



BOARD OF COUNTY COMMISSIONERS

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2021 CRS Annual Floodplain Management Progress Report

Community Name: Monroe County, Key Colony Beach, Key West, Marathon, Islamorada, Layton

Name of Plan: Monroe County Local Mitigation Strategy

Date of Adoption of Plan: February 9, 2021

5 Year CRS Expiration Date: February 8, 2026

Background

The Board of County Commissioners directed the Monroe County Emergency Management Department to coordinate and facilitate the development of the LMS, and subsequent 5-year updates, in conformance with state and federal guidelines. The plan was developed in a joint and cooperative manner by members of a Local Mitigation Strategy Working Group (LMSWG) which included representatives of Monroe County, Key Colony Beach, Key West, Marathon, Islamorada, Layton, federal and state agencies, citizens, and other stakeholders. This plan will ensure all jurisdictions in Monroe County remain eligible for federal disaster assistance including the FEMA HMGP, BRIC, and FMA programs. The 2021 Update replaces the 2015, 2010 and 2005 Updates of the 1999 LMS.

The plan has been prepared in compliance with Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act or the Act), 42 U.S.C. 5165, enacted under Section 104 of the Disaster Mitigation Act of 2000, (DMA 2000) Public Law 106-390 of October 30, 2000, as implemented at CFR 201.6 and 201.7 dated October 2007. Additionally, the plan meets the requirements set forth by the Florida Administrative Code Chapter 27P-22.

As a requirement to participate in the Community Rating System, the LMSWG must annually evaluate the LMS as their floodplain management planning document. Jurisdictions participating in the CRS program are required to submit, as part of the annual CRS recertification process, an annual evaluation report on the progress in implementing the LMS. This report is prepared to meet Community Rating System Activity 510 Floodplain Management Planning, Element 512.a. Step 10.

A copy of the 2021 Monroe County Local Mitigation Strategy is available at the Monroe County Emergency Management website: <https://www.monroecounty-fl.gov/911/Local-Mitigation-Strategy>

Annual Progress Report Preparation, Distribution and Availability:

This report was prepared by Lori Lehr, CRS Consultant for Monroe County. The Monroe County Local Mitigation Strategy Committee meets quarterly to discuss the progress of action items and mitigation efforts. This progress report reflects the progress goals and objectives in the Local Mitigation Strategy. The meeting agendas and presentation are available upon request.

The annual progress report is made available to all jurisdictions and their governing bodies, the media, and the public via each jurisdiction's website. A copy of the report is sent annually to the State of Florida NFIP Coordinator's office via email.

Implementation of Action Items:

In the post-Irma environment, the LMSWG meets regularly to discuss the mitigation funding opportunities and project implementation. The group also meets to participate in mitigation training. In 2021, the group met in March, July, September, October, and December. Each participating community has a list of mitigation projects specific to the jurisdiction and there are numerous projects that benefit all municipalities and their mitigation efforts.

Projects are being ranked and implemented on schedule as funding becomes available. Table 7.1 below indicates the progress of each of the 163 listed projects listed in the LMS Action Plan. The Table was updated in 2021 as part of the LMS update process

Table 7.1 – Mitigation Action Plan

| Action # | Jurisdiction(s) | Action Description | Hazard(s) Addressed | Goal & Objective Addressed | Priority | Mitigation Category | Lead Agency / Department | Cost Estimate | Potential Funding Source | Implementation Timeline | 2021 Status | 2021 Implementation Status Comments |
|----------|----------------------------------|---|---------------------|----------------------------|----------|-----------------------------|------------------------------------|---------------|--------------------------|-------------------------|-----------------|--|
| 1 | Monroe County and municipalities | Saferoom enhancements for County EOC in conjunction with design and construction of new facility. The current facility is shared with the County Commission which presents issues when a Commission meeting is scheduled during a time when an emergency event may be threatening the County. | All | 1.2 | H | Emergency Services | Monroe County Emergency Management | \$10,000,000 | EMPG, HMGP, BRIC, FMA | 2 years | Carried Forward | Monroe County estimates that this action is approximately 20% complete; HMGP, FDOT, and State Allocation has been awarded and the project is in the design phase |
| 2 | Monroe County and municipalities | Emergency Management Training Programs: The County will conduct regular training for EOC personnel and all emergency response personnel. Provide orientation and training for all designated EOC personnel, including procedures, technology, communications, facility layout, etc. Plan and improve hurricane drills with more realistic scenarios | All | 1.2 | M | Emergency Services | Monroe County Emergency Management | | Staff Time | 2022 | Carried Forward | Monroe County estimates that this action is approximately 75% complete. Training is ongoing per MYTEPP. |
| 3 | 5088 | Florida Keys Imperiled Water Supply Protection | All | 3.2 | H | Natural Resource Protection | FKAA | \$9,634,514 | HMGP | 2023 | Carried Forward | FKAA received notice of award. FKAA selected design engineer through RFQ process. FKAA is awaiting for signed agreement with FDEM before proceeding |

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| 4 | Monroe County and Municipalities | Production of a Mitigation Program Technical Assistance and Resource Manual: During the Working Groups activities and discussions, it was determined that there was a need for an assistance manual to identify mitigation assistance programs and provide direction on how to apply for funds and grants such as the federal HMGP. This manual would be especially useful to small agencies and private non-profits that are invited to apply for state and federal grants, but may not have the technical knowledge to complete the application process. The manual would also include a listing and description of various government | All | 2.2 | M | Preventive and Regulatory | Monroe County Planning and Environmental Resources | \$10,000 to \$50,000 | FMA, BRIC, HMGP | 2 yrs | Carried Forward | No progress has been made toward this action to date. |
| 5 | Monroe County and municipalities | As a group, the LMS should coordinate with agencies and utility providers responsible for critical infrastructure to express | Tropical Cyclones, Flood, Sea Level Rise, Coastal Erosion, | 2.2 | M | Preventive and Regulatory | County/Jurisdictional Planning and | Less than \$10,000 | Staff Time | 2020-2025 | Carried Forward | By including utility organizations as part of the LMSWG, the |

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| | | need to incorporate flood, wind, sea level rise, and coastal erosion protection into infrastructure maintenance, upgrades, and new construction. When infrastructure maintenance and upgrade projects are planned by agencies and utility providers such as Florida DOT or the Florida Keys Aqueduct Authority (e.g., repaving or elevating a road), the Working Group should express an opinion, as appropriate, that mitigation should be considered with the proposed project. These infrastructure investments represent an opportunity to add in a mitigation component like a drainage upgrade during a road | Severe Storm, Tornado/Waterspout, Wildfire, Drought | | | | Engineering Departments | | | | | County encourages consideration of hazards by these entities. This is a continually important strategy moving forward. |
| 6 | Monroe County and municipalities | Evaluate Hazard Identification and Risk Assessment Tools. The Working Group will evaluate the Hazard Identification and Risk Assessments that were prepared for at least two other counties and determine whether using different tools (e.g. FEMA's Hazards US) would significantly improve the outcomes reflected in the 2010 update. The anticipated update of the Sea, Lake, and Overland Surge from Hurricanes (SLOSH) projections may also influence future | All | 3.3 | M | Preventive and Regulatory | County Emergency Management Department with Jurisdictional Representatives | Less than \$10,000 | Staff Time | 2020-2025 | Carried Forward | In this update of the plan, the LMS utilized FEMA Hazus technology and incorporated risk information from various community, regional, and state planning efforts. The County will continue to learn from neighboring communities for the next plan update. |

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| 8 | Monroe County and municipalities | Verify Repetitive Loss Property Data - Monroe County and municipalities that participate in the CRS will verify the repetitive loss property data obtained from FEMA. The NFIP maintains records of past flood insurance claims and tracks properties that have received multiple claims. These properties and similarly situated buildings present likely opportunities for mitigation. Verifying the data serves two purposes: it helps the NFIP improve its records, and it helps identify Repetitive Loss Areas. Prepare Repetitive Loss Area Maps - Monroe County and municipalities that prepare Repetitive Loss Area Analyses will identify repetitive loss areas within their jurisdiction using the methods described in FEMA/CRS guidance. Identification of Repetitive Loss Areas helps identify property owners who may be interested in reducing | Flood | 2.2 | H | Preventive and Regulatory | County/Jurisdictional Floodplain Management | \$10,000 to \$50,000 | Staff Time | 2020-2025 | Carried Forward | This action is ongoing in the communities with identified repetitive loss properties. Data verification occurs annually and repetitive loss area maps are updated upon request. |
| 9 | Monroe County and municipalities | County-Wide Emergency Back-Up Power Enhancement for Critical Facilities | All | 3.2; 1.3 | H | Property Protection | Monroe County Public Works | \$6,000,000 | HMGP, BRIC | 2020-2025 | Carried Forward | Under ENG Review, Monroe County estimates 20% progress toward completion |
| 10 | Monroe County and municipalities | Acquisition-Demolition of Residential Structures | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Property Protection | County Emergency Management Department with Jurisdictional Representatives | Over \$1,000,000 | HMGP, BRIC, FMA, CDBG-DR | 2020-2025 | Carried Forward | Under ENG Review; to date no progress has been made on this action. Multiple actions from the 2015 initiatives list are contained under this |

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| 11 | Monroe County and municipalities | Elevate Buildings Located within Floodprone Areas | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Property Protection | County Emergency Management Department with Jurisdictional Representatives | \$5,225,000 | HMGP, BRIC, FMA, CDBG-DR | 2020-2025 | Carried Forward | FEMA Number requested; multiple actions from the 2015 initiatives list are contained under this larger umbrella |
| 12 | Monroe County and municipalities | Residential Mitigation Reconstruction Project | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Property Protection | County Emergency Management Department with Jurisdictional Representatives | \$22,500,000 | HMGP, BRIC, FMA, CDBG-DR, HLMP | 2020-2025 | Carried Forward | To date, no progress has been made on this action; multiple actions from the 2015 initiatives list are contained under this larger umbrella |
| | | | | | | | | | | | | |
| 13 | Monroe County and municipalities | Trailer Park Acquisition and Reconstruction Sites A, B, C, D, & F | Tropical Cyclones, Flood, Tornado/Waterspout, Severe Storm, Sea Level Rise | 1.3 | M | Property Protection | County Emergency Management Department with Jurisdictional Representatives | \$19,625,000 | HMGP, BRIC, FMA, CDBG-DR, HLMP | 2020-2025 | Carried Forward | No progress has been made toward the completion of these sites to date. Each sites unique cost estimate can be found in the prioritized list in |
| 14 | Monroe County and municipalities | Wind Retrofit of County Facilities | Tropical Cyclones, Tornado/Waterspout, Severe Storms | 1.3 | M | Property Protection | Monroe County Public Works | \$8,837,280 | HMGP, BRIC, HLMP | 2020-2025 | Carried Forward | Under ENG Review, this project is considered to be a back-up project |
| 15 | Monroe County and Municipalities | Residential Wind Retrofitting Project | Tropical Cyclones, Tornado/Waterspout, Severe Storms | 1.3 | M | Property Protection | County Emergency Management Department with Jurisdictional Representatives | \$1,925,000 | HMGP, BRIC, HLMP, CDBG-DR | 2020-2025 | Carried Forward | No progress has been made toward this action to date. |

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| 16 | Monroe County and Municipalities | Comprehensive hazard mitigation (prevention) education and outreach program targeted to government employees, the construction industry, and trades, and the general public. During the development of the LMS the working group identified the need to provide information about the mitigation concept and how to use it. To address education government employees about the benefits of mitigation awareness, training programs, and materials will be developed. Through this training, agencies' staff will understand the concept of reduction of loss and risk and be able to apply it at their jobs and homes. The project would involve the construction industry by developing educational materials and arranging for seminars through the private sector. Businesses such as private contractors and building supply companies would help arrange for and participate in the programs. Groups such as building officials and public works and construction staff could participate. Local governments will be encouraged to allow their personnel | All | 1.1 | M | Public Information and Outreach | County Emergency Management Department with Jurisdictional Representatives | \$10,000 to \$50,000 | FMA, BRIC, HMGP | 2020-2025 | Carried Forward | No progress has been made toward this action to date. |

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| | | be submitted to the appropriate authorities to determine eligibility for CEU credits. Finally, a mitigation brochure will be produced and distributed to the public. It will include information about government mitigation programs (such as elevating utilities and techniques to strengthen homes from hazards). Public information campaigns will be targeted at such groups as condo and homeowners associations. | | | | | | | | | | |
| 17 | Monroe County and municipalities | Promote hurricane and flood awareness to residents and businesses. Once residents and businesses become more aware of their risk, they are more likely to mitigate their property and support community efforts to mitigate. Risk awareness can be challenging in most parts of Florida with long intervals between events and with new residents moving in. The LMS working group should actively seek effective risk communication information and opportunities to promote steps businesses and residents can take to | Tropical Cyclones, Flood | 1.1 | H | Public Information and Outreach | County/Jurisdictional Emergency Management / Planning Departments | \$10,000 to \$50,000 | Staff Time | 2020-2025 | Carried Forward | Monroe County has a multi-jurisdictional PPI in place. The County and municipalities continue to use education and outreach throughout the County. |
| 18 | Monroe County and municipalities | Replacement of Storm Damaged wastewater treatment facility: locations could include package treatment plants that serve small communities and businesses | All | 2.1 | M | Structural Projects | Monroe County Public Works | Over \$1,000,000 | HMA, FMA, BRIC, HMGP | 3 years | Carried Forward | No progress has been made to date on this action. |
| 19 | Monroe County and municipalities | County-wide Road Elevation and Drainage Improvements (Phase 1 of 2) | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | M | Structural Projects | Monroe County Roads and Bridges ; Monroe County Public Works | \$367,200,000 | HMGP, BRIC, FMA, CDBG-MIT | 2020-2025 | Carried Forward | Back-up project; to date no progress has been made toward completion. |
| 20 | Monroe County and municipalities | Purchase New Wellfield for water supply to address threat of saltwater intrusion and hypersaline water from FPL cooling canals. | All | 2.1 | H | Natural Resource Protection | FCAA | \$4,000,000 | BRIC, HMGP, CDBG-MIT | 2024 | New | Project currently in Planning Phase |

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| 21 | Monroe County and municipalities | Natural Resources Adaptation Plan | Tropical Cyclones, Flood, Sea Level Rise | 2.2 | H | Natural Resources Protection, Preventive and Regulatory, Property Protection | Monroe County Planning and Environmental Resources | \$142,000 | BRIC, HMPG | 3 Years | New | New Project. |
| 22 | Monroe County and municipalities | Engine generators at Water Treatment Plant | All | 2.1 | M | Property Protection | FCAA | \$1,500,000 | HMGP, BRIC, HLMP, CDBG | Jun-23 | New | Project currently in Planning Phase |
| 23 | Monroe County and Municipalities | Hospital Hardening: Evaluate/identify necessary improvements needed to retrofit hospital facilities and perform needed retrofits to mitigate storm damages. Facilities include: Lower Keys Health Systems, De Poo Hospital, Fisherman's Hospital, Mariners' Hospital, Nursing Homes (including Bayshore Manor) | All | 1.3 | M | Property Protection | LKMC/Baptist Health/Monroe County | Over \$1,000,000 | HMGP, BRIC, CDBG-MIT, HLMP | | New | New Project. |
| 24 | Monroe County | Emergency Communications and Warning Upgrades | All | 1.2 | M | Emergency Services | Monroe County Emergency Management | \$600,000 | BRIC, CDBG-DR, CDBG-MIT, Port Security | 2020-2025 | Carried Forward | No progress has been made on this action to |
| 25 | Monroe County | Phone System/Communications Upgrades | All | 1.2 | H | Emergency Services | Monroe County IT | \$400,000 | BRIC, Port Security | 2020-2025 | Carried Forward | Monroe County estimates 75% progress toward completion. |
| 26 | Monroe County | Department of Health Emergency Operations Center (EOC) in the Tavernier area close to their special needs | All | 1.2 | H | Emergency Services | Monroe County & State Health Department | \$100,000 | EMPG, HMGP, BRIC, FMA | 2020-2025 | Carried Forward | No progress has been made on this action to date. |

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| 32 | Monroe County | Evaluate existing and proposed infrastructure and facilities to identify recommendations to increase resiliency and account for dynamic hazards including flood, wind, sea level rise, coastal erosion, and strong storms. Infrastructure and facilities provide services the whole community depends on for basic functioning. Monroe County will review new projects for recommendations to increase resiliency prior to inclusion in the Capital Improvements Element of the Comprehensive Plan and evaluate options for protecting infrastructure in vulnerable areas. Infrastructure includes new, renovated and replacement public facilities such as streets and bridges, water and wastewater treatment plants, police stations and fire stations, and any other public buildings and facilities. Options may include hardening, elevating, relocating, or not building new | Tropical Cyclones, Flood, Tornado/Water Spout, Sea Level Rise, Coastal Erosion, Severe Storms | 2.1 | M | Property Protection | Monroe County Emergency Management | \$10,000 to \$50,000 | Staff Time | 2020-2025 | Carried Forward | Monroe County estimates that this action is approximately 80% complete. |
| 33 | Monroe County | Murray Nelson Cultural Center Emergency Backup Generator for SpNS Population: Purchase and installation of generator to provide emergency backup power for SpNS sheltering population during all hazard | All | 1.3 | H | Property Protection | Monroe County Public Works | \$500,000 | BRIC, HMGP, CDGB-MIT | 2022 | Carried Forward | No progress has been made to date on this action. |
| 34 | Monroe County | Old City Hall Flood Retrofit: install flood panel system for double doors on Ann Street | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | M | Property Protection | Historic Florida Keys Foundation | \$15,000 | BRIC, HMGP, FMA | 2020-2025 | Carried Forward | No progress has been made on this action to date. |
| 35 | Monroe County | Higgs Beach (KW) Seawall Replacement Project for flood water protection of the | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Structural Projects | Monroe County Public Works | \$1,050,000 | HMA, FMA, BRIC, HMGP | 2020-2025 | Carried Forward | No progress has been made on this action to |

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| 36 | Monroe County | Twin Lakes and Sands Subdivision Drainage Improvement and Roadway Elevation Project | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Structural Projects | Monroe County Roads and Bridges/ Engineering | \$3,900,000 | HMGP, BRIC, FMA | 2020-2025 | Carried Forward | Under ENG Review and considered a back- up project. The County intends to submit for BRIC funding. |
| 37 | Monroe County | West Martello Seawall Improvements | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Structural Projects | Monroe County Public Works | \$500,000 | HMGP, BRIC, FMA | 2020-2025 | Carried Forward | To date, no progress has been made on this action. |
| 38 | Monroe County | Become certified under Emergency Management Accreditation Program | All | 1.2 | M | Emergency Services | Monroe County Emergency Management | Less than \$10,000 | Staff Time | 3 | new | New Project. |
| 39 | Monroe County | Monroe County Handheld Radionuclide Identification Device | Radiological Incidents | 1.2 | M | Emergency Services | Monroe County Emergency Management | \$15,000 | BRIC | 2 Years | New | New Project. |
| 40 | Monroe County | Portable Radiological Portal Monitors | Radiological Incidents | 1.2 | M | Emergency Services | Monroe County Emergency Management | \$50,000 | BRIC | 2 Years | New | New Project. |
| 41 | Monroe County | Monroe County Emergency Management Inflatable Decontamination Tent for Emergency Worker Decontamination | Radiological Incidents | 1.2 | M | Emergency Services | Monroe County Emergency Management | \$50,000 | BRIC | 2 years | New | New Project. |
| 42 | Monroe County | Monroe County complete requirements to achieve Storm Ready recognition from NOAA National Weather Service | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 1.2 | M | Public Information and Outreach; Emergency Services | Monroe County Emergency Management | Less than \$10,000 | Staff Time | 1 year | New | New Project. |
| 43 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Marathon Generation | All | 2.1 | M | Structural Projects | FKEC | \$40,000,000 | HMGP, BRIC | | Carried Forward | No progress has been made on this action to date. |
| 44 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Distribution water crossing overhead to underground | All | 2.1 | M | Structural Projects | FKEC | \$35,000,000 | HMGP, BRIC, FMA | | Carried Forward | No progress has been made on this action to date. |
| 45 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Main Feeder Pole Replacement | All | 2.1 | M | Structural Projects | FKEC | \$3,000,000 | HMGP, BRIC, FMA | | Carried Forward | Under ENV Review |

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| 46 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Sea Oats Beach Transmission Line Relocation | All | 2.1 | M | Structural Projects | FKEC | \$6,500,000 | HMGP, BRIC, FMA | | Carried Forward | Under FEMA Review |
| 47 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Self-Supporting Transmission Poles | All | 2.1 | M | Structural Projects | FKEC | \$6,000,000 | HMGP, BRIC, FMA | | Carried Forward | Contract submitted for FDEM execution |
| 48 | Monroe County, Marathon, Islamorada, Key Colony Beach, | Transmission Water Structure | All | 2.1 | M | Structural Projects | FKEC | \$10,500,000 | HMGP, BRIC, FMA | | Carried Forward | In contracting process. |
| 49 | Monroe County and Key West | Improve Satellite Communication | All | 1.2 | M | Emergency Services | KEYS Energy Services | \$257,190 | BRIC | | Carried Forward | Reviewing alternatives for internet connection - still in technical development |
| 50 | Monroe County and Key West | Storm Hardening of Electrical Service to Critical Government Facilities | All | 3.2 | M | Property Protection | KEYS Energy Services | \$3,145,000 | HMGP, BRIC, CDBG | | Carried Forward | The FDEM contract has been submitted to the utility board and is pending approval |
| 51 | Monroe County and Key West | Backup Generators for Critical Facilities | All | 1.2 | M | Property Protection | KEYS Energy Services | \$200,000 | HMGP, BRIC, CDBG-DR, CDBG-MIT | | Carried Forward | This action is still in progress. To date, 4 locations have been completed. |
| 52 | Monroe County and Key West | Harden Material Distribution Center | All | 2.1 | M | Property Protection | KEYS Energy Services | \$9,262,500 | HMGP, BRIC, CDBG-DR, CDBG-MIT | | Carried Forward | This action is in progress and is currently bond funded. The new warehouse is under construction. |
| 53 | Monroe County and Key West | Transmission Pole Water Crossing | All | 2.1 | M | Structural Projects | KEYS Energy Services | \$8,171,954 | HMGP, BRIC, FMA | | Carried Forward | Under ENV Review |

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| 54 | Islamorada, Key Colony Beach, Key West, Layton, Marathon | Evaluate protective measures for critical infrastructure and facilities to protect against dynamic hazards including flood, wind, sea level rise, and strong storms. Critical facilities provide services that the whole community depends on for basic functioning. The communities will evaluate the need for protecting critical facilities and infrastructure and address as needed. | All | 2.1 | M | Property Protection | Jurisdiction Engineering/Public Works | \$10,000 to \$50,000 | Staff Time | 2020-2025 | Carried Forward | Islamorada: Facilities to be addressed have been identified (fire stations and wastewater facility); funding for main fire station and wastewater facility are in the RFP process. The other two stations are in the queue. The community hopes to floodproof these facilities that sit at BFE+1'. Key Colony Beach is currently in the planning phase to build a new City Hall and will begin demolition and construction soon. Key West has developed a multi-department adaptation team; |

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| | | | | | | | | | | | | are in progress and planning grants have been applied for (Home elevation education and post disaster redevelopment plan grants have been received) Layton has retrofitted roof systems to 18- mph with heavy insulation and replaced all windows with impact windows. Elevation of buildings and landscaping projects. |
| 55 | Islamorada | Emergency Communications System, including communication and notification system comprised of video and cable components to augment the local cable system, local municipal radio communications system, and satellite communications | All | 1.2 | H | Emergency Services | Islamorada Fire Rescue; Islamorada IT & Communications | \$100,000 to \$500,000 | BRIC, CDBG-MIT | 2020-2025 | Carried Forward | Islamorada has added at least 5 means of external communication from the EOC and conducted training on HAM radio operations training. The community has POCs with SatCom companies to place |
| 56 | Islamorada | Emergency Back-up power for Critical Facilities | All | 1.3 | H | Property Protection | Islamorada Public Works | \$500,000 | HMGP, BRIC | 2023 | Carried Forward | In contracting process. |
| 57 | Islamorada | Flood-proofing for Fire Stations (3) | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Property Protection | Islamorada Fire Rescue; Islamorada Public Works | \$300,000 | HMGP, BRIC, FMA | 2025 | Carried Forward | Back-up project for Islamorada. |
| 58 | Islamorada | Wastewater System Mitigation | All | 2.1 | M | Property Protection | Islamorada Wastewater Utility; Islamorada Public Works | \$600,000 | HMGP, BRIC, FMA | 2025 | Carried Forward | The contract is currently being modified. |
| 59 | Islamorada | Fire Station 20 FEMA 361 Saferoom for First Responders | All | 1.3 | M | Structural Projects | Islamorada Public Works | \$6,000,000 | HMGP, BRIC, FMA | 2023 | Carried Forward | This project is in the design phase. |

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| 60 | Islamorada | Overseas Highway/ Sea Oats Beach Flood and Erosion Protection | Tropical Cyclones, Flood, Sea Level Rise, Coastal Erosion | 2.1 | H | Structural Projects | Islamorada Public Works | \$10,000,000 | HMGP, BRIC, FMA | 2024 | Carried Forward | Under ENG Review |
| 61 | Key West | EOC Upgrades | All | 1.2 | M | Emergency Services | Key West Engineering | \$281,400 | EMPG, HMGP, BRIC, FMA | 2021 | Carried Forward | To date, generator is hooked up. |
| 62 | Key West | Planning/Development of Sister City EOC: Develop a plan and implement a Sister City Emergency Operations Center for large scale pre & post disaster situations | All | 1.2 | M | Emergency Services | Department of Emergency Management | \$40,000 | EMPG, HMGP, BRIC, FMA | 2024 | Carried Forward | No progress |
| 63 | Key West | Emergency warning signal: install a siren or message device to be heard all across the city. | All | 1.2 | M | Emergency Services | Key West Information Technology Dept; General Services Department | \$200,000 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress |
| 64 | Key West | HM Strategies Planning Support | All | 2.2 | H | Preventive and Regulatory | Key West Floodplain Management | \$75,000 | BRIC | 2022 | Carried Forward | No grants have allowed for this yet |
| 65 | Key West | Post-Disaster (Flood) Recovery Plan | Flood | 1.2 | H | Preventive and Regulatory | Key West Engineering | \$40,000 | BRIC;FMA | 2021 | Carried Forward | Won FDEO Grant |
| 66 | Key West | Repetitive Loss Property Mitigation Planning Support | Tropical Cyclones, Flood, Sea Level Rise | 2.2 | H | Preventive and Regulatory | Key West Floodplain Management | \$45,000 | HMGP, BRIC, FMA, CDBG-DR | 2023 | Carried Forward | No grants have allowed for this yet |
| 67 | Key West | Reconstruction of Key Plaza Site B: Demolition and Reconstruction of 50 affordable apartment units. | Tropical Cyclones, Flood, Tornado/Waterspout, Sea Level Rise | 1.3 | M | Property Protection | Housing Authority of Key West | \$6,775,000 | BRIC, HMGP | 2024 | Carried Forward | No progress; Key West is following up with the Housing Authority |
| 68 | Key West | Rehabilitation and Retrofit of George Allen Apartments: Rehabilitation, Window replacement, & retrofit shutters to Dade County approved wind resistance for 117 | Tropical Cyclones, Tornado/Waterspout, Severe Storms | 1.3 | H | Property Protection | Housing Authority of Key West | \$550,000 | BRIC, HMGP, HLMP | 2024 | Carried Forward | No progress; Key West is following up with the Housing Authority |
| 69 | Key West | Generators for Critical Facilities (5) | All | 1.3 | H | Property Protection | Key West Engineering | \$278,000 | HMGP, BRIC | 2021 | Carried Forward | In contracting process. |
| 70 | Key West | Wind-Retrofit(s) of First Responder Facilities | All | 3.2 | H | Property Protection | Key West Engineering | \$650,000 | HMGP, BRIC | 2021 | Carried Forward | In contracting process. |

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| 71 | Key West | Fire Station 3 | All | 1.3 | H | Property Protection | Key West Engineering | \$10,000,000 | HMGP, BRIC, FMA | 2023 | Carried Forward | The City dropped the FEMA 361 aspect from the previous plan; Key West has applied for CDBG-DR, MIT-GI, & BRIC funding for the |
| 72 | Key West | Residential Floodproofing Program | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Property Protection | Key West Engineering | \$236,000 | HMGP, BRIC, FMA, CDBG-DR, | 2022 | Carried Forward | No progress has been made on this action to |
| 73 | Key West | Garrison Bright/Wahoo Pier Hardening | Tropical Cyclones, Tornado/Waterspout, Flood, Sea Level Rise, Severe Storms | 2.1 | H | Property Protection | Key West Ports | \$2,175,000 | HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT | 2022 | Carried Forward | Applying for Boat grant. |
| 74 | Key West | Elevation of Floodprone Residential Properties | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Property Protection | Key West Engineering | \$1,800,000 | HMGP, BRIC, FMA, CDBG-DR, HLMP | 2024 | Carried Forward | Received seagrant educational grant. |
| 75 | Key West | Shutter Bayview Park Scorebox | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 1.3 | H | Property Protection | Key West General Services/City Engineer | \$4,000 | HMGP, BRIC, HLMP | 2023 | Carried Forward | No progress has been made to date |
| 76 | Key West | Shutter Fire Station Museum: Install Dade county approved shutter system on structure. | Tropical Cyclones, Tornado/Waterspout, Severe Storms | 1.3 | H | Property Protection | Key West General Services/City Engineer | \$30,000 | HMGP, BRIC, HLMP | 2022 | Carried Forward | Work has not yet begun toward this action. |
| 77 | Key West | Shutter Park-n-Ride: Shutter the parking garage for storage of City Emergency vehicles and equipment; post disaster relief | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 1.3 | H | Property Protection | Key West General Services/City Engineer | \$250,000 | HMGP, BRIC, HLMP | 2024 | Carried Forward | No progress |
| 78 | Key West | Wind Retrofit of Homes: The City will manage a project to examine homes and provide recommendations to homeowners for wind retrofit and fund the structural retrofit. | Tropical Cyclones, Tornado/Waterspout, Severe Storms | 1.3 | H | Property Protection | Key West Information Technology Dept; General Services Department | \$100,000 | HMGP, BRIC, HLMP | 2023 | Carried Forward | Key West is working with the County's Weatherization Assistance Program (WAP); the City has no funding for this program at present. |
| 79 | Key West | 1010 Windsor Lane: Structural retrofitting of existing auditorium building | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 1.3 | H | Property Protection | St. Mary's Start of the Sea Parish | \$100,000 to \$500,000 | HMGP, BRIC, HLMP, CDBG-DR | 2024 | Carried Forward | No progress has been made. The City of Key West is following up |

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| 80 | Key West | Wind-Retrofit(s) of Historically and Culturally Significant Facilities | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 1.3 | H | Property Protection | Key West Engineering | \$4,500,000 | HMGP, PDM, HLMP, CDBG-DR, CDBG-MIT | 2023 | Carried Forward | Missed HLMP grant cycle, waiting for additional funding opportunities. |
| 81 | Key West | Wind-Retrofits of Public Service Facilities | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 3.2 | H | Property Protection | Key West Engineering | 3,500,000 | HMGP; BRIC; HLMP | 2021 | Carried Forward | Under FEMA Review |
| 82 | Key West | Affordable Rentals, Phase III; New construction of affordable housing units. This is a continuation of project funded under prior Unmet Needs Funding. New construction of 14 affordable rental unit | All | 1.3 | H | Property Protection | Monroe County Housing Authority | \$2,000,000 | BRIC, CDBG-DR, CDBG-MIT | 2024 | Carried Forward | No progress has been made on this action since 2015. At that time, permits and land |
| 83 | Key West | Elevation of Public Works Facility: Raise the Public Works Office, equipment storage, and repair facilities. Tow Structures. | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Property Protection | Key West General Services/City Engineer | \$373,000 | HMGP, BRIC, FMA, CDBG-MIT | | Carried Forward | The area is currently being redesigned. |
| 84 | Key West | United St./Jose Marti drainage improvements | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | M | Structural Projects | Key West General Services/City Engineer | \$2,300,000 | HGMP, BRIC, FMA, CDBG | 2022 | Carried Forward | In design phase |
| 85 | Key West | Force Main Relocation Project (Infrastructure Hardening) | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$2,330,000 | HMGP, BRIC, FMA | 2021 | Carried Forward | Received Contract for HMGP (also CDBG-DR1, DR2 & MIT-GI) |
| 86 | Key West | Outfall system for Dennis & Venetian (Drainage) | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$1,309,459 | HMGP, BRIC, FMA | 2021 | Carried Forward | In contracting process. |
| 87 | Key West | Staples Avenue exfiltration trench | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$638,471 | HMGP, BRIC, FMA | 2023 | Carried Forward | No progress has been made to date |
| 88 | Key West | Tide Valves and Outfall Improvements (Drainage) | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$4,658,082 | HMGP, BRIC, FMA | 2021 | Carried Forward | In design phase; also applied for CDBG-DR2 |
| 89 | Key West | Fogarty and 3rd Street Pump Station | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$6,800,000 | HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT | 2021 | Carried Forward | No word from grant applications yet; no progress has been made. |
| 90 | Key West | Harris and 10th street expanded project: installation of new outfall at Harris & 10th street with a pollution control box near the outfall to improve drainage in the low | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$5,625,000 | HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT | 2021 | Carried Forward | In contracting process. |

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| 91 | Key West | White and Petronia Street Gravity Well | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$450,000 | HMGP, BRIC, FMA, CDBG-DR, CDBG-MIT | 2021 | Carried Forward | Key West has applied for HMGP/CDBG-DR2 funding - waiting to |
| 92 | Key West | 3rd street Well or Exfirtraion Trench | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$396,316 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 93 | Key West | 4th street Well or Exfirtraion Trench | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$396,316 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 94 | Key West | Cindy & 19th Street Outfall | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$2,825,692 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 95 | Key West | Additional Well for Patricia/Ashby Pump Station | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$150,000 | HMGP; BRIC;FMA | 2023 | Carried Forward | Applied for FEMA Grant |
| 96 | Key West | Duck Avenue & 19th Street Gravity Well | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$530,577 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | Seeking HMGP funds |
| 97 | Key West | Eagle and 20th outfall | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$1,705,914 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 98 | Key West | Eagle Avenue Between 16th and 17th street trench | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$406,550 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 99 | Key West | Eisenhower Drive Twin 24" Pipeline | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$548,554 | BRIC, FMA, HMGP | 2023 | Carried Forward | No progress has been made to date |
| 100 | Key West | Flood Control Flagler Avenue: Install nine wells to intercept water from Flagler Avenue and put tide valves to stop storm | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West General Services/City Engineer | \$560,000 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | Tide valves only |
| 101 | Key West | Florida & Olivia Street Gravity Well | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West Utility | \$396,316 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |
| 102 | Key West | Olivia Street at Phalski & at Francis Gravity Well | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | 530577 | HMGP, BRIC, FMA, CDBG-MIT | 2022 | Carried Forward | No progress has been made to date |
| 103 | Key West | Packer Street at Olivia - trench and well | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West Utility | \$396,316 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | Carried Forward | No progress has been made to date |

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| 104 | Key West | Hazard Mitigation Community Revolving Loan Fund | All | 2.2 | H | Preventive and Regulatory | Key West Sustainability; Engineering Department | \$100,000 to \$500,000 | HLMP, BRIC, HMGP | 2023 | New | |
| 105 | Key West | Hazard Mitigation Policies Upgrade | All | 2.2 | H | Preventive and Regulatory | Key West Planning | Less than \$10,000 | Staff Time | 2021 | New | |
| 106 | Key West | Comprehensive Pervious Program to decrease runoff. Tie to vertical (cistern) | Flood | 1.3 | H | Natural Resource Protection | Key West: Engineering | \$10,000 to \$50,000 | FMA, BRIC, HMGP | 2022 | New | |
| 107 | Key West | Erosion Program, to track, disclose & utilize living shorelines when possible. | Coastal Erosion | 2.3 | H | Natural Resource Protection | Key West: Engineering | \$50,000 to \$100,000 | BRIC, HMGP | 2022 | New | |
| 108 | Key West | Living Shoreline Plan to protect our island from erosion. | Flood, Coastal Erosion | 2.3 | H | Natural Resource Protection | Key West: Engineering | \$50,000 to \$100,000 | HMGP, BRIC | 2022 | New | |
| 109 | Key West | Neighborhood Flood Protection Plan | Flood | 2.2 | H | Natural Resource Protection | Key West: Engineering | \$50,000 to \$100,000 | BRIC, HMPG | 2023 | New | |
| 110 | Key West | Water Supply Plan: Require high efficiency water fixtures | Drought | 2.2 | M | Preventive and Regulatory | Key West: Planning | \$50,000 to \$100,000 | HMGP, BRIC | 2021 | New | |
| 111 | Key West | Turf Replacement with Synthetic options | Drought | 1.3 | M | Preventive and Regulatory | Key West: Public Works | \$100,000 to \$500,000 | HMGP, BRIC, FMA | 2022 | New | |
| 112 | Key West | Assess vulnerability to Severe Wind | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 2.1 | H | Preventive and Regulatory | Key West: Engineering | Less than \$10,000 | Staff Time | 2022 | New | |
| 113 | Key West | CRS Group to work together on Beyond Minimum requirements | Tropical Cyclones, Severe Storms, Flood, Sea Level Rise | 2.2 | H | Preventive and Regulatory | County/Jurisdictional Floodplain Management | Less than \$10,000 | Staff Time | 2021 | New | |
| 114 | Key West | Research using New Town alleyways to protect powerlines or for stormwater | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 2.1 | M | Preventive and Regulatory | Key West: Engineering | Less than \$10,000 | Staff Time | 2022 | New | |
| 115 | Key West | Survey all City owned buildings for Wind/Flood resiliency needs | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 1.3 | H | Preventive and Regulatory | Key West: Engineering | \$10,000 to \$50,000 | Staff Time | 2022 | New | |

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| 116 | Key West | Enforce existing irrigation regulations (sensors, timing) | Drought | 2.1 | M | Preventive and Regulatory | Key West: Engineering | \$10,000 to \$50,000 | Staff Time | 2022 | New | |
| 117 | Key West | Feasibility study for greywater systems | Drought | 2.1 | M | Preventive and Regulatory | Key West: Engineering | \$10,000 to \$50,000 | BRIC | 2022 | New | |
| 118 | Key West | Feasibility Study for WWTP Potable Water Treatment | Drought | 2.1 | M | Preventive and Regulatory | Key West: Utilities | \$10,000 to \$50,000 | BRIC | 2022 | New | |
| 119 | Key West | Heat Island Program, to increase tree canopy, green/cool roofs & a community | Extreme Heat | 2.2 | H | Preventive and Regulatory | Key West: Engineering | \$10,000 to \$50,000 | BRIC, HMGP | 2023 | New | |
| 120 | Key West | Map first floor elevation for all buildings | Flood | 2.2 | M | Preventive and Regulatory | Key West: Floodplain | \$50,000 to \$100,000 | Staff Time | 2022 | New | |
| 121 | Key West | Map subsidence areas | Coastal Erosion | 2.2 | H | Preventive and Regulatory | Key West: Floodplain | \$50,000 to \$100,000 | Staff Time | 2021 | New | |
| 122 | Key West | Piling Replacement at KW Historic Seaport | Tropical Cyclones, Severe Storms | 2.1 | H | Property Protection | Key West: Ports | \$100,000 to \$500,000 | BRIC, FMA | 2021 | New | |
| 123 | Key West | Seawall Repair at KW Historic Seaport | Tropical Cyclones, Severe Storms | 1.3 | H | Property Protection | Key West: Ports | \$100,000 to \$500,000 | FMA, BRIC, HMGP | 2022 | New | |
| 124 | Key West | Structural Repairs at 201 William St Building | Tropical Cyclones, Severe Storms | 1.3 | H | Property Protection | Key West: Ports | \$100,000 to \$500,000 | HGMP, BRIC, CDBG-MIT | 2021 | New | |
| 125 | Key West | Tarpon Finger Pier Extensions | Tropical Cyclones, Severe Storms | 2.1 | H | Property Protection | Key West: Ports | \$100,000 to \$500,000 | HGMP, BRIC, CDBG-MIT | 2021 | New | |
| 126 | Key West | Greene Street Redevelopment | Tropical Cyclones, Severe Weather, Flood | 1.3 | H | Property Protection | Key West: Ports | \$100,000 to \$500,000 | HMGP, BRIC, HLMP | 2022 | New | |
| 127 | Key West | Expand Public Outreach: Mapping, outreach, floodproofing, windproofing, individual mitigation actions, disclosures, financing, etc. | All | 1.1 | H | Public Information and Outreach | Key West Sustainability; Engineering Department | \$10,000 to \$50,000 | Staff Time | 2022 | New | |
| 128 | Key West | Cohost Public Workshops with FIRM (NFIP, mitigation, etc) | Tropical Cyclones, Tornado/Waterspouts, Severe Storms | 1.1 | H | Public Information and Outreach | Key West: Floodplain | Less than \$10,000 | Staff Time | 2021 | New | |
| 129 | Key West | Track High Water Marks | Flood | 1.3 | M | Public Information and Outreach | Key West: Floodplain | Less than \$10,000 | Staff Time | 2021 | New | |

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| 130 | Key West | Educational material to share across websites | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 1.1 | H | Public Information and Outreach | All | Less than \$10,000 | Staff Time | 2022 | New | |
| 131 | Key West | King Tide Educational Map | Flood | 1.1 | H | Public Information and Outreach | Key West: Engineering | Less than \$10,000 | Staff Time | 2022 | New | |
| 132 | Key West | Minimum Recommended Residential Mitigations | Tropical Cyclones, Flood, Sea Level Rise | 1.1 | H | Public Information and Outreach | Key West: Engineering | Less than \$10,000 | Staff Time | 2022 | New | |
| 133 | Key West | Potable Water Treatment option for WWTP (Design and Build) | Drought | 2.1 | H | Structural Projects | Key West: Utilities | Over \$1,000,000 | BRIC, HMGP, CDBG-MIT | 2023 | New | |
| 134 | Key West | Poincianna Housing: affordable housing for Police Dept | All | 2.2 | H | Structural Projects | Key West: Engineering | \$500,000 to \$1,000,000 | BRIC, HMGP, EMPG | 2022 | New | |
| 135 | Key West | Cisterns for additional water supply during hurricanes | Drought, Tropical Cyclones, Severe Storms | 1.2 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | HMGP, BRIC | 2023 | New | |
| 136 | Key West | Replace Sludge Conveyor | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West: Utilities | \$50,000 to \$100,000 | BRIC, HMGP | 2023 | New | |
| 137 | Key West | Third Effluent Pump | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West: Utilities | \$100,000 to \$500,000 | HMGP, BRIC, CDBG-MIT | 2023 | New | |
| 138 | Key West | Community Services Building: Remodel to raise equipment and staff above flood. | Tropical Cyclones, Flood, Sea Level Rise | 1.3 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | HMGP, BRIC, FMA, CDBG-DR | 2022 | New | |
| 139 | Key West | Atlantic Ave Rebuild: Raise and Protect | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | HMGP, BRIC, FMA, CDBG-MIT | 2022 | New | |
| 140 | Key West | Diesel Plant: Design & Construction to stabilize building of historical and cultural significance | Tropical Cyclones, Flood Tornado/Waterspout, Severe Storms | 1.3 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | BRIC, CDBG-MIT, HMGP | 2022 | New | |
| 141 | Key West | Douglass Gym Expansion: Community Center | All | 1.3 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | BRIC, CDBG, HMGP | 2023 | New | |
| 142 | Key West | Duval Street Stormwater Revitalization: Raise road to reduce stormwater/SLR | Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West: Engineering | \$100,000 to \$500,000 | HMGP, BRIC, FMA, CDBG-MIT | 2022 | New | |

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| 143 | Key West | Elevate or Floodproof essential public buildings | Flood | 1.3 | H | Structural Projects | Key West: Engineering | Over \$1,000,000 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | New | |
| 144 | Key West | Elevate or Floodproof historically or culturally significant buildings | Flood | 1.3 | H | Structural Projects | Key West: Engineering | Over \$1,000,000 | HMGP, BRIC, FMA, CDBG-MIT | 2024 | New | |
| 145 | Key West | Govt Road Culverts | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West: Utilities | \$100,000 to \$500,000 | HMGP, BRIC, FMA, CDBG-MIT | 2023 | New | |
| 146 | Key West | KOTS: Construct/Develop new Keys Overnight Temporary Shelter for homeless | All | 1.2 | H | Structural Projects | Key West: Engineering | Over \$1,000,000 | HMGP, BRIC | 2022 | New | |
| 147 | Key West | Lift Station Renovation - Phases 1 and 2 | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Structural Projects | Key West: Utilities | \$500,000 to \$1,000,000 | HMGP, BRIC, CDBG-MIT, HLMP | 2021 | New | |
| 148 | Key West | Parking lot stormwater storage pilot | Flood | 1.3 | H | Structural Projects | Key West: Engineering | \$50,000 to \$100,000 | FMA, BRIC | 2022 | New | |
| 149 | Key West | Update Stormwater Master Plan | Flood | 2.2 | H | Structural Projects | Key West: Utilities | \$10,000 to \$50,000 | HMGP | 2021 | New | |
| 150 | Layton | Become Storm Ready Community | All | 1.2 | H | Emergency Services | Layton Building Department | Less than \$10,000 | Staff Time | 2021 | New | City has begun the progress with the National Weather Service |
| 151 | Layton | Add culverts to canals on the East side of the city to improve water flow and water quality | Flood, Tropical Cyclones, Drought, Sea Level Rise | 2.1 | M | Natural Resource Protection | Layton City Council & Building Department | \$100,000 to \$500,000 | HMGP, BRIC, FMA, CDBG-MIT | 5 years | New | Funding needed; have obtained proposal from engineering |
| 152 | Layton | Obtain LiDAR data to identify actual elevation of existing city roads and elevate as needed. | Tropical Cyclones, Flood, Sea Level Rise | 2.1 | H | Property protection | Layton City Council | \$100,000 to \$500,000 | CDBG-MIT | 5 years | New | Partnered with Mornoe County for CDBG-MIT funding |
| 153 | Layton | Partner with Monroe County Fire Rescue to rebuild fire house and administrative offices elevated or flood proofed above BFE plus minimum 3' freeboard. | Tropical Cyclones, Tornado/Waterspout, Severe Weather, Flood, Sea Level Rise | 2.1 | M | Property protection | Monroe County Fire Rescue; City of Layton | \$500,000 to \$1,000,000 | HMGP, BRIC, FMA | 5-7 years | New | Funding needed for long term plan; Monroe County purchased the adjacent parcel and Layton owns the firehouse, etc. A partnership is in process. |
| 154 | Marathon | City-wide communications network | All | 1.2 | M | Emergency Services | Marathon Fire Rescue; Marathon Administration | \$150,000 | BRIC | 2025 | Carried Forward | No progress has been made on this action to |
| 155 | Marathon | Hurricane Shelter: increase shelter spaces available during hurricane emergencies | Tropical Cyclones | 1.2 | M | Emergency Services | Monroe County School District | \$100,000 to \$500,000 | HMGP, BRIC | 2025 | Carried Forward | No progress has been made on this Maction |

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| 156 | Marathon | Critical Facility Hardening | All | 2.1 | H | Property Protection | Marathon Public Works | \$290,000 | HGMP, BRIC, CDBG-DR, CDBG-MIT | 2024 | Carried Forward | Partial Progress; fire station roof has been redone. Further hardening work |
| 157 | Marathon | Emergency Generators and Fuel Trailers for Critical Facilities | All | 1.3 | H | Property Protection | Marathon Public Works | \$175,000 | HMGP, BRIC | 2023 | Carried Forward | In contracting process. |
| 158 | Marathon | Marathon Coastal Hardening and Resiliency | Tropical Cyclones, Flood, Sea Level Rise, Coastal Erosion | 1.3 | H | Structural Projects | Marathon Public Works; Marathon Planning | \$1,200,000 | HMGP, BRIC, FMA | 2024 | Carried Forward | Under ENG Review |
| 159 | Marathon | Wastewater Treatment Facilities | All | 2.1 | H | Structural Projects | Marathon Utilities | \$3,155,528 | HMGP, BRIC, FMA | 2023 | Carried Forward | Under ENG Review |
| 160 | Key Colony Beach | Raise 4 wastewater lift station electrical control boxes to assure functionality after storms. Total of 15 lift stations for wastewater return system. Estimated cost to raise each control box is \$3,000 per box. cost to replace if damaged by | All | 2.1 | H | Property Protection | KCB Wastewater Utility; KCB Public Works | \$12,000 | HMGP | 2024 | New | |
| 161 | Key Colony Beach | Vehicle lifts for maintenance garage for mitigation in flooding conditions after a severe storm, includes maintenance vehicles and police vehicles. Requesting 3 lifts to support the current number of vehicles. Estimated cost of each lift \$5,000, estimate cost of replacement vehicle if | Tropical Cyclones, Flood, Sea Level Rise, Severe Storms | 1.2 | H | Property Protection | KCB Public Works; KCB Police Department | \$15,000 | HMGP | 2024 | New | |
| 162 | Key Colony Beach | Portable sump pump and hose system to move excess stormwater in isolated areas to | Tropical Cyclones, Flood, Sea Level Rise, Severe Storms | 1.2 | H | Property Protection | KCB Public Works | \$7,000 | HMGP | 2024 | New | |
| 163 | Key Colony Beach | Install rip-rap boulders to reduce/eliminate erosion from Atlantic Ocean in shoulder areas of Sunset Park, and Sadowski roadway, owned by City of Key Colony Beach | Coastal Erosion | 2.3 | M | Structural Projects | KCB Public Works | \$100,000 | HMGP | 2025 | New | |