

SELECTMEN'S MEETING AGENDA

Griffin Room, Town Hall

Executive Session 6:00 P.M.

Regular Meeting 6:30 P.M.

Monday, November 9, 2015

I. CALL TO ORDER

- II. EXECUTIVE SESSION** – Pursuant to M.G.L. Ch. 30A, §21(a)(3), to discuss strategy with respect to collective bargaining if an open meeting may have a detrimental effect on the bargaining position of the public body and the Chair so declares – Harwich Police Federation

III. PLEDGE OF ALLEGIANCE

IV. WEEKLY BRIEFING

- A. Presentation of Proclamation to Deputy Chief Kent Farrenkopf upon his resignation as Deputy Chief to accept Fire Chief position in Town of Eastham
- B. Introduction of David LeBlanc and Scott Tyldesley as newly promoted Deputy Fire Chief and Lieutenant, respectively – Chief Clarke
- C. Announcement of Public Hearing on CPC application for fenced in off-leash areas at Thompson's Field – Amy Usowski

V. PUBLIC COMMENT/ANNOUNCEMENTS

VI. CONSENT AGENDA

- A. Approve Minutes –
 - 1. October 19, 2015 Regular Meeting
 - 2. October 26, 2015 Regular Meeting
 - 3. November 2, 2015 Executive Session
- B. Approve appointment of David LeBlanc as new member to the Local Emergency Planning Committee and Barnstable County Regional Emergency Planning Committee
- C. Approve application for Change of Manager for Allen Harbor Yacht Club, Inc.
- D. Accept various donations to the Council on Aging Gift Account totaling \$340.00
- E. Approve application for Road Race by Ragnar Events LLC for May 13-14, 2016
- F. Approve request for assistance from the Caleb Chase Fund

VII. PUBLIC HEARINGS/PRESENTATIONS (Not earlier than 6:30 P.M.)

- A. Annual Meetings:
 - 1. Utility and Energy Committee – Barry Worth, Chair
 - 2. Finance Committee – Dana DeCosta, Chair

VIII. OLD BUSINESS

- A. Proposed Adder to Agreement with CVEC – *discussion & possible vote*

IX. NEW BUSINESS

- A. Proposed upgrading of various Town department radios – Fire Chief – *discussion & possible vote*
- B. Letter to Cape Light Compact regarding amendment process – *discussion & possible vote*
- C. Landfill Solar First Year Results and distribution of revenue – *discussion & possible vote*
- D. Wastewater Educational Moment – *discussion*
 - 1. Figure 8-7: Pleasant Bay Watershed
 - 2. Figure 8-12: Harwich Wastewater Needs Summary

X. TOWN ADMINISTRATOR'S REPORT

- A. Free Cash – update
- B. Corrected 5-Year Plan Projection - update
- C. Capital Budget Request Summary (FY17 to 23) - update

XI. SELECTMEN'S REPORT

XII. ADJOURNMENT

**Per the Attorney General's Office: The Board of Selectmen may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business." If you are deaf or hard of hearing or a person with a disability who requires an accommodation contact the Selectmen's Office at 508-430-7513.*

Authorized Posting Officer:

Posted by: _____
Town Clerk

Date: _____
November 5, 2015

Ann Steidel, Admin. Secretary

Ann Steidel

From: Norman Clarke
Sent: Wednesday, November 04, 2015 7:53 AM
To: Christopher Clark
Cc: Charleen Greenhalgh; Ann Steidel
Subject: Official Noticer from the Deputy

Chris;

I received an official notice in writing from Deputy Farrenkopf yesterday of him retiring from the Harwich Fire Department and accepting the position of Fire Chief in Eastham. I've notified the members of the department that Captain David LeBlanc will be promoted to Deputy Fire Chief and FF Scott Tyldesley will be promoted to rank of Fire Lieutenant. The testing process for the Captain's vacancy is under way. I would like to introduce these members at the Nov. 9th Selectmen's meeting as well as formally announcing to the board of the Deputy's departure.

Norm

TOWN OF HARWICH
732 Main Street
Harwich, MA 02645

DATE: October 29, 2015

To: Cape Cod Chronicle

From: Harwich Conservation Department

Re: Legal Advertisements to be run in the Cape Cod Chronicle – Thursday, November 5, 2015

PLEASE RUN THE FOLLOWING ANNOUNCEMENTS IN THE LEGAL NOTICE SECTION OF THE CAPE COD CHRONICLE ON THURSDAY November 5, 2015.

**HARWICH CONSERVATION COMMISSION
NOTICE OF PUBLIC MEETING**

The Harwich Conservation Commission will hold a public meeting in accordance with the provisions of the Wetlands Protection Act, MGL Ch. 131 §40, and its Regulations 310 CMR 10.00 and the Town of Harwich Wetlands Protection By-law, and its Regulations, Article VII on **THURSDAY, November 12, 2015** at the **HARWICH COMMUNITY CENTER**, 100 Oak Street, Harwich MA 02645. The meeting begins at **6:30 p.m.**

PUBLIC MEETING: The Commission shall hold a meeting to present their application to the Community Preservation Committee to the public for the installation of fenced-in off-leash area(s) for dogs on the Route 39 side of Thompson's Field Conservation Area.

**You may contact the Conservation Office at 508-430-7538 for further information.
Walter Diggs, Chairman**

**MINUTES
SELECTMEN'S MEETING
GRIFFIN ROOM, TOWN HALL
MONDAY, OCTOBER 19, 2015
6:30 P.M.**

SELECTMEN PRESENT: Brown, Cebula, Hughes, LaMantia, MacAskill

OTHERS PRESENT: Town Administrator Christopher Clark, Assistant Town Administrator Charleen Greenhalgh, Ginny Hewitt, Matt Cushing, Anne Stewart, Lynn Schweinhaut, Fran Salewski, Michael Glynn, Roseanne Clark, Barry Worth, Maggie Downey, and others.

MEETING CALLED TO ORDER at 6:30 p.m. by Chairman Hughes.

WEEKLY BRIEFING

Ms. Hewitt described the limited services of the Brooks Free Library being offered for the duration of their power outage.

CONSENT AGENDA

- A. Approve Minutes –
 - 1. September 28, 2015 Executive Session
 - 2. October 5, 2015 Regular Meeting
- B. Approve recommendation of the Interview/Nomination Sub-committee to appoint new members to Waterways Committee, Cultural Council and Traffic Safety Committee

Ms. Brown moved approval of the Consent Agenda. Mr. MacAskill seconded the motion and the motion carried by a unanimous vote.

PUBLIC HEARINGS/PRESENTATIONS *(Not earlier than 6:30 P.M.)*

- A. Annual Meetings:
 - 1. Bikeways Committee – Fran Salewski, Chair

Mr. Salewski delivered the annual report of the Bikeways Committee.

- 2. Cultural Council – Lynn Schweinhaut, Chair

Ms. Schweinhaut delivered the annual report of the Cultural Council.

- 3. Trails Committee – Matthew Cushing, Chair

Mr. Cushing delivered the annual report of the Trails Committee.

- 4. Historic District/Historical Commission – Gregory Winston, Chair

No one from the Historic District/Historical Commission appeared before the Board.

B. Cape Light Compact Update – Margaret Downey

Maggie Downey provided the attached presentation to the Board entitled “Cape Light Compact Update: The Next Energy Efficiency Plan and Smart Grid.” She and Mr. Worth took questions and comments from the Board. Mr. Hughes asked that an organization chart be provided as well as the number of customers served under the Compact’s energy efficiency programs. Ms. Downey noted that the information is online but said she would forward it.

NEW BUSINESS

A. 6th Revised and Amended Revision to the Intergovernmental Agreement – *discussion and possible vote*

Mr. Worth stated that the proposed changes to the Intergovernmental Agreement are not significant but rather are just updating and putting things in modern terms. He noted that the most significant change is the addition of the job description for the Compact Administrator position currently held by Ms. Downey. He stated that the Agreement will be coming to the Compact’s board in November for approval. Ms. Downey stated that the majority of the changes come right out of the Aggregation Plan. Chairman Hughes asked that a clean copy be provided. Mr. LaMantia requested a summary of the changes as well. There was discussion about a legal opinion from Attorney Giorgio regarding the Town’s representative having the authority to act as the Town in authorizing changes to the document. Chairman Hughes requested that this item be brought back with Mr. Giorgio’s opinion and a clean copy of the proposed Agreement. Ms. Downey said she would prepare a summary memo of the proposed changes. Chairman Hughes said the item would be brought back in two weeks.

B. Wastewater Educational Moment – Joint meeting of Chatham/Harwich Wastewater Sub-committee – *discussion*

Mr. MacAskill reported that he and Mr. LaMantia met with the Chatham Wastewater Subcommittee and went over the draft Inter-Municipal Agreement. He noted that Chatham was very receptive to the idea and they wanted a 10% down payment. He said that it was left that Mr. Clark would meet with Jill Goldsmith, Chatham Town Manager, to discuss questions he had pertaining to O&M costs and getting actual numbers rather than projected ones. Mr. LaMantia said he was very pleased with the meeting and both towns are trying to make it work. He noted that only a few residents were present and they were interested in the potential recharge sites. Mr. LaMantia suggested having the Wastewater Implementation Committee look at Chatham’s Wastewater Regulations and he asked that Mr. Clark share them with the permitting departments as well.

C. Extension for Family Pantry License Agreement for use of town land located at 133 Queen Anne Road – *discussion and possible vote*

Mr. Clark reported that this is a five year license agreement that has a provision for an additional five years. He noted that the five years is coming up in December. Ms. Cebula moved to extend the license agreement for the Family Pantry for another 5 years. Mr. LaMantia seconded the motion and the motion carried by a unanimous vote.

D. Engagement Letter for audit services from Lynch, Malloy, Marini, LLP – *discussion and possible vote*

Chairman Hughes recommended changing the auditing firm we use at some point. Ms. Cebula moved to accept the engagement letter for audit services from Lynch, Malloy, Marini, LLP. Mr. LaMantia seconded the motion and the motion carried by a unanimous vote.

Charleen Greenhalgh introduced herself as the new Assistant Town Administrator and said she is truly delighted to be here. The Board welcomed her and Chairman Hughes said he would be happy to help her with anything she needs.

TOWN ADMINISTRATOR'S REPORT

A. Brooks Free Library electrical issues

Mr. Clark reported that he met with the Facilities Maintenance Director Sean Libby and Building Commissioner David Riquinha today regarding the electrical issues at the Library. He noted that Mr. Libby relayed to him that the Library was confronted with an issue several years ago where each of their lights had a provision where some of the bulbs would act as emergency lights and some would provide general lighting and anytime one of those ballasts went out it was exceptionally expensive to change it out so they engaged the services of an electrical engineer to assist them in what to do in terms of providing a replacement and at the recommendation of the electrical engineer in 2012 an inverter system was put in. He explained that the inverter acts as the circuit breaker to direct the power to the main lights or to the emergency lights so now we can change out the expensive ballasts with the more reasonable ballasts and the inverter does the work. He noted that something happened in which some of the circuit boards that run the inverter got burnt up and the problem is the inverter acts as the bypass. He stated that there is a Field Technician coming out on Friday to do an assessment. He noted that the Building Commissioner has stated that we can't have a Certificate of Occupancy for a place of assembly without emergency lighting so we are in a scaled down mode where the Library has to take other measures until we can get the inverter corrected. He stated that the batteries that go with the system are good for 7 years and since the system was installed in 2012, we won't have an opportunity to make any changes until 2019 and there will be a cost at that point. The Board spoke briefly about the columns at the Library and Chairman Hughes stated that if the Historic District Commission does not endorse fiberglass reinforced plastic, he has no interest in moving forward with the project.

ADJOURNMENT

Chairman Hughes adjourned the meeting at 8:29 p.m.

Respectfully submitted,

Ann Steidel
Recording Secretary

**MINUTES
SELECTMEN'S MEETING
GRIFFIN ROOM, TOWN HALL
MONDAY, OCTOBER 26, 2015
6:30 P.M.**

SELECTMEN PRESENT: Brown, Cebula, Hughes, LaMantia, MacAskill

OTHERS PRESENT: Town Administrator Christopher Clark, Assistant Town Administrator Charleen Greenhalgh, Ginny Hewitt, Robbin Kelley, Eric Beebe, Matt Hart, Clem Smith, Frank Crowley, Cynthia Eldredge, and others.

MEETING CALLED TO ORDER at 6:30 p.m. by Chairman Hughes.

Chairman Hughes noted that Item A under New Business "Revisit Section 6 – Hours of Work of Finance Director/Town Accountant's Employment Contract" would be postponed for a couple of weeks.

WEEKLY BRIEFING

Ms. Hewitt reported that the lights are back on at the Library and they have returned to the normal hours. She thanked everyone who assisted during the power outage. Chairman Hughes complimented Ms. Hewitt and her staff for the way they handled this extraordinary event.

CONSENT AGENDA

- A. Approve Minutes –
 - 1. October 13, 2015 Regular Meeting
- B. Award FY16 Road Salt contract to Eastern Minerals in the amount of \$75.35 per ton delivered
- C. Accept resignation of Peter deBakker as the Planning Board's representative to the Community Preservation Committee.
- D. Appoint James Atkinson as the Planning Board's representative to the Community Preservation Committee on a temporary basis
- E. Accept resignation of Robin Wilkins from the Harwich Housing Authority
- F. Accept various gift donations to be deposited into the Saquatucket Harbor Demolition/Beautification Account in the amount of \$150.00
- G. Appoint Amy Duffy as alternate representative to Cape Cod Municipal Health Group

Ms. Brown moved approval of the Consent Agenda. Ms. Cebula seconded the motion and the motion carried by a unanimous vote.

PUBLIC HEARINGS/PRESENTATIONS *(Not earlier than 6:30 P.M.)*

A. Annual Meetings:

- 1. Waterways Committee – Matt Hart, Chair

Mr. Hart delivered the annual report of the Waterways Committee.

2. Golf Committee – Clem Smith, Chair

Mr. Smith delivered the annual report of the Golf Committee.

3. Recreation and Youth – John Mahan, Chair

Mr. Crowley delivered the annual report of the Recreation and Youth Committee.

4. Cemetery Commission – Cynthia Eldredge, Chair

Ms. Eldredge delivered the annual report of the Cemetery Commission.

OLD BUSINESS

A. West Harwich School RFI – *discussion and possible vote*

Mr. Spitz outlined the changes to the document. Ms. Cebula moved to accept the West Harwich School RFI as written and get it sent out. Mr. MacAskill seconded the motion and the motion carried by a unanimous vote.

NEW BUSINESS

A. Revisit Section 6 – Hours of Work of Finance Director/Town Accountant’s Employment Contract – *discussion and possible vote*

This item was postponed for two weeks per the Chair.

B. Wastewater Educational Moment - *discussion*
1. Review Chatham Sewer Regulations

Chairman Hughes asked Mr. LaMantia and Mr. MacAskill to go through the regulations and identify pertinent issues. Mr. Clark recommended sending the document to Dave Young and the Wastewater Implementation Committee.

2. Capital Outlay Summary (overview of request)

Mr. Clark outlined the document and took comments from the Board. No action was taken. The Board took comments from Mr. Harlow.

3. Community Partnerships – Wastewater Treatment

Mr. Clark stated that the town of Dennis is planning to construct a facility at their landfill. He noted that Dave Young has suggested we explore partnering up with Dennis. Chairman Hughes suggested that Mr. Clark reach out to his counterpart in Dennis.

TOWN ADMINISTRATOR’S REPORT

A. Brooks Free Library electrical issues – *update*

Mr. Clark reported that the electrical issues at the Library have been resolved. He noted that Sean Libby will be following up with the company to see if something can be done to avoid that happening in the future. Chairman Hughes said we should ask them what it would take to rebuild the board because a lot of the parts are just fine and it might be worth having one standing by as a spare.

B. Saquatucket Harbor & Albro House donations – *update*

Mr. Clark reported that the total amount received for the Albro House Gift Account is \$1,732 and the total received for the Harbor Demolition/Beautification Fund is \$3,850.

C. Bike Path & Trails maintenance – *update*

Mr. Clark reported that Mr. Hooper has scheduled to do some of the painting of the stops and he thinks even the measurements that the Board had alluded to and he said he was going to do a review of the roots and their negative impact on the trail. He noted that the paving plants close during the month of November so we'll have to look at the order of magnitude and what kind of budget submissions have to be made.

D. Request to consider ordinance to deal with “eyesore” properties – *discussion*

Mr. Clark noted that there was a request from a citizen to deal with eyesore properties. He said he would like to discuss this with staff as he thinks we have some protocols to actively address these issues. He said we may want to see if the Board wants to set a policy to help guide those protocols. Chairman Hughes cautioned that these are property rights and who are they to judge them. He commented that if a facility becomes a public nuisance or the taxes are way behind, you might want to do something but just because a building looks bad he doesn't think that's the direction we want to go in.

E. Road Safety Audit – *update*

Mr. Clark reported that he attended a Traffic Safety meeting and there was a discussion regarding the intersection of Route 39 and Pleasant Bay Road. He noted that he had earlier recommended putting in a roundabout there but the Board had asked him to look at other measures and to that end we are going to do some line painting and lane configuration to try to make that area safer. He said a suggestion was made by someone in attendance at the meeting from the County to have a Road Safety Audit done to see what the available options are. He stated that the audit would include accident and speed data and would be done by the Commission at no cost to the Town.

ADJOURNMENT

Chairman Hughes adjourned the meeting at 7:39 p.m.

Respectfully submitted,

Ann Steidel
Recording Secretary
Board of Selectmen minutes
October 26, 2015

MEMO

To: Board of Selectmen
From: Sandy Robinson, Admin. Secretary
Re: FY 2016 Miscellaneous Selectmen's Appointments
Date: November 9, 2015

Due to the departure of Kent Farrenkopf and the subsequent appointment of David LeBlanc as Deputy Chief, the following Selectmen's appointments are left vacant:

- Member of the Local Emergency Planning Committee, and
- Alternate Member of the Barnstable County Regional Emergency Planning Committee

Please vote to appoint David LeBlanc as the new member to both groups effective immediately.

CC: Town Clerk
Norman Clark, Fire Chief

The Commonwealth of Massachusetts
Alcoholic Beverages Control Commission
 239 Causeway Street
 Boston, MA 02114
www.mass.gov/abcc

**RETAIL ALCOHOLIC BEVERAGES LICENSE APPLICATION
 MONETARY TRANSMITTAL FORM**

APPLICATION SHOULD BE COMPLETED ON-LINE, PRINTED, SIGNED, AND SUBMITTED TO THE LOCAL
 LICENSING AUTHORITY.

ECRT CODE: RETA

CHECK PAYABLE TO ABCC OR COMMONWEALTH OF MA: \$200.00

(CHECK MUST DENOTE THE NAME OF THE LICENSEE CORPORATION, LLC, PARTNERSHIP, OR INDIVIDUAL)

CHECK NUMBER

1010

IF USED EPAY, CONFIRMATION NUMBER

A.B.C.C. LICENSE NUMBER (IF AN EXISTING LICENSEE, CAN BE OBTAINED FROM THE CITY)

050600015

LICENSEE NAME

ALLEN HARBOR YACHT CLUB, INC.

ADDRESS

371 Lower County Road

CITY/TOWN

Harwich Port

STATE

MA

ZIP CODE

02646

TRANSACTION TYPE (Please check all relevant transactions):

- | | | | |
|--|---|---|---|
| <input type="checkbox"/> Alteration of Licensed Premises | <input type="checkbox"/> Cordials/Liqueurs Permit | <input type="checkbox"/> New Officer/Director | <input type="checkbox"/> Transfer of License |
| <input type="checkbox"/> Change Corporate Name | <input type="checkbox"/> Issuance of Stock | <input type="checkbox"/> New Stockholder | <input type="checkbox"/> Transfer of Stock |
| <input type="checkbox"/> Change of License Type | <input type="checkbox"/> Management/Operating Agreement | <input type="checkbox"/> Pledge of Stock | <input type="checkbox"/> Wine & Malt to All Alcohol |
| <input type="checkbox"/> Change of Location | <input type="checkbox"/> More than (3) §15 | <input type="checkbox"/> Pledge of License | <input type="checkbox"/> 6-Day to 7-Day License |
| <input checked="" type="checkbox"/> Change of Manager | <input type="checkbox"/> New License | <input type="checkbox"/> Seasonal to Annual | |
| <input type="checkbox"/> Other | | | |

THE LOCAL LICENSING AUTHORITY MUST MAIL THIS TRANSMITTAL FORM ALONG WITH THE
 CHECK, COMPLETED APPLICATION, AND SUPPORTING DOCUMENTS TO:

ALCOHOLIC BEVERAGES CONTROL COMMISSION
P. O. BOX 3396
BOSTON, MA 02241-3396



The Commonwealth of Massachusetts
 Alcoholic Beverages Control Commission
 239 Causeway Street
 Boston, MA 02114
 www.mass.gov/abcc

PETITION FOR CHANGE OF LICENSE

050000015

ABCC License Number

Harwich

City/Town

The licensee Allen Harbor Yacht Club, Inc respectfully petitions the Licensing Authorities to approve the following transactions:

- Change of Manager
- Alteration of Premises
- Pledge of License/Stock
- Cordial & Liqueurs
- Change of Corporate Name/DBA
- Change of Location
- Change of License Type (\$12 ONLY, e.g. "club" to "restaurant")

Change of Manager

Last-Approved Manager: Peter Moynagh

Requested New Manager: Mark Illingworth

Pledge of License /Stock

Loan Principal Amount: \$ Interest Rate:

Payment Term: Lender:

Change of Corporate Name/DBA

Last-Approved Corporate Name/DBA:

Requested New Corporate Name/DBA:

Change of License Type

Last-Approved License Type:

Requested New License Type:

Alteration of Premises: (must fill out attached financial information form)

Description of Alteration:

Change of Location: (must fill out attached financial information form)

Last-Approved Location:

Requested New Location:

Signature of Licensee

[Handwritten Signature]
 Corporation/LLC, by its authorized representative

Date Signed

10.17.15



The Commonwealth of Massachusetts
 Alcoholic Beverages Control Commission
 239 Causeway Street
 Boston, MA 02114
 www.mass.gov/abcc

MANAGER APPLICATION

All proposed managers are required to complete a Personal Information Form, and attach a copy of the corporate vote authorizing this action and appointing a manager.

1. LICENSEE INFORMATION:

Legal Name of Licensee: Business Name (dba):

Address:

City/Town: State: Zip Code:

ABCC License Number: (If existing licensee) Phone Number of Premise:

2. MANAGER INFORMATION:

A. Name: B. Cell Phone Number:

C. List the number of hours per week you will spend on the licensed premises:

3. CITIZENSHIP INFORMATION:

A. Are you a U.S. Citizen: Yes No B. Date of Naturalization: C. Court of Naturalization:

(Submit proof of citizenship and/or naturalization such as U.S. Passport, Voter's Certificate, Birth Certificate or Naturalization Papers)

4. BACKGROUND INFORMATION:

A. Do you now, or have you ever, held any direct or indirect, beneficial or financial interest in a license to sell alcoholic beverages? Yes No
 If yes, please describe:

B. Have you ever been the Manager of Record of a license to sell alcoholic beverages that has been suspended, revoked or cancelled? Yes No
 If yes, please describe:

C. Have you ever been the Manager of Record of a license that was issued by this Commission? Yes No
 If yes, please describe:

D. Please list your employment for the past ten years (Dates, Position, Employer, Address and Telephone):

I hereby swear under the pains and penalties of perjury that the information I have provided in this application is true and accurate:

Signature:

Date:

The Commonwealth of Massachusetts
Alcoholic Beverages Control Commission
239 Causeway Street
Boston, MA 02114
www.mass.gov/abcc

PERSONAL INFORMATION FORM

Each individual listed in Section 10 of this application must complete this form.

1. LICENSEE INFORMATION:

A. Legal Name of Licensee	Allen Harbor Yacht Club, Inc.	B. Business Name (dba)	Allen Harbor Yacht Club		
C. Address	371 Lower County Road	D. ABCC License Number (If existing licensee)	050600015		
E. City/Town	Harwich Port	State	MA	Zip Code	02646
F. Phone Number of Premise	508-432-9774	G. EIN of License	04-2423731		

2. PERSONAL INFORMATION:

A. Individual Name	Mark Illingworth	B. Home Phone Number			
C. Address	5 Captains Ln.				
D. City/Town	Harwich	State	MA	Zip Code	02645
E. Social Security Number		F. Date of Birth			
G. Place of Employment	Allen Harbor Yacht Club				

3. BACKGROUND INFORMATION:

Have you ever been convicted of a state, federal or military crime?

Yes No

If yes, as part of the application process, the individual must attach an affidavit as to any and all convictions. The affidavit must include the city and state where the charges occurred as well as the disposition of the convictions.

4. FINANCIAL INTEREST:

Provide a detailed description of your direct or indirect, beneficial or financial interest in this license.

None.

IMPORTANT ATTACHMENTS (8): For all cash contributions, attach last (3) months of bank statements for the source(s) of this cash.

*If additional space is needed, please use the last page

I hereby swear under the pains and penalties of perjury that the information I have provided in this application is true and accurate:

Signature



Date

10/17/15

Title

Manager

(If Corporation/LLC Representative)



Commonwealth of Massachusetts
Alcoholic Beverages Control Commission
239 Causeway Street, First Floor
Boston, MA 02114

STEVEN GROSSMAN
TREASURER AND RECEIVER GENERAL

KIM S. GAINSBORO, ESQ.
CHAIRMAN

CORI REQUEST FORM

The Alcoholic Beverages Control Commission has been certified by the Criminal History Systems Board to access conviction and pending Criminal Offender Record Information. For the purpose of approving each shareholder, owner, licensee or applicant for an alcoholic beverages license, I understand that a criminal record check will be conducted on me, pursuant to the above. The information below is correct to the best of my knowledge.

ABCC LICENSE INFORMATION

ABCC NUMBER: (IF EXISTING LICENSEE)	050600015	LICENSEE NAME:	Allen Haber Yacht Club, Inc.	CITY/TOWN:	Harwich
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APPLICANT INFORMATION

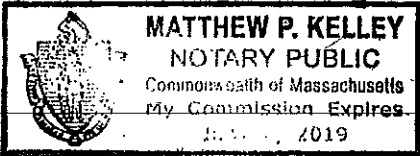
LAST NAME:	Illingworth	FIRST NAME:	Mark	MIDDLE NAME:	
MAIDEN NAME OR ALIAS (IF APPLICABLE):		PLACE OF BIRTH:	Peabody, MA.		
DATE OF BIRTH:		SSN:		ID THEFT INDEX PIN (IF APPLICABLE):	
MOTHER'S MAIDEN NAME:		DRIVER'S LICENSE #:		STATE LIC. ISSUED:	Massachusetts
GENDER:	MALE	HEIGHT:		WEIGHT:	
EYE COLOR:					
CURRENT ADDRESS:	5 Captains Ln.				
CITY/TOWN:	Harwich	STATE:	MA	ZIP:	02645
FORMER ADDRESS:	33 Fairview Rd.				
CITY/TOWN:	Canton	STATE:	MA	ZIP:	02021

PRINT AND SIGN

PRINTED NAME:	Mark Illingworth	APPLICANT/EMPLOYEE SIGNATURE:	
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NOTARY INFORMATION

On this 17th Day of October before me, the undersigned notary public, personally appeared Mark Illingworth
(name of document signer), proved to me through satisfactory evidence of identification, which were Drivers License (MA)
to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.



Matthew P. Kelley
NOTARY

6/1/19

DIVISION USE ONLY

REQUESTED BY:	
SIGNATURE OF CORI-AUTHORIZED EMPLOYEE	

The DCI Identify Theft Index PIN Number is to be completed by those applicants that have been issued an Identity Theft PIN Number by the DCI. Certified agencies are required to provide all applicants the opportunity to include this information to ensure the accuracy of the CORI request process. ALL CORI request forms that include this field are required to be submitted to the DCI via mail or by fax to (617) 660-4614.

CERTIFICATE OF VOTE

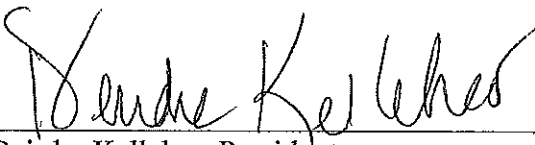
ALLEN HARBOR YACHT CLUB, INC.

At a meeting of Allen Harbor Yacht Club, Inc. duly called and held at the Yacht Club located at 371 Lower County Road, Harwich Port, Massachusetts on October 17, 2015 at which a quorum of Board members were present and voting, upon motion duly made, accepted, and seconded, it was

VOTED: That Mark Illingsworth be hired in the position of Club Manager of Allen Harbor Yacht Club. The members of the Board of Directors of the Yacht Club further authorize, Mark Illingsowth, to do all things reasonable and necessary in connection with the foregoing including serving as the licensed manager for all purposes including but not limited to becoming the Manager of Record on the club's liquor license.

I hereby certify that the foregoing is a true and accurate copy of the minutes of said meeting and that the vote has not been altered, amended, or revoked, and that I am the duly-elected President of the corporation.

Date: October 17, 2015



Deirdre Kelleher, President

A True and Attested Copy:



Susan Matulaitis, Secretary



MASSACHUSETTS DEPT. OF REVENUE
PO BOX 7066
BOSTON, MA 02204



MARK E. NUNNELLY, COMMISSIONER
MICHAEL J. LIVIDOTI, DEPUTY COMMISSIONER



ALLEN HARBOR YACHT CLUB INC
PO BOX 443
HARWICH PORT MA 02646-0443

243C

Notice 80619
T/P ID 042 423 731
Date 07/09/15
Bureau CERTIFICATE

OP

CERTIFICATE OF GOOD STANDING AND/OR TAX COMPLIANCE

The Commissioner of Revenue certifies as of the above date, that the above named individual or entity is in compliance with its tax obligations payable under M.G.L. c. 62C, including corporation excise, sales and use taxes, sales tax on meals, sales and use tax on Boats/RV, withholding taxes, room occupancy excise and personal income taxes, with the following exceptions.

This Certificate certifies that individual taxpayers are in compliance with income tax obligations and any sales and use taxes, sales tax on meals, withholding taxes, and/or room occupancy taxes related to a sole proprietorship. Persons deemed responsible for the payment of these taxes on behalf of a corporation, partnership or other business entity may not use our automated process to obtain a Certificate.

This Certificate does not certify that the entity's standing as to taxes such as unemployment insurance administered by agencies other than the Department of Revenue, or taxes under any other provisions of law. Taxpayers required to collect or remit the following taxes must submit a separate request to certify compliance: Alcoholic Beverage Excise, Cigarette Excise, International Fuels Tax Agreement, Smokeless Tobacco or Ferry Embarkation.

THIS IS NOT A WAIVER OF LIEN ISSUED UNDER GENERAL LAWS, CHAPTER 62C,
SECTION 52.

Very truly yours,

Michael J. Lividoti, Deputy Commissioner



**Harwich
Council on Aging**
100 Oak Street, Harwich, MA 02645

Council 508-430-7550
Outreach 508-430-7551

October 30, 2015

Board of Selectmen
Chairman
732 Main Street
Harwich, MA 02645

Dear Mr. Chairman;

Please accept as gifts to the Council on Aging Gift Account #14085004 donations totaling \$340.00 deposited with the Town Treasurer. Thank you notes have been sent.

Sincerely,

Barbara-Anne Foley

Barbara-Anne Foley
Harwich COA Director





OFFICE OF THE SELECTMEN
732 MAIN STREET
HARWICH, MA 02645
Telephone: (508) 430-7513

FORM #7

APPLICATION FOR LICENSE/PERMIT

OCT 02 2015

PLEASE CHECK

ROAD RACE

CRAFT FAIR

OTHER

IN ACCORDANCE WITH THE PROVISIONS OF THE STATUTES RELATING THERETO, APPLICATION AS STATED ABOVE IS HEREBY MADE BY:

NAME OF BUSINESS Ragnar Events, LLC PHONE 617-686-3216

BUSINESS ADDRESS 12 S 400W, 2nd Floor, Salt Lake City, UT 84101

MAILING ADDRESS 7 Donna Pass, Hopkinton MA 01748

PLEASE STATE THE PURPOSE FOR WHICH LICENSE/PERMIT IS REQUESTED _____

200-Mile overnight running relay race. We partner with community groups who volunteer and we donate to them. We also partner with the Hole in the Wall Gang Camp charity.

DESCRIPTION OF ROAD RACE/CRAFT FAIR/OTHER EVENT TO BE LICENSED, PLEASE LIST DATE, TIME, LOCATION/ROUTE, ETC.

DATE May 13-14, 2016

TIME May 13th at 9PM until 12PM on May 14th.

ROUTE/LOCATION Please see attached proposal and event overview.

(please use reverse side if necessary)

Michael Dionne
Signature of Applicant

Social Security Number of Federal Identification Number

Signature of Individual or Corporate Name

*for Police/Fire Depts:
signatures **DONE**
Return to _____
Selectmen's
Office
Thx!
Ann
10-21-15*

*****REGULATORY COMPLIANCE FORM*****

THE EVENT(S) TO BE LICENSED AS DESCRIBED HEREBIN HAVE BEEN REVIEWED AND APPROVED BY:

[Signature] 10/29/15
Police Department Date

see attached
Building Commissioner Date

na
Recreation & Youth Commission Date

na
Board of Health Date

[Signature] 10/28/15
Fire Department Date

***Required signatures are to be obtained by the Applicant prior to submission of application with the Selectmen's Office.

For Office Use Only

FEE _____ CASH _____ CHECK _____

FOR _____

REVIEWED BY _____

DATE LICENSE ISSUED _____

*****REGULATORY COMPLIANCE FORM*****

THE EVENT(S) TO BE LICENSED AS DESCRIBED HEREIN HAVE BEEN REVIEWED AND APPROVED BY:

Police Department Date

 _____ 10-21-15
Building Commissioner Date

Recreation & Youth Commission Date

Board of Health Date

Fire Department Date

*****Required signatures are to be obtained by the Applicant prior to submission of application with the Selectmen's Office.**

For Office Use Only

FEE _____ CASH _____ CHECK _____

FOR _____

REVIEWED BY _____

DATE LICENSE ISSUED _____



FAX

To: Whom it may concern

From: Bill Sykes

Fax: All

Date: 10/13

Phone:

Pages: Multiple

Re:

cc:

Urgent For Review Please Comment Please Reply Please Recycle

As per below, could you please sign this form and fax to me at 508 746 1695.

As per our conversation, attached is the 2 page application for Road Race. Please complete and return to me with signatures from the Harwich Police and Fire Departments so that I can put before the Board of Selectmen for a vote.

Many thanks -

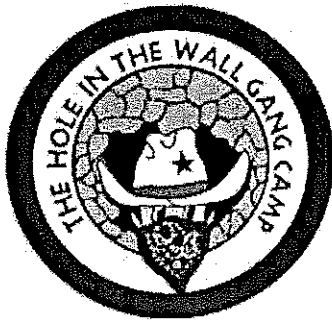
Ann Steidel
Administrative Secretary
Board of Selectmen/Town Administrator's Office
Town of Harwich
732 Main Street
Harwich, MA 02645

Bill Sykes
Sports Manager
Promoter Line, Inc
East Coast Office
Best Buddies Challenge
Bike MS Nationwide Events
13 River St, Plymouth, MA 02360
508 746 3207 o / 508 746 1695 f / 508 954 9037 c
bill@promoterline.com
www.promoterline.com



RAGNAR CAPE COD

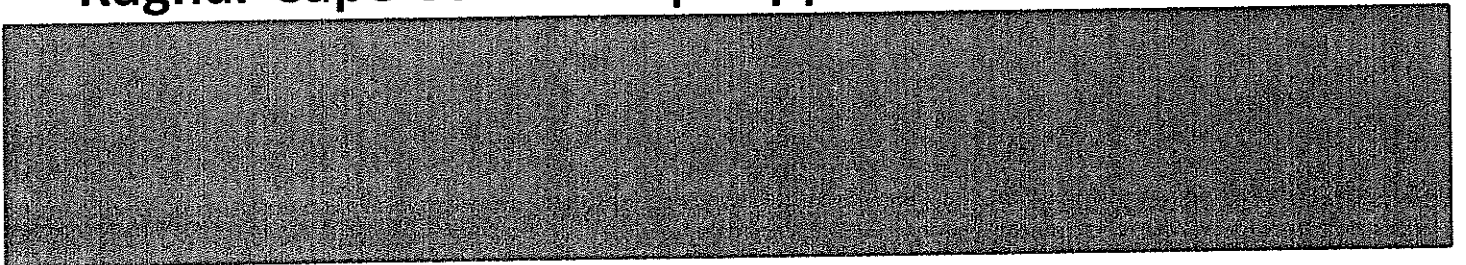
May 13-14, 2016



a seriousfun camp



Ragnar Cape Cod 2016 | Supplemental Information



Ann Steidel

From: Christopher Clark
Sent: Monday, November 02, 2015 3:44 PM
To: Ann Steidel
Subject: FW: Need to know where Harwich stands on Adder

Hi Ann –

This will be an item for the BoS meeting on November 9th. The Board will need to make a final decision on this.

Charleen

From: Liz Argo [mailto:largo@cvecinc.org]
Sent: Monday, November 02, 2015 12:26 PM
To: Christopher Clark <cclark@town.harwich.ma.us>
Cc: Larry Cole <coleslawone@yahoo.com>; McLaughlin, Charles <Charles.McLaughlin@town.barnstable.ma.us>
Subject: Need to know where Harwich stands on Adder

Hi Chris,

CVEC is wrapping up the requests for approval of the \$0.01 Adder on the Round 1 projects. We present to Eastham tonight and Yarmouth tomorrow night. That will leave only Edgartown and Barnstable, which are scheduled out in a few weeks time. The Adder has been approved so far by all participants. Where do we stand in Harwich?

Thank You,

Liz

Liz Argo
Manager, Programs & Administration



Cape & Vineyard Electric Cooperative, Inc.
P.O. Box 427/SCH
Barnstable, MA 02630
774-722-1812

- F. Vote to refer Ginger Plum Lane road betterment to the Planning Board for Public Hearing following Assessor's verification of owners/signatures which meets criteria of 50% plus one

Ms. Brown moved acceptance of the Consent Agenda Items A, B, D, E and F. With regard to Item B, she noted that the background check was completed. Mr. LaMantia seconded the motion and the motion carried by a unanimous vote. Mr. Clark introduced new Assistant Town Administrator Charleen Greenhalgh.

PUBLIC HEARINGS/PRESENTATIONS *(Not earlier than 6:30 P.M.)*

- A. Annual Meetings:
 - 1. Community Center Facilities Committee

Mr. Culver delivered the annual report of the Community Center Facilities Committee.

- 2. Recreation and Youth Commission

No one from the Commission appeared before the Board.

- 3. Council on Aging

Ms. Johnson provided the annual report of the Council on Aging.

- (B.)** Cape & Vineyard Electric Co-op's finances and plans for the coming year – Liz Argo

Ms. Argo, Manager of Programs and Administration at CVEC, provided the attached presentation to the Board which included a list of services provided by CVEC to the Town and a proposed Adder to the agreement. With regard to the proposed Adder, Chairman Hughes pointed out that we made our plans on what the numbers were. He said he would like to see the first annual report. He stated that we held off giving our unions raises until the system came online and that is what we spent a lot of the money on. Mr. MacAskill said he would like to see the first annual report as well and asked when they could get it. Ms. Argo responded that she will prioritize it. Mr. Clark stated that he has significant concerns and that the \$300,000 anticipated has already been dedicated to salaries and wages. He noted that we are also obligated to pay over \$50,000 in personal property tax and that we have an opinion that we owe a certain amount to the Water Department. He expressed concerns about the amount of \$150,000 that CVEC has spent on legal fees. Mr. Checklick, CVEC President, said that without the Adder, the services that CVEC can provide will be greatly reduced. The Board took comments from CVEC Attorney Charlie McLaughlin regarding personal property tax who said he would provide the Board with a short explanation. Chairman Hughes said they will discuss it further after they have had a chance to digest the first annual report. Mr. Cole provided comments regarding what it would cost to pay for services that CVEC provides.

OLD BUSINESS

- A. Full-time Building Inspector – *discussion & possible vote*



Cape & Vineyard Electric Cooperative, Inc.

Town of Harwich

9.15.15



John C. Checklick, CVEC President

Liz Argo, Manager, Programs & Administration



Cape & Vineyard Electric Cooperative, Inc.

Municipal Net Metered Power

Cape & Vineyard Electric Cooperative Past - Present - Future

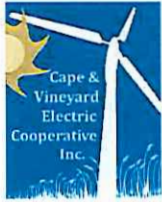
- Three PV Initiatives totaling 28MW are now producing power
 - The largest block of Cooperative PV power in New England
 - End FY15, distribution of cashed out net metering benefits = **\$2,250,000**
- Potential Future PV Initiatives - based on 3 previous initiatives' successes
- Battery Back-up - CVEC currently awarded a \$1.5 million grant for a battery back-up system at DY High School
- Potential Future Battery Initiatives
- Cooperative participation with Future Generation Wind with fixed cost PPA



Cape & Vineyard Electric Cooperative, Inc.

CVEC Benefits

- CVEC provides PV installations at *no capital cost to participating towns.*
- The low PPA costs CVEC negotiated *are fixed for 20 years, which is highly uncommon in other similar contracts. Savings from a fixed PPA of \$0.07 vs escalating at 2% over 20 years = \$664,000 for Chatham's 1.8MW PV installation – the average size PV system in Round 1*
- The Cooperative allows towns to benefit from distributed generation *beyond the state's per town limit of 10MW.*
- The Cooperative provides *optimization of PV installation location.* For instance, the power from 8 CVEC capped landfill projects developed to capacity is now shared through the Cooperative.



Cape & Vineyard Electric Cooperative, Inc.

The “Ask”

- In 2010 the CVEC Board voted to avoid the Administrative Operational Adder on the 8 Round 1 projects
 - In 2011 the Board voted to cover costs for monitoring and billing, etc. with a per kWh Administrative Operations Adder on the Round 2 projects; \$0.01 for members and \$0.015 for non-members added to the PPA cost
-
- Without an Adder on the 8 Round 1 projects, CVEC recognizes it can't maintain its services for all participants at the current level
 - In the interest of equitability and to continue services for all, in 2015 the CVEC Board voted to propose an Adder on the Round 1 projects, similar the Adder on its other projects.



Cape & Vineyard Electric Cooperative, Inc.

CVEC Operations Management Services

in addition to leading further PV and Battery development for Region

- Maintain Schedule Z database for all projects - host & offtaker (needed for accurate distribution of net metering credits)
- Calculate monthly net metering credit activities: Expense, Revenue, Net
- Provide professional third party annual audit reports
- Provide annual reports; showing annual costs and net benefits
- Verify achievement of production expectations (GAO) and assure shortfall compensation
- Interface with Utility and PV system owner to assure proper compensation and proper maintenance and repairs.
- Provide annual reports to Mass DOER
- Provide legal services associated with management of systems
- Provide assistance with tax assessment, insurance, emergency response, etc.



Cape & Vineyard Electric Cooperative, Inc.

The Adder to Harwich in dollars and cents

	Net Benefit
Year One Net Estimated Benefit from R1 to Harwich as Host with Offtakers	\$464,795
Apply adder of \$0.01 per kWh to R1	\$44,828
Adjusted Net Estimated Benefit from R1 to Harwich as Host with Offtakers	\$419,967
Percentage Year One Income Reduced	9.64%

*** The NMC used in calculations of \$0.159 will adjust up or down over the life of the project, with a net rise expected as the cost of electricity is expected to rise.



Cape & Vineyard Electric Cooperative, Inc.

The Adder to Harwich in dollars and cents

- Harwich has the largest installation in Round 1 and thus receives the greatest benefit
- 55% of the benefit is through CVEC offtaker distribution of excess NMC, providing a \$73,862 revenue stream to Harwich
- The NMC used in calculations of \$0.159 will adjust up or down over the life of the project, with a net rise expected, as the cost of electricity is expected to rise





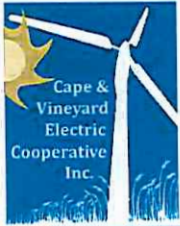
Cape & Vineyard Electric Cooperative, Inc.

The Need in dollars and cents

CVEC FY16 Annual Income and Expenses

	Annual Income from R2 and FGW adders	Annual Budget	Net Income (Loss)
Projected TOTALS	\$162,348	\$352,815	\$190,466

An adder on all Round 1 projects will provide an approximate annual revenue of **\$197,637**



Cape & Vineyard Electric Cooperative, Inc.

Assurances

- CVEC will revisit the adder on Round 1 at year three to determine whether it is recommended that the adder be discontinued, continued, or reduced



CVEC Budget with Income/Expense Projection for FY16

5.12.15

<u>REVENUES</u>	<u>Projected FY2016</u>
<i>PV Solar Operational Adder Revenue- Round 2</i>	144,480.00
<i>Wind Operational Adder Revenue - FGW</i>	11,718.75
<i>CVEC Administrative Consulting Services Revenue</i>	6,000.00
<i>PV Solar Design/Engineering Support</i>	0.00
<i>Grant/Contributions Revenue</i>	0.00
<i>Member Fee Revenue</i>	0.00
<i>Interest Income</i>	150.00
Total Revenues	162,348.75
<u>EXPENSES</u>	
<i>Legal</i>	150,000.00
<i>Filing Fees</i>	150.00
<i>Bank Fees</i>	1,500.00
<i>Taxes</i>	1,296.00
<i>Consultant (AMS) Quickbooks Development and Accounting Services</i>	15,600.00
<i>Consultant (Peregrine Energy Group) Net Metering Credit Management</i>	32,200.00
<i>Barnstable County Bookkeeper</i>	15,000.00
<i>Audit Fees</i>	16,000.00
<i>Con Edison Solutions (CVEC-7 O&M)</i>	5,000.00
<i>Insurance</i>	14,250.00
<i>Dues (PURMA Insurance)</i>	1,200.00
<i>Travel (Reimburse Board for Travel)</i>	6,000.00
<i>Salaries</i>	67,924.00
<i>Fringes</i>	18,848.00
<i>Barnstable County Office Rental</i>	802.00
<i>Supplies/Office Expenses/Postage</i>	2,000.00
<i>Computers</i>	0.00
<i>Professional Development</i>	500.00
<i>Engineering (Feasibility Studies)</i>	0.00
<i>CVEC-7 O&M</i>	0.00
<i>Advertising</i>	225.00
<i>PV Solar Design/Engineering Support</i>	0.00
<i>Miscellaneous lunches, mail, phone, ground breakings, filing fees</i>	4,320.00
Total Expenses	352,815.00
NET INCOME/(LOSS)	-190,466.25
FY14 Beginning equity	311,385.00
FY15 Beginning equity	293,483.85

1/8/2015	2/6/2015	73,800	\$14,249	(\$12,048)	\$2,200
2/6/2015	3/9/2015	88,740	\$17,200	(\$8,102)	\$9,098
3/9/2015	4/7/2015	126,240	\$24,522	(\$11,526)	\$12,996
4/7/2015	5/7/2015	94,980	\$18,419	(\$8,672)	\$9,748
5/7/2015	6/8/2015	187,560	\$36,493	(\$17,124)	\$19,369
6/8/2015	7/8/2015	176,340	\$32,126	(\$16,100)	\$16,026
7/8/2015	8/6/2015	177,300	\$26,279	(\$16,187)	\$10,092
Grand Total		1,406,160	\$239,300	(\$128,385)	\$110,915

Participant Benefits and Costs

Participant Type	Participant	Avg. Participant Share	kWh Share	NMC Share	PPA Cost Share	Revenue Share	Net Benefit
Host	Tisbury	87.76%	1,234,046	\$210,010	(\$112,671)	\$6,789	\$104,128
Offtaker	Barnstable Cou..	2.10%	29,529	\$5,025	(\$2,696)	(\$1,165)	\$1,164
	Brewster	1.29%	18,139	\$3,087	(\$1,656)	(\$715)	\$715
	Chatham	0.56%	7,874	\$1,340	(\$719)	(\$311)	\$311
	Chilmark	0.13%	1,828	\$311	(\$167)	(\$72)	\$72
	Dukes County	0.22%	3,094	\$526	(\$282)	(\$122)	\$122
	Monomoy Scho..	2.57%	36,138	\$6,150	(\$3,300)	(\$1,425)	\$1,425
	Oak Bluffs	0.64%	8,999	\$1,532	(\$822)	(\$355)	\$355
	Provincetown	1.67%	23,483	\$3,996	(\$2,144)	(\$926)	\$926
	Yarmouth	3.06%	43,028	\$7,323	(\$3,929)	(\$1,697)	\$1,697
Grand Total		100.00%	1,406,160	\$239,300	(\$128,385)	\$0	\$110,915

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Grand Total		100.00%	1,406,160	\$239,300	(\$128,385)	\$0	\$110,915



HARWICH FIRE DEPARTMENT

Norman M. Clarke Jr., **Chief of Department**
Kent J. Farrenkopf., **Deputy Chief**

MEMORANDUM

October 27, 2015

To: Town Administrator Clark

From: Chief Clarke

Re: Town Radio Proposal

Per your request, I would like to attend the November 9th Selectmen's meeting to brief the board on the proposed upgrading of the various town department's radios (mobiles and portables). The briefing would include the overall plan and justification for the plan as well as a breakdown of the costs with the option to phase in departments to spread the cost of the project out over several years.



732 MAIN STREET, HARWICH, MA 02645

November 4, 2015

Ms. Maggie Downey
Compact Administrator
Cape Light Compact
P.O. Box 427
Barnstable, MA 02630

Dear Ms. Downey:

At a meeting of the Harwich Board of Selectmen held on Monday, November 2, 2015, the Board took up the matter of amendments to the Cape Light Compact Inter-Governmental Agreement. As part of this discussion, it was agreed that going forward, whenever significant changes are proposed to the Inter-Governmental Agreement or any document related to the Compact, we would like the Compact and its members to consider that it be brought back to whoever the appointing authority is, in our case the Board of Selectmen, to vote on and authorize its representative to act on its behalf. The Board prefers that only minor amendments, e.g. housekeeping changes, be left to the Governing Body to amend without the need for a vote of the Board of Selectmen or appointing authority.

Our Charter has the Board of Selectmen as Chief Executive Authority who guides the community by establishing policy for the organization. The Town Administrator, not unlike the Compact Administrator, runs the organization on a day-to-day basis consistent with those policies.

Policy questions should go before the Selectmen of respective towns with day-to-day to Cape Light Compact.

Sincerely,

Peter S. Hughes, Chair

Linda A. Cebula

Jannell M. Brown

Angelo S. LaMantia

Michael D. MacAskill

HARWICH BOARD OF SELECTMEN

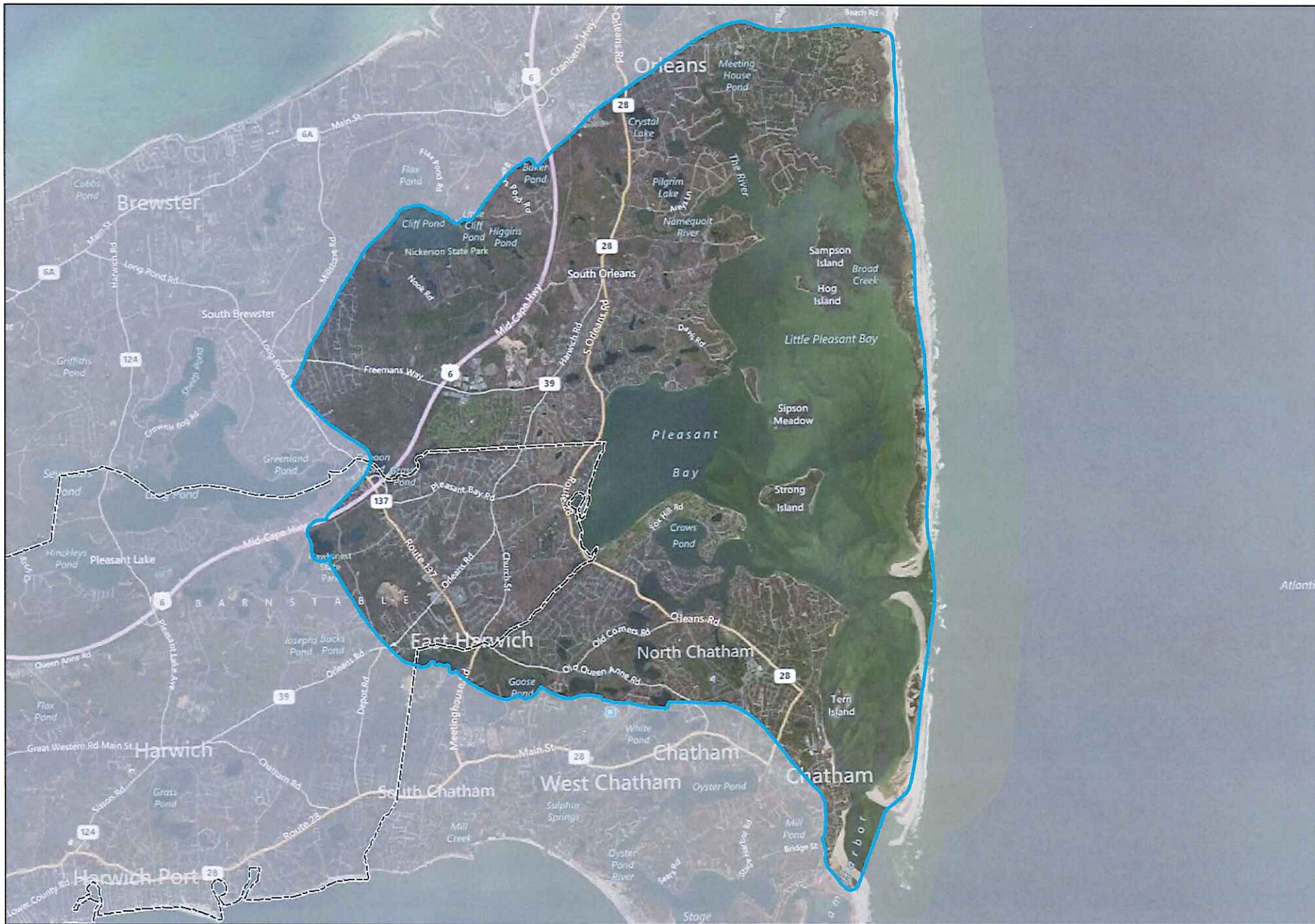
cc: Barry Worth
Cape Light Compact member towns


Harwich Landfill PV
8/1/14 - 8/9/15

	kWh Share	NMC Share	PPA Cost Share	Net Benefit before Revenue Share	Revenue Share	Net Benefit after Revenue Share
Town of Harwich Totals	3,328,060	\$564,485	(\$236,293)	\$328,192	\$101,561	\$429,752

Allocations by Department

Department	% of Harwich Total	kWh Share	NMC Share	PPA Cost Share	Net Benefit before Revenue Share
Water Dept	43%	1,431,066	\$242,729	(\$101,606)	\$141,123
Other Depts.	57%	1,896,994	\$321,756	(\$134,687)	\$187,069
Total	100%	3,328,060	\$564,485	(\$236,293)	\$328,192





Legend

- Watershed Boundary
- Harwich Town Boundary

**Town of Harwich
Comprehensive Wastewater
Management Plan**

1 Inch = 6,500 feet

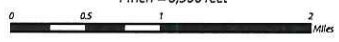
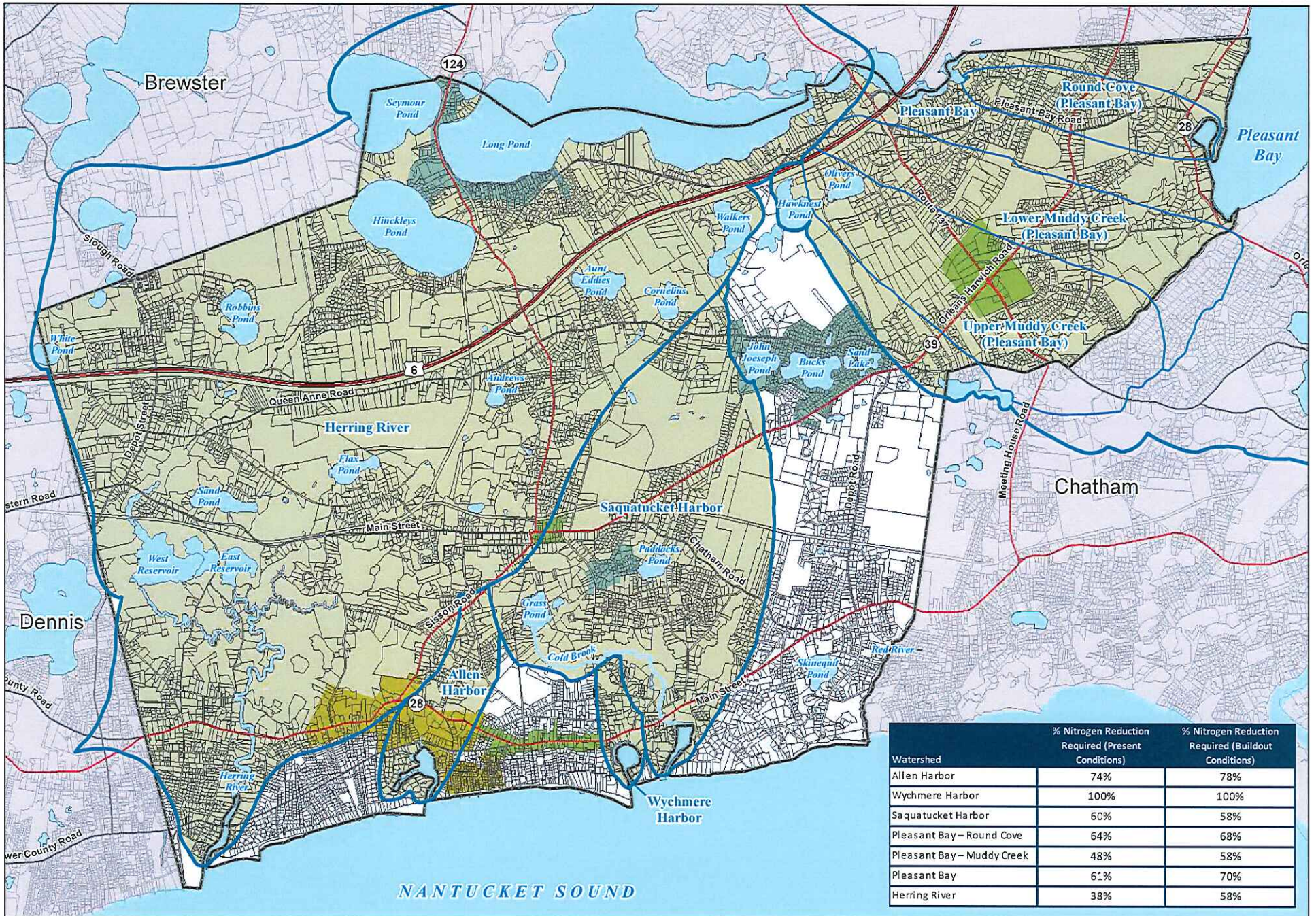


Figure 8-7
Pleasant Bay
Watershed Development
**CDM
Smith**



Town of Harwich
Comprehensive Wastewater
Management Plan

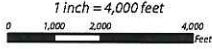
Figure 8-12
Harwich Wastewater Needs Summary



Legend
Category 1 Areas

- Area of Concern for Pond Health
- Area of Title 5 Concern
- Socio-Economic Needs
- Nitrogen Management

Watershed Boundaries



Y:\Camp\svr1\projects\Harwich\Harwich_cwmp\WXDI\Section_8\Figure_12_Wastewater_Needs_Summary.mxd JDN 4/17/2012

Ann Steidel

From: Andrew Gould
Sent: Wednesday, November 04, 2015 2:37 PM
To: Christopher Clark
Cc: Ann Steidel
Subject: Selectboard packet
Attachments: Free Cash Revenues 2015.xlsx; 5 Year Projection.xls

Chris,

Attached is the backup to the free cash number. Also, attached is the revised 5-year forecast. I revised several figures to include recycling fees and to make local receipts more consistent from year to year without any spikes in FY 2017. I also reduced the CVEC amount as a result of the 43% share going to the water enterprise fund.

Please let me know if you want me to make any additional changes

Thanks,
Andy

**Town of Harwich
Revenue Analysis
FY 2015**

Revenues:	Amount
RE Taxes 2015	657,891.00
RE Taxes Prior Years	416,345.00
Tax Title	352,085.00
MVE	234,221.00
Ambulance	489,762.00
Waste Disposal	359,023.00
Total	2,509,327.00

**Town of Harwich
Five Year Financial Plan**

9/30/2014 Local Receipts General Fund	Five Year Financial Plan				
	FY 2016 Budget	Five Year Plan FY 2017	Five Year Plan FY 2018	Five Year Plan FY 2019	Five Year Plan FY 2020
010004 432029 PRIOR YEAR RECOVERY	-	-	-	-	-
010004-436004 BLDG USE FEE					
010004 458901 MEDICAID/ Medicare Part D		-	-	-	-
010004 481004 SALE OF PROPERTY					
010004 481005 CC REG TECH FEE(RES OFFICER)	20,000	20,000	20,000	20,000	20,000
010004 484010 WORKERS COMP RECOVERY					
010004 484099 GEN FUND MISC REVENUE	97	97	97	97	97
TOTAL GENERAL FUND - MISC REVENUE	20,097	20,097	20,097	20,097	20,097
011224 SELECTMEN - REV					
011224 421600- COMMUNICATION LEASE		625	625	625	625
011224 432003 PHOTOCOPIES		-	-	-	-
011224 -436008 Old Rec/Jr Theather	148	150	152	155	157
011224 441000 LIQUOR LICENSES	64,310	64,310	64,310	64,310	64,310
011224 442001 HOTEL, MOTEL, INN	750	750	750	750	750
011224 442003 CABLE		-	-	-	-
011224 442004 JUNK COLLECTOR, DEALER	245	245	245	245	245
011224 442005 USED CAR DEALER	2,200	2,200	2,200	2,200	2,200
011224 442006 AMUSEMENT DEVICE LICENSE		-	-	-	-
011224 442008 TAXI/LIMO LICENSE	100	100	100	100	100
011224 442009 ENTERTAINMENT LICENSE	3,320	3,320	3,320	3,320	3,320
011224 442010 MOTION PICTURE LICENSE		-	-	-	-
011224 442011 ACTIONEER LICENSE		-	-	-	-
011224 442012 COMMON VICTUALLER LICENSE	2,050	2,153	2,260	2,373	2,492
011224 442013 OTHER FOOD SERVICE LICENSE	20,647	20,000	20,000	20,000	20,000
011224 445001 SHELLFISH PERMITS		-	-	-	-
011224 445005 MISC/Deeds Tax	120	120	120	120	120
011224- 481004 Sale of Property	571				
011224 484004 PUBLIC RECORDS FEES	80				
011224 445005 MISCELLANEOUS REVENUE		-	-	-	-
TOTAL SELECTMEN - REV	94,541	93,973	94,083	94,198	94,319

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

	<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
011414 ASSESSORS - REV					

011414 432003 PHOTOCOPIES	1,200	1,200	1,200	1,200	1,200
011414-432045 ABUTTERS FEES	6,750	6,750	6,750	6,750	6,750
011414-4484099 MISCELLANEOUS					
TOTAL ASSESSORS - REV	7,950	7,950	7,950	7,950	7,950

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

	<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
011454 TREASURER - REV					
011454 431455 ADMINISTRATION FEES	-	-	-	-	-
011454 432003 PHOTOCOPIES	-	-	-	-	-
011454 432007 BOUNCED CHECK FEE	1,000	1,000	1,000	1,000	1,000
011454 480099 MISC	-	-	-	-	-
011454 482010 SALE OF BONDS	-	-	-	-	-
011454 482001 INVESTMENT REVENUE	25,000	25,000	25,000	25,000	25,000
011454 482011 Misc.	-	-	-	-	-
TOTAL TREASURER - REV	26,000	26,000	26,000	26,000	26,000
011464 COLLECTOR REV					
011464-414200 TAX TITLE					
011464-414400 DEFERRED TAXES REDEEMED	-	-	-	-	-
011464-414704 SEPTIC BETTERMENTS	25,000	24,000	24,000	24,000	24,000
011464 417001 PEN & INT REAL ESTATE TAXES	87,500	80,000	80,000	80,000	80,000
011464 417002 PEN & INT PERS PROP TAXES	17,000	16,000	16,000	16,000	16,000
011464 417003 PEN & INT MV EXCISE TAXES	92,000	90,000	90,000	90,000	90,000
011464 417004 PEN & INT BOAT EXCISE TAXES	4,000	4,100	4,203	4,308	4,415
011464 417005 PEN & INT TAX TITLE	-	30,000	30,000	30,000	30,000
011464 417006 PEN & INT DEFERRED TAXES	-	5,000	5,000	5,000	5,000
011464 417009 PENALTY & INTEREST LAND BANK	-	-	-	-	-
011464 417010 PEN & INT SEPTIC BETTERMENT	-	78	78	78	78
011464 417013 INTEREST CPC	-	-	-	-	-
011464 418001 IN LIEU OF TAXES LOCAL	53,000	54,325	55,683	57,075	58,502
011464 432001 COLLECTORS FEES & CHARGES	650	650	650	650	650
011464 432003 PHOTOCOPIES	-	-	-	-	-
011464 432008 MARKING FEES	15,000	15,000	15,000	15,000	15,000
011464 432009 MUNICIPAL LIEN CERTIFICATES	40,000	26,000	26,000	26,000	26,000
011464 484001 R E TAX	-	-	-	-	-
TOTAL COLLECTOR - REV	334,150	345,153	346,614	348,111	349,646

**Town of Harwich
Five Year Financial Plan**

9/30/2014

Local Receipts
General Fund

011614 TOWN CLERK - REV

011614 432003 PHOTOCOPIES

011614 432010 CHATTEL MORGAGE

011614 432011 DOG LICENSES

011614 432012 FISH/GAME FEES W/H

011614 432039 UTILITY POLES

011614 442017 BIRTH, MARRIAGE, DEATH CERT

011614 442018 BUSINESS CERTIFICATE

011614 445002 Raffle

011614 442020 MEDICAL CERTIFICATES

011614 445002 RAFFLE PERMIT

011614 445007 GASOLINE STORAGE

011614 445015 BURIAL

011614 468500 INCREASE POLLING HOURS

011614 477000 NON CRIMINAL FINES FIRE

011614 477001 NON CRIMINAL FINES POLICE

011614 477002 NON CRIMINAL FINES HEALTH

011614 477006 NON CRIMINAL FINES HARBOR

011614 477007 NON CRIMINAL FINES CONSERVAT

TOTAL TOWN CLERK - REV

011714 CONSERVATION - REV

011714 432038 GARDEN PLOTS

011714 436003 BOG LEASE

011714 437001 HEARINGS

011714 484099 COMSERV MISC REVENUE

TOTAL CONSERVATION - REV

011744 TOWN PLANNER - REV

011744 432003 PHOTOCOPIES

011744 432040 PLANNING LOCAL FILING FE

011744 437001 HEARINGS

011744 445005 MISC LICENSES/PERMITS

011744 484099 TOWN PLANNER MISCELLANEOUS R

TOTAL TOWN PLANNER - REV

	<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
011614 432003 PHOTOCOPIES	-	-	-	-	-
011614 432010 CHATTEL MORGAGE	-	-	-	-	-
011614 432011 DOG LICENSES	13,500	13,500	13,500	13,500	13,500
011614 432012 FISH/GAME FEES W/H	-	-	-	-	-
011614 432039 UTILITY POLES	80	80	80	80	80
011614 442017 BIRTH, MARRIAGE, DEATH CERT	18,750	18,750	18,750	18,750	18,750
011614 442018 BUSINESS CERTIFICATE	4,200	4,200	4,200	4,200	4,200
011614 445002 Raffle	-	-	-	-	-
011614 442020 MEDICAL CERTIFICATES	-	-	-	-	-
011614 445002 RAFFLE PERMIT	80	80	80	80	80
011614 445007 GASOLINE STORAGE	450	450	450	450	450
011614 445015 BURIAL	1,400	1,400	1,400	1,400	1,400
011614 468500 INCREASE POLLING HOURS	-	-	-	-	-
011614 477000 NON CRIMINAL FINES FIRE	600	600	600	600	600
011614 477001 NON CRIMINAL FINES POLICE	150	150	150	150	150
011614 477002 NON CRIMINAL FINES HEALTH	100	100	100	100	100
011614 477006 NON CRIMINAL FINES HARBOR	300	300	300	300	300
011614 477007 NON CRIMINAL FINES CONSERVAT	750	750	750	750	750
TOTAL TOWN CLERK - REV	40,360	40,360	40,360	40,360	40,360
011714 CONSERVATION - REV					
011714 432038 GARDEN PLOTS	3,030	3,030	3,030	2,850	2,850
011714 436003 BOG LEASE	4,750	5,000	5,000	5,000	5,000
011714 437001 HEARINGS	5,000	5,000	5,000	5,000	5,000
011714 484099 COMSERV MISC REVENUE	5,500	5,500	5,500	5,500	5,500
TOTAL CONSERVATION - REV	18,280	18,530	18,530	18,350	18,350
011744 TOWN PLANNER - REV					
011744 432003 PHOTOCOPIES	-	-	-	-	-
011744 432040 PLANNING LOCAL FILING FE	14,000	14,000	14,000	14,000	14,000
011744 437001 HEARINGS	11,000	11,000	11,000	11,000	11,000
011744 445005 MISC LICENSES/PERMITS	-	1,600	1,600	1,600	1,600
011744 484099 TOWN PLANNER MISCELLANEOUS R	-	-	-	-	-
TOTAL TOWN PLANNER - REV	25,000	26,600	26,600	26,600	26,600

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

<u>FY 2016 Budget</u>	<u>Five Year Plan FY 2017</u>	<u>Five Year Plan FY 2018</u>	<u>Five Year Plan FY 2019</u>	<u>Five Year Plan FY 2020</u>
011764 BOARD OF APPEALS - REV				
011764 437001 HEARINGS	10,000	10,000	10,000	10,000
TOTAL BOARD OF APPEALS - REV	10,000	10,000	10,000	10,000

**Town of Harwich
Five Year Financial Plan**

9/30/2014

Local Receipts
General Fund

	<u>FY 2016 Budget</u>	<u>Five Year Plan FY 2017</u>	<u>Five Year Plan FY 2018</u>	<u>Five Year Plan FY 2019</u>	<u>Five Year Plan FY 2020</u>
011514 Town Admin. - REV					
011514-420000 CVEC REVENUES	300,000	175,000	175,000	175,000	175,000
TOTAL CVEC - REV	300,000	175,000	175,000	175,000	175,000
012104 POLICE - REV					
012104 432015 POLICE ADMINISTRATION FEES	30,000	25,000	25,000	25,000	25,000
012104 427001 AUCTION	-	-	-	-	-
012104 432016 POLICE INSURANCE CO FEES	1,750	1,750	1,750	1,750	1,750
012104 432017 USE OF CRUISER POLICE	3,000	3,000	3,000	3,000	3,000
012104 442008 TAXI/LIMO	900	900	900	900	900
012104 445003 GUN PERMITS	4,800	4,800	4,800	4,800	4,800
012104 432050 FALSE ALARM FEES	500	500	500	500	500
012104 445005 MISC LICENSES/PERMITS	-	-	-	-	-
012104 468000 REG OF MV FINES	17,500	17,500	17,500	17,500	17,500
012104 468100 COURT DEFAULT WARRANTS	-	-	-	-	-
012104 469501 COURT FINES	2,000	2,000	2,000	2,000	2,000
012104 477004 PARKING VIOLATIONS	10,000	10,000	10,000	10,000	10,000
012104 477005 RESTITUTION	-	-	-	-	-
012104 484099 MISCELLANEOUS REVENUE	-	-	-	-	-
TOTAL POLICE - REV	70,450	65,450	65,450	65,450	65,450
012204 FIRE - REV					
012204 432003 PHOTOCOPIES	150	154	158	162	166
012204 432018 FIRE/OIL BURNER INSPECTIONS	30,500	32,000	32,000	32,000	32,000
012204 445006 Burn Permits	2,750	2,750	2,750	2,750	2,750
012204 445005 MISCELLANEOUS LICENSES/PERMITS	4,000	4,500	5,000	5,500	6,000
012204 445007 GASOLINE STORAGE	650	650	650	650	650
012204 484099 MISCELLANEOUS REVENUE	2,000	3,050	3,050	3,050	3,050
TOTAL FIRE - REV	40,050	43,104	43,608	44,112	44,616
012314 AMBULANCE - REV					
012314 437000 AMBULANCE FEES	1,275,000	1,450,000	1,450,000	1,450,000	1,450,000
012314 437010 AMBULANCE COLLECTOR					
TOTAL AMBULANCE - REV	1,275,000	1,450,000	1,450,000	1,450,000	1,450,000

Town of Harwich
Five Year Financial Plan

9/30/2014
Local Receipts
General Fund

<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
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012414 BUILDING - REV

Town of Harwich Five Year Financial Plan

9/30/2014

Local Receipts
General Fund

	FY 2016 Budget	Five Year Plan FY 2017	Five Year Plan FY 2018	Five Year Plan FY 2019	Five Year Plan FY 2020
010004-432029 MRSD HS Permits	-	-	-	-	-
012414 432003 PHOTOCOPIES	1,250	1,500	1,500	1,500	1,500
012414 432019 BUILDING INSPECTION	4,500	4,200	4,200	4,200	4,200
012414 445005 MISC LICENSES/PERMITS	16,000	16,000	16,000	16,000	16,000
012414 455008 BUILDING PERMITS	180,000	175,000	175,000	175,000	175,000
012414 455009 SIGN PERMITS	200	100	100	100	100
012414 455010 DEMO PERMITS	1,000	1,100	1,100	1,100	1,100
012414 455011 RENTAL DENSITY PERMIT	750	500	500	500	500
012414-455012 TRENCH Permits	2,500				
012414 494099 MISC REVENUE					
TOTAL BUILDING - REV	206,200	198,400	198,400	198,400	198,400
012424 GAS INSPECTION - REV					

012424 432020 GAS INPECTION	24,000	30,000	30,000	30,000	30,000
TOTAL GAS INSPECTION - REV	24,000	30,000	30,000	30,000	30,000
012434 PLUMBING					

012434 432021 PLUMBING INSPECTION	37,500	40,000	40,000	40,000	40,000
TOTAL PLUMBING	37,500	40,000	40,000	40,000	40,000
012454 ELECTRICAL REVENUE					

012454 432023 ELECTRICAL INSPECTION	55,500	55,000	55,000	55,000	55,000
TOTAL ELECTRICAL REVENUE	55,500	55,000	55,000	55,000	55,000
014394 WASTE DISPOSAL REVENUE					

014394 424701 DISPOSAL AREA STICKERS	765,400	850,000	867,000	884,340	902,027
014394 424702 DISPOSAL REGULAR FEES	462,250	525,000	535,500	546,210	557,134
014394 424703 DISPOSAL COMMERCIAL FEES	397,750	600,000	612,000	624,240	636,725
014394 427010 RECYCLE NEWSPAPER		30,000	30,000	30,000	30,000
014394 427011 RECYCLE BOTTLES		15,000	15,000	15,000	15,000
014394 427012 RECYCLE OTHER ITEMS		4,000	4,000	4,000	4,000
014394 427013 RECYCLE METAL		65,000	65,000	65,000	65,000
TOTAL WASTE DISPOSAL REVENUE	1,625,400	2,089,000	2,128,500	2,168,790	2,209,886

**Major Fee increase for tipping at
Seamass FY 2015**

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

	<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
015104 BOARD OF HEALTH					
015104 432003 PHOTOCOPIES	2,000	1,500	1,500	1,500	1,500
015104 432025 TEST HOLES	20,000	15,000	15,000	15,000	15,000
015104 432037 FLU CLINIC FEES	100	300	300	300	300
015104 442001 HOTEL, MOTEL, INN	550	500	500	500	500
015104 442002 STABLE	1,120	1,120	1,120	1,120	1,120
015104 442004 JUNK COLLECTOR/RUBBISH HAULE	600	750	750	750	750
015104 442007 MASSAGE LICENSE	-	-	-	-	-
015104 442013 OTHER FOOD SERVICE LICENSE	16,355	15,000	15,000	15,000	15,000
015104 442014 TOBACCO LICENSE	650	800	800	800	800
015104 442015 FUNERAL DIRECTOR LICENSE	150	100	100	100	100
015104 445005 MISC LIC/PERMITS	7,200	6,900	6,900	6,900	6,900
015104 445010 SEPTAGE CARRIER	2,000	2,500	2,500	2,500	2,500
015104 445011 SEWERAGE PERMITS	30,000	30,000	30,000	30,000	30,000
015104 445012 WELL PERMITS	750	1,000	1,000	1,000	1,000
015104 445027 SWIMMING POOL	2,900	3,000	3,000	3,000	3,000
015104 445029 HEALTH INPECTION FEES	30,000	30,000	30,000	30,000	30,000
015104 484099 MISC REVENUE	5,000	3,500	3,500	3,500	3,500
TOTAL BOARD OF HEALTH	119,375	111,970	111,970	111,970	111,970
015394 CHANNEL 18 TELEVISION STATION					
015394 432041 VIDEO TAPE COPIES		100	100	100	100
TOTAL CHANNEL 18 TELEVISION STATION	-	100	100	100	100
015404 COMMUNITY CENTER REVENUE					
015404 432044 PROGRAM FEES	1,850	2,000	2,000	2,000	2,000
015404 432049 PASSPORT FEES	5,000	5,000	5,000	5,000	5,000
015404 436004 BUILDING USE	16,000	16,000	16,000	16,000	16,000
015404 484098 COM CENTER WEIGHT ROOM USE	-	-	-	-	-
TOTAL COMMUNITY CENTER REVENUE	22,850	23,000	23,000	23,000	23,000

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
	11,250	11,250	11,250	11,250
TOTAL COUNCIL ON AGING	11,250	11,250	11,250	11,250

015414 COUNCIL ON AGING

015414 432044 PROGRAM FEES

TOTAL COUNCIL ON AGING

**Town of Harwich
Five Year Financial Plan**

9/30/2014
Local Receipts
General Fund

016104 LIBRARY REVENUE

	<u>FY 2016</u> <u>Budget</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2017</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2018</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2019</u>	<u>Five Year</u> <u>Plan</u> <u>FY 2020</u>
016104 447003 FINES	9,000	8,750	8,750	8,750	8,750
016104 484099 MISC REVENUE	-	-	-	-	-
TOTAL LIBRARY REVENUE	9,000	8,750	8,750	8,750	8,750

016304 RECREATION & YOUTH REVENUE

016304 432030 SUMMER PROGRAM FEES	20,000	10,000	10,000	10,000	10,000
016304 432044 PROGRAM FEES	3,000	2,000	2,000	2,000	2,000
0163004 436004 BUILDING USE	250				
016304 445013 BEACH STICKERS	275,000	250,000	250,000	250,000	250,000
016304 445014 BEACH PARKING	47,500	50,000	50,000	50,000	50,000
TOTAL RECREATION & YOUTH REVENUE	345,750	312,000	312,000	312,000	312,000

016334 HARBORMASTER REVENUE

016334 432002 TELEPHONE COMMISSION					
016334 432042 MOORING AGENT FEES	400	400	400	400	400
016334 436000 WHARFAGE	779,712	790,000	790,000	790,000	790,000
016334 436001 HARBOR FUEL CONCESSION	6,798	6,798	6,798	6,798	6,798
016334 436002 ALLEN HARBOR PARKING RENTAL	15,093	15,093	15,093	15,093	15,093
016334 445001 SHELLFISH PERMITS	6,758	6,758	6,758	6,758	6,758
016334 454010 HERRING FED REIMB	-	-	-	-	-
TOTAL HARBORMASTER REVENUE	808,761	819,049	819,049	819,049	819,049

016914-437001 Hearings

HISTORIC COMM HEARINGS	-	-	-	-	-
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Town of Harwich Five Year Financial Plan

9/30/2014
Local Receipts
General Fund

016954 GOLF OPERATIONS REVENUE

	<u>FY 2016 Budget</u>	<u>Five Year Plan FY 2017</u>	<u>Five Year Plan FY 2018</u>	<u>Five Year Plan FY 2019</u>	<u>Five Year Plan FY 2020</u>
016954 427002 SNACK BAR CONCESSION	7,500	7,500	7,500	7,500	7,500
016954 432031 GREENS FEES	780,000	750,000	750,000	750,000	750,000
016954 432032 DRIVING RANGE	57,000	51,832	51,832	51,832	51,832
016954 432033 PULL CARTS	7,500	7,722	7,722	7,722	7,722
016954 432034 RESIDENTS FEES	629,000	625,000	600,000	600,000	600,000
016954 432035 CAR RENTAL	230,000	225,000	200,000	200,000	200,000
016954 432046 NON RESIDENT GOLF MEMBERS	21,000	20,000	20,000	20,000	20,000
016954 432047 GOLF RANGE	16,000	7,000	7,000	7,000	7,000
016954 440000 Rate Increase	-	-	-	-	-
TOTAL GOLF OPERATIONS REVENUE	1,748,000	1,694,054	1,644,054	1,644,054	1,644,054

Sub Total Local Receipts 7,275,464 7,714,790 7,706,364 7,748,590 7,791,846

011464-484099 MOTOR VECH & BOAT.	\$ 1,950,000	\$ 1,725,000	\$ 1,800,000	\$ 1,800,000	\$ 1,800,000
011414 499001 MOTEL & HOTEL TAX	550,000	532,800	532,800	532,800	532,800
Sub Total Local Receipts	\$ 9,775,464	\$ 9,972,590	\$ 10,039,164	\$ 10,081,390	\$ 10,124,646
Meals tax .75%	330,000	312,300	312,300	312,300	312,300
<u>Total Local Receipts</u>	<u>10,105,464</u>	<u>10,542,012</u>	<u>10,610,250</u>	<u>10,653,532</u>	<u>10,697,869</u>
	4.5%	4.3%	0.6%	0%	0.4%

Check Trend increase
actuals also for Meals

Town of Harwich
Five Year Plan
2017-2021

	Budget	Five Year Plan	Five Year Plan	Five Year Plan	Five Year Plan	Five Year Plan	Line #	
Line #	<u>SOURCES OF FUNDS</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	Line #
1	Levy Limit	\$ 44,191,327	\$ 45,131,283	\$ 46,898,717	\$ 49,231,094	\$ 50,490,758	\$ 51,526,419	1
2	Local Receipts	10,105,464	10,542,012	10,610,250	10,653,532	10,697,869	10,743,100	2
3	<u>Other Revenues</u>							3
4								4
5	State Aid							5
6	Cherry Sheet	681,038	666,809	666,809	666,809	666,809	666,809	6
7	School Building Assistance	993,195	993,195	-	-	-	-	7
8	Overlay Surplus	100,000	100,000	100,000	100,000	100,000	100,000	8
9	<u>OFS (Transfers in)</u>							9
10	Waterways Mgmt.							10
11	Library State Grant	-	-	-	-	-	-	11
12	Comcast Operating	239,107	245,085	251,212	257,492	263,929	270,527	12
13	Septic Loan	17,358	17,250	17,250	17,250			13
14	Water Indirect	625,931	641,579	657,619	674,059	690,911	708,183	14
15	Harwich Emg. Mgt.	13,410	13,648	13,890	14,137	14,645	-	15
15-a	Road/ Harbor Betterments	195,945	274,490	479,945	464,650	450,635	433,265	15-a
16	CPC Funds	662,275	633,400	608,950	588,750	553,700	341,750	16
	TOTAL SOURCES	\$ 57,825,049	\$ 59,258,751	\$ 60,304,642	\$ 62,667,774	\$ 63,929,257	\$ 64,790,055	18
20	<u>USES OF FUNDS</u>							20
21	<u>Charges:</u>							21
22	RECAP, OffSets, Court Judg. Snow &	14,229	14,229	14,229	14,229	14,229	14,229	22
23	State-Cherry Sheet Charges	642,630	658,696	675,163	692,042	709,343	727,077	23
24	Overlay (Abatements- Taxes)	450,000	460,000	470,000	480,000	490,000	500,000	24
25	<u>TOTAL CHARGES</u>	<u>1,106,859</u>	<u>1,132,925</u>	<u>1,159,392</u>	<u>1,186,271</u>	<u>1,213,572</u>	<u>1,241,306</u>	25
26								26
27	NET AVAILABLE Sources	\$ 56,718,190	\$ 58,125,826	\$ 59,145,250	\$ 61,481,503	\$ 62,715,684	\$ 63,548,749	27
31	Operating Plan Town	\$ 21,195,927	\$ 21,626,809	\$ 22,066,698	\$ 22,515,786	\$ 22,974,271	\$ 23,442,352	31
32	<u>Fixed Cost</u>							32
33	Barnstable County Retirement	2,283,370	2,333,604	2,384,943	2,437,412	2,491,035	2,545,838	33
33-j	Debt Service	3,615,485	4,005,046	3,558,101	4,637,621	4,603,026	4,202,264	33-A
34	Health Insurance	4,129,202	4,459,538	4,905,492	5,396,041	5,935,645	6,529,210	34
35	Property & Liab. Insurance	548,561	601,917	631,263	662,076	662,076	694,430	35
	Capital Exclusion	736,071	-	-	-	-	-	
	OPEB		200,000	250,000	300,000	350,000	400,000	
37	Unemployment Insurance	35,000	35,000	35,000	35,000	35,000	35,000	37
38	<u>Total Fixed Cost</u>	<u>11,347,689</u>	<u>11,635,105</u>	<u>11,764,799</u>	<u>13,468,150</u>	<u>14,076,783</u>	<u>14,406,741</u>	38
39	<u>Education</u>							39
40	Cape Cod Tech	1,330,607	1,370,525	1,411,641	1,453,990	1,497,610	1,542,538	40
41-a	Monomoy Regional School District	22,843,944	23,676,772	24,413,886	25,168,545	25,961,592	26,805,344	41-a
42	TOTAL USES	\$ 57,825,026	\$ 59,442,136	\$ 60,816,416	\$ 63,792,743	\$ 65,723,828	\$ 67,438,282	42
45	NET SOURCES & USES	\$ 24	\$ (183,385)	\$ (511,774)	\$ (1,124,969)	\$ (1,794,571)	\$ (2,648,227)	45

\$ 46,674,106

TOWN OF HARWICH CAPITAL BUDGET REQUEST SUMMARY (FY 17 TO 23)												Original 10/6/2015		Revision #: 11/2/2015
Department	Project	P	Funding Source	BOS/CPC Approved	TA Rec	COC Rec	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Notes
ADMINISTRATION														
Admin	Harwich Center Initiative - StreetScape Only	1						\$ 50,000	\$ 500,000					TIP
Admin	Reuse or Demolition Harbormasters Building on Bank Street	1			\$ -		\$ -		TBD					BOS voted to retain 2019
Admin	Renovation of Former West Harwich School on Bells Neck	1	CPC		\$ -		\$ -							Admin/Citizen Application
Admin	Reuse or Demolition of Middle School Building on Sisson	1						TBD						Ballot Questions Anticipated
Admin	Queen Anne Road Pedestrian Crossing Lights (Bikeways Cmte)	1	CPC				\$ 29,700							
ADMIN SUB-TOTAL					\$ -	\$ -	\$ 29,700	\$ 50,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	
COMMUNITY CENTER														
Community Center	Roof Replacement	1B								\$ 240,000	\$ -			
Community Center	Carpet Replacement	1B							\$ 72,500	\$ -	\$ -			
Community Center	Gym Floor Resurface	1C					\$ 56,223							
Community Center	HVAC Repair and Updates	1A					\$ 105,000	\$ -						
Community Center	Generator Installation	1A									\$ 105,000	\$ -		
Community Center	Basement Constructions of Public Records Storage	1B						\$ 62,028						
COMMUNITY CENTER SUB-TOTAL					\$ -	\$ -	\$ -	\$ 161,223	\$ 134,528	\$ 240,000	\$ -	\$ 105,000	\$ -	
CONSERVATION														
Conservation	Harwich Artificial Reef (CPC Portion)		CPC				\$ 70,000		\$ -					
	Harwich Artificial Reef (Town Portion)		FC				\$ 30,000							
	Harwich Artificial Reef (Grant/Donations Porion)		Grants		\$ 175,000		\$ 175,000							
Conservation	Dog Fencing Area at Thompson's Field		CPC				\$ 52,000							
CONSERVATION SUB-TOTAL							\$ 327,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
FIRE														
Fire/Police/Other	Public Safety Radios for Police (\$554,968 of which 90% Grant)	1			\$ -		\$ -	\$ 499,471						
	Public Safety Radios for Police (\$55,497 of which 10% Match)						\$ -	\$ 55,497						
Fire	Public Safety Radios for Fire (Via Grant Town \$437,000)	1			\$ -		\$ -	\$ 393,300						
Fire	Public Safety Radios for Fire (Via Grant Town match \$43,700)	1					\$ -	\$ 43,700						
	Other Safety Radios (Water, DPW, Recreation and Emergency Mgmt)							\$ 300,000						
Fire	Ambulance (Scheduled Replacement)	1			\$ 290,000		\$ 290,000							
Fire	New Chief's Vehicle	1	FC		\$ 42,000		\$ 42,000							
Fire	Automated Chest Compression System for CPR (Total \$59,000 Grant 90%)	1	Grant		\$ 53,100		\$ 53,100							
Fire	Automated Chest Compression System for CPR (Total \$59,000 Match 10%)	1	FC		\$ 5,900		\$ 5,900							
Fire	Pumper Truck Replacement	1					\$ 425,000	\$ -						
Fire	Ambulance Replacement	1						\$ 320,000						
Fire	Pumper Truck Replacement	1							\$ 650,000					
Fire	Ambulance Replacement	1								\$ 353,000				
Fire	Ladder Truck Replacement	1									\$ 1,080,000			
Fire	Ambulance Replacement	1										\$ 390,000		
Fire	Forestry Truck Replacement	1					\$ -						TBD	
Fire	Station 1 Upgrade of Carpet, Tile and Floor covering	1B					\$ 50,000							
Fire	Station 2 Air Conditioning Replacement	1B					\$ 26,000							
Fire	Station One Boiler/Mechanical Room Equipment/HVAC	1B			\$ -		\$ 130,000							
Fire	Station Two Air Conditioning Replacement	2B			\$ -		\$ -							
Fire	Station One Carpet Replacement	1B					\$ -	\$ 23,300						
Fire	Station One Air Compressor	2B					\$ 12,000	\$ -						
Fire	Replace PlymoVent Exhaust System Stations 1 & 2	1B					\$ 103,000	\$ -						
Fire	Replace Overhead Door Apparatus Stations 1 & 2	1B						\$ 83,000	\$ -					
Fire	Station 2 Building Upgrade (Planning and Design)	1B					\$ 50,000	\$ -						
Fire	Station 2 Building Upgrade (Construction)	1B							\$ 4,000,000					
FIRE SUB-TOTAL					\$ 391,000	\$ -	\$ 609,000	\$ 1,593,268	\$ 703,000	\$ 4,650,000	\$ 353,000	\$ 1,080,000	\$ 390,000	
GOLF														
Golf	New Golf Cart Building and Parking Lot Improvments	1B					\$ -	\$ 1,200,000	\$ -					
GOLF SUB-TOTAL					\$ -	\$ -	\$ -	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	

Department	Project	P	Funding Source	BOS/CPC Approved	TA Rec	COC Rec	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Notes
HARBORMASTER														
Harbormaster	Saquatucket Harbor Waterside Construction	1			\$ -	\$ -	\$ 7,000,000	\$ -	\$ -					
Harbormaster	Saquatucket Harbor Landside Design and Construction	2B				\$ -	\$ 250,000	\$ 2,500,000	\$ -	\$ -				
Harbormaster	Project Round Cove Ramp Replacement and Bulkhead	1A							\$ 187,000					
Harbormaster	Study Allen Harbor Jetty Reconstruction	2B							\$ 50,000					
Harbormaster	Wychmere Public Bathrooms	3B			\$ -	\$ -	\$ -			\$ 75,000				
Harbormaster	Herring River Ramp Replacement	2A								\$ 65,000				
Harbormaster	Wychmere Outer Harbor Dredging	1B									\$ 500,000			
Harbormaster	Allen Harbor Jetty Reconstruction Study and Construction	1A									\$ 180,000	\$ 1,820,000		
Harbormaster	Wychmere Outer Harbor Jetty Study and Construction	1C										\$ -	\$ 75,000	
Harbormaster	SAQ Harbor East Bulkhead (Offloading Area)	1A								\$ -			\$ 300,000	
HARBORMASTER SUB-TOTAL							\$ 7,250,000	\$ 2,500,000	\$ 237,000	\$ 140,000	\$ 680,000	\$ 1,820,000	\$ 375,000	
LIBRARY														
Library	Preservation/Restoration of Historic Portions of Brooks Lib	A					\$ 800,000		\$ -					
Library	Replacement of Smoke, Heat and Duct Detectors	A					\$ 29,000			\$ -				
Library	Library Interior Modifications/Renovations	A			\$ -	\$ -	\$ -	\$ 100,000						
Library	Brooks Library Generator and Installation	A							\$ 110,000					
Library	Library Roof Replacement	A						\$ -		\$ 135,000				
LIBRARY SUB-TOTAL							\$ 829,000	\$ 100,000	\$ 110,000	\$ 135,000	\$ -	\$ -	\$ -	
NATURAL RESOURCES														
Natural Resources	Shellfish Lab at Wychemere Harbor	1A			\$ -	\$ -	\$ 20,000							
NATURAL RESOURCES SUB-TOTAL							\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PLANNING														
Planning	Exterior Historic Renovations - Albro House	1	CPC		\$ -	\$ -	\$ 30,000							
Planning	Interior Renovations - Albro House	1	FC		\$ -	\$ -	\$ 85,000							
Planning	Walkway Reconstruction Bank Street Center to Rte 28	2				\$ -	\$ 231,000							
Planning	Walkway Reconstruction Rte 28 SAQ to Harwichport	3				\$ -	\$ -	\$ 292,200						
Planning	Connection of rear TD Bank lot to Municipal Lot Harwichport	C				\$ -	\$ 30,000							
PLANNING SUB-TOTAL							\$ 376,000	\$ 292,200	\$ -	\$ -	\$ -	\$ -	\$ -	
POLICE														
Police	Carpets for Building				\$ -	Below \$50K	\$ 29,000	\$ -						Below Capital Threshold
Police	Painting various areas of Building						TBD							
POLICE SUB-TOTAL							\$ 29,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PUBLIC WORKS														
Public Works	5 Year Road Maintenance Plan	1B	DE		\$ 800,000	\$ -	\$ 1,495,167	\$ 1,432,957	\$ 1,359,396	\$ 1,471,881	\$ 1,500,000	TBD	TBD	
			Ch. 90		\$ 700,000	\$ -								
Public Works	Lower County Road					\$ -	\$ 200,000	\$ 3,500,000						
Public Works	Transfer Station Roof, Siding and Gutters	E1	FC		\$ -	\$ -	\$ 122,000							
Public Works	Certifies Used Articulating Lift	1	FC		\$ -	\$ -	\$ 80,000							
Public Works	High Track Skid Steer Loader	1				\$ -	\$ 65,000							
Public Works	MSW (Trash) Trailer	E1	FC		\$ -	\$ -	\$ 70,000							
Public Works	Mack Tractor					\$ -	\$ 150,000							
Public Works	Barber Surf Rake					\$ -	\$ 45,000							
Public Works	One Ton Dump Truck					\$ -	\$ 65,000							
Public Works	Vehicle Listing (FY 18 to 21) Summary	E1				\$ -	\$ -	\$ 365,000	\$ 250,000	\$ 340,000	\$ 260,000	TBD	TBD	
Public Works	Replacement of 1999 Gator					\$ -	\$ 20,234							
Public Works	Replacement of 2007 48 inch Walker Mower plus two mowers					\$ -	\$ 22,974							
PUBLIC WORKS SUB-TOTAL							\$ 2,312,401	\$ 5,297,957	\$ 1,609,396	\$ 1,811,881	\$ 1,760,000	\$ -	\$ -	

**TOWN Of Harwich
FISCAL YEAR 2016 - 2022 CAPITAL IMPROVEMENT PROGRAM**

Town Priority		Project	Estimated Required Funds						Funds Required	
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		FY 2023
L/E	1	Transfer Station siding/gutters	\$122,000						\$122,000	
L/E	2	Fire Station 1 Air compressors	\$12,000						\$12,000	
L/E	2	Fire Station 1 boiler, HVAC	\$130,000						\$130,000	
L/E	3	Brooks Library Exterior Preservation	\$800,000						\$800,000	
C	4	Fire Station 1 flooring	\$50,000						\$50,000	
L/E	5	Brooks Library heat/smoke detector	\$29,000						\$29,000	
L/E	6	Fire Station 2 HVAC	\$26,000						\$26,000	
L/E	7	Community Center HVAC controls		\$105,000					\$105,000	
L/E	8	Golf Maint roof, siding and gutters		\$115,000					\$115,000	
L/E	8	Golf Maint. Garage Boiler		\$22,000					\$22,000	
L/E	9	Fire Station plymoVent replacement		\$103,000					\$103,000	
N	10	Whitehouse Mower/chem Storage		\$30,000					\$30,000	
C	11	Community Center gymnasium floor		\$56,223					\$56,223	
L/E	13	Fire Station Apparatus doors			\$83,000				\$83,000	
C	14	Town Hall Carpet			\$48,600				\$48,600	
C	15	Community Center Carpet			\$72,500				\$72,500	
L/E	16	Brooks Academy Boiler			\$22,000				\$22,000	
N	17	Brooks Library Generator			\$110,000				\$110,000	
O	18	Community Center Basement			\$62,028				\$62,028	
L/E	19	Brooks Library Roof				\$135,000			\$135,000	
N	20	Wychmere Harbor Public Bathroom				\$75,000			\$75,000	
L/E	21	Community Center Generator					\$105,000		\$105,000	
N	22	DPW Building Maintenance Facility					\$225,000		\$225,000	
L/E	23	Community Center Roof						\$240,000	\$240,000	
S	24	Police Station Carpet	\$26,000						\$26,000	
TOTAL			\$1,195,000	\$431,223	\$398,128	\$210,000	\$225,000	\$105,000	\$240,000	\$2,804,351

S = Safety
O = Operational
L/E = Life cycle / Efficiency
C = Cosmetic
N = New

* Note* Areas not on plan awaiting decisions of use/requirements - Albro House, Harbor Master on Oak St, Old Middle School, Bells Neck schoolhouse.

TOWN OF HARWICH - COMMUNITY PRESERVATION COMMITTEE

**2015 CPA PROJECT FUNDING REQUEST APPLICATION
for
2016 ANNUAL TOWN MEETING**

Project Funding Request Application - FISCAL YEAR 2015-2016

APPLICANT INFORMATION

Applicant/ Organization: Harwich Conservation Commission

Submission Date: September 28, 2015

Address: 732 Main Street
Harwich, MA 02645

Phone: (508) 430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Project Manager: Amy Usowski, Conservation Administrator

Phone: (508) 430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Town Committee or Board (if applicable): Conservation Commission

Second Contact Person- name, address, phone number, email:

Walter Diggs, Chairman

204 Main Street, Harwich, MA 02645

(508) 432-0437

cordovawwd@aol.com

PROJECT INFORMATION

PROJECT TITLE: Nantucket Sound Artificial Reef

PROJECT AMOUNT REQUESTED: \$70,000

PROJECT DESCRIPTION:

A collaborative project with the Town of Harwich and Massachusetts Division of Marine Fisheries proposes to deploy building material from the demolished Harwich High School to create an artificial reef 2.6 miles off the entrance of Saquatucket Harbor in Nantucket Sound. The reef will create benthic habitat that will promote and attract a wide range of marine life and serve as a unique destination for recreational fishing and scuba diving. The Towns of Harwich and Yarmouth received a \$40,000 grant to fund site assessment and permitting for reefs off both towns. The Division of Marine Fisheries conducted site reconnaissance and selection and worked with the Town of Harwich to secure all necessary environmental permits. Funds are now needed to transport and deploy the concrete rubble from the High School to the reef location.

CPA CATEGORY: Please select all that apply

Open Space

Community Housing

Historic Preservation

Recreation X

HOW DOES THIS PROJECT FIT INTO HARWICH'S LOCAL COMPREHENSIVE PLAN and/or other PLANS?

The Local Comprehensive Plan and Town Recreational Plan highlight the need to preserve and enhance recreational and natural resource assets in Harwich. There is a long history of saltwater fisheries playing an important role in the commercial, recreational, and cultural heritage of Harwich. The reef location will provide close boat access outside of Wychmere and Saquatucket Harbors for sportfishing trips. The deployment of material from the Harwich High School provides an interesting, ongoing historical story for the Town to promote as scuba divers will be attracted to dive on the old high school.

HOW DOES THIS PROJECT BENEFIT THE CITIZENS OF HARWICH? IF APPROPRIATE, HAS THE APPLICANT SOUGHT PUBLIC OPINION OR INPUT? AND IF NOT, WHY NOT?

The geology of Nantucket Sound is dominated by sandy substrate with little rocky and irregular bottom especially in western locations off Harwich and Chatham. The rocky locations are much more productive than the uniform sandy areas both in terms of aggregating targeted fish species and supporting juvenile fish and non-targeted forms of marine life. This location close to Harwich's harbors will provide an excellent opportunity for bottom fishing by private, party and charter boats that will introduce many people to this recreation for decades to come with no maintenance costs. The creation of a dive destination will be a regional attraction as few suitable dive locations are found in close proximity to Harwich in Nantucket Sound.

The environmental review process included several public hearings and public comment periods. The comments received were highly supportive of the concept and location. The following permits have been received:

- 1.) Harwich Conservation Commission: DEP SE 32-2103, exp. March 2019
- 2.) MA DEP Chapter 91: exp. May 2044
- 3.) US Army Corps: exp. May 2024
- 4.) MEPA: exp. March 2017

ESTIMATED START DATE: Fall 2016

ESTIMATED COMPLETION DATE: December 31, 2017

PLEASE LIST OTHER COMMISSIONS/BOARDS/COMMITTEES/ORGANIZATIONS that may have involvement, jurisdiction, partnering, etc:

--Harbormaster and Conservation Commission. The Waterways Commission will be informed and updated on the project in October.

Describe their response: The project has been review by the Harbormaster and reviewed and approved by the Conservation Commission. The Harbormaster has been supportive since the project began and served as co-applicant on the environmental permit applications.

PROJECT BUDGET: This request would serve as match to funds provided by the Division of Marine Fisheries and additional grant funding as needed. All funds would go directly to the transportation of high school demolition material to the reef site. The Division of Marine Fisheries has committed to scuba diving monitoring of the deployment and subsequent colonization by marine life. Funds from this request would not be used for monitoring

COST ESTIMATE(S):

Robert Our Co. was consulted and provided a cost estimate of \$275,000 to transport the High School rubble from the DPW property to Saquatucket Harbor where it will load the material to a marine barge and then transport and dump the material at the reef site.

LAND and/or BUILDING ACQUISITION PROJECTS: Attach surveys, appraisals and agreements, if available. Please set forth name of present owner and attach copy of deed conveying property unto present owner. In addition to property address, please provide Harwich Assessor's Office identification (Map#, Parcel #). For proposed Open Space land purchases, be prepared to discuss public access with the Committee.

CPA Funds Received Previous Year(s) For This Project (if applicable): **NA**

Fiscal Year Total Cost CPC Funds Approved Town Meeting Article #

2010-11	_____
2011-12	_____
2012-13	_____
2013-14	_____
2014-15	_____

If project is expected to continue over more than one year, or if funding the project via full or partial bonding is anticipated, please detail the cost of project on the following chart (narrative explanation should be attached on a separate sheet).

Fiscal Year Total Cost CPC Funds Other Funding Estimated Funds from

Requested Sources Other Sources

2014-15	_____	_____
2015-16	\$70,000 (for reef deployment)	_____
2016-17	_____	_____
2017-18	_____	_____

ATTESTATION: I HEREBY ATTEST THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

Signature - Chief Executive Officer or Chief Administrative Officer Title or Board Chair

For Community Preservation Committee Use:

Project Request received on: Associated Town Committee(s): (initial)

Date(s) Reviewed On: Final Determination:

Approved: Denied: Date:

CPC Contact Information:

Robert MacCready - Housing Authority maccready@haconcapecod.org

David Purdy - Housing Committee capedave@yahoo.com

Robert Bradley - Historical Commission bradleybob60@yahoo.com

Janet Bowers - Rec.&Youth Commission janquiltoncc@gmail.com

Katherine Green - Real Estate&Open Space kagr58@gmail.com

Walter Diggs - Conservation Commission cordovawwd@aol.com

Peter de Bakker - Planning Board debakker.peter@gmail.com

Cindi Maule - Selectmen's Appointee cmaule@haconcapecod.org

Dan Tworek - Selectmen's Appointee dtworek@comcast.net

Please submit your project paperwork (12 complete copies) to:

Harwich Community Preservation Committee

c/o Harwich Town Hall, 732 Main Street, Harwich, MA 02645

TOWN OF HARWICH - COMMUNITY PRESERVATION COMMITTEE

**2015 CPA PROJECT FUNDING REQUEST APPLICATION
for
2016 ANNUAL TOWN MEETING**

Project Funding Request Application - FISCAL YEAR 2015-2016

APPLICANT INFORMATION

Applicant/ Organization: Harwich Conservation Commission

Submission Date: September 17, 2015

Address: 732 Main Street
Harwich, MA 02645

Phone: (508)430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Project Manager: Amy Usowski, Conservation Administrator

Phone: (508)430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Town Committee or Board (if applicable): Conservation Commission

Second Contact Person- name, address, phone number, email:

Walter Diggs, Chairman

204 Main Street, Harwich, MA 02645

(508)432-0437

cordovawwd@aol.com

PROJECT INFORMATION

PROJECT TITLE: Thompson's Field Dog Park

PROJECT AMOUNT REQUESTED: 52,000

PROJECT DESCRIPTION: The Harwich Conservation Commission has jurisdiction over the 50+ acre Thompson's Field Conservation Area. In the past few years, as off-leash areas across the cape have become fewer, more owners are electing to bring their dogs to run off leash here. Along with higher use has come a greater number of incidents between dogs and in some cases dogs and people. In an effort to accommodate those who wish for their dogs to be off leash, to create a safe environment for others visiting this conservation area, and for the benefit of the natural environment, the Harwich Conservation Commission would like to fence in approximately 2 acres on the northern side of the property off of route 39. Estimates for labor and installation of the fencing, and cost for installation of water service, are included in this application.

CPA CATEGORY: Please select all that apply

Open Space X

Community Housing

Historic Preservation

Recreation X

HOW DOES THIS PROJECT FIT INTO HARWICH'S LOCAL COMPREHENSIVE PLAN and/or other PLANS?

The Local Comprehensive Plan and the Open Space and Recreation Plan both state the need to preserve and enhance our recreational and natural assets in town. In the Goals and Objectives section of the Open Space and Recreation Plan, it highlights the need to increase the opportunities for passive recreation. By creating an off-leash area for dogs, more people with and without dogs may choose to come to the Thompson's Field Conservation Area. It will also enhance wildlife, as only having dogs in a fenced in area will allow wildlife to come back into the majority of Thompson's Field as there won't be dogs running loose over the entire property. This will enhance both the flora and fauna inhabiting the area.

The Thompson's Field Land Management Plan, adopted by the Conservation Commission in 1999, highlighted that dogs should be on leash to protect the rare habitats and wildlife that this conservation area possesses. It holds sandplain grassland/heathland habitat, a globally rare habitat. It is also home to the Eastern Box Turtle, a threatened species. A large fenced in area would allow for people to still exercise and socialize their dogs off leash, while protecting critical habitat and wildlife better. People would still be allowed to walk their dogs throughout Thompson's Field on a leash on the trails.

HOW DOES THIS PROJECT BENEFIT THE CITIZENS OF HARWICH? IF APPROPRIATE, HAS THE APPLICANT SOUGHT PUBLIC OPINION OR INPUT? AND IF NOT, WHY NOT?

By fencing in a large area, not only will those with dogs be able to use Thompson's Field, but the general public may feel more comfortable recreating in this conservation area. The Conservation Commission has had numerous reports from people stating they would go walk in Thompson's Field if they weren't so concerned about the number and lack of control of off-leash dogs. After submitting this application to the CPC, the Conservation Commission intends to hold a public meeting, or meetings if need be to gather additional input and support.

ESTIMATED START DATE: Fall 2016

ESTIMATED COMPLETION DATE: (Three years from the release of funds (July, 2016) - funds may be rescinded automatically; waivers may be sought)

Fall 2016

PLEASE LIST OTHER COMMISSIONS/BOARDS/COMMITTEES/ORGANIZATIONS that may have involvement, jurisdiction, partnering, etc:

Harwich Trails Committee

Describe their response: This topic will be on their October 2015 meeting agenda for discussion.

PROJECT BUDGET: Attach project budget estimates for your funding request. If the request involves a Town-owned asset, provide the project's projected operating expenses, including maintenance.

COST ESTIMATE(S): Attach cost estimates or firm quotes (if available) for all projects.

LAND and/or BUILDING ACQUISITION PROJECTS: Attach surveys, appraisals and agreements, if available. Please set forth name of present owner and attach copy of deed conveying property unto present owner. In addition to property address, please provide Harwich Assessor's Office identification (Map#, Parcel #). For proposed Open Space land purchases, be prepared to discuss public access with the Committee.

CPA Funds Received Previous Year(s) For This Project (if applicable):

Fiscal Year Total Cost CPC Funds Approved Town Meeting Article #

2010-11 _____

2011-12 _____

2012-13 _____

2013-14 _____

2014-15 _____

If project is expected to continue over more than one year, or if funding the project via full or partial bonding is anticipated, please detail the cost of project on the following chart (narrative explanation should be attached on a separate sheet).

Fiscal Year Total Cost CPC Funds Other Funding Estimated Funds from

Requested Sources Other Sources

2014-15 _____

2015-16 _____

2016-17 _____

2017-18 _____

ATTESTATION: I HEREBY ATTEST THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

**Signature - Chief Executive Officer or Chief Administrative Officer Title
or Board Chair**

For Community Preservation Committee Use:

Project Request received on: Associated Town Committee(s): (initial)

Date(s) Reviewed On: Final Determination:

Approved: Denied: Date:

CPC Contact Information:

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Peter de Bakker - Planning Board debakker.peter@gmail.com

Cindi Maule - Selectmen's Appointee cmaule@haconcapecod.org

Dan Tworek - Selectmen's Appointee dtworek@comcast.net

Please submit your project paperwork (12 complete copies) to:

Harwich Community Preservation Committee

c/o Harwich Town Hall, 732 Main Street, Harwich, MA 02645

TOWN OF HARWICH - COMMUNITY PRESERVATION COMMITTEE

**2015 CPA PROJECT FUNDING REQUEST APPLICATION
for
2016 ANNUAL TOWN MEETING**

Project Funding Request Application - FISCAL YEAR 2015-2016

APPLICANT INFORMATION

Applicant/ Organization: Harwich Conservation Commission

Submission Date: September 17, 2015

Address: 732 Main Street
Harwich, MA 02645

Phone: (508)430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Project Manager: Amy Usowski, Conservation Administrator

Phone: (508)430-7538

EMAIL Address: ausowski@town.harwich.ma.us

Town Committee or Board (if applicable): Conservation Commission

Second Contact Person- name, address, phone number, email:

Walter Diggs, Chairman

204 Main Street, Harwich, MA 02645

(508)432-0437

cordovawwd@aol.com

PROJECT INFORMATION

PROJECT TITLE: Thompson's Field Dog Park

PROJECT AMOUNT REQUESTED: 52,000

PROJECT DESCRIPTION: The Harwich Conservation Commission has jurisdiction over the 50+ acre Thompson's Field Conservation Area. In the past few years, as off-leash areas across the cape have become fewer, more owners are electing to bring their dogs to run off leash here. Along with higher use has come a greater number of incidents between dogs and in some cases dogs and people. In an effort to accommodate those who wish for their dogs to be off leash, to create a safe environment for others visiting this conservation area, and for the benefit of the natural environment, the Harwich Conservation Commission would like to fence in approximately 2 acres on the northern side of the property off of route 39. Estimates for labor and installation of the fencing, and cost for installation of water service, are included in this application.

CPA CATEGORY: Please select all that apply

Open Space X

Community Housing

Historic Preservation

Recreation X

HOW DOES THIS PROJECT FIT INTO HARWICH'S LOCAL COMPREHENSIVE PLAN and/or other PLANS?

The Local Comprehensive Plan and the Open Space and Recreation Plan both state the need to preserve and enhance our recreational and natural assets in town. In the Goals and Objectives section of the Open Space and Recreation Plan, it highlights the need to increase the opportunities for passive recreation. By creating an off-leash area for dogs, more people with and without dogs may choose to come to the Thompson's Field Conservation Area. It will also enhance wildlife, as only having dogs in a fenced in area will allow wildlife to come back into the majority of Thompson's Field as there won't be dogs running loose over the entire property. This will enhance both the flora and fauna inhabiting the area.

The Thompson's Field Land Management Plan, adopted by the Conservation Commission in 1999, highlighted that dogs should be on leash to protect the rare habitats and wildlife that this conservation area possesses. It holds sandplain grassland/heathland habitat, a globally rare habitat. It is also home to the Eastern Box Turtle, a threatened species. A large fenced in area would allow for people to still exercise and socialize their dogs off leash, while protecting critical habitat and wildlife better. People would still be allowed to walk their dogs throughout Thompson's Field on a leash on the trails.

HOW DOES THIS PROJECT BENEFIT THE CITIZENS OF HARWICH? IF APPROPRIATE, HAS THE APPLICANT SOUGHT PUBLIC OPINION OR INPUT? AND IF NOT, WHY NOT?

By fencing in a large area, not only will those with dogs be able to use Thompson's Field, but the general public may feel more comfortable recreating in this conservation area. The Conservation Commission has had numerous reports from people stating they would go walk in Thompson's Field if they weren't so concerned about the number and lack of control of off-leash dogs. After submitting this application to the CPC, the Conservation Commission intends to hold a public meeting, or meetings if need be to gather additional input and support.

ESTIMATED START DATE: Fall 2016

ESTIMATED COMPLETION DATE: (Three years from the release of funds (July, 2016) - funds may be rescinded automatically; waivers may be sought)

Fall 2016

PLEASE LIST OTHER COMMISSIONS/BOARDS/COMMITTEES/ORGANIZATIONS that may have involvement, jurisdiction, partnering, etc:

Harwich Trails Committee

Describe their response: This topic will be on their October 2015 meeting agenda for discussion.

PROJECT BUDGET: Attach project budget estimates for your funding request. If the request involves a Town-owned asset, provide the project's projected operating expenses, including maintenance.

COST ESTIMATE(S): Attach cost estimates or firm quotes (if available) for all projects.

LAND and/or BUILDING ACQUISITION PROJECTS: Attach surveys, appraisals and agreements, if available. Please set forth name of present owner and attach copy of deed conveying property unto present owner. In addition to property address, please provide Harwich Assessor's Office identification (Map#, Parcel #). For proposed Open Space land purchases, be prepared to discuss public access with the Committee.

CPA Funds Received Previous Year(s) For This Project (if applicable):

Fiscal Year Total Cost CPC Funds Approved Town Meeting Article #

2010-11 _____

2011-12 _____

2012-13 _____

2013-14 _____

2014-15 _____

If project is expected to continue over more than one year, or if funding the project via full or partial bonding is anticipated, please detail the cost of project on the following chart (narrative explanation should be attached on a separate sheet).

Fiscal Year Total Cost CPC Funds Other Funding Estimated Funds from

Requested Sources Other Sources

2014-15 _____

2015-16 _____

2016-17 _____

2017-18 _____

ATTESTATION: I HEREBY ATTEST THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

**Signature - Chief Executive Officer or Chief Administrative Officer Title
or Board Chair**

For Community Preservation Committee Use:

Project Request received on: Associated Town Committee(s): (initial)

Date(s) Reviewed On: Final Determination:

Approved: Denied: Date:

CPC Contact Information:

Robert MacCready - Housing Authority maccready@haconcapecod.org

David Purdy - Housing Committee capedave@yahoo.com

Robert Bradley - Historical Commission bradleybob60@yahoo.com

Janet Bowers - Rec.&Youth Commission janquiltoncc@gmail.com

Katherine Green - Real Estate&Open Space kagr58@gmail.com

Walter Diggs - Conservation Commission cordovawwd@aol.com

Peter de Bakker - Planning Board debakker.peter@gmail.com

Cindi Maule - Selectmen's Appointee cmaule@haconcapecod.org

Dan Tworek - Selectmen's Appointee dtworek@comcast.net

Please submit your project paperwork (12 complete copies) to:

Harwich Community Preservation Committee

c/o Harwich Town Hall, 732 Main Street, Harwich, MA 02645



CAPITAL PROJECTS REQUEST

1. Department: Planning Department
 3. Contact Person: David Spitz
 Phone #: 508-430-7511
 Email Address: dspitz@town.harwich.ma.us

2. Date Prepared: September 28, 2015

4. Project Title: Connection of rear TD Bank parking lot to municipal parking lot

5. Department Priority: C: Advantageous/Desirable
 Sequence:

6. Purpose of Project Request Form:

Add a new item to the program

7. Location: Harwich Port

8. Description: Will add approximately 25 parking spaces to help deal with overcrowded summer parking conditions in Harwich Port. See attached plan for project design and estimated cost.

9. Justification and Useful Life:
Lease period to be determined.

10. Requested Cost Estimates for:

2017	2018	2019	2020	2021	2022	2023
\$30,000						

If your estimate is indexed for inflation, indicate adjustment percentage (%) used:

Multi-Phase Project: Yes or No How many years to complete? 1 Average

11. Project Cost Summary:

Property acquisition:	\$0
Planning / Engineering / Legal:	\$1,000
Construction:	\$24,000
Furnishings / Equipment:	
Contingency / Other:	\$5,000
TOTAL COST:	\$30,000

12. Recommended Method of Financing:

Taxes / Current revenues:	\$30,000
Grants:	
Finance - Lease / Bonds:	
Capital reserve:	
Other:	
TOTAL FINANCING:	\$ 30,000.00

13. Net Impact on Operating Costs (+ or -):

Direct Operating Costs

Personnel: # of employees:	
Personnel: Full Salary/Benefit (
Purchased services:	
Materials and supplies:	
Equipment purchases:	
Utilities:	
Other:	
Indirect Operating Costs	
Fringe benefits:	
General administrative costs:	
Other:	
TOTAL OPERATING COSTS:	\$ -

14. Net Impact on Municipal Income (+ or -):

Taxes:	
Other income/Grants:	
Gain or loss from sale of replaced asset:	
TOTAL IMPACT ON INCOME:	\$ -

Reserved:

Committee Sign-Off:

Town Administrator Sign-Off:

COC Sign-Off:

*Individual sheet p/vehicle. Provide Fleet schedule with anticipated replacements.

R13

TOWN OF HARWICH - COMMUNITY PRESERVATION COMMITTEE

2015 CPA PROJECT FUNDING REQUEST APPLICATION

for

2016 ANNUAL TOWN MEETING

Project Funding Request Application - FISCAL YEAR 2015-2016

APPLICANT INFORMATION

Applicant/ Organization: Bikeways Committee Submission Date: September 21, 2015

Address: Fran Salewski, Chairman
PO Box 552
Harwich, MA 02645

Phone: 508-430-0123
EMAIL Address: fransalew@aol.com

Project Manager: Robert Cafarelli, PE
Phone: 508-430-7508
EMAIL Address: rcafarelli@town.harwich.ma.us

Town Committee or Board (if applicable): Bikeways Committee

Second Contact Person- name, address, phone number, email:
Shanna Nealy, PO Box 2, South Harwich, MA 02661
508-246-0970, shannaenealy@hotmail.com

PROJECT INFORMATION

PROJECT TITLE: Queen Anne Road Crossing Lights

PROJECT AMOUNT REQUESTED: \$29,700

PROJECT DESCRIPTION:

To install a motion sensor, solar powered system which will alert motor traffic that a bicyclist or pedestrian is approaching the intersection of Queen Anne Road and the Cape Cod Rail Trail. This intersection would require a total of 4 beacons (one for each direction and two early warning beacons) due to restricted sight lines and curve in the road. The use of solar panels eliminates the need for electricity. These lights would be of the same design/function as those installed at the Great Western Road and Route 39 crossing sites.

CPA CATEGORY: Please select all that apply

- Open Space
- Community Housing
- Historic Preservation
- X Recreation

HOW DOES THIS PROJECT FIT INTO HARWICH'S LOCAL COMPREHENSIVE PLAN and/or other PLANS?

The Cape Cod and Old Colony Rail Trails attract cyclists to our Town. The installation of crossing lights not only increase safety for visitors who contribute to the Town's economy but they ensure safer recreational activity for residents as well. Installation of beacons is within the right-of-way so no land acquisitions are necessary

HOW DOES THIS PROJECT BENEFIT THE CITIZENS OF HARWICH? IF APPROPRIATE, HAS THE APPLICANT SOUGHT PUBLIC OPINION OR INPUT? AND IF NOT, WHY NOT?

This project will provide a safer environment for cyclists and pedestrians on the Rail Trail and for motorists traversing Queen Anne Road. Safety at this crossing has been a concern to staff and residents for some time. An unsolicited email regarding the crossing site is attached.

ESTIMATED START DATE: July 2016

ESTIMATED COMPLETION DATE: (Three years from the release of funds (July, 2016) - funds may be rescinded automatically; waivers may be sought) October 2016

PLEASE LIST OTHER COMMISSIONS/BOARDS/COMMITTEES/ORGANIZATIONS that may have involvement, jurisdiction, partnering, etc:

The Department of Public Works will take part in the installation and maintenance of the lights. The Town Engineer will develop the bidding specifications for the equipment.

Describe their response:

PROJECT BUDGET: Attach project budget estimates for your funding request. If the request involves a Town-owned asset, provide the project's projected operating expenses, including maintenance.

COST ESTIMATE(S): Attach cost estimates or firm quotes (if available) for all projects.

LAND and/or BUILDING ACQUISITION PROJECTS: Attach surveys, appraisals and agreements, if available. Please set forth name of present owner and attach copy of deed conveying property unto present owner. In addition to property address, please provide Harwich Assessor's Office identification (Map#, Parcel #). For proposed Open Space land purchases, be prepared to discuss public access with the Committee.

CPA Funds Received Previous Year(s) For This Project (if applicable):

Fiscal Year	Total Cost	CPC Funds Approved	Town Meeting Article #
2010-11			
2011-12			
2012-13			
2013-14			
2014-15			

If project is expected to continue over more than one year, or if funding the project via full or partial bonding is anticipated, please detail the cost of project on the following chart (narrative explanation should be attached on a separate sheet).

Fiscal Year	Total Cost	CPC Funds Requested	Other Funding Sources	Estimated Funds from Other Sources
2014-15				
2015-16				
2016-17				
2017-18				

ATTESTATION: I HEREBY ATTEST THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

Francis Sabush *Chairman Brewster Comm. Itz*
 Signature - Chief Executive Officer or Chief Administrative Officer or Board Chair Title

For Community Preservation Committee Use:

Project Request received on: _____ Associated Town Committee(s): (initial)

Date(s) Reviewed On: _____

Final Determination:

Approved: _____ Denied: _____ Date: _____

CPC Contact Information:

Robert MacCready - Housing Authority	maccready@haconcapecod.org
David Purdy - Housing Committee	capedave@yahoo.com
Robert Bradley - Historical Commission	bradleybob60@yahoo.com
Janet Bowers - Rec.&Youth Commission	janquiltoncc@gmail.com
Katherine Green - Real Estate&Open Space	kgr58@gmail.com
Walter Diggs - Conservation Commission	cordovawwd@aol.com
Peter de Bakker - Planning Board	debakker.peter@gmail.com
Cindi Maule - Selectmen's Appointee	cmaule@haconcapecod.org
Dan Tworek - Selectmen's Appointee	dtworek@comcast.net

Please submit your project paperwork (12 complete copies) to:
 Harwich Community Preservation Committee
 c/o Harwich Town Hall, 732 Main Street, Harwich, MA 02645

Estimated Budget

Queen Anne Road/Rail Trail Crossing Lights

Quantity	Equipment	Cost	Total
2	Crossing Beacons	\$ 6,750.00	\$ 13,500.00
2	Early Warning Beacons	\$ 6,750.00	\$ 13,500.00
	10% Contingency	\$ 2,700.00	\$ 2,700.00
			\$ 29,700.00

*Estimated cost per beacon based on bids received in 2013 & 2014 for existing crossing beacons.

Fwd: Caution Light at Queen Ann Road bike path



Francis Salewski

Reply |

To: Bruce Paige <Bpaige55@verizon.net>; Sarver Len <lensans466@c ...

Mon 8/3/2015 8:18 PM

I am forwarding a request from a Harwich resident regarding a safety issue on Queen Anne Road and the CCRT crossing.

Thank You

Fran Salewski Chairman Harwich Bikeways Committee

Begin forwarded message:

From: Miki Ferrara <mickmar@verizon.net>

Date: August 3, 2015 3:19:22 PM EDT

To: fransalew@aol.com

Subject: Caution Light at Queen Ann Road bike path

Hi Fran

After some hunting thru Town Hall, the Planning Dept, the Highway Dept, the Admin. Office (all to no avail...no one had the info I was seeking) finally...David Spitz led me to the Bikeways Committee and your name.

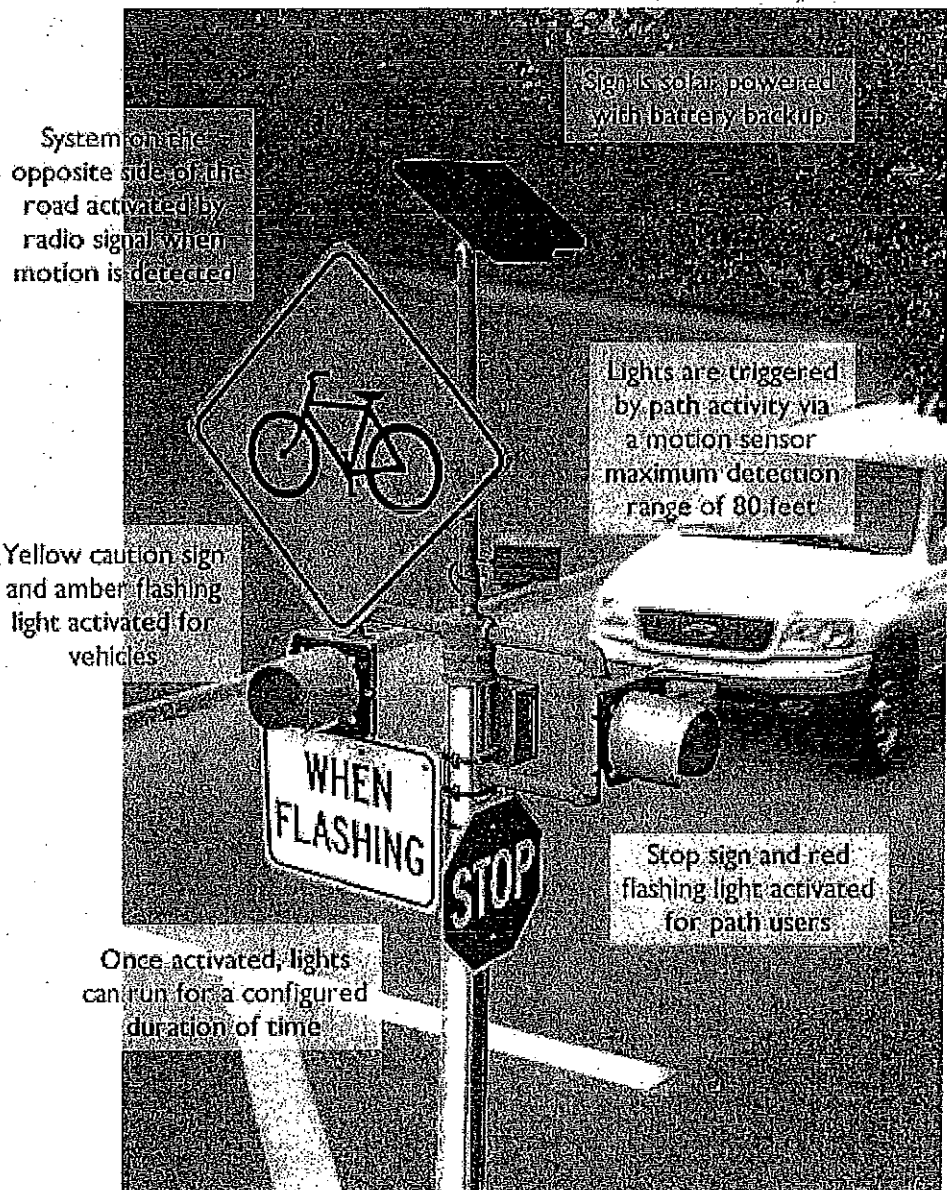
This email is seeking your help to get the necessary caution light on Queen Ann Road bike path crossing installed ASAP. I know it was supposed to happen this past year but it didn't so what can be done to push forward this very important installation?

I live on Riley Road and already this summer I am aware of two small rear enders and a car veering off the road to avoid bikers (the police were not called to my knowledge). The skid marks on the road are obvious reminders of not just that a serious accident could happen...it's when. I'm aware of two accidents that did in fact occur with bikers in the past couple of years at this crossing. Trucks (even 36 wheelers) speed down the road daily. I invite anyone on the Committee or Town Hall to park on the side street by this crossing especially on a Monday or Tuesday to view the amount of heavy truck traffic. Perhaps this will help convince the Committee to make this a priority for 2015 before it's too late.

Thanks for your help.

Marilyn Reynolds

Biker, Pedestrian, Driver and...Harwich Resident



The Cross Alert System is a motion activated, solar powered, radio controlled early warning system.

The Cross Alert system consists of an 8" red LED beacon and a stop sign which are presented to path users and a 12" amber LED beacon and warning sign which are presented to vehicular traffic.

The device is powered by a solar panel, which is backed up by a battery. The system is activated by path activity via a microwave-based motion detector. The companion device on the other side of the road is activated via radio signal when the first device detects motion on the path.

This system includes an integrated trail counter to provide a count of trail users who cross the intersection. Optional push buttons can be used for device activation as well.

All signage in our systems comply with MUTCD specifications.

Solar power significantly reduces installation costs for the system, eliminating the need for connection to the power grid.

Radio linkage between signs eliminates the need for hanging or burying wires. Our systems are capable of running in a configuration with up to four sign poles, all of which can be triggered together by path activity. This configuration provides for amber warning lights to be presented to oncoming vehicles up to 500 feet from the intersection.

The Cross Alert System can be purchased and installed at a fraction of the cost of a typical cross walk signaling system.

*Cross Alert Systems uses ISO 9001:2000 and ISO 9002 certified manufacturers. | Cross Alert Systems, Inc. © 2013 All Rights Reserved

RECREATIONAL PATH INTERSECTION SAFETY

CROSS ALERT SYSTEMS, INC.

Introduction

A large and growing network of rail trails, greenways and other recreational paths provide a safe area for path users to recreate away from vehicular traffic. Creating a safe intersection crossing for these trails where they intersect public roadways is an ongoing challenge, particularly at mid-block crossings.

Safety Options at Intersections

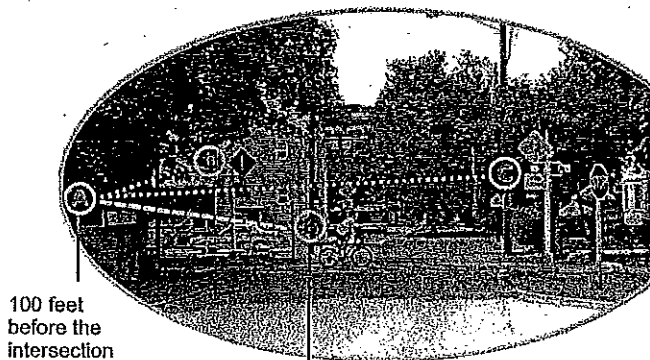
There are several different options available to address safety concerns at these intersections. Static road signs, for example, mark the crossing and warn vehicles of the upcoming path. Twenty-four hour flashing amber beacons also provide this warning. Path user-activated warning lights are another option that present flashing amber warning lights to approaching vehicles but only when a path user activates the lights. A fully functioning crosswalk system stops traffic for path users to cross at the intersection. Grade separation in the form of either an over or underpass takes path traffic off of the road altogether.

Selecting a Safety Option

Several factors are frequently taken into account when selecting a treatment for a given intersection:

- ◆ Quality of the sight distance from the road to the intersection
- ◆ Motor vehicle traffic speed
- ◆ Number of lanes of travel
- ◆ Traffic volume on both on road and path
- ◆ Cost

Cross Alert 2-Pole Intersection



Path user is detected by the Cross Alert System motion detector at point A.

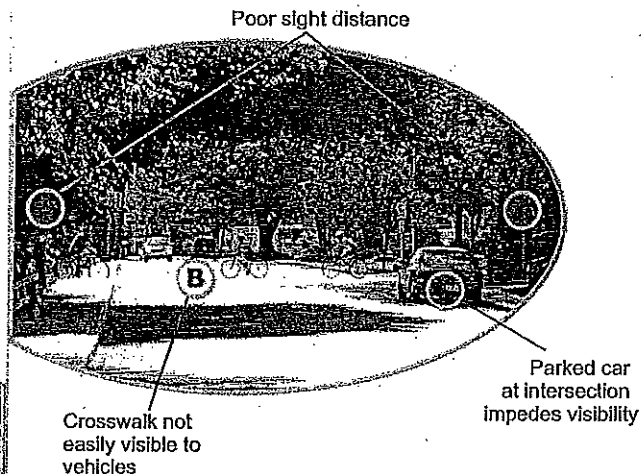
Motion sensor immediately triggers flashing lights on Cross Alert poles at points C.

The safest solutions are often the most expensive to implement. Grade separation of the trail and road does not interrupt the flow of traffic, but can cost anywhere from several hundred thousand dollars to several million dollars.

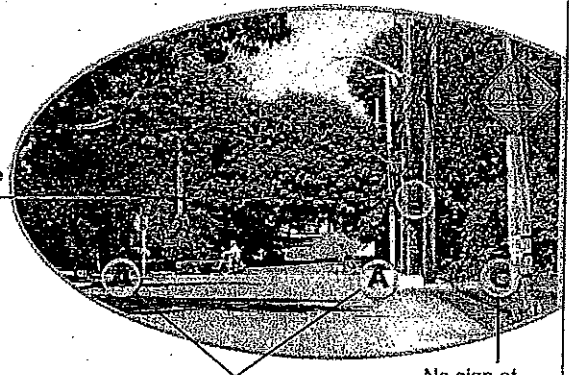
A fully functioning crosswalk that stops traffic to allow path users to cross can run from \$50,000 to \$150,000. There is often hesitancy to install this type of device due to the disruption of motor vehicle traffic flow. Crossings with multiple lanes of traffic and higher vehicle speeds require one of these solutions to most safely get path users across the road.

A lower cost solution provides what is known as an active warning to motorists that path users are at the intersection. Path users can activate this type of device either via a push button, or the device can detect path users and automatically flash warning lights (passive detection).

Poor Visibility Intersections



Telephone poles impede Visibility



Active warnings have been shown to be more effective than either static signs or 24 hour flashing signals. The latter devices are frequently ignored by motorists over time because they are always there and tend to blend into the surroundings.

When an active warning light is flashing, motorists will see a path user near the intersection, providing reinforcement that when the warning light is flashing extra precaution should be taken when approaching the intersection.

Active Warning

The Cross Alert system is an active warning device that detects path users passively using infrared detection. In our research leading up to the development of this system, we were surprised at how many path users did not activate a push button when one was present to facilitate a crossing.

Common reasons given for not utilizing the push button included the button's lack of proximity to the path, cyclists whose shoes were clipped into their pedals and who did not want to unclip, etc.

The incident that provided the impetus for Cross Alert was a novice roller blader who was unable to stop (or activate a button) as she entered a blind mid-block crossing uncontrollably.

Approaching motorists had to swerve into oncoming traffic to avoid hitting the roller blader. A passive detection system would have detected the out of control path user and forewarned vehicles to the presence of the roller blader.

Another surprise in our research was that intersections with quieter streets were often more dangerous than busier crossings. Path users tended to enter the quieter intersections more aggressively, knowing that the likelihood of an approaching car was low.

An astonishingly high number of path users of all ability levels would enter these intersections recklessly (at a high enough rate of speed that the path user would be unable to stop if a motor vehicle was entering the intersection). This behavior was observed even when the intersection was completely blind.

Design Considerations

To provide the most cost effective safety solution for mid-block crossings, we designed our motion activated system to be solar powered, utilizing radio signals for communications between poles.

This design decision eliminates all wiring and electrical installation costs, although a Cross Alert model is available that can be wired into the electric grid.

The radio signal can reach 500 feet from the intersection, which makes it possible to install an advance warning pole that can sit 500 feet in front of the intersection and flash when path activity is detected at the intersection.

In our design considerations, we wanted to reinforce to the path user that the user should stop before entering the

crossing. This is accomplished with a stop sign and a flashing red light that is activated when the pole detects path activity.

An integrated trail counter makes available a count of the number of trail users who have crossed the intersection.

Planner Feedback

A Cross Alert intersection system has been operating in Coventry, RI since July 2004, where the Coventry Greenway intersects State Highway 117. Coventry Parks and Recreation Department Director Guy Lefebvre noted that, "Prior to the Cross Alert installation, motorists often did not realize that they were crossing a trail until they were at the intersection, which has been a notorious problem [it is near a popular ice cream store]."

Following installation, path users are exercising greater caution when crossing RT 117, and we find that motorists are being more courteous and watchful at the intersection. Safety has been significantly enhanced at this intersection."

Designed for the Real World

Whenever a pole is placed in the ground along a roadway, engineering consideration must be given to the possibility of vehicle/pole crashes, wind storms, lightning strikes and other catastrophes.

In Arkansas, a Cross Alert device was struck and knocked down by a truck (successfully testing the breakaway abilities of the pole). Motorist/vehicle damage was minimized as designed. A replacement base was shipped out which was welded to the pole, minimizing the effort necessary to get the pole back in operational order.

In 2004, a Cross Alert installation in Sanford, Florida took direct hits from hurricanes Charley, Frances and Jeanne. The system survived the extreme weather unscathed, requiring no repairs or maintenance.

Conclusion: A Proven Technology that Works

Addressing safety concerns at recreational path/public road intersections is becoming increasingly important as path building and use accelerates.

Active warning systems play an increasingly important role as an affordable safety solution for mid-block crossings.

For more information, specifications or a brochure about the Cross Alert System please visit <http://www.crossalert.com> or phone toll free (866) CROSSALERT.

Cross Alert Systems, Inc.
20 Altieri Way Unit 3
Warwick, RI 02886
toll free 1-866-276-7725
www.crossalert.com

Cross
Alert
Systems

