

PROJECT OVERVIEW

The Flagler County, Florida Coastal Storm Risk Management (CSRM) project is a federally-authorized 50-year project designed to provide sustainable coastal storm risk management for property; infrastructure such as evacuation route SR A1A; environmental habitat; and provide for recreation opportunities.



Once constructed, the project will provide a holistic, environmentallyfriendly defense against future storms, beach erosion, and sea level rise. Anticipated to significantly reduce potential storm impacts than without a project, the project fosters a more resilient coastal environment and community, and in the event of a storm, a faster and less costly post-storm recovery. In addition, after initial construction, the project becomes eligible for emergency beach renourishment following significant storm events.

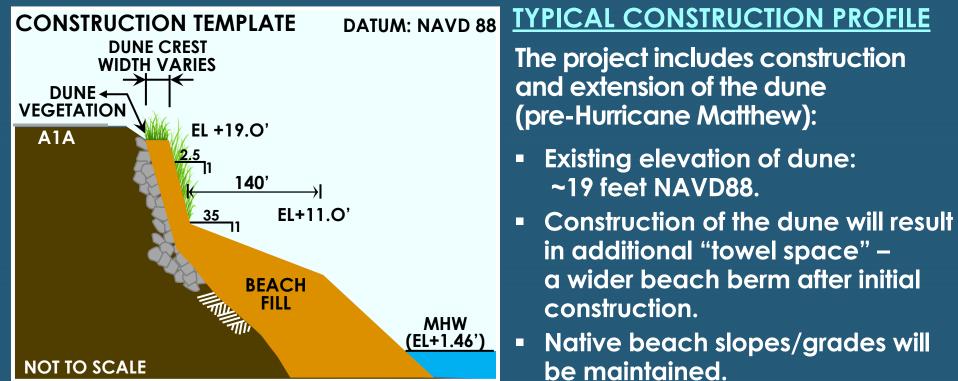
PROJECT CONSTRUCTION

- Federal Participation: 50-year project life (after initial construction)
- Initial Sand Volume: ~ 1,310,000 cubic yards
- Borrow Source: ~11.75 miles offshore
- Renourishment Interval: ~ 11 years
- Estimated Construction Duration: 9 months (June 2024 March 2025)

ESTIMATED RENOURISHMENT SCHEDULE

USACE and the local sponsor will monitor the beach frequently to ensure renourishment needs are met, including those after a major storm event.

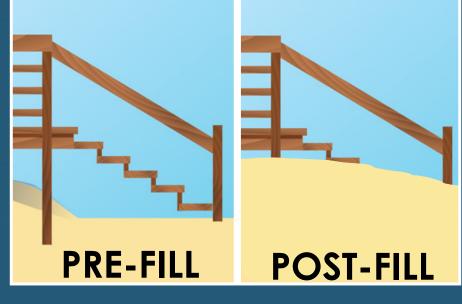
	2035	2040	2057	2000
Initial Construction	1 st Renourishment	l 2 nd Renourishment	3 rd Renourishment	4 th Renourishment

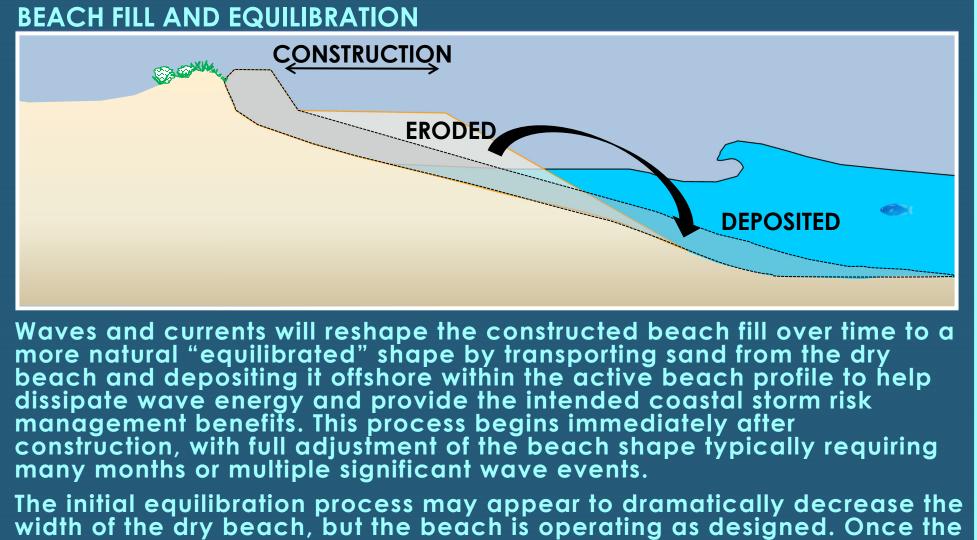


The above profile reflects the average need for sand across the project area.

PUBLIC AND PRIVATE DUNE WALKOVERS

- The contractor will place sand on, around and underneath each walkover to maintain a continuous protective dune.
- Sand will naturally equilibrate and expose walkover steps over time.





beach has reached an equilibrium condition, the beach is expected to recede at a slower rate.

Google Earth

X FLAGLER COUNTY COASTAL STORM RISK MANAGEMENT (CSRM) PROJECT POSTER DEPICTS INITIAL NOURISHMENT ONLY | COORDINATION OF A NON-FEDERAL COMPONENT WITH THE FEDERAL PROJECT MAY NOT BE INDICATIVE OF FUTURE NOURISHMENTS

NORTHERN NON-FEDERAL PROJECT (ESTIMATED150,000 CUBIC YARDS) N 7TH STREET TO S 6TH STREET TRUCK HAUL | HWY 100 EQUIPMENT ACCESS (~10,000 CY*)

FLAGLER BEACH PIER REHABILITATION

TRUCK HAUL | 6TH STREET EQUIPMENT ACCESS (~10,000 CY^{*})

FEDERAL PROJECT ~1,310,000 CY*) TH STREET TO'S 28TH STREET

LEGEND (NOT TO SCALE)

CONSTRUCTION ACCESS

CONSTRUCTION STAGING AREAS

NON-FEDERAL PROJECT

FEDERAL PROJECT

FDOT PROJECT

PIER REHABILITATION

ESTIMATED CUBIC YARDS (CY)

7 Hopper dredge pumps sand to beach via a pipeline



PUBLIC ACCESS DURING CONSTRUCTION

BORROW AREA 3A

FLAGLER

COUNTY

Flagler Beach

For safety purposes, beach access is prohibited in the active construction zone.

Outside the active construction zone, sand ramps for public access will be constructed over pipelines every 200-300 feet.

arineland

Painters Hill

Beverly Beach

orrow Area

ot to scale

(~10,000 CY*)

PEBBLE BEACH HOA

NON-FEDERAL PROJECT (~120,000 CY*) **S 28TH STREET TO GAMBLE RODGERS STATE PARK**

WATER TOWER (STAGING ONLY)

FLAGLER COUNTY **VOLUSIA COUNTY**

FOR MORE INFORMATION, PLEASE VISIT: WWW.SAJ.USACE.ARMY.MIL/MISSIONS/CIVIL-WORKS/SHORE-PROTECTION/FLAGLER-COUNTY/

Hopper dredge excavates sand from seafloor.







Bulldozers distribute the sand to achieve the project design.

- Bulldozers operate on a 24-hour basis
- For safety purposes, back-up alarms are activated to run continuously during construction
- Safety personnel will be onsite to direct the general public away from potential hazards

TRUCK HAUL | PEBBLE BEACH EQUIPMENT ACCESS

FDOT SECANT WALL (WATER TOWER SOUTH THROUGH VOLUSIA COUNTY)

NOT TO SCALE

ENVIRONMENTAL AND CULTURAL CONSIDERATIONS ENVIRONMENTAL AND CULTURAL BENEFITS

- Reduced damages to Scenic and Historic **Coastal Byway**
- Dune extension to be vegetated with native plants to stabilize the dune and promote wildlife usage: Nesting habitat
 - Threatened Species:
 - Loggerhead Turtles
 - Endangered Species: Leatherback Turtles, Green Turtles, **Piping Plover**
- Shelter (protection from predators)
- ► Food source (for various wildlife)
- Biodiversity (increased plant) species variety)
- If any dune vegetation is disturbed during construction, it will be replaced with native vegetation

PLANTING RATIOS



- **Biodiversity (increased plant species)** ~ 3 acres of continuous nesting habitat
- (sea turtles and shore birds) over 50 years compared to zero habitat in the future without project condition



ENVIRONMENTAL MONITORING **DURING CONSTRUCTION**

- Turbidity is monitored at the placement location.
- Equipment operating in the project area is routinely monitored.
- Standard manatee and marine animal monitoring and protective measures are employed during project construction.
- Beach tilling will occur after construction and any escarpments will be removed.
- The project will be monitored and surveyed after construction to check sand volume and the condition of the beach.



