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GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

Public Assistance:  
406 Mitigation

# What is 406 PA-Mitigation?

Mitigation for damaged facilities.



# FEMA PA has released a new cost-share initiative to incentivize the use of 406 mitigation:

PROJECT ACTIVITY	New Total Project Cost Share
Applicant completes an eligible Hazard Mitigation Proposal on a PA Permanent Work project for which <b>the total cost of the Hazard Mitigation Proposal is equal to or greater than 20% of the total eligible repair/restoration cost of the project.</b>	<b>80% Federal Share</b>
Applicant completes an eligible Hazard Mitigation Proposal on a Permanent Work project for which the total cost of the Hazard Mitigation Proposal is equal to or greater than 20% of the total eligible repair/restoration cost of the project at the time of obligation; <b>AND Applicant has adopted the current 2024 edition or the previous 2021 edition of the IBC and the IECC for commercial buildings or equivalent code or standard, such as ASHRAE Standard 90.1.</b>	<b>85% Federal Share</b>

# The 406 Process



Observe  
Exploratory Call or  
Review Notes

Attend RSM and  
Introduce 406

Attend Site  
Inspection

Write HMP in  
coordination with  
PDMG, applicant  
and submit to PA  
through Grants  
Manager

Make edits to  
HMP if necessary  
and work with  
PDMG to award  
grant including  
406

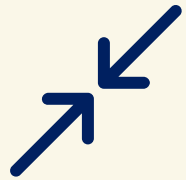
# 406 Mitigation Eligibility

Only Category C-G permanent projects are eligible

Mitigation measures are restricted to damaged infrastructure impacted by the disaster event and in conjunction with permanent work projects

These are measures over and above current codes and standards

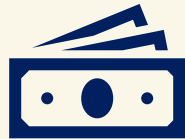
# Eligibility Criteria for Section 406



**Reduce potential of future, similar damage to the facility**



**Technically feasible**



**Cost Effective**



**Compliant with all laws and executive orders**

# 406 Mitigation Cost Effectiveness

406 Mitigation measures must be cost-effective

- Expenses do not exceed 15% of the cost for repairing an eligible Damage Inventory item
- Expenses do not exceed 100% of the cost for repairing an eligible Damage Inventory item and, the selected mitigation measure is identified in Appendix J of FEMA's PAPPG Cost-Effective Mitigation Measures
- If not initially cost-effective, grant funds may be awarded if a benefit-cost ratio greater than 1.0 is estimated using FEMA's Benefit Cost Analysis (BCA) Tool (v6.0)
- FEMA may provide technical support to complete a BCA upon request

# PAPPGv4 APPENDIX J:

## Cost-Effective Public Assistance Hazard Mitigation Measures

- I. Drainage Structures
- II. Transportation Facilities
- III. Mechanical, Electrical, Plumbing (MEP)  
Components
- IV. Pipes
- V. Waste/Wastewater
- VI. Electric Power Systems
- VII. Storage Tanks
- VIII. Buildings and Structures
- IX. Signage

# 406 Mitigation Examples

## Example 1

- Harden and expand an engineered and maintained culvert damaged by the disaster event into a larger structure. Extend the culvert discharge beyond the toe of embankment to mitigate erosion and scour. Use energy-dissipating riprap to mitigate scour.  
\*May require a Hydraulic and Hydrology (H&H) Study



# 406 Mitigation Examples

## Example 2

- Install a new debris barrier or grate during the repair of a disaster impacted culvert to prevent possible debris flow blockage



# 406 Mitigation Examples

## Example 3

- Install riprap to prevent scouring and install native plants for erosion control



# 406 Mitigation Examples

## Example 4

- Elevate vulnerable equipment above base flood elevation



# Thank You!

