

**FY 2014/15 Local Government Funding Request
Beach Management Projects**

Project Name: Lovers Key Restoration

Project Description:

The project consists of the nourishment and maintenance of approximately 1.1-miles of shoreline on Lovers Key. The project shoreline is compromised entirely of critically eroded shoreline from Lee County R-214.5 and R-220.5. Initial construction in 2004 entailed the placement of 570,240 cubic yards of beach fill along 6,280 LF of shoreline. The 2013/2014 nourishment has been permitted and anticipates a fill volume of 396,750 cubic yards from a borrow source located near Big Carlos Pass. Cost savings are being realized by coordination of the project with Bonita Beach Nourishment.

Use of Requested Program Funds: No funds are requested for FY14/15 based on existing funds in DEP Agreement 10LE1. **Project information submitted for DEP out year information only.**

Local Government Contact

Name	Title	Email
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Mapping- Maps should be provided as attachments.

Maps should be to scale at a minimum of 1"=200'

Mapping elements include:

- Project Boundary with Critically Eroded Shoreline
- Range Monuments
- Beach Access and Parking- Primary and Secondary, including access widths.
- Public Lodging Establishments- locations and length of property boundaries along project shoreline or street frontage.
- Comprehensive Plan/Current Land Use designations of Commercial and Recreational Facilities and associated property boundaries along the project shoreline.

Length of Project Boundary in Feet (total restored length)

5,900 feet

Eligibility: Access Points and Public Lodging Establishments:

Location/ Name	Address	R- Mon	Type of Access	Width of Access/ Frontage	Total units	No. units available to Public	Eligible shoreline
Lovers Key State Park	8700 Estero Blvd. Ft. Myers Beach, FL. 33931	R217	Primary	5900	535	535	5900

Provide Public Lodging Establishment documentation including proof of licensure. **N/A**

Schedule and Budget:

(Include estimated phases for 10 years and estimated project costs for 5 years.)

Year	Proposed Method	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
2014/ 2015	Monitoring	Physical	\$40,000	0	\$20,000	\$20,000
2015/ 2016	Monitoring	Physical	\$40,000	0	\$20,000	\$20,000
2016/ 2017	Monitoring	Physical	\$40,000	0	\$20,000	\$20,000
2017/ 2018	Monitoring	Physical	\$40,000	0	\$20,000	\$20,000
2018/ 2019	Monitoring	Physical	\$40,000	0	\$20,000	\$20,000
2019/ 2020	Design	Sand Source Update				
2020/ 2021	Construction	Nourishment				
2021/ 2022	Monitoring	Physical				
2022/ 2023	Monitoring	Physical				
2023/ 2024	Monitoring	Physical				

Severity of erosion: Criterion will be calculated by the Department. Please provide narrative and any data that should be considered in addition to the Department’s database.

The average shoreline change rate for the Project area from post-construction (2004) to 2010 is -80.6 feet, but within the hotspot area, data at each of the five profiles (C215.5 to C217.5) indicate beach recession exceeding -115 feet. This recession has resulted in an average shoreline position within the hotspot area that is about 45 feet landward of the edge of the design beach waterline.

Threat to Upland Structures

Criterion will be calculated by the Department. Please provide narrative and any data that should be considered in addition to the Department’s database.

Approximately 2,600 linear feet of the tramway that connects the 350-space public parking area to the beachfront and 400 linear feet of pedestrian bridge are located seaward of the CCCL. New restrooms and beach pavilion are also seaward of the CCCL.

Recreational and Economic Benefit: The percentage of linear footage of properties within the project boundaries zoned commercial, recreational, or Public Lodging Establishment, or the equivalent, in the current local government land use map **100%**

Availability of Federal Funds:

Is the project Federally authorized by WRDA? **No**
Provide date of authorization expiration. **N/A**
Does this project phase have a Federal Project Cooperative Agreement, or similar for the current phase? Provide a copy of the document. **No**
Federal cost share percentage available for this project: **N/A**

Is this project funded through FEMA for storm repairs? **No**
Provide a copy of the signed Project Worksheet.

Local Sponsor Financial and Administrative Commitment

Is funding for the project in the local sponsor’s 10-year comprehensive financial plan? **Yes**
Please provide copy or web link to the plan.

<http://www.lee.gov/gov/dept/budgetservices/book/Budget%20Books/FY%202012-2013%20Annual%20Operating%20Budget.pdf> SEE PAGE 67

Is funding provided through a source established by referendum? **Ordinance 13-14**
Please provide a copy or web link to the referendum.

<http://www.lee-county.com/gov/BoardofCountyCommissioners/ordinances/Ordinances/13-14.pdf>

Is funding provided by a third party? **NO**
What is the percentage of total project costs provide by the third party? **N/A**
Please provide a copy of the cost sharing agreement.

Quarterly Report Compliance:

FY2012/2013	End Date	Report Remitted	Compliant (yes/no)
Qtr 1 (Sept)	10/31/2012	Oct 29	Yes
Qtr 2 (Dec)	01/31/2013	Jan 24	Yes
Qtr 3 (Mar)	04/30/2013	April 30	Yes
Qtr4 (June)	7/31/2013	July 09	Yes

Are there active federal and state permits for the project? **Yes**

Have local funds been secured for the project? **Yes**
Explain: Local funding for the project will be obtained from the Lee County Tourist Development Council (TDC). The TDC provides a dedicated long term funding source through a ‘bed tax’. In accordance with Lee County Ordinance 13-14, the tax allocates 26.4% of all revenue generated from short term or seasonal rentals (less than 6 months) for beach and shoreline improvements.

In order to acquire state funding, a resolution from the local sponsor must be provided by the application deadline which declares:

- Support from the Sponsor for the Proposed Project

- Willingness to serve as the Local Sponsor
- Ability to provide the full Local Cost Share
- And the source of the funding
-

Resolution has been routed to BOCC for approval and will be sent to DEP Pending BOCC Action.

Previous State Commitment:

Has the Department previously cost shared, reviewed, and approved a feasibility or design phase for this project?

The Department previously entered into a cost-share agreement 99LE1 for funding of the initial restoration in 2004 as well as post-construction monitoring. The project is recommended in the Strategic Beach Management Plan and located in an area that has been designated as critically eroded shoreline by the Department. Current Agreement 10LE1 includes funding for design, construction and physical monitoring anticipated being sufficient to fund the project beyond FY14/15.

Previous State Cost Share percentage	Construction	<u>88.24%</u>
	Design / Permitting / Monitoring	<u>50%</u>

Will this project enhance or increase the longevity of a previously-constructed project? How?
No

Will this project nourish a previously restored shoreline? (Full beach nourishment. Dune-only projects do not qualify.)
Yes

Project Performance:

Nourishment Interval (Years): **8**

Mitigation of Inlet Effects:

Criterion is calculated by the Department. Please provide any supplemental information that may assist in determining if the project is located with the area of inlet influence and provides supplemental nourishment for an inlet that is not balancing its sediment budget as defined by the Inlet Management Plan or Strategic Beach Management Plan.

Use of Innovative Applications of existing technologies:

Does the project address erosion in a method that is economically competitive with nourishment, that will not adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats, and that is designed to demonstrate an innovative application of existing technologies?

N/A

Has the project been documented to be effective and demonstrated technologies previously untried in the state?

N/A

Regionalization:

Is this project being planned or constructed in cooperation with another local government to reduce contracting costs? Explain and attach a signed copy of the interlocal agreement between the two local sponsors.

Lee County has worked with the FDEP Division of Recreation and Parks and the City of Bonita Springs to couple the Bonita Beach Nourishment (described separately) with the Lovers Key Nourishment Project under a unified procurement structure intended to increase efficiencies and reduce costs in the design, permitting, construction and monitoring phases of both projects.

Significance:

What is the volume of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured landward of the Mean High Water Line?

345,000 cubic yards are required to fill the project template. The post-construction monitoring by the County from 2004 to 2010 indicates that 47% of the material placed in 2004 migrated beyond the Project limits by 2010. The monitoring data also indicate an area of elevated erosion (hotspot) from C215.5 to C217.5 with the 'peak' erosion at R217. This shoreline segment accounts for 43% of the project length, but 65% of the total volume losses.

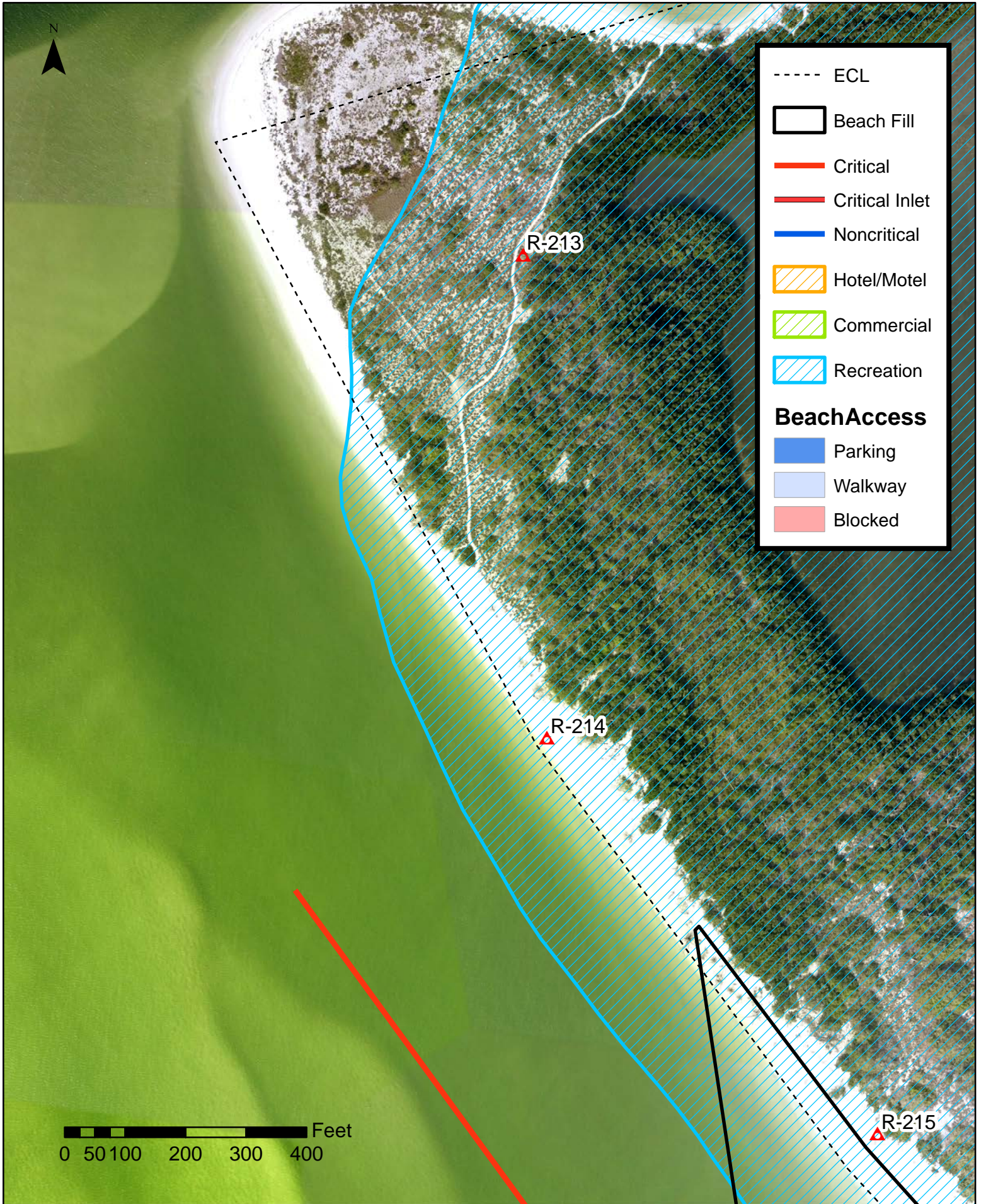
Has the project eroded into the design template?

Yes

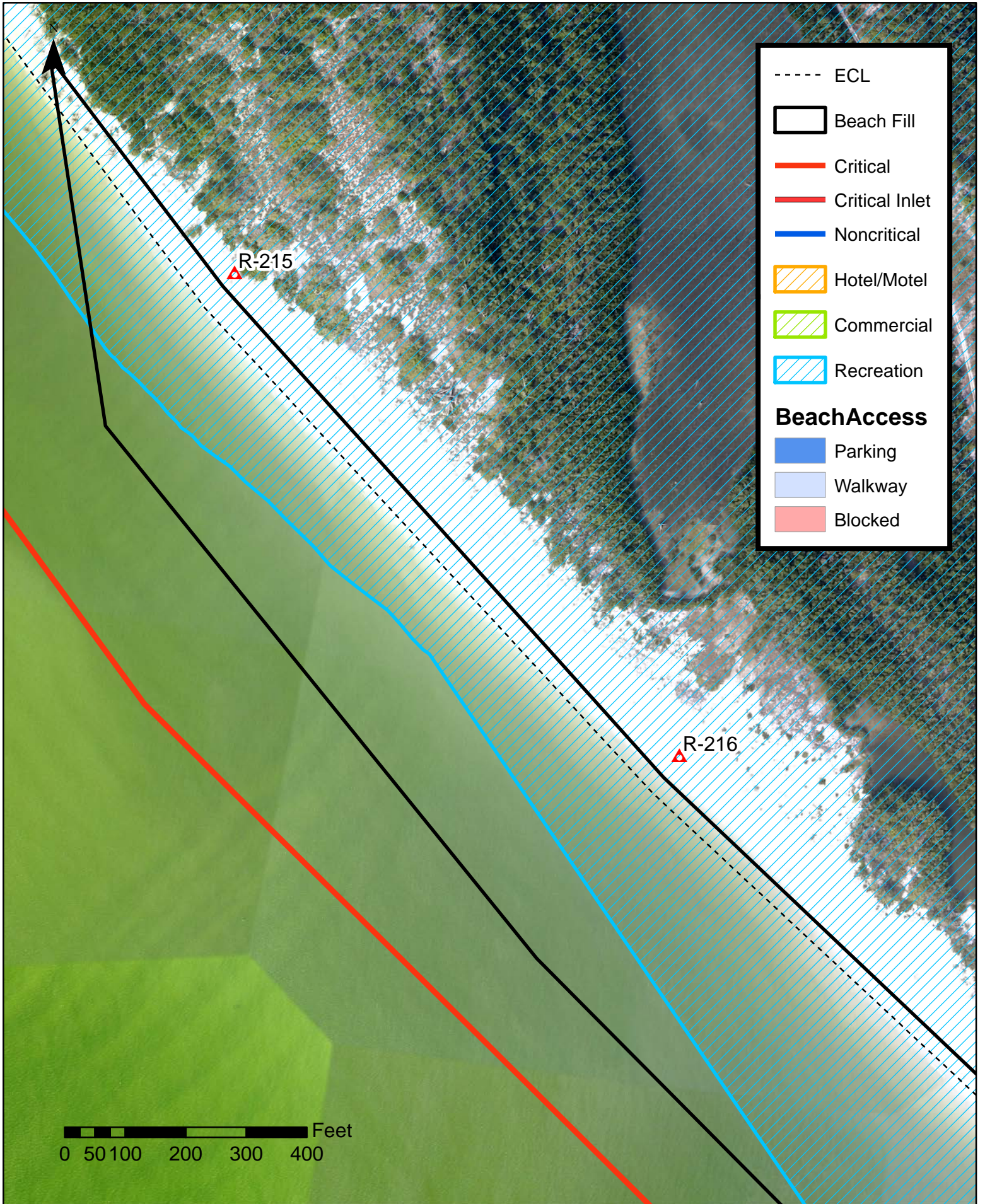
What is the proposed placement volume?

345,000CY

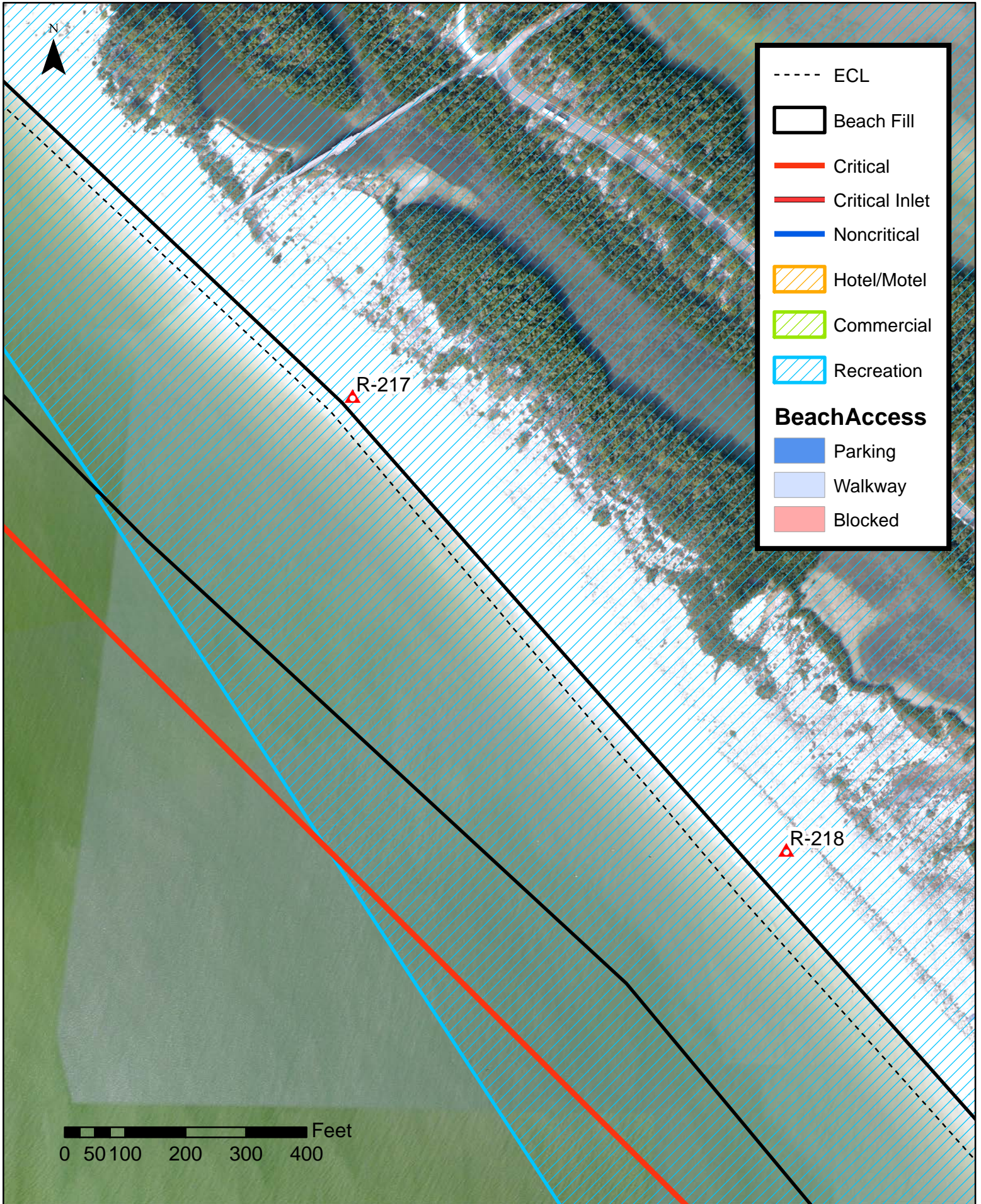
Lee County, Florida



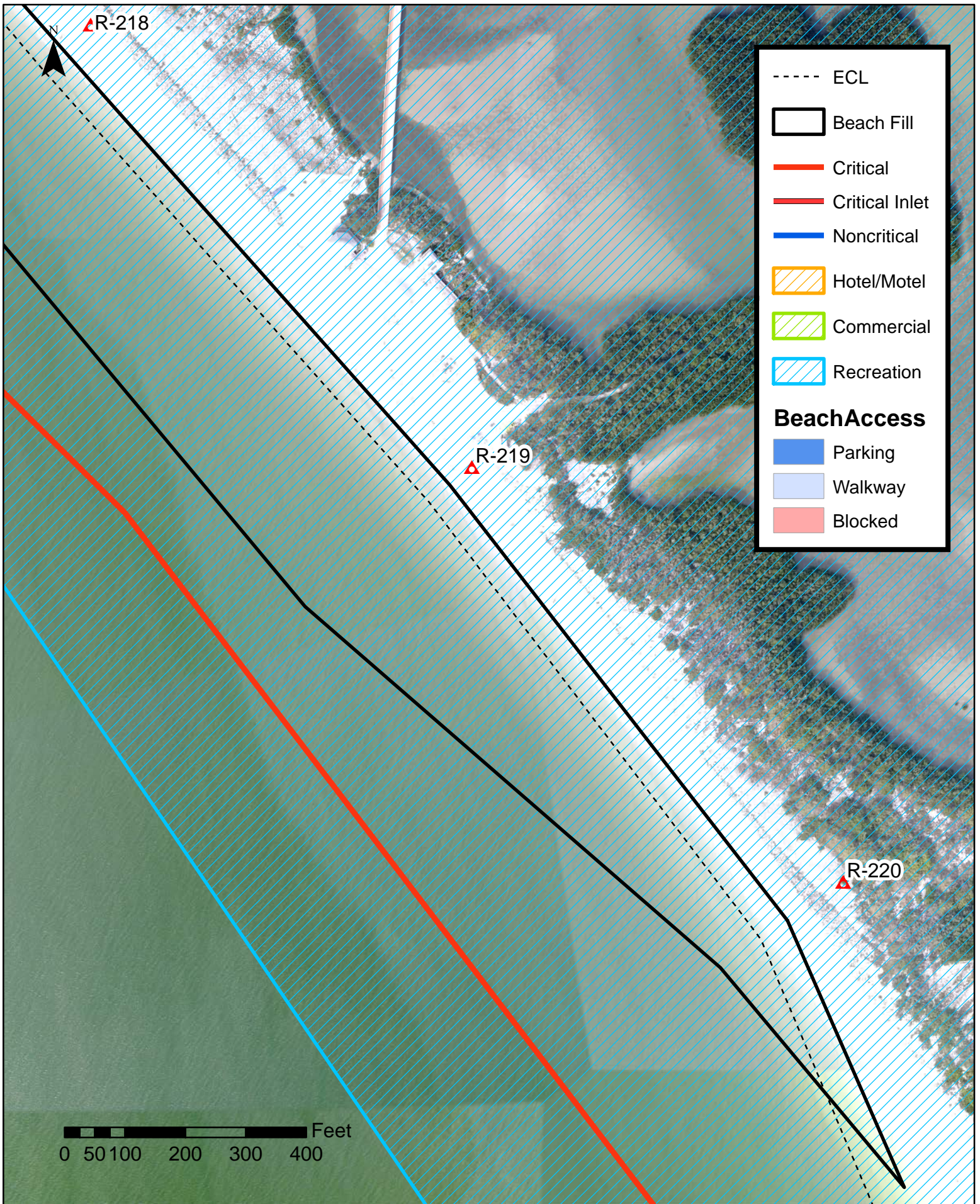
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