

**Town of Brewster  
Bikeways Committee**

Mr. Paul Rushinkas, Chairman  
Community Preservation Committee  
Brewster Town Hall 2198 Main St.  
Brewster MA 02631

January 20, 2017

Re: Application for funding warning lights at CCRT crossings

Dear Mr. Rushinkas,

It is a pleasure to submit the Bikeways Committee's application for Community Preservation Act funds for the purchase and installation of warning lights at four intersections of the Cape Cod Rail Trail (CCRT) and town roads. The goal of the application is to improve the safety of the crossings, thereby promoting biking as a significant recreation opportunity and alternative mode of transportation in Brewster. The CCRT is the most significant biking and pedestrian infrastructure in Brewster, yet users frequently face dangerous situations because of interactions with vehicle drivers who are not prepared to yield, as required by state law.

Biking is a significant activity in Town as reflected in numerous local and state plans, including the Biking Brewster Strategy adopted by the Board of Selectmen, and public surveys. This project will help provide health and safety benefits for residents and visitors and will support the local economic activities that are in close proximity to the CCRT.

We would be pleased to answer any questions the Committee may have regarding this application,

Sincerely,

A handwritten signature in cursive script, appearing to read "Susan Riseman".

Susan Riseman  
Chairperson



**Town of Brewster**  
**Community Preservation Committee**  
2198 Main Street  
Brewster, Massachusetts 02631-1898  
(508) 896-3701 x 133  
Fax (508) 896-8089



## APPLICATION FOR COMMUNITY PRESERVATION ACT FUNDING

**Date Application Submitted:** Jan 20, 2017 \_\_\_\_\_

**Name of Project Applicant:** Brewster Bikeways Committee \_\_\_\_\_

**Name of Co-Applicant(s), if applicable:** \_\_\_\_\_

**Name of Contact Person:** Susan Riseman, Chairperson \_\_\_\_\_

**Contact Person's Mailing Address:** 33 Derby Lane, Brewster, MA 02631 \_\_\_\_\_

**Contact Person's Daytime Phone Number:** 508 525-7331 \_\_\_\_\_

**Contact Person's email Address:** Susan.Riseman@fmr.com \_\_\_\_\_

**Proposed Project Name:** Biking warning lights at CCRT crossings \_\_\_\_\_

**Project Address (or assessor's parcel ID):** Town of Brewster right-of-ways \_\_\_\_\_

**Project Synopsis:** The Brewster Bikeways Committee proposes the purchase and installation of warning lights at each crossing of the Cape Cod Rail Trail (CCRT), the most popular recreational biking facility in Brewster. CPA funding for \$100,000 is requested to purchase and install the equipment by a licensed contractor at the CCRT crossings at Rt. 124, Rt. 137, Underpass Road, and Millstone Road. The warning lights are solar-powered and have been installed at many locations on the CCRT crossings on Cape Cod. The Town's Department of Public Works (DPW) will oversee the procurement and installation phases of the project and will be responsible for maintenance. This project is part of a broader effort to enhance biking in Brewster and part of the re-pavement program by the Town which includes improvements to CCRT crossings.

**Category:** ☐ Open Space ☐ Historic Preservation ☒ Recreation ☐ Community Housing

**CPA funding requested \$** 100,000

**Total Cost of Proposed Project \$** 129,500



## 1. Project description

The Brewster Bikeways Committee proposes the purchase and installation of warning lights at each crossing of the Cape Cod Rail Trail, the most popular recreational biking facility in Brewster. CPA funding for \$100,000 is requested to purchase and install the equipment by a licensed contractor at the crossings at Rt. 124, Rt. 137, Underpass Road, and Millstone Road. The warning lights are solar-powered and have been installed at many locations on the CCRT crossings on Cape Cod. (One warning light may have to be direct feed, electrically powered because of insufficient access to direct sunlight, to be confirmed during the preparation of project specifications). A picture of similar equipment installed at the crossing on Rt. 124 in Harwich at Long Pond is attached. The Town's Department of Public Works (DPW) will oversee the procurement and installation phases of the project and will be responsible for maintenance. This project is part of a broader effort to enhance biking in Brewster and complements the re-pavement program by the Town.

The Cape Cod Rail Trail (CCRT) is the most significant biking infrastructure in Brewster and demonstrates its popularity with a variety of biking populations: young and old, individuals and families, and experienced and casual bicyclists. One has only to stop at a trail crossing on a summer weekend to see a large numbers of users of all types pass by, symbolic of the general interest in biking.

Indeed, biking is already a part of the local economy with a number of businesses benefitting from the popularity of the Rail Trail and the bike traffic it generates. Recognizing this, the Chamber of Commerce's Sustainability Action Plan calls for greater branding of Brewster as an ecotourism center and identifies expanding biking infrastructure as one of the pillars of the action plan. Further development of biking to key destinations and to shopping and restaurants will contribute to the Town's economic development. Studies have documented a significant benefit to local businesses as biking is encouraged.

A number of plans already recognize the importance of expanding biking opportunities in Town. In a citizen survey for the Brewster 2013 Open Space and Recreation Plan, over 60 percent of respondents identified bike trails as important, making them the fourth most requested facility. The Cape Cod Commission's Regional Transport Plan identifies regional biking routes that could pass through Brewster, in part using the CCRT, and the Commission's recent Livable Streets study for the eastern portion of Route 6A identifies ways to make that section of road more bike and pedestrian friendly. Expanding bike and pedestrian access to beaches was also identified as an important issue in the Brewster Coastal Advisory Group citizen survey.

In April 2016, the Brewster Board of Selectmen formally adopted the *Biking Brewster* strategy, prepared by the Bikeways Committee. The strategy's goals are to:

1. Expand recreational biking opportunities
2. Increase bike access to key destinations in Brewster
3. Establish links to regional bike routes
4. Enhance bike safety
5. Build public awareness of biking opportunities and safety



The proposed project is identified as a near-term action under Goal 4, Enhance bike safety, which calls for improving safety marking at key intersections, notably the CCRT crossings. In addition to the warning lights, the Bikeways Committee is planning other actions to build public awareness about bike safety. These may include providing safety information to residents and visitors when they obtain beach stickers at the Information Center, providing biking brochures including safety information at bike shops, and participating in an education program for J-1 visa holder summer employees at Ocean Edge.

This action also complements the Town's Department of Public Works Pavement Management Plan. The recently completed re-paving of Underpass Road included new pavement marking on CCRT crossings at Underpass Road (access ramp, stamped pavement and a stamped island) and Rt. 137 (access ramp, stamped pavement). The DPW expects to begin planning for the repaving of Millstone Road in 2017, a project which will also include enhancements to the CCRT crossing there, based on the Underpass Road model.

## **2. For Historic Preservation Projects: NA**

### **3. CPA Goals/Criteria:**

**Support multiple active and passive recreation uses:** This project will support the thousands of both pedestrian and biking users of the CCRT, making their use of the CCRT safer by alerting vehicles at CCRT crossings. CCRT pedestrian and bike users often encounter dangerous interactions at the crossings because vehicle drivers are not prepared to yield to pedestrians and bikers, as required by state law.

**Serve significant numbers of residents and visitors:** While there is no survey data on the number of pedestrians and bicyclists on the CCRT in Brewster, various sources, such as the Friends of the CC Rail Trail, have conservatively estimated the number in the tens of thousands. Area bike shops and hotels and resorts such as Ocean Edge, direct their clients to the CCRT as the primarily biking facility in Town.

**Expand recreational activities available to all ages of Brewster residents and visitors:** By making the crossings safer, the project expands the access to the CCRT to those who may be fearful of less protected street crossings with potentially dangerous interactions with vehicles.

**Promote the use of alternative corridors that provide safe and healthy non-motorized transport:** The primary objective of this project is to increase the safety of the CCRT as a corridor for bicyclists and pedestrians.

**4. Community benefits:** Improving the safety of the CCRT crossings will have both health and safety benefits as well as economic benefits. The project will enhance the "bike-ability" of the Town, a goal supported by several public plans and strategies and benefitting residents and visitors of all ages and biking abilities. Facilitating biking on the CCRT will also have the economic impact of benefiting the bike shops, restaurants, and other businesses within close proximity to the CCRT. Further, as the Chamber of Commerce's Sustainability Plan describes, Brewster's economic base is in the green sector and expanding bike and pedestrian uses supports that economic base.

**5. Community support:** As indicated in the Project description section, a number of recent surveys, including the Open Space Plan and the Beach Access Advisory Group, speak to the demand for improving bike access in Town. Planning documents such as the Chamber of Commerce's Sustainability Plan and the Biking Brewster Strategy, adopted by the Board of Selectmen, further support enhancing bike use in Town. This project is supported by the Brewster Police Department, which oversees the safety and security of road and trail users and by the Department of

Public Works which is responsible for the physical management of the Town's road networks and is currently undertaking road improvements under the Town's Pavement Management Plan. Letters of support from both agencies are attached.

**6. Timeline:** Assuming approval at the May 2017 Annual Town Meeting, we foresee the following schedule for procurement and installation of the warning lights.

- Develop bid specs                      June 2017
- Bid announcement, opening        July-August, 2017
- Order                                        August, 2017
- Installation                              October- November 2017

**7. Credentials:** The project will be under the joint supervision of the Bikeways Committee and the Town's Public Works Department. The DPW is responsible for the procurement of all Town contracts related to the Town's road improvement, therefore has the required understanding of the public procurement process and technical qualifications to oversee the project. The Bikeways representative for installation will be Rick Scannevin, a licensed electrician.

**8. Budget/Need for public funds:**

The various components of the initiative to improve safety at CCRT crossings are as follows.

A) The estimated budget for the CPA-funded portion of the project, the purchase and installation of the warning lights, is as follows:

Equipment	\$47,000
Installation	\$43,000
Contingency	\$10,000
Total	\$100,000

2016 quotes obtained by the Bikeways Committee for equipment purchase and installation are attached.

B) The estimated costs for other crossing improvements ( stamped pavement, marking, other) funded under the Pavement Management Program by various town road improvement funds, based on the experience on Underpass Road are:

Improvements per crossing:	\$7,000
Total at 4 crossings	\$28,000

C) The estimated costs for public safety messages and materials is \$1,500, funded out of Bikeways Committee funds authorized by Town Meeting. A statement from the Town Accountant's office on the status of the Bikeways account is attached.

D) Summary

Source	Item	Cost
CPA funds	Warning lights	\$100,000
Various town road funds	Marking, stamped pavement, other	\$28,000
Bikeways funds	Education materials	\$1,500
	Total	\$129,500

**9. Maintenance:** The maintenance requirements for the warning lights are minimal, generally consisting of checking the warning lights in May and October, cleaning the solar panels after the winter, and replacing the batteries once every seven years at a cost of \$300. The Town's DPW will provide the maintenance for the crossing lights.

**10. Site control:** The lights are all located on existing Town rights-of-way, therefore no property acquisition is required.

**Attachments:**

1. Picture for solar powered lights at Rt 124, Harwich
2. Quote for installation of crossing lights
3. Quote for purchase of crossing lights
4. Letter of support from Brewster Department of Public Works
5. Letter of Support from the Brewster Police Department
6. Bikeways account financial statement



Attachment 1: Solar powered warning light at CCRT/Rt 124 in Harwich





## Quote

**BELL TRAFFIC SIGNAL MAINT. CO., INC.**  
**41 MOORE RD.**  
**WEYMOUTH, MA 02189**  
**PHONE 781-340-1045**  
**FAX 781-340-9835**

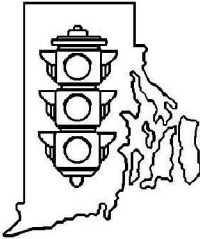
DATE: 8/30/16

TO: TOWN OF BREWSTER  
BIKEWAYS COMMITTEE  
ATTN: RICK SCANNEVIN

SALESPERSON	PROJECT	PAYMENT TERMS
JANINE GILL	Installation of RRFB's at 4 locations	30 DAYS

DESCRIPTION	AMOUNT
Loc. 1 - Rte. 137 at the crossing adjacent to the parking lot	\$ 11,000
Loc. 2 - Millstone Rd. crossing	11,000
Loc. 3 - Underpass Rd. crossing in front of the post office	11,000
Loc. 4 - Rte. 124 crossing, just north of Cromwell's Bog Rd.	13,500
Locations 1, 3 and 4 are solar powered. Location 2 has one solar powered pedestal and one that will require an electrical service. Price includes precast concrete foundations, labor and equipment to install solar power systems and pedestals supplied by others.	
Price is based on prevailing wage and includes police details.	

Attachment 3: Quote for equipment purchase



**Ocean State Signal Co.**  
 27 Thurber Blvd  
 Smithfield, RI 02917  
 Tel: 401-231-6780 Fax: 401-231-4390  
[www.oceanstatesignal.com](http://www.oceanstatesignal.com)

TO: Rick Scannevin  
 LOCATION: Brewster, MA  
 ITEM NUMBER: Solar RRFB Crosswalk System  
 INTERSECTION: Locations 1, 2, 3

DATE: 8/18/2016  
 FROM: James-Michael Trotta  
 DUE DATE:  
 PROJECT #:

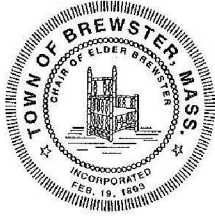
Quantity	ITEM/MATERIAL DESCRIPTION				
<b>1</b>	<b>Solar RRFB Crosswalk System c/o:</b>				
	4 (ea) RRFB-XL Light Bar w/ Ped Indication				
	2 (ea) 55W Solar Control System w/ Radio				
	4 (ea) 30" W11-15 Mix-Use Trail Crossing Sign	FYG			
	2 (ea) 24x12 W16-7L Down Left Arrow Sign	FYG			
	2 (ea) 24x12 W16-7R Down Right Arrow Sign	FYG			
	8 (ea) Sign Mounting Hardware Kit				
	2 (ea) Dual Motion / Presence Sensor w/ Bracket				
	2 (ea) Pushbutton w/ 9x12 Frame & R10-25 Sign				
	2 (ea) 14' Aluminum Pedestal w/ Transformer Base				
				<b>TOTAL</b>	<b>\$10,500.00</b>
	Notes:				
	A) Furnish Only				
	B) Does Not Include Concrete Foundations or Anchor Bolts				

**TERMS AND CONDITIONS:**

The above price is NET F.O.B shipping point with full freight pre-paid and allowed to one destination in Massachusetts.  
 Terms quoted are Net Thirty and this quote is guaranteed for 30 days.

**BEST REGARDS,**

**James-Michael Trotta**



## TOWN OF BREWSTER

### DEPARTMENT OF PUBLIC WORKS

201 Run Hill Road  
Brewster, Massachusetts 02631  
Tel: 508-896-3212  
Fax: 508-896-4540

Patrick Ellis  
Superintendent

James Jones  
Foreman

Mr. Paul Rachinkas, Chairman,  
Community Preservation Committee  
Town of Brewster, MA

January 18, 2017

Dear Mr. Rachinkas,

It is my pleasure to write in support of the Brewster Bikeways Committee application for Community Preservation Act funds for the purchase and installation of warning lights at the four intersections of the Cape Cod Rail Trail and town roads. The installation of these lights will greatly enhance safety at the road crossings, and thereby enhance biking as a recreational activity and as an alternative mode of transport in Brewster. The warning lights will also complement other work that the DPW has accomplished, particularly at the intersections of our future road improvement projects.

The Brewster DPW will partner with the Bikeways committee on this project to carry out the procurement and inspection of the installation. Since the lights will be on Town owned rights-of-way, they will become Town property and the DPW will assume the responsibility of maintaining them.

Sincerely,

R. Patrick Ellis, Superintendent  
Department of Public Works





## BREWSTER POLICE DEPARTMENT

Chief Richard J. Koch, Jr.

631 Harwich Road

Brewster, Massachusetts 02631

Phone 508-896-7011 [www.brewsterpolice.org](http://www.brewsterpolice.org) Fax 508-896-4525

January 18, 2017

Mr. Paul Ruchinskas  
Chairman-Community Preservation Committee  
Town of Brewster Town Hall  
2198 Main Street  
Brewster, MA 02631

Dear Mr. Ruchinskas,

The Brewster Police Department fully supports the recommendation made by the Brewster Bikeways Committee regarding the installation of warning lights at the Cape Cod Rail Trail crossings on Harwich Road, Long Pond Road, Underpass Road and Millstone Road.

During the summer months and the shoulder season here in Brewster, we see large numbers of people utilizing the Cape Cod Rail Trail for recreation. It could even be suggested that the Rail Trail is an attraction that brings people to and through Brewster.

While we appreciate the Rail Trail for what it is, we also recognize that anytime there is a convergence of pedestrian, bicycle, and motor vehicle traffic, there is opportunity for accidents resulting in injury or worse. We have certainly seen our share here in town at some of these crossings.

The Brewster Police Department continues to work on education and enforcement of traffic laws in these areas as they pertain to motorists, cyclists, and pedestrians. However, with the transient population that we experience during the busy season, it is impossible to reach everyone.

Warning light systems like the ones proposed by the Bikeways Committee have been working effectively in some surrounding towns. The system not only advises cyclists of their obligation to stop before crossing, but it also warns motorists that someone is approaching the crossing, thereby slowing traffic.

We thank you for your consideration of this matter as we look to improve safety for all those who work, live in, and visit Brewster.

Respectfully Yours,

*R.J. Koch*

Richard J. Koch Jr.

Chief

*"In Partnership With Our Community"*

Attachment 6: Bikeways account financial statement

Parameters: Fiscal Year 2017	Start Date	7/1/2016	end: 01/17/2017										
<b>Ledger History - Variance - Expenditure Ledger</b>													
			Transfer:			Journal Entry:		Reciept:		Payment:			
Account Number		Budget Encumbered	This Period To Date	Allocated		This Period To Date		This Period To Date		This Period To Date		Ending	% Var
001-050-100-122-1505-5380-200-99		4,841.05	0.00			0.00		0.00		0.00			
A5 STM 5/15 Captl - Bikeway Safety Improvem		0.00	0.00	4,841.05		0.00		0.00		0.00		4,841.05	0.00
		4,841.05	0.00			0.00		0.00		0.00			
1 Account(s) totaling		0.00	0.00	4,841.05		0.00		0.00		0.00		4,841.05	0.00