:** New replacement septic systems have been installed at Joshua's Pond and Hathaway's Pond. Septic systems have been previously replaced at Covell's Beach; a new sewer connection and pumps at Kalmus Beach; and septic system designed at Craigville. The Kalmus pavilion has been repaired with new wood columns. Funding in FY2014 (\$115,000) allowed for the initiation of design and permitting services for the Craigville Bathhouse. Additional funds are needed in FY2015 for permitting and the completion of design documents and contract administration services for this premier south shore beach facility.

**Impact Of Denial/Postponement:** Continued deferred maintenance of these facilities will contribute to their deterioration and demand a total and costly replacement. Replacement of worn facilities with new ones will insure the high standard of recreational facilities in our town.

Project Cost Estimates: FY 2015 Design: \$396,000

Basis for cost estimates: In-house Engineer's estimate

**Project Estimated Completion Date:** 2017 (Craigville Beach House)

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 301,500	Craigville Beach House Additional Design + Permitting
2016	\$3,227,385	Craigville Beach House Construction
2017	\$ 129,000	Osterville Beach House Design + Renovations
2018	\$1,594,300	Design and Construction for Covell's Beach House
2019	\$ 407,400	Dowses Beach House Renovation

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and

maintenance costs.

PROJECT: CS -15-2 SENIOR SERVICES DEPARTMENT PRIORITY: 2 of 17

Project Working Title: BARNSTABLE SENIOR CENTER PARKING LOT EXPANSION

**Project Location:** 825 Falmouth Road, Hyannis, MA

**Project Description:** The Senior Center has a very successful program and, as such, has developed a significant need for additional visitor parking. Project includes: tree clearing, new base and bituminous pavement, Cape Cod berms, site lighting, rain garden, and landscaping.

**Project Justification**: Currently the size of the existing lot is too small to accommodate the additional parking needed at many of their events.

**Impact of Denial/Postponement**: With the increase in participants in Senior Center activities, finding parking is difficult for the elderly citizens. With poor weather conditions and many events occurring in the evening, it is important to have good smooth pavement, adequate parking and lighting so that the liability to the Town is well managed. The costs for bituminous materials continue to rise due to issues with oil. Delay in the project will only result in increased cost

Project Cost Estimates: FY2015 Design: \$36,400 Construction: \$253,760

Basis for Cost Estimates: DPW Engineering

Project Estimated Completion Date: Fall, 2015

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$290,160 Design & Construction

**Source of Funding:** General Fund and "Friends of the Senior Center" - Donation

Operating Budget Impact: \$3,000 electrical annually due to additional lighting of parking lot



**View of Existing Parking Lot** 

PROJECT: CS -15-3 RECREATION DEPARTMENT PRIORITY: 3 of 17

Project Working Title: LOPES FIELD DESIGN AND CONSTRUCTION

**Project Location:** Old Colony Road, Hyannis

**Project Description:** This is a request to rebuild the Lopes ball field in Hyannis. This year's monies would be used to hire a qualified consultant to evaluate the existing field, assist with permitting, and provide design documents for construction. Additional monies in subsequent years would be required for construction of the project. It is expected that, at a minimum, the project will include new fencing, a new backstops, replacing the bleachers, replacing the "dug-out" areas, either replacing or removing the playground equipment, reconstructing the parking area, replacing the infield, and possibly re-grading and reseeding the outfield.

**Project Justification:** The existing Lopes Field is in very poor shape, and a significant safety concern; yet, is used by Sturgis Charter Public High School, Pope John Paul II High School, and a number of other groups as a practice and game facility. The facility has deteriorated to the point that the Town needs to invest in the property, or bar its use.

**Impact Of Denial/Postponement:** Due to the safety issues, and condition of the facility, the impact of denial or postponement will result in the loss of use of the facility.

**Project Cost Estimates:** FY 2015 \$ 0

Basis for cost estimates: DPW internal estimates.

**Project Estimated Completion Date:** April 2016

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$100,000	Design and Technical Services
2017	\$550,000	Construction

Source of Funding: General Fund

**Operating Budget Impact:** Lopes Field is currently owned by the Town and Maintained by the DPW. Foreseeable changes would not significantly add to that maintenance burden.

**Supplemental Information:** During the winter of 2012/13 the equipment shed was burned to the ground. A small insurance settlement is available to help with that aspect of the project.





**Existing Fencing** 





Home Plate Bleachers

PROJECT: CS -15-4 RECREATION DEPARTMENT PRIORITY: 4 of 17

Project Working Title: VETERANS PARK STRATEGIC PLAN AND CAMPUS DESIGN

**Project Location:** Veterans Park, Hyannis

**Project Description:** This is a request for funds to hire a qualified consultant to work with various constituent groups in Town (public and private) and create a strategic plan for Veterans Park. After that plan has been approved, the funds would also be used to translate that plan into a preliminary design for the entire facility that the Town can then implement over time, and a final design for the new playground.

**Project Justification:** As currently laid out, Veterans Park serve three distinct functions. It is a picnic area for beachgoers, it has a playground for young people, and it has a memorial area for reverence and reflection. The playground has reached the end of its useful life and needs to be completely replaced. The picnic area has new tables, but may not be located in the best area on the property for the use. The Town has military related memorials spread across Town, many of which are ignored by the public, and some of which need to be relocated (for example, the memorials currently located at the VFW building). It may be logical to relocate these to the park, but a memorial plot plan does not exist to inform DPW as to the appropriate location to place them. The Town is also lacking that one space where it can focus it attention during events such as Memorial Day, Veteran's Day, 9/11, etc. The plan is to look holistically at the entire property. Can it better provide a place for resident/visitor contemplation, celebration, commemoration, and recreation? Do these functions have to be physically separated? Can it be designed in such a way to complement the JFK memorial experience that is enjoyed by many visitors to Barnstable, and serve as an additional reason to visit Hyannis?

**Impact Of Denial/Postponement:** The impact of denial or postponement will result in the loss of the playground as major portions of it have deteriorated to the point of being unsafe and non-usable; a piecemeal, uncoordinated, approach to projects in the park; a lost opportunity to create an additional attraction in Town and further attract tour buses, etc to that area of the community; a lost opportunity to create a space where the community can maintain its military related monuments that represent a physical expression of gratitude for our veterans.

**Project Cost Estimates:** FY 2015 Planning & Design \$ 50,000 Construction \$ 0

Basis for cost estimates: DPW internal estimate

**Project Estimated Completion Date:** November 2015

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$50,000	Planning and Design

2016 \$ TBD Design & Construction (Awaits results of FY 15

planning/design)

Source of Funding: General Fund

**Operating Budget Impact:** None, Veterans Park is currently owned by the Town and maintained by the DPW. Foreseeable changes would not significantly add to that maintenance burden.





**Playground Area** 

**Veterans Park** 

Picnic Area

PROJECT: CS -15-5	MARINE & ENVIRONMENTAL AFFAIRS	DEPARTMENT PRIORITY: 5 of 17
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Project Working Title: TOWN WIDE COMPREHENSIVE DREDGE PROGRAM AND COMPREHENSIVE PERMIT

Town Wide - harbor entrance channels, rivers, bays, and freshwater pond channels

(herring runs, etc) that require periodic programmed dredging.

#### **Project Description:**

A. Dredge Program. Develop a strategic plan for dredging that establishes dredge reoccurrence intervals. This will allow the DPW to become proactive vs. reactive to dredging requirements; and allow the

Department to reasonably predict when dredging will be required for a given water body and plan and budget for the same. It is expected that the creation of the plan will include a review and compiling of all existing information from past permits and studies concerning dredging efforts; review of the use, and potential boat traffic (quantity, draft depths needed, etc), of that particular channel; review of the scientific conditions at each river/harbor; develop predicted timelines for dredge reoccurrence; conduct sampling of sediments at each site to help predict the potential disposal requirements for dredge spoils from that particular site. All of this will be synthesized into a report that can be used as a guidance document for the DPW for years to come.

B. Comprehensive Dredge Permit. Develop and submit an application for the Comprehensive Dredge Permit to all permit governing agencies to include Commonwealth of Massachusetts (MEPA,NHESP,CH 91 & 401 –permits, CZM review), United States Army Corps of Engineers and local Conservation Commission. Work with those agencies until the permits have been issued to the Town. Part of this process will include identifying dredge spoil disposal locations for each dredge site. This will be done in coordination with the Dredge Comprehensive Plan work.

**Project Justification:** During this past summer, Hyannis Harbor needed to be dredged after it was discovered that vessels were bottoming out while trying to enter the harbor. Fortunately, this work was not funded through the DPW, but had it been, the DPW was not finically prepared. It brought to light that these channels are major pieces of infrastructure (much like roads) that have significant commercial and recreational uses, and a requirement for reoccurring maintenance. However, DPW does not currently have a sense of when to budget for this maintenance. The dredge plan is meant to be a guidance document to help the Department plan and budget wisely for such work. A Comprehensive Dredge Permit offers considerable savings in administrative effort and time, as opposed to individual needs permits

**Impact Of Denial/Postponement:** A haphazard, reactive, approach to dredging the Town's channels. The possibility that a dredging requirement will surface that we do not have the funds to address. The loss of commercial and recreational monies when channels become clogged and unusable.

**Project Cost Estimates:** Design: \$175,000 Permit \$175,000

**Basis for cost estimates:** Detailed discussions and input from professional consultants and review by the authors.

**Project Estimated Completion Date: 2015/2016** 

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$175,000	Strategic Plan
2015	\$175,000	Comprehensive Dredge Permit

**Source of Funding:** General Fund

**Operating Budget Impact:** None - the DPW is currently maintaining these channels. It is expected this work will allow it to do this more efficiently.

Project Working Title: BLISH POINT SAND MANAGEMENT - 3 PHASE PROJECT

**Project Location:** Blish Point, Barnstable Harbor

**Project Description:** This project involves a two-pronged approach to the sand loss issues at Blish Point. The first is to design and construct an immediate, near term, solution to protect the point. The second involves designing and constructing a more permanent solution. To date, DEP has indicated a willingness to permit the proposed near term solutions, but has generally been hesitant about the more permanent solutions.

Therefore, we recommend the following approach to the project:

- Undertake the design effort for both the near term and more permanent solutions at the same time.
   That way, as the near term solution is being designed; work can be done with DEP on approving the concept for the longer term project
- Undertake the construction of the near term solution
- Undertake the construction of the more permanent solution.

If sufficient progress can be made with DEP during the design efforts that it becomes obvious that the more permanent solution can be permitted and built on close to the same schedule as the near term solution, then the near term solution will be abandon and only the permanent solution will be submitted for construction funding. But, if permitting of the more permanent solution is going to be a long and protracted process (at times measured in years), then the near term solution will be constructed and will be protecting the point while the permitting issues for the more permanent solutions are being resolved.

**Project Justification:** On two occasions a side slope soft solution for erosion control for the sedimentation basin has been installed, and each time it has failed. The erosion along the dune edge has continued to provide the source of sand and sediment that is filling in the Barnstable Inner Harbor. This has resulted in the need for regular removal of deposited sand at the State boat ramp, and sand continues to fill in the recently dredged areas of the harbor.

**Impact Of Denial/Postponement:** The dune edge will continue to erode and eventually completely breach the sedimentation basin, releasing undesirable sediment onto the beach and into the Inner Harbor.

Project Cost Estimates: Design: \$215,000

Basis for cost estimates: Engineer assisted in-house estimate

Project Estimated Completion Date: Total Project Winter 2017 (if the work is performed in series)

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$215,000	Design /Permitting - Temporary and Long Term Solution
2016	\$300,000	Construction of Temporary Solution (if necessary)
2017	\$1,575,000	Construction of Restoration of the basin area - Long term solution

**Source of Funding:** General Fund

**Operating Budget Impact:** This work will protect the basin area from loss thus saving future costs for boat ramp/harbor dredging.







**Examples of Erosion** 

PROJECT: CS -15-7 MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT PRIORITY: 7 of 17

**Project Working Title: MARSTONS MILLS FISH RUN** 

**Project Location:** Running from Middle Pond, Marstons Mills to the Marstons Mills River

**Project Description:** The project consists of replacing the existing fishway structure that is constructed with a variety of materials, including plywood. It is proposed to remove the existing materials and replace with a standardized wood structure for the entire 1,100 foot run. The construction will create minimal disturbance to the immediate surroundings, as excavation for and construction of, the new fishway will be done within a confined space by means of a prefabricated "trench box".

**Project Justification:** The existing fishway is deteriorating rapidly, certain sections have completely rotted, requiring immediate maintenance. This resource is very important to maintain the successful passage of fish in this area. The preservation of a historical, cultural and economic heritage is a high priority of the Town. Also, predatory species of many kinds depend on the annual herring run.

**Impact of Denial/Postponement:** The fish run will continue its rapid deterioration requiring continued ineffective an uneconomic maintenance. Eventually the run will not be functional and fish will not be able to reach Middle Pond to spawn. Approximately 9,000 herring have been counted at this location in recent years.

**Project Cost Estimates:** FY 2015 Design \$ 50,000 Construction \$343,500

Basis for Cost Estimates: DPW Engineering Estimate

**Project Estimated Completion Date:** February 2015

Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u> <u>Cost</u> <u>Project Description/Components</u>

2015 \$393,500 Design & Construction

**Source of Funding:** General Fund

**Operating Budget Impact: None** 





Fish Run

PROJECT: CS -15-8 RECREATION DEPARTMENT PRIORITY: 8 of 17

Project Working Title: CENTERVILLE COMMUNITY BUILDING IMPROVEMENTS

**Project Location:** Main Street Centerville

**Project Description:** Additional interior work: This project will fund the on-going historic adaptive reuse improvements to the Centerville Community Building and surrounding facilities. For the past several years, we have been making improvements to the interior and exterior of the building and adjoining program areas. These funds will continue repair tasks of greatest concern for the upcoming years. These improvements include:

- Renovate restrooms to make ADA compliant
- Improvements to electrical service, lighting and power distribution
- Improvements to life safety electrical exit signage, lighting, and alarm systems
- Replacement of ineffective HVAC controls
- Replace period windows with new energy saving units
- Additional wall and ceiling insulation for energy savings
- Window treatments (blinds).

**Project Justification:** The Centerville Community Center building is a facility that is heavily used by Recreation Division programs, and the public on a daily basis, with its adjoining playground and ball field. It is one of the busiest Town facilities used by our residents and programs. Continuing to renovate and maintain this town asset adds to the preservation of a historic town resource. Funding the improvements would alleviate hazards and help to make it a safer facility. The HVAC DDC (direct digital control) hook-up will ensure a reduction of operating costs by regulating, scheduling and controlling the energy being used in the building. This portion of the CIP utilizes an innovative method of monitoring the building, giving us the ability to improve efficiency and help make the building comfortable without the need to send staff to make an adjustment on site. Given the heavy use of this facility, the interior needs a significant amount of upkeep and maintenance which has been deferred for years. Our intention is to bring the building up to standard for safe use by all the citizenry.

Work Previously Accomplished: Clapboards have been removed and replaced, improvements to parking lots, including pavement, curbs, landscaping, site lighting and ADA access ramp; drainage improvements; and

related site work have been completed. The roof has been replaced. The septic system has been replaced with a Title V compliant system. Interior painting and wood floor refinishing has been completed. Exterior painting has been completed and the rear fire escape has been replaced.

**Impact of Denial/Postponement:** Lack of funding may result in closure of the building for program use due to non-compliant building, fire safety code issues, and emergency egress problems. Continued deferred maintenance will result in deterioration of interior finishes, electrical and mechanical systems.

**Project Cost Estimates:** Design: \$27,800 Construction: \$157,200

Basis for cost estimates: DPW Engineering

**Project Estimated Completion Date:** Summer, 2016

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$185,000	Improvements to electrical service, lighting and power
		distribution, Improvements to life safety electrical exit signage,
		lighting, and alarm systems, renovate restrooms, emergency signage
		and lighting
2016	\$211,500	DDC (Direct Digital Controls) installed, A/C installation
2017	\$226,200	Wood floor refinishing
		Window treatments (blinds)
		Replace period windows and doors with new energy saving units
		Additional wall and ceiling insulation for energy savings
		Interview resinting and restaurtion

Interior painting and restoration

**Operating Budget Impact:** Improved energy efficiency. Savings of \$2,000 a year starting in FY2017. With the installation of the digital control for the HVAC controls, energy savings will be realized with the much finer remote monitoring and adjusting of the HVAC functions.

PROJECT: CS -15-9 MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT PRIORITY: 9 of 17

Project Working Title: MILL POND & LONG POND FISH WAYS

**Project Location:** Mill Pond Adjacent to Route 149 Marstons Mills and Long Pond

**Project Description:** Design and construction for the repair and /or replace flume and control structures at Mill Pond, together with protective railings and pedestrian access and provide a new control structure at Long Pond. Work includes excavation of old concrete structures, repair of stone protection, installation of concrete control structures with the ability to install "flash boards" to control water levels in the ponds.

**Project Justification:** Fishways and associated works provide a basis for the continuation of the historic and natural process of fish spawning in our ponds. There are extensive cultural and economic benefits associated with this project.

**Impact of Denial/Postponement:** Delay of design and eventual construction of these projects will result in the inability of fish to access the headwaters and therefore upset the balance of nature in the ponds. This will in turn negatively affect the cultural and economic benefits gained.

**Project Cost Estimates:** FY 2015 Design \$ 42,000 Construction \$0

FY 2016 Construction \$168,000

Basis for cost estimates: DPW Engineering Estimates

**Project Estimated Completion Date:** December 2015

## **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components

2015 \$42,000 Design and Permitting

2016 \$168,000 Construction (\$145,000 Mill Pond/ \$23,000 Long Pond)

**Source of Funding:** General Fund

**Operating Budget Impact**: None







**Temporary Water Control – Long Pond** 

PROJECT: CS -15-10 RECREATION DEPARTMENT PRIORITY: 10 of 17

**Project Working Title: LOMBARD FIELD IMPROVEMENTS** 

**Project Location:** West Barnstable Community Building (WBCB) and Site

**Project Description:** These funds would provide for an expanded parking lot with bituminous paving, storm water management; roadway to the Old Selectmen's Building; site lighting and landscaping; new bleachers, renovated press box and baseball field. The access driveway should be widened to improve sightlines onto busy Route 149, and ADA parking located adjacent to the ADA ramp into the building; and other relative site improvements, new press box and baseball field.

**Project Justification:** The parking lot is too small to handle the regular use of the WBCB and ball field. Additional storm water control for the expanded lot is required. With the use this facility gets, site lighting (dark sky fixtures) for the safety of visitors within the parking area is needed while keeping the light from offending the neighbors. The existing old and rusted bleachers need to be relocated and be replaced. The press box is termite and carpenter ant ridden and has become a safety issue because of its decay and

deterioration of the electrical lighting system. It must be torn down and rebuilt with the electrical capability to power up proper field lighting. The baseball field needs to be completely rebuilt as a safe and useable field free of ruts, holes and with good drainage.

**Work Previously Accomplished:** The parking lot has been reorganized to include timber guide rails to define parking areas and improve spectator safety. Press Box has been painted, but is in need of repairs. Luke's Love Playground has been installed.

**Impact of Denial/Postponement:** Poor parking organization and traffic flow contribute to an ongoing safety concerns especially with poor night lighting. With the new local housing development, and the new ADA playground and improvements to the WBCB, activity will increase on site; thus our concerns increase for additional site improvements and additional parking. The press box will soon become unusable and field lighting will no longer function properly. The fields are in need of reconstruction for proper drainage and of a flat smooth surface so as not to be a hazard to the players.

**Project Cost Estimates:** FY 015 \$0

Basis for cost estimates: DPW Engineering Estimate

**Project Estimated Completion Date:** Summer 2018

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$156,192	Additional Design
2017	\$988,761	Parking lot expansion & pavement, landscaping, drainage, site lighting, new bleachers, and fencing, press box & new
		baseball field, etc.

**Source of Funding:** General Fund also potential of future CPA funding

Operating Budget Impact: Additional cost of energy \$1,500 for site lighting beginning FY2018





**Lombard Field Press Box & Fence** 

**Lombard Field Bleachers** 

## PROJECT: CS -15-11 RECREATION DEPARTMENT PRIORITY: 11 of 17

Project Working Title: VETERANS BEACH, PARKING LOT REPLACEMENT

**Project Location:** Veterans Beach, Hyannis

**Project Description:** This is a request to resurface the Veterans Beach parking lot in Hyannis.

**Project Justification:** As can be seen in the attached photos, the existing parking lot is at the end of its useful life. It is uneven and has heaved/sunk in areas. This project will add an overlay to the existing layout, which should extend the life of the parking lot by 5 to 10 years.

**Impact Of Denial/Postponement:** The impact of denial or postponement will result in the further, unchecked, deterioration of the parking lot and eventual loss of use.

**Project Cost Estimates:** FY 2015 Design \$ 0 Construction \$ 85,000

Basis for cost estimates: DPW internal estimate

Project Estimated Completion Date: November, 2014

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components

2015 \$85,000 Construction

**Source of Funding:** General Fund

**Operating Budget Impact:** None, the parking area is currently owned by the Town and Maintained by the DPW. Foreseeable changes would not significantly add to that maintenance burden.









**Veteran's Beach Parking Lot** 

## PROJECT: CS -15-12 MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT PRIORITY: 12 of 17

Project Working Title: HYANNIS BREAKWATER REPAIR

**Project Location:** Hyannis Harbor

**Project Description:** The project consists of analysis and design necessary to determine the repairs of the Town's section of the stone breakwater at Hyannisport.

**Project Justification:** The breakwater has been damaged by wave action over many seasons. The poor condition of the breakwater is a safety hazard for fishermen who fish from the breakwater. Further deterioration will compromise the protection to the harbor afforded by the breakwater.

**Impact of Denial/Postponement:** Postponing the project will allow the breakwater to further deteriorate, reducing its ability to protect the harbor as well as continuing to pose a safety hazard to those who fish from it.

**Project Cost Estimates:** FY2015 \$0

Basis for cost estimates: DPW Engineering

**Project Estimated Completion Date:** December 2016

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$150,000	Analysis, Design & Permitting
2017	\$0	
2018	\$1,500,000	Construction

Source of Funding: General Fund

Operating Budget Impact: None. A reconstructed breakwater should be maintenance free



**Showing Displacement of Breakwater Stones** 

Project Working Title: MEA EXISTING FACILITY UPGRADES
Project Location: 1189 Phinney's Lane, Centerville

**Project Description:** The existing Marine and Environmental Affairs building was constructed over 20 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 20 employees working out of this facility not counting seasonal staff.

**Project Justification:** The Marine and Environmental Affairs facility has seen no major renovation work since its construction in 1979. An ongoing program of renovations is necessary in order to protect the Town's building assets and assure reliability in the future for this unit's operation. Many identified improvements are life safety and code compliance issues. The reorganization of office space is essential to accommodate staff and is need of renovation work to bring standards up to code.

**Work Previously Accomplished:** The overlay roof replacement has been completed. The HVAC system was replaced in FY 2008. HVAC system was replaced in order to resolve air quality issues within the building. The exterior has been painted. Commercial overhead doors have been replaced. Limited interior painted has been completed. The roof has been replaced. A sewer line, and connection thereto, is completed and the existing septic system removed.

**Impact Of Denial/Postponement:** Life safety concerns and the possible loss of use of the facility if upgrades not incorporated and the facility continues to deteriorate.

**Project Cost Estimates:** FY2015 \$0

Basis for cost estimates: DPW Engineering In-house estimate

**Project Estimated Completion Date:** Fall, 2017

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$166,920	Office Renovation Plan
	\$ 55,848	Project Management, Escalation, Contingency
2017	\$ 48,880	Parking lot expansion/pavement, site improvements
	\$ 13,520	Project Management, Escalation, Contingency

Source of Funding: General Fund

**Operating Budget Impact:** Project would improve building energy and efficiency and staff functions.





**Marine Environmental Affairs Building** 

PROJECT: CS -15-14 MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT PRIORITY: 14 of 17

Project Working Title: MARINE & ENVIRONMENTAL AFFAIRS (MEA) BUILDING ADDITION

**Project Location:** 1189 Phinney's Lane, Centerville

**Project Description:** The project consists of a 2,500 square foot storage addition to the existing Marine Environmental Affairs building.

**Project Justification:** The Marine and Environmental Affairs building currently is insufficient in size to accommodate existing staff and equipment. Because of various reorganizations and repositioning of staffing over the years, MEA has had to create office space in the garage area which further limits the ability to have a sufficient working area and space for the storage of vehicles and boats. This project will provide the needed additional space that will allow for the garaging of more of the division's vehicles and boats, protecting them from the elements; and allow for covered and protected maintenance on them. The office building should then be used for the growing office functions, therein, separating vehicle and boat storage areas from the office functions.

**Impact Of Denial/Postponement:** The Town's boats and other equipment will continue to deteriorate at an undesirable rate and, as such, their useful life shortened.

**Project Cost Estimates:** FY 2015 Design: \$113,935

FY 2016 Construction: \$679,593

**Basis for Cost Estimates:** DPW Engineering In-house estimate

Project Estimated Completion Date: Fall, 2016

# **Project Cost/Description FY 2015 and Follow-On Years:**

FY Cost Project Description/Components
2015 \$113,935 Design

2016 \$679,593 Construction

**Source of Funding:** General Fund

**Operating Budget Impact:** New facility will protect equipment and add to its longevity by putting it under cover. Increased utilities costs \$1,000 per year.





**Boat and Equipment Storage** 

PROJECT: CS -15-15 MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT PRIORITY: 15 of 17

Project Working Title: BISMORE PARK PHASE II – SITE IMPROVEMENTS

**Project Location:** Ocean Street, Hyannis

**Project Description:** The Town of Barnstable has constructed a new clean, attractive and safe comfort station and Dockmaster's Office and Visitor Center in FY2009. This site work, needed to complete the park renovation project includes new brick pavements, site lighting, landscaping, irrigation, security, and banners.

**Project Justification:** In order to make the park user friendly, the walk along the bulkhead should be improved with visitor friendly site elements including wider pavements for visitors and fishing vehicles benches, lighting, signage, bus stop and improved parking lots.

**Impact of Denial/Postponement:** The site is over stressed with its combined use of commercial operations and visitor traffic. The parking/walk/drive system needs to be designed to accommodate mixed uses in a safe and manageable design organization. The artist shanties need to be relocated closer to Aselton Park on the north edge of the harbor in order to open up the site vista of the harbor itself.

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: DPW Engineering estimates

**Project Estimated Completion Date:** FY 2017

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$ 75,000	Design
2017	\$643,000	Construction

Source of Funding: General Fund - Potential use of Town of Barnstable Coastal Access Plan funds; potential

grants.

Operating Budget Impact: None identified at this time





**Bismore Park Marina** 

PROJECT: CS -15-16 RECREATION DEPARTMENT PRIORITY: 16 of 17

Project Working Title: McKEON PARK WATER AND SEWER SERVICE

**Project Location:** 120 High School Rd, Hyannis

**Project Description:** Design, and construction of water and sewer services for the McKeon Park concession stand. Note this request does not include the costs for Water System Development Charges, or any internal building modifications. It is assumed the end users will pay those fees.

**Project Justification:** The existing concession stand does not have potable water, or sanitary services. Recent rulings from the Town of Barnstable Board of Health have indicated that that Board will not allow the stand to continue to operate without potable water service.

**Impact Of Denial/Postponement:** Per the Health Department, without these improvements the concession stand will not be allowed to operate this coming season.

**Project Cost Estimates:** FY 2015: Design: \$0 Construction: \$55,000

**Basis for cost estimates:** DPW internal estimate.

**Project Estimated Completion Date:** October 2014

**Project Cost/Description FY 2014 and Follow-On Years:** 

FY Cost Project Description/Components

2015 \$55,000 Construction

Source of Funding: General Fund

**Operating Budget Impact:** The new services will require regular payments to the Water, and Water Pollution Control Divisions in the form of fees for usage, etc. These fees will presumably come from Recreation Program budgets that will need to be increased.





**McKeon Park** 

PROJECT: CS -15-17 RECREATION DEPARTMENT PRIORITY: 17of 17

Project Working Title: ADA COMPLIANT RESTROOMS - HYANNIS GOLF COURSE

**Project Location:** 1800 Iyanough Rd., Rte. 132 Hyannis, MA

**Project Description:** Reconstruction/renovation of existing public restrooms and adjacent building space located on the main level to accommodate upgrades necessary to meet ADA compliance for handicapped accessibility and use. The clubhouse building at Hyannis Golf Course was built in the 1970's and the size and layout of the existing restrooms are too small to accommodate ADA requirements resulting in the need to expand the construction of restrooms into existing building space. Items to be addressed are: doorways are too narrow, interior walls obstruct access, none of the stalls are accessible, none of the sinks are accessible, no grab bars are available and there is no 5' turnaround area for wheelchairs. These items were identified by the Disability Commission during an accessibility survey conducted in 2011.

**Project Justification:** The Barnstable Disability Commission has requested this work be done since October 2011. We have had complaints from handicapped patrons and lost out on numerous events for the function room due to lack of handicapped access to the existing restrooms. The facilities do not meet the ADA requirements as both men's and ladies' rooms are completely inaccessible for handicap access. There is a sense of urgency to complete the needed upgrades.

**Impact Of Denial/Postponement:** The facilities will continue to fail to meet the requirements set forth by the Americans with Disability Act. The main level restrooms will continue to be completely inaccessible to handicapped persons. We will continue to lose out on functions and facility activities which will lead to decreased revenues. We continue to risk having someone be injured while trying to access the current restrooms.

**Project Cost Estimates:** FY2015 Design \$8,000 Construction \$76,750

**Project Estimated Completion Date: 2014** 

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$84,750 Construction of restrooms

Source of Funding: General Fund

**Supplemental Information:** The function room at Hyannis GC is used daily to host numerous local business meetings such as Rotary and BNI groups. The function room is used year round for parties, wedding receptions, class reunions and seminars. It is a very busy facility and those attending these events expect that this Town owned building be ADA compliant. Citizens of the Town of Barnstable use the function room facility on a daily basis.

**Operating Budget Impact:** Minimal

## **GROWTH MANAGEMENT**

PROJECT: GM -15-1 ECONOMIC DEVELOPMENT DEPARTMENT PRIORITY: 1 of 2

Project Working Title: WALKWAY-TO-THE SEA HYARTS SHANTIES

Project Location: Village green at corner of Ocean and South Street, Hyannis along upper walkway –

plan and photo attached.

**Project Description**: Installation of five 10 X 12 customized pre-fabricated wooden sheds for HyArts Cultural District programming. The Walkway shanties will be a year round installation along the Walkway-to-the-Sea. Installation includes site preparation; reinforced concrete slab installation; shanty placement; wiring for security lighting, interior use and a ground level outlet to power performance equipment; and final site restoration.

**Project Justification:** The HyArts shanty program at Bismore Park is a resounding success both economically and culturally. Expansion of the program along the Walkway-to-the Sea will provide: an additional attraction to draw visitors from Main Street to the Harbor; affordable incubator space for local artists; an additional revenue stream for HyArts programming; and, through installation and site design, increased visibility and use within this public space.

Work Previously Accomplished: Seven shanties at Bismore have been installed and programmed since 2005.

**Impact of Denial/Postponement:** Deferred funding will delay the programming of this public space and the economic benefit of this creative economy stimulus project, a fundamental GMD Economic Development program. The project benefits from enlivening this portion of the Village Green would also be lost for another summer season.

**Project Cost Estimates:** FY 2015 Design \$2,350 Construction \$92,101

Basis for cost estimates: Consultation with construction and design professionals

**Project Estimated Completion Date:** October 2014

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$116,546 Construction/placement of five 10 X 12 sheds along walkway-to-the-

sea Sheds, electrical, site work, landscape improvements.

**Source of Funding:** General Fund

# **Operating Budget Impact:**

Revenue: First Year (FY 2015) \$7,000 Subsequent Years (Average Annual) \$10,000

Expenses: No additional staff costs to program
Annual building permits for sheds \$ 175
Annual plantings \$2,000
Anticipated maintenance years 1-5 \$2,500/year
Emergency repair fund \$2,500/year

Money for emergency repair fund will be funded through revenue received from program participants. All additional revenue will be used for marketing and entertainment for the program.

# **Supplemental Information:** Hyannis HyArts Artist Shanties &

Walkway-to-the-Sea

	Quantity	<u>Unit</u>	<u>Amount</u>
12X10 Buildings	5	\$6,790	\$ 33,950
Cement Pads	5	\$1,200	\$ 6,000
Electrical Service			\$ 2,576
Electrical Wiring Interior/Exterior	5	\$ 975	\$ 4,875
Preliminary Site Work			\$ 2,350
Site Work-Hardscape			\$ 10,200
Irrigation System Modifications			\$ 7,000
Construction, Observation & Field Engineering			\$ 5,000
Site Work-Landscape Medications / Materials			\$ 22,500
Site Furnishings			\$ 11,500
Sub Total			\$105,951
10% Contingency			\$ 10,595
Total			\$116,546





Proposed Location (corner Ocean & South Streets)





**Shanty Options** 

PROJECT: GM -15-2 ECONOMIC DEVELOPMENT DEPARTMENT PRIORITY: 2 of 2

Project Working Title: BICYCLE ACCOMMODATIONS PROGRAM

**Project Location:** Under the first year of the program, the Barnstable South Coast Bike Route will

connect 5 villages along the following sections of roads:

Sea Street (South Street to Ocean Avenue) (Hyannis)

Ocean Avenue to Hyannis Avenue Hyannis Avenue to Washington Avenue Washington Avenue to Wachusett Avenue Wachusett Avenue to Scudder Avenue

Scudder Avenue to Craigville Beach Road (Centerville)

Craigville Beach Road to South Main Street South Main Street to Main Street (Osterville)

Main Street to South County Road

South County Road to Main Street (Marstons Mills)

Main Street to Meeting House Way

Meeting House Way to Prince Avenue (Cotuit)

Prince Avenue to Old Post Road Old Post Road to Putnam Avenue Putnam Avenue to Main Street Main Street to Oregon Beach

**Project Description:** Under the first year of this program "share the Road" signs and pavement markings will be designed and installed along the "South Coast Bike Route" listed above. The more heavily used roadways from Hyannis to Marstons Mills will have pavement markings in addition to signs. Only the signs will be installed on some of the less heavily traveled roads in Cotuit. There will be two categories of signs along the route. Traffic signs with a bike symbol and a "share the road" plaque to alert automobiles. And route directional signs to guide the bicyclists on directions and distances to destinations along the route. In addition, bike racks will be installed at village centers and other points of interest along the route.

**Project Justification:** There is an increasing desire in the community for safer bicycle accommodations. Studies indicate that riders would use their bikes more frequently if roads were made safer for them. People ride bikes as a form of transportation that provides an opportunity to exercise while at the same time reducing trips in the automobile. Improvements to bicycle infrastructure results in increased safety, increased bicyclists use of facilities, and less automobile traffic. With the buses and the new train from Boston that bring tourists

to Hyannis, it is important that they can utilize alternative means of transportation such as bikes to visit other villages, beaches, and tourist attractions.

**Work Previously Accomplished:** A plan of priority bike routes has been developed for the Town based upon meetings and workshops with the biking community and an analysis of the existing infrastructure. This route was the number one priority to improve. A conceptual working plan for the south coast route has been developed by staff to develop the project scope and cost estimate.

**Impact Of Denial/Postponement:** Cyclists will continue to be deterred from using this route due to lack of accommodations. This route is an important one for residents and tourists alike as it extends across the town connecting villages and providing access to numerous beaches and tourist destinations.

Project Cost Estimates: FY 2015 Design \$20,000 Construction \$150,000

**Basis for cost estimates:** Costs are based on information from past bid experience supplemented with information from consultants, contractors, and cities regarding items such as the sharrow pavement markings that are new items for the Town.

**Project Estimated Completion Date:** Spring 2015

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$170,000	South Coast Bicycle Route Accommodations

Source of Funding: General Fund

**Operating Budget Impact:** Minimal operating cost during the first 5 years. After 5<sup>th</sup> year, the markings will need to be repainted by a contractor. Pavement markings will need to be repainted in 2020.

## **Supplemental Information:**

Miles         Feet           # Sharrows @250 ft spacing (Epoxy Paint) layout, painting, and traffic control         15         80,000         650         EACH         \$ 110         \$ 71,500           Signs         40         EACH         \$ 200         \$ 8,000           Remove painted fog line         40,000         LF         \$ 0.20         \$ 8,000           Repaint fog line (water based paint)         40,000         LF         \$ 0.04         \$ 1,600           Bike Racks         20         EACH         \$ 1,000         \$ 20,000           Police Details         LS         \$15,000         \$ 15,000           Design         LS         \$ 20,000         \$ 20,000           Construction Administration         LS         \$ 10,000         \$ 10,000           Sub-Total         \$ 15,410         \$ 15,410	Cost estimates as follows:					<u>Unit</u>	
# Sharrows @250 ft spacing (Epoxy Paint) layout, painting, and traffic control 15 80,000 650 EACH \$ 110 \$ 71,500 Signs 40 EACH \$ 200 \$ 8,000 Remove painted fog line 40,000 LF \$ 0.20 \$ 8,000 Repaint fog line (water based paint) 40,000 LF \$ 0.04 \$ 1,600 Bike Racks 20 EACH \$ 1,000 \$ 20,000 Police Details LS \$15,000 \$ 15,000 Design LS \$20,000 \$ 20,000 Construction Administration LS \$10,000 \$ 10,000 Sub-Total 10% contingency \$ 15,4100	<u>Item Description</u>	<u>Distan</u>	<u>ce</u>	<b>Quantity</b>	<u>Unit</u>	<u>Cost</u>	<u>Amount</u>
Paint) layout, painting, and traffic         control       15       80,000       650       EACH       \$ 110       \$ 71,500         Signs       40       EACH       \$ 200       \$ 8,000         Remove painted fog line       40,000       LF       \$ 0.20       \$ 8,000         Repaint fog line (water based paint)       40,000       LF       \$ 0.04       \$ 1,600         Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$ 15,410       \$ 15,410		Miles	Feet				
control       15       80,000       650       EACH       \$ 110       \$ 71,500         Signs       40       EACH       \$ 200       \$ 8,000         Remove painted fog line       40,000       LF       \$ 0.20       \$ 8,000         Repaint fog line (water based paint)       40,000       LF       \$ 0.04       \$ 1,600         Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$ 15,410       \$ 15,410	# Sharrows @250 ft spacing (Epoxy						
Signs       40       EACH       \$ 200       \$ 8,000         Remove painted fog line       40,000       LF       \$ 0.20       \$ 8,000         Repaint fog line (water based paint)       40,000       LF       \$ 0.04       \$ 1,600         Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$ 15,410       \$ 15,410         10% contingency       \$ 15,410	Paint) layout, painting, and traffic						
Remove painted fog line       40,000       LF       \$ 0.20       \$ 8,000         Repaint fog line (water based paint)       40,000       LF       \$ 0.04       \$ 1,600         Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$ 15,410       \$ 15,410         10% contingency       \$ 15,410	control	15	80,000	650	EACH	\$ 110	\$ 71,500
Repaint fog line (water based paint)       40,000       LF       \$ 0.04       \$ 1,600         Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$154,100         10% contingency       \$ 15,410	Signs			40	EACH	\$ 200	\$ 8,000
Bike Racks       20       EACH       \$ 1,000       \$ 20,000         Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$154,100         10% contingency       \$ 15,410	Remove painted fog line			40,000	LF	\$ 0.20	\$ 8,000
Police Details       LS       \$15,000       \$ 15,000         Design       LS       \$20,000       \$ 20,000         Construction Administration       LS       \$10,000       \$ 10,000         Sub-Total       \$154,100         10% contingency       \$ 15,410	Repaint fog line (water based paint)			40,000	LF	\$ 0.04	\$ 1,600
Design         LS         \$20,000         \$ 20,000           Construction Administration         LS         \$10,000         \$ 10,000           Sub-Total         \$154,100           10% contingency         \$ 15,410	Bike Racks			20	EACH	\$ 1,000	\$ 20,000
Construction Administration         LS         \$10,000         \$ 10,000           Sub-Total         \$154,100           10% contingency         \$ 15,410	Police Details				LS	\$15,000	\$ 15,000
Sub-Total       \$154,100         10% contingency       \$ 15,410	Design				LS	\$20,000	\$ 20,000
10% contingency \$ 15,410	Construction Administration				LS	\$10,000	\$ 10,000
<u> </u>	Sub-Total						\$154,100
Total Daymand IIIa	10% contingency						\$ 15,410
rotal Rounded Op <u>\$170,000</u>	Total Rounded Up						\$170,000







**Solution: Share the road markings** 

## **POLICE**

PROJECT: PO -15-1 ADMINISTRATIVE SERVICES DEPARTMENT PRIORITY: 1 of 1

Project Working Title: POLICE HEADQUARTERS
Project Location: 1200 Phinney's Lane, Hyannis

**Project Description:** The Police Department facility was constructed over 30 years ago. The original building equipment and systems are coming to the end of their useful life and need upgrading. Many parts of the existing building are in need of replacement and renovation. Most of Priority 1 deals with necessary security issues. This CIP would fund:

• Priority 1:

Replacement of outside entry doors at rear of building

A new secure exit way for discharge from the Booking Area without passing through Dispatch

New prisoner intake counter; painting of area

Replace carpeting in Administrative offices and other spaces on 2<sup>nd</sup> floor

Lobby interior renovation including front entry system with automatic doors; windows

Priority 2:

Replacement of all overhead doors & mechanicals

Refurbishing of elevator

Installation of a new garage air compressor

Installation of a water filter for the buildings water supply

Replacement of chiller & unit vent

**Project Justification:** The Police Department Facility is one of the most heavily used buildings we have in Town. Utilized 24/7, this building needs more attention and maintenance and repairs than any of our other facilities. To keep this building from degrading in function or operation in the near future, these necessary improvements and changes need to occur. This building will need to service Barnstable for a very long time into the future. We need to make sure it can still operate effectively & efficiently.

**Work Previously Accomplished:** Design completed for the Dispatch HVAC and lighting upgrade, sound and lighting upgrades to cell block. Building being tied into new sewer system.

**Impact Of Denial/Postponement:** Priority 1 deals with security issues and Department of Health violations and need immediate correction in order to comply with regulations.

**Project Cost Estimates:** FY 2015 Design \$ 51,965 Construction \$ 236,203

Future FY2016 Design \$ 30,000 Construction \$ 190,000

Basis for cost estimates: DPW Engineering estimates

Project Estimated Completion Date: Fall, 2015

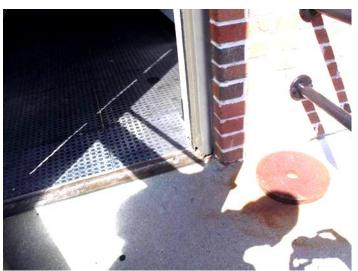
#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$288,168	Priority 1 items
2016	\$220,000	Priority 2 items

Source of Funding: General Fund

**Operating Budget Impact:** The majority of the work consists of functional efficiency improvements involving safety concerns and renovation upgrades replacing worn out finishes. Door and window replacements will improve energy conservation and reduce operating costs (TBD)





## **PUBLIC WORKS**

PROJECT: PW -15-1 HIGHWAY DEPARTMENT PRIORITY: 1 of 20

Project Working Title: PUBLIC ROADS MAINTENANCE

**Project Location:** Engineering design and permitting services for the road rehabilitation of the entire length of Huckins Neck Road in Centerville. Drainage improvements and resurfacing of Crockers Neck Road and Old Post Road in Cotuit, Old Town Road, Gleason Street, and Park Street in Hyannis, Lumbert Mill Road, a portion of Route 149 and River Road in Marstons Mills. Preventive maintenance chipseal of various roads town-wide to extend their service life. Preventive maintenance crackseal of various roads town-wide to extend their service life. Design services for various construction quality control measures, roadwork inspection and material testing. Construction and repair of multiple drainage sites town-wide in problem areas identified during the course of the year.

**Project Description:** This is a continuing, essential, program aimed at combating the progressive deterioration of the Town's roadway assets and provision of new storm water handling capacity. Depending on physical conditions and analysis using the Town's Pavement Management Program, the repairs may include one of several different approaches including: full depth reconstruction, asphalt overlay, milling and paving, applying a chipseal surface layer or cracksealing. In addition to surface repairs, improvement projects typically include installation or upgrading of drainage systems, curbing, and sidewalks wherever practicable.

**Project Justification:** The condition of the Town's road system is deteriorating each year. Adequate maintenance and reconstruction, where necessary, is essential to preserve this major capital asset. Through the use of the Pavement Management Program, we have identified a backlog of over \$28,224,500 of needed road related repairs. This equates to over 100 miles of Town roads in need of more than routine maintenance or repair. In addition, the Town has a backlog of approximately 245 locations where drainage improvements are required to protect public safety and prevent potential property damage.

**Impact of Denial/Postponement:** The impact of denial or postponement will be accelerated deterioration of our public roadway network resulting in public safety hazards and liability, potential damage to private property and increased repair costs.

Project Cost Estimates: FY 2015 Design: \$250,000 Construction: \$3,000,000

Basis for cost estimates: Costs were calculated based on the level of labor, equipment and materials expected to be required to complete the construction work. Quantities for individual items were calculated based on actual field counts, measurements and observations. Historical cost data and the most current unit rates available were applied for each item and/or activity to determine estimated costs. The Town's Pavement Management Plan was utilized to establish a list of the roads in most need of repairs and help prioritize the planned work. Input was also provided by Highway Department personnel to assist in identification of problematic roadway conditions and recent repair history.

**Project Estimated Completion Date:** June 2015

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$3,250,000	Design & Construction
2016	\$3,250,000	Design & Construction
2017	\$3,250,000	Design & Construction
2018	\$3,250,000	Design & Construction
2019	\$3,250,000	Design & Construction

Source of Funding: General Fund

**Operating Budget Impact:** This reconstruction and maintenance will occur on existing roads that are already maintained by the DPW. Appropriate levels of roadway reconstruction and surface treatments will reduce the maintenance costs.

**Supplemental Information:** The Road Repair program continues to utilize funding for the combination of road and drainage repairs. This request for funding is one consolidated request as described, with the exception of roads being considered for reconstruction or rehabilitation with the use of Chapter 90 funds and Highway Division maintenance funds. Limited design, inspection and construction of drainage site improvements will continue to be completed by in-house personnel. Drainage costs include contingency funds for emergency situations and police details.





River Road - Deteriorated Road Surface

Old Post Road - Shape & Surface Issues

PROJECT: PW -15-2 HIGHWAY DEPARTMENT PRIORITY: 2 of 20

**Project Working Title:** WEST BAY BRIDGE REPAIRS **Project Location:** Bridge Street, Osterville, MA

**Project Description:** The phased project consists of repair of items identified in reports completed by the Town's consultants Fay Spofford & Thorndike and more recently by STV Consultants. A contract has been let to complete the short term electrical and mechanical repairs and this contract is 85% completed. Final testing and inspection of work will be completed this fall. This year's project request is to continue with needed structural and architectural repairs as identified in the consultant's report analysis. These repairs include bridge deck, approach slabs, expansion joint replacement, stringer member replacement, safety walk stairs and operator's cab modifications to include a bathroom facility.

**Project Justification:** The aging bridge (circa 1947) has been the subject of an extensive study to determine limits of a repair program and associated costs to keep the bridge in operation. The ongoing repairs are needed to comply with operator safety regulations. For example, in the replacement of access stairs used to perform necessary routine maintenance, these stairs are presently severely compromised with rust and corrosion. The operator's cab needs replacement and bathroom facilities need to be provided. The bridge weight limits have been reduced because of deficient structural components. These components need replacement. The sidewalk and roadway joints need replacement and repair. The steel components of the bridge need cleaning and painting to preserve the structure and realize the full value of the repairs.

**Work Previously Accomplished:** The short term electrical and mechanical repair contract is 85% complete. Design is ongoing for the structural and architectural repairs and is at a 50% level. Designs will be completed early in 2014 to enable construction to begin in spring of 2014.

**Impact Of Denial/Postponement:** The ongoing incremental repair and improvement program would be interrupted; bridge functionality would continue to be reduced, increasing manpower and material costs associated with maintenance; access through the waterway would be affected, safety of operators and personnel would continue to be jeopardized; and eventual reduction of the posted weight limits would be necessary, limiting access by emergency vehicles.

**Project Cost Estimates:** FY 2015 Design \$0 Construction \$0

Basis for cost estimates: Consultant Estimate, DPW Engineering Review

**Project Estimated Completion Date:** FY 2017

# Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	Construction and Project Management –Short Term Struct./Arc
2016	\$ 100,000	Design -Long Term Structural/Architectural
2017	\$1,743,710	Construction and Project Management – Long Term Struct./Arch.

Source of Funding: General Fund

**Operating Budget Impact:** The bridge is owned by the Town and maintained by the DPW. Foreseeable changes will not significantly add to the maintenance burden.



**West Bay Bridge** 





**DEPARTMENT PRIORITY: 3 of 20** 

Example: Structural-Deficient Joint Example: Architectural-Deficient Stairs

PROJECT: PW -15-3 STRUCTURES & GROUNDS

**Project Working Title: TOWN HALL INTERIOR IMPROVEMENTS** 

**Project Location:** 367 Main Street, Hyannis, MA

**Project Description:** This project continues the interior work needed to maintain the existing building. The exterior restoration work has been completed via CPA funds which now allow for the interior renovation work to begin. Many of the planned improvements relate to public health, safety and code issues needing immediate attention. These improvements will increase the value and effectiveness of this highly utilized and busy facility. Recommendations from the building study by the historic architect are contained with the scope of renovations needed. Preliminary space programming changes are under design and will be coordinated with the space occupants. Due to the magnitude of the scope of work for renovations and possible reconfigurations, it is proposed to effect this work under a multi-phased program. This will allow the Town Hall to function while in the renovation process.

<u>Phase IA:</u> Involves architectural and engineering design, and cost estimating services for the interior renovation of the lower and first floors of the building.

Phase 1B: Involves contract documents and renovation work for the phase IA design

Install new ceiling mounted unit ventilators as needed

Continue to add branch piping from new modulation hot water boilers

Replace cast iron radiators with hot water fin tube radiation and control valves

Install direct digital control system

Insulate all piping throughout; remove mold and mildew

Install new hot water indoor air handlers for ventilation

Install energy efficient room lighting and power distribution

Install new interior floor, wall and ceiling finishes throughout

Renovate sprinkler system to suit revised floor plan

**Project Justification:** The Town Hall is the public image of the Town. The building needs continual upgrades and improvements. The public areas in Town Hall are a poor impression of the Town of Barnstable, with chipped paint, peeling wallpaper and significant water damaged exterior walls. Additional restrooms on each floor are needed. All existing restrooms need renovation and ADA related improvements. The HVAC, plumbing, electrical and related systems and devices are at the end of their useful life and need full replacement. The fire alarm system does not meet present day code standards. Air quality concerns exist with

mold within walls and ceilings due to a poor HVAC system and many years of moisture leaking thru the walls from the exterior. All exterior plaster and drywall surfaces are in need of full replacement. Any plan changes will require basic changes to all building systems. Spreading out this project over several years will only increase the total cost of the project and subject the occupants and residents to years of construction and incontinence.

Work Previously Accomplished: Completed work underway includes the installation of circulator pumps for the chilled water system and limited elevator repairs. CPA funds were used to renovate the courtyard vestibule and for major exterior restoration of masonry, and for window and slate roof replacement. The existing old boiler has been removed from the basement leaving space for the installation of three new modulating boilers and the eventual change over to a new forced hot water system. The new boilers are scheduled to be installed during the winter of 2014. The Town Clerk's Offices have been fully renovated at this time. Stairwell renovation work is currently underway thru FY13 and FY14 CIP funding. This work includes architectural, mechanical, electrical, sprinkler, fire safety, space enclosure with new rated doors and hold open devices, related finishes and improvements which will bring the public stair into code compliance and repair the water damage.

**Impact of Denial/Postponement:** Mechanical systems will continue to degrade and require increased maintenance and operating costs. The Fire alarm system will continue to degrade and may result in a system that does not function properly thus compromising life safety. The offices are greatly in need of renovation, will continue to be cramped and ineffective work spaces. The public areas of the building will still be in deplorable condition, leaving a poor impression of Town Government. With the waterproofing of the exterior, interior walls need major repairs to correct the damage that has occurred by water penetration over many years.

**Project Cost Estimates:** FY 2015 - \$0

Basis for Cost Estimates: In-house and Architect's estimate and studies

**Project Estimated Completion Date:** FY16 Phase 1A design

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$184,825	Phase 1A - Design, First Floor and Lower Level Renovations, Public Corridors, security improvements + interior repairs + renovation.
2017	\$739,300	Phase 1B - Construction First Floor and Lower Level Renovations, Public Corridors, security
2018	\$855,300	Phase II Design + Renovations
2019	\$855,300	Phase III Design + Renovations
2020	\$391,500	Phase IV Design + Renovations

**Source of Funding:** General Fund and Possible CPA funds if projects qualify for consideration and CDBG for ADA restroom improvements.

**Operating Budget Impact:** The facility is an existing Town facility that is currently maintained by the DPW. Improvements/upgrades are expected to result in improvement in energy usage with new lighting and HVAC, and are not expected to adversely impact the Operating Budget.

# **Examples of Town Hall Interior Conditions**







PROJECT: PW -15-4 STRUCTURES & GROUNDS

**DEPARTMENT PRIORITY: 4 of 20** 

Project Working Title: RISK ASSESSMENT AND SECURITY EVALUATION FOR TOWN HALL, SCHOOL

**ADMINISTRATION BUILDING, 200 MAIN STREET** 

**Project Location:** Town Buildings Hyannis

**Project Description:** A comprehensive risk assessment and security evaluation for the primary Town buildings. The recommendations developed in this evaluation will allow the Town to select the best measures to protect its employees and facilities.

**Project Justification:** The Town is facing the difficult balance that many public agencies face: how to be open and accessible to citizens while at the same time being protective of employees. The Town has to balance desired convenience versus security. Potential risks include, but are not limited to:

- Upset, angry or disruptive citizens who may pose a threat of physical violence to employees interfacing with the public
- Violence, theft or sabotage from disgruntled citizens, or employees and contractors
- Domestic violence from estranged spouses or significant others that spill into the workplace
- Terrorism (domestic or international)
- Disasters natural and man made

Determining which of these risks are the most pressing; how best to protect against them; and making recommendations to policies, procedures, and facilities will be the task of the evaluation.

**Impact Of Denial/Postponement:** The Town will still face the same risks, but without thoughtful proactive measures in place to mitigate those risks, is vulnerable to a potentially horrible, preventable, outcome.

Project Cost Estimates: FY 2015: \$100,000

Basis for cost estimates: In house Engineers

**Project Estimated Completion Date:** August 2015

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components

2015 \$100,000 Security Evaluation

Source of Funding: General Fund

**Operating Budget Impact:** This will not be clear until the study is complete, and recommendations have been selected by the Town for implementation.

# PROJECT: PW -15-5 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 5 of 20

Project Working Title: School Administration Building Mechanical System Improvements

**Project Location:** 230 South Street, Hyannis, MA

**Project Description:** School Administration Building Mechanical Improvements as follows:

#### Phase I:

- Mechanical head-end upgrades at Lower Level
- Emergency generator, cooling plant, sprinkler and hot water system equipment replacement
- Renovation and expansion of the existing basement mechanical room and egress paths to accommodate a replacement emergency generator (reuse of the BPD old generator) and replacement of the 30 ton cooling plant including the head-end upgrade of the sprinkler service
- Removal of the old concrete mounting pad
- Replacement of the existing electric hot water heater with a new gas fired hot water heater and thermostatic mixing valve

- Relocation of the gas service from the electric room into the mechanical room (another code violation)
- Installation of new fire rated walls and ceilings throughout the basement level, including rated door improvements along the access ways, and improvements to the exit (relocate fire escape) at the south stairway as required by code. This is a public safety issue needing attention.

# Phase II – Interior Renovations to Building:

- Limited interior reorganization of space (HR), finishes, ADA access, rest rooms. Work reflective of the historic architect's programming and schematic design subject to approval may increase the actual cost for this work
- Mechanical/electrical upper floor distribution, replacement, and energy conservation improvements throughout including new electrical service, HVAC controls, communications, fire alarm, sprinkler, plumbing and related HVAC improvements, and new elevator.

**Project Justification:** The historic building study reported significant deficiencies in this building. The exterior restoration work is completed utilizing part CIP and CPA funds. The Phase I work was not accomplished during the exterior restoration project.

**Work Previously Accomplished**: Additional funding from CPC for the exterior restoration work was added into the project and is complete. The existing heating plant has been replaced with 3 high efficiency modulating boilers. In FY09, CPA Funds were secured for the engineering assessment. PW-10-110 provided funding of \$144,000 for the low roof repairs and replacement work. CPC funds of \$1,342,000 were appropriated for use on the exterior restoration of the SAB.

**Impact of Denial/Postponement:** The building condition study indicates the need for significant head-end mechanical and accessibility improvements. These would be best addressed along with the exterior restoration project. If left as is, further deterioration will occur with increased scope of repairs resulting in additional inflation and restoration cost.

Project Cost Estimates: FY2015 Design & Soft Costs: \$334,220 Construction: \$0

Basis for Cost Estimates: DPW in-house estimate and Architect input

**Project Estimated Completion Date:** Winter, 2016

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<b>Project Description/Components</b>
2015	\$ 334,220	Phase I: design
2016	\$1,348,881	Phase I: renovations
2017	\$1,405,976	Phase II: design and renovations

**Source of Funding:** General Fund and possible CPA Funds

Operating Budget Impact: Improved energy efficiency for lighting and HVAC

**Supplemental Information:** The historic architect's study of the SAB is complete and the costs above are reflective of their recommendations. The study is available for review.

Project Working Title: GUARDRAIL REPLACEMENT AND SIDEWALK OVERLAYS

**Project Location:** Town Wide

**Project Description:** Remove and replace 5,000 feet of old deteriorated cement posts and steel cable rails; and removal of old broken asphalt and vegetation from existing sidewalk and install a 1.5" layer of new top coat asphalt. These projects, and this request, are expected to be annual, ongoing requests. Specific locations to be addressed include:

## Guardrail

Commerce Road, Barnstable
River Road, Marstons Mills
Putnam Ave, Cotuit
Service Road, Centerville/West Barnstable
Sidewalks
Prince Hinckley Road, Centerville
Castlewood Road, Hyannis
Cherry Street, Hyannis
Old Colony Road, Hyannis

River Road, Marstons Mills

**Project Justification:** Guardrails are important safety features along the Town's roads. The existing cement post and wire rails have reached the end of their useful life and need to be replaced. In addition, many of the Town's sidewalks have also reached the end of their design lives and are starting to fail. Others have safety issues such as trip and fall hazards, and ADA handicapped issues that need to be addressed.

**Work Previously Accomplished:** 3,000 feet of guardrail has been replaced. Additional guardrail has been inspected and identified for replacement.

**Impact Of Denial/Postponement:** Failure to perform this replacement will jeopardize public safety and the existing guard rail sections will continue to deteriorate.

Project Cost Estimates: FY 2015 Construction \$285,000

**Basis for cost estimates:** DPW estimate based upon current County Bid pricing with a 10% /year escalation, and police detail costs

# Project Estimated Completion Date: June, 2015

Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	Cost	<b>Project Description/Components</b>
2015	\$285,000	Construction
2016	\$295,000	Construction
2017	\$305,000	Construction
2018	\$315,000	Construction
2019	\$325,000	Construction

Source of Funding: General Fund

**Operating Budget Impact:** This project will be replacing existing guardrail, and fixing existing sidewalks, both of which are already maintained by the DPW.







**Deteriorated Sidewalk** 

PROJECT: PW -15-7 ADMINISTRATION

**DEPARTMENT PRIORITY: 7 of 20** 

Project Working Title: CRAIGVILLE BEACH ROAD – SIDEWALK, DRAINAGE AND SANITARY SEWER

**IMPROVEMENTS** 

**Project Location:** Craigville Beach Road from Long Beach Road to Lake Elizabeth Drive

**Project Description:** Provision of a new sidewalk on the northerly side of the road, construction of a sanitary sewer collector line in anticipation of sewer expansion in the area. Rehabilitation of the roadway after construction to include drainage structures and milling and paving surface.

**Project Justification:** Craigville Beach is one of the most heavily utilized beaches in Town. There are multiple pedestrian crossings in the summer months from the beach parking lot to snack bars and residences on the north side of the road. In addition, pedestrians walk year round along the roadway. There are existing sidewalks to the east and west of the project limits. In addition to the sidewalk, it is felt that it would be wise and economically beneficial to add a collector sewer line along the roadway in anticipation of sewers being extended to the area.

**Impact Of Denial/Postponement:** Denial of the project will result in safety concerns being unresolved for pedestrians and an opportunity will be lost to gain fiscal advantage for construction of a sewer line.

Project Cost Estimates: FY 2016 Design: \$ 150,000 Construction: \$1,128,000

Basis for cost estimates: DPW Engineering Estimates

**Project Estimated Completion Date:** December, 2015

## Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u> <u>Cost</u> <u>Project Description/Components</u>

2015 \$0

2016 \$1,278,000 Design & Construction

**Source of Funding:** General Fund

**Operating Budget Impact:** Beginning in FY 2017, additional costs will be incurred by Highway Division for maintenance of the sidewalk. Snow removal has been estimated at \$2,750/year (assuming 6 events per year, handled by a contractor) and sidewalk sweeping at \$600/year. Total expenses per year \$3,350.



**Craigville Beach Road -Lack of Sidewalk** 

PROJECT: PW -15-9 HIGHWAY DEPARTMENT PRIORITY: 8 of 20

Project Working Title: HIGHWAY SUPPORT FACILITIES - REPLACEMENT/CONSOLIDATION

**Project Location:** 382 Falmouth Road, Hyannis, MA

**Project Description:** This is a continuation of a six phase project to correct serious deficiencies in working conditions within the Department of Public Works. Two phases have been completed. Phase I included a feasibility study and a portion of design and was approved in FY2006. It facilitated co-locating the DPW Administration and Technical Support Division with the Highway Division and the construction of an Emergency Response Center (ERC). In Phase II, the construction of the DPW administration and engineering offices was completed. Re-roof of the remaining old garage is complete, and design work is underway for the Phase III Highway Division offices and facilities. The remaining phases are summarized below.

<u>Phase III</u>: The construction, of the Highway Division managerial offices, employee lockers, showers, toilet rooms, and a general/fitness area within the old garage. This will provide badly needed office space, and allow for the removal of the remaining old temporary staff trailer facility, and increase additional needed parking in its place.

Phase IV: Involves only the design work of a new enclosed and insulated truck garage and shops, with drive-through capability, which will be used to park, store and perform daily maintenance on trucks and equipment. This new stand-alone building will solve air quality and air circulation problems by separating trucks and office functions. The new building will incorporate the design of taller doors, which allow for access by larger equipment, and would have a lean-to for plow storage. Sanding trucks must be kept protected, in a temperate environment, allowing for quick response to snow and ice emergencies.

<u>Phase V</u>: Involves the construction of the new enclosed and insulated truck garage as well as site improvements developed in Phase IV. This design work includes site master planning for the entire campus.

<u>Phase VI</u>: Involves the demolition of the existing salt shed and the design and construction of a new salt shed.

**Project Justification:** The employee locker rooms, showers, bathrooms, and day room are housed in a temporary trailer which is in very poor condition. In addition, until this phase is completed ,there is not enough room in the building to house all of the Admin/Technical staff and the Highway staff. As a result, portions of the Admin/Technical staff are housed in other facilities across town. The staff needs proper facilities in which to operate. With the renovation of the garage into offices, trucks are now in need of a new permanent indoor home. The construction of a new, larger consolidated truck garage in Phase V of this project is critical to our continued operation. Design work for this garage would be done during Phase IV. The existing parking lot has been reconfigured to serve the new DPW Administration and Highway ERC, as well as incorporating a gas service island and parking for staff and visitors to the facility. Phase V will deal with a new master site plan with the pavement that has been cut up and patched over a number of years and is in need of new bituminous pavement and new striping of parking spaces and roadway markings to direct traffic as both the public, staff and trucking share space on the lot.

**Work Previously Accomplished:** The Phase I ERC and Phase II DPW Administration and technical support offices have been completed. The re-roofing work over the Phase I, II, and III areas have been completed at this time.

**Impact Of Denial/Postponement:** The DPW feasibility study has shown that greater efficiency will be realized through consolidation of the Division offices at the Highway site. Once Phase III is completed, the remaining staff trailer will then be demolished. Decreased operational and utility costs will be realized by elimination of the last trailer with the renovation. Trucks continue to be stored outside and will negatively impact snow and ice operations, thus Phase III, IV and V would resolve this issue.

**Project Cost Estimates**: FY 2015 \$0

Basis for cost estimates: DPW In-house estimate

**Project Estimated Completion Date**: FY 2019

## **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$ 558,064	Phase III - Design & Construction
2017	\$ 743,400	Phase IV - Design - Highway Truck Garage
2018	\$4,496,250	Phase V - Construction - Highway Truck Garage
2019	\$ 500,000	Phase VI - Design & Construction of a Dome Salt Shed

Source of Funding: General Fund

**Operating Budget Impact now:** Phase III should have a negligible impact on the Operating Budget. Utility costs for the new spaces will be offset by elimination of the utilities on the existing, inefficient, temporary trailers that currently house employees.



# **Temporary Staff Facility**

PROJECT: PW -15-10 HIGHWAY DEPARTMENT PRIORITY: 9 of 20

Project Working Title: DPW ADMINISTRATION/HIGHWAY PARKING LOT IMPROVEMENT

**Project Location:** 382 Falmouth Road, Hyannis, MA

**Project Description:** The existing parking lot has been reconfigured to serve as parking for staff and visitors to the DPW Administration and Highway building, as well as incorporating the gas service island. The pavement has been repeatedly cut up and patched over a number of years and is in need of comprehensive repair. This project will include a top surface coat of bituminous pavement; new striping of parking spaces; and roadway markings to direct traffic around the service island as both the public, staff, and trucking share space in the lot.

**Project Justification:** Given the condition of the existing parking lot, and with the mixing of the public, staff and trucking, the lot is in need of repair and striping to define the parking and roadway from a safety point of view.

**Impact of Denial/Postponement:** The entry approach should be designed to channel traffic into and out of the site in a defined and safe manner. The lack of curb definition at the entry creates a confusing area for traffic to move. Lack of a defined traffic pattern in the lot creates an unsafe zone in which people and vehicles move.

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: DPW in-house estimate

**Project Estimated Completion Date:** FY 2017

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<b>Project Description/Components</b>
2015	\$0	
2016	\$26,043	Design
2017	\$93,010	Construction

Source of Funding: General Fund

**Operating Budget Impact:** The rehabilitation work is on an existing facility which is already maintained by the DPW. It is not expected to create an additional burden on the Operating Budgets.



# **Parking Lot Adjacent to Staff Office**

PROJECT: PW -12 HIGHWAY DEPARTMENT PRIORITY: 10 of 20

**Project Working Title: TOWN HALL COMPLEX SITE IMPROVEMENTS** 

Project Location: Town Hall Parking Areas and Town Green, Main Street, Hyannis, MA

**Project Description:** The project will fund: paving, curb, landscape, lighting work to resolve site and traffic conflicts at the Town Hall parking area.

**Project Justification:** Town Hall Complex is a key access point for town and school offices, art and museum activities, and Main Street commerce. The proposed project would correct deficiencies in the current automobile traffic pattern and provide safe pedestrian access to associated connection points. Current vehicular and pedestrian traffic is dangerous and inconvenient within the area. Additional barrier free parking spaces will be created as part of this project.

**Impact Of Denial/Postponement:** Denial of this project will result in continued problems with pedestrian and vehicular traffic in this location.

**Project Cost Estimates:** FY 2015 \$0

Basis for Cost Estimates: DPW in-house estimate

**Project Estimated Completion Date:** Spring, 2017

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$174,325	Design
2017	\$622,590	Construction

## **Source of Funding:**

**Operating Budget Impact:** Increase in electrical cost for additional lighting - \$1,125 in FY17 increasing to \$1,500 beginning in FY18.



**Town Hall Parking Lot Looking South towards Main Street** 

# PROJECT: PW -15-9 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 11 of 20

Project Working Title: U.S. CUSTOM HOUSE REPAIRS (TRAYSER MUSEUM)

**Project Location:** 2252 Main Street, Route 6A, Barnstable, MA

**Project Description:** This project would fund needed masonry, cast iron & exterior door repairs /restoration and water infiltration issues of the building. These funds would provide for design services only. Phase II work will include interior repairs for finishes, HVAC systems & lighting.

**Project Justification:** Erected in 1856 the building has been patched, repaired and painted but heavier renovations are now necessary. Masonry and exterior metal deterioration continues to allow moisture penetration into the structure.

**Work Previously Accomplished:** A Historic building study was completed for this building with CPC funds. In 2012, the CPC also approved funds to perform much needed window restoration and limited masonry crack repairs. The cost estimate is based on continuing the needed work outlined in the historic building study and reflects only a portion of work needed per the study.

**Impact Of Denial/Postponement:** Continued deferred maintenance of this facility will contribute to its deterioration, and could ultimately result in a total, and costly, replacement of the building.

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: Architect assisted in-house estimate

**Project Estimated Completion Date:** Fall 2016

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components
2016 \$393,129 Phase II interior design and restoration

Source of Funding: General Fund design and Possible CPC funds & state grant funds for construction

**Operating Budget Impact:** This work will result in some reduction in maintenance requirements, but should not have a significant impact on the Operating Budgets.





**Needed Masonry Work** 

PROJECT: PW -15-14 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 12 of 20

Project Working Title: STRUCTURES & GROUNDS (S&G) EXISTING FACILITY UPGRADES

**Project Location:** 800 Pitcher's Way, Hyannis, MA

**Project Description:** The existing Structures & Grounds building was constructed over 25 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 34 employees working out of this facility not counting seasonal staff.

**Project Justification:** An ongoing program of renovations is necessary in order to protect the investments the Town has made in its capital assets. Many improvements identified are life safety and code compliance issues. Install new HV units, exhaust fans, and carbon monoxide detectors per code; new oil/water separator and / or tight tank system for floor drains.

**Work Previously Accomplished**: A rubber roof system was installed on the main building, and the pole barn was re-shingled.

**Impact Of Denial/Postponement:** This work is necessary to extend the useful life of this facility.

Project Cost Estimates: FY 2015 Design: \$19,800 Construction: \$68,700

**Basis for Cost Estimates:** DPW in-house estimate

**Project Estimated Completion Date:** Summer, 2015

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	Cost	Project Description/Components
2015	\$0	
2016	\$ 34,500	Install new HV units, exhaust fans, and carbon monoxide detector
	\$ 34,200	New oil/water separator and / or tight tank system for floor drains
	\$ 19,800	Project management, contingency & escalation
	\$ 87,500	
2017	\$ 60,630	Install second floor means of egress
	\$ 9,500	New fire rated door and completion of fire separation wall
	\$ 19,843	Project management, contingency & escalation
	\$ 89,973	
2018	\$ 9,416	Storage garage personnel egress door
	\$ 20,000	Replace/repair modified C shaped end rafter
	\$ 20,300	Replace missing wind bracing with portal framing
	\$ 17,638	Project management, contingency & escalation
	\$ 67,354	
2019	\$158,500	Install second floor elevator
	\$ 46,500	Project management, contingency & escalation
	\$205,000	

**Source of Funding:** General Fund

**Operating Budget Impact:** This project is not expected to impact the Operating Budget, other than realizing small savings from newer more efficient HV units.





**Structures & Grounds Office Building** 

PROJECT: PW -15-15 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 13 of 20

Project Working Title: MOSSWOOD CEMETERY MAIN BUILDING IMPROVEMENTS

**Project Location:** Mosswood Cemetery, Putnam Ave, Cotuit, MA

**Project Description:** Constructing an addition onto the existing Mosswood Cemetery office to providing a bathroom and wash up area for the DPW employees; and also provide a separate, public, cemetery manager office for meetings with clients, and handicap accessible bathoom with exterior access for the residents visiting the cemetery and attendees of burial services.

**Project Justification:** Mosswood Cemetery is the Town's largest cemetery. The DPW employees that are stationed there (15-20 employees) utilize a single tiny bathroom in the office area. This restroom is also used by visitors conducting business at the cemetery, and the mourners who are attending burial services. The project will separate the facilities and provide the work crews with their own space, and the public with a separate, easily accessible facility.

**Impact Of Denial/Postponement:** We will continue to have problems with not having a public, handicap accessible, restroom at this place of business; and DPW employees will continue to have use of inadequate facilities.

**Project Cost Estimates:** FY 2015 \$0

Basis for Cost Estimates: DPW in-house estimate

**Project Estimated Completion Date:** Spring, 2017

## Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$0

2016 \$313,788 Design & Construction

Source of Funding: General fund and/or Kirkman Trust Fund

**Operating Budget Impact:** As this project is for the expansion of a facility, it is expected there will be minor impacts on the Operating Budget in the form of slightly increased utility costs. It is not expected to require any additional personnel to maintain the addition to the facility.





**Mooswood Main Building** 



Bathroom Facility - Staff & Visitors

PROJECT: PW -15-16 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 14 of 20

Project Working Title: PAINE BLACK HOUSE RENOVATION Project Location: Route 149, West Barnstable, MA

**Project Description:** Design and replacement of mechanical systems, septic system and building envelop at this historic property, and related building stabilization/repairs and improvements. The intent is to renovate this building to serve as an office/meeting space.

**Project Justification:** The property has been deteriorating at a very rapid pace. It is feared that if the Town does not invest in, at a minimum, stabilizing the property, it will quickly be beyond repair and need to be torn down.

**Impact Of Denial/Postponement:** The property is deteriorating at such a rapid rate that immediate repairs are necessary to stabilize this historic property, or it will need to be demolished.

Project Cost Estimates: FY 2015 Design: \$22,000 Construction: \$218,183

Basis for cost estimates: DPW in-house estimate

**Project Estimated Completion Date:** Summer, 2015

### **Project Cost/Description FY 2015 and Follow-On Years:**

FY Cost Project Description/Components

2015 \$240,183 Design & Construction

Source of Funding: General Fund, also this project may possibly be funded by CPC or State Historic Grant

**Operating Budget Impact:** This facility is currently not maintained. Its renovation will result in additional utility and maintenance costs (estimated at \$2,500/year) to be paid by tenant. Janitorial services and immediate yard maintenance are assumed to be handled by the end-users.







**Paine Black House Exterior Conditions** 

#### PROJECT: PW -15-17 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 15 of 20

Project Working Title: US CUSTOM HOUSE CARRIAGE HOUSE REPAIRS (TRAYSER MUSEUM)

**Project Location:** 3353 Main Street, Route 6A, Barnstable, MA

**Project Description:** This project would fund needed exterior masonry & fenestration repairs of the carriage house building. These funds would provide for design and renovation/construction.

**Project Justification:** Erected in 1856, the building has been patched, repaired and painted but heavier renovations are now necessary. Masonry and exterior deterioration continues to allow moisture penetration into the structure, causing furthering deterioration.

**Work Previously Accomplished**: A historic building study was completed for this building with CPC funding. This project's recommendations and cost estimate are based on the results of that study.

**Impact Of Denial/Postponement:** Continuing to defer maintenance on this facility will contribute to its deterioration, and could ultimately result in a total and costly replacement.

**Project Cost Estimates:** FY 2015 Design: \$51,616 Construction: \$144,161

Basis for Cost Estimates: DPW in-house estimate

**Project Estimated Completion Date:** Winter, 2015

#### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components
2015 \$195,777 Trayser Carriage House Repairs

**Source of Funding:** General Fund and/or CPC funds or state historic grants

**Operating Budget Impact:** This facility is an existing facility that is currently maintained by the DPW. These improvements are not expected to impact the Operating Budget.







#### PROJECT: PW -15-18 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 16 of 20

**Project Working Title:** BURGESS BARN IMPROVEMENTS **Project Location:** 559 Route 149, West Barnstable, MA

**Project Description:** This project would fund needed stabilization of the building structure and access improvements to the Burgess Barn. The work would include structural stabilization, roofing, new access doors, siding, interior work, and site improvements.

**Project Justification:** Erected in 1823, the building is in a state of significant disrepair and in danger of being lost. It has been patched and repaired, but heavier renovations are now necessary or the building may ultimately need to be demolished.

**Impact Of Denial/Postponement:** Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

**Project Cost Estimates:** FY 2015 Design: \$53,836

FY 2016 Construction: \$188,977

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: Fall, 2016

## **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 53,836	Design - Burgess Barn Improvements
2016	\$ 188,977	Construction / Stabilization

**Source of Funding:** General Fund for design; possible CPC funding, if approved for construction

**Operating Budget Impact:** This project is to stabilize an existing Town building. These renovations are not expected to impact the Operating Budget.









PROJECT: PW -15-19 ADMINISTRATION DEPARTMENT PRIORITY: 17 of 20

Project Working Title: RUSHY MARSH POND RESTORATION PROJECT

**Project Location:** Main Street Cotuit, MA

**Project Description:** The project seeks to remedy a previous project and provide a viable culvert connection to Rushy Marsh Pond. The pond presently has a dubious connection via an 18" pipe to the Sound which is constantly plugged with sand; and a failed precast concrete culvert that is also plugged with sand. This project will look to revitalize the precast concrete culvert at the sound end of the pond, or if that is not possible, replace it.

**Project Justification:** Construction of the previous project was fully funded with a FY12 CIP. The construction was performed in the spring of 2012, and included utility relocation and the installation of a precast culvert and some dune restoration. The finished project failed almost immediately due to unanticipated sand deposition. It is intended to move forward with a robust scientific study of sand transportation and wave action in the area, and to use this study to revitalize that project with the possible inclusion of a "hardened" entry and exit. Permitting agencies have recently allowed more structural solutions at similar locations (they were previously reticent about hard solutions on this project). Closely controlled construction would flow the design and permitting. NRCS has allowed an extension of their existing funding pledge until September 2014 that would allow the Town to ultimately receive the agency's 75% contribution to the project.

Work Previously Accomplished: Design, permitting and failed construction. Prior Funding:

FY01 - Study \$ 20,000 FY04 - Design \$ 40,000 FY08 - Permit/construct \$120,000 FY10 - Construct \$120,000

**Impact Of Denial/Postponement:** The water quality in Rushy Marsh Pond, which is already degraded, will continue to worsen. Risks for flooding on Main Street and surrounding areas will remain.

Project Cost Estimates: FY 2015 Design \$ 75,000 Construction \$ 452,000

**Basis for cost estimates:** DPW Engineering Cost Estimate

**Project Estimated Completion Date:** June 2015

**Project Cost/Description FY 2015 and Follow-On Years:** 

<u>FY</u> <u>Cost</u> <u>Project Description/Components</u>

2015 \$527,000 Design & Construction

Source of Funding: NRCS funding

**Operating Budget Impact**: There will be an Operating Budget impact from this project as there will be future maintenance requirements to "dredge" the culvert channel regularly. The annual cost is estimated at \$5,000.



**Culver October 2013** 

PROJECT: PW -15-20 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 18 of 20

**Project Working Title: OLD JAIL REPAIRS** 

**Project Location:** 3365 Main Street, Route 6A, Barnstable, MA

**Project Description:** This project would fund needed exterior and site improvements to the building. These funds would provide for design and renovation/construction.

**Project Justification:** Originally constructed in 1690, the building has been moved, patched, repaired and painted but additional renovations are now necessary.

**Impact Of Denial/Postponement:** Continued deferred maintenance of this facility will contribute to its continued deterioration.

Project Cost Estimates: FY 2015 Design: \$35,031 FY 2016 Construction: \$143,810

**Basis for Cost Estimates:** DPW in-house estimate

**Project Estimated Completion Date:** Fall, 2015

# **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 35,031	Design Old Jail Repairs
2016	\$ 143.810	Construction

Source of Funding: General Fund

**Operating Budget Impact:** These renovations are not expected to have a measurable impact on the Operating Budget.



**Old Jail at Trayser Museum** 

PROJECT: PW -15-21 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 19 of 20

**Project Working Title:** BURGESS HOUSE IMPROVEMENTS **Project Location:** 559 Route 149, West Barnstable, MA

**Project Description:** This project would fund needed stabilization of the building structure. The work would include structural repair, roofing, replacing electrical and plumbing components, replacement of mechanical systems, siding, and new doors and windows as necessary.

Phase I: Roof replacement with red cedar shingles

Phase II: Design and renovation / improvements to interior including MEP systems.

**Project Justification:** Erected in 1720, the building has been patched, repaired and painted but heavier renovations are now necessary. The work will include providing required ADA access to the building.

**Work Previously Accomplished:** None via a CIP project. Stabilization work to the building has been conducted by the Marstons Mills Village Association.

**Impact Of Denial/Postponement:** Continued deferred maintenance of this facility will contribute to its deterioration.

Project Cost Estimates: FY 2015 Design: \$8,893 Construction: \$42,350

Basis for cost estimates: Architect assisted in-house estimate

Project Estimated Completion Date: Fall, 2016

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 51,243	<b>Burgess House Roof Replacement</b>
2016	\$ 300,000	Interior Design & Renovation

Source of Funding: CPC Funds for roof replacement; General Fund for design and construction of interior

Operating Budget Impact now: Renovations are not expected to impact the Operating Budget.





### **Burgess House**

PROJECT: PW -15-22 STRUCTURES & GROUNDS DEPARTMENT PRIORITY: 20 of 20

Project Working Title: 200 MAIN STREET FACILITY UPGRADES

**Project Location:** 200 Main Street, Hyannis, MA

**Project Description:** The basement will be converted to climate controlled storage space for Town records, as requested by the Town Clerk, including secure vault storage, accessible by stairs and a new 3 stop elevator for access. The second floor area can not be renovated for office use until the parking lot is increased in size to meet zoning requirements to allow for such expansion of use.

**Project Justification:** The town's record storage space needs to be increased to accommodate the growing need in order to retain records per state statue.

**Work Previously Accomplished**: A Feasibility study has been completed. The re-roofing of the building has been completed.

**Impact Of Denial/Postponement:** The Town Clerk has recently specifically asked for a good, dry, and secure area for the storage of town records as required by statue. There is no other area available to the clerk for this record storage. The Town offices at 200 Main Street, second floor will remain dry goods storage space. Inadequate, non-secure storage of Town records will continue. Inefficient use of a portion of the first floor will continue.

**Project Cost Estimates:** FY 2015 Design: \$56,823

Basis for cost estimates: DPW in-house estimate

Project Estimated Completion Date: Fall, 2016

## **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 56,823	Phase I Design
2016	\$ 372,530	Phase I Construction

Source of Funding: General Fund

**Operating Budget Impact:** It is expected utility expenses for the facility would significantly increase. Additional personnel may be necessary to handle additional janitorial responsibilities.

**Supplemental Information:** The existing parking facilities are not adequate to accommodate future expansion of office space at this site. As many as 60 additional parking spaces may be required. No cost has been carried for parking acquisition. Until resolved, this the full extent of this project should probably not be undertaken.



**Second Floor 200 Main Street Facility** 



**Basement 200 Main Street Facility** 

### **REGULATORY SERVICES**

PROJECT: RS -15-1 CONSERVATION DEPARTMENT PRIORITY: 1 of 4

**Project Working Title: HYDRILLA CONTROL** 

**Project Location:** Long Pond, Centerville & Mystic Lake, Marstons Mills

**Project Description:** 2013 marked the 12<sup>th</sup> year of controlling invasive hydrilla at Long Pond; 3<sup>rd</sup> year at Mystic Lake. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It can spread from pond to pond. The Town, Association for the Preservation of Long Pond, the Indian Ponds Association and MA DCR are partnering in this effort to preserve the 2 affected ponds and to reduce the chance of hydrilla spread to other ponds in Barnstable. As a result, hydrilla has been drastically reduced in Long Pond, and slowed in Mystic Lake. An effective aquatic herbicide Aquathol K was used in Mystic in 2013. Halting spread of the hydrilla in Mystic Lake has proven difficult. Moreover, the loss of key individuals from the IPA will leave the previously-volunteer benthic blanketing and hand-pulling efforts to our contractor going forward.

**Project Justification**: Our efforts have resulted in a drastic decline of hydrilla in Long Pond and the slowing of the expansion of hydrilla in Mystic Lake. In both cases, our efforts have discouraged its spread to other ponds. 2013 marked the 1<sup>st</sup> year in which hydrilla went unobserved in Long Pond; we are hoping that it is eradicated, but are seeking funding for a 2014 control effort should hydrilla reappear.

**Work Previously Accomplished**: Efforts to date have resulted in drastic decline of hydrilla in Long Pond and the slowing of the expansion of hydrilla in Mystic Lake. Importantly, our efforts have discouraged its spread to other ponds.

**Impact Of Denial/Postponement:** Take-over of Long Pond, Mystic Lake and other Town lakes & ponds by hydrilla, and a much greater cost of control.

**Project Cost Estimates:** FY 2015 Construction \$ 75,000

Basis for cost estimates: Past experience

**Project Estimated Completion Date:** December 2014

### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$75,000	hydrilla control – using chemical & physical methods
2016	\$75,000	hydrilla control – using chemical & physical methods

**Source of Funding:** General Fund

Operating Budget Impact: None

#### PROJECT: RS -15-2 CONSERVATION DEPARTMENT PRIORITY: 2 of 4

Project Working Title: LOVELL'S POND ALUM TREATMENT
Project Location: Lovell's Pond, Santuit-Newtown Rd., Cotuit

Project Description: Alum injection onto bottom sediments of Lovell's Pond to prevent devastating algae

blooms

**Project Justification:** Aeration system installed in 2010 has provided superb oxygen levels and mixing within the pond. However, operation has been beset with mechanical unreliability, and severe blue-green algae blooms have persisted, resulting in routine closures of the swimming beach. Analysis of the pond in 2013 has provided a clearer understanding of the water quality issues at Lovell's, and points to alum injection as the stand-alone choice for cost-effective improvement in water quality. Alum success in turning around conditions at both Hamlin Pond (since 1995) and Mystic Lake (since 2010) reinforce this choice.

Work Previously Accomplished: Diagnostic/ feasibility study completed far under budget

Impact Of Denial/Postponement: Severe algae blooms and beach closures will persist.

Project Cost Estimates: FY 2015 Design \$ 20,000 Construction \$ 120,000

Basis for cost estimates: Past experience; 2013 feasibility study

**Project Estimated Completion Date:** December 2017

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>ients</u>
/ alum injection

**Source of Funding:** General Fund

Operating Budget Impact: None



2012 Blue-green Algae Bloom covering Lovell's Pond

### PROJECT: RS -15-3 CONSERVATION DEPARTMENT PRIORITY: 3 of 4

Project Working Title: SHOOTING RANGE LEAD ABATEMENT

**Project Location:** West Barnstable conservation parcel, off Service Road

**Project Description:** Removal of lead contamination resultant from years of firing at the Town shooting range

Project Justification: Lead concentration exceeds acceptable levels in backstops and shotfall areas

**Work Previously Accomplished this Proposed Project:** A sound abatement berm was constructed north of the shot gun range as a sediment disposal site for the Barnstable Inner Harbor Dredge Project

Impact Of Denial/Postponement: Pb contamination remains unabated

**Project Cost Estimates:** Design: \$25,000 Construction: \$160,000

Basis for cost estimates: 2006 estimate by Horsley Witten Group and revised in 2013

**Project Estimated Completion Date:** Summer, 2015

### Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$189,926 Design, Permitting, Project Management +Lead abatement

**Source of Funding:** General Fund

**Operating Budget Impact:** None at this time. However, continued use of the range will require future Pb abatement, as concentrations in backstops and shotfall areas build back up.

Supplemental Information: Detailed construction cost estimates:

Barnstable Shooting Range, Phase 2

Preliminary Estimate - May 2007

Deconstruction of Existing Berm 1 & 2

Item#	Item Description	Estimated Quantity	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS	\$1,000.00	\$1,000
2	Remove First 1-ft of Hotspot Areas of Berm and Stockpile On-Site for Treatment	485	CY	\$3.00	\$1,454
3	Remove First 0.5-ft of Shotfall Area and Stockpile On-Site for Treatment	586	CY	\$3.00	\$1,758
4a	On-site Soil Treatment	1,520	TON	\$20.00	\$30,405
4b	Lead Disposal (Spent Lead Only)	·	LB	\$0.50	\$0

SUBTOTAL \$34,617

Maintenance

Item#	Item Description	Estimated Quantity	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS	\$1,000.00	\$1,000
2	Remove First 1-ft of Hotspot Areas of Berm and Stockpile On-Site for Treatment	103	CY	\$3.00	\$308
3	Remove First 0.5-ft of Shotfall Area and Stockpile On-Site for Treatment	258	CY	\$4.00	\$1,033
4	Hydrated Lime Spraying	184	SY	\$0.50	\$92
5a	On-site Soil Treatment	513	TON	\$20.00	\$10,252
5b	Lead Disposal (Spent Lead Only)		LB	\$0.50	\$0
				SUBTOTAL	\$12,686

5527011E 912,500

Deconstruction of Existing Berm 5

Item#	Item Description	Estimated Quantity	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS	\$1,000.00	\$1,000
2	Remove First 1-ft of Hotspot Areas of Berm and	202	CY	\$3.00	\$606
- 4	Stockpile On-Site for Treatment	202	CI	33.00	3000
2	Remove First 0.5-ft of Shotfall Area and	415	CY	\$3.00	\$1,245
	Stockpile On-Site for Treatment	413	CI	\$5.00	\$1,243
4a	On-site Soil Treatment	876	TON	\$20.00	\$17,525
4b	Lead Disposal (Spent Lead Only)		LB	\$0.50	\$0

SUBTOTAL \$20,377

### Maintenance

Item#	Item Description	Estimated Quantity	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS	\$1,000.00	\$1,000
2	Remove First 1-ft of Hotspot Areas of Berm and Stockpile On-Site for Treatment	267	CY	\$3.00	\$801
3	Remove First 0.5-ft of Shotfall Area and Stockpile On-Site for Treatment	1,016	CY	\$4.00	\$4,064
4	Hydrated Lime Spraying	683	SY	\$0.50	\$342
5a	On-site Soil Treatment	1,822	TON	\$20.00	\$36,439
5b	Lead Disposal (Spent Lead Only)		LB	\$0.50	\$0

SUBTOTAL \$42,646

Design, permitting, bidding, admin. \$ 25,000
Lead abatement \$110,326
Escalation from 2007 \$ 33,100
Contingency 15% \$ 21,500
Total \$189,926

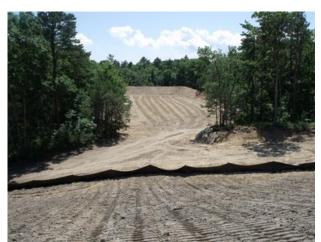




Shooting Range 2006



Shooting Range 2006





Shooting Range 2013

#### PROJECT: RS -15-4 CONSERVATION DEPARTMENT PRIORITY: 4 of 4

**Project Working Title: FANWORT CONTROL** 

**Project Location:** We quaquet Lake (including Bearse's Pond & Gooseberry Cove)

**Project Description:** Project consists of invasive fanwort control at Wequaquet Lake hot spots. Our effort in 2013 was limited to suction harvesting only. Proposed for 2014 is a combination of suction harvesting where it can be effective (Wequaquet & Gooseberry) and Sonar aquatic herbicide use in Bearse's where fanwort is widespread. Endangered plant species concerns have hindered our ability to permit Sonar use in recent years, though the outlook is improved going forward.

**Project Justification:** Fanwort is very invasive, and without control, will spread throughout the lake, impacting recreational use.

**Work Previously Accomplished this Proposed Project:** Suction harvesting conducted in Bearse's Pond, Gooseberry Cove & Wequaquet Lake.

Impact Of Denial/Postponement: Fanwort spread will greatly impact recreation if not controlled

Project Cost Estimates: FY 2015 Design \$ 15,000 Construction \$ 85,000

Basis for cost estimates: Past experience; 2013 fanwort control

**Project Estimated Completion Date**: December 2014

#### **Project Cost/Description FY 2015 and Follow-On Years:**

FY Cost Project Description/Components

2015 \$ 75,000 Endangered plant surveys, permitting, Sonar treatment, suction harvesting

2016 \$ 25,000 suction harvesting

Source of Funding: General Fund

**Operating Budget Impact: None** 



2013 Harvesting Fanwort in Bearse's Pond

### **SCHOOLS**

PROJECT: SCH-15-1 FACILITIES DEPARTMENT PRIORITY: 1 of 22

Project Working Title: BPS PRE-SCHOOL/EARLY LEARNING CENTER UPGRADES AND ELEMENTARY SCHOOL

**IMPROVEMENTS** 

**Project Location:** Hyannis West Elementary Campus, 549 W. Main St., Hyannis;

Barnstable West Barnstable Elementary, 2463 Main Street, W. Barnstable;

Centerville Elementary School, 658 Bay Lane, Centerville

**Project Description:** This is a three phase project consisting of the construction of the Barnstable Public Schools Early Learning Center at Hyannis West Elementary and removal/replacement of current/outdated portable classrooms at Barnstable West Barnstable, Centerville, and Hyannis West Elementary Schools. Phase I would consist of the construction of the Barnstable Public Schools Early Learning Center at HYW to house HYW/Centerville Pre-School and Kindergarten students and house program staff and administration. Phases II & III would include replacement of current portable facilities at Barnstable West Barnstable and Hyannis West with permanent modular units and the removal of the Centerville portable unit.

**Project Justification:** The Barnstable Public School system has closed five schools over the last ten years. We are beginning to see an upsurge in elementary enrollment thus necessitating the eventual need for additional quality and code compliant learning space. Construction of a new Early Learning Center at Hyannis West will also free up much needed classroom space at Centerville Elementary School. If additional space is not provided, class sizes at Centerville ES could potentially result in 35 students per classroom.

Project Cost Estimates: Phase I - FY 2015 Design \$ 200,000 Construction \$1,800,000

Phase II - FY 2016 Design \$ 100,000 Construction \$1,100,000 Phase III - FY 2017 Design \$ 150,000 Construction \$1,600,000

**Basis for cost estimates**: Engineering/Architect Estimates

**Project Estimated Completion Date:** September 2016

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	Cost	Project Description/Components
2015	\$ 2,000,000	HYW Modular Classroom Construction, 6 Classrooms @ ~ 7500 ft2.
2016	\$ 1,200,000	BWB Modular Classroom Improvements, 2 – 3 classrooms &
	4	library/media center @ 4000 ft2.
2017	\$ 1,750,000	HYW Modular Classroom Improvements, 4 kindergarten classrooms,
		ELL Parent Center, OT/PT Speech related services @ 6000 ft2.

**Source of Funding:** General Fund

**Operating Budget Impact:** Removal of existing modular classrooms would provide a positive impact on current facilities utilities and maintenance budget of  $\sim$  \$25,000/year.



**Hyannis West Elementary School** 



**Existing Classroom Modular** 



Classroom on Stage

Project Working Title: BARNSTABLE INTERMEDIATE SCHOOL FAÇADE & ROOF IMPROVEMENTS

**Project Location:** 895 Falmouth Road

**Project Description:** Extensive Capital required (~\$4M) to fund costs required for extensive exterior repairs identified in Exterior Evaluation Study performed by Gale Associates in December 2009. FY15 will include design, engineering, bid documents and correction of some roof water leaks on an air handler connection.

**Project Justification:** If allowed to go unchecked and unrepaired, building envelope will continue to deteriorate, allow leakage and create the opportunity for water damage and the potential health and environmental quality issues.

Work Previously Accomplished: Engineering evaluation and existing studies for specs and bid package.

**Impact of Denial/Postponement:** Continued deterioration of facility will result in interior water damage, additional exterior problems and potential health/safety issues.

Project Cost Estimates: FY 2015 Design \$20,000 Construction: \$180,000

**Project Estimated Completion Date:** September 2018

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 200,000	Design, bid documents for Phase 1 & correction of roof leaks
2016	\$ 800,000	Construction Phase II
2017	\$ 1,000,000	Construction Phase III
2018	\$ 1,000,000	Construction Phase IV
2019	\$ 1,000,000	Construction Phase V

Source of Funding: General Fund

**Operating Budget Impact:** In addition to safety & building considerations, energy savings will be appreciable due to improvements to window/door/roof/HVAC flashings and weather sealing.

**Supplemental Information:** This project could benefit from collaborative effort between DPW/School resources for project management of overall project





Project Working Title: UPGRADE TO HIGH SCHOOL FIRE, INTRUSION, & COMMUNICATION SYSTEM

**Project Location:** Barnstable High School, 744 West Main Street

**Project Description**: Upgrade of existing Simplex system, current system is outdated, (panel, smokes, heats, pull, horn strobes, PA speakers, etc.) This cost estimate considers upgrade to existing Simplex system which includes improvement and modifications to intrusion, fire alarm, sprinkler, PA, and clock systems.

**Project Justification:** We are consistently experiencing significant faults and issues with the existing fire, intrusion, and communication system(s). Some areas of the building do not have sufficient audible/visual coverage. Due to the proprietary nature of the existing system, maintenance of the system has presented a challenge for private contractors (past and present). Simplex has "never" worked on the system. Hyannis Fire Department has strongly recommended upgrades and/or replacement with concerns for reliability and compliance to standards.

**Work Previously Accomplished**: Work continues on this project to correct and upgrade existing system deficiencies which include upgrades to, modifications and repairs to intrusion, fire alarm, PA, phone and clock systems. Estimated overall cost (\$1M over 5 years) of this project has been reduced to \$600,000 attributed to reuse of current system infrastructure vs. option of new parallel system installation.

**Impact of Denial/Postponement:** Denial or postponement of this project jeopardizes the safety and security of our students, public, and property.

**Project Cost Estimates:** FY 2015 Construction \$ 200,000

**Project Estimated Completion Date:** Sept 2016

### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 200,000	Smokes, Heats, Pulls
2016	\$ 200,000	Smokes, Heats, Pulls, Intrusion, Communication

Source of Funding: General Fund

**Operating Budget Impact:** Upgrade or replacement of system will reduce the cost of constant repairs (\$10K/yr) and provide more reliable coverage reducing liability for extensive damage/repairs.

**Supplemental Information:** New system development and design enhancements will rely heavily on inputs from Hyannis Fire Department

Project Working Title: INFRASTRUCTURE IMPROVEMENT FOR THE BPS NETWORK: ACCESS TO INTERNET AND DIGITAL RESOURCES IN A MOBILE ENVIRONMENT

**Project Locations:** 

School Administration Building, 230 South Street, Hyannis

Barnstable High School, 744 West Main Street, Hyannis

Barnstable Intermediate School, 895 Falmouth Road, Hyannis

Barnstable United, 730 West Barnstable Road, Marstons Mills

Barnstable Community Horace Mann Charter Public School, 165 Bearse's Way, Hyannis

Barnstable West Barnstable Elementary, 2463 Main Street, Barnstable

Centerville Elementary, 568 Bay Lane, Centerville

West Villages Elementary, 760 Osterville-West Barnstable Road, Marstons MIlls

Hyannis West Elementary School infrastructure has been upgraded with ERATE PRIORITY 2 funding. The project totaling \$139,000 (BPS cost share approximately \$14,000.00) included the installation and configuration of new switches in both the MDF and IDF closets, Cat 5 cabling throughout the entire building, and 20 Cisco enterprise wireless access points. Hyannis West is the first school to be completely upgraded with infrastructure improvements.

**Project Description:** In years two and three, this capital improvement project will continue to fund the construction of a managed, enterprise, and secured wireless network in the district to support the demand for increased connectivity of mobile devices, computers and other peripherals. The requested project funding is for installation and configuration of the following:

300 Ruckus 7982, 3x3 MIMIO, 3 SS, Access Points (projected total for the project) Zone Manager, Controller, and redundant controller, for enterprise wireless solution Cat 6 cabling from switch to 300 access points, ceiling mounted for coverage and density Additional blades to existing switches/extra ports

Note that this part of the project is a managed wireless network. Access points are connected via Cat 6 cabling and directly connected to the switches within buildings. Access points must be configured to our internal connections in order to manage and provide security to our network. The access points selected are a business or enterprise solution, which allows many connections to each access point.

In addition, this capital improvement project will also fund an air conditioning system in the server rooms (installation by TOB/School maintenance). Once the investment of infrastructure is made, we must protect that equipment from the heat generated by the new equipment.

#### Background and Significance of an enterprise wireless solution:

There has been a mobile explosion across the globe; mobile devices are changing the face of education. In addition to mobile learning (anytime, anywhere), there are other pressures that districts across the nation are feeling regarding the demand for 'big bandwidth' and wireless access for the educational process. These state and national directives are as follows:

- identified in the Mass Common Core curriculum standards identified/increased technology skills in content areas
- PARCC (Partnership for Assessment of Readiness for College and Career), a national shift for online high stakes testing

- Edwin online testing, Massachusetts Department of Elementary and Secondary Education, an online assessment system to deliver curriculum and assessment data to districts
- Access to digital curriculum (no longer are textbooks needed).

Barnstable Public Schools has embraced mobile learning and is moving our 1:1 initiative forward. Barnstable Public Schools have been infusing technology (iPads) into the curriculum with a focus on grades 6, 7 and 8. It is our vision that every student in grades 7 -12 has access to that mobile technology in the near future.

Project Justification: The Town of Barnstable has completed its construction on the Barnstable Fiber Optic Network (BFON) in October of 2013. Every municipal and school building is now connected with fiber optic cable and that project provided ONE high end switch in each of the main closets for each of the school buildings. Year one of this capital improvement project funded additional switches in the remaining IDF closets. All schools have been upgraded with direct access to the fiber built by Open Cape and managed by Cape Net. In addition, we now subscribe to synchronous bandwidth of 100 mb from Cape Net. With connections provided by Open Cape/Cape Net, we have configured our network and push out Internet access through the Barnstable Fiber Optic Network to all of the schools in the Town of Barnstable. Most educational resources reside 'in the cloud' and more and more resources and tools are put there every day. Internet access is mission critical to our work.

In essence, we are future-proofing our network to accommodate the increased needs of student access for the next five years, at a minimum. Technology must be leveraged in the educational realm to provide more engaging and powerful learning experiences. Over 5,300 students and 800 staff in our schools access the Internet for information and digital resources on a daily basis. It is our obligation to educate our students to prepare them for the future, and to be college and career ready. Without technology and technology skills, our students are in jeopardy of falling behind their peers, and will be unable to compete in a global environment/economy.

With consideration of the Town of Barnstable Fiber project and the opportunities that Open Cape provide to the educational institution (fiber optic connections and big bandwidth), the town and school department now has an unprecedented opportunity to create a 21<sup>st</sup> learning educational institution in a way that will truly prepare our students to compete in the global economy. Mobile technology and wireless access plays a critical role by equipping students and teachers with 24/7 access to learning communities and information. As mobile devices become ubiquitous, students are utilizing them to facilitate learning and enhance productivity in and out of school.

The explosion of wireless technologies has created a new dimension in education. This project will have a significant educational impact on BPS. The use of mobile learning devices for productivity, organization, collaboration and learning is highly personal and extremely customizable. Wireless, which provides "anytime, anywhere" access to resources, can have a tremendous impact on teaching, learning, and student collaboration. Chis Dede, the Timothy E. Wirth Professor in Learning Technologies at Harvard University, defines MOBILE LEARNING as "learning a variety of content and skills anytime, anyplace with a small device light enough to be carried in one hand."

There is political interest to invest in the future of education through Race to the Top. There is a national vision for teaching and learning that are beautifully outlined by the National Education Technology Plan (and the National Broadband Plan). This district technology department supports a vision of an educational system where every student has a technology device in their hand, connected to the Internet and the digital resources that support teaching and learning. A wireless infrastructure that gives students access, anytime and anywhere can support that vision. Students learn best by doing, and the best learning is personalized to each student, and that learning becomes richest through collaboration with peers, mentors, experts, and indeed a whole

learning community. We have an opportunity to deploy the technology to enable students to take charge of their learning.

The 2010 National Technology Plan <a href="http://www.ed.gov/sites/default/files/NETP-2010-final-report.pdf">http://www.ed.gov/sites/default/files/NETP-2010-final-report.pdf</a>) published by The National Educational Department in Washington DC, has created a model of 21<sup>st</sup> century learning. Some key points of a 21<sup>st</sup> century learning environment include:

- A comprehensive infrastructure for learning that provides every student and educator with the resources they need when and where they are needed.
- A movement, to beyond the traditional model of teaching and learning, to a learning model that brings the world into the student's hands. The focus is not on the technology, it is the information that becomes available to them when they need it. It is about access.
- Powerful technology resources that are 'always on' and are available for increased learning, no matter
  what time of day, or where they are. The infrastructure facilitates access to information, multimedia
  content; it facilitates collaboration and creativity across disciplines, organizations, international
  boundaries and cultures.

Moreover, Goal 4.0 of the National Educational Plan states: "All students and educators will have access to a comprehensive infrastructure for learning when and where they need it."

To meet this goal, the challenge for districts to provide are to:

- Ensure that students and educators have adequate broadband access to the Internet and adequate wireless connectivity both inside and outside school.
- Ensure that every student and educator has at least one Internet access device and software and resources for research, communication, multimedia content creation, and collaboration for use in and out of school.

At the state level, the Massachusetts Department of Elementary and Secondary Education also has recommendations regarding an infrastructure to support teaching and learning. <u>Benchmark 5 Infrastructure for Connectivity</u> addresses our need for improvements in our infrastructure. Standards 5.1.1, 5.2.2., and 5.3 stress the need for internet access to each classroom including wireless access to all for teachers and students to use educational resources and learning environments that are increasingly hosted on-line (<a href="http://www.doe.mass.edu/edtech/tplanguide04\_07.html">http://www.doe.mass.edu/edtech/tplanguide04\_07.html</a>)

Additionally, the Massachusetts common core standards (<a href="http://www.doe.mass.edu/frameworks/ela/0311.pdf">http://www.doe.mass.edu/frameworks/ela/0311.pdf</a>) increases emphasis on communication, collaboration, creation of media rich content and publishing skills required for college and career readiness. In order to meet these standards, students and teachers need to utilize Internet based tools to reach these goals. A strong robust infrastructure is necessary to meet this increasing demand. Standard MA3.A.6 states: Students will use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamical.

In the report "Creating Our Future: Students Speak Up about their Vision for 21st Century Learning", students state a clear preference for using mobile devices that allow them to work un-tethered from traditional school boundaries. They also desire the opportunity to learn using digitally-rich curriculum and have a preference for learning through collaboration with peers. Through mobile devices and instant access to the Internet through a wireless connection, students now see the world as their classroom. They have clearly stated that using mobile devices anytime or anywhere to learn will help them improve their personal productivity and learning. Today's students are taking more and more responsibility for their learning into their own hands (Project Tomorrow 2010).

### **Work Previously Accomplished this Proposed Project:**

Year One of the Capital Improvement Project: (FY2014)

The installation of the network equipment and single mode fiber optic cabling, in conjunction with the switches purchased by Town with BFON funding, is complete (after 12 years of waiting...it's here!). The network infrastructure can now be described as a 10GB backbone between all network closets at all schools. This will offer 1GB of bandwidth to staff desktops, 1GB/PoE (Power over Ethernet) capability for enterprise class wireless. The funding of this capital improvement project in year one allowed upgrades to all switches of the Main Distribution Frame (MDF) closets and Intermediate Distribution Frame (IDF) closets in eight schools which is required to maintain a robust network and support the next phase of the enterprise wireless.

Intensive research over the past year was conducted in order to select a wireless product and vendor.

- Aeorhive, Meraki and Ruckus enterprise wireless solutions were thoroughly investigated.
- Wireless vendors were invited and presented products to a core focus group of the district technology team. Site visits to several different school systems were conducted to learn directly from the districts who have implemented the systems.
- Vendors/Contractors were interviewed in order to select the best qualified engineer and technicians for installation and configuration.
- Selection of Harbor Networks and Ruckus as the product of choice for BPS (State contract ITT 50)
- BPS school site visits and engineering plans for projected building projects.

Those phases **completed** in this 3-year infrastructure upgrade are as follows:

- Town of Barnstable Fiber Optic Network (cabling) (town funded)
- Installation and configuration of Switches (MDF & IDF)
- Installation of fiber optic cable for internal connections within buildings (to connect closets with the 10 G connections)
- Direct connection to Open Cape backhaul (BHS); 100 mb synchronous connections through Cape Net
- Access to Internet II

The following projects are **in process** and slated for February 2014 completion:

- Calculation of cat6 cabling for purchase and projected number of access points
- Selection of vendor for installation of cat 6 cabling (prevailing wage)
- Installation of Cat6 cabling and patch panels for Barnstable Intermediate School; BIS Is identified as a priority school due to the 1:1 mobile project and rollout of grade 7 iPads for every grade 7 student. This is the hard wiring required for wireless!
- Installation and configuration of Ruckus Controller, Zone Manager, and approximately 60 access points at BIS.

**Impact of Denial/Postponement:** Technology tools should be ubiquitous in the educational process; it is a means to an end. We are obligated as a district in Massachusetts to infuse technology into the common core curriculum. The infrastructure and its various technologies, including wireless, should be reliable and dependable. Unfortunately, when students walk into Barnstable Public Schools, they 'power down'. Mobile learning will change the face of education. If improvements do not continue to be supported, Barnstable Public Schools would be ignoring the recommendations of a 21<sup>st</sup> century learning environment and we would be putting our students at risk for failure in higher education or a successful career path. Without wireless access, we cannot offer our students a top notch education where technology infusion is everywhere. Furthermore, without wireless access, we will not be able to support the national drive for online testing. Increased bandwidth and wireless are key factors in successful online PARCC implementation.

Project Cost Estimates: FY 2015 Design \$ 0 Construction \$ 203,585

**Basis for cost estimates:** District core technology members and Harbor Networking members (sales and engineering) have been working closely to design and implement this project. Floor plans, heat maps, and physical walks of the entire buildings were reviewed to create a full and robust cost analysis of this project. We have, to the best of our abilities, identified all costs, including bracketing, 'construction'/cabling, installation, and engineering costs into the financial accounting.

**Project Estimated Completion Date:** September 2016

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 203,585	hardware, installation and configuration*
2016	\$ 212,865	hardware, installation and configuration**

### \*Year Two (FY2015)

Completion of the installation of a managed, enterprise and secure wireless network including the Cat6 cabling for BHS, BUES, Centerville, Barnstable Community, West Villages, and Barnstable West Barnstable. NOTE: Hyannis West completed in September of 2013, and BIS will be complete in May of 2014.

### \*\*Year Three (2016)

Completion of the installation of a managed, enterprise, and secure wireless network for the School Administration Building, additional network equipment will be added to provide adequate switches and port counts to complete 1GB connections to all staff, pupils and computer labs in all schools and administration building.

Source of Funding: General Fund

**Operating Budget Impact:** The bandwidth usages will be monitored closely; it may be possible that additional bandwidth will have to be purchased over time. Cape Net has been selected as BPS's Internet provider with Comcast free basic cable services acting as a redundant/failover service. This service is being purchased through CELT (Center for Educational Leadership) which is a vendor on the MA state contract system, COMM PASS, and is eligible for ERATE reimbursement.

An average monthly bill for 100 mb is approximately \$1,500. That cost is ERATE-able through the USAC funding for schools and libraries, and is based on a calculation on our free and reduced school lunch figures. Increased bandwidth can be increased by 100 megabit increments.

Additionally, a program enhancement was submitted through the budget process in December 2013 for FY 2014 operational budget to increase a service/maintenance contract for the enterprise wireless network (Harbor Networks).

This project will have a significant impact on the BPS network services that we provide. Many of the services we offer historically had to be building-based due to current broadband speeds. We have begun to leverage the connectivity through the BFON and the opportunities that Open Cape offer; the district technology department services can now be streamlined to one base of operations. There is an economy of scale involved in management of the network. For a specific example, the technology operational budget has reduced the number of Sonic Wall appliances and software licenses that are necessary to manage and filter the BPS network and Internet access; the fact that all buildings are now connected to the fiber network allows us to streamline the management and filtering of Internet access within one site at Barnstable High School. All Internet traffic travels from the school buildings, through the fiber (BFON), and exits through our Sonic wall

(required for CIPA, Children's Internet Protection Act). Additionally over time, with a robust wireless network, there will be some significant savings for electrical costs when the numbers of 1:1 mobile devices increase, and the computer labs become obsolete, in addition to saving space where computer labs would historically been housed.

PROJECT: SCH-15-5 FACILITIES DEPARTMENT PRIORITY: 5 of 22

Project Working Title: AIR CONDITIONING CHILLER PIPE UPGRADES

Project Location: Barnstable United Elementary, 730 Osterville-West Barnstable Road, Marstons Mills

Project Description: Reinsulate existing A/C Chiller Piping

**Project Justification:** Existing chiller pipe insulation is inadequate and has failed resulting in excessive condensation/moisture issues in the interior of the building. The resulting condensation leaks have created issues with mold on ceiling tiles, attic/above ceiling spaces and classroom areas.

**Impact of Denial/Postponement:** Postponement of this project will result in additional moisture damage to building interior spaces (ceiling cavities, floor tiles, wall surfaces, ceiling coverings, and eventual deterioration of structural members).

Project Cost Estimates: FY 2015 Design \$ 30,000 Construction \$170,000

**Basis for cost estimates:** Budgetary engineering/contractor cost estimates

Project Estimated Completion Date: September 2014

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components
2015 \$200,000 Engineering/specs/installation

**Source of Funding:** General Fund

**Operating Budget Impact:** Will reduce existing costs for ceiling tile replacement and additional cleaning required for mold removal at ~ \$10K/year.

#### PROJECT: SCH-15-6 FACILITIES DEPARTMENT PRIORITY: 6 of 22

Project Working Title: INTERIOR/EXTERIOR DOOR LOCK AND HARDWARE UPGRADES

**Project Location:** BPS Campus Wide

Project Description: Update and upgrade all interior/exterior door hardware and locksets campus wide.

**Project Justification:** Approval of this project will provide a consistent and standardized key/lock scheme for the Barnstable Public Schools. The project also includes upgrades and replacements to hardware sets on many doors, upgrades to these mechanisms assures proper door operation and provides higher levels of security to normally locked school building areas. The areas for these improvements have been identified and reviewed in conjunction with building security studies performed by the Barnstable Police Dept., Bureau of Homeland Security and Facilities Dept.

**Impact of Denial/Postponement:** Denial/postponement of this project adversely affects building security and student safety.

**Project Cost Estimates:** FY 2015 Construction \$100,000

Basis for cost estimates: Written vendor/contractor quotes

Project Estimated Completion Date: September 2014

Project Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$100,000 Replace interior/exterior door hardware and locksets

Source of Funding: General Fund

**Operating Budget Impact:** Will reduce operating budget expenses by reducing frequent maintenance and repair costs on aging hardware and mechanisms.





**Inoperable / Obsolete Door Mechanisms** 

#### PROJECT: SCH-15-8 FACILITIES DEPARTMENT PRIORITY: 7 of 22

**Project Working Title: BPS KITCHEN EQUIPMENT UPGRADES** 

**Project Location:** All BPS School Kitchens

**Project Description:** Continued Campus wide replacement and upgrade of kitchen equipment to be done as a collaborative effort (Over a five year period) between Food Services & BPS Facilities.

**Project Justification:** Existing equipment in most schools nearing 20 year end of service life. Menu requirements are changing, necessitating the need for updated equipment sets.

**Work Previously Accomplished:** In process of changing out equipment in conjunction with food services director.

**Impact of Denial/Postponement:** Denial or postponement of this request will impact the quality and quantity of meals served at BPS. We are currently experiencing issues with food preparation and delivery due to equipment failures which are difficult to repair due to issues in obtaining replacement parts and service.

**Project Cost Estimates:** FY 2015 Construction \$ 50,000

Project Estimated Completion Date: September 2019, will replace/upgrade equipment over a period of 5

years

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$50,000	BPS Kitchen Equipment Upgrades
2016	\$50,000	BPS Kitchen Equipment Upgrades
2017	\$50,000	BPS Kitchen Equipment Upgrades
2018	\$50,000	BPS Kitchen Equipment Upgrades
2019	\$50,000	BPS Kitchen Equipment Upgrades

**Source of Funding:** General Fund

Operating Budget Impact: Reduced maintenance costs with newer equipment.





**Examples of Existing Equipment Requiring Upgrade** 

Project Working Title: REBUILD AND/OR REPLACEMENT OF PUMP SETS AT UNITED 4/5 ES

**Project Location**: 730 Osterville-West Barnstable Rd, Marstons Mills, MA

**Project Description:** Rebuild/replacement HW circulation pumps

**Project Justification**: Pump sets are at end of life, need replace/rebuild to circulate water for heat.

Impact of Denial/Postponement: Unit failure will greatly affect heating and ventilation in large areas of the

school.

**Project Cost Estimates:** FY 2015 Design \$ 0 Construction \$ 75,000

**Project Estimated Completion Date:** September 2016

**Project Cost/Description FY 2015 and Follow-On Years:** 

FY Cost Project Description/Components
2015 \$75,000 Rebuild/replace pump sets

Source of Funding: General Fund

**Operating Budget Impact**: We will realize savings in both energy and maintenance costs by going to newer/more efficient units.



**Typical Circulation Pump Set** 

# PROJECT: SCH-15-15 FACILITIES DEPARTMENT PRIORITY: 9 of 22

**Project Working Title: BHS Stadium Bleachers** 

**Project Location:** 744 West Main Street, Hyannis, MA

**Project Description:** Replace/upgrade bleachers

**Project Justification:** Current bleachers are becoming structurally unsound and unsafe. Floor planks are showing signs of fatigue, bolts, fasteners, and structural members are rusting and deteriorating. Current configuration is not code or ADA compliant, due to design and age, retrofitting for compliancy is not possible.

**Impact Of Denial/Postponement:** Poses significant safety hazard and liability for Town of Barnstable.

**Project Cost Estimates:** FY 2015 Design \$0 Construction \$0

**Basis for cost estimates:** Engineering and contractor estimates

**Project Estimated Completion Date:** September 2015

### Cost/Description FY 2015 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$1,000,000 Design and construction of new HS stadium bleachers

**Source of Funding:** General Fund

Operating Budget Impact: The new bleachers will help offset maintenance costs related to the upkeep of

existing bleachers, (\$5K/year)







**High School Stadium Bleachers** 

# PROJECT: SCH-15-16 FACILITIES DEPARTMENT PRIORITY: 10 of 22

**Project Working Title:** BHS FIELD HOUSE IMPROVEMENTS **Project Location:** 744 West Main St., Hyannis, MA 02601

**Project Description:** Repairs to BHS Field House Interior Space and Floors

**Project Justification:** Require floor/equipment replacement and painting due to continued use of gym space.

Impact Of Denial/Postponement: Postponement of this work will promote additional deterioration, impact

safety.

**Project Cost Estimates:** FY 2015 Design \$0 Construction \$0

**Basis for cost estimates:** In-house estimates

**Project Estimated Completion Date:** FY 2019

## **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$0	
2018	\$250,000	Field House Floors, Walls, Equipment
2019	\$250,000	Field House Floors, Walls, Equipment

**Source of Funding:** General Fund

**Operating Budget Impact:** Will offset preventative maintenance costs for patching and painting damaged and worn areas.







**High School Field House** 

Project Working Title: BWB/HYW/CENTERVILLE UNIT VENTILATOR UPGRADES

**Project Location**: Campus Wide

**Project Description:** Replace current unit ventilator units.

Project Justification: Current units are 50+ years old, failing and not operating to current ASHRAE/DLS

standards.

Impact Of Denial/Postponement: Denial/postponement will impact air quality, occupant health and

heating/ventilation efficiency.

**Project Cost Estimates:** FY 2015 Design \$0 Construction \$0

**Basis for cost estimates**: In house estimates/contractor budgetary.

**Project Estimated Completion Date: 2019 or later** 

### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$200,000	UV Equipment/Replacement
2017	\$200,000	UV Equipment/Replacement
2018	\$200,000	UV Equipment/Replacement
2019	\$200,000	UV Equipment/Replacement

Source of Funding: General Fund

**Operating Budget Impact:** Would impact energy usage savings by 10% to 20% due to high efficiency motors and inclusion of digital controls. Additional cost savings will be realized in preventive maintenance costs, (motors, dampers, relays, etc.)



**Typical Unit Ventilator** 

#### PROJECT: SCH-15-17 FACILITIES

Project Working Title: INTERIOR/EXTERIOR DOOR REPLACEMENT

**Project Location:** 549 West Main Street, Hyannis, MA

**Project Description:** Upgrade and replace aged/dated interior and exterior doors throughout building to improve security and energy savings. This project would include the replacement of front entry doors and vestibule.

**Project Justification:** Existing doors are > 50 years old and in need of replacement. Current units are warped to the point where air/rodent infiltration has become an issue and building security is at risk.

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: Budgetary vendor cost estimates, facilities unit rates, past history and installs.

**Project Estimated Completion Date:** September 2017

## **Project Cost/Description FY 2014 and Follow-On Years:**

<u>FY</u>	Cost	Proj	ect Descrij	otion	/Components

2015 \$0

2016 \$300,000 HYW Interior/Exterior Door Replacement

**Source of Funding:** General Fund

Operating Budget Impact: None identified



**Example – Deteriorated Door** 

PROJECT: SCH-15-13 FACILITIES DEPARTMENT PRIORITY: 13 of 22

Project Working Title: BCHMCPS FAÇADE IMPROVEMENTS AND ROOF REPLACEMENT

**Project Location :** 165 Bearses Way, Hyannis, Ma

**Project Description:** Provide exterior repairs including repointing, trim replacement, gutters, doors, downspouts and foundation. Replace existing sloped, ballasted roofs and flat roofs.

**Project Justification:** Continued deterioration of building exterior is the cause of areas of increasing water/air infiltration. Additionally failure of mortar joints and poured surfaces is allowing water penetration resulting in wall heaving and movement.

**Impact Of Denial/Postponement:** Denial or postponement of this project will result in additional deterioration which will cause continued interior water damage and structural damage to masonry walls. Additionally, failure to replace and repair trim work is causing a health hazard by offering shelter to birds and rodents.

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: Gale Associates Conditions Study dated March 4, 2013

Project Estimated Completion Date: FY 2019 (4 phases during summer break(s)

#### Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$1,000,000	Roof/Façade Repairs
2017	\$ 500,000	Roof/Façade Repairs
2018	\$ 500,000	Façade/Masonry Repair
2019	\$ 500,000	Trim and misc repairs

Source of Funding: General Fund

**Operating Budget Impact:** Will realize energy and preventative maintenance repairs due to improvements in building insulation and exterior/roof repairs.



**BCHMCPS Exterior Photos: (Cracked mortar, bulging wall)** 



**BCHMCPS Exterior Photos: (Cracked mortar, bulging wall)** 

PROJECT: SCH-15-18 FACILITIES DEPARTMENT PRIORITY: 14 of 22

**Project Working Title:** IMPROVEMENTS AND RENOVATIONS TO BUES COURTYARD 730 Osterville/West Barnstable Road, Marstons Mills, MA

**Project Description:** Rebuild/renovate existing courtyard space to provide open learning/community activity space at Barnstable United Elementary School. The proposed space would be modeled after the BHS Astro Park designed to be low maintenance and intended for educational and community usage.

**Project Justification:** Courtyard area had previously been modified to house a pond and wetlands landscape which became difficult to manage and was a source to perennial moisture/dampness issues throughout the building. Through a tremendous effort, the wetscape has been removed and the courtyard now requires considerable effort to be restored to a useful and maintenance free space.

**Impact Of Denial/Postponement:** Denial of this project will render the current space as unusable for student and school related activity. The current conditions are unsightly and if left in current state, will deteriorate and create eventual safety issues.

**Project Cost Estimates:** FY 2015 \$ 0

Basis for cost estimates: Typical costs estimated from similar work performed at BHS Cobb Astro Park.

**Project Estimated Completion Date:** September 2015

Project Cost/Description FY 2016 and Follow-On Years:

FY Cost Project Description/Components

2015 \$0

2016 \$200,000 Labor, hardscape, landscape & fixtures

**Source of Funding:** General Fund

PROJECT: SCH-15-19 FACILITIES DEPARTMENT PRIORITY: 15 of 22

Project Working Title: CENTERVILLE ELEMENTARY SCHOOL WINDOW REPLACMENT

**Project Location :** 658 Bay Lane, Centerville, MA

**Project Description:** Replace remaining single pane window units with dual/thermo pane units to complete

window previous replacement project

Project Justification: Existing units are leaking and inefficient, failure to replace will result in security and

energy consumptions issues.

Impact Of Denial/Postponement: Denial of project will affect building security and energy

**Project Cost Estimates:** FY 2015 \$0

**Project Estimated Completion Date:** September 2016

**Project Cost/Description FY 2017 and Follow-On Years:** 

FY Cost Project Description/Components

2017 \$1,000,000

**Source of Funding:** General Fund

Operating Budget Impact: None identified at this time

#### PROJECT: SCH-15-10 FACILITIES DEPARTMENT PRIORITY: 16 of 22

Project Working Title: WALK-IN COOLER UPGRADES AND REPLACEMENTS

**Project Location:** Hyannis West Elementary, Centerville

**Project Description:** Rebuild/replacement of kitchen walk-in refrigerators.

**Project Justification:** Existing equipment at end of life, reliability & efficiency issues

Work Previously Accomplished: Replacement of Barnstable High School refrigeration unit.

**Impact of Denial/Postponement:** Denial in approval will result in the continued expense for repairs to operate

obsolete equipment and the replacement of spoiled food.

**Project Cost Estimates:** FY 2015 Design \$ 0 Construction \$ 0

**Project Estimated Completion Date:** July - August 2016

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<u>Project</u>	Descri	ption	/Com	ponents

2015 \$

2016 \$150,000 Rebuild/replacement of High School kitchen walk-in refrigerators

Source of Funding: General Fund

**Operating Budget Impact:** We will realize savings in both energy and maintenance costs by going to newer/more efficient units.



**High School Walk-In Refrigerators** 

PROJECT: SCH-15-20 FACILITIES DEPARTMENT PRIORITY: 17 of 22

Project Working Title: BPS Campus Wide Flooring Upgrades

**Project Location:** District Wide

**Project Description:** Replace carpeting, tile and gym flooring as needed

Project Justification: All school floors campus wide are showing signs of deterioration and will require

replacement for aesthetic, safety and health reasons

Impact Of Denial/Postponement: Denial or postponement of this request will result in continued

deterioration of existing flooring which will pose imminent safety and health issues

Project Cost Estimates: FY 2015 \$0 N/A

Basis for cost estimates: Industry standard unit rates and previous repairs and replacements

**Project Estimated Completion Date: 2019** 

Project Cost/Description FY 2015 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$0	
2017	\$100,000	Floor Replacement
2018	\$100,000	Floor Replacement
2019	\$100,000	Floor Replacement

Source of Funding: General Fund

Operating Budget Impact: Newer flooring will offset annual maintenance costs to constantly repair older

flooring.

PROJECT: SCH-15-21 FACILITIES DEPARTMENT PRIORITY: 18 of 22

Project Working Title: BPS FIELDS AND GROUNDS IMPROVEMENTS

**Project Location:** BPS Campus Wide

Project Description: Upgrades and improvement to playing fields/tennis courts and associated areas, fencing,

lighting and building grounds as needed.

**Project Justification:** Maintain improve facilities for safe operation.

Impact Of Denial/Postponement: Denial or postponement will result in poor playing conditions and possible

safety/liability issues.

**Project Cost Estimates:** FY 2015 \$0

**Project Estimated Completion Date: TBD** 

#### **Project Cost/Description FY 2018 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2018	\$500,000	Grounds Upgrades & Improvements
2019	\$500,000	Grounds Upgrades & Improvements

**Source of Funding:** General Fund

**Operating Budget Impact: TBD** 

PROJECT: SCH-15-22 FACILITIES DEPARTMENT PRIORITY: 19 of 22

Project Working Title: BPS CAMPUS WIDE PAVING

**Project Location :** Campus Wide

Project Description: Pave repair campus drives and parking lots as needed

**Project Justification:** Safety and maintenance

Impact Of Denial/Postponement: Denial or postponement will result in continued deterioration to

school/town property assets

**Project Cost Estimates:** FY 2015 \$0

Basis for cost estimates: In house estimate

**Project Estimated Completion Date: TBD** 

#### **Project Cost/Description FY 2017 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2017	\$100,000	Paving Improvements
2018	\$100,000	Paving Improvements
2019	\$100,000	Paving Improvements

**Source of Funding:** General Fund

**Operating Budget Impact: TBD** 

Project Working Title: PERFORMING ARTS CENTER UPGRADES AND IMPROVEMENTS

**Project Location:** 744 West Main St, Hyannis, MA

Project Description: Upgrades and Improvements to PAC including seating, flooring, painting and interior

improvements.

**Project Justification:** Maintain facility to high operational and visual standards.

Impact Of Denial/Postponement: Continued deterioration due to heavy usage

**Project Cost Estimates:** FY 2015 \$0

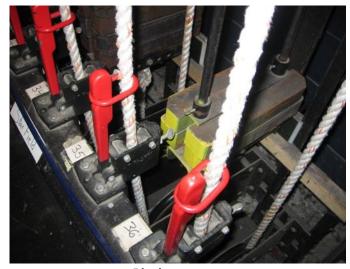
**Project Estimated Completion Date:** September 2019

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$0	
2016	\$100,000	PAC Upgrades and improvements
2017	\$100,000	PAC Upgrades and improvements
2018	\$100,000	PAC Upgrades and improvements

**Source of Funding:** General Fund

Operating Budget Impact: Will use energy newer high efficiency lights for energy cost savings.



Rigging

PROJECT: SCH-15-12 FACILITIES DEPARTMENT PRIORITY: 21 of 22

Project Working Title: HIGH SCHOOL ROOF TOP VENTILATOR REPLACEMENT

**Project Location:** 744 West Main Street, Hyannis

**Project Description:** Remove and replace RTU's 1, 2, 4, 5, & 6

**Project Justification**: Existing units are 70"s vintage *Nesbitt* units – company is no longer in business, units are

obsolete, and parts are difficult to get.

Impact of Denial/Postponement: Unit failure will greatly affect heating and ventilation in large areas of the

high school.

**Project Cost Estimates:** FY 2015 Design \$0 Construction \$ 0

**Basis for cost estimates:** Budgetary engineering/contractor cost estimates

**Project Estimated Completion Date:** September 2017

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<b>Project Description/Components</b>
2014	\$0	
2015	\$0	
2016	\$450,000	Replace RTU's 4, 5, & 6
2017	\$300,000	Replace RTU's 1 & 2

Source of Funding: General Fund

**Operating Budget Impact:** Will realize savings in both energy and maintenance costs by going to newer/more efficient units.

#### PROJECT: SCH-15-7 FACILITIES

Project Working Title: BARNSTABLE PUBLIC SCHOOLS: MULTIMEDIA READY CLASSROOMS

**Project Location:** Barnstable High School, 744 West Main St. Hyannis

**Project Description:** The funding of this capital improvement project will allow Barnstable Public Schools to install new LED/LCD TV/monitors (60 inches) at BHS to act as projection devices for teachers to view digital content and outfit existing classroom structures to meet the demanding requirements needed for utilizing 21 st century skills in a media rich classroom. Many of the classrooms across Barnstable have projectors installed in the ceilings of the classroom, or in fact, have interactive white boards installed on walls of the classrooms. The LED's are the 'next' technology; LED's are the better choice for projection of multimedia. This technology has become affordable and is recommended. Currently, there is ONE LCD installed in ONE classroom at BHS; it was funded through the Perkins Grant. Room 1409 has been equipped with a LCD monitor and wired to the computer. This set up allows the teacher to access digital resources and any other kind of multimedia. This shift (from projectors to flat panels) will be supported in any situation across the district, as we replace and renew technology/projection devices across all of Barnstable.

The following equipment will be needed to complete this project:

- Dismantling, Removal and Disposal of Analog system analog TVs and mounting brackets need to be removed from classrooms.
- LCD Monitors (60 inch) & Sound Bar- Including installation and mounting bracket for classrooms.
- Wiring and Interface Panel Proper cabling for connections to a laptop computer, including a mounted panel with ports to allow connection of different devices for viewing on monitor.

**Project Justification**: In October of 2009, Comcast Cablevision began to convert cable service from analog to digital signals. The analog television sets mounted on the walls at BHS no longer work; this old/ unserviceable equipment is absolutely outdated and deemed surplus; it is a hazard in the classroom. This old equipment is installed on walls, low enough to be a hazard that students can walk into. In addition, computers no longer support analog connections; therefore nothing can be connected to the television sets to make them serviceable. They are of no use in the classroom. Moreover, nothing is currently produced in VHS format; most educational content is now pulled from the cloud, or online resources, in digital format. This project will allow installation of LCD TV/monitors (60 inches) in classrooms at BHS, where there is great demand. By incorporating multimedia into their instruction, teachers can capture attention, engage learners, explain difficult concepts and inspire creativity. Specifically, teachers who utilize digital resources/multimedia can help students in these ways:

- Allow access to digital resources for teaching and learning Teachers are no longer limited to
  textbooks as vast amounts of knowledge and teaching ideas may be explored; students are exposed to
  the real world.
- Motivate, engage and inspire insightful questions utilizing a style of learning that today's students crave, understand, and find best success within this era.
- Help students visualize difficult concepts; multimedia resources can raise the level of understanding and application of a subject matter.
- Encourage collaboration and feedback.
- Learning styles can be addressed; digital resources projected in a classroom allow access to information and content in multiple ways and allows teachers to differentiate instruction.
- Help students make their learning visible; the technology in the classroom can assist and improve the learning occurring through authentic assessments and other performance tasks.

Impact of Denial/Postponement: There is a great demand for projection devices at BHS. At this present time, there are a very small percentage of any types of projection devices in the BHS classrooms. Administration, Curriculum Coordinators, Teachers and department heads clamor for this technology. Without, these teachers are at a disadvantage and cannot offer a 21<sup>st</sup> curriculum to the students of Barnstable. New staff arrives fully prepared to teach using these devices and resources on a daily basis. This school year, we have welcomed a record number of new teachers district wide who expect to use and depend on current technologies in their classrooms.

Currently, there are projectors available for 'sign out' that teachers can borrow. There are approximately 10 projectors that approximately 100 teachers compete for; at times, technology team members must 'mediate' so that teachers have fair and balanced use of our limited resources. This is an issue, and has been for some time; we are feeling increasing pressures to infuse technology/multimedia into the curriculum.

Technology tools should be ubiquitous in the educational process; they should be readily available at a moment's notice. We are obligated as a district in Massachusetts to infuse technology into the common core curriculum. Unfortunately, when students (and teachers) walk into classrooms at BHS, they and their teachers do not have access to these technologies. If improvements to our classrooms are not supported or funded, Barnstable Public Schools would be ignoring the recommendations of a 21<sup>st</sup> century learning environment and we would be putting our students at risk for failure in higher education or a successful career path. Furthermore, BPS would not be adhering to the national technology standards and Massachusetts Common Core Frameworks.

The following sites are lacking projection devices. In the first column, you will see identified the number of classrooms in the individual school building and the number of remaining rooms that need projections devices. This capital improvement project will only address what is desperately needed at Barnstable High School. Funding requested will provide the removal of old equipment and installation of 20 LED/LCD TV/monitors a year.

Sites	Number of Rooms/	Rooms Funded								
	Need of Projection		Year 2 FY 2016	Year 3 FY 2017	Year 4 FY 2018	Year 5 FY 2019				
Barnstable High School	168/109	20	20	20	20	20				
Barnstable Intermediate School	75/33									
Barnstable United	65/15									
Barnstable West Barnstable	21/9									
Barnstable Community	23/15									
Centerville (including Preschool)	25/10									
Hyannis West	26/3									
West Villages	25/6									
Total LCD monitors	199									
Needed	district wide									

**Project Cost Estimates:** FY 2015 Construction \$ 50,000

**Basis for cost estimates**: BPS Technology has obtained quotes from vendors on the MA state bid list; the cost of the project includes both the dismantling of the old TV's and purchase and installation (mounting) of the LED/LCD monitors, and the installation of any wiring and connections.

**Project Estimated Completion Date:** September, 2019

#### **Project Cost/Description FY 2015 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	Project Description/Components
2015	\$ 50,000	Removal of old equipment/install new LCD monitors and connections
2016	\$ 50,000	Removal of old equipment/install new LCD monitors and connections
2017	\$ 50,000	Removal of old equipment/install new LCD monitors and connections
2018	\$ 50,000	Removal of old equipment/install new LCD monitors and connections
2019	\$ 50,000	Removal of old equipment/install new LCD monitors and connections

Description	Cost
TV Uninstall/Disposal	\$100
Sharp LC 60LE650U	\$1,237
60" Class ( 60.03" viewable ) Aquos 6 Series LED TV - Smart TV - 1080p (FullHD) -	
edge-lit - black	
Sharp - 1YR EXT WTY FOR LCD TV	\$58
Peerless Smart Mount Universal Tilt Wall Mount ST660	\$83
Mounting kit ( bracket, tilt wall plate, security fasteners ) for LCD / plasma panel -	
black - screen size: 37" - 63" - wall-mountable	
Cables To Go Kit. Wall Plate Runner	\$180
VGA, 3.5mm, HDMI	
Quam System 12/8 2x2 Speakers	\$66
Extron 40W AMP	\$225
Speaker Cable 1000FT Box	\$125
C2G 3.5mm Stereo Audio Cable	\$8
Audio cable - mini-phone stereo 3.5 mm (M) - mini-phone stereo 3.5 mm (M) - 6 ft -	
shielded - black	
C2G VGA270	\$13
VGA cable - HD-15 (M) - HD-15 (M) - 6 ft - thumbscrews, 90 degree connector - black	
IOGEAR High Speed HDMI Cable with Ethernet	\$9
Video / audio / network cable - HDMI - 19 pin micro HDMI (M) - 19 pin HDMI (M) - 6.6	
ft - triple shielded	
Certified Installation	\$475
TV / Sound	
Total cost of installation per classroom	\$2,579

Note: The cost of this technology is much less that an interactive white board (\$4,500 installed) in comparison.

**Source of Funding:** General Fund

**Operating Budget Impact:** With the transition to LED/LCD monitors, we can reduce our operational costs and buy fewer replacement bulbs for those projectors that are currently in classrooms.





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#### **APPENDIX A**

#### FISCAL YEAR 2015 CAPITAL BUDGET APPROPRIATION ORDERS

## APPROPRIATION AND LOAN ORDER 2014-071 Water Supply Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$1,050,000** be appropriated for the purpose of funding the pipe replacement and upgrade program for the Hyannis Water System as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$250,000** be transferred from the Water Supply Enterprise Fund Reserves, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$800,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-072 Water Supply Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$200,000 be appropriated for the purpose of Pump Station and Treatment Plant Upgrades as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$200,000 be transferred from the Water Supply Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND LOAN ORDER 2014-073 Water Supply Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### ORDERED:

That the sum of \$583,000 be appropriated for the purpose of funding the New Well Exploration Program as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$583,000, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-074 Water Supply Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$68,400 be appropriated for the purpose of funding the Mary Dunn Tank 2 painting project as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$68,400 be transferred from the Water Supply Enterprise Fund Reserves, and

that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-075**

Water Supply Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$95,900 be appropriated for the purpose of funding the Water Main Upgrades as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$95,900 be transferred from the Water Supply Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-076**

Water Pollution Control Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$450,000 be appropriated for the purpose of funding the Septage Building Capacity Evaluation and Design as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$450,000 be transferred from the Water Pollution Control Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-077**

Sewer Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$132,000 be appropriated for the purpose of funding the construction of a Generator Storage Building as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$132,000 be transferred from the Water Pollution Control Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-078**

Sewer Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$200,000 be appropriated for the purpose of funding a Plant Upgrade Study for Total Organic Compounds and Total Nitrogen Effluent Limits as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$200,000 be transferred from the Water Pollution Control Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

Solid Waste Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$60,000 be appropriated for the purpose of funding a One Ton Dump Truck as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$60,000 be transferred from the Solid Waste Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-080**

Solid Waste Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$110,000 be appropriated for the purpose of funding a New Backhoe as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$110,000 be transferred from the Solid Waste Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-081**

Solid Waste Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$75,000 be appropriated for the purpose of funding a Master Plan as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$75,000 be transferred from the Solid Waste Enterprise Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-082**

Airport Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of **\$50,000** be appropriated for the purpose of funding the Painting of Runways, Taxiways and Roadways as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$50,000** be transferred from the Airport Enterprise Fund Reserves, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

Airport Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$65,000 be appropriated for the purpose of funding a New Dump Truck as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$65,000 be transferred from the Airport Enterprise Fund Reserves, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-084**

Airport Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of **\$200,000** be appropriated for the purpose of funding the Permitting and Design of the Reconstruction of Taxiway C as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$200,000** be transferred from the Airport Enterprise Fund Reserves, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-085**

Airport Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$400,000 be appropriated for the purpose of funding the Permitting and Design of the Reconstruction of Runway 15-33 as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$400,000, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-086**

Airport Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$400,000 be appropriated for the purpose of funding the Permitting and Design of the Reconstruction of Runway 6-24 as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$400,000, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

Airport Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of **\$100,000** be appropriated for the purpose of funding for the Design and Replacement of the East Ramp T-Hanger Roof as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$100,000** be transferred from the Airport Enterprise Fund Reserves, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-088**

Airport Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$650,000 be appropriated for the purpose of funding a New Frontend Loader as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$650,000, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-089**

Airport Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$448,125 be appropriated for the purpose of funding the Design and Construction of the Airport Access Road as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$448,125, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-090**

Airport Enterprise Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$200,000 be appropriated for the purpose of funding the Airport Terminal and Building Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$200,000 be transferred from the Airport Enterprise Fund Reserves, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-091**

Airport Enterprise Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$1,205,000** be appropriated for the purpose of funding the Design and Construction of the Airport Fixed Base Operations Building as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,205,000**, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-092**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$2,000,000 be appropriated for the purpose of funding the Design and Construction of a New Modular Facility for the Barnstable Early Learning Center as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$2,000,000, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-093**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of **\$200,000** be appropriated for the purpose of funding the Barnstable Intermediate School Façade and Roof Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$200,000** be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-094**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of **\$200,000** be appropriated for the purpose of funding the Barnstable High School Fire, Intrusion, and Communications System Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$200,000** be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of **\$204,000** be appropriated for the purpose of funding the Barnstable Public Schools Internet and Digital Resource Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$204,000** be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### APPROPRIATION AND TRANSFER ORDER 2014-096

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$200,000 be appropriated for the purpose of funding the Barnstable United Elementary School Air Conditioning and Chiller Pipe Upgrades as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$200,000 be transferred from the available balance under Council Order 2011-072, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-097**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of **\$100,000** be appropriated for the purpose of funding the Barnstable Public Schools Interior and Exterior Lock and Hardware Upgrades outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$18,936** be transferred from the available balance under Council Order 2011-072, that **\$15,159** be transferred from the available balance under Council Order 2010-109, that **\$12,508** be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that **\$53,397** be transferred from General Fund Reserves, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-098**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$50,000 be appropriated for the purpose of funding the Barnstable Public Schools Kitchen Equipment upgrades as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$50,000 be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$75,000 be appropriated for the purpose of funding the Replacement of Heat Circulating Pumps at the Barnstable United Elementary School as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$75,000 be transferred from the sale of the former Grade 5 school Special Revenue Fund, and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-100**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$140,000 be appropriated for the purpose of funding the Town's Aerial Flyover and Mapping as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$123,618 be transferred from the available balance under Council Order 2012-097, and that \$16,382 be transferred from General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-101**

Capital Trust Fund Capital Improvement Plan (2/3 vote)

#### **ORDERED:**

That the sum of **\$170,000** be appropriated for the purpose of funding the Town's Bicycle Accommodations Program as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$170,000** be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-102**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$288,000 be appropriated for the purpose of funding the Improvements to the Barnstable Police Facilty as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$288,000, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$75,000 be appropriated for the purpose of funding the Remediation of Hydrilla in Long Pond Centerville and Mystic Lake as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$75,000 be transferred from General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-104**

Capital Trust Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$100,000 be appropriated for the purpose of funding the Wequaquet Lake Fanwort Control as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$100,000 be transferred from General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-105**

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of \$140,000 be appropriated for the purpose of funding the Alum Treatment at Lovell's Pond as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$51,241 be transferred from General Fund Reserves, and that \$88,759 be transferred from the available balance in council Order 2012-097, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### APPROPRIATION AND LOAN ORDER 2014-106

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$290,000** be appropriated for the purpose of funding the Construction of the Senior Center Parking Lot Expansion as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$290,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-107**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$301,500 be appropriated for the purpose of funding the Design and Construction of Beach House Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$301,500, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND LOAN ORDER 2014-108 Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$393,500 be appropriated for the purpose of funding the Reconstruction of the Marstons Mills Fish Run as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$67,500 be transferred from the available balance in Council Order 2010-105, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$326,500, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-109 Capital Trust Fund Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$42,000 be appropriated for the purpose of funding the Design of the Improvements to the Mill Pond and Long Pond Fish Ways as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$42,000 be transferred from General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-110 Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$84,000** be appropriated for the purpose of funding the ADA Compliant Improvements to the Restrooms at the Hyannis Golf Course as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$84,000** be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**Capital Trust Fund Capital Improvement Plan (majority vote)** 

#### **ORDERED:**

That the sum of **\$50,000** be appropriated for the purpose of funding the Veteran's Park Strategic Plan and Campus Design as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$50,000** be transferred from General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### APPROPRIATION AND TRANSFER ORDER 2014-112

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$85,000 be appropriated for the purpose of funding the Veteran's Beach Parking Lot Rehabilitation as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$85,000 be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### APPROPRIATION AND TRANSFER ORDER 2014-113

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$55,000 be appropriated for the purpose of funding the Installation of Water and Sewer Service at McKeon Park as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$55,000 be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND TRANSFER ORDER 2014-114**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$3,250,000 be appropriated for the purpose of funding the Public Roads Maintenance Program as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$3,250,000 be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-115**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$285,000 be appropriated for the purpose of funding Guardrail and Sidewalk Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$285,000, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-116**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of \$350,310 be appropriated for the purpose of funding the Comprehensive Dredge Permitting and Strategic Planning as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and to meet this appropriation, that \$9,310 be transferred from the available balance in Council Order 2010-106, and that, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow \$341,000, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### APPROPRIATION AND LOAN ORDER 2014-117

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$215,000** be appropriated for the purpose of funding the Design of the Blish Point Sand Management Improvements as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$215,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

#### **APPROPRIATION AND LOAN ORDER 2014-118**

Capital Trust Fund Capital Improvement Plan (2 / 3 vote)

#### **ORDERED:**

That the sum of **\$185,000** be appropriated for the purpose of funding the Improvements to the Centerville Recreation Building as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$185,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-119 Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$100,000 be appropriated for the purpose of funding the Security Evaluation of Town Facilities as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$100,000 be transferred from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-120 Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of **\$240,000** be appropriated for the purpose of funding the Improvements to the Paine Black House as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$30,970** be transferred from the available balance in Council Order 2011-072, and that **\$57** be transferred from the available balance in Council Order 2010-114, and that **\$103,973** be transferred from the General Fund Reserves, and that **\$105,000** be transferred from the Historic Preservation portion of the Community Preservation Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

## APPROPRIATION AND TRANSFER ORDER 2014-121 Capital Improvement Plan (majority vote)

#### **ORDERED:**

That the sum of \$51,000 be appropriated for the purpose of funding the Burgess House improvement as outlined in the FY 2015 - FY 2019 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that \$51,000 be transferred from the Historic Preservation portion of the Community Preservation Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

								PRINCIPAL AND	INTEREST				
	Issue	Maturity	Original	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments
Purpose	Date	Date	Amount	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Land Acquisition - Hyannis Golf Course	02/15/07	02/15/26	748,000	61,375	59,775	58,175	56,575	54,975	52,975	50,975	49,375	47,775	46,125
Land Acquisition - CAP	06/15/08	06/15/23	365,200	33,690	32,850	32,010	30,930	30,030	28,890	27,930	26,970	26,010	25,020
Advance Refund 6/15/2002 Land Acquisitions BUTAPS	06/14/11	06/15/20	1,102,000	175,950	168,050	163,850	154,650	145,600	140,400	135,200	-	-	-
Total Land Acquisition				271,015	260,675	254,035	242,155	230,605	222,265	214,105	76,345	73,785	71,145
School Facilities Repair		02/15/17	339,000	40,000	33,600	32,400	31,200	-	-	-	-	-	-
BHS Cogeneration		02/15/17	500,000	58,000	56,000	54,000	52,000	-	-	-	-	-	-
High School Construction - Refunded		02/15/19		3,436,650	3,435,050	3,434,250	3,434,050	3,434,250	3,433,500	-	-	-	-
Barnstable Middle School - Refunded 2		02/15/20	1,548,520	199,700	193,500	182,300	176,300	165,300	158,050	150,800	-	-	-
Barnstable Middle School - Refunded 1		02/15/20	7,071,300	913,660	875,260	837,260	799,660	757,660	719,200	681,200	-	-	-
School Upgrades 1		02/15/22	360,000	33,925	32,925	31,925	30,925	29,925	28,675	22,425	21,625	20,825	-
School Facilities Repair & Improvement	02/15/07	02/15/22	660,000	61,550	59,750	57,950	56,150	54,350	52,100	44,850	43,250	41,650	-
School Health & Safety Improvements	02/15/07	02/15/26	478,000	37,911	36,911	35,911	34,911	33,911	32,661	31,411	30,411	29,411	23,380
MME Roof Replacement	02/15/07	02/15/26	750,000	61,585	59,985	58,385	56,785	55,185	53,185	51,185	49,585	47,985	46,335
School Upgrades 2	02/15/07	02/15/27	150,000	13,764	13,364	12,964	12,564	7,164	6,914	6,664	6,464	6,264	6,058
BHMCS Roof	02/15/07	02/15/27	910,000	71,674	69,874	68,074	66,274	64,474	62,224	59,974	58,174	56,374	54,518
School Facility Improvements	06/15/08	06/15/28	916,600	54,213	52,988	51,763	45,188	44,063	42,638	41,438	40,238	39,038	37,800
School Building Improvements	06/15/10	06/15/30	800,000	66,554	65,700	64,845	62,708	56,298	55,337	53,413	52,260	51,106	49,856
School Facility Improvements	06/15/10	06/15/14	1,000,000	255,000	-	-	-	-	-	-	-	-	-
School Facilities Upgrades/Repairs V	06/14/11	06/15/31	884,000	73,669	72,769	71,419	70,069	68,719	66,919	65,119	63,319	61,519	59,719
School Facilities Upgrades/Repairs I	06/14/11	06/15/16	65,000	15,900	10,600	10,300	-	-	-	-	-	-	-
School Equipment	06/14/11	06/15/16	193,000	42,900	37,100	36,050	-	-	-	-	-	-	-
School Parking Lot	06/14/11	06/15/21	250,000	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-	-
School Facilities Upgrades/Repairs IV	06/14/11	06/15/21	332,000	43,650	42,950	41,900	40,850	34,800	33,600	32,400	31,200	-	-
School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	6,550	6,450	6,300	6,150	6,000	5,800	5,600	5,400	5,200	-
School Facilities Upgrades/Repairs II		06/15/26	179,000	19,963	19,663	19,213	13,763	13,463	13,063	12,663	12,263	11,863	11,463
School Facilities Upgrades/Repairs III		06/15/26	190,000	20,513	20,213	19,763	19,313	18,863	18,263	12,663	12,263	11,863	11,463
School Improvement		06/15/26	487,000	49,438	48,738	47.688	46.638	45,588	39,188	37,988	36,788	35,588	34,388
Current Refund School 8/15/01		09/15/14	1,913,700	819,129	289,275	-	-	-	-	-	-	-	_
Advance Refund 6/15/2003 HS Addition & Renovation		09/15/18	58,100	11,793	11,493	11,193	10,843	10,443	8,222	-	-	-	-
Advance Refund 6/15/2003 School Remodel II		09/15/22	193,400	27,601	25,580	24,980	24,280	23,480	22,780	22,180	21,580	17,940	15,300
Advance Refund 6/15/2003 School Remodel I		09/15/22	242,700	33,809	33,029	32,249	31,339	30,299	29,389	28,609	22,806	21,192	20,196
School Roof Repairs		11/15/23	600,000	7,497	75,000	73,500	71,700	70,200	69,000	67,500	65,700	63,900	62,250
HS Library AC Units		11/15/23	450,000	5,623	56,250	55,125	53,775	52,650	51,750	50,625	49,275	47,925	46,688
School Fire & Communications System		11/15/23	200,000	2,499	25,000	24,500	23,900	23,400	23,000	22,500	21,900	21,300	20,750
School Computer Network Infrastructure		11/15/23	189,000	2,345	28,640	24,100	23,500	23,000	22,600	22,100	21,500	15,975	15,563
Intermediate School roof & Façade Design		11/15/23	100,000	1,153	22,200	21,700	21,100	20,600	20,200	22,100	21,300	-	-
School Hot Water Pump Replacement		11/15/23	85,000	985	21,850	21,700	15,825	15,450	15,150			-	
School Gym Bleacher Upgrades		11/15/23	55,000	625	16,150	10,850	10,550	10,300	10,100				
School Grounds Maintenance Equipment		11/15/23	150.000	1.730	33,300	31,550	31,650	30,900	30,300	-		-	-
			110,000	1,730	26,400	26,775	21,100	20,600	20,200	-		-	-
School Kitchen equipment	11/22/13	11/15/23	110,000										
Total Schools				6,524,579	5,938,804	5,563,030	5,424,808	5,250,333	5,172,005	1,550,305	691,998	606,915	515,723

							-	PRINCIPAL AND	INTEREST				
	Issue	Maturity	Original	Payments	Payments								
Purpose	Date	Date	Amount	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Private Road Repairs	06/15/08	06/15/23	1,607,900	150,201	146,456	142,711	137,896	133,884	128,801	124,521	120,241	115,961	111,548
Traffic Calming	06/14/11	06/15/16	50,000	10,800	10,600	10,300	-	-	-	-	-	-	-
Bridge Repair	06/14/11	06/15/21	250,000	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-	-
Sidewalk Improvements	06/14/11	06/15/21	350,000	44,450	43,750	42,700	41,650	40,600	39,200	37,800	36,400	-	-
Baxter Neck Road's Neck Road - Private Way	06/14/11	06/15/26	350,000	35,475	34,975	34,225	33,475	32,725	31,725	30,725	29,725	23,725	22,925
Advance Refund 6/15/2003 Main St. Hyannis Infr. Improv.	04/18/12	09/15/20	39,100	6,198	6,048	5,898	5,723	5,523	5,348	5,198	4,162	-	-
Adavance Refund 6/15/2003 Drainage	04/18/12	09/15/22	193,200	26,228	25,628	25,028	24,328	23,528	22,828	22,228	21,628	18,968	15,504
Private Road Repairs	11/22/13	11/15/23	633,000	7,886	83,730	79,075	77,125	75,500	74,200	72,575	65,700	63,900	62,250
Sidewalk Overlays	11/22/13	11/15/23	190,000	2,379	24,750	24,250	23,650	23,150	22,750	22,250	21,650	21,050	15,563
Bumps River Bridge Repair	11/22/13	11/15/23	120,000	1,490	17,950	17,575	17,125	16,750	11,500	11,250	10,950	10,650	10,375
Guardrail Replacements	11/22/13	11/15/23	60,000	697	16,300	15,925	10,550	10,300	10,100	-	-	-	-
Total Public Ways				317,553	441,437	428,187	401,272	390,960	374,452	353,547	336,456	254,254	238,164
Building - Police Station Construction - 2004-011	06/15/05	06/15/25	400,000	29,720	28,720	27,720	27,020	26,320	25,580	24,820	24,044	23,245	22,445
Old Town Hall		02/15/17	295,000	34,600	33,400	32,200	26,000	-	-	24,020	-	-	- 22,443
Building - Senior Center - Refunded		02/15/17	702,378	95,109	93,709	92,309	90,909	89,309	37,759	11,009	9,609	8,209	6,765
Beach Facilities		02/15/19	270,000	36,990	33,990	30,990	22,990	19,990	16,250	15,000	15,000	15,000	- 0,703
Senior Center - Garden Level		02/15/27	457,000	31,319	30,519	29,719	28,919	28,319	22,569	21,819	21,219	20,619	20,000
Town Building Repairs & Renovations		02/15/27	685,000	47,905	46,905	45,905	44,905	43,905	42,655	41,655	40,855	40,055	39,230
Bismore Park Visitor Center - CAP		06/15/23	150,000	14,038	13,688	13,338	12,888	12,513	12,038	11,638	11,238	10,838	10,425
Bismore Park Visitor Center		06/15/23	465,000	43,516	42,431	41,346	39,951	38,789	37,316	36,076	34,836	33,596	32,318
Municipal Building Improvements		06/15/28	297,000	13,456	13,106	7,756	7,531	7,344	7,106	6,906	6,706	6,506	6,300
		06/15/28	136,000	11,314	11,169	11,024	10,660	9,571	9,407	9,080	8,884	8,688	8,475
Highway Facility		06/15/30	74,000	15,300	- 11,109	- 11,024	10,000	9,371	9,407	- 9,080	- 0,004	- 0,000	- 0,473
Bismore Park Improvements  Municipal Facility Improvements		06/15/14	402,500	84,319	7,719	7,619	7,369	7,119	6,994	6,744	6,594	6,444	6,281
				40,094		39,094	37,844	36,594					
Police Facility  Municipal Facility Upgrades/Repairs - MEA Building		06/15/30	508,000 114,000	21,600	39,594 21,200	20,600	37,844	30,594	35,969	34,719	33,969	33,219	32,406
, , , , , , , , , , , , , , , , , , , ,		06/15/16		59,250		51,500	-	-	-	-	-	-	-
Police Dept. Emergency Generator		06/15/16	271,000		58,150	,	23,680	23,080		20,520		-	-
Building - Town Hall Space - 00-110 Refunded		06/15/21	180,000	26,300	24,880	24,280			21,280		19,760	-	-
Municipal Facility Improvement Building - Town Hall Repairs - 01-087 Refunded		06/15/21 06/15/22	300,000 100,000	38,100 13,060	37,500 12,860	36,600 12,560	35,700 12,260	34,800 11,960	33,600 11,560	32,400 11,160	31,200 10,760	9,360	-
			96,600	12,965		12,814	12,514	12,164	11,764			· ·	7,064
Advance Refund 6/15/2003 Building Improvements		09/15/22 09/15/22	626,900		13,114	81,432	· ·	76,557	71,229	11,414 67,500	11,114	10,814 63,600	-
Advance Refund 6/15/2003 Police Facility Addition				85,332	83,382		79,157				65,700		61,200
Tennis Courts		11/15/23	500,000	6,247	62,500	61,250	59,750	58,500	57,500	56,250	54,750	53,250	51,875
US Customs House upgrades		11/15/23	263,000	3,273	39,480	35,700	29,875	29,250	28,750	28,125	27,375	26,625	25,938
Osterville Community Building Upgrades		11/15/23	200,000	2,499	25,000	24,500	23,900	23,400	23,000	22,500	21,900	21,300	20,750
Police Station Upgrades		11/15/23	168,000	2,095	27,130	23,600	23,000	17,550	17,250	16,875	16,425	15,975	15,563
Town Hall Interior Upgrades		11/15/23	150,000	1,874	18,750	18,375	17,925	17,550	17,250	16,875	16,425	15,975	15,563
Guyer Barn Upgrades		11/15/23	148,000	1,843	21,655	18,250	17,800	17,425	17,125	16,750	16,300	15,850	15,438
MEA Facility Upgrades		11/15/23	131,000	1,619	19,210	17,825	17,375	17,000	16,700	16,325	10,950	10,650	10,375
Beach Facility Design		11/15/23	115,000	1,346	27,550	26,925	26,175	20,600	20,200	-	-	-	-
Pearl St Building Upgrades		11/15/23	114,000	1,408	21,740	17,325	11,950	11,700	11,500	11,250	10,950	10,650	10,375
S&G Facility Roof Repairs		11/15/23	103,000	1,278	15,530	12,250	11,950	11,700	11,500	11,250	10,950	10,650	10,375
Lombard Parking & Ballfield Design	11/22/13	11/15/23	101,000	1,163	23,210	21,700	21,100	20,600	20,200	-	-	-	-

							F	RINCIPAL AND	INTEREST				
	Issue	Maturity	Original	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments
Purpose	Date	Date	Amount	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	884	13,720	11,450	11,150	10,900	5,750	5,625	5,475	5,325	5,188
Highway Operations Facility Construction	11/22/13	11/15/23	66,000	827	12,610	11,350	11,050	5,850	5,750	5,625	5,475	5,325	5,188
Total Public Facilities				780,642	974,120	919,305	803,296	740,357	655,550	569,909	548,462	481,767	439,535
Public Wharves-Dredging-Refunded	02/15/07	02/15/15	155,800	32,400	31,200	-	-	-	-	-	-	-	-
Pleasant St. Dock - 1	06/15/08	06/15/23	350,000	32,286	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926	23,978
Pleasant St. Dock - 2	06/15/08	06/15/23	350,000	32,286	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926	23,978
Boat Ramps - CAP	06/15/08	06/15/23	927,000	86,829	84,659	82,489	79,699	77,374	73,429	70,989	68,549	66,109	63,593
Dredging	06/15/10	06/15/24	419,250	41,075	40,475	39,875	38,375	36,875	36,125	34,625	33,725	32,825	31,850
Dredging - 98-097 Refunded	06/14/11	06/15/16	144,000	38,820	37,100	36,050	-	-	-	-	-	-	-
Boat Ramp Renovations	06/14/11	06/15/21	250,000	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-	-
Dredging East Bay & Blish Point	06/14/11	06/15/21	665,000	87,650	81,250	79,300	77,350	75,400	72,800	70,200	67,600	-	-
Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	58,250	57,450	56,250	55,050	53,850	52,250	50,650	49,050	47,450	45,850
East Bay Dredging	11/22/13	11/15/23	600,000	7,497	75,000	73,500	71,700	70,200	69,000	67,500	65,700	63,900	62,250
Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	1,749	25,420	17,975	17,525	17,150	16,850	16,475	16,025	10,650	10,375
Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	1,639	21,230	17,825	17,375	17,000	16,700	16,325	10,950	10,650	10,375
Total Waterways				452,231	547,996	495,116	446,106	434,406	420,526	407,296	389,291	281,436	272,248
Drainage - Refunded	02/15/07	02/15/14	152,100	31,200	-	-	-	-	-	-	-	-	-
MWPAT CW-04-31	11/09/07	07/15/20	389,216	33,999	33,999	33,999	33,999	33,999	33,999	33,999	33,999	-	-
Coastal Water Quality Improvements	06/15/08	06/15/18	250,000	28,800	27,960	27,120	26,040	25,140	-	-	-	-	-
Lake & Pond Improvements	06/15/08	06/15/18	250,000	28,800	27,960	27,120	26,040	25,140	-	-	-	-	-
Lake Treatment	06/15/10	06/15/25	275,000	27,375	26,975	26,575	25,575	24,575	24,075	23,075	17,475	17,025	16,538
Nitrogen Management CW-04-31-A	03/15/11	07/15/20	211,460	23,330	23,330	23,330	23,330	23,330	23,330	23,330	23,330	-	-
Mill Pond Dredge & Lake Wequaquet Planning	06/14/11	06/15/16	430,000	91,800	90,100	87,550	-	-	-	-	-	-	-
Wastewater Management Planning	06/14/11	06/15/16	600,000	129,600	127,200	123,600	-	-	-	-	-	-	-
Advance Refund 6/15/2003 Drainage	04/18/12	09/15/22	96,700	13,118	12,818	12,518	12,168	11,768	11,418	11,118	10,818	10,468	6,834
Nitrogen Management CW-04-31-B Series 16	06/13/12	07/15/20	539,860	72,687	72,781	72,879	72,977	73,078	73,182	73,288	73,395	-	-
Water Quality Evaluation	11/22/13	11/15/23	230,000	2,859	30,700	30,075	29,325	28,700	28,200	27,575	21,900	21,300	20,750
Sewer Expansion Analysis	11/22/13	11/15/23	70,000	817	16,550	16,175	15,725	15,350	10,100	-	-	-	-
Total Water Quality				484,386	490,374	480,941	265,180	261,081	204,304	192,385	180,917	48,793	44,122
Total General Fund Bonds				8,830,406	8,653,407	8,140,614	7,582,818	7,307,741	7,049,102	3,287,548	2,223,469	1,746,951	1,580,936

		Maturity Date	Original Amount	PRINCIPAL AND INTEREST												
	Issue			Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments			
Purpose	Date			FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023			
ENTERPRISE FUNDS:																
Airport (O)	06/14/11	06/15/31	730,000	55,100	54,500	53,600	52,700	51,800	50,600	54,400	53,000	51,600	55,200			
Hyannis Golf Course Equipment	02/15/07	02/15/17	550,000	70,000	67,600	70,200	67,600	-	-	-	-	-	_			
Hyannis Golf Course Acquisition	02/15/07	02/15/25	3,900,000	312,811	315,211	312,211	314,011	315,411	314,161	312,411	312,611	312,411	311,480			
Total Golf Course				382,811	382,811	382,411	381,611	315,411	314,161	312,411	312,611	312,411	311,480			
Sewer 91-39, Series 1	08/01/01	08/01/13	809,173	45,798	-	-	-	-	-	-	-	-	_			
Sewer 91-39, Series 1		08/01/13	(subsidy)	(10,110)	-	-	-	-	-	-	-	-	-			
Sewer 91-39, Series 3		02/01/17	948,689	82,028	80,331	78,553	76,735	-	-	-	-	-	-			
Sewer 91-39, Series 3		02/01/17	(subsidy)	(31,082)	(29,278)	(27,420)	(25,504)	-	-	-	-	-	-			
Sewer 96-28, Series 3		02/01/17	1,484,449	128,353	125,696	122,915	120,071	-	-	-	-	-	-			
Sewer 96-28, Series 3	08/01/01	02/01/17	(subsidy)	(48,636)	(45,813)	(42,905)	(39,907)	-	-	-	-	-	-			
Sewer 98-27		08/01/19	329,295	30,573	29,013	27,835	30,863	29,398	28,194	26,961	-	-	-			
Sewer 98-27	08/25/04	08/01/19	(subsidy)	(12,658)	(11,897)	(11,313)	(10,664)	(9,985)	(9,441)	(8,491)	-	-	-			
Sewer 98-42 - Series 5	08/25/04	08/01/19	216,429	20,568	19,504	18,695	17,913	17,061	16,357	20,550	-	-	-			
Sewer 98-42 - Series 5	08/25/04	08/01/19	(subsidy)	(8,170)	(7,771)	(7,366)	(7,092)	(6,779)	(1,385)	(550)	-	-	-			
Sewer 98-44	08/25/04	08/01/19	112,262	10,370	10,547	10,109	9,685	9,936	9,530	9,113	-	-	-			
Sewer 98-44	08/25/04	08/01/19	(subsidy)	(4,336)	(4,062)	(3,845)	(3,640)	(3,414)	(3,229)	(2,908)	-	-	-			
Sewer 98-46	08/25/04	08/01/19	1,398,265	132,162	130,162	124,775	124,326	118,418	118,436	118,163	-	-	-			
Sewer 98-46	08/25/04	08/01/19	(subsidy)	(54,012)	(50,597)	(45,928)	(45,295)	(42,564)	(40,301)	(36,199)	-	-	-			
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	36,308	34,957	33,793	32,549	31,771	31,305	33,983	33,040	32,250	30,750			
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	(subsidy)	(13,734)	(13,175)	(12,493)	(12,156)	(11,852)	(11,704)	(10,636)	(10,267)	(9,974)	(9,028)			
Sewer 98-44A	07/14/06	08/01/23	1,582,178	138,487	138,002	133,052	133,084	132,061	126,434	126,831	126,588	121,424	120,681			
Sewer 98-44A	07/14/06	08/01/23	(subsidy)	(57,356)	(55,517)	(53,632)	(51,695)	(49,202)	(46,919)	(45,096)	(42,911)	(40,775)	(38,360)			
Sewer 98-49A	12/14/06	08/01/23	556,458	48,450	47,079	50,291	48,410	46,257	44,287	42,747	45,863	43,989	41,976			
Sewer 98-49A	12/14/06	08/01/23	(subsidy)	(20,187)	(19,581)	(18,901)	(18,168)	(17,277)	(16,478)	(15,872)	(15,082)	(14,307)	(13,463)			
Sewer Collection Expansion	02/15/07	02/15/17	640,000	75,000	72,400	64,800	62,400	-	-	-	-	-	-			
Sewer Turbine Generator	06/15/08	06/15/28	570,000	56,526	55,161	58,796	36,816	35,916	33,776	32,856	31,936	31,016	30,068			
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	326,668	326,669	326,668	326,669	326,668	326,668	326,669	326,668	326,668	326,668			
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	41,637	41,636	41,637	41,636	41,636	41,636	41,636	41,637	41,637	41,636			
Sewer	06/14/11	06/15/21	300,000	38,100	37,500	36,600	35,700	34,800	33,600	32,400	31,200	-	-			
Current Refund Sewer 8/15/01	04/18/12	09/15/14	571,600	198,400	187,775	-	-	-	-	-	-	-	-			
Sewer CW-04-35A Pool 13	06/06/12	07/15/27	1,469,137	107,361	107,350	107,340	107,329	107,318	107,307	107,295	107,284	107,272	107,259			
Total Sewer Enterprise Fund				1,256,509	1,206,093	1,012,060	990,067	790,168	788,073	799,450	675,956	639,199	638,186			
Solid Waste Landfill Closure - 98-24	08/25/04	08/01/18	5,166,301	498,764	497,672	488,252	480,765	464,424	465,350	-	-	-	-			
Solid Waste Landfill Closure - 98-24	08/25/04	08/01/18		(177,929)	(172,623)	(162,841)	(153,957)	(140,492)	(129,348)	-	-	-	-			
Solid Waste Facility	02/15/07	02/15/27	630,000	47,783	46,583	45,383	44,183	42,983	41,483	39,983	38,783	37,583	36,345			
Advance Refund 6/15/2003 Transfer Station Improvements		09/15/22	241,500	32,785	32,035	31,285	30,410	29,410	28,535	27,785	27,035	22,240	20,910			
Total Solid Waste Fund				401,402	403,666	402,079	401,401	396,324	406,019	67,768	65,818	59,823	57,255			

								PRINCIPAL AND	INTEREST				
	Issue	Maturity Date	Original Amount	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments
Purpose	Date			FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Water Co. Acquisition	02/15/07	02/15/27	10,000,000	750,246	748,446	751,046	752,846	748,846	749,346	748,596	751,996	749,396	750,265
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	169,185	169,184	169,185	169,185	169,184	169,185	169,184	169,184	169,185	169,184
DW-09-02 Series 16	06/13/12	07/15/32	910,707	54,685	54,741	54,798	54,856	54,915	54,976	55,039	55,102	55,167	55,233
DWP-11-09 Series 17A	05/22/13	01/15/33	948,146	50,626	57,383	57,451	57,520	57,591	57,663	57,738	57,813	57,891	57,970
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	29,942	33,938	33,978	34,019	34,062	34,104	34,148	34,193	34,238	34,285
Total Water Enterprise Fund				1,054,684	1,063,692	1,066,458	1,068,427	1,064,598	1,065,275	1,064,705	1,068,288	1,065,877	1,066,937
Land Acquisition - Prince Cove	06/15/04	06/15/14	1,850,000	98,895	-	-	-	-	_	_	_	-	-
Marina Bulkhead Repair I		06/15/30	725,000	63,231	62,431	61,231	60,031	58,831	57,231	55,631	54,031	52,431	50,831
Marina Bulkhead Repair II		06/16/30	525,000	37,800	37,400	41,800	41,050	40,300	39,300	38,300	37,300	41,300	40,100
Advance Refund 6/14/2004 Prince Cove Marina Acquisition		09/15/22	864,000	34,445	127,870	124,870	121,370	112,470	109,145	105,310	98,550	95,400	91,800
Total Marina Enterprise Fund				234,371	227,701	227,901	222,451	211,601	205,676	199,241	189,881	189,131	182,731
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	7,469	7,369	7,219	7,069	6,919	6,719	6,519	6,319	6,119	5,919
Sandy Neck Beach House I		06/15/31	966,491	68,156	67,456	71,406	70,206	69,006	72,406	70,606	68,806	72,006	70,006
Sandy Neck Beach House III		06/15/31	217,509	17,356	17,156	16,856	16,556	16,256	15,856	15,456	15,056	14,656	14,256
Total Sandy Neck Enterprise Fund	00/14/11	00/15/51	217,303	92,981	91,981	95,481	93,831	92,181	94,981	92,581	90,181	92,781	90,181
LIVEC 4	02/15/07	02/15/27	1 000 000	70.639	77 620	75 620	72.620	71 620	CO 138	CC C28	C4 C20	62.629	60,575
HYCC 1 HYCC 2		02/15/27	1,000,000 8,000,000	79,638	77,638 621,100	75,638 605,100	73,638 589,100	71,638 573,100	69,138 553,100	66,638 533,100	64,638 517,100	62,638 501,100	484,600
				637,100	· ·								
HYCC 3 HYCC 4		02/15/27	1,600,000	127,420	124,220	121,020	117,820	114,620	110,620	106,620	103,420	100,220	96,920
	06/15/08	06/15/28	6,765,000	547,765	535,935	524,105	508,895	496,220	480,165	466,645	453,125	439,605	425,663
Total HYCC Enterprise Fund				1,391,923	1,358,893	1,325,863	1,289,453	1,255,578	1,213,023	1,173,003	1,138,283	1,103,563	1,067,758
Land Acquisition - MM Airport	06/15/04	06/15/14	11,281,000	619,395	-	-	-	-	-	-	-	-	-
Land Acquisition	06/15/04	06/15/14	502,000	26,025	-	-	-	-	-	-	-	-	-
Land Acquisition - 2004-105 Bonehill	06/15/05	06/15/25	200,000	14,860	14,360	13,860	13,510	13,160	12,790	12,410	12,023	11,623	11,223
Land Acquisition - 06-15-05 - 2004-106	06/15/05	06/15/25	180,000	14,049	13,549	13,049	12,699	12,349	11,979	11,599	11,211	5,811	5,611
Land Acquisition - 06-15-05 - 2004-107 - Hyannis Golf	06/15/05	06/15/25	5,500,000	408,650	394,900	381,150	371,525	361,900	351,725	341,275	330,619	319,619	308,619
Land Acquisition - Archibald	02/15/07	02/15/26	500,000	38,756	37,756	36,756	35,756	34,756	33,506	32,256	31,256	30,256	29,225
Town Hall Renovations	06/15/10	06/15/30	1,332,520	109,694	108,294	106,894	98,394	95,144	93,519	90,269	88,319	86,369	84,256
Land Acquisition Refunded	06/14/11	16/15/22	7,065,000	998,170	964,410	931,310	893,510	856,160	817,960	684,120	624,420	526,240	-
Advance Refund 6/15/2003 land acquisitions	04/18/12	09/15/22	964,600	131,234	128,234	125,234	116,834	113,034	109,709	106,859	104,009	100,684	96,492
Advance Refund 6/15/2004 Landbank Acquisitions	04/18/12	09/15/22	5,385,600	207,514	797,794	774,149	747,584	713,224	682,234	650,624	623,374	597,544	567,732
Advance Refund 6/15/2004 Landbank Acquisitions	04/18/12	09/15/22	227,300	7,750	32,375	31,625	30,750	29,750	28,875	28,125	27,375	26,500	25,500
Total Community Preservation Fund				2,576,097	2,491,672	2,414,027	2,320,562	2,229,477	2,142,297	1,957,537	1,852,606	1,704,646	1,128,658

		Maturity	Original	PRINCIPAL AND INTEREST												
Purpose	Issue			Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments			
	Date	Date	Amount	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023			
Title V - Phase I - 97-1131 Series 6	07/25/02	08/01/20	197,403	10,400	10,400	10,400	10,400	10,400	10,400	10,400	10,200	-	-			
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	9,972	9,972	9,972	9,972	9,972	9,972	9,972	9,972	10,204	10,204			
Title V - Phase III - Pool 11 T5-97-1131-2	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000			
Title V - Phase IV - Pool 11 T5-97-1131-3	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000			
Title V - Phase V - Pool 12 97-1131-4D	07/15/07	07/15/26	200,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000			
Total Title V				50,372	50,372	50,372	50,372	50,372	50,372	50,372	50,172	40,204	40,204			
MWPAT CWS-09-07	07/08/10	07/15/30	3,285,646	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318			
Sewer CWS-09-07-A Series 16	06/13/12	07/15/32	5,348,080	321,133	321,462	321,797	322,139	322,489	322,846	323,212	323,585	323,966	324,355			
Total Sewer Construction Trust Fund				520,451	520,779	521,115	521,456	521,807	522,164	522,531	522,903	523,284	523,673			
Grand Total				16,847,108	16,505,567	15,691,981	14,975,150	14,287,060	13,901,743	9,581,547	8,243,169	7,529,469	6,743,199			

							P	RINCIPAL AN	D INTEREST					
	Issue	Maturity	Original	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	6/30/13
Purpose	Date	Date	Amount	FY 2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	Balance
Land Acquisition - Hyannis Golf Course	02/15/07	02/15/26	748,000	39,445	37,975	36,488	-	-	-	-	-	-	-	652,008
Total Land Acquisition				39,445	37,975	36,488	-	-	-	-	-	-	-	2,030,038
School Health & Safety Improvements	02/15/07	02/15/26	478,000	22,540	21,700	20,850	-	-	-	-	-	-	-	391,921
MME Roof Replacement	02/15/07	02/15/26	750,000	44,655	37,975	36,488	-	-	-	-	-	-	-	659,318
School Upgrades 2	02/15/07	02/15/27	150,000	5,848	5,638	5,425	5,213	-	-	-	-	-	-	114,304
BHMCS Roof	02/15/07	02/15/27	910,000	52,628	50,738	48,825	46,913	-	-	-	-	-	-	830,734
School Facility Improvements	06/15/08	06/15/28	916,600	36,525	35,250	33,975	32,663	31,350	-	-	-	-	-	619,125
School Building Improvements	06/15/10	06/15/30	800,000	48,606	47,260	45,913	44,519	42,981	41,538	40,000	-	-	-	888,894
School Facilities Upgrades/Repairs V	06/14/11	06/15/31	884,000	57,919	56,400	54,825	53,138	46,450	44,850	43,250	41,650	-	-	1,071,719
School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	11,063	10,725	10,375	-	-	-	-	-	-	-	179,538
School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	11,063	10,725	10,375	-	-	-	-	-	-	-	197,338
School Improvement	06/14/11	06/15/26	487,000	33,188	32,175	31,125	-	-	-	-	-	-	-	518,513
School Roof Repairs	11/22/13	11/15/23	600,000	60,750	-	-	-	-	-	-	-	-	-	686,997
HS Library AC Units	11/22/13	11/15/23	450,000	45,563	-	-	-	-	-	-	-	-	-	515,248
School Fire & Communications System	11/22/13	11/15/23	200,000	20,250	-	-	-	-	-	-	-	-	-	228,999
School Computer Network Infrastructure	11/22/13	11/15/23	189,000	15,188	-	-	-	-	-	-	-	-	-	214,510
Total Schools				465,782	308,585	298,176	182,444	120,781	86,388	83,250	41,650	-	- 1	38,825,555
Baxter Neck Road's Neck Road - Private Way	06/14/11	06/15/26	350,000	22,125	21,450	20,750	-	-	-	-	-	-	-	374,025
Private Road Repairs	11/22/13	11/15/23	633,000	60,750	-	-	-	-	-	-	-	-	-	722,691
Sidewalk Overlays	11/22/13	11/15/23	190,000	15,188	-	-	-	-	-	-	-	-	-	216,629
Bumps River Bridge Repair	11/22/13	11/15/23	120,000	10,125	-	-	-	-	-	-	-	-	-	135,740
Total Public Ways				108,188	21,450	20,750	-	-	-	-	-	-	-	3,686,671
Building - Police Station Construction - 2004-011	06/15/05	06/15/25	400,000	21,645	20,825	-	-	-	-	-	-	-	-	302,104
Building - Senior Center - Refunded	02/15/07	02/15/19	702,378	5,295	3,825	2,550	1,275	-	-	-	-	-	-	547,639
Senior Center - Garden Level	02/15/07	02/15/27	457,000	20,000	20,000	20,000	20,000	-	-	-	-	-	-	335,019
Town Building Repairs & Renovations	02/15/07	02/15/27	685,000	38,390	32,550	31,700	30,850	-	-	-	-	-	-	567,465
Municipal Building Improvements	06/15/08	06/15/28	297,000	6,088	5,875	5,663	5,444	5,225	-	-	-	-	-	111,013
Highway Facility	06/15/10	06/15/30	136,000	8,263	8,034	7,805	7,568	7,307	7,062	6,800	-	-	-	151,112
Municipal Facility Improvements	06/15/10	06/15/29	402,500	6,119	5,944	5,769	5,588	5,388	5,200	-	-	-	-	181,206
Police Facility	06/15/10	06/15/30	508,000	31,594	30,719	29,844	28,938	27,938	27,000	26,000	-	-	-	565,531
Advance Refund 6/15/2003 Building Improvements		09/15/22	96,600	132	-	-	-	-	-	-	-	-	-	115,873
Tennis Courts		11/15/23	500,000	50,625	-	-	-	-	-	-	-	-	-	572,497
US Customs House upgrades	11/22/13	11/15/23	263,000	25,313	-	-	-	-	-	-	-	-	-	299,703
Osterville Community Building Upgrades		11/15/23	200,000	20,250	-	-	-	-	-	-	-	-	-	228,999
Police Station Upgrades		11/15/23	168,000	15,188	-	-	-	-	-	-	-	-	-	190,650
Town Hall Interior Upgrades		11/15/23	150,000	15,188	-	-	-	-	-	-	-	-	-	171,749
Guyer Barn Upgrades		11/15/23	148,000	10,125	-	-	-	-	-	-	-	-	-	168,560
MEA Facility Upgrades		11/15/23	131,000	10,125	-	-	-	-	_	-	-	-	-	148,154

			Original	PRINCIPAL AND INTEREST											
	Issue	Maturity		Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	Payments	6/30/13	
Purpose	Date	Date	Amount	FY 2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	Balance	
Pearl St Building Upgrades	11/22/13	11/15/23	114,000	10,125	-	-	-	-	-	-	-	-	-	128,973	
S&G Facility Roof Repairs	11/22/13	11/15/23	103,000	10,125	-	-	-	-	-	-	-	-	-	117,558	
West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	5,063	-	-	-	-	-	-	-	-	-	80,529	
Highway Operations Facility Construction	11/22/13	11/15/23	66,000	5,063	-	-	-	-	-	-	-	-	-	74,112	
Total Public Facilities				314,713	127,772	103,330	99,662	45,857	39,262	32,800	-	-	-	7,676,337	
Dredging	06/15/10	06/15/24	419,250	25,875	-	-	-	-	-	-	-	-	-	391,700	
Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	44,250	42,900	41,500	-	-	-	-	-	-	-	654,750	
East Bay Dredging	11/22/13	11/15/23	600,000	60,750	-	-	-	-	-	-	-	-	-	686,997	
Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	10,125	-	-	-	-	- 1	-	-	-	-	160,319	
Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	10,125	-	-	-	-	-	-	-	-	-	150,194	
Total Waterways				151,125	42,900	41,500	-	-	-	-	-	-	-	4,382,179	
Lake Treatment	06/15/10	06/15/25	275,000	16,050	15,525	_	_	_	_	_	_	_	-	260,838	
Water Quality Evaluation		11/15/23	230,000	20,250	-	-	-	-	-	-	-	_	-	261,634	
Total Water Quality	11/22/13	11/13/23	230,000	36,300	15,525	-	-	-	-	-	-	-	-	2,704,309	
Total General Fund Bonds				1,115,552	554,206	500,244	282,106	166,637	125,650	116,050	41,650	-	-	59,305,088	
ENTERPRISE FUNDS:															
Airport (O)	06/14/11	06/15/31	730,000	53,600	52,250	50,850	54,350	52,663	50,863	54,063	52,063	-	-	953,200	
Hyannis Golf Course Acquisition	02/15/07	02/15/25	3,900,000	314,930	312,750	-	-	-	-	-	-	-	-	3,760,411	
Total Golf Course				314,930	312,750	-	-	-	-	-	-	-	-	4,035,811	
Sewer 98-44A	07/14/06	08/01/23	1,582,178	115,000	_	-	-	-	-	_	-	-	-	1,411,644	
Sewer 98-44A		08/01/23	(subsidy)	(34,430)	-	-	-	-	-	-	-	-	-	(515,894	
Sewer 98-49A		08/01/23	556,458	40,000	-	-	-	-	-	-	-	-	-	499,350	
Sewer 98-49A	12/14/06	08/01/23	(subsidy)	(12,096)	-	-	-	-	-	-	-	-	-	(181,413	
Sewer Turbine Generator	06/15/08	06/15/28	570,000	34,090	32,900	31,710	30,485	29,260	-	-	-	-	-	561,314	
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	326,668	326,668	326,668	326,668	326,668	-	-	-	-	-	4,900,024	
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	41,637	41,637	41,637	41,636	41,637	41,636	-	-	-	-	666,185	
Sewer CW-04-35A Pool 13	06/06/12	07/15/27	1,469,137	107,247	107,234	107,221	107,207	107,193	-	-	-	-	-	1,609,215	
Total Sewer Enterprise Fund				618,115	508,438	507,236	505,997	504,758	41,636	-	-	-	-	11,481,941	
Solid Waste Facility	02/15/07	02/15/27	630,000	35,085	33,825	32,550	31,275	-	-	-	-	-	-	553,823	
•															

		PRINCIPAL AND INTEREST												
	Issue	Maturity	Original	Payments	Payments	s Payments	6/30/13							
Purpose	Date	Date	Amount	FY 2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	Balance
Water Co. Acquisition	02/15/07	02/15/27	10,000,000	749,645	747,975	749,925	750,600	-	-	-	-	-	-	10,499,176
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	169,184	169,185	169,184	169,184	169,184	169,184	169,184	169,184	-	-	3,045,319
DW-09-02 Series 16	06/13/12	07/15/32	910,707	55,302	55,370	55,442	55,514	55,588	55,663	55,740	55,818	55,899	55,981	1,105,829
DWP-11-09 Series 17A	05/22/13	01/15/33	948,146	58,050	58,133	58,217	58,303	58,391	58,481	58,572	58,666	58,762	58,860	1,154,082
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	34,332	34,382	34,431	34,482	34,534	34,587	34,641	34,698	34,754	34,812	682,557
Total Water Enterprise Fund				1,066,513	1,065,044	1,067,199	1,068,083	317,697	317,916	318,138	318,366	149,414	149,653	16,486,964
Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	44,231	43,050	41,825	40,513	39,200	37,800	36,400	-	-	-	858,931
Marina Bulkhead Repair II	06/15/11	06/16/30	525,000	38,900	37,888	36,838	40,713	39,400	38,000	41,600	-	-	-	667,988
Total Marina Enterprise Fund				83,131	80,938	78,663	81,225	78,600	75,800	78,000	-	-	-	2,647,044
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	5,719	5,550	10,375	-	-	-	-	-	-	-	89,281
Sandy Neck Beach House I	06/14/11	06/15/31	966,491	68,006	71,319	69,394	72,331	70,081	67,681	70,281	67,681	-	-	1,256,838
Sandy Neck Beach House III	06/14/11	06/15/31	217,509	13,856	13,519	13,169	12,794	17,419	16,819	16,219	15,619	-	-	278,875
Total Sandy Neck Enterprise Fund				87,581	90,388	92,938	85,125	87,500	84,500	86,500	83,300	-	-	1,624,994
HYCC 1	02/15/07	02/15/27	1,000,000	58,475	56,375	54,250	52,125	-	-	-	-	-	-	923,038
HYCC 2	02/15/07	02/15/27	8,000,000	467,800	451,000	434,000	417,000	-	-	-	-	-	-	7,384,300
HYCC 3	02/15/07	02/15/27	1,600,000	93,560	90,200	86,800	83,400	-	-	-	-	-	-	1,476,860
HYCC 4	06/15/08	06/15/28	6,765,000	410,298	395,975	381,653	366,909	352,165	-	-	-	-	-	6,785,121
Total HYCC Enterprise Fund				1,030,133	993,550	956,703	919,434	352,165	-	-	-	-	-	16,569,319
Land Acquisition - 2004-105 Bonehill	06/15/05	06/15/25	200,000	10,823	10,413	-	-	-	-	-	-	-	-	151,053
Land Acquisition - 06-15-05 - 2004-106	06/15/05	06/15/25	180,000	5,411	5,206	-	-	-	-	-	-	-	-	122,523
Land Acquisition - 06-15-05 - 2004-107 - Hyannis Golf	06/15/05	06/15/25	5,500,000	297,619	286,344	-	-	-	-	-	-	-	-	4,153,944
Land Acquisition - Archibald	02/15/07	02/15/26	500,000	28,175	27,125	26,063	-	-	-	-	-	-	-	421,644
Town Hall Renovations	06/15/10	06/15/30	1,332,520	82,144	79,869	77,594	75,238	72,638	70,200	67,600	-	-	-	1,486,435
Total Community Preservation Fund				424,172	408,957	103,657	75,238	72,638	70,200	67,600	-	-	-	22,040,039
Title V - Phase III - Pool 11 T5-97-1131-2	10/31/05	07/15/25	200,000	10,000	10,000	10,000	-	-	-	-	-	-	-	130,000
Title V - Phase IV - Pool 11 T5-97-1131-3	10/31/05	07/15/25	200,000	10,000	10,000	10,000	-	-	-	-	-	-	-	130,000
Title V - Phase V - Pool 12 97-1131-4D	07/15/07	07/15/26	200,000	10,000	10,000	10,000	10,000	-	-	-	-	-	-	140,000
Total Title V				30,000	30,000	30,000	10,000	-	-	=	-	-	-	583,184
MWPAT CWS-09-07	07/08/10	07/15/30	3,285,646	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	-	-	3,587,723
Sewer CWS-09-07-A Series 16	06/13/12	07/15/32	5,348,080	324,754	325,161	325,576	326,001	326,434	326,878	327,331	327,793	328,267	328,749	6,493,928
Total Sewer Construction Trust Fund				524,072	524,479	524,894	525,319	525,752	526,196	526,649	527,112	328,267	328,749	10,081,651
Grand Total				5,382,884	4,654,824	3,944,931	3,638,151	2,158,410	1,292,761	1,246,999	1,022,490	477,681	478,402	148,603,524



## The Town of Barnstable

## Comprehensive Financial Advisory Committee (CFAC)

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#### **CFAC Committee:**

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Laura Cronin

#### **Members:**

Robert Ciolek Ralph Krau Henry McClean Jacqueline Michelove Gregory Plunkett Lillian Woo

#### **Staff Liaison:**

Mark Milne

#### **Councilor Liaison:**

John T. Norman

# CFAC FY 2015 – FY 2019 Capital Improvement Plan Report

Prepared by:

**CFAC CIP Subcommittee** 

Ralph Krau

**Greg Plunkett** 

**Robert Ciolek** 

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#### **INTRODUCTION**

In accordance with the Town of Barnstable Charter, Part VI, Section 6-5, and Chapter 241-18 of the Administrative Code, the Comprehensive Financial Advisory Committee (CFAC) is pleased to offer our findings and recommendations to the Town Manager and Town Council on the proposed FY 2015 Capital Budget and the FY 2015 – FY 2019 Town of Barnstable's Capital Improvements Plan (CIP).

This report briefly describes the methodology used by CFAC to review, analyze and prioritize the capital project requests submitted by the Town Departments for Council approval.

#### **METHODOLOGY**

CFAC reviewed 102 project requests (Attachment 1) submitted by the Town Departments. These consisted of 38 Enterprise Fund projects representing a total 5-year estimate of \$59,877,176 and 63 General Fund projects representing a total 5-year estimate of \$61,615,521. FY15 – FY19 Capital Funding Requests total \$121,492,691. CFAC notes that one proposed project, the creation of a boat pump-out station, has already been approved by the Town Council in January, 2014.

The review was conducted by a three member CFAC subcommittee made up of Ralph Krau, Gregory Plunkett and Robert Ciolek. The initial analysis consisted of rating each proposed project based on specific Evaluation Criteria as shown in Attachment B. This published Evaluation Criteria for rating projects utilizes a set of working principles that guide the objective assessment of each project:

- 1. Projects providing the greatest benefit to the greatest number of town residents were prioritized higher than those that benefited smaller groups.
- **2.** Projects that will likely be partially or wholly revenue self-sustaining or have a positive economic impact received a higher rating than those that offer neither.
- **3.** Projects having a direct effect on the protection or enhancement of the town's natural resources are scored higher on the principle that preservation of the environment on Cape Cod has direct bearing on the economic viability of our community and on our quality of life.
- **4.** Projects that demonstrate an intention to provide proactive maintenance to existing assets are rated higher under the well established principle that doing so is, in the long run, a fiscally wise and conservative approach to asset management.

Each subcommittee member independently rated all projects and the results were then consolidated to define an average project score for each project. This process is identical to that used by the Town Task Force which consists of representatives of each Town Department to also score the projects. The projects were then prioritized based on the CFAC average scoring as shown in Attachment A. As there are many General Fund projects competing for historically limited funding, in 2012 the Town adopted, and CFAC supported, a policy to increase the amount of funds available for bond issuances

for Capital Planning each year by 2.5%. The additional funds allow for an increase in spending for the 2015 CIP to a range of \$8m to \$10 M, depending on the Town's needs.

The subcommittee's final work product was reviewed by the full CFAC and then approved for transmittal to the Town Manager and Town Council.

### III. COMMITTEE RECOMMENDATIONS

### A. Capital Budget Process – General Comments:

1. One criteria for eligibility as a major capital project is that a proposed project "shall have a total cost of \$250,000 or more". Such projects shall have an expected service life of five years or more". Such projects will normally be funded through a borrowing.

Another category of capital spending is for "capital maintenance projects covering the repair or replacement of existing buildings, construction of new buildings, land acquisitions, any nonrecurring capital expenditure, or other capital purchase that costs \$50,000 or more and has a life expectancy of three years or more." These small capital projects will be funded from cash reserves within the Capital Trust Fund. See Town Code, §401-36. For several reasons the committee suggests that the Administration consider revising this criteria to make it more precise. More specifically, the criteria for smaller cost capital goods should be focused on rolling stock and building repairs, and not refer to "construction of new buildings" or "replacement of existing buildings".

- (a). Some projects do not appear to meet of the spirit if not the letter of the cost criteria at all. For example, proposed project RS 15-01 asserts payment of \$75,000 for hydrilla removal in several ponds is needed. Again, leaving aside whether this is inherently a capital project, the two years total to just \$150,000. It fails to meet the criteria for less costly projects as well.
- (b). There are, understandably, several requests for replacements of heavy equipment vehicles, most of which are individually less than \$250,000 though above the lesser standard for capital projects. The Administration may wish to consider creating a parallel but separate capital budget and acquisition process that just addresses capital equipment needs for rolling stock and for certain types of small dollar equipment-related assets. The Town's Finance Director may wish to consider acquiring such items by means of tax-exempt lease financing.
- 2. As alluded to in the previous comment, in the opinion of the committee a few of the proposed projects are arguably not appropriate for the capital budget. Rather, they are repetitive operating activities that should more properly be budgeted in a department's operating budget. A good example is line painting at the airport, project AIR 15-01. Another example is proposed project RS 15-04, Fanwort Control, which is surveying and then applying a chemical treatment to remove an invasive freshwater plant. No capital asset will be created as a consequence of spending the money. If it needs to be done, it should be paid for via the department's annual operating appropriation. Staff should carefully review proposed capital funding requests to insure that they are, in fact, appropriate for the capital budget.

It might be argued that a portion of the surplus fund balance in an Enterprise Fund is available cash and, as such, is similar to an operating appropriation though authorized for use through the capital budget process. A better and more transparent practice would be, in our opinion, to simply add the presumably needed item to a department's proposed operating budget and use surplus Enterprise Fund dollars for larger capital projects.

3. In preparing the proposed capital budget, budget staff should (a) insure that the dollar amounts total correctly and (b), more important, that the department has made a concerted effort to estimate the total true expected cost of the capital project. In a few cases, the numbers appear to be incorrect; in a few cases it is unclear what the ultimate total cost of a program or project will be.

An example of the first case is CSER 15 – Golf 2, which asserts that the cost of certain golf equipment is \$154,835: But, totaling projected annual expenditures on the project form result in a different total of \$164,826.

As to the second situation, in a few cases a department will not necessarily know or be able to estimate the total cost of a planned capital expenditure or its impact on the Town's operating budget. In such cases, it is suggested that the capital budget request, if approved, only be for an initial study or design of a project, with no funding construction approved until the study or design is complete and approved and a reasonably accurate estimate of final construction cost is known. This cautionary standard, if adopted, would prevent a situation of committing dollars for a project of unknown cost and length and avoiding "buyer's remorse" once final costs are realized.

For example, Project PW 15-08 conflates sidewalk construction with laying a sewer line, two different capital projects with two different purposes. The new sidewalk may be needed, but approving the project should not, in the committee's judgment, mean that the Town is committing to begin a sewer project that is unknown at this time, and one that will not be used until a final wastewater plan is completed. Given the ongoing review of the Town's wastewater needs, no spending commitment to a sewer project should be made until there is an approved comprehensive, Town-wide wastewater construction plan. Another example might be PW 15-13, Town Hall Parking Lot Improvements. The project lists \$174,325 for design and \$622,590 for construction. Perhaps it is more prudent to not commit funding for construction (or possibly even design) until the Town has completed its comprehensive study of Town parking needs, which is currently underway. A final example is PW 12-23, 200 Main Street Facility Upgrade. Reading the program suggests, but does not state, that there will be unstated "phases" beyond the mentioned Phase 1 project. No commitment should be made for construction until the design work is complete. In sum, even though the proposed capital budget is for a five-year period, some capital projects cover longer periods of time. The capital budget process should include a clear estimate of all costs and such estimates should be reviewed and agreed to by the Town budget office.

Related to this issue is the observation that it is likely that Town departments give short shrift to the requirement of estimating positive or negative financial impacts of a project on the Town operating budget. There are many examples of requests that appear to not fully (if at all) analyze operating budget impacts. For example, in the Public Works department there are a number of vehicle requests to replace old equipment which, if replaced, should reduce maintenance and repair costs associated with the replaced vehicles. Also there are building renovation projects that do not estimate savings on future avoided repairs and probable energy savings. The committee suggests that the Town budget department be the entity responsible for completing that section of the capital budget request, in consultation with the requesting department.

### B. Capital Budget Process – Specific Project Comments:

- 1. Airport, Projects 15-7, 15-13 and 15-11. All of these projects involve new capital expenditures for buildings (new or repairs to existing structures) used by owners of private planes who utilize the services of the Barnstable Airport. While a significant portion of the cost *may* be paid by Mass DOT, there is also a local share. The airport commission should review the feasibility of having the local share directly paid by private users and tenants of airport facilities and not, directly or indirectly, by any other party or by surplus funds in the Airport Enterprise Fund.
- 2. Water Pollution Control, Projects 2 and 3. Project 2 asks for \$132,000 to build a storage shed for certain pieces of equipment. Division management should, if they have not done so, evaluate the feasibility of heavy duty tarpaulins or pre-fabricated sheds prior to building a new structure. Project 3 requests the expenditure of \$10.8 million for a major upgrade of the existing wastewater treatment facility. The project will evaluate, make recommendations, and ultimately design and construct improvements to the Water Pollution Control Facility (WPCF) to meet new Commonwealth of Massachusetts effluent discharge requirements. The project request then goes on to assert:

"TOC (Total Organic Compounds) Effluent Limit of 3 mg/l is a State regulation, but is not currently enforced. However, conservation groups are initiating lawsuits that are expected to result in State enforcement. The Town must be prepared to comply with this State regulation or face the potential of costly fines." [Emphasis added].

The committee is unclear as to the significance of this assertion and is unaware of any litigation on Cape Cod with respect to this state-imposed effluent limitation. That said, *if* there is an imminent threat of litigation and *if* the Town is at imminent risk of major fines (not to mention potential threats to drinking water and public health), this project deserves a very high priority. As there is insufficient information in the project request, the committee suggests that the Administration further review this project request. If litigation, fines and threats to public health are more probable than not, it should receive the highest priority for funding. If not, the committee believes that this specific project be tabled and subsumed into the overall review of the Town's comprehensive wastewater plan, currently underway.

3. Community Services Department, Projects 15-1, 15-3, and 15-11. 15-1 is an ongoing project to fund various improvements at Town beach facilities. This multi-year project is a continuation of the Town's beach program to keep bath houses updated on the interior & exterior, and be fully operational. This is an expensive program (approximately \$10 million) and the committee has two suggestions. First, a past approved capital budget approved \$115,000 for the initiation of design and permitting services for the Craigville Beach bathhouse. Additional funds in the amount of \$346,000 are requested for permitting and the completion of design documents and contract administration services for the facility. While the language of the request is not clear, the committee is concerned about this very large cost increase for design services raises concern with respect to project management and oversight. The Administration should consider a review of the situation to determine the reason for the increase and the adequacy of project oversight.

In addition, the committee suggests that this project not go forward without a discussion of whether a significant portion of the project cost should be paid for by increasing the cost of beach

use permits, paid by the principal beneficiaries of the program, with the proceeds targeted for this project. Finally, it is observed that the Town is considering the use of \$500,000 from Community Preservation funds to acquire a small, minimally used path on Long Beach Road. Perhaps a better use for the funds would be to defray some of the costs of the Craigville Beach bathhouse, a much more popular and populous attraction.

Lopes Field, project 15-3, requests funds in the amount of \$650,000<sup>1</sup> to rebuild the Lopes ball field in Hyannis. The committee recommends that the Administration consider recovering a portion of the cost of the project by increasing fees associated with using the field. A similar comment is applicable to Project 15-11, which requests \$1,144,953 to upgrade the Lombard Field facilities and parking lot.

4. Growth Management Department, Project GMD-ED-1 and GMD-ED-2. The first project is an effort to expand the number of artist shanties at Bismore Park by five new units. The total amount requested is \$94,751, though the details of the request seem to indicate the cost is expected to be \$116,546. The committee notes that the expected construction cost of each shed is presumed to be \$6,790. A quick review of similar 9 X 12 pre-fabricated sheds by reputable shed builders (Reeds Ferry and Sears), shows prices of \$4,669 and \$3,349 respectively. The committee recommends that the department conduct a rigorous search for less expensive but seemingly adequate artist sheds from readily available suppliers prior to a decision to build sheds from scratch.

Project 2 requests \$170,000 to increase and make safe bicycle traffic on various roads. The money is to be used for bicycle signage, street markings and bike racks. The committee believes the Town should consider requiring a bike permit as a means to raise funds for projects that primarily benefit one class of users in order to raise funds for this program.

<u>5. Regulatory Services Department, RS 15-01, 15-02, 15-03, 15-04.</u> The Administration should closely review all four projects as they appear to be more suited for the department's operating budget than the Town's capital budget, as previously noted on the comment on page 1. None result in the construction of a capital asset, though they may be important for a range of other reasons.

Project 15-03 is a borderline case as it involves the de-construction of firing range berms. Mostly, though, the project is for lead removal. The committee believes the Town should consider a temporary surcharge to permits issued to users of the firing range as a means to raise funds for projects that primarily benefit one class of users in order to raise funds needed for this program.

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<sup>&</sup>lt;sup>1</sup> The committee also notes hundreds of thousands of dollars for design fees for projects within the Community Services Department, some for relatively straightforward construction projects (Project 15-3, 15-4, 15-11) and other projects a little more complex (Projects 15-5, 15-7 and 15-13, for example). The committee wonders whether the department should design at least the simpler projects (ball field reconstruction, parking lots, for example) in-house or, if there is no department personnel available, by other Town departments which might share design/planning staff, particularly as some department projects geographically overlap. See Community Services Department Project 15-16, Bismore Park Phase II – Site Improvements, where the design work will be contracted out and Growth Services Department Project 15-1 HyArts Shanties Expansion (at Bismore Park) where the design work is to be completed, in part, in-house.

# 6. Public Works Department, PW 15-7, 15-14, 15-15, 15-16, 15-17, 15-18, 15-19, 15-21, 15-22, 15-23.

The Public Works Department wishes to construct a boat pump-out facility for Hyannis Harbor at a cost of \$152,600. As noted in several other projects, the committee believes the Town should consider requiring a user fee of some type for projects that primarily benefit one class of users in order to raise funds for this program. This project will serve the needs of private boat owners and users should pay for this project.

A number of projects request a significant amount of money to repair structures owned by the Town, such as the Customs (Trayser) House, Trayser Carriage House, Paine Black House, Burgess Barn, the Old Jail building, all of which are little used. The committee understands and has some appreciation for the historic significance of some of these buildings but believes the Administration should review the continued spending on buildings that are minimally used, at best. In some cases, the Town should investigate the possibility of turning the building over to the federal government or a private historical association to own and maintain. In other cases, the Town should determine if there is a practical re-use for the building so that the money is spent for a more practical purpose.<sup>2</sup> In a few cases the building may be torn down after meeting any requirements of the Massachusetts Historical Commission. Preserving buildings is a worthwhile venture but not if the buildings have no practical use and are of minimal historic significance.

### C. Capital Budget Suggestions – Long-Term Recommendations:

The committee suggests three larger in scope, capital budget recommendations. They are:

<u>1. New Public Safety Campus.</u> The Police Department's request for capital funding in the amount of \$508,168 for proposed Project POL 15-1 notes as follows:

"The Police Department facility was constructed over 30 years ago. The original building equipment and systems are coming to the end of their useful life and need upgrading. Many parts of the existing building are in need of replacement and renovation."

In the Community Services Department, Projects CSD 15-14 and 15-15 requesting funding of \$1,078,686, the following comments are made:

"The Marine and Environmental Affairs facility has seen no major renovation work since its construction in 1979. An ongoing program of renovations is necessary in order to protect the Town's building assets and assure reliability in the future for this unit's operation. Many identified improvements are life safety and code compliance issues... This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement...The Marine and Environmental Affairs building currently is insufficient in size to accommodate existing staff and equipment."

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<sup>&</sup>lt;sup>2</sup> See, for example, PW 15-23 from the Public Works Department which seeks funding, in part, for records storage at the 200 Main Street facility. Perhaps one of the underutilized buildings could be used for this purpose

Given the age of the various buildings, their current condition and the highly likely need to spend increasing amounts of money to repair, rehabilitate, and expand and to meet current program requirements, it is very likely that annual requests for more and more capital funds for these aging structures will become apparent.

The Committee recommends that the Administration conduct a feasibility study to examine the creation of a new Town of Barnstable "Public Safety Campus" on the footprint of the current site of the police facility, which would consolidate buildings for the Police Department and the Marine and Environmental Affairs Division onto one campus. Presuming such a campus can be constructed the Town should consider selling the parcel(s) occupied by the Marine and Environmental Affairs Division – an attractive business location given its location proximate to Rte. 132 and the downtown corridor – and use the proceeds to defray a portion of the cost of constructing the envisioned Public Safety Campus.

**2. School Department Capital Budget.** The Town should consider allocating an amount of capital dollars to the School Department, and enable the School Committee to determine which of its capital projects should be funded or not funded. This approach is similar to its current practice for road resurfacing projects which allocate \$3.25 million to the Public Works Department with the department selecting the streets in need of repair. Such as, an arrangement is also philosophically consistent with the division of annual town revenue to pay for the school operating budget.

The School Department has its own elected leadership which is accountable to the public for its actions. In addition, the school department is in the best position to prioritize its capital spending decisions. With a few common sense exceptions, the Town should, based upon historic financial data and as a matter of a Council-approved policy, allocate an amount of capital funds for the School Department's capital needs, with final decisions as to specific projects to be made by the School Committee in consultation with the School Superintendent. The School Department should reduce its decisions to writing via a publicized capital budget document and should discuss the proposed capital budget with Town officials in a manner similar to the practice followed for the School Department's operating budget.

Exceptions to this policy would be any decision to build a new school, sell a closed school or to significantly expand an existing school, which should be a joint decision with the Town Administration. In addition, decisions for the re-use or sale of closed school buildings should occur only after consultation with the Town Administration. No capital project or program (or group of project or programs) which would likely exceed the allocated amount would be funded by the Town unless the Town agreed to the higher amount.

3. Development of a Town-wide Capital Budget: Each year the Budget Office of the Administrative Services Department produces a very well regarded and award winning Operating Budget document. The Administration should consider having that office also produce a similar quality Capital Plan and budget document after the Administration has examined and made final decisions with respect to individual Department or Division requests. In addition to its review and determination of recommended capital projects, the Administration's proposed Capital Budget should also discuss the Administration's capital priorities in some detail and provide relevant information concerning the Town's long-term capital needs whether found in the proposed budget or

not. The committee was interested in what was contained in the proposed set of capital expenditures but also noted what was *not* discussed in the document. No mention is made with respect to its required comprehensive wastewater plan, its on-going transportation study or the reuse of the former National Guard armory. There is no discussion of long-discussed and costly road improvements along Sea and South Streets, possible consequence of the repair of private roads or any infrastructure improvements needed as a consequence of planned development projects.

One argument for not including such items is that the capital program covers just five fiscal years, a traditional benchmark for municipal capital plans. Another argument might be that some of the projects mentioned are not yet "ripe" for inclusion in the capital project. While both arguments may be correct, they also reinforce our recommendation for the creation of a more comprehensive and informative Capital Budget which contains a section discussing the *long-term* capital needs of the Town, the compelling case for the program, the estimated cost of those long term projects and potential strategies to pay for them.

Finally, while it is interesting and occasionally insightful for CFAC to review the 100 or so individual capital budget submissions from Departments and Divisions, the committee suggest that a better approach would be to spend its limited time reviewing a comprehensive and final proposed Capital Budget which has first been approved by the Town Administration. There is little benefit for CFAC to examine and rank proposals that are not recommended by the Administration; better to subsequently review the capital projects recommended and justified by the Town Manager and the Town's Finance Director.

## IV. SUMMARY

The purpose of this CFAC CIP Subcommittee review of the FY 2014 Capital Budget and the FY15 – FY19 Capital Improvements Plan is to provide the Town Manager and Town Council with an independent review of the town capital funding needs and project priorities as well as the process for prioritizing those needs. It is CFAC's belief that this review will help:

- 1. Facilitate better planning in determining the difference between capital needs and operating budgets.
- 2. Maintain a strong credit rating, control over tax rates, and avoidance of sudden changes in debt service obligations.
- 3. Help identify the most economical means of financing projects.
- 4. Focus the community on strategic capital objectives and Town fiscal capacity.
- 5. Help the public understand the process by which their tax dollars are spent.
- 6. Encourage careful project and long-term planning and design so as to avoid costly mistakes and help the community reach its long term capital goals.

CFAC would like to thank, Mark Milne, Town Finance Director for his able advice and guidance in the CIP Process.

			RALPH	ВОВ	GREG	AVG SCORE	CFAC RANKING		Staff Ranking
Priority	Amount	Title							
<b>AIRPOR</b>	T (Enterpri	se Funds)							
Priority	Amount	Title							
							STAFF		
1	250,000	Annual Painting Contract Runways , Taxiways , & Roadways	20.00	15.00	20.00	18.33	SCORE	24.29	12
2		Replace Dump Truck w/Sander	19.00	16.00	16.00	17.00		22.94	
3		Design & Construct Taxiway C	19.00	20.00	19.00	19.33	8	23.94	
<u>4</u> 5		Design & Construct East Ramp Design & Construct Runway 15-33 & Taxiway E	19.00 19.00	20.00	19.00 19.00	19.33 19.33	9 10	23.82	9
6		Design Runway 6-24 (Construct FY17)	19.00	20.00	19.00		11	24.65	,
7		Design & Replace East Ramp T-Hangar Roof	19.00	13.00	16.00	16.00		22.06	
8	650,000	Replace Frontend Loader	19.00	19.00	12.00	16.67	1	23.00	
9	792,125	Improve Airport Access Rd on East Side	19.00	18.00	14.00	17.00		24.35	10
10		Airport Terminal and Building Improvements	19.00	23.00	16.00		12	22.47	
11		Airport Fixed Base Operations (FBO) Building	20.00	21.00	10.00			21.76	
12 13		Design & Construct Vehicle Storage Building  Design & Construct New T-Hangar	18.00 16.00	18.00 17.00	13.00 10.00	16.33 14.33		22.06 21.24	
14	1	Design & Construct New 1-hangar  Design & Replace Airfield Vault Emergency Generator	16.00	17.00	11.00			23.29	
15		Replace Aircraft Rescue Fire Fighting Equipment	18.00	20.00	12.00	16.67		23.12	
16A	·	Replace Airfield Equipment	17.00	17.00	10.00	14.67	1	22.65	
16B	110,000	Replace Airfield Tractor w/Mower Deck	16.00	17.00	10.00	14.33		22.29	
17	2,750,000	Permit, Design, Reconstruct Taxi Ways B, B1 & D	18.00	19.00	10.00	15.67		22.82	
18	260,000	Replace SRE/ARFF	17.00	15.00	10.00	14.00		22.76	
19		Airfield Lighting Control System Fiber Optic Network	18.00	18.00	12.00	16.00		22.82	
20		Vegetation Airport Fence line Buffer Zone	16.00	15.00	17.00	16.00		23.00	
21	-	Airport FAA Master Plan & Utilities GIS Survey	17.00 18.00	19.00 19.00	17.00 15.00	17.67 17.33		22.00	
23	80,000	Land Acquisition Runway 33 RSA/RPZ FAA FAR Part 150 Noise Exposure Map	18.00	16.00	16.00	16.67		21.65	
23	80,000	TANTANT AT 150 Noise Exposure Map	10.00	10.00	10.00	10.07		21.03	
COLE /E	nterprise F	unds)							
•	Amount	Title	_						
Priority 1		ADA Compliant Restrooms - Hyannis Golf Course Clubhouse	21.00	15.00	15.00	17.00		22.88	
2	1	Mowing Equipment Lease	21.00	17.00	12.00	16.67		22.00	
	20.7,020								
HYCC (F	nterprise F	unds)							
Priority	Amount	Title	_						
1	229,330	Mechanical Upgrades	15.00	17.00	13.00	15.00		23.00	
							1		
SOLID V	VASTE (Ent	erprise Funds)							
Priority	Amount	Title				1			
1	60,000	Replace 1 Ton Dump Truck	25.00	20.00	8.00	17.67		23.00	
2	1	Replace Backhoe	26.00	21.00	6.00	17.67		23.18	
3	280,000	Master Plan	24.00	17.00	12.00	17.67		24.24	11
WATER	<b>SUPPLY (E</b> i	nterprise Funds)							
Priority	Amount	Title							
1	5,250,000	Pipe Replacement & Upgrade Program	32.00	29.00	16.00	25.67	1	28.88	1
2		Wells Pump Station & Treatment Plant Repair and Upgrade	27.00	28.00	17.00	24.00	3	27.76	2
3		New Well Exploration Program	28.00	30.00	17.00	25.00	2	27.06	3
<u>4</u> 5	,	Paint/Repair Large Tank Mary Dunn 2	26.00	27.00	18.00	23.67	5 6	26.59	5
5	1,055,900	Water Main Upgrade Main St HY to Winter St	26.00	25.00	16.00	22.33	ь	26.82	4
W/VTED	POLLUTION	N CONTROL (Enterprise Funds)							
Priority	Amount	Title	_						
1	3,950,000	Septage Building Capacity	26.00	28.00	17.00	23.67	4	26.32	7
2		Generator Storage Building - 2015 Design (2016 Construct)	23.00	15.00	12.00	16.67	7	24.88	8
3	1	Plant Upgrades	23.00	23.00	14.00	20.00	7	26.76	6
		Total Enterprise Funds	_			18.04		23.79	

2014 (	CIP CFA	C Review - All Projects							
			RALPH	вов	GREG	AVG SCORE	CFAC RANKING		Staff Ranking
Priority	Amount	Title							
ADMINI	STRATIVE S	SERVICES DEPARTMENT (General Funds)							
Priority	Amount	Title							
1	208,000	Arial Flyover & Mapping	22.00	23.00	23.00	22.67	4	22.82	
2	86,500	Summer Flyover of Waterways	20.00	23.00	11.00	18.00		22.00	
	294,500	Sub-Total Administrative Services (General Funds)							
сомми	JNITY SERV	ICES DEPARTMENT (General Funds)							
Priority	Amount	Title							
1	10,042,872	Beach House Construction/Renovations	20.00	21.00	16.00	19.00	8	24.47	6
2	290,160	Senior Center Parking Lot Expansion	22.00	9.00	20.00	17.00		22.53	
3	650,000	Lopes Field Design & Construct	21.00	13.00	19.00	17.67		21.65	
4	60,000	Veterans Park Strategic Plan & Campus Design	21.00	19.00	8.00	16.00		22.35	
5	350,000	Town-Wide Comprehensive Dredge Program	19.00	15.00	19.00	17.67		23.65	
6	165,000	Design Blish Point Sand Management	21.00	16.00	8.00	15.00		23.82	
7	1,575,000	Construct Blish Point Sand Management	21.00	16.00	8.00	15.00		23.82	
8	392,500	Marstons Mills Fish Run - Design & Construct	19.00	7.00	9.00	11.67		22.35	
9	210,000	Mill Pond & Long Pond Fish Ways	18.00	14.00	14.00	15.33		21.59	
10	622,820	Centerville Community Building Improvements	17.00	14.00	7.00	12.67		22.76	
11	1,144,953	Lombard Field Improvements	24.00	9.00	10.00	14.33		21.88	
12	475,000	Veterans Beach Parking Lot	19.00	13.00	4.00	12.00		22.76	
13	1,650,000	Hyannis Breakwater Repair	17.00	10.00	20.00	15.67		22.76	
14	285,168	MEA Facility Upgrades	20.00	11.00	11.00	14.00		20.76	
15	793,528	MEA Facility Addition	21.00	8.00	15.00	14.67		20.18	
16	718,000	Bismore Park Phase II - Site Improvements	20.00	12.00	11.00	14.33		19.41	
	19,425,001	Sub - Total Community Services (General Funds)							
GROWT	H MANAGI	EMENT DEPARTMENT							
Priority	Amount	Title							
1	116,546	HyArts Shanties Expansion		14.00	10.00	12.00		20.18	
2	170,000	Bicycle Accommodations Program	13.00	9.00	13.00	11.67		19.64	
		Sub-Total Growth Management (General Funds)							
POLICE	DEPARTME								
Priority	Amount	Title							
1		Police Facility Upgrades	21.00	20.00	14.00	18.33	14	24.41	8
<u> </u>		Sub-Total Police Dept (General Funds)	21.00	20.00	14.00	10.55		24142	-
REGIII A		/ICES DEPARTMENT							
			_						
Priority	Amount	Title	10.00	13.00	11.00	14.00		22.42	
2		Long Pond Centerville & Mystic Lake MM Hydrilla Control	18.00 19.00		11.00	14.00		23.12	
		Lovell's Pond Cotuit - Alum Treatment	_	14.00 9.00	11.00			23.00	
3 4		Shooting Range Lead Abatement	18.00		11.00	12.67		23.00	
4		Wequaquet Lake Project Fanwort Control   Sub-Total Regulatory Services (General Fund)	22.00	12.00	11.00	15.00		22.75	

			RALPH	вов	GREG	AVG SCORE	CFAC RANKING		Staff Ranking
Priority	Amount	Title							
<b>UBLIC \</b>	<b>WORKS DE</b>	PARTMENT							
Priority	Amount	Title							
1	3,250,000	Public Roads Maintenance	20.00	24.00	25.00	23.00	2	27.82	1
2	2,340,110	West Bay Bridge Repairs	20.00	22.00	22.00	21.33	6	24.12	10
3	3,026,225	Town Hall Interior Improvements	24.00	23.00	21.00	22.67	3	25.65	2
4	3,089,077	School Administration Building Improvements	23.00	23.00	25.00	23.67	1	25.47	3
5	310,000	New Vacuum Catch Basin Cleaner	18.00	22.00	20.00	20.00	7	22.47	
6	600,000	Guard Rail Replacements	16.00	21.00	20.00	19.00	9	22.12	
7	152,600	Hyannis Harbor Pump-out Facility (Bismore Park)	22.00	19.00	24.00	21.67	5	24.82	4
8	1,278,000	Craigville Beach Rd - Sidewalk, Drainage & Sanitary Sewer	18.00	17.00	11.00	15.33		22.47	
9	393,000	Intersection Improvements West Main/Pitchers Way	15.00	19.00	8.00	14.00		22.12	
10	6,297,714	Highway Support Facility Improvements	18.00	18.00	11.00	15.67		22.35	
11		Highway Division Building Parking Lot	13.00	10.00	4.00	9.00		20.65	
12		Sidewalk Overlays	15.00	19.00	15.00	16.33		23.18	
13		Town Hall Parking Lot Improvements	19.00	14.00	8.00	13.67		22.35	
14		US Customs House Repairs	21.00	13.00	4.00	12.67		21.99	
15		Structures & Grounds Facility Upgrades	16.00	16.00	8.00	13.33		21.88	
16		Mosswood Cemetery Bldg. Improvements	20.00	15.00	12.00	15.67		21.94	
17		Paine Black House Renovations	22.00	11.00	4.00	12.33		21.12	
18		Trayser Carriage House Repairs	18.00	12.00	2.00	10.67		20.59	
19		Burgess Barn Repairs	16.00	7.00	2.00	8.33		20.82	
20		Rush Marsh Pond Restoration	19.00	16.00	7.00	14.00		22.00	
21		Old Jail Repairs	10.00	8.00	2.00	6.67		19.41	
22	-	Burgess House Improvements	15.00	10.00	2.00	9.00		21.12	
23		200 Main St Facility upgrades	17.00	6.00	10.00	11.00		18.00	
23		Sub Total Public Works (General Funds)	17.00	0.00	10.00	15.21		22.34	
011001		· · · · · · · · · · · · · · · · · · ·				15.21		22.54	
CHOOL	DEPARTM	ENT (General Funds)							
Priority	Amount	Title							
1	5,500,000	BPS Early Learning Center	23.00	11.00	14.00	16.00		24.59	5
2	4,000,000	Barnstable Intermediate School Façade & Roof Improvements	16.00	18.00	20.00	18.00		24.35	9
3	400,000	High School Fire, Intrusion, Communication System	17.00	19.00	19.00	18.33	12	24.65	7
4	416,450	BPS Network Improvements	20.00	11.00	24.00	18.33	11	23.88	12
5	200,000	Air Conditioning Chiller Pipe Upgrades - BUE	19.00	16.00	21.00	18.67	10	23.59	13
6	100,000	Interior/Exterior Door Lock & Hardware Upgrade	17.00	15.00	23.00	18.33	13	23.94	11
7	250,000	Multimedia Ready Classrooms	17.00	12.00	21.00	16.67		21.82	
8	250,000	Kitchen Equipment Upgrades	15.00	13.00	17.00	15.00		22.18	
9	75,000	Replace Heat Circulating Pumps - BUE	15.00	16.00	19.00	16.67		22.12	
10	150,000	Rebuild/Replace Kitchen Walk-in Coolers - HY West	14.00	14.00	18.00	15.33		22.35	
11	300,000	Upgrades to BHS Performing Arts Center	19.00	12.00	15.00	15.33		22.88	
12	750,000	BHS Roof-top Ventilator Replace 5 Units	18.00	18.00	15.00	17.00		23.12	
13		BWB, HyWest & Centerville - Replace Ventilator Units	16.00	17.00	17.00	16.67		22.88	
14		BHS Replace/Upgrade Stadium Bleachers	15.00	17.00	12.00	14.67		22.53	
15		BHS Field House Improvements	14.00	15.00	8.00	12.33		22.06	
	14,691,450	Total Schools				16.49		23.13	
	,								

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## **FY 2015 BUDGET ACTION CALENDAR**

Monday	Sept	9	2013	Town Manager issues instructions to Departments for FY 2015 Capital Budget
Thursday	Sept	26	2013	Town Manager and Superintendent meet to discuss revenue sharing plan for FY 2015
Tuesday	Oct	1	2013	Town Manager conducts public hearing on <u>Calendar Year</u> permits and fees
184 - do do	0-4	22	2042	Town Manager issues instructions to Departments (including Libraries) for FY 2015
Wednesday	Oct	23	2013	Operating Budget
F : 1	0.	25	2042	All Departments submit review of existing capital projects to Finance Director and Town
Friday	Oct	25	2013	Manager (See CIP instructions)
N.4. I	0.	20	2042	Municipal Departments submit preliminary listing of any proposed FY 2015 position changes
Monday	Oct	28	2013	with supporting justification to Human Resources and Town Manager
Monday	Nov	4	2013	Deadline for FY 2015 CIP requests; copy to O: Drive and 6 hard copies to Town Manager
Friday	Nov	15	2013	Director HR submits position changes summary including comments to Town Manager
Monday	Nov	18	2013	CIP Requests distributed to Task Force and CFAC
-				Deadline for electronic version of Municipal Department budget packages placed in O: Drive;
Friday	Dec	13	2013	Libraries email individual budget narratives to Town Manager office
				Annual Organization of Town Council (TM must submit budget to Council within 170 days
Thursday	Dec	19	2013	M.G.L. 44 § 32) (June 8)
Friday	Dec	20	2013	Final day for CIP Task Force to complete & submit CIP Project scores
Tiluay	Dec	20	2013	Town Council conducts a joint meeting/workshop with the School Committee to receive a
Thursday	Jan	16	2014	
Tuesday	lan	20	2014	preliminary financial forecast from Finance Director and to agree on a coordinated budget
Tuesday	Jan	28	2014	Town Manager conducts public hearing on <u>Fiscal Year</u> permits and fees
Monday	Feb	3	2014	CFAC submits report of their review of Department CIP Project Requests to Town Manager
Thursday	Mar	20	2014	Town Manager submits recommended Capital Budget to Clerk of Town Council per Part VI,
				Section 6-5(a) of the Charter. ( <u>TC must adopt Plan BEFORE June 1, 2014</u> )
Friday	Mar	21	2014	Town Council publishes summary of Capital budget and hearing info in local newspaper
Friday	Mar	21	2014	IT Division places copy of Capital Budget on WEB
Thursday	Apr	3	2014	Town Council conducts workshop on recommended FY 2015 Capital Budget
Wednesday	Apr	16	2014	Final day for School Committee to submit FY15 approved budget to the Town Manager
				Town Council conducts hearing on recommended FY 2015 Capital Budget per Part VI
Thursday	Apr	17	2014	Section 6-5 (c) of the Charter. (Public Hearing to be held not less than 14 days AFTER
•				Publication
				Town Manager submits recommended Operating Budget to the Town Council. (TC must
Thursday	May	15	2014	adopt budget within 45 days, otherwise it becomes part of the appropriations for FY 2015)
Thursday	May	15	2014	CFAC provided with copies of the recommended Operating Budget to begin their review.
marsaay	iviay	13	2011	Town Council publishes summary of Operating Budget and hearing info in local newspaper
Friday	May	16	2014	- per Part VI, Section 6-3 (a) of the Charter
Friday	May	16	2014	
Friday	May	16	2014	IT Division places copy of Operating Budget on WEB
Friday	May	30	2014	Last weekday FY 2015 Capital Improvement Plan can be adopted by the Town Council per
				Part VI, Section 6-5(d) of the Charter
Thursday	Jun	5	2014	Town Council conducts first reading and 1st workshop of recommended FY 2015 Operating
				Budget
Thursday	Jun	12	2014	Town Council conducts Public Hearing on recommended FY 2015 Operating Budget (Public
	•			Hearing to be held not less than 14 days FOLLOWING publication)
Thursday	Jun	12	2014	CFAC submits report of their review of Proposed FY 2015 Operating Budget to Town Council
Thursday	Jun	19	2014	Town Council conducts 2nd Public Hearing on recommended FY 2015 Operating Budget (If
illuisudy	Juli	13	2014	needed)
	_		204.4	Unencumbered balances on Capital Appropriations authorized during & before FY 2012
F.,; J	1	27	2044	
Friday	Jun	27	2014	EXPIRE
Friday Friday	Jun Jun	27 27	2014 2014	EXPIRE  Last weekday FY 2014 Operating Budget can be adopted by the Town Council per Part VI,

