



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

PART I: GENERAL INFORMATION

Local Sponsor	Town of Surfside		
Federal ID Number (FEID)	59-6000434		
Primary Contact Name	Hector Gomez	Title	Public Works Director
Mailing Address Line 1	9293 Harding Avenue		
Mailing Address Line 2			
City	Surfside	Zip Code	33154
Telephone Number	(305) 861-4863		
Email Address	hgomez@townofsurfsidefl.gov		

Additional Contact Information

Irina Mocanu, Project and Contract Manager, imocanu@townofsurfsidefl.gov
Kristina Brown, Grant Consultant, consultant@inallc.com, 954-860-2699
Amber Crane, GIS Analyst Consultant, amber.crane@kimley-horn.com, 954-546-9914
Jason D. Greene, Assistant Town Manager / Chief Financial Officer, jgreene@townofsurfsidefl.gov
Andrew Hyatt, Town Manager, ahyatt@townofsurfsidefl.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

Hector Gomez

Date

Jul 31, 2022



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PART III: EVALUATION CRITERIA

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

Town of Surfside's Dune Restoration Project

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

The Town of Surfside is a coastal barrier island community that is one mile long and approximately half a mile wide. Its eastern coast is the Atlantic Ocean which is prone to natural disasters. The Town lies within the boundaries of Miami-Dade County in South Florida. The Town's FDEP Range monuments can be identified as R-31 to R-38. The Town of Surfside's beach was initially constructed by the U.S. Army Corps of Engineers (USACE) as part of the first phase of the Miami-Dade County, Florida, Beach Erosion Control/ Hurricane Protection Project (BEC & HPP) Main Segment's initial construction between 1977 and 1978. Since its initial construction, Surfside has been nourished three additional times including a 2020 nourishment. A list of these projects has been included at the end of this application along with multiple surveys, reports and studies from Miami-Dade County and USACE. The 2020 post-construction monitoring of the most recent nourishment project showed that the Surfside fill area continued to disperse as the beach equilibrated based on the wave conditions.

As a mitigation strategy against tidal and atmospheric erosion, the Town has developed a barrier dune and as a result, takes a strong part in the responsible maintenance of this critical dune ecosystem. The Town's dunes system is a mile long located along the eastern coast which extends from 87th Street to 96th Street. On average, it is approximately 80 linear feet in width. The Town of Surfside has developed a Dune Plan as well as prepared proposed preliminary project plans that cover the following tasks: Eradication, Trimming, Replanting, Improvements.

Within the Dune Plan and its related exhibits and attachments, FDEP can further review the details of the project plans and activities to be conducted as part of this partially grant funded project. Refer to Dune Plan - Exhibit A - "Dune Aerials" for a full depiction of the Town's dune system. The Town plans to remove all invasive species within the dune ecosystem. Removal is to include root removal in order to mitigate future growth. Refer to Exhibit B - "Dune Resiliency Initiative", which depicts in detail the various invasive species currently present within the Town's dune ecosystem. The Town will trim all sea grapes in a manner consistent with FDEP guidelines and Florida Fish and Wild Life Conservation Commission (FWCC). Sea Grape Trimming Guidelines are found in Exhibit C - "Sea Grape Trimming Guidelines". The intent of the trimming is to remove lower canopy limbs in order to promote sea oat growth around the base of each sea grape. Seedlings that are a result of a main tree will be transplanted on the eastern-most in order to reinforce dune at the most vulnerable location to tidal impact. Refer to Exhibit D - "Invasive Removal and Relocation of Sea grape Seedlings". The Town will seek approval for the planting of native species as outlined Exhibit B - "Dune Resiliency Initiative". Replanting also includes relocating sea grape seedlings that are in congested pods to the east of the dune system. Areas where invasive species have been removed will be planted with sea oats. The most costly part of the project will be increasing the height of the dune, as depicted in the attached document FY 23 Dune Project, to a proposed dune height with engineered fill at an elevation of 14.00 NGVD - 15.00 NGVD. However, the Town will work in conjunction with the FDEP and all related regulatory agencies including the County to seek approval prior to making any improvements. The project will essentially be phased into design, construction, and monitoring.

The Town is relying on feasibility data from USACE, County reports, and additional Town assessments and studies as the foundation of this project. The design phase of the project will allow the Town to coordinate in-depth with all regulatory agencies and gain feedback from USACE, FDEP, and the County as required to complete this project collaboratively and secure all necessary permits. Upon construction the Town will be able to effectively restore the dune ecosystem making it more resilient and impactful to the protection of the community and the environment. The Town will continue post-monitoring efforts as required by the FDEP and related regulatory agencies. The Town seeks to do this work in partnership with the applicable agencies and will adhere to the requirements set forth to ensure funding is effectively and responsibly used for sustainable and longterm project impact.



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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.

The Town of Surfside's fiscal year runs from October 1st to September 30th of every year. The Town will be allocating design and construction funding towards this project in its FY 2023 and FY 2024 (10/1/2022-9/30/2023 and 10/1/2023-9/30/2024).

Feasibility: The Town has numerous assessments and studies relating to the condition of its beach-dune coastal system. The Town has included a 2018 Beach and Dune Report developed by its consultant. In addition, the Town also applied in June of 2022 for an FDEP Resilient Florida Grant to conduct a revised Town-wide Vulnerability Assessment and Adaptation Plan. If this assessment and plan are funded through FDEP's grant program the Town anticipates completion of that resource between Fall of 2022 and Spring of 2023, hence, providing additional information to support with the project design phase and further integrating the involvement of FDEP.

Design: The Town will select a consultant to prepare design documents and secure required permits for the work to be completed during the construction phase. The design phase is estimated to cost \$72,000.

Construction: The Town will select contractors to support with the following tasks: Removing invasive plant species, 2. Installing a diverter dune at critical areas, 3. Reinforcing the eastern boundary of the system, 4. Increasing dune height at various areas, and 5. Installing additional native plant species. The construction phase is estimated to cost \$869,600.

Monitoring: The Town will commit in-house experienced staff to comply with all post-construction monitoring requirements required by the FDEP and related regulatory agencies. The Town will absorb this cost through its local funds.

The Town will seek grant reimbursement in part for the design and construction phases of the project as allowable and eligible under the grant requirements.

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 2021) that are enclosed or intersected by the buffer. The 2021 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).

5344.59



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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
9449 COLLINS AVE - Shoreline	32	Secondary	204.0641033	See attached parking spaces		204.0641033	https:// www.myflorida
9011 COLLINS AVENUE -	36	Secondary	936.5666664	See attached parking spaces		936.5666664	https:// www.myflorida
8801 COLLINS AVE - Shoreline	38	Secondary	119.1473496	See attached parking spaces		119.1473496	https:// www.myflorida
9449 COLLINS AVE - Streetside	32	Secondary	333.83699	See attached parking spaces		333.83699	https:// www.myflorida
9011 COLLINS AVENUE -	36	Secondary	1321.181908	See attached parking spaces		1321.181908	https:// www.myflorida
9200 COLLINS AVE - Streetside	34	Secondary	523.9671979	See attached parking spaces		523.9671979	https:// www.myflorida
9200 COLLINS AVE - Streetside	34	Secondary	246.9433008	See attached parking spaces		246.9433008	https:// www.myflorida
9293 HARDING AVE - Streetside	33	Secondary	587.1172178	See attached parking spaces		587.1172178	Town Hall
9418 COLLINS AVE - Streetside	33	Secondary	419.4317325	See attached parking spaces		419.4317325	https:// www.myflorida
9576-9578 COLLINS AVE -	31	Secondary	281.5859313	See attached parking spaces		281.5859313	https:// www.myflorida



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			Total Metered Parking Spaces	636			
			Total Municipal Parking Spaces	478			
			Total On Street Parking	160			

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 20/21, 21/22, and 22/23). 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
20/21						
20/21						
20/21						
21/22						
21/22						
21/22						
22/23	Design	Select a Consultant to Design and Permit Project	0	36,000	36,000	72,000
22/23						
22/23						
23/24	Construction	Select a Contractor to Eradicate Invasive Species, Trim and Replant Native Species	0	60,000	60,000	120,000
23/24	Construction	Select a Contractor to Increase Height of Dune and lighting if necessary in accordance with FDEP/FWCC/County Requirements.	0	374,800	374,800	749,600



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
23/24						
24/25	Monitoring	In-House Staff Costs by Town of Surfside	0	0	2,500	2,500
24/25						
24/25						
25/26						
25/26						
25/26						
26/27						
26/27						
26/27						
27/28						
27/28						
27/28						

8. Tourism-related impacts: Criteria is calculated by the Department using 2021 data. For reference, tax data can be obtained from the Department of Revenue website: https://floridarevenue.com/taxes/pages/colls_from_7_2003.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

For FY 21, the Town had \$4,372,990 in tourist taxes this amount includes food, beverage and hotel taxes. The project will restore and beautify the dune ecosystem through landscape changes in removing invasive plant species, trimming and replanting native plants. The dune's height will be increased creating a fresh new layer.



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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: 1977

Expiration Year: 1978

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

No

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

0

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:

This specific dune restoration project is not a federally funded project feature, however, beach renourishment work has been funded in the past

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.

The average shoreline change within the Surfside constructed area is an advance of 80 ft.

For restoration projects, what is the historical erosion rate?

45,000 cy/yr

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)?

Engineered fill to an elevation of 14.00 NGVD - 15.00 NGVD

What is the nourishment interval (years)?

TBD

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



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Additional comments
for storm damage
reduction benefits and
cost effectiveness

According to the FDEP December 2017, Critically Eroded Beaches in Florida report, "Between Bakers Haulover Inlet and Government Cut (R27 – R74.4) are 9.4 miles of critical erosion, which threaten development and recreational interests along Bal Harbour, Surfside and Miami Beach." Development and recreational interests are a tremendous tax revenue generation for the Town of Surfside. Hence, the protection of the upland areas is critical to the Town. In addition to the recreational functions, the beach and dune system protects upland properties from storm damage and provides habitat for plants and animals. Dunes block storm surge and absorb wave energy; vegetated dunes minimize erosion and accrete sand, and enhance beautification. Impacts to dunes and dune vegetation are regulated through the CCCL program, the CCCL programs directs development away from the dunes, protects dune vegetation, and regulates the relocation of sand within the permitted project area. The CCCL program also ensures that any relocated sand or imported sand is compatible with the existing beach sand. Native dune species help to trap and hold sand and inhibit erosion. Invasive dune species can crowd out and impede the growth of native species and often have shallow roots and fragile stems that are easily destroyed in high winds or storms making them ineffective in dune stabilization.

12. Previous state commitment

Has the Department previously reviewed, approved, and cost-shared on a feasibility or design phase for this project? No

Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion? No

Additional comments

The FDEP, Miami-Dade County, and USACE have worked together since 1978 on the beach erosion control project along Surfside's beach, however, the dune has not be addressed other than by the

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

Within the Town the ECL runs roughly along the crest of the storm protection dune (slightly landward of the footpath that runs along the crest of the dune). Everything seaward of the ECL is owned by the State

Provide the project boundaries (R-monuments)

Surfside from 96th Street to 87th Street - (R-31 to R-38)

Provide citations of reference sources

Calvin, Giordano & Associates 2018 Surfside Beach and Dune Report

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.

All links have been provided above. Everything seaward of the ECL is owned by the State and is open for public recreation at 100%. The Town also hosts public events and activities for the community to include 5k Runs and Walks and 4th of July activities.



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

Additional comments

To our knowledge this project will not have a direct impact to the Baker's Haulover Inlet that borders Bal Harbour Village to our north side.

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?

Does the successive request add the construction phase?

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?

Yes

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

According to the FWS Critical Habitat for Threatened & Endangered Species this area is recognized for West Indian Manatee presence. In addition, Surfside is home to many endangered sea turtles that nest along the beach including loggerhead/green turtles. In Miami-Dade County turtle nesting season runs from May 1 to October 31. The Town will not be doing any activity along the beach that will affect the nesting season for these endangered marine animals. The Town will work with FWC and FDEP on required permits. The Town will also be considering lighting within the project design and construction phases.

18. Readiness to construct

Does the project have an active state permit?

No

Does the project have an active federal permit?

No

Permit number

Permit number

Authorization date

Authorization date

Expiration date

Expiration date

Have all necessary easements been acquired for the upcoming or proposed construction phase?

Yes



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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 October 5, 2022.

Yes

Is an Erosion Control Line established along the project length?

Yes

Additional
comments for
readiness to
construct

The project will secure all necessary permits and reviews by applicable regulatory agencies during the design and permitting phase of this project.

Provide additional information and comments below or attach supporting documents.

USACE - Miami-Dade County - BEC/HPP Main Segment - Surfside Beach Projects Completed to Date: • Project Type: USACE, Constructio



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