



**FLORIDA KEYS RESILIENCE**  
**US ARMY CORP OF ENGINEERS FLORIDA KEYS COASTAL STORM RISK**  
**MANAGEMENT PROJECT**

**BACKGROUND**

Monroe County undertook, and recently completed, a three-year Florida Keys Coastal Storm Risk Management Study with the United States Army Corp of Engineers, following Hurricane Irma. The approved plan recommends three (3) project components to reduce coastal storm risk and damage throughout the Florida Keys and enhance its resilience.

These are the three project components:

- **Shoreline stabilization in six different locations along U.S. Route 1** (Overseas Highway, “US 1”) that were identified as having risk of damage due to erosion and/or wave energy during storm events.
- Dry flood proofing of 53 critical infrastructure buildings identified as at risk to damage from coastal storms to reduce the damage caused by storm surge to the critical infrastructure.
- Elevations to reduce coastal storm damage to 4,698 residential and flood proofing for 1,052 commercial structures at risk throughout the Keys.

Link to the complete study: [Florida Keys Coastal Storm Risk Management Feasibility Study \(army.mil\)](https://www.army.mil/florida-keys-coastal-storm-risk-management-feasibility-study)

**US 1 REVETMENTS AND SHORELINE STABILIZATION COMPONENT**

Of the three recommended actions, the first above addresses protection of US 1, an FDOT asset critical to the Florida Keys for economic survival and safe evacuation of the populace.

Locations where US 1 is 100 feet or less from the Atlantic Ocean shoreline were analyzed. Based on information provided by FDOT of damage to US 1 from Hurricane Irma in 2017 six (6) locations were identified for stabilization via rock revetment structures. These revetment structures range in height from four to ten feet NAVD88 and are designed to reduce damage to approximately 5,500 linear feet of roadway by stabilizing the shoreline and reducing the risk of washout.

The USACE estimated costs are \$1.3M for design and \$16.0M for construction of the proposed revetments along the shoreline adjacent to US-1 in six (6) locations. The USACE will fund 65% of this cost, and requires a 35% non-federal match.

Monroe County’s project received a congressional appropriation of \$916,000 for preconstruction engineering and design of the US revetments.

Consequently, the County seeks Department support to fund the non-federal matching funds for this project and request that the Department include it in the Department’s upcoming 5 year work plan.

Diagrams of the six revetment locations are included on following page.



**ACTION REQUESTED**

Monroe County requests that the Department program into the upcoming year’s work program \$496,000 as match for the USACOE congressional funding request for design.

# SITES OF REVETMENTS

## Fiesta Key and Long Key (MM70 and 67, respectively)



## Bahia Honda & West Summerland (Scout) Keys (MM 37 and 34, respectively)



## Indian Key Fill & Fiesta Key (MM 79.5 and 70.3, respectively)

