Pen Argyl Borough, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

Robin Zmoda Borough Manager 11 N. Robinson Avenue, Pen Argyl, PA 18072 610-863-1822 manager@penargylborough.com

Alternate:

Steven Bender
Public Works Director
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Municipal Profile

Pen Argyl Borough is located in the northeastern part of Northampton County. It encompasses an area of approximately 1.4 square miles, and has a population of 3,595 (2010 Census). The borough is surrounded by Plainfield Township.

There are no streams passing through the borough; however, there are several small bodies of standing water, including those at mine pits.

The major roadway through the borough, PA Route 512, runs east-west, and is known as W. Pennsylvania Avenue, E. Main Street, and Blue Valley Drive.

Municipal Participation

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

Robin Zmoda, Borough Manager

Role: Administrator

Steven Bender, Public Works Director

Role: Public Works

Barry Isett Associates

Role: Floodplain Administrator

Dean Parsons, Fire Chief

Role: Emergency Management

Borough Council Role: Government

Municipal Participation - continued

2. Identify community stakeholders such as; neighborhood groups, religious groups, major employers / businesses, etc., that will be informed and / or involved in the planning process and describe how they will be involved.

Pen Argyl School District MC2 Slate Belt Rising Waste Management

3. Describe how the public **will be engaged** in the current planning process examples, newsletters, social media, etc., **and how they were engaged** since the 2013 Hazard Mitigation Plan.

Monthly online newsletter 2 times a year printed newsletter Social media Email blasts

Compliance with the National Flood Insurance Program (NFIP)

Topic Topic	Identify source of information, if different from the one listed.	Additional Comments
1. Staff Resources	unierent from the one listed.	
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	No
Is floodplain management an auxiliary function?	Community FPA	Yes
Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability)	Community FPA	Works in conjunction with Zoning Code Officer for reviews, etc.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	Staffing
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Do not know.
Are there any outstanding compliance issues (i.e., current violations)?		Do not know.
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		Do not know.
Is a CAV or CAC scheduled or needed?		Do not know.

Compliance with the National Flood Insurance Program (NFIP) - continued

Topic	Identify source of information, if different from the one listed.	Additional Comments
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	6/25/1976
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Maps are both paper and digital. Residents are directed to the FEMA site and the Borough assists if needed.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Meet
Describe the permitting process	Community FPA, State, FEMA NFIP	Permit applications submitted, plan reviewed.
4. Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	0
How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been?	FEMA NFIP or Insurance Specialist	0
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	0
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	N/A
5. Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov)	N/A
What categories and activities provide CRS points and how can the Class be improved?		N/A
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A

Community Assets

Community assets are defined to include anything that is important to the character as well as the function of a community, and can be described in four categories, they are; people, economy, natural environment and built environment. Please identify the community assets and location under each category.

1. People

• Concentrations of vulnerable populations such as the elderly, physically or mentally disabled, non-English speaking, and the medically or chemically dependent.

Morning Star Manor – elderly

Community Assets - continued

 Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

Pen Argyl Area High School Immaculate Conception School Weona Park Slate Belt YMCA

2. Economy

Major employers, primary economic sectors such as agriculture and commercial centers where losses would have a severe impact on the community.

Pen Argyl High School MC² (217 Webster LTD) Forza Commercial centers

3. Natural Environment

Those areas / features that can provide protective functions that reduce the magnitude of hazard events such as, wetlands or riparian areas, and other environmental features important to protect.

4. Built Environment

• Existing structures such as, concentrations of buildings that may be more vulnerable to hazards based on location, age, construction type and / or condition of use.

Borough of Pen Argyl

• Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.

Pen Argyl Wastewater Treatment Plant Pennsylvania American Reservoir

 High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.

Community Assets – continued

• Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.

Lookout Fire Station
Pen Argyl Borough Hall
Pen Argyl Area High School
Immaculate Conception School
Slate Belt YMCA

Cultural / historical resources such as, museums, parks, stadiums, etc.

Weona Park Carousel Weona Park Pen Argyl High School Stadium

Capability Assessment

			Status			Effect on		Has the 2013	How can	
Capability	✓ Regulatory ✓ Tools ✓ Programs	In Place	Date Adopted or Updated	Under Development	Department / Agency Responsible	Hazard Loss Reduction: - <u>S</u> upports - <u>N</u> eutral - <u>H</u> inders	Change since 2013 Plan? + Positive - Negative	Plan been integrated into the Regulatory Tool/Program ? If so, how?	these capabilities be expanded and improved to reduce risk?	Additional Comments
	Comprehensive Plan	Χ	9/2004		Borough	N				
>	Capital Improvement Plan									
to	Economic Development Plan									
<u>n</u>	Continuity of Operations Plan									
& Regulatory	Stormwater Management Plan / Ordinance	Χ	7/2014		Borough	N				
anning &	Open Space Management Plan (or Parks/Rec., Greenways Plan)									
ann	Natural Resource Protection Plan									
<u> </u>	Transportation Plan									
	Historic Preservation Plan									
	Floodplain Management Plan									

Capability Assessment – continued

			Status			Effect on	Change	Has the 2013			
Capability	1109.4		Date Adopted Or Under Oevelobment		Department / Agency Responsible	Hazard Loss Reduction: - <u>S</u> upports - <u>N</u> eutral - <u>H</u> inders	since 2013 Plan? + Positive - Negative	Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments	
	Farmland Preservation										
<u>></u>	Evacuation Plan	Χ	2/2016		Borough						
ulator	Disaster Recovery Plan										
grig	Hazard Mitigation Plan	Χ	11/2018		County						
Regi	Emergency Operations Plan	Χ	12/2018		Borough						
∞ర	Zoning Regulations	Χ	7/1997		Borough						
ing	Floodplain Regulations	Χ	2019		FEMA						
Plannin	NFIP Participation	Χ	2011		FEMA						
<u> </u>	Building Code	Χ	3/1974		Borough						
	Fire Code	Χ	9/1994		Borough						
	Multi-Municipal Comprehensive Plan			Χ							

Capability Assessment – continued

Capability	✓ Staff ✓ Personnel ✓ Resources	Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
	Planners (with land use / land development knowledge)		Χ				
ology	Planners or engineers (with natural and / or human-caused hazards knowledge)	Χ					
echnology	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	Х					
⊢ «ŏ	Emergency Manager	Χ					
_	Floodplain administrator / manager	Χ					
ati	Land surveyors	Χ					
istr	Staff familiar with the hazards of the community		Χ				
dministrative	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program		Χ				
2. A	Grant writers or fiscal staff to handle large / complex grants	Χ					
	Other						

Capability		Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
	Capital improvement programming		X				
6S	Community Development Block Grants (CDBG)	X		County			
urc	Special purposes taxes	X		Borough			
SO	Gas / Electricity utility fees		Χ				
Re	Water / Sewer fees	X		Borough			
cial	Stormwater utility fees		Χ				
an	Development impact fees		Χ				
Fin	General obligation, revenue, and / or special tax bonds	Х		Borough			
က်	Partnering arrangements or intergovernmental agreements	Х		Borough			
	Other						

Capability Assessment – continued

Capability	✓ Program ✓ Organization	Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
	Firewise Communities Certification		X				
당	StormReady Certification		Χ				
rea	Natural disaster or safety-related school programs		Χ				
& Outreach	Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.	Х		County			
ducation	Public-private partnership initiatives addressing disaster related issues.		Χ				
4. Educ	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	X		County, FEMA, PEMA			
	Other						

ì	Capability		Deg	ree of Capab	ility	Change since the 2013 Hazard Mitigation Plan?	Additional Comments	
•	Cap		Limited	Moderate	High	If so, how?		
	ı,	Planning and Regulatory		X				
Self -	sment	Administrative and Technical	Х					
5. S	es	Financial	X					
	Ä	Education and Outreach		X				

Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Albion Ventures	Residential	Unknown	Railroad Avenue	No	

Natural & Non-Natural Event History Specific to Pen Argyl Borough

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
Winter Storm, February 2014		Snow removal
Pennsylvania COVID-19 Pandemic – 1/2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
Remnant of Hurricane Ida	DR-4618-PA	Assistance to eligible individuals and families affected by this disaster.

2013 Municipal Action Plan Status

			Status			
Existing Mitigation Action (from 2013 Hazard Mitigation Plan)	No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	Additional Comments
Stormwater Management Upgrades – Expand the municipal stormwater system to manage stormwater-flooding problems in the area of Moyer Avenue and Hazen Avenue. Preliminary project scoping identifies approximately 1,400 linear feet of piping and 11 inlets.				X		Action not carried through to the 2018 Action Plan.
Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.			X			
Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.			X			

2013 Municipal Action Plan Status – continued

•			Status			
Existing Mitigation Action (from 2013 Hazard Mitigation Plan)	No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	Additional Comments
Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions below.			X			
Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.			X			
Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).				Х		Action carried through to the 2018 Action Plan.
Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.				Х		Action carried through to the 2018 Action Plan.
Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	X					

2013 Municipal Action Plan Status - continued

				Status	i		
	Existing Mitigation Action (from 2013 Hazard Mitigation Plan)	No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	Additional Comments
9	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	Χ					
10	Archive elevation certificates			Χ			
11	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0			Χ			
12	Complete the ongoing updates of the Comprehensive Emergency Management Plans			Χ			
13	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.			Χ			
14	Identify and develop agreements with entities that can provide support with FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping			Х			
15	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).			X			

Notes:

- 1. Actions not carried through to the 2018 Action Plan are so noted.
- 2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2018 Action Plan even if identified by the municipality as completed.

2018 Mitigation Action Plan

	Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
1	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	Structure & Infrastructure	Flood	Medium- High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing
2	Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	Structure & Infrastructure	Flood	Medium- High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions below.	Local Plans & Regulations	Flood	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA	Ongoing	New & Existing

	2010 Miligation Action	1 1411 0077	-						
	Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
4	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	Education & Awareness	All Hazards	High	Low- Medium	Municipal Budget	Municipality with support from Planning Partners, PEMA, FEMA	Short-term	N/A

	Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
5	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).	Local Plans & Regulations	Flood	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term	New & Existing
6	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit- Cost Analysis.	Local Plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A
7	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	Local Plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PADEP, PEMA, FEMA	Short-term	N/A
8	Obtain and archive elevation certificates for NFIP compliance.	Local Plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Ongoing	N/A

	Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
9	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	All Categories	All Hazards	High	Low – High (for 5-year update)	Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Municipality (via mitigation planning point of contacts) with support from Planning Partners (through their Points of Contact), PEMA	Ongoing	New & Existing
10	Complete the ongoing updates of the Comprehensive Emergency Management Plans	Local Plans & Regulations	All Hazards	High	Low	Municipal Budget	Municipality with support from PEMA	Ongoing	New & Existing
11	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.	All Categories	All Hazards	High	Low	Municipal Budget	Municipality with support from Surrounding municipalities and County	Ongoing	New & Existing
12	Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping.	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality with support from County, PEMA, FEMA	Short-term	N/A

	Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
13	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	Education & Awareness	All Hazards	Medium	Medium	Municipal budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-, long- term (depending on funding)	N/A
14	responsible for setting up points of distribution and providers for immunizations.	Local Plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
15	Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.	Local Plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
16	Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected.	Local Plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
17	prevention.	Education & Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
18	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Ongoing	N/A
19	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-term	N/A

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
Provide training and education for first responders to ensure effective emergency care.	Local Plans & Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education & Awareness	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality/ School District	Ongoing	N/A
Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local Plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support	Short-Term	N/A

Notes:

Estimated Costs:

- Where actual project costs have been reasonable estimated: Low = < \$10,000; Medium = \$10,000 to \$100,000; High = > \$100,000;
- Where actual project costs cannot reasonably be established at this time:

Low = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.

Medium = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.

High = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Potential Funding (FEMA HMA):

- BRIC = Building Resilient Infrastructure and Communities
- **FMA** = Flood Mitigation Assistance Grant Program
- **HMGP** = Hazard Mitigation Grant Program
- **HSGP** = Homeland Security Grant Program
- **EMPG** = Emergency Management Performance Grant

Implementation Schedule:

- Short Term = 1 to 5 years
- **Long Term** = 5 years or greater
- **DOF** = Depending on Funding

Applies to New and/or Existing Structures:

- N/A = Not Applicable