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HARWICH RECREATION DEPARTMENT & COMMISSION

**2020 COMMUNITY PRESERVATION COMMITTEE
FUNDING REQUEST**

**WHITEHOUSE FIELD LIGHTING PROJECT
PHASE 2**

**TOWN OF HARWICH - COMMUNITY PRESERVATION
COMMITTEE 2020 CPA PROJECT FUNDING REQUEST
APPLICATION
FISCAL YEAR 2021-2022**

Submission Date: 10/30/20

APPLICANT INFORMATION

Applicant: RECREATION DIRECTOR - ERIC BEERE

Town Committee, Board or Organization: RECREATION & YOUTH COMMISSION

Legal Mailing Address: 100 OAK ST HARWICH MA 02645

Phone: 508-430-7553 Email Address: ebeere@town.harwich.ma.us

Project Manager: Town Engineer, Recreation Director

Legal Mailing Address: 100 OAK ST HARWICH MA 02645

Phone: 508-430-7552 Email Address: ebeere@town.harwich.ma.us

Second Contact Person: JOHN MAHAN - Rec Commission Chairman

Legal Mailing Address: 100 OAK ST HARWICH, MA 02645

Phone: 508-331-8339 Email Address: jfmccaffee@aol.com

PROJECT INFORMATION

PROJECT TITLE: WHITEHOUSE FIELD LIGHTING PROJECT PHASE 2

PROJECT AMOUNT REQUESTED: \$ 100,000⁰⁰

PROJECT DESCRIPTION: SEE ATTACHED DOCUMENTS

ESTIMATED START DATE: Fall 2021

ESTIMATED COMPLETION DATE: By Spring 2022

Three years from the release of funds (July 2021) funds may be rescinded
automatically; waivers may be sought.

CPA CATEGORY

APPLICANTS PLEASE TAKE NOTE **please check boxes for all that apply**

- ☐ **Open Space:** This application is for the “acquisition, preservation, rehabilitation and/or preservation of open space”.
- ☐ **Historic:** This application is for the “acquisition, preservation, rehabilitation and/or restoration of historic resources”. Please provide the date on which the HDHC reviewed and endorsed this application.
- ☐ **Community Housing:** This application is for the “acquisition, creation, preservation and/or support of community housing”.
- ☒ **Recreation:** This application is for the “acquisition, creation, preservation, rehabilitation and/or restoration of land for recreational use”.

How does this project fit into Harwich's Local Comprehensive Plan and/or other Plan?

SEE ATTACHED DOCUMENTS

How does this project benefit the citizens of Harwich? If appropriate, has the application sought public opinion or input? If not, why?

SEE ATTACHED DOCUMENTS

Please list other Commissions/Boards/Committees/Organizations that may have involvement, jurisdiction, partnering:

<u>Commissions/Boards/Committees/Organizations</u>	Please have them initial here after their review
RECREATION & YOUTH COMMISSION	
Highway Department	
ENGINEERING DEPARTMENT	
Town ADMINISTRATORS OFFICE	
COMMUNITY PRESERVATION COMMITTEE	

Describe their response, or provided written comments/input:

SEE ATTACHED DOCUMENT

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

COST ESTIMATE(S): \$ 100,000.00

Attach cost estimates or firm quotes (if available) for all projects.

LAND and/or BUILDING ACQUISITION PROJECTS: The following must also be submitted, as applicable:

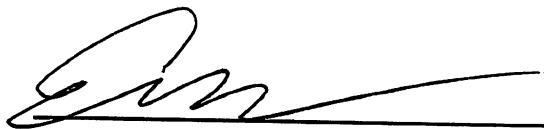
- ☐ Surveys and/or plot plans for the property
- ☐ Appraisals and agreements, if available.
- ☐ Name of present owner and attach copy of deed conveying property unto present owner.
- ☐ Property address, Harwich Assessor's property identification (Map#, Parcel #).
- ☐ For proposed Open Space land purchases, be prepared to discuss public access with the Committee.

By signing below, the Applicant represents and warrants that all the information included is true and correct to the best of the signer's knowledge and belief. Further, the Applicant acknowledges in the event that the Community Preservation Committee agrees to grant funds to Applicant (and subject to Town Meeting approval), this application together with any Terms and Conditions shall constitute a binding agreement, between the Applicant and the Community Preservation Committee. Further, Applicant acknowledges and agrees to execute any additional grant agreements should the Community Preservation Committee so request.

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 Board Chair

Title



Recreation Director

Printed Name

ERIC BEEBE

Date

10/30/20

APPLICATIONS MUST BE RECEIVED BY OCTOBER 30, 2020 NO LATER THAN 4 PM
Must submit eight (8) paper copies and if possible, a thumb drive (USB memory stick) containing a digital copy of the Application in a PDF file format.

WHITEHOUSE FIELD LIGHTING PROJECT

Whitehouse Field is one of the preeminent amateur baseball fields in New England and a very popular Recreational attraction for the Town of Harwich. It currently hosts our own Cape Cod Baseball League Harwich Mariners, as well as, the Monomoy Sharks Varsity High School Baseball Team. Whitehouse Field is also booked often for other private baseball organizations and is used for many special events highlighted by the ECAC Annual Division 3 Regional Baseball Championship Tournament. The amenities of Whitehouse Field include lights, press box, bleachers, bull pens, concession stand, merchandise stand, and batting cages. Whitehouse Field is one of the most valuable recreation assets that the Town of Harwich has and it is in the best interest of the Town and The Recreation Department and Commission to maintain it's current high status.

The Recreation Department and Commission is currently requesting funding in the amount of \$100,000 for phase 2 of the Whitehouse Field Lighting Project. This past year, Community Preservation Committee funded \$380,360 for this project and an additional \$75,000 was committed by the Harwich Mariners organization for Phase 1 of this project. Since receiving funds for this project, the Town Engineering Department, as well as, the Town Administrator's office has conducted an engineering and design study for this project from an outside engineering company. The results of this study concluded that the cost for this project would be higher than originally anticipated due to new and more advanced LED lighting systems available that would be more suitable for the project at hand. Therefore, we are requesting the additional funding in the amount of \$100,000 to complete this very valuable project for the Town of Harwich community. We, the Department and Commission, want to ensure that the project is done correctly and will provide a new system that is appropriate for the caliber of field that is Whitehouse and allow us to rely on this system for many years to come.

The current lighting system at Whitehouse Field was installed over 15 years ago and is antiquated in it's technology. In addition to this, the lighting structures that sit atop the poles are failing at an alarming rate. We have spent close to \$75,000 in the repair of these light structures over the past 4-5 years with no end in sight. The current system is at the end of it's useful life as indicated by failing bulbs, ballasts, wiring and the structure itself. Last fiscal year, we needed to request a \$20,000 emergency fund transfer from the Finance Committee to get the lights in working order for the busy summer baseball season.

We, the Recreation Department and Commission, submit this proposal as a means to maintaining the current status of Whitehouse Field and it's place in the notoriety of the Town of Harwich. We also see this as a fiscally responsible venture to eliminate future increased spending on maintenance on current failing lighting system.

We believe that a Recreational property like Whitehouse Field deserves the time and funding necessary to let it continue as a town recreational hub. It is unique in it's ability to bring people to our town, young and old, to enjoy one of the many attractions of Harwich.

CURRENT WHITEHOUSE FIELD USERS

- HARWICH MARINERS- CAPE LEAGUE BASEBALL
- MONOMOY VARSITY HIGH SCHOOL BASEBALL TEAM
- HARWICH RECREATION DEPARTMENT
- LOWER CAPE SENIOR BABE RUTH BASEBALL LEAGUE
- BASEBALL CLUBS OF CAPE COD AGES 18+
- BASEBALL CLUBS OF CAPE COD AGES 40+
- AMERICAN LEGION BASEBALL LEAGUE

SPECIAL EVENT WHITEHOUSE FIELD USES

- ECAC COLLEGIATE DIVISION 3 REGIONAL BASEBALL CHAMPIONSHIP TOURNAMENT
- CAPE COD CLASSIC LABOR DAY WEEKEND BASEBALL TOURNAMENT
- FRED THATCHER MEMORIAL ALUMNI HIGHSCHOOL BASEBALL GAME
- HARWICH MARINERS POSTSEASON PLAYOFF GAMES

WHITEHOUSE FIELD LIGHT USERS

- HARWICH MARINERS- CAPE LEAGUE BASEBALL
- MONOMOY VARSITY HIGH SCHOOL BASEBALL TEAM
- LOWER CAPE SENIOR BABE RUTH BASEBALL LEAGUE
- BASEBALL CLUBS OF CAPE COD AGES 18+
- BASEBALL CLUBS OF CAPE COD AGES 40+
- AMERICAN LEGION BASEBALL LEAGUE

TOWN DEPARTMENTS/COMMITTEES/GROUPS PROJECT INVOLVEMENT

HARWICH HIGHWAY DEPARTMENT

The Harwich Highway and Parks Department will assist in any prep work for the lighting system installation as well as handling routine maintenance once new system is in place. We conferred with Highway and Parks Department about the need for the new lighting system and the current lighting system's end of useful life.

RECREATION AND YOUTH COMMISSION

The Whitehouse Field Lighting Project and Community Preservation Committee Funding Application has been reviewed and approved by the Recreation and Youth Commission before October 30, 2020 submittal.

COMMUNITY PRESERVATION COMMITTEE

We are seeking funding for this project from the Community Preservation Committee and plan to present request to the Committee in the Fall of 2019. The Community Preservation Committee has, in the past, provided funds for several other Whitehouse Field Improvement Projects including: New Irrigation System, and New Infield.

HARWICH MARINERS

As the Harwich Mariners Cape Cod Baseball League Organization is the primary user of the lights at Whitehouse Field, we have worked closely with them to put together the specifications for the new LED lighting system proposed. The Harwich Mariners Organization is also working to raise funding to decrease the current request funding number.

WHITEHOUSE FIELD LIGHTING PROJECT PHASE 2 BUDGET/ITEMIZED FUNDING REQUEST

PROJECT TOTAL COST	\$551,286
INCLUDES MATERIALS, INSTALLATION AND DESIGN	
PREVIOUSLY ALLOCATED CPC APPROVED FUNDS	(\$380,760)
FINANCIAL CONTRIBUTION FROM HARWICH MARINERS	(\$75,000)
CHANGE/DIFFERENCE NEEDED TO COMPLETE PROJECT	\$95,526
CONTINGENCY ON PROJECT FUNDING	\$4,474
TOTAL FUNDING REQUEST FOR PHASE 2	\$100,000

ALTERNATES

10/7/2020

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SUBTOTAL				410,703
DESIGN CONTINGENCY		5 %		20,535
SUBTOTAL				431,238
ESCALATION (spring 2021)		2 %		8,625
TOTAL				439,863

WHITE HOUSE FIELD

Electrical:

Disc. existing scoreboard	1	EA	318.00	318
Disc. existing feeder	50	EA	2.52	126
30/20A/2P/3R	1	EA	268.00	268
Furnish Nevco scoreboard	1	EA	37,710.00	37,710
PVC-1"C-2#8 & 1#10	60	LF	4.70	282
F&I 30A c/b in pnl	1	EA	147.00	147
At shed D&R USL controller	1	EA	432.00	432
D&R all 5 ckts from panel to the existing controller	1	EA	241.00	241
F&I new Musco lgt control	1	EA	1,152.00	1,152
F&I new Musco sports clusters	6	EA	65,833.00	394,998
F&I 50A/3P c/b in exist. Pnl	6	EA	269.00	1,614
F&I 1 1/4"C-w/3#6 & 1#10 ckt	6	EA	254.40	1,526
Revamp exist. Pnl to accommodate 18 new poles	1	EA	1,170.00	1,170
Reconnect exist. Pole ckts to new Musco control	1	EA	826.00	826
- assumes reusing all existing U/G lgt ckts from 6 poles to shed				
Direct Job Expense	1	LS	10,000.00	10,000
Dispose of Score Board	1	LS	6,000.00	6,000
New Scoreboard footings	1	LS	10,000.00	10,000

SUBTOTAL				466,810
GENERAL CONDITIONS		10 %		46,681
SUBTOTAL				513,491
P&P BOND & INSURANCE		2 %		10,270
SUBTOTAL				523,761
FEE		5 %		26,188
SUBTOTAL				549,949

Prepared by: A. M. Fogarty & Associates, Inc.
HARWICH BROOKS AND WHITEHOUSE FIELD LIGHTING 9 - 20

ALTERNATES

10/7/2020

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DESIGN CONTINGENCY		5 %		27,497
SUBTOTAL				577,447
ESCALATION (spring 2021)		2 %		11,549
TOTAL				588,996

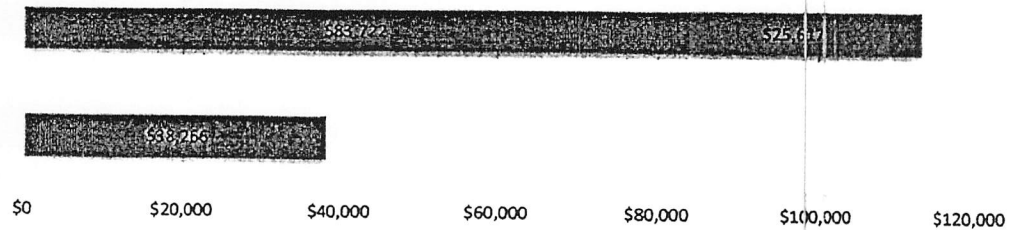
10-Year Cost of Ownership Comparison

Whitehouse Baseball Field LED Relight

Ben Layton
April 8, 2019

Existing 1500 Watt
Metal halide light source
221.7 kilowatts
136 luminaires

TLC for LED*
Diode light source
100.7 kilowatts
77 luminaires



Energy



Maintenance

How is this possible? Musco's 40 years of developing systems, light control, and application expertise puts more available lumens per watt on the field. Our services team provides all on/off operation, monitoring, and maintenance.

For your budget . . . for the environment

Musco LED



10-Year Ownership
Savings

\$75,259



CO2 reduction

165 tons**

** Equivalent to taking 35 cars off the road for one year

Assumptions

Annual operating hours

70/50 footcandles

Energy

200

Electric cost per kilowatt hour

\$0.14

Current energy per kilowatt hour

\$0.06

Maintenance

Annual maintenance cost per luminaire

\$0.65

Annual maintenance cost per luminaire

\$0.30

Controls

Annual lighting system on/off

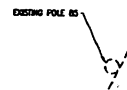
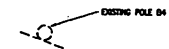
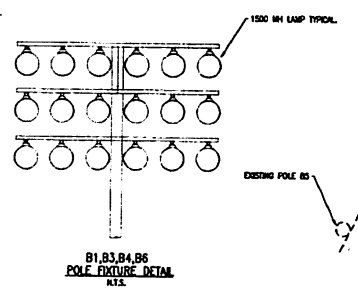
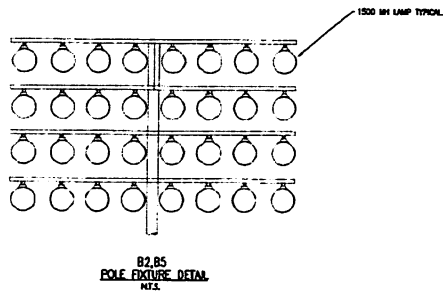
\$0.15

Wasted on extra time without controls

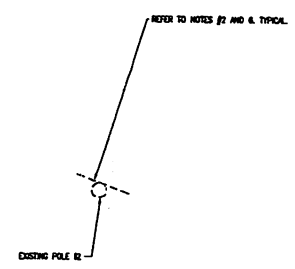
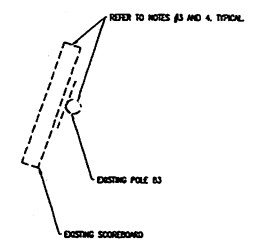
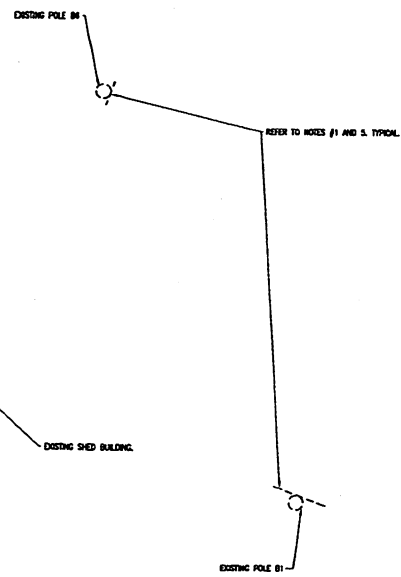
\$0



We Make It Happen



POLE HEIGHTS	
POLE	HEIGHTS
B1	105 FT
B2	90 FT
B3	90 FT
B4	90 FT
B5	90 FT
B6	105 FT



PRICING SCOPE OF WORK

- 1 - DISCONNECT, REMOVE AND DISPOSE OF THE 18 SPORTS FIELD LIGHTING FIXTURES AND ASSOCIATED MOUNTING BRACKETS, BALLASTS AND WIRING. REFER TO THE DETAIL ON THIS DRAWING. EXISTING LIGHTING STANDARD AND BASE TO REMAIN TYPICAL FOR FOUR STANDARDS.
- 2 - DISCONNECT, REMOVE AND DISPOSE OF THE 32 SPORTS FIELD LIGHTING FIXTURES AND ASSOCIATED MOUNTING BRACKETS, BALLASTS AND WIRING. REFER TO THE DETAIL ON THIS DRAWING. EXISTING LIGHTING STANDARD AND BASE TO REMAIN TYPICAL FOR TWO STANDARDS.
- 3 - DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING SCOREBOARD AND ASSOCIATED MOUNTING BRACKETS, THREE POLES/EDGES, AND FEEDER UNDERGROUND FEEDER LENGTH IS APPROXIMATELY 97'-0".
- 4 - FURNISH AND INSTALL NEW 100'-0" HIGH CUSTOM BRASS SCOREBOARD WITH CUSTOM LOGOS, DECORATIVE DETAILS, SPEED RUM AND CONTROLLER. REFER TO PIP SCOREBOARD QUOTE FROM INVOIC. PROVIDE NEW UNDERGROUND 50A-3P FEEDER FROM EXISTING PANEL. LENGTH OF UNDERGROUND FEEDER 50'-0". PROVIDE 50A-3P BREAKER IN PANEL.
- 5 - THE INTENT IS TO INSTALL A STEEL MOUNTING ARM WITH 18 LED SPORTS LIGHTING FIXTURES ON TOP OF THE STANDARD. PROVIDE NEW WIRING FROM THE JUNCTION AT THE CONCRETE BASE TO THE FIXTURES VIA THE LED DRIVERS. TYPICAL FOR FOUR STANDARDS.
- 6 - THE INTENT IS TO INSTALL A STEEL MOUNTING ARM WITH 32 LED SPORTS LIGHTING FIXTURES ON TOP OF THE STANDARD. PROVIDE NEW WIRING FROM THE JUNCTION AT THE CONCRETE BASE TO THE FIXTURES VIA THE LED DRIVERS. TYPICAL FOR TWO STANDARDS.
- 7 - IN THE SHED, DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING USL LIGHTING CONTROLLER INCLUDING CIRCUITS FROM THE POWER PANEL.
- 8 - PROVIDE A NEW MUSCO LIGHTING CONTROLLER IN THE SHED BUILDING.
- 9 - PROVIDE SIX 50A-3P BREAKERS IN THE EXISTING PANEL. PROVIDE SIX BRANCH CIRCUITS FROM PANEL TO THE MUSCO CONTROLLER. CONNECT THE SIX EXISTING FEEDERS FROM THE SPORTS LIGHTING TO THE NEW MUSCO CONTROLLER.
- 10 - ALL EXISTING UNDERGROUND CONDUIT AND WIRING FROM SHED TO EACH IS EXISTING TO REMAIN AND WILL BE REUSED.
- 11 - PROVIDE ALL REQUIRED LIFTS TO ACCESS THE SPORTS LIGHTING AT TOP OF THE 80'-0" AND 100'-0" STANDARDS.
- 12 - ALL SIX SPORTS LIGHTING STANDARDS AND SCOREBOARD ARE LOCATED IN GRASS AREA. PROVIDE THE REQUIRED PROTECTION TO PROTECT THE GRASS. ALL DAMAGE GRASS TO BE REPLACED WITH SOIL. ASSUME 200 SF FOR PRICING.

EXISTING SHED BUILDING.

EXISTING POLE B1

EXISTING POLE B2

EXISTING SCOREBOARD

TOWN OF HARWICH
BROOKS PARK
WHITEHOUSE FIELD
LIGHTING STUDY

Prepared By:

Thompson engineering company

CONSULTING ENGINEERS
10 HARVARD STREET SUITE 100 HARWICH MASSACHUSETTS 02543

Drawn/Revised:	
Date:	
Rev:	

Stamp:

PRICING SET	
Date:	08/26/20
Project No:	20021
Drawn:	JM / CAM
Checked:	EG / KM
Scale:	1"=60'-0"

Draw Name:

Whitehouse Field
Site Lighting
Plan

Draw No:

E-2



HARWICH MARINERS

PO Box 201, Harwich Port, MA 02646

Eric Beebe
Recreation Director
Town of Harwich
Recreation Department

Mr. Beebe,

The Harwich Athletic Association is excited to learn the Town of Harwich Recreation Department and Recreation Commission are seeking Community Preservation Act (CPA) funding for a retrofit of the light fixtures at Whitehouse Field in 2020. The aging field lighting system at Whitehouse Field is in dire need of an update and we would like to assist in the funding of this potential project in 2020.

The Harwich Athletic Association is committed to seeing this project come to fruition, our Board of Directors and many volunteers understand the need for properly working and efficient lights for the playing surface. The Harwich Mariners will commit a \$75,000.00 contribution towards the field lighting project at Whitehouse Field, if the CPA should select the project for its 2020 fiscal year funding.

Thank You and the Harwich Recreation Commission for your continued support of Whitehouse Field. Whitehouse Field is enjoyed and loved by thousands each year and we will continue to help keep the facility safe and user friendly however we can.

Ben Layton
General Manager
Harwich Mariners Baseball
Cape Cod Baseball League