

FY2025/2026 Local Government Funding Request

Final Beach Project Assessment

Project Name	Captiva Island Beach Nourishment Project
Local Sponsor	Captiva Island Erosion Prevention District

Initial Assessment	8/23/2024
Group Assessment	8/27/2024
Draft Assessment	9/2/2024
Final Review	10/8/2024

Project Description The Captiva Island Beach Nourishment Project is located between DEP monuments R83 and R109 in Lee County. In 1981, restoration of the project was completed without federal participation. In 1988/1989, a nourishment was completed with a federal reimbursement. In 2006, a nourishment was done in conjunction with the northern shoreline of Sanibel Island. This nourishment was impacted by a series of storms before and during construction, so a supplemental nourishment project by the USACE was completed in 2008. Nourishment has been completed since then in 2013 and 2021 without federal cost share. The project is federally authorized until 2037. Nourishment intervals are normally between eight and ten years, but due to Hurricane Ian the nourishment will likely occur before. The requested funds are for construction and monitoring. Staff have determined that 42.14% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Construction (current FY25/26 reimbursement) and monitoring (current FY25/26).

State cost share %	21.07%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Design	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Construction	21.07%	\$0.00	\$1,171,607.89	\$4,388,942.11	\$5,560,550.00
Year 1 Monitoring	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Year 2+ Monitoring	21.07%	\$0.00	\$48,419.07	\$181,381.93	\$229,801.00
Total Project Costs		\$0.00	\$1,220,026.96	\$4,570,324.04	\$5,790,351.00

Federal cost share %	0.00%
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Federal agency and description	
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TOTAL PROJECT SCORE (100 points)	57.8
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Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	7.3
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Local Sponsor:

Project is requesting construction funds.

Department:
 Construction + Year 1 Monitoring Cost: \$1,171,607.89
 Value: 124.4

Economic impact (10 points)	Score	5.9
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Local Sponsor: N/A

Department: Lee County, most current complete calendar data. Tourism-related sales tax data = \$145,777,633.49. County sales tax collections = \$1,340,193,047.00
 Value: 10.88

Tier 2

Federal involvement

Federal authorization (5 points)	Score	3
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Local Sponsor: Yes

Department: Verified, the project is Federally authorized by USACE.

Federal cost share (5 points)	Score	0
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Local Sponsor: 0%

Department: Verified

Federal funds available (5 points)	Score	0
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Local Sponsor: USACE project agreement in attachments and FEMA project worksheet in attachments

Department: No federal funding for requested funds, therefore not eligible for points.

Storm damage reduction benefits

Current conditions (8 points)	Score	8
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Local Sponsor: 1.8 ft per year

Department: Beach nourishment was completed in November 2021 with the latest survey received by the Department in October 2022. 97.12% of the 319,946 cy of advanced nourishment was lost over this interval for a total score of $-\log(1 - 0.9712) \times 8 = 12.3$.

CEG calculated value: 12.3

Threat to upland development (2 points)	Score	2
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Local Sponsor: N/A

Department: The SBEACH model was run using October 2022 survey profiles for the 25-year return interval storm conditions for the beach segments. The model results were overlaid on aerial imagery and showed 8,206.84 feet of unarmored property was threatened. This equates to 30.6% of the project length. Hence, the value for

threat to upland development is 3.1 points.

CEG calculated value: 3.1

Value of upland property (5 points)	Score	3.6
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Local Sponsor:

Department: Calculated by GIS with 2023 data.

Total value: \$2,657,308,978.00

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	7.6
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Local Sponsor: Sand placement vol. = 800,000 cy; nourishment int. = 10 years

Department: Construction cost = \$5,560,550.00, volume = 800,000 cy, length = 5.079 mi,
nourishment interval = 10 yrs

Value: .1369 \$/cy/mi/yr

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: Dune Addition

Department: Dune addition has been verified by the Department and eligible for 3 points.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
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Local Sponsor: Yes

Department: The department has previously provided cost-share for an approved feasibility study or design phase for this project

Total amount of previous funding (3 points)	Score	2.9
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Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025

Total funds: \$21,578,402.41

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: No

Department: No partial appropriations in 3 previous fiscal year applications, not eligible for the award points.

Recreational benefits

Accessible beach area (2 points)	Score	1.6
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Local Sponsor: Approximately 56% of the average MHW shoreline width remains based on the June 2023 survey. Between the June 2021 and June 2023 surveys 30.9 ft of beach width was remaining within the project area.

Department: Calculated by CEG/GIS Staff

Total area: 2,488,197 ft²

Recreational benefits (3 points)	Score	0.9
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Local Sponsor: 21.07%

Department: Hotels/Motels (7,454'), Recreational/Commercial (881')
Total 8,335/26,815 = 31.08

Percentage: 31.08%

Mitigation of inlet effects (5 points)	Score	0
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Local Sponsor: Historical inlet bypassing at Blind Pass was achieved through an interlocal agreement, which has now expired. There is currently no interlocal agreement in place and there are no numerical goals for either Redfish Pass or Blind Pass.

Department: The project is within the influence of Redfish Pass. Since the IMP adoption in 2022, 0% of the bypassing objective has been supplied by construction. .00 x 5 = 0%

CEG calculated value: 0%

Volume/mile/year (5 points)	Score	3.0
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Local Sponsor: N/A

Department: volume = 800,000 cy, length = 26,817 ft,
nourishment interval = 10

CEG calculated value: 15,751.20 cy/mi/yr

Tier 4

Successive unfunded requests (5 points)	Score	0
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Local Sponsor: No

Department: Verified no successive unfunded requests. Not eligible for award of points.

Environmental habitat enhancement (5 points)	Score	3
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Local Sponsor: This project is not within a designated critical habitat area that is subject to extensive shoreline armoring.

Department: The project boundary intersects critical habitat area. The shoreline is 26.1% armored with the threat to upland structures being 30.6% the total percentage is 56.7% which is greater than the 30% threshold. Therefore, the project is eligible for 3 points.

Overall readiness to proceed

Readiness to construct (1 point)	Score	1
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Local Sponsor: N/A

Department: Ineligible for the award of an additional point.

Active permits (1 point)	Score	1
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Local Sponsor: State: 0200269-009-JC (12/11/2029)
Federal: SAJ-1994-3952 (SP-MMB) (12/9/2030)

Department: Verified

Easements acquired (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	1
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Local Sponsor: Yes

Department: Signed resolution was submitted by the deadline.

Erosion Control Line established (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified