



Hull Community Preservation Committee Final CPC Application Due: October 31, 2023

Office Use:
Date Received

IMPORTANT: If a project is town-owned, then you **MUST** get permission to submit a CPC application. Please allow enough time to get on the BOS agenda. It is also important to get before the proper board (Conservation, Historic, Park & Rec, Community Housing) to gain their support with your project.

Project Sponsor or Organization: Friends of Paragon Carousel

Address: 205 Nantasket Ave, Hull MA 02405MA

Contact Person: Tim Reynolds, Board Member

Phone #: 339-499-81748174

Email: jtreynolds689@gmail.com

Date: 10-31-23 31 23

Project Name: Replacement of historic light bulbs on Carousel structure with LED bulbs

Project location:
(Assessor's parcel/ID) 205 Nantasket Ave, Hull, MA 02045

Owner: Friends of Paragon Carousel owns the carousel structure

Request Amount: 7,336

Required When: 42024

What Category: Open Space ☐ Historical ☐ Community Housing ☐ Recreation ☐

Brief Description of Project: (use a separate page if you need more space)

The Carousel seeks to replacement the bulbs on the historic Paragon Carousel structure with LED bulbs that are historically consistent but much more energy efficient

If you do not have ownership or control of the Project Location/Address, have you received permission from the Owner to apply for funding regarding this project? Yes ☐ No ☐ * the Friends of Paragon Carousel owns the Carousel structure

Estimated Budget:

Requested Amount from CPA Fund	\$ 7,336
Funding from Non-CPA sources (if applicable)	\$ 0
Total Project Cost	\$ 7,336

(It is highly recommended that you include 3 estimates with your cost evaluation)

Project Description:

Answer the following questions in the order listed below. Refer to *Guidelines for CPA Funding Requests* while completing this application. Applications will be returned as incomplete if all information is not provided. Include supporting materials, as necessary.

- 1. Goals:** What are the goals of the proposed project? First, explain the relationship of those goals to those of the Community Preservation Act. Second, explain how the project advances the goals of Hull's most recent open space, land use, affordable housing and historic preservation planning documents.
- 2. Community Need and Public Benefit:** Why is this project needed? How does it benefit the public? Consider the following: people who will directly benefit from the completed project; resources that will be protected because of this project.
- 3. Timeline:** What is the schedule for project implementation? Include a timeline for all milestones. (**Note:** *Projects must be completed within two years of receipt of the grant award unless an extension is given for good cause.*)
- 4. Success Factors:** How will the success of this project be measured? Be as specific as possible.
- 5. Credentials:** How will the experience of the applicant(s) and any contractors contribute to the successful implementation of this project?
- 6. Other Funding:** What additional funding sources are available, committed, or under active consideration? Include copies of commitment letters or rejection letters and describe any other attempts to secure funding for this project.
- 7. Maintenance:** If ongoing maintenance is required to protect the CPA investment in your project, how will it be funded in the future?

Required Attachments:

- **Budget** – Outline the total budget for the project and how CPA funds will be spent. Break down the project by year of expenditure. Describe all funding sources. Where applicable, describe how much of the proposed CPA funding should be designated to each of the four CPA purposes. Make sure to consider the total cost required to complete the project (appraisals, environmental assessments, bidding requirements, copying, legal notices, etc.) and explain how they have been accounted for in this budget. This is particularly necessary for construction and land acquisition projects and can include contingency, up to any 10% of the budget. (**Note:** Non-Profit Organizations should also include a current financial statement.)
- **Control of Site:** Attach a statement indicating whether the applicant owns or has a purchase agreement for the property in the Project. If the property is under agreement describe the agreement, including timing and conditions. If the applicant does not have site control, please explain.
- **Community Support:** Include any relevant letters of support for the project including demonstration of other funding sources.
- **Historic preservation projects:** Are required to comply with the "Secretary of the Interior's Standards for the Treatment of Historic Properties" and consulting with a professional who has completed historic preservation projects using these standards. The Secretary of the Interior's Standards are published by the National Park Service and may be accessed online at: <https://www.nps.gov/tps/standards/treatment-guidelines-2017.pdf>
- **Photos:** Please be sure to send photos of your project. If your project is approved by CPC, your digital images will be used for presentations.

Email completed application to CPC Administrator at CPCAdmin@town.hull.ma.us

PROJECT DESCRIPTION

Goals:

The proposed project aims to replace the existing lighting on the historic carousel with energy-efficient LED lights, with primary goals of reducing energy consumption and operational costs. It also seeks to preserve the carousel's historic integrity and enhance safety and accessibility for visitors. Long-term sustainability is a central focus, as LED lights have a longer lifespan and require less maintenance. This project aligns with the Massachusetts Community Preservation Act (CPA) by promoting historic preservation, raising awareness, and fostering economic benefits. By demonstrating how the upgrade connects with the CPA's objectives and contributes to cultural and recreational opportunities, the project is eligible for CPA funding and support. The carousel structure is a recognize as an important historic asset by the Hull Historic Commission.

Community Need and Public Benefit:

The project to replace the historic carousel's lighting with energy-efficient LEDs directly benefits the public by improving safety and accessibility for visitors, preserving cultural heritage, and conserving energy resources. The transition to LED lights enhances safety, especially during evening hours, and ensures accessibility for all. Simultaneously, it maintains the carousel's historical charm, which local residents value. In essence, this project offers a dual advantage to the public: immediate improvements for visitors and long-term resource protection and economic vitality for the community.

Timeline:

As soon as this project is approved and funded, the Friends of Paragon Carousel will use the funds to purchase the needed bulbs (the desired bulb information is attached). We would expect to purchase and then install in the fall of 2024 after the regular season ends.

Success Factors:

The success of the project to replace the historic carousel's lighting with energy-efficient LED lights can be measured through several key indicators:

1. *Energy Consumption Reduction:* The primary metric for success is the reduction in energy consumption achieved by the installation of LED lights. A successful project should result in a significant decrease in energy usage compared to the previous lighting system.
2. *Operational Cost Savings:* The project's success can be measured by the amount of cost savings achieved in operational expenses related to lighting, such as maintenance and electricity bills. Lower costs indicate a successful transition to energy-efficient lighting.
3. *Preservation of Historic Integrity:* Preservation of the carousel's historic integrity is a qualitative measure, but it can be assessed through community feedback and expert

evaluations. Success would mean that the LED lighting installation seamlessly integrates with the historic ambiance and charm of the carousel.

4. *Improved Safety and Accessibility:* Success can be measured by looking at feedback from visitors, particularly those with mobility challenges, which can provide valuable insights into increased accessibility.
5. *Community Engagement:* The success of community engagement efforts can be gauged through the level of involvement from local residents in fundraising, volunteering, and design input. Increased community participation and support are indicative of project success in this aspect.
6. *Cultural and Recreational Enhancement:* Success in enhancing cultural and recreational opportunities can be assessed by increased visitor numbers, positive feedback, and any economic benefits generated for the local community, such as increased tourism revenue.
7. *Educational and Awareness Initiatives:* The success of educational efforts can be measured by assessing the extent of public awareness and understanding of historic preservation and energy efficiency. This can be done through surveys, workshops, or educational events.
8. *Economic Benefits:* Success in fostering economic benefits can be measured through economic impact assessments, job creation, and increased revenue for local businesses in the vicinity of the carousel.

Credentials:

The Friends of Paragon Carousel has received CPA funding support in the past and has used that funding to great effect regarding our continuous restoration of the carousel and its shelter. For this project, our restoration and safety specialist James Hardison will supervise the project. James has significant experience with maintaining the historical integrity of the carousel structure.

Other Funding:

We do not have any other funding sources for this project.

Maintenance:

We will use operational funds for maintenance of this project, primarily by supporting the cost of James Hardison's labor (our carousel safety and restoration specialist).

Budget:

Cost of each LED bulb:	\$3.00/each
Number of sockets:	1,056
Total cost of new LED bulbs:	\$3,168.00
Cost for replacement LED bulbs: * to avoid returning for additional funding, we are asking for cost of replacement bulbs as well	\$3,168.00
Est. cost for limited electric work to repair any broken sockets:	\$1,000.00
TOTAL BUDGET	\$7,336.00

Secretary of the Interior's Standards for the Treatment of Historic Properties

<https://www.nps.gov/tps/standards/treatment-guidelines-2017.pdf>

This project will be in complete compliance with the Secretary of Interior's Standards for the Treatment of Historic Properties.

At the October 10, 2023 meeting of the Hull Historic Commission it was recommended that any bulbs that be used for this project be historically accurate and representative of the time.

The particular bulbs that were chosen by our restoration specialist James Hardison fit this requirement.

Additionally, the standards from the Secretary of Interior regarding lighting systems are quite broad and allow for duplicating lighting fixtures from the historic period (see next page).

MECHANICAL SYSTEMS: HEATING, AIR CONDITIONING, ELECTRICAL, AND PLUMBING

RECOMMENDED	NOT RECOMMENDED
Installing new mechanical and electrical systems and ducts, pipes, and cables in closets, services areas, and wall cavities to preserve the restoration-period character of the interior space.	Installing ducts, pipes, and cables where they will obscure features from the restoration period. Concealing mechanical equipment in walls or ceilings in a manner that results in extensive loss or damage or otherwise obscures restoration-period building materials and features.
Installing air conditioning units, if needed, in such a manner that features from the restoration period are not damaged or obscured, and so that excessive moisture is not generated that will accelerate deterioration of materials from the restoration period.	
<i>The following Restoration work is highlighted to indicate that it involves the removal or alteration of existing visible features of the mechanical system that would be retained in Preservation and Rehabilitation treatments; and the replacement of missing visible features of the mechanical system from the restoration period using all new materials..</i>	
Removing Existing Features from Other Historic Periods	
Removing mechanical systems and their visible features from other periods, such as a later elevator.	Failing to remove or alter a visually-intrusive structural feature from another period, thereby confusing the depiction of the building's appearance from the restoration period.
Documenting mechanical systems and features from other periods prior to their alteration or removal. If possible, selected examples of these features should be stored for future research.	Failing to document structural features from other historic periods that are removed from the building so that a valuable portion of the historic record is lost.
Recreating Missing Features from the Restoration Period	
Recreating a missing feature of the mechanical system that existed during the restoration period based on documentary and physical evidence; for example, duplicating a heating vent or lighting fixture.	Constructing a mechanical system or feature that was part of the original design for the building but was never actually built, or constructing a feature which was thought to have existed during the restoration period but cannot be documented.

BULBRITE



4.8 (5)

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75 Lumens - 1 Watt - 2700 Kelvin - LED S14 Bulb

11 Watt Equal - Incandescent Match - Clear - 120 Volt - Bulbrite 776685



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SKU: BULBRI-10112



\$2.65 ea.

Alternate Products



IRT-10311

180 Lumens - 2 Watt - 2700 Kelvin - LED S14 Bulb

25 Watt Equal - Incandescent Match - Clear - 120 Volt - Euri Lighting ES14-2W1120

\$1.40 ea.



BULBRI-10111

75 Lumens - 1 Watt - 2400 Kelvin - LED S14 Bulb

11 Watt Equal - Color Matched For Incandescent Replacement - Clear - 120 Volt - Bulbrite 776684

\$2.19 ea.



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35 Lumens - 1 Watt - 2000 Kelvin - LED S14 Bulb
11 Watt Equal - Color Matched For Incandescent Replacement - Amber-Tint - 120 Volt - Green Creative 36078

\$3.45 ea.



BULBRI-776851

250 Lumens - 3 Watt - 2700 Kelvin - LED S14 Bulb

25 Watt Equal - Incandescent Match - Clear - 120 Volt - Bulbrite 776851

\$3.69 ea.

Details



This product is ineligible for shipping to the following states: CA

Description

- Soft white color is similar to incandescent
- 5 times the lifetime of incandescents
- Great for indoor and outdoor use
- Provides decorative lighting

Use this 0.7-Watt LED filament bulb in stringers, signs, refurbished antique fixtures, or other decorative fixtures to create an elegant vintage aesthetic at any location or event.

Brochures & Spec Sheets

 [Bulbrite 776685 Spec Sheet \(https://a89b8e4143ca50438f09-7c1706ba3fabeeda794725d88e4f5e57.ssl.cf2.rackcdn.com/spec_sheets/files/000/063/945/original/bulbrite-776685-specs.pdf?1524494344\)](https://a89b8e4143ca50438f09-7c1706ba3fabeeda794725d88e4f5e57.ssl.cf2.rackcdn.com/spec_sheets/files/000/063/945/original/bulbrite-776685-specs.pdf?1524494344)

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Product Attributes

Brand	Bulbrite
MPN (Part No.)	776685
UPC	739698766850
Lighting Technology	LED
Dimmable	No
Bulb Shape	S14
CRI	Standard CRI
Color	Warm White
Bulb Color	Clear
Color Temperature	2700 Kelvin
Life Hours	15,000
Wattage	0.7 Watt

Incandescent Equal	11 Watt
LPW	107
Lumens	75
Enclosed Fixture Rated	Yes
Voltage	120
Ratings and Certifications	UL /Wet Location
Base Type	Medium (E26)
Filament Type	Vertical
Height	3.3 in.
Diameter	1.8 in.
Warranty	1-Year Limited
Case Quantity	10



