

BFED Committee

From: Louise Batoon <Louise.Batoon@co.maui.hi.us>
Sent: Friday, April 19, 2024 2:57 PM
To: BFED Committee
Subject: Fwd: Infrastructure Project Sheets
Attachments: 2024-03-20_WestMauiInfrastureMatrix_v12.pdf; 2024-03-20_WestMauiInfrastureMatrix_v12_FY25.pdf; MauiDisaster_ProjectSheets_2024_0229.pdf

Aloha,

Please see attached subject documents.

Kindly reply to confirm receipt.

Mahalo,
Louise

Louise Batoon

Department of Management

County of Maui

808-270-7857

>>> Keanu LauHee 4/19/2024 2:49 PM >>>
Hi Louise,

Can you transmit the attached files to OCS?

Thanks!
Keanu

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Maui Disaster Funding Worksheet

Project Name	Project Description	County Dept.	Impact Justification	FY25			FY26			FY27		
				Design	Construction	Total	Design	Construction	Total	Design	Construction	Total
EMERGENCY MANAGEMENT												
Access Control	Access control in the restricted area	MEMA	<p>Access control is needed to ensure safe access and use for emergency responders, public, and contractors (vehicular and pedestrian traffic).</p> <p>This will ensure proper Public Health & Safety for Emergency Protective Measures under FEMA guidance (FEMA PAPPG Pg.110 II. A. Emergency Access) Public Assistance (PA) Eligible.</p>			\$ 20,000,000						
COUNTY OF MAUI INFRASTRUCTURE												
Traffic Signal Replacement	Traffic signal replacement at the intersection of Waiee and Papalaua Street	DPW	<p>The existing traffic signal was significantly damaged in the August wildfires. The remaining poles are structurally damaged due to the intense heat and wiring within the poles remaining have melted. The traffic signal replacement is necessary for traffic control, circulation, and public safety.</p> <p>Not eligible for Public Assistance (PA) Eligible because the project part of the federal-aid highway system.</p>	\$ 360,000	\$ 2,640,000	\$ 3,000,000						
Front Street Repairs	Miscellaneous repairs along Front Street including railings, sidewalks, signage, etc. in the fire impacted areas.	DPW	<p>Front Street repair work is necessary to restore conditions for the public (pedestrians, bicyclists, and motor vehicles) to travel safety.</p> <p>Not eligible for Public Assistance (PA) Eligible because the project part of the federal-aid highway system.</p>	\$ 600,000	\$ 4,400,000	\$ 5,000,000						
Roadway and Sidewalk Repairs and Verification of Survey Monuments	Repair and replace the existing roads (minor repairs) and sidewalks that were damaged and verification of all the survey monuments in the in fire impacted areas.	DPW	<p>This project is necessary to repair limited sections of the damaged roadways and sidewalks in the fire impacted areas safe for the traveling public to support the repopulation efforts. These roadway repairs are intended to be short-term as residents return to properties. The roadways will continue to be impacted with utility repairs and heavy construction vehicles. As utility trenching, debris removal, and rebuilding starts to be completed, it is anticipated that resurfacing and reconstruction will begin in FY27.</p> <p>In addition to the roadway resurfacing work, the survey monuments in the fire impacted areas have sustained damage and will need to be verified and/or replaced. The survey monuments are critical for establishing horizontal and vertical control and consistency with the Department of Interior and the United States Geological Survey. These controls are necessary to re-establish property lines within the fire impacted areas. The County needs to verify the existing and establish new survey monuments within the fire impacted areas to facilitate resurveying of affected roadway and private properties.</p> <p>Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 D. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).</p>	\$ 840,000	\$ 6,160,000	\$ 7,000,000	\$ 480,000	\$ 3,520,000	\$ 4,000,000			
Debris Removal	Debris removal within the public right of way, delinquent properties not participating in the USACE right-of-entry program, and the alternate debris program in the fire impacted areas.	DPW	<p>Fire debris is hazardous to both the public's health and the environment. This project is necessary to remove the debris in the public right-of-way and support for the alternate debris program. The USACE Phase II program will not remove all of the debris in the fire impacted areas. The funding will support continuous debris removal in the public right-of-way and delinquent properties not participating in the USACE right-of-entry program to maintain a safe environment in the fire impacted areas.</p>			\$ 2,000,000			\$ 7,500,000			
Roadway Connectivity for Disaster Evacuation	Enhance the existing roadways to provide for integrated connectivity for fire and disaster evacuation.	DPW	<p>Maui County Fire Department has reviewed the wildfire impact zone and have determined some streets need to be improved or connected to facilitate public safety in the future. USACE has also conducted a LifeSim model to review existing conditions and evacuation strategies and determine their effectiveness. The outcome of both efforts is the identification of locations where streets do not meet the current fire codes, where cul-de-sacs are substandard, and where connections are needed to improve connectivity and evacuation routes. This project is necessary to identify key improvements within the fire impacted areas to support disaster evacuation.</p> <p>Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.</p>	\$ 1,440,000	\$ 10,560,000	\$ 12,000,000	\$ 1,200,000	\$ 8,800,000	\$ 10,000,000			
Roadway Connectivity for Disaster Evacuation (Land Acquisition)	Land acquisition necessary for roadway connectivity, road widening, and evacuation routes in the fire impacted areas.	DPW	<p>This project is necessary for the right-of-way acquisition of land to help bring the fire impacted area up to current fire code.</p> <p>Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.</p>			\$ 8,000,000						
Road Resurfacing/Reconstruction	Repair or reconstruction of existing roadways that are damaged due to the wildfires and/or debris removal operations.	DPW	<p>Within FY25 to FY27, the streets will be cut and trenched for the repair and replacement of water lines, wastewater lines, and storm drainage. The funding in FY27 is for a minimum 2" overlay over all the streets in the fire impacted areas, after all the underground work has been completed. There will be additional costs in FY28 and beyond for the reconstruction efforts.</p> <p>Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 A. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)</p>						\$ 3,000,000	\$ 22,000,000	\$ 25,000,000	

Maui Disaster Funding Worksheet

Project Name	Project Description	County Dept.	Impact Justification	FY25			FY26			FY27		
				Design	Construction	Total	Design	Construction	Total	Design	Construction	Total
Storm Drainage, Flood Control, and Water Quality Improvements	Repair existing storm drainage in the fire impacted areas and implement green infrastructure and flood control improvements to current standards.	DPW	This project is necessary to repair damaged and substandard storm drainage and install best management practices (BMP) to prevent sediment and contaminants from entering into the storm drainage system and flowing into the ocean. The project will also bring portions of the current storm drainage system to current standards and include improvements to address flood control requirements. If the storm drainage improvements are not installed, low lying areas will be subject to flooding and contaminants from the roadway may drain out into the ocean and impact our natural resources. USEPA is currently tasked with updating the Lahaina Town Drainage Master plan to include green infrastructure. This request is to help implement the portions of the plan that can be expedited to support repopulation and public safety and can be used to acquire land within the FEMA flood zones. The overall cost of the plan is expected to be over \$60 million. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 170 B. Category D - Water Control Facilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)	\$ 960,000	\$ 7,040,000	\$ 8,000,000						
Emergency Permitting	Expedited services for emergency permitting within the fire impacted areas to support repopulation.	DPW	In order to support repopulation in the fire impacted areas, the DPW is establishing a special permitting office in West Maui. The County will establish an expedited permitting process for the fire victims. Annual funding will support, but not fully over the anticipated \$6 M/year cost. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope. May be applicable to Disaster Recover Reform Act 2018 (DRRA) Section 1206. https://www.fema.gov/assistance/public/policy-guidance-fact-sheets/section-1206-building-code-and-floodplain-management-administration .			\$ 2,500,000			\$ 2,500,000			\$ 2,500,000
Water Supply Infrastructure Repairs and Replacements	Repairs and replacement of existing water mains, service laterals, and meters to residences in the fire impacted areas. Project will allow property owners to rebuild within the wildfire impacted area.	DWS	The initial requests for funding will allow DWS to prioritize the repairs and replacement of existing water mains in the fire impacted areas to support the repopulation efforts. In addition, approximately 2000 water service laterals and meters to residential properties will be need to be replaced and installed prior to residents rebuilding within the wildfire impacted area. Repairs and replacement work will continue beyond FY27. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)	\$ 1,200,000	\$ 8,800,000	\$ 10,000,000	\$ 2,400,000	\$ 17,600,000	\$ 20,000,000			
Fire Flow Improvements to Water System	Provide improvements and additional fire hydrants to the existing water supply system to meet current fire flow standards.	DWS	The proposed water system infrastructure upgrade improvements for Lahaina provide three essential benefits for the area, 1) ensures that the water system meets current department standards for domestic, irrigation, and fire protection usage, 2) strengthens system reliability and operational capacity, and 3) allows for expansion of the system for future development. The lack of proper fire protection measures poses a serious fire and life safety threat. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.	\$ 1,200,000	\$ 8,800,000	\$ 10,000,000						
Honokowai to Wahikuli Water Line Extension	Water line extension to provide added resiliency and redundancy within the water system to provide fire support needs.	DWS	This water line extension will balance the flow capacity between the northern and southern systems within the fire impacted areas. The water main extension will provide much needed resiliency and redundancy within the water system to provide fire support. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.				\$ 2,400,000	\$ 17,600,000	\$ 20,000,000			
Permanent Disposal Site	Design and construction of a permanent disposal site and offsite improvements to dispose of the debris from the fire impacted areas. (Note: existing landfill space is not sufficient to accommodate the volume of debris associated with the wildfire debris generated during cleanup).	DEM	The permanent disposal site is necessary for the completion of all the debris removal in the fire impacted area. Property owners that opt-out of the government funded program and the County have no place to put the debris from the fire impacted area. The design and construction of the final disposal site is necessary for reconstruction and repopulation in the burned zones. Leaving the debris in place is not safe and can be an environmental and health hazard to the community. Ineligible for Public Assistance (PA) Funding - (FEMA PAPPG pg. 114 F. Increased Operating Cost.)	\$ 4,560,000	\$ 33,440,000	\$ 38,000,000						
Pump Station temporary repairs	Temporary repairs of existing sewer pumps stations that were damaged in the fire impacted areas to maintain continuity of operations.	DEM	The existing pump stations were damaged in the August Maui wildfires. If repairs to the pump stations do not occur, the wastewater system is susceptible to wastewater spills and lack of service to the fire impacted areas. The wastewater spills would not be good for the environment and the County would be subject to fines by the EPA and Dept. of Health for violations, if the spills were to occur. In addition, the pump stations are integral to each other and need to work together for the wastewater system to work. These immediate repairs will help to support repopulation efforts in FY25. Eligible for Public Assistance (PA) if it is a temporary measure. If the repairs fix the issue, it is permanent work which is also PA eligible. (FEMA PAPPG Pg. 135 X. Emergency Repair or Stabilization Emergency repair or stabilization of an eligible facility is eligible as Emergency Work if it eliminates or lessens an immediate threat. Work performed under an exigent circumstance that restores the pre-disaster design and function of the facility in accordance with codes and standards is Permanent Work, not Emergency Work.)	\$ 600,000	\$ 4,400,000	\$ 5,000,000						
Wastewater Collection System repairs	Repair and replacement of sewer pipelines that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation and protects the nearshore environment and the wastewater treatment plant by preventing saltwater from entering the treatment system.	DEM	The existing wastewater system is compromised with inflow and infiltration, which is likely due to damage from the August wildfires. The infiltration of both fresh water and salt water continues to exacerbate the lower influent carbon challenge at the Lahaina WWTP. The wastewater collection system in West Maui is a total of 113,000 linear feet with some sections over 50 years old. The repairs and replacement of damaged and substandard pipe is necessary for the repopulation within the fire impacted areas and for the Lahaina WWTP to function again. The damage is currently being accessed with CCTV by the EPA. It is estimated that the approximate cost of to replace damaged and substandard sections of the system could be \$109 M. The cost of repair and replacement will extend beyond FY27. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities).	\$ 1,320,000	\$ 9,680,000	\$ 11,000,000	\$ 2,400,000	\$ 17,600,000	\$ 20,000,000	\$ 600,000	\$ 4,400,000	\$ 5,000,000

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Project Name	Project Description	County Dept.	Impact Justification	FY25			FY26			FY27					
				Design	Construction	Total	Design	Construction	Total	Design	Construction	Total			
Wastewater Collection System Laterals and Cleanouts	Repair and replacement of sewer laterals and cleanouts that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation.	DEM	The majority of the properties in the fire impacted area did not meet current standards with a sanitary sewer cleanout primarily due to the age of the lots. This project is necessary to install approximately 2000 sewer laterals and cleanouts to properties within the fire impacted area and directly support the repopulation of the area. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).			\$ 9,000,000									
Pump Station Replacement	Permanent repairs to current standards for existing sewer pump stations in the fire impacted areas. Total pump stations within the fire impacted areas are 5.	DEM	While the immediate repairs to the pump stations are necessary in FY25, the full replacement of Pump Station No. 5 and Pump Station No. 6 are necessary due to the fire damage sustained. Pump Stations No. 3, No. 4, and No. 7 sustained fire and wind damage that needs to be repaired, but they do not need replacement. During the replacement of the pump stations, temporary pumping will be necessary. The cost of the pump stations replacement includes the cost of temporary bypass pumping. The pump stations repair and replacements are necessary for the entire wastewater collection system to function as repopulation occurs. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities) FEMA Replacement Rule "50% Rule" - (PAPPG Pg. 157 V. Repair vs. Replacement).				\$ 3,060,000	\$ 22,440,000	\$ 25,500,000						
Wahikuli Sewer Installation	Install a new sewer system in the Wahikuli area to meet current EPA and Department of Health standards. System will tie into the existing collection system where wastewater will be pumped to the existing treatment plant.	DEM	Pre-fire, the Wahikuli properties used their existing cesspool systems because there was no wastewater collection system in the area. Currently, the installation of cesspools is illegal. The Dept. of Health will allow the existing residents to reconnect to the cesspools on a temporary basis, if there is no increase to the previous bedroom count. The County will need to design and construct a new wastewater system in the Wahikuli area to be compliant with current EPA and Dept. of Health standards and connect that system to the existing WWTP. The current area's cesspools are not safe for long-term public and environmental health. The installation of a wastewater collection system is necessary to comply with EPA and Dept. of Health requirements and would allow residents to build back with higher densities and increased bedrooms, which provides additional housing in the West Maui area. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.				\$ 3,480,000	\$ 25,520,000	\$ 29,000,000						
Kahului WWTP 4th Aeration Basin	Increase wastewater treatment capacity necessary to support temporary and permanent housing.	DEM	The current Kahului WWTP is at capacity. The completion of the temporary fourth aeration basin will allow for necessary capacity in the Central Maui area for temporary and permanent housing while the Central Maui Wastewater Treatment plant is undergoing the environmental clearance, design, and construction. Likely not eligible. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.	\$ 1,800,000	\$ 13,200,000	\$ 15,000,000									
Lahaina WWTP Upgrade	Provide added capacity to the existing Lahaina WWTP to meet demand generated by temporary and permanent housing.	DEM	The Lahaina WWTP is also near capacity. The plant needs additional capacity and to be brought up to current standards to support temporary and permanent housing. In order to increase capacity, the discharge also needed to be increased, however the DOH NPDES permit limits the discharge at this facility. This project goes hand in hand with the West Maui Recycled Water System. The extra discharge will go to the West Maui Recycled Water System. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.				\$ 1,140,000	\$ 8,360,000	\$ 9,500,000						
West Maui Recycled Water System	Provide added capacity to the existing West Maui Recycled Water System to meet and support temporary and permanent housing.	DEM	The expansion of the West Maui Recycled Water system is necessary as the Lahaina WWTP's capacity expands. The Lahaina WWTP's discharge is limited by a Dept. of Health NPDES permit. The expansion of the West Maui Recycled Water system will be able to convert the discharge from the Lahaina WWTP to R1 water. The benefits are twofold because the R1 water can be used as irrigation, saving the limited water supply in West Maui for domestic use. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.				\$ 1,380,000	\$ 10,120,000	\$ 11,500,000						
Infrastructure Total for FY25, FY26, FY27				\$337,500,000.00			FY25			FY26			FY27		
				\$ 145,500,000			\$ 159,500,000			\$ 32,500,000					
County (10%)				\$33,750,000.00			County (10%) \$ 14,550,000			County (10%) \$ 15,950,000			County (10%) \$ 3,250,000		
State (90%) Funding Request for Infrastructure				\$303,750,000.00			State (90%) \$ 130,950,000			State (90%) \$ 143,550,000			State (90%) \$ 29,250,000		
Emergency Management Funding Request							\$ 20,000,000								
TOTAL STATE FUNDING REQUEST				\$323,750,000.00			\$ 150,950,000			\$ 143,550,000			\$ 29,250,000		

Maui Disaster Funding Worksheet

Project Name	Project Description	County Dept.	Impact Justification	FY25		
				Design	Construction	Total
EMERGENCY MANAGEMENT						
Access Control	Access control in the restricted area	MEMA	Access control is needed to ensure safe access and use for emergency responders, public, and contractors (vehicular and pedestrian traffic). This will ensure proper Public Health & Safety for Emergency Protective Measures under FEMA guidance (FEMA PAPPG Pg.110 II. A. Emergency Access) Public Assistance (PA) Eligible.			\$ 20,000,000
COUNTY OF MAUI INFRASTRUCTURE						
Traffic Signal Replacement	Traffic signal replacement at the intersection of Wainee and Papalaua Street	DPW	The existing traffic signal was significantly damaged in the August wildfires. The remaining poles are structurally damaged due to the intense heat and wiring within the poles remaining have melted. The traffic signal replacement is necessary for traffic control, circulation, and public safety. Not eligible for Public Assistance (PA) Eligible because the project part of the federal-aid highway system.	\$ 360,000	\$ 2,640,000	\$ 3,000,000
Front Street Repairs	Miscellaneous repairs along Front Street including railings, sidewalks, signage, etc. in the fire impacted areas.	DPW	Front Street repair work is necessary to restore conditions for the public (pedestrians, bicyclists, and motor vehicles) to travel safety. Not eligible for Public Assistance (PA) Eligible because the project part of the federal-aid highway system.	\$ 600,000	\$ 4,400,000	\$ 5,000,000
Roadway and Sidewalk Repairs and Verification of Survey Monuments	Repair and replace the existing roads (minor repairs) and sidewalks that were damaged and verification of all the survey monuments in the fire impacted areas.	DPW	This project is necessary to repair limited sections of the damaged roadways and sidewalks in the fire impacted areas safe for the traveling public to support the repopulation efforts. These roadway repairs are intended to be short-term as residents return to properties. The roadways will continue to be impacted with utility repairs and heavy construction vehicles. As utility trenching, debris removal, and rebuilding starts to be completed, it is anticipated that resurfacing and reconstruction will begin in FY27. In addition to the roadway resurfacing work, the survey monuments in the fire impacted areas have sustained damage and will need to be verified and/or replaced. The survey monuments are critical for establishing horizontal and vertical control and consistency with the Department of Interior and the United States Geological Survey. These controls are necessary to re-establish property lines within the fire impacted areas. The County needs to verify the existing and establish new survey monuments within the fire impacted areas to facilitate resurveying of affected roadway and private properties. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 D. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).	\$ 840,000	\$ 6,160,000	\$ 7,000,000
Debris Removal	Debris removal within the public right of way, delinquent properties not participating in the USACE right-of-entry program, and the alternate debris program in the fire impacted areas.	DPW	Fire debris is hazardous to both the public's health and the environment. This project is necessary to remove the debris in the public right-of-way and support for the alternate debris program. The USACE Phase II program will not remove all of the debris in the fire impacted areas. The funding will support continuous debris removal in the public right-of-way and delinquent properties not participating in the USACE right-of-entry program to maintain a safe environment in the fire impacted areas.			\$ 2,000,000
Roadway Connectivity for Disaster Evacuation	Enhance the existing roadways to provide for integrated connectivity for fire and disaster evacuation.	DPW	Maui County Fire Department has reviewed the wildfire impact zone and have determined some streets need to be improved or connected to facilitate public safety in the future. USACE has also conducted a LifeSim model to review existing conditions and evacuation strategies and determine their effectiveness. The outcome of both efforts is the identification of locations where streets do not meet the current fire codes, where cul-de-sacs are substandard, and where connections are needed to improve connectivity and evacuation routes. This project is necessary to identify key improvements within the fire impacted areas to support disaster evacuation. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.	\$ 1,440,000	\$ 10,560,000	\$ 12,000,000
Roadway Connectivity for Disaster Evacuation (Land Acquisition)	Land acquisition necessary for roadway connectivity, road widening, and evacuation routes in the fire impacted areas.	DPW	This project is necessary for the right-of-way acquisition of land to help bring the fire impacted area up to current fire code. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.			\$ 8,000,000
Road Resurfacing/Reconstruction	Repair or reconstruction of existing roadways that are damaged due to the wildfires and/or debris removal operations.	DPW	Within FY25 to FY27, the streets will be cut and trenched for the repair and replacement of water lines, wastewater lines, and storm drainage. The funding in FY27 is for a minimum 2" overlay over all the streets in the fire impacted areas, after all the underground work has been completed. There will be additional costs in FY28 and beyond for the reconstruction efforts. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 A. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)			
Storm Drainage, Flood Control, and Water Quality Improvements	Repair existing storm drainage in the fire impacted areas and implement green infrastructure and flood control improvements to current standards.	DPW	This project is necessary to repair damaged and substandard storm drainage and install best management practices (BMP) to prevent sediment and contaminants from entering into the storm drainage system and flowing into the ocean. The project will also bring portions of the current storm drainage system to current standards and include improvements to address flood control requirements. If the storm drainage improvements are not installed, low lying areas will be subject to flooding and contaminants from the roadway may drain out into the ocean and impact our natural resources. USEPA is currently tasked with updating the Lahaina Town Drainage Master plan to include green infrastructure. This request is to help implement the portions of the plan that can be expedited to support repopulation and public safety and can be used to acquire land within the FEMA flood zones. The overall cost of the plan is expected to be over \$60 million. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 170 B. Category D - Water Control Facilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)	\$ 960,000	\$ 7,040,000	\$ 8,000,000
Emergency Permitting	Expedited services for emergency permitting within the fire impacted areas to support repopulation.	DPW	In order to support repopulation in the fire impacted areas, the DPW is establishing a special permitting office in West Maui. The County will establish an expedited permitting process for the fire victims. Annual funding will support, but not fully over the anticipated \$6 M/year cost. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope. May be applicable to Disaster Recover Reform Act 2018 (DRRA) Section 1206. https://www.fema.gov/assistance/public/policy-guidance-fact-sheets/section-1206-building-code-and-floodplain-management-administration .			\$ 2,500,000
Water Supply Infrastructure Repairs and Replacements	Repairs and replacement of existing water mains, service laterals, and meters to residences in the fire impacted areas. Project will allow property owners to rebuild within the wildfire impacted area.	DWS	The initial requests for funding will allow DWS to prioritize the repairs and replacement of existing water mains in the fire impacted areas to support the repopulation efforts. In addition, approximately 2000 water service laterals and meters to residential properties will be need to be replaced and installed prior to residents rebuilding within the wildfire impacted area. Repairs and replacement work will continue beyond FY27. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)	\$ 1,200,000	\$ 8,800,000	\$ 10,000,000
Fire Flow Improvements to Water System	Provide improvements and additional fire hydrants to the existing water supply system to meet current fire flow standards.	DWS	The proposed water system infrastructure upgrade improvements for Lahaina provide three essential benefits for the area, 1) ensures that the water system meets current department standards for domestic, irrigation, and fire protection usage, 2) strengthens system reliability and operational capacity, and 3) allows for expansion of the system for future development. The lack of proper fire protection measures poses a serious fire and life safety threat. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.	\$ 1,200,000	\$ 8,800,000	\$ 10,000,000
Honokowai to Wahikuli Water Line Extension	Water line extension to provide added resiliency and redundancy within the water system to provide fire support needs.	DWS	This water line extension will balance the flow capacity between the northern and southern systems within the fire impacted areas. The water main extension will provide much needed resiliency and redundancy within the water system to provide fire support. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.			
Permanent Disposal Site	Design and construction of a permanent disposal site and offsite improvements to dispose of the debris from the fire impacted areas. (Note: existing landfill space is not sufficient to accommodate the volume of debris associated with the wildfire debris generated during cleanup).	DEM	The permanent disposal site is necessary for the completion of all the debris removal in the fire impacted area. Property owners that opt-out of the government funded program and the County have no place to put the debris from the fire impacted area. The design and construction of the final disposal site is necessary for reconstruction and repopulation in the burned zones. Leaving the debris in place is not safe and can be an environmental and health hazard to the community. Ineligible for Public Assistance (PA) Funding - (FEMA PAPPG pg. 114 F. Increased Operating Cost.)	\$ 4,560,000	\$ 33,440,000	\$ 38,000,000

Maui Disaster Funding Worksheet

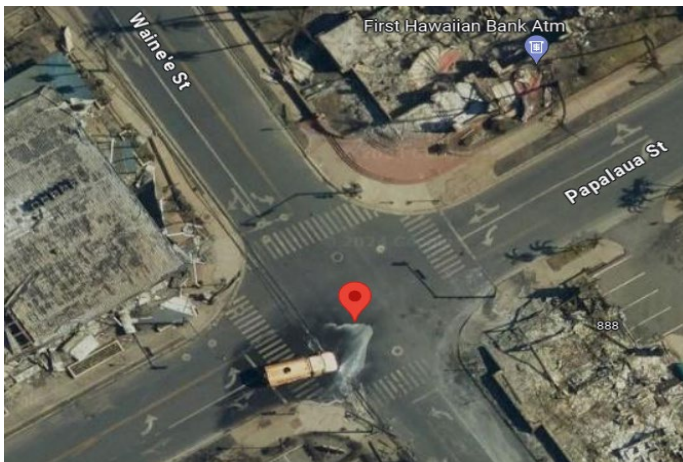
Project Name	Project Description	County Dept.	Impact Justification	FY25		
				Design	Construction	Total
Pump Station temporary repairs	Temporary repairs of existing sewer pumps stations that were damaged in the fire impacted areas to maintain continuity of operations.	DEM	The existing pump stations were damaged in the August Maui wildfires. If repairs to the pump stations do not occur, the wastewater system is susceptible to wastewater spills and lack of service to the fire impacted areas. The wastewater spills would not be good for the environment and the County would be subject to fines by the EPA and Dept. of Health for violations, if the spills were to occur. In addition, the pump stations are integral to each other and need to work together for the wastewater system to work. These immediate repairs will help to support repopulation efforts in FY25. Eligible for Public Assistance (PA) if it is a temporary measure. If the repairs fix the issue, it is permanent work which is also PA eligible. (FEMA PAPPG Pg. 135 X. Emergency Repair or Stabilization Emergency repair or stabilization of an eligible facility is eligible as Emergency Work if it eliminates or lessens an immediate threat. Work performed under an exigent circumstance that restores the pre-disaster design and function of the facility in accordance with codes and standards is Permanent Work, not Emergency Work.)	\$ 600,000	\$ 4,400,000	\$ 5,000,000
Wastewater Collection System repairs	Repair and replacement of sewer pipelines that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation and protects the nearshore environment and the wastewater treatment plant by preventing saltwater from entering the treatment system.	DEM	The existing wastewater system is compromised with inflow and infiltration, which is likely due to damage from the August wildfires. The infiltration of both fresh water and salt water continues to exacerbate the lower influent carbon challenge at the Lahaina WWTP. The wastewater collection system in West Maui is a total of 113,000 linear feet with some sections over 50 years old. The repairs and replacement of damaged and substandard pipe is necessary for the repopulation within the fire impacted areas and for the Lahaina WWTP to function again. The damage is currently being accessed with CCTV by the EPA. It is estimated that the approximate cost of to replace damaged and substandard sections of the system could be \$109 M. The cost of repair and replacement will extend beyond FY27. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities).	\$ 1,320,000	\$ 9,680,000	\$ 11,000,000
Wastewater Collection System Laterals and Cleanouts	Repair and replacement of sewer laterals and cleanouts that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation.	DEM	The majority of the properties in the fire impacted area did not meet current standards with a sanitary sewer cleanout primarily due to the age of the lots. This project is necessary to install approximately 2000 sewer laterals and cleanouts to properties within the fire impacted area and directly support the repopulation of the area. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).			\$ 9,000,000
Pump Station Replacement	Permanent repairs to current standards for existing sewer pump stations in the fire impacted areas. Total pump stations within the fire impacted areas are 5.	DEM	While the immediate repairs to the pump stations are necessary in FY25, the full replacement of Pump Station No. 5 and Pump Station No. 6 are necessary due to the fire damage sustained. Pump Stations No. 3, No. 4, and No. 7 sustained fire and wind damage that needs to be repaired, but they do not need replacement. During the replacement of the pump stations, temporary pumping will be necessary. The cost of the pump stations replacement includes the cost of temporary bypass pumping. The pump stations repair and replacements are necessary for the entire wastewater collection system to function as repopulation occurs. Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities) FEMA Replacement Rule "50% Rule" - (PAPPG Pg. 157 V. Repair vs. Replacement).			
Wahikuli Sewer Installation	Install a new sewer system in the Wahikuli area to meet current EPA and Department of Health standards. System will tie into the existing collection system where wastewater will be pumped to the existing treatment plant.	DEM	Pre-fire, the Wahikuli properties used their existing cesspool systems because there was no wastewater collection system in the area. Currently, the installation of cesspools is illegal. The Dept. of Health will allow the existing residents to reconnect to the cesspools on a temporary basis, if there is no increase to the previous bedroom count. The County will need to design and construct a new wastewater system in the Wahikuli area to be compliant with current EPA and Dept. of Health standards and connect that system to the existing WWTP. The current area's cesspools are not safe for long-term public and environmental health. The installation of a wastewater collection system is necessary to comply with EPA and Dept. of Health requirements and would allow residents to build back with higher densities and increased bedrooms, which provides additional housing in the West Maui area. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.			
Kahului WWTP 4th Aeration Basin	Increase wastewater treatment capacity necessary to support temporary and permanent housing.	DEM	The current Kahului WWTP is at capacity. The completion of the temporary fourth aeration basin will allow for necessary capacity in the Central Maui area for temporary and permanent housing while the Central Maui Wastewater Treatment plant is undergoing the environmental clearance, design, and construction. Likely not eligible. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.	\$ 1,800,000	\$ 13,200,000	\$ 15,000,000
Lahaina WWTP Upgrade	Provide added capacity to the existing Lahaina WWTP to meet demand generated by temporary and permanent housing.	DEM	The Lahaina WWTP is also near capacity. The plant needs additional capacity and to be brought up to current standards to support temporary and permanent housing. In order to increase capacity, the discharge also needed to be increased, however the DOH NPDES permit limits the discharge at this facility. This project goes hand in hand with the West Maui Recycled Water System. The extra discharge will go to the West Maui Recycled Water System. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.			
West Maui Recycled Water System	Provide added capacity to the existing West Maui Recycled Water System to meet and support temporary and permanent housing.	DEM	The expansion of the West Maui Recycled Water system is necessary as the Lahaina WWTP's capacity expands. The Lahaina WWTP's discharge is limited by a Dept. of Health NPDES permit. The expansion of the West Maui Recycled Water system will be able to convert the discharge from the Lahaina WWTP to R1 water. The benefits are twofold because the R1 water can be used as irrigation, saving the limited water supply in West Maui for domestic use. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.			
Infrastructure Total for FY25, FY26, FY27				\$337,500,000.00		
County (10%)				\$33,750,000.00		
State (90%) Funding Request for Infrastructure				\$303,750,000.00		
Emergency Management Funding Request				\$ 20,000,000		
TOTAL STATE FUNDING REQUEST				\$ 150,950,000		

Maui Wildfire Disaster Recovery

Project Name: Traffic Signal Replacement
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Traffic Signal at the Intersection of Wainee and Papalaua Streets



Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025			
3,000,000			3,000,000

PROJECT DESCRIPTION

Traffic signal replacement at the intersection of Wainee Street and Papalaua Street.

IMPACT JUSTIFICATION

The existing traffic signal was significantly damaged in the August wildfires. The remaining poles are structurally damaged due to the intense heat and wiring within the poles remaining have melted. The traffic signal replacement is necessary for traffic control, circulation, and public safety.

Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 A. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 6 to 8 months.

Maui Wildfire Disaster Recovery

Project Name: Front Street Repairs
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
5,000,000			5,000,000

PROJECT DESCRIPTION

Miscellaneous repairs along Front Street including railings, sidewalks, signage, etc. in the fire impacted areas.

IMPACT JUSTIFICATION

Front Street repair work is necessary to restore conditions for the public (pedestrians, bicyclists, and motor vehicles) to travel safety.

Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 A. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).

ESTIMATED CONSTRUCTION DURATION

The estimated construction period is 8 to 12 months.

Maui Wildfire Disaster Recovery

Project Name: Road and Sidewalk Repairs and Verification of Survey Monuments
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025	7,000,000	4,000,000	11,000,000

PROJECT DESCRIPTION

Repair and replace the existing roads (minor repairs) and sidewalks that were damaged and verification of all the survey monuments in the in fire impacted areas.

IMPACT JUSTIFICATION

This project is necessary to repair limited sections of the damaged roadways and sidewalks in the fire impacted areas safe for the traveling public to support the repopulation efforts. These roadway repairs are intended to be short-term as residents return to properties. The roadways will continue to be impacted with utility repairs and heavy construction vehicles. As utility trenching, debris removal, and rebuilding starts to be completed, it is anticipated that resurfacing and reconstruction will begin in FY27.

In addition to the roadway resurfacing work, the survey monuments in the fire impacted areas have sustained damage and will need to be verified and/or replaced. The survey monuments are critical for establishing horizontal and vertical control and consistency with the Department of Interior and the United States Geological Survey. These controls are necessary to re-establish property lines within the fire impacted areas. The County needs to verify the existing and establish new survey monuments within the fire impacted areas to facilitate resurveying of affected roadway and private properties.

Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 168 D. Category C - Roads & Bridges). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 20 to 24 months.

Maui Wildfire Disaster Recovery

Project Name: Debris Removal
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025	2,000,000	7,500,000	9,500,000

PROJECT DESCRIPTION

Debris removal within the public right of way, delinquent properties not participating in the USACE right-of-entry program, and the alternate debris program in the fire impacted areas.

IMPACT JUSTIFICATION

Fire debris is hazardous to both the public's health and the environment. This project is necessary to remove the debris in the public right-of-way and support for the alternate debris program. The USACE Phase II program will not remove all of the debris in the fire impacted areas. The funding will support continuous debris removal in the public right-of-way and delinquent properties not participating in the USACE right-of-entry program to maintain a safe environment in the fire impacted areas.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 28 months.

Maui Wildfire Disaster Recovery

Project Name: Roadway Connectivity for Disaster Evacuation
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Red on the maps indicate areas of road connectivity improvements

Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025			
12,000,000	10,000,000		22,000,000

PROJECT DESCRIPTION

Enhance the existing roadways to provide for integrated connectivity for fire and disaster evacuation.

IMPACT JUSTIFICATION

Maui County Fire Department has reviewed the wildfire impact zone and have determined some streets need to be improved or connected to facilitate public safety in the future. USACE has also conducted a LifeSim model to review existing conditions and evacuation strategies and determine their effectiveness. The outcome of both efforts is the identification of locations where streets do not meet the current fire codes, where cul-de-sacs are substandard, and where connections are needed to improve connectivity and evacuation routes. This project is necessary to identify key improvements within the fire impacted areas to support disaster evacuation.

Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 30 months.

Maui Wildfire Disaster Recovery

Project Name: Roadway Connectivity for Disaster Evacuation (Land Acquisition)
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Red on the map indicates areas of road connectivity improvements

Request	Subsequent Years		Total
	FY 2025	FY 2026	
8,000,000			8,000,000

PROJECT DESCRIPTION

Land acquisition necessary for roadway connectivity, road widening, and evacuation routes in the fire impacted areas.

IMPACT JUSTIFICATION

This project is necessary for the right-of-way acquisition of land to help bring the fire impacted area up to current fire code. Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.

ESTIMATED DURATION

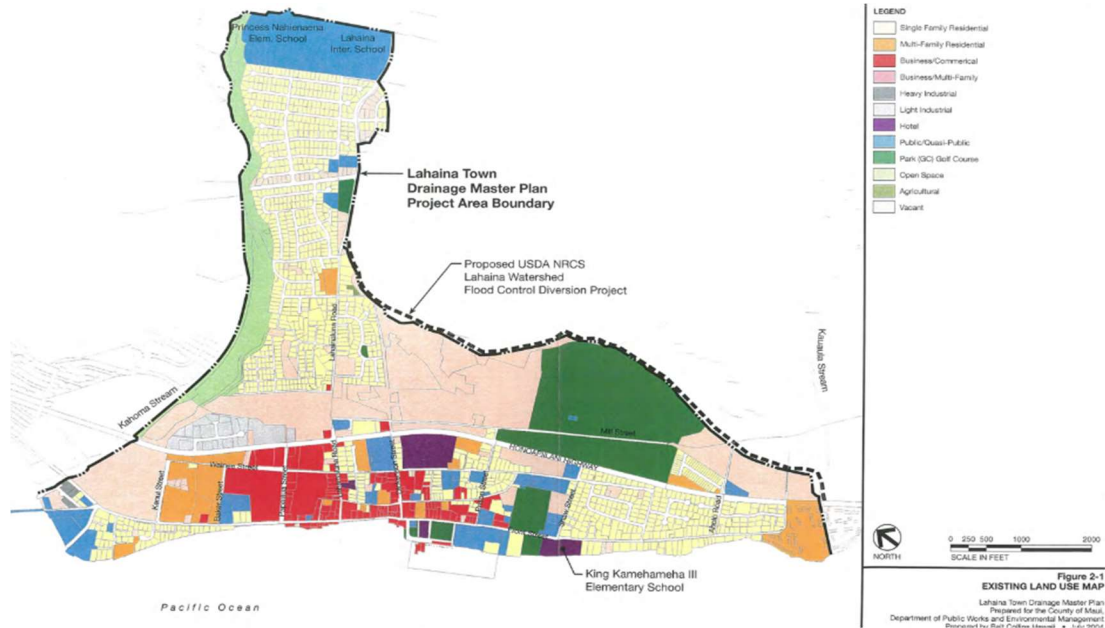
The estimated duration to acquire the land is 12 to 18 months.

Maui Wildfire Disaster Recovery

Project Name: Storm Drainage, Flood Control, and Water Quality Improvements
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



Lahaina Drainage Master Plan



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
8,000,000			8,000,000

PROJECT DESCRIPTION

Repair existing storm drainage in the fire impacted areas and implement green infrastructure and flood control improvements to current standards.

IMPACT JUSTIFICATION

This project is necessary to repair damaged and substandard storm drainage and install best management practices (BMP) to prevent sediment and contaminants from entering into the storm drainage system and flowing into the ocean. The project will also bring portions of the current storm drainage system to current standards and include improvements to address flood control requirements. If the storm drainage improvements are not installed, low lying areas will be subject to flooding and contaminants from the roadway may drain out into the ocean and impact our natural resources. USEPA is currently tasked with updating the Lahaina Town Drainage Master plan to include green infrastructure. This request is to help implement the portions of the plan that can be expedited to support repopulation and public safety. The overall cost of the plan is expected to be over \$60 million.

Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 170 B. Category D - Water Control Facilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration 18 to 24 months.

Maui Wildfire Disaster Recovery

Project Name: Expedited Permitting
 Department: Department of Public Works
 District: West Maui
 Project Type: Public Works



DSA Building Permit

Overview

A building permit is required for the construction, alteration, moving, demolition, repair, and use of any building or structure within the county.

How to Apply

You must have a [MAPPSS Customer Self Service account](#) in order to apply online. Complete the information in all the steps in [MAPPSS CSS](#) then upload the required documents and plans related to your application. To avoid delays in processing your application, please follow these guidelines:

- o The **Permit Description** should be the owner's name (last name, first name) or the name of the business.
- o The **Valuation** should include materials and labor.
- o Add any contacts that should be associated to the case.
- o Attach all required forms and any other documents/plans that are relevant to the review of your application.

Go online to MAPPSS CSS to apply for:

- o [Building Permit](#) - new construction, addition, alteration or repair.
- o [Building Permit - Demolition](#) - complete removal or demolition of a structure.
- o [Building Permit - Temporary](#) - construction of temporary structures (e.g. tents, booths, stages).



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
2,500,000	2,500,000	2,500,000	7,500,000

PROJECT DESCRIPTION

Expedited services for permitting within the fire impacted areas to support repopulation.

IMPACT JUSTIFICATION

In order to support repopulation in the fire impacted areas, the DPW is establishing a special permitting office in West Maui. The County will establish an expedited permitting process for the fire victims. Annual funding will support, but not fully over the anticipated \$6 M/year cost.

Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope. May be applicable to Disaster Recover Reform Act 2018 (DRRA) Section 1206.

<https://www.fema.gov/assistance/public/policy-guidance-fact-sheets/section-1206-building-code-and-floodplain-management-administration>.

ESTIMATED PERMITTING PERIOD

The estimated period for permitting construction projects is 36 to 48 months.

Maui Wildfire Disaster Recovery

Project Name: Water Supply Infrastructure Repairs and Replacements
 Department: Department of Water Supply
 District: West Maui
 Project Type: Water



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
10,000,000	20,000,000		30,000,000

PROJECT DESCRIPTION

Repairs and replacement of existing water mains, service laterals, and meters to residences in the fire impacted areas. Project will allow property owners to rebuild within the wildfire impacted area.

IMPACT JUSTIFICATION

The initial requests for funding will allow DWS to prioritize the repairs and replacement of existing water mains in the fire impacted areas to support the repopulation efforts. In addition, approximately 2,000 water service laterals and meters to residential properties will need to be replaced and installed prior to residents rebuilding within the wildfire impacted area. Repairs and replacement work will continue beyond FY27.

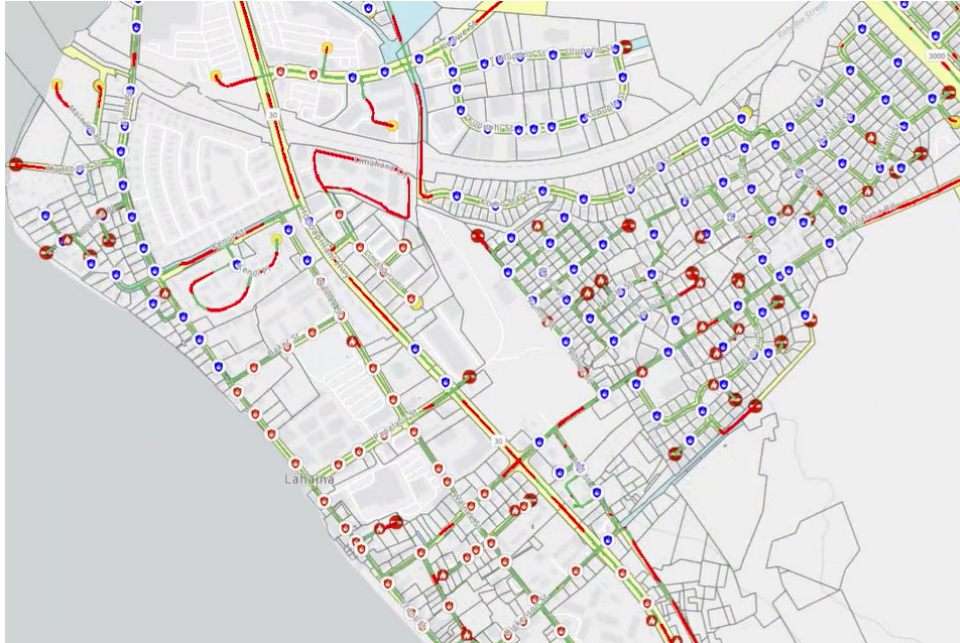
Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards)

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 36 months.

Maui Wildfire Disaster Recovery

Project Name: Fire Flow Improvements to Water System
 Department: Department of Water Supply
 District: West Maui
 Project Type: Water



Locations where additional fire hydrants are needed, where cul-de-sacs (red circles) are substandard, and where new connections (red lines) are needed within the existing water system to strengthen system reliability and operational capacity.

Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
10,000,000			10,000,000

PROJECT DESCRIPTION

Provide improvements and additional fire hydrants to the existing water supply system to meet current fire flow standards.

IMPACT JUSTIFICATION

The proposed water system infrastructure upgrade improvements for Lahaina provide three essential benefits for the area, 1) ensures that the water system meets current department standards for domestic, irrigation, and fire protection usage, 2) strengthens system reliability and operational capacity, and 3) allows for expansion of the system for future development. The lack of proper fire protection measures poses a serious fire and life safety threat.

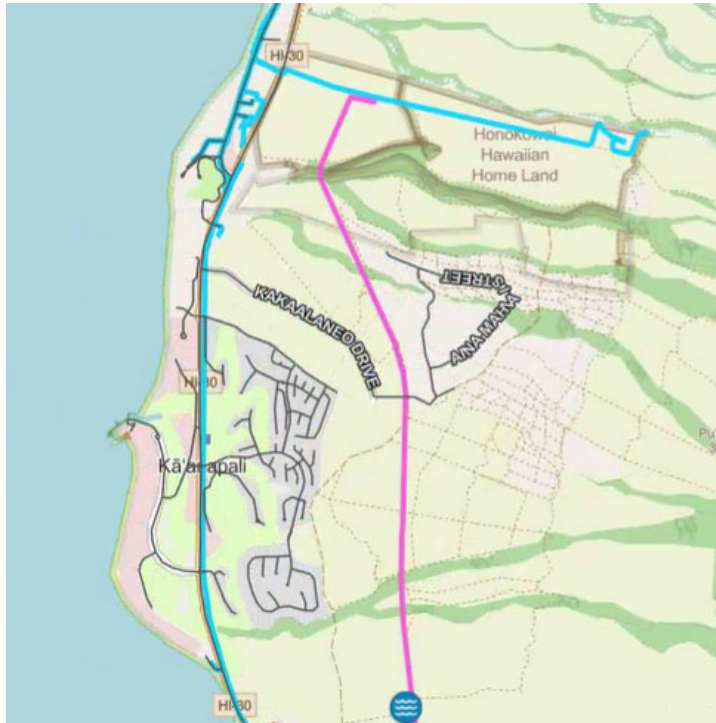
Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 12 to 14 months.

Maui Wildfire Disaster Recovery

Project Name: Honokowai to Wahikuli Water Line Extension
 Department: Department of Water Supply
 District: West Maui
 Project Type: Water



Proposed 16" water main from Honokowai to Wahikuli shown in pink. Existing water lines shown in blue.

Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025	20,000,000		20,000,000

PROJECT DESCRIPTION

Water line extension to provide added resiliency and redundancy within the water system to provide fire support needs.

IMPACT JUSTIFICATION

This water line extension will balance the flow capacity between the northern and southern systems within the fire impacted areas. The water main extension will provide much needed resiliency and redundancy within the water system to provide fire support.

Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 27 months.

Maui Wildfire Disaster Recovery

Project Name: Permanent Disposal Site
 Department: Department of Environmental Management
 District: Central Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
38,000,000			38,000,000

PROJECT DESCRIPTION

Design and construction of a permanent disposal site and offsite improvements to dispose of the debris from the fire impacted areas. (Note: existing landfill space is not sufficient to accommodate the volume of debris associated with the wildfire debris generated during cleanup).

IMPACT JUSTIFICATION

The permanent disposal site is necessary for the completion of all the debris removal in the fire impacted area. Property owners that opt-out of the government funded program and the County have no place to put the debris from the fire impacted area. The design and construction of the final disposal site is necessary for reconstruction and repopulation in the burned zones. Leaving the debris in place is not safe and can be an environmental and health hazard to the community.

Ineligible for Public Assistance (PA) Funding - (FEMA PAPPG pg. 114 F. Increased Operating Cost.)

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 12 to 16 months.

Maui Wildfire Disaster Recovery

Project Name: Pump Station Temporary Repairs
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
5,000,000			5,000,000

PROJECT DESCRIPTION

Temporary repairs of existing sewer pumps stations that were damaged in the fire impacted areas to maintain continuity of operations.

IMPACT JUSTIFICATION

The existing pump stations were damaged in the August Maui wildfires. If repairs to the pump stations do not occur, the wastewater system is susceptible to wastewater spills and lack of service to the fire impacted areas. The wastewater spills would not be good for the environment and the County would be subject to fines by the EPA and Dept. of Health for violations, if the spills were to occur. In addition, the pump stations are integral to each other and need to work together for the wastewater system to work. These immediate repairs will help to support repopulation efforts in FY25.

Eligible for Public Assistance (PA) if it is a temporary measure. If the repairs fix the issue, it is permanent work which is also PA eligible. (FEMA PAPPG Pg. 135 X. Emergency Repair or Stabilization Emergency repair or stabilization of an eligible facility is eligible as Emergency Work if it eliminates or lessens an immediate threat. Work performed under an exigent circumstance that restores the pre-disaster design and function of the facility in accordance with codes and standards is Permanent Work, not Emergency Work.)

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 8 to 12 months.

Maui Wildfire Disaster Recovery

Project Name: Wastewater Collection System Repairs
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Maui County Wastewater Collection System



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
11,000,000	20,000,000	5,000,000	36,000,000

PROJECT DESCRIPTION

Repair and replacement of sewer pipelines that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation and protects the nearshore environment and the wastewater treatment plant by preventing saltwater from entering the treatment system.

IMPACT JUSTIFICATION

The existing wastewater system is compromised with inflow and infiltration, which is likely due to damage from the August wildfires. The infiltration of both fresh water and salt water continues to exacerbate the lower influent carbon challenge at the Lahaina WWTP. The wastewater collection system in West Maui is a total of 113,000 linear feet with some sections over 50 years old. The repairs and replacement of damaged and substandard pipe is necessary for the repopulation within the fire impacted areas and for the Lahaina WWTP to function again. The damage is currently being accessed with CCTV by the EPA. It is estimated that the approximate cost of replacing damaged and substandard sections of the system could be \$109 M. The cost of repair and replacement will extend beyond FY27.

Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities).

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 36 to 40 months and is expected to extend beyond FY27.

Maui Wildfire Disaster Recovery

Project Name: Wastewater Collection System Laterals and Cleanouts
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Wastewater System Damage Assessment



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
9,000,000			9,000,000

PROJECT DESCRIPTION

Repair and replacement of sewer laterals and cleanouts that were damaged in the fire impacted areas to current standards at each impacted parcel. This project supports repopulation.

IMPACT JUSTIFICATION

The majority of the properties in the fire impacted area did not meet current standards with a sanitary sewer cleanout primarily due to the age of the lots. This project is necessary to install approximately 2000 sewer laterals and cleanouts to properties within the fire impacted area and directly support the repopulation of the area.

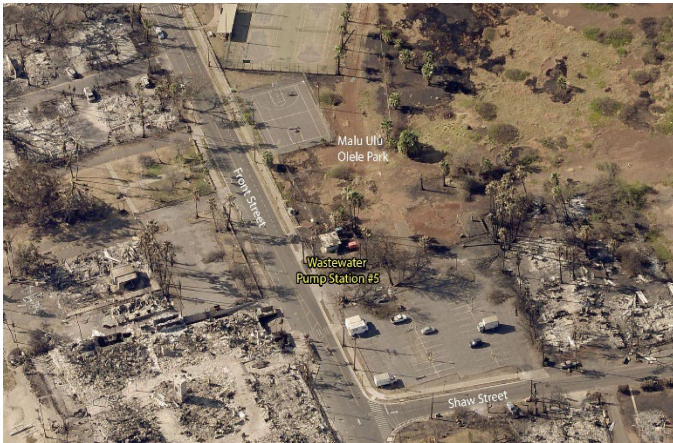
Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities). Compliance with Codes & Standards (PAPPG pg. 145 III. Codes and Standards).

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 14 to 18 months.

Maui Wildfire Disaster Recovery

Project Name: Pump Station Replacement
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025	25,500,000		25,500,000

PROJECT DESCRIPTION

Permanent repairs to current standards for existing sewer pump stations in the fire impacted areas. Total pump stations within the fire impacted areas are 5.

IMPACT JUSTIFICATION

While the immediate repairs to the pump stations are necessary in FY25, the full replacement of Pump Station No. 5 and Pump Station No. 6 are necessary due to the fire damage sustained. Pump Stations No. 3, No. 4, and No. 7 sustained fire and wind damage that needs to be repaired, but they do not need replacement. During the replacement of the pump stations, temporary pumping will be necessary. The cost of the pump stations replacement includes the cost of temporary bypass pumping. The pump stations repair and replacements are necessary for the entire wastewater collection system to function as repopulation occurs.

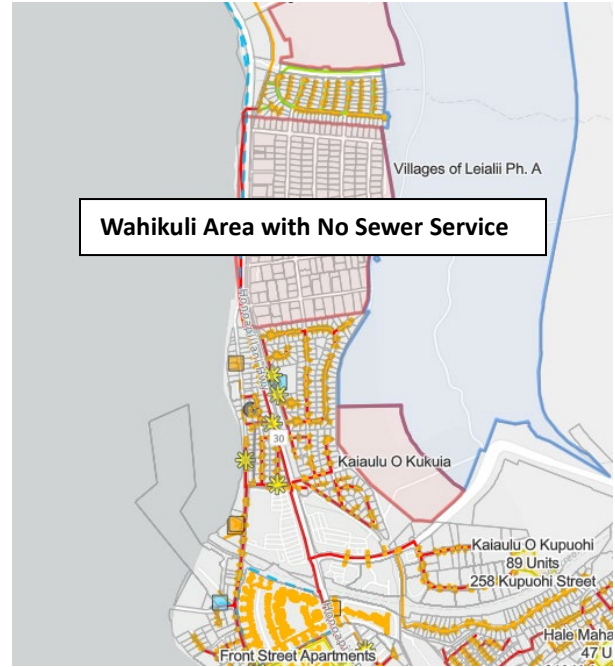
Public Assistance (PA) Eligible - Permanent repairs as a result of the disaster (PAPPG pg. 176 D. Category F - Utilities) FEMA Replacement Rule "50% Rule" - (PAPPG Pg. 157 V. Repair vs. Replacement).

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 30 months.

Maui Wildfire Disaster Recovery

Project Name: Wahikuli Sewer Installation
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
	29,000,000		29,000,000

PROJECT DESCRIPTION

Install a new sewer system in the Wahikuli area to meet current EPA and Department of Health standards. System will tie into the existing collection system where wastewater will be pumped to the existing treatment plant.

IMPACT JUSTIFICATION

Pre-fire, the Wahikuli properties used their existing cesspool systems because there was no wastewater collection system in the area. Currently, the installation of cesspools is illegal. The Dept. of Health will allow the existing residents to reconnect to the cesspools on a temporary basis, if there is no increase to the previous bedroom count. The County will need to design and construct a new wastewater system in the Wahikuli area to be compliant with current EPA and Dept. of Health standards and connect that system to the existing WWTP. The current area's cesspools are not safe for long-term public and environmental health. The installation of a wastewater collection system is necessary to comply with EPA and Dept. of Health requirements and would allow residents to build back with higher densities and increased bedrooms, which provides additional housing in the West Maui area.

Would require a Pilot Program from FEMA and/or State - Currently outside of current PA Scope.

ESTIMATED CONSTRUCTION DURATION

The estimated construction period is 24 to 36 months.

Maui Wildfire Disaster Recovery

Project Name: Kahului WWTP 4th Aeration Basin
 Department: Department of Environmental Management
 District: Central Maui
 Type: Wastewater



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
15,000,000			15,000,000

PROJECT DESCRIPTION

Increase wastewater treatment capacity necessary to support temporary and permanent housing.

IMPACT JUSTIFICATION

The current Kahului WWTP is at capacity. The completion of the temporary fourth aeration basin will allow for necessary capacity in the Central Maui area for temporary and permanent housing while the Central Maui Wastewater Treatment plant is undergoing the environmental clearance, design, and construction.

Likely not eligible. Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 12 to 16 months.

Maui Wildfire Disaster Recovery

Project Name: Lahaina WWTP Upgrade
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
	FY 2026	FY 2027	
FY 2025	9,500,000		9,500,000

PROJECT DESCRIPTION

Provide added capacity to the existing Lahaina WWTP to meet demand generated by temporary and permanent housing.

IMPACT JUSTIFICATION

The Lahaina WWTP is also near capacity. The plant needs additional capacity and to be brought up to current standards to support temporary and permanent housing. In order to increase capacity, the discharge also needed to be increased, however the DOH NPDES permit limits the discharge at this facility. This project goes hand in hand with the West Maui Recycled Water System. The extra discharge will go to the West Maui Recycled Water System.

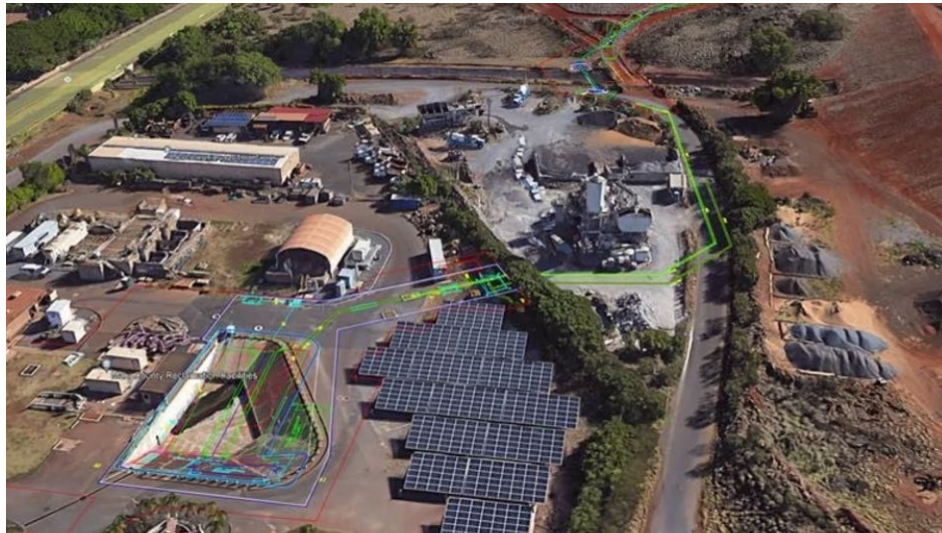
Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 14 to 18 months.

Maui Wildfire Disaster Recovery

Project Name: West Maui Recycled Water System
 Department: Department of Environmental Management
 District: West Maui
 Project Type: Wastewater



Request	Subsequent Years		Total
FY 2025	FY 2026	FY 2027	
	11,500,000		11,500,000

PROJECT DESCRIPTION

Provide added capacity to the existing West Maui Recycled Water System to meet and support temporary and permanent housing.

IMPACT JUSTIFICATION

The expansion of the West Maui Recycled Water system is necessary as the Lahaina WWTP's capacity expands. The Lahaina WWTP's discharge is limited by a Dept. of Health NPDES permit. The expansion of the West Maui Recycled Water system will be able to convert the discharge from the Lahaina WWTP to R1 water. The benefits are twofold because the R1 water can be used as irrigation, saving the limited water supply in West Maui for domestic use.

Public Assistance (PA) Eligible for repairs and code compliance only if damaged by the disaster.

ESTIMATED CONSTRUCTION DURATION

The estimated construction duration is 24 to 28 months.