Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2025/2026
Beach Projects Application

PART I: GENERAL INFORMATION

Local Sponsor: City of Key West

Federal ID Number (FEID): 59-6000346

Primary Contact Name: Jennifer Perez Title: Special Projects Designer

Mailing Address Line 1: City of Key West

Mailing Address Line 2: 1300 White Street

City: Key West Zip Code: 33040 Telephone Number: 305-809-3951

Email Address: jennifer.perez@cityofkeywest-fl.gov

Additional Contact Information

Ian McDowell, City Engineer
305-809-3753
ian.mcdowell@cityofkeywest-fl.gov

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name: Todd Stoughton Date: 7-31-24

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PART III: EVALUATION CRITERIA

1. Project Name: (as listed in the Strategic Beach Management Plan)

Smathers Beach Nourishment and Monitoring Project

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

The Smathers Beach Nourishment and Monitoring Project is located in Monroe County, Florida, specifically at the DEP reference monument V-412 along the Straits of Florida in the City of Key West.

Project History: Smathers Beach has been nourished since the 1960s, with significant nourishment events in 2000, 2001, 2011, 2013, and 2019. The most recent nourishment in 2019 involved the placement of 19,925 tons of sand across the 3,000-foot shoreline of Smathers beaches. This nourishment addressed damages from Hurricane Irma and included sand placement and dune repair.

Proposed Activities: The current project for FY 2025-26 includes beach re-nourishment (completed in August 2023), reimbursement, and continued monitoring of erosion and biological impacts. The project aims to reinforce the shoreline by maintaining the recently placed sand and repairing dunes, thereby mitigating erosion and providing continued protection to the beach. Additionally, the project will involve ongoing monitoring of the beach to assess erosion and biological impacts, ensuring compliance with state and federal permits. The monitoring activities will include annual engineering surveys, seagrass monitoring, and assessments of benthic resources to document changes in the nearshore habitats and support future nourishment efforts.

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3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, Monitoring, or USACE Multiphase). Indicate which tasks are cost reimbursement from previous fiscal years.

Feasibility: There are no feasibility tasks for this project as the beach re-nourishment was completed in August 2023.

Design: The design phase involves acquiring professional services for the engineering and design necessary for the project, including coastal engineering analyses, preparation of plans and specifications, physical and environmental surveys, and obtaining environmental permits. This phase has already been completed, and costs are being requested for reimbursement from the previous fiscal years.

Construction: The construction phase includes the work performed for the placement of fill material and the construction of erosion control structures within the project area. This phase was completed in August 2023, and the current application seeks reimbursement for these construction activities. Eligible costs include mobilization, demobilization, construction observation or inspection services, physical and

4. Map: Provide as an attachment. The map(s) of the project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.

Map elements must include:

1. **Project boundary:** DEP reference monuments and shoreline designated as critically eroded
2. **Eligibility:** Indicate lengths of eligible shoreline based on criteria outlined in Chapter 62B-36.007, F.A.C**.**
   a. Beach access locations: indicate primary or secondary access, and include the shoreline length, number and location of auto parking spaces, mass transit stops, bike parking spaces, and public restroom facilities within 1/4 mile walking distance of each access
   b. Public lodging establishments: include the length fronting the project shoreline, and include the length of street-side frontage for lodging within 1/4 mile walking distance of a secondary beach access location
3. **Recreational benefits:** Comprehensive list of current land use designations of properties fronting the project shoreline
4. **Value of upland property:** Include one-quarter mile buffer and provide a comprehensive list of the values of properties (data from year 2023) that are enclosed or intersected by the buffer. The 2023 property value tax roll data and ArcGIS shapefiles can be obtained from the Department of Revenue website: https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx. See Guidance Document for more information.

5. Project length: Total restored project length (in feet) of the critically eroded area (as listed in the Strategic Beach Management Plan).

3,000 feet

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6. Eligibility: Required for all beach projects pursuant to Chapter 62B-36.007, F.A.C. Provide as a separate attachment, if needed.

- Location/Access Name: Use the official name of the park or road that is associated with the public access.
- DEP Reference Monument: Use the DEP monument that is closest to the main public access location.
- Type of Access: Indicate Primary or Secondary beach access in accordance with the definitions in Chapter 62B-36, F.A.C.
- Width of Access/Frontage: The length of the legal boundary (in feet) of the public access or lodging along the beach project shoreline. For public lodging establishments that do not front the beach, indicate the street-side length of the legal property boundary (in feet) that is used as the main access to the establishment.
- Number of Eligible Units: A unit is defined as one automobile parking space, one rental unit in a public lodging establishment, one mass transit stop, or four bicycle parking spots.
- Additional Width from Eligible Units: Total distance (feet) added to the Width of Access/Frontage. If there are multiple types of eligibility units used for this calculation, show the calculation separately for each.
- Total Eligible Shoreline: Sum of the Width of Access/Frontage and Additional Width from Eligible Units columns. Eligible shorelines cannot overlap.
- Website Link for DBPR License: Provide the link to the Department of Business and Professional Regulation (DBPR) website for proof of licensure for any public lodging establishments used for eligibility or the Recreational Benefits ranking criteria.

Location/ Access Name	DEP Reference Monument	Type of Access	Width of Access/ Frontage (ft)	Number of Eligible Units	Additional Width from Eligible Units (ft)	Total Eligible Shoreline (ft)	Website Link for DBPR License
Key West/ Smathers Beach	V-412	Primary	3,000 FT	178	0	3000	N/A

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7. Schedule and Budget: Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), Monitoring (M), or USACE Multiphase (USACE). Include the year of post-construction monitoring in the description.

- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 22/23, 23/24, and 24/25). Eligible costs will be added to the current funding request.
- **Current and Future Costs**: Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
22/23						
22/23						
22/23						
23/24						
23/24						
23/24						
24/25	Construction	Beach re-nourishment (completed August 2023) reimbursement	$0	$704,165.60	$704,165.60	$1,408,331.20
24/25	Monitoring	Continued (1 year) monitoring of erosion and biological impacts	$0	$176,041.40	$176,041.40	$352,082.80
24/25						
25/26						
25/26						
25/26						
26/27						
26/27						
26/27						

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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
27/28						
27/28						
27/28						
28/29						
28/29						
28/29						
29/30						
29/30						
29/30						

8. Tourism-related impacts: Criteria is calculated by the Department using 2023 data. For reference, tax data can be obtained from the Department of Revenue website: https://floridarevenue.com/DataPortal/Pages/TaxResearch.aspx See Guidance Document for more information.

- (•) Current funding request includes construction and year one post-construction monitoring
- ( ) Project is managed by two or more counties

Additional comments: The current funding request for the Smathers Beach Nourishment and Monitoring Project includes both the construction phase, which was completed in August 2023, and the first year of post-construction monitoring. This project

9. Federal involvement: The documentation to verify authorization, federal cost share percentage, and status of funding award must be provided with the application materials for the award of points.

Is the project Federally authorized by the USACE? Yes

Authorization Year: 2017 Expiration Year: 2027

Does this project have a signed USACE Chief's report or Civil Works Congressional authorization for the requested phase? Yes

USACE federal cost share percentage for this project (excluding FCCE): 0%

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Select all that apply for the requested project phase(s) and include documentation with application materials.

- (•) Executed USACE project agreement
- (•) Included in USACE work plan
- ( ) Approved FEMA Project Worksheet
- (•) Included in Congressional Appropriations Act
- ( ) Other documentation:

10. Storm damage reduction benefits: Criteria is calculated by the Department.

What is the volume (cy) of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured above the Mean High Water contour? Data should be consistent with the annual post-construction monitoring reports.

For restoration projects, what is the historical erosion rate?

11. Cost effectiveness: Criteria is calculated by the Department. A project design analysis and supporting documentation must be provided with the application materials for the award of points. See Guidance Document for more information.

What is the proposed sand placement volume (cy)? 20,760 cubic yards

What is the nourishment interval (years)? 5 years

Select all that apply for the current project funding request:

- (•) Enhanced longevity: Propose structural or design components that could extend the beach nourishment interval
- (•) Dune addition: Incorporate new or enhanced dune structures or new or existing dune restoration and revegetation projects
- ( ) Innovative technology: Propose innovative technologies designed to reduce project costs
- ( ) Regionalization: Two or more local sponsors manage projects together or projects propose regional sediment management strategies to conserve sand resources or reduce project costs

Additional comments for storm damage reduction benefits and cost effectiveness

The proposed Smathers Beach Nourishment and Monitoring Project includes several components aimed at enhancing the cost effectiveness and storm damage reduction benefits. The project incorporates the addition of new dune structures and the enhancement of existing dunes, which serve as natural barriers against storm surges and coastal erosion. These dune systems are vital for protecting inland areas and infrastructure from storm damage.

By integrating structural or design components that extend the beach nourishment interval, the project aims to increase the longevity of the nourishment efforts, thereby reducing the frequency and associated costs of future re-nourishment cycles. This approach not only enhances the durability of the beach but also contributes to long-term cost savings.

The project's emphasis on enhanced longevity and dune addition underscores a strategic approach to coastal management, ensuring that the investment in beach nourishment yields sustained protective benefits. These measures are designed to optimize the cost effectiveness of the project while maximizing its resilience to storm impacts. The implementation of these strategies will provide significant storm damage reduction benefits, protecting both the natural environment and the built infrastructure in the region.

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12. Previous state commitment

Has the Department previously reviewed, approved, and cost-shared on a feasibility or design phase for this project?	Yes
Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion?	Yes
Additional comments	The project has received prior state support for feasibility, design, and recent partial appropriations.

13. Accessible beach area: Criteria is calculated by the Department. Provide additional information for consideration.

Describe the landward and seaward edge of the accessible beach width	The accessible beach width extends from the landward edge at the dune line to the seaward edge at the mean high water line.
Provide the project boundaries (R-monuments)	R-Monument: V-412
Provide citations of reference sources	Florida Department of Environmental Protection (FDEP) Strategic Beach Management Plan Coastal Construction Control Line (CCCL) Program Project monitoring reports and surveys conducted by the City of Key West Coastal Range Monument Locations

14. Recreational benefits: Provide the percentage of linear footage within the project boundaries which is zoned recreational or open space; for commercial use; or to allow for public lodging establishment, or the equivalent. Provide additional documentation and DBPR website link in a separate attachment, if needed.

Percentage of linear footage within the project boundaries:

Recreational or open space: 70%
Commercial use: 20%
Public lodging establishment or equivalent: 10%

15. Mitigation of inlet effects: Criteria is calculated by the Department.

Additional comments	

16. Successive unfunded requests

Is the current proposed project phase(s) a successive, unfunded request? If so, how many years of successive request(s) is the current application?	2+
Does the successive request add the construction phase?	Yes

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17. Environmental habitat enhancement: Criteria is calculated by the Department. See Guidance Document for more information.

Is the project within a designated critical habitat area for threatened or endangered species that is subject to extensive shoreline armoring?	Yes
Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species?	No
If yes to either of the above, does the project exceed best management practices to incorporate turtle-friendly designs and management strategies to protect resources or benefit critical habitat preservation?	Yes

Provide an explanation and supporting documentation for the strategies which exceed best management practices

The Smathers Beach Nourishment and Monitoring Project is within a designated critical habitat for threatened and endangered species, specifically sea turtles, and exceeds best management practices. The project includes turtle-friendly beach designs with gentle slopes and dunes, dark sky compliant lighting to reduce hatchling disorientation, and native vegetation restoration to stabilize dunes and provide habitat. Construction activities are restricted to outside the nesting season to minimize disturbances, and continuous monitoring and adaptive management ensure the long-term effectiveness of these strategies. Supporting documentation includes detailed design plans, lighting specifications, a construction schedule, and monitoring reports. These efforts enhance the habitat while promoting sustainability and resilience.

18. Readiness to construct

Does the project have an active state permit?	Yes	Does the project have an active federal permit?	Yes
Permit number	0129031-005-JC	Permit number	SAJ-1998-01677(SP-MLC)
Authorization date	July 12, 2013	Authorization date	September 28, 2017
Expiration date	July 12, 2028	Expiration date	September 28, 2027

Have all necesssary easements been acquired for the upcoming or proposed construction phase?	Yes
Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by September 23, 2024.	Yes
Is an Erosion Control Line established along the project length?	Yes

Additional comments for readiness to construct

All necessary easements have been acquired, and local funding has been secured for the proposed project phase, with the draft Resolution prepared and the signed Resolution due by September 23, 2024. An Erosion Control Line has been established along the entire project length, ensuring compliance with regulatory requirements. The project is fully permitted with active state and federal permits, allowing for immediate commencement of construction activities. This readiness demonstrates our commitment to timely and efficient project execution, ensuring the protection and enhancement of Smathers Beach.

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Provide additional information and comments below or attach supporting documents.

The Smathers Beach Nourishment and Monitoring Project is completed for the 2019 sand placement event. All required easements had been secured, and local funding was confirmed with a draft Resolution in place, ensuring financial support was formalized by the September 23, 2024 deadline. The Erosion Control Line, established along the entire project length, guaranteed regulatory compliance and coastal protection.

The project held active state and federal permits:

- State Permit: 0129031-005-JC, authorized on July 12, 2013, expiring on July 12, 2028.
- Federal Permit: SAJ-1998-01677(SP-MLC), authorized on September 28, 2017, expiring on September 28, 2027.

These permits facilitated immediate construction commencement, underscoring the project's readiness. The strategic planning and preparatory measures undertaken highlighted our commitment to efficient project execution and environmental stewardship at Smathers Beach.

Supporting Documents:

- Detailed design plans and specifications
- Dark sky compliant lighting specifications
- Monitoring reports (large files available upon request)
- The funding for this project was made available by City resolution 23-211 (attached). Beach nourishment is funding through our Fort Taylor Surcharge fund (CIP excerpt attached)