



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

PART I: GENERAL INFORMATION

Local Sponsor

Federal ID Number (FEID)

Primary Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

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 Digitally signed by MillerAndrew
Date: 2022.07.30 14:37:48 -04'00'

Electronic or scanned signatures accepted.

Printed Name Date



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PART III: EVALUATION CRITERIA

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

South Marco Island Beach Renourishment Project

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

The South Marco Island Beach Renourishment Project is located on the southwest Florida coastline of Collier County between Florida Department of Environmental Protection monuments from reference monument R-144 to R-148+600 (G-4). This project has an approximate design beach width of 100 ft. from the baseline and is nourished on an approximate 6 to 7-year interval. The project's borrow area is the Caxambas Pass Borrow Area with upland sand mines permitted as supplemental sand sources. This project includes yearly physical beach monitoring, beach tilling, and environmental monitoring as required by FDEP and USACE permits.

In 2013, Collier County placed approximately 77,800 cubic yards of beach compatible material to restore approximately 2,300 feet along South Marco Island (400 feet south of R-146 to G-4). The beach fill was within the 2005 permitted project limits. The main goals of the project were to restore storm protection, natural resource habitats, and recreational beach areas to offset the storm damage caused by Tropical Storm Fay in 2008. Additionally, the structural repair of five existing erosion control structures was completed in 2013/14.

The South Marco Island Beach Renourishment Project was then renourished through truck haul methods in November of 2016 with approximately 13,200 cubic yards of beach compatible material to offset storm damages caused by Tropical Storm Debby.

Approximately 80,000 cy of dredged material from Caxambas Pass was placed in the South Marco Island Beach project area in March of 2020.



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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.

Monitoring - Physical and turtle monitoring and beach tilling funds.

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).

Permitted project from R144 to R 148+600 (G4)
4730 ft. Critically eroded R 144 to R 148 4130ft



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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 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						
22/23						
22/23						
23/24	Monitoring	Physical, Turtle, Tilling	0	28,900	78,400	107,300
23/24						
23/24						
24/25	Design	Engineering Design, P&S	0	30,400	82,400	112,800
24/25	Monitoring	Physical, Turtle, Tilling	0	29,800	80,700	110,500
24/25						



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
25/26	Construction	Beach Nourishment and Services	0	608,400	1,646,600	2,255,000
25/26	Monitoring	Physical, Turtle, Shorebird, Tilling	0	33,100	89,400	122,500
25/26						
26/27	Monitoring	Physical, Turtle, Shorebird, Tilling	0	34,000	92,200	126,200
26/27						
26/27						
27/28	Monitoring	Physical, Turtle, Shorebird, Tilling	0	35,100	94,900	130,000
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](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 As only monitoring funds are requested, only items 1-7 are included in this application.

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? No

Authorization Year: Expiration Year:

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):



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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)?

What is the nourishment interval (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



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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?

Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion?

Additional comments

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

Provide the project boundaries (R-monuments)

Provide citations of reference sources

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.

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?

Does the successive request add the construction phase?



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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?

Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species?

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?

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

18. Readiness to construct

Does the project have an active state permit?

Does the project have an active federal permit?

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?

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.

Is an Erosion Control Line established along the project length?

Additional comments for readiness to construct



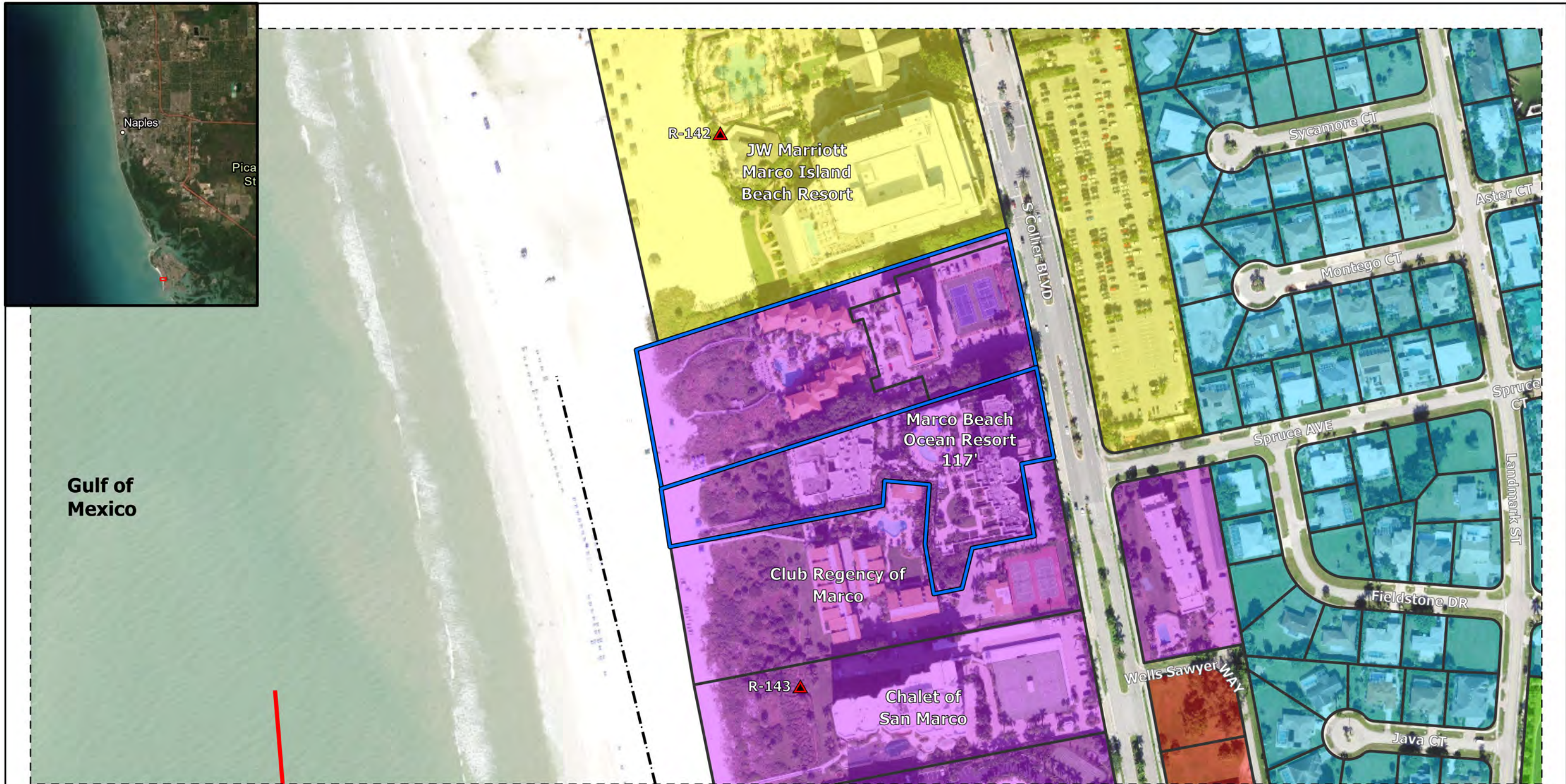
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Provide additional information and comments below or attach supporting documents.

A large, empty rectangular box with a thin black border, intended for providing additional information and comments or attaching supporting documents.

Schedule and Budget - Marco Island Beach Application

Year	Proposed Method	Description	Federal Cost Share	State Cost Share	Local Cost Share	Total Estimated Cost
2023/2024	Monitoring	Physical, Turtle, Tilling	\$0	\$28,900	\$78,400	\$107,300
2024/2025	Design	Engineering Design, P&S	\$0	\$30,400	\$82,400	\$112,800
	Monitoring	Physical, Turtle, Tilling	\$0	\$29,800	\$80,700	\$110,500
2025/2026	Construction	Beach Nourishment and Services	\$0	\$608,400	\$1,646,600	\$2,255,000
	Monitoring	Physical, Turtle, Shorebird, Tilling	\$0	\$33,100	\$89,400	\$122,500
2026/2027	Monitoring	Physical, Turtle, Shorebird, Tilling	\$0	\$34,000	\$92,200	\$126,200
2027/2028	Monitoring	Physical, Turtle, Shorebird, Tilling	\$0	\$35,100	\$94,900	\$130,000
2028/2029	Monitoring	Physical, Turtle, Shorebird, Tilling				
2029/2030	Monitoring	Physical, Turtle, Shorebird, Tilling				
2030/2031	Design	Engineering Design, P&S				
	Monitoring	Physical, Turtle, Shorebird, Tilling				
2031/2032	Construction	Beach Nourishment and Services				
	Monitoring	Physical, Turtle, Shorebird, Tilling				
2032/2033	Monitoring	Physical, Turtle, Shorebird, Tilling				



Matchline Figure 4b

Notes:

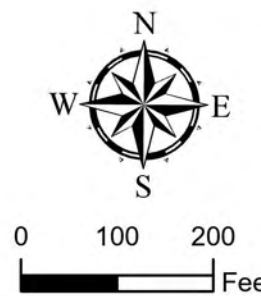
1. Background imagery is from ESRI's Imagery basemap, provided by Collier County, dated December 9, 2020.
2. Parcel data downloaded from Florida Department of Revenue.
3. Beach access & parking data shown is from the Collier County BCC's beaches feature layer, dated December 19, 2019.

Legend:

- 2021 Parcels
- Public Lodging

- Zoning:
- Commercial
 - Multi-Family
 - PUD
 - Residential Tourist
 - Single Family

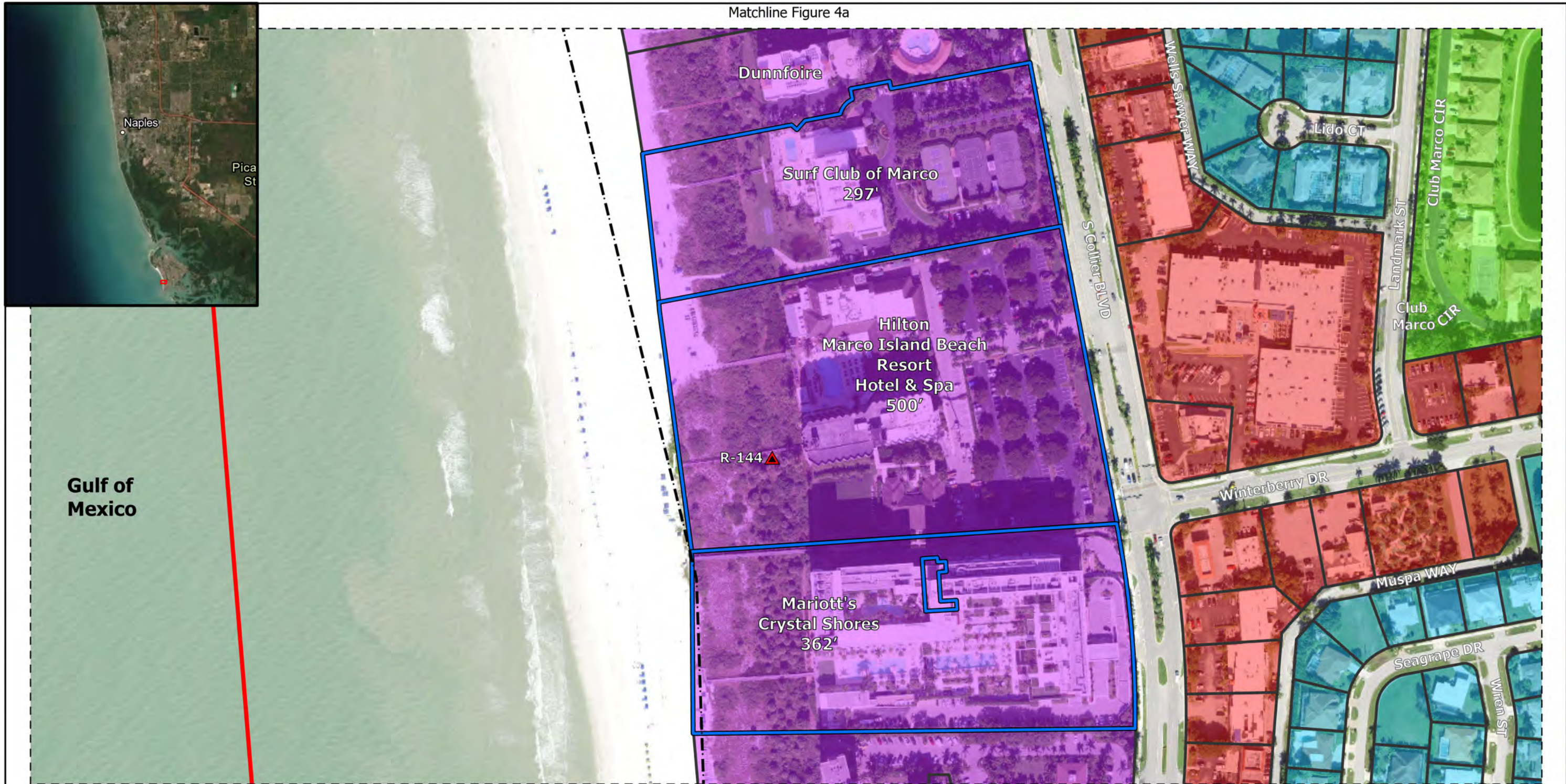
- ECL
- FDEP Coastal Critical Erosion Areas
- FDEP Monument



**Collier County Beach
Local Range Beach Plan
South Marco**



APTIM
6401 Congress Avenue, Suite 140
Boca Raton, FL 33487
PH. (561) 391-8102
Fax. (561) 391-9116



Notes:

1. Background imagery is from ESRI's Imagery basemap, provided by Collier County, dated December 9, 2020.
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3. Beach access & parking data shown is from the Collier County BCC's beaches feature layer, dated December 19, 2019.

Legend:

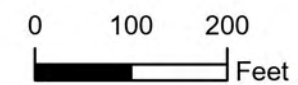
- 2021 Parcels (White outline)
- Public Lodging (Blue outline)

Zoning:

- Commercial (Red)
- Multi-Family (Green)
- Residential Tourist (Purple)
- Single Family (Light Blue)

ECL

- FDEP Coastal Critical Erosion Areas (Red line)
- FDEP Monument (Red triangle)



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Legend:

2021 Parcels

Zoning:

Commercial

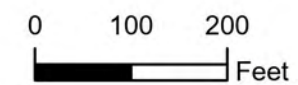
Residential Tourist

Single Family

ECL

FDEP Coastal Critical Erosion Areas

FDEP Monument



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Matchline Figure 4c



Matchline Figure 4e

Notes:

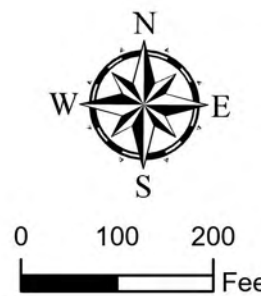
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3. Beach access & parking data shown is from the Collier County BCC's beaches feature layer, dated December 19, 2019.

Legend:

- 2021 Parcels
- Public Lodging

- Zoning:
- Multi-Family
 - PUD
 - Residential Tourist
 - Single Family

- ECL
- FDEP Coastal Critical Erosion Areas
- FDEP Monument



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Matchline Figure 4d

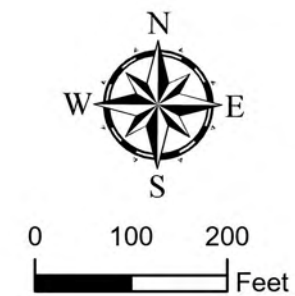


Notes:


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2. Parcel data downloaded from Florida Department of Revenue.
3. Beach access & parking data shown is from the Collier County BCC's beaches feature layer, dated December 19, 2019.

Legend:

- 2021 Parcels
- Multi-Family
- PUD
- Trolley or Bus Stop
- ECL
- FDEP Coastal Critical Erosion Areas
- FDEP Monument



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Local Range Beach Plan
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RESOLUTION NO. 22 -

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF COLLIER COUNTY, FLORIDA SUPPORTING THE COUNTY'S "FLORIDA BEACH MANAGEMENT PROGRAM 2023/2024 FUNDING REQUESTS" TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR LONG RANGE FUNDING REQUESTS FOR FISCAL YEARS 2023/2024, AGREEING TO SERVE AS THE LOCAL SPONSOR, SUPPORT PROPOSED PROJECT ACTIVITIES AND COMMITMENT TO PROVIDING THE REQUIRED LOCAL COST SHARE.

WHEREAS, Collier County's Coastal Zone Management, acting on behalf of the Collier County Board of County Commissioners, has prepared Florida Beach Management Program 2023/2024 Funding Requests to the Florida Department of Environmental Protection (FDEP) for long range grant funding for Fiscal Years 2023 /2024; and

WHEREAS, the funding requests are to fund the following three Collier County Projects:

1. Collier County Beach Nourishment
 - a. FY 2023/2024 Environmental Monitoring, Physical Monitoring, Turtle Monitoring and Tilling.
2. Marco Island Nourishment
 - a. FY 2023/2024 Environmental Monitoring, Physical Monitoring, Turtle Monitoring and Tilling.
 - b. Engineering, Design, Plans and Specifications and Pre-Construction
3. Wiggins Pass Dredging
 - a. FY 2023/2024 Environmental Monitoring, Physical Monitoring and Tilling

WHEREAS, the timely maintenance and restoration of these high quality and readily accessible public recreational beaches is critical to preserve their value and viability, and to provide a boost to both the environment and the economy of Collier County tourism, including hotels, restaurants and related commercial activities; and

WHEREAS , the role of the County government in maintaining and restoring beaches is appropriate and crucial; and

WHEREAS , the Board of County Commissioners supports these three funding requests and requests approval from the FDEP for each funding request for Fiscal Years 2023/2024; and

WHEREAS, the Board of County Commissioners agrees to serve as the Local Sponsor; and

WHEREAS, the Board of County Commissioners is able and committed to providing the required Local Cost Share; and

WHEREAS, the Board of County Commissioners agrees to support proposed project activities; and

WHEREAS: the Board of County Commissioners supports funding contained in previously approved funding contracts, and

WHEREAS, the Board of County Commissioners has enacted the Tourist Development Tax Ordinance No. 92-60, as amended, which commits funding to beach renourishment, beach maintenance and beach park facilities.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF COLLIER COUNTY, FLORIDA, that:

1. The Board supports the Florida Beach Management Program 2023/2024 Funding Requests prepared for submittal to the Florida Department of Environmental Protection for long range funding for Fiscal Years 2023/2024, and requests approval from the FDEP for each funding request;

2. The Board of County Commissioners is willing to serve as the Local Sponsor and support the maintenance and renourishment projects. The Collier County's Coastal Zone Management has the staff dedicated to provide Project Management and Administrative support; and,

3. The Board of County Commissioners is committed to providing the required Local Cost Share. The required funds have been committed through the Tourist Development Tax Ordinance No. 92-60, as amended.

THIS RESOLUTION ADOPTED after motion, second and majority vote favoring same, this ___ day of ___, 2022.

DATE:
ATTEST:
CRYSTAL K. KINZEL, CLERK

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

As Deputy Clerk

By: _____
Penny Taylor, CHAIRMAN

Approved as to form and legality:

Colleen M. Greene Managing Assistant County Attorney