

City Council Update

Historic Sanibel Lighthouse Post Hurricane Ian Emergency Protection Project

12/6/2024



City Council—January 14, 2025

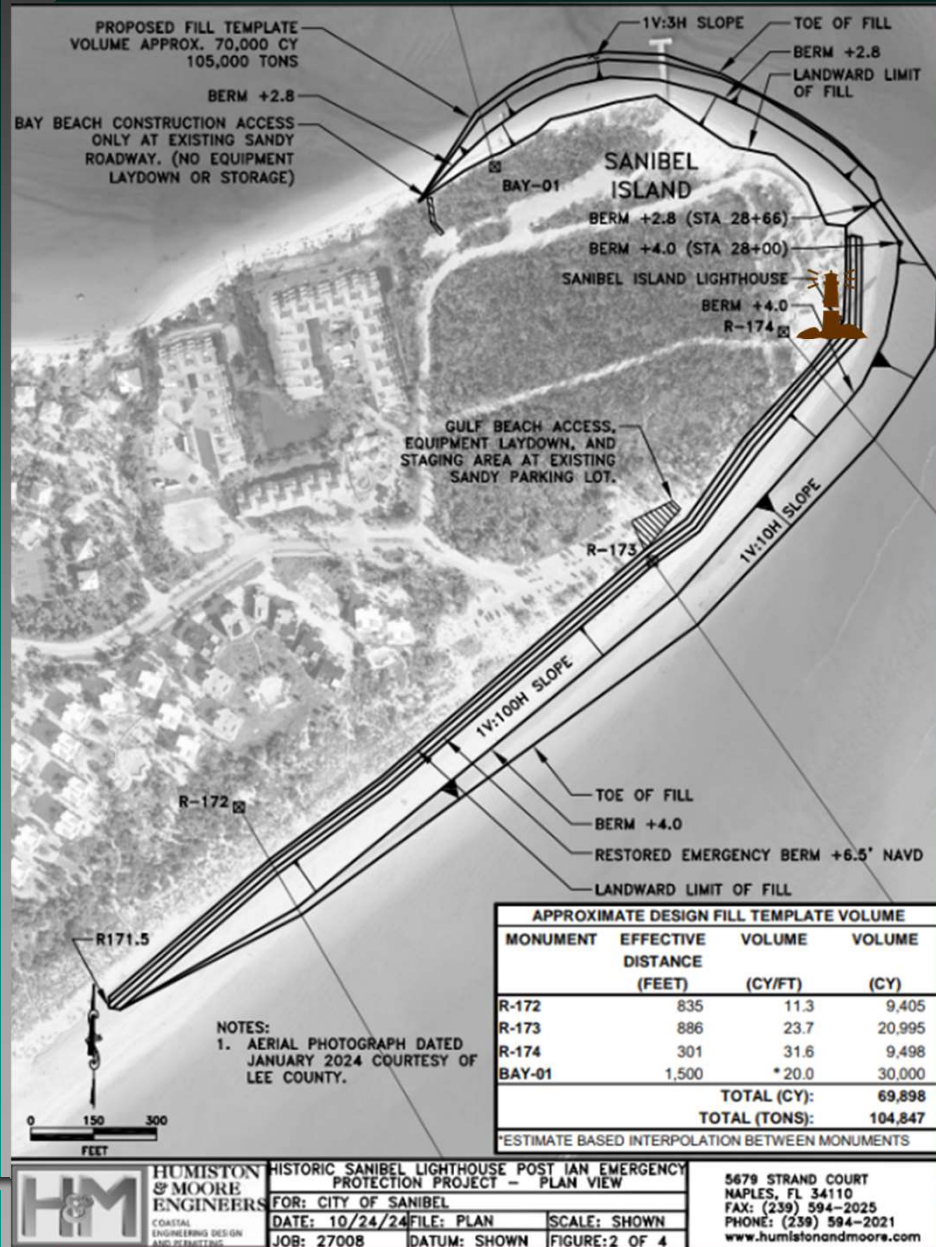


Holly Milbrandt
City of Sanibel
Natural Resources Director

Brett Moore
Humiston & Moore Engineers
Project Engineer



Sanibel Lighthouse Protection Project



Phase II: November 2024-January 2025

- **Total volume: ~105,000 tons**
- **Additional cost: ~\$4.8 million**
 - Eastman Aggregates (CO #3), Vulcan Materials (CO #2); Approved 11/14/24
- **Fill Template:**
 - R-171.5 to the Sanibel Fishing Pier
 - Fishing Pier west to park boundary
 - Segment not included in USACE Emergency Permit
- **Permitting**
 - FDEP and USACE emergency permits in place for work between R171.5 and Sanibel Fishing Pier
 - 15-year FDEP JCP: Issued 11/19/24
 - **15-year USACE permit: Issued 12/6/24**
 - Turbidity monitoring required (Eastman CO #5)

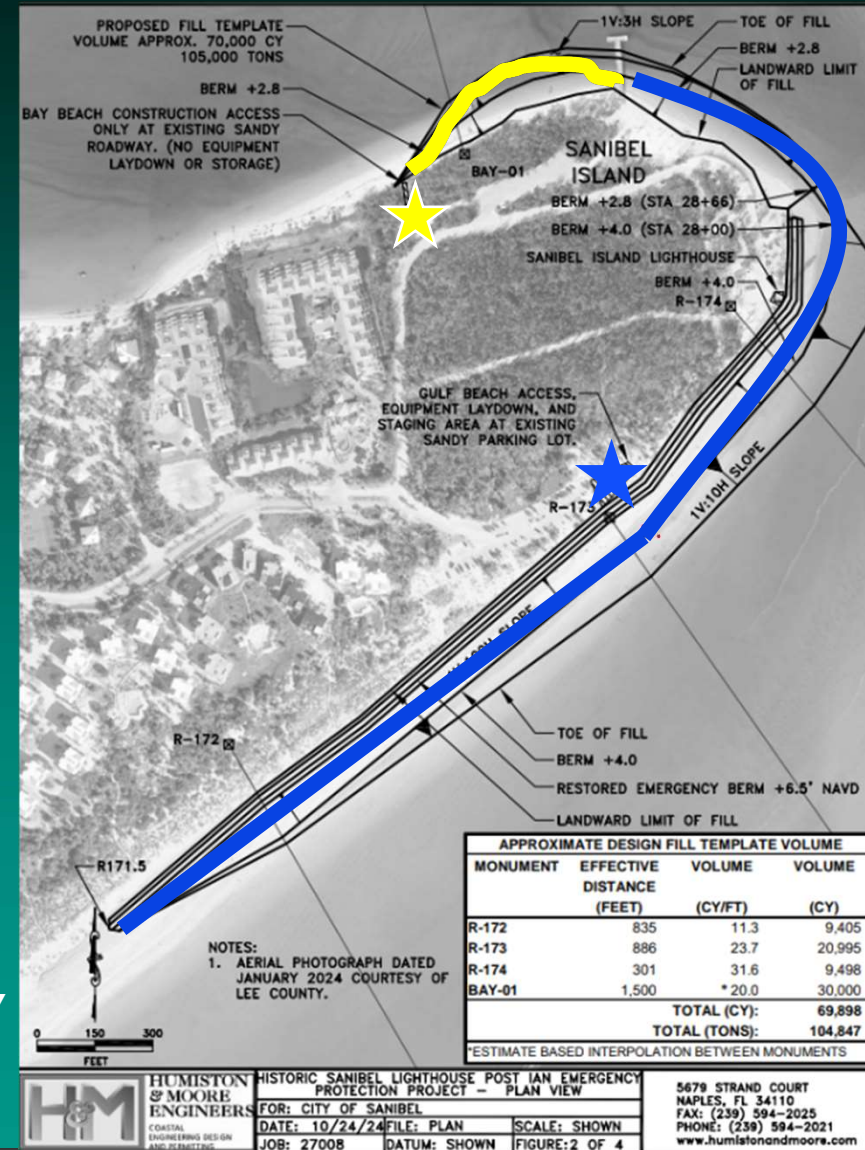
Project Schedule

★ Phase 1--Gulf Beach Parking Lot Access

- **COMPLETE-December 20,2024**
- **24 workdays, ~96,572 tons**
- **Plus an additional ~7,120 tons landward of the Lighthouse**
 - **Eastman CO #4; Vulcan CO #3**
- **Gulf Beach Parking Lot Open**

★ Phase 2--Bay Beach Parking Lot Access

- **COMPLETE-January 14, 2025**
- **7 workdays, ~15,000 tons**
 - **Turbidity monitoring required (Eastman CO #5)**
- **Bay Beach Parking Lots Closed**
 - **Will remain closed thru early February**
 - **Truck staging area for gully repair work (Island Inn Rd unavailable due to Hurricane Milton debris operations)**





Sanibel Lighthouse Protection Project



Beach Gully Repair

Approx. 23 major gullies + 2 shore-parallel depressions

Fill volume: ~42,000 tons; Cost \$2,024,788

- **Eastman CO #6; Vulcan CO #4**

**Phase 1—Donax Beach Access/Lighthouse Beach Park
Bay Beach Parking Lots (Truck staging)**

- **Begin January 14, 2025**
- **18 workdays, ~35,000 tons**

Phase 2—3345 West Gulf Dr (West Wind Inn)

- **Begin Week of February 3, 2025**
- **3 workdays, ~5,000 tons**



Blind Pass-Sand Collection & Screening



*Approximately 2,700 cubic yards
returned to the beach by Crowder Gulf*



Additional Beach Recovery Actions

Full annual beach survey (funded by Lee County TDC)

- *Early 2025*
- *Document needs for additional state/federal funding*
- *Adjust dune planting plans prepared in summer 2024*

Lighthouse Beach Park Dune Planting

- *Early 2025*
- *28,000 native dune species*
- *Plants: \$38,000 Labor: \$29,000*



Additional Beach Recovery Actions

Overwash Sand

*DEP Emergency Final Order 24-2580 (Milton)
DEP Emergency Final Order 24-2534 (Helene)*

“Clean sand” is defined as sand that does not have stains or odors and that is similar to the pre-hurricane beach sand in both coloration and grain size. It must be free of debris, rocks, clay or other foreign matter.

- Clean sand can be collected and placed above the high tide line (or mean high water line) on the beach and dune system.*
- Sand may not be placed over any existing native vegetation or storm generated debris on the beach.*
- Sand shall be returned to the beach in a manner that emulates grade and slope of the beach prior to Hurricanes Milton & Helene.*



FDEP Hurricane Restoration Reimbursement Grant Program

<https://floridadep.gov/rcp/rcp/content/florida-hurricane-restoration-reimbursement-grant-program>

- Provides 100% reimbursement for eligible sand placement projects.
- Program has been extended to July 1, 2025.

Additional Beach Recovery Actions

Clam Bayou

- *Alternatives evaluation*
- *Permitting; sand recovery & placement*
 - *DEP 15-year JCP submitted 12/6/2024*
 - *USACE Emergency Permit (Hurricanes Helene & Milton) submitted 12/6/2024*



Grant Funding & Project Costs

	Emergency Berm/Beach Recovery		Sanibel Lighthouse Protection		Clam Bayou	Post Milton Gullies	Total	Funding	
	FEMA Eligible	Non FEMA	Phase 1	Phase 2				Allocated	Remaining
Sand Placement	\$ 10,336,753		\$ 910,585	\$ 5,143,355		\$ 1,679,128	\$ 18,069,821		
Sand Purchase	\$ 3,204,724		\$ 184,518	\$ 1,107,264		\$ 345,660	\$ 4,842,167		
Design/Engineering	\$ 344,939	\$ 66,611		\$ 34,708			\$ 446,258		
Monitoring	\$ 15,236	\$ 156,970					\$ 172,206		
Fencing	\$ 2,195	\$ 459					\$ 2,654		
Sand Recovery					\$ 51,437		\$ 51,437		
TOTAL	\$ 13,903,848	\$ 224,040	\$ 1,095,103	\$ 6,285,327	\$ 51,437	\$ 2,024,788	\$ 23,584,542		
FEMA	\$ 5,311,270						\$ 5,311,270	\$ 10,222,954	\$ -
FDEP	\$ 8,592,578	\$ 224,040	\$ 1,095,103	\$ 6,285,327	\$ 51,437	\$ 2,024,788	\$ 18,273,273	\$ 26,973,000	\$ 8,699,728

Potential Additional Work: Dune plantings, sand placement (Clam Bayou, North Sanibel)

Potential for Additional Funding: DEP Hurricane Helene & Milton Recovery Funds, Hurricane Milton FEMA Category B

Project Team

- ✓ *Humiston & Moore Engineers
Naples, FL*
- ✓ *Eastman Aggregates, Inc Lake
Worth, FL*
- ✓ *Vulcan Materials
Witherspoon Mine,
Moore Haven, FL*
- ✓ *Oceanside Solutions
Satellite Beach, FL*
- ✓ *Earth Tech Enterprises
Fort Myers, FL*
- ✓ *City of Sanibel: City Council,
Natural Resources, Finance,
Public Works, Legal, Police,
Admin, PIO, IT*



- ✓ *Partners-SCCF, USFWS “Ding”
Darling, FDOT, Sanibel Fire, San-
Cap Chamber*
- ✓ *Gulf-front property owners*
- ✓ *Sanibel Community*