



Application Development Workshop Hazard Mitigation Grant Program

Hurricane Hermine
(DR-4280)

Hurricane Matthew
(DR-4283)



Welcome and Introductions



THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



What does Mitigation do?

Mitigation breaks the cycle of disaster, damage, reconstruction and repeated damage



“Investing a dollar now to save four dollars in the future...”

Multi-hazard Mitigation Council. (2005). *Natural Hazard Mitigation Saves*.
National Institute of Building Sciences. Washington, D.C.



Where Does Mitigation Fit?

Mitigation

Reducing the loss of life and property by lessening the impact of disasters



Recovery

Putting a community back together after a disaster

Preparedness

Getting people and equipment ready to quickly and effectively respond to a disaster before it happens

Response

Saving life and property during and immediately after a disaster



Rule 27P-22, F.A.C

Hazard Mitigation Grant Program (HMGP)

...

Outlines a project selection process *implemented at the local level*

...

Requires brief annual updates from each LMS working group regarding local risk & effort

...

Unique funding allocation process maximizes post-disaster federal funding use



Funding

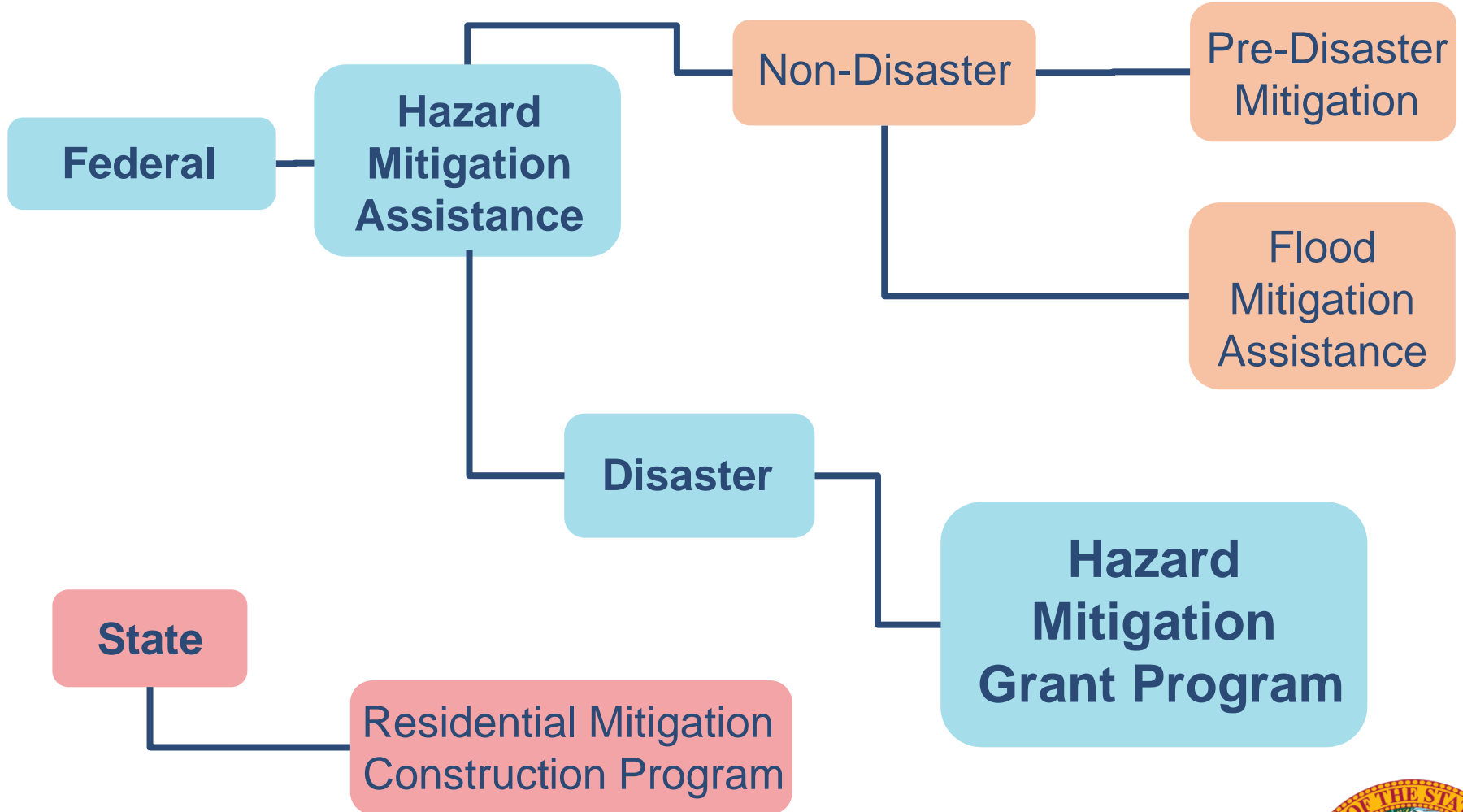
Who can
apply?

What are the
different
funding options
available?

Am I
eligible?



Mitigation Funding Programs



Who Can Apply?

Private Non-Profit Organizations

Examples: Medical, Residential Health Care Facilities, Educational, Emergency Utility

**If you have been considered eligible for PA, you are most likely an eligible applicant.*

Government Entities

- State Agencies
- Local Governments and Agencies
- Special and Regional Districts

All must go through the Local Mitigation Strategy Working Group of the county where the project will take place.

Tribal Nations



Minimum Applicant Eligibility Criteria

Applicant's jurisdiction must have a FEMA-approved local mitigation plan as a condition of receiving a project grant



All jurisdictions included in multi-jurisdictional plan must have formally adopted their respective Local Mitigation Strategy (LMS)



All jurisdictions must participate in the NFIP (communities on probation or suspended from the NFIP are not eligible).



Eligibility Criteria

All mitigation measures submitted to the state for funding consideration must:

- Be consistent with the State Hazard Mitigation Plan
- Provide a long-term solution
- Be located in a vulnerable area as identified in Local Mitigation Strategy (LMS)
- Be technically feasible and meet cost effectiveness and environmental conformity
- The measure must identify a non-federal match (75/25)



Disaster Funding Programs

404/406
Mitigation

Tier
Funding
Process

Eligibility

Process



Post-Disaster Mitigation Funding

Hazard Mitigation Grant Program (404)

- Vulnerable to any natural event, not just declared event
- **Can be** used on private property
- Project can not be eligible under any other federal program
- Must be cost effective and meet other performance criteria

Public Assistance (406)

- Damaged by the event-site specific mitigation
- Located within defined declaration area
- **Can not be** used for private property
- Project can not be eligible under any other federal program
- Facility must be in active use at time of the disaster



Program Funding

- HMGP is a cost-reimbursement grant program
 - All approved eligible project costs are financed by the subgrantee with reimbursement requested from the State
- FEMA may fund up to 75% of the eligible costs of each project
- Administrative Costs
- Project Cost-Share
 - The applicant must provide a 25% match, which can be fashioned from a combination of cash and in-kind sources (44CFR 206.432(c)), and project (global) match



Three-Tiered Funding System

- FEMA provides State with initial HMGP funding amount
- State determines County allocations based on the prorated share of federal disaster funds spent in their county on:
 - Public Assistance (PA)
 - Individual Assistance (IA)
 - Small Business Administration (SBA)
- State publishes a Notice of Funding Availability (NOFA) which contains allocations of all designated counties



Three-Tiered Funding System (cont'd)

- **Tier One**
 - Initial allocation of submitted and eligible projects will be funded in order of priority as endorsed by the LMS Working Group
- **Tier Two**
 - Any allocation remaining after all eligible projects in any designated county are funded will go to another designated county Working Group with a partially funded project contained in original submission.
- **Tier Three**
 - If funds remain after the Tier Two funding process, the un-obligated funds will be provided to any applicant statewide with a project application submitted within the application period, on a first-come-first-serve basis until all available funds are obligated.



Eligible Types of Project

- Acquisition:
 - Acquiring and relocating/demolishing structures from hazard-prone areas
- Retrofit:
 - Retrofitting structures to protect them from floods, high winds, earthquakes, or other natural hazards
- Elevation:
 - Elevating existing structures to avoid flooding damages



Eligible Types of Project (cont'd)

- Drainage:
 - Constructing certain types of minor and localized flood control projects
- Wild Fire Activities:
 - Defensible space/vegetation barriers; retrofitting with fire-resistant materials and vegetation management



Previously Funded HMGP Projects

- Acquisition/relocation
- Elevation of structures
- Elevation of critical infrastructure
- Catch basins/water retention projects
- Wetland restoration
- Flood proofing of non-residential structures
- Drainage improvements
- Flood control gates
- Sewer backup protection

- Erosion and sediment control projects
- Lift/pump stations retrofits
- Structural hazard control or protective actions
- Retrofitting wastewater treatment plant
- Water diversion
- Shuttering/wind protection measures
- Certain paving projects



What Makes An Eligible HMGP Project?

- Conformance with 44CFR Part 201
- Provides beneficial impact
- Conformance - 44 CFR part 9 Flood Plain Management and Protection of Wetlands, and 44 CFR part 10 Environmental Considerations
- Solves a problem
- Be technically feasible
- Meets all applicable state and local codes



Project Eligibility (cont'd)

- Be cost-effective and substantially reduce the risk of future damage, hardship, loss, or suffering resulting from a major disaster. The grantee must demonstrate this by documenting that the project:
 - Addresses a repetitive problem or a significant risk
 - Will not cost more than the anticipated value of the benefits
 - Has been determined the most practical, effective, and environmentally sound alternative after consideration of a range of options
 - Contributes to a long-term solution
 - Considers long-term changes to the area and has manageable maintenance and modification requirements

44CFR 206.434



Ineligible Activities

- Generators (unless...)*
- Communications equipment
- Warning systems
- New construction
- Potable water supply
- Studies only
- Sewage extensions in undeveloped areas
- Project for which work commences prior to awarding of grant
- Emergency pumps



HMGP Process

- Notice of Funding Availability
- Applicant development workshops
- LMS Working Group submit priority list to state
- Applications submitted to state for eligibility review
- State conducts project reviews
- State submits eligible projects to FEMA for final approval and potential funding consideration
- Upon FEMA approval, State begins the project/grant management process



Time Frame and Expectations

- State submits local applications to FEMA up to 12 months after the disaster declaration
- FEMA's goal is to obligate all funds within 24 months of disaster declaration
- Program Administration by States
 - Overall quicker state and FEMA approvals.



Role of the Applicant

Develop/submit eligible and **complete** project applications (original plus 2 copies), postmarked by deadline:

- **DR-4280: May 5th, 2017**
- **DR-4283: June 9th, 2017**

- Complete State contracting process as timely as possible
- Perform project in accordance with approved scope of work and milestone schedule
- Manage project and funds received
- Submit quarterly reports to State (due no later than the **15th** of the month after quarter end)
- Audit projects in accordance with 2 CFR Part 200.500-200.513 Audit Requirements



HMGP Application Process

- Use the HMGP Application Checklist as a guide for completing the application
- Make sure the disaster is identified
 - (FEMA-4280-DR-FL)
 - (FEMA-4283-DR-FL)
- The descriptive project title (i.e., Volusia County, City of DeBary, West Side Emergency Flood Management System, Drainage)



General Applicant Information

- Name of Applicant Organization
- Applicant type
- County/Counties
- State Legislative/Congressional District(s)
- Federal Tax Identification Number
- FIPS Code
- DUNS number
- FFATA

- Point of Contact
- National Flood Insurance Program (NFIP) Community Identification Number
- Application Preparer Information
- Duly Authorized Representative
- LMS Letter



LMS Endorsement Letter

- Must have priority number and budget (federal share)
- Must identify how project meets LMS goals and objectives
- Signed by LMS Chair
- Applications without a LMS endorsement letter will NOT be processed.



Pre-Award Costs

- Pre-construction soft costs
 - Activities such as engineering, modeling, permitting, environmental study, etc.
- Only costs incurred after Presidential Declaration Date
- Must be approved by State and FEMA
- A request form must be submitted with application
- Cannot include construction
- If the project is not approved, pre-award costs will be solely the responsibility of the applicant



Project (Global) Match

- Any eligible project type under HMGP
- Funded 100% by non-federal funds
- Project must meet HMGP criteria

- Match project must **NOT** begin prior to approval from FEMA.
- Requires separate project application



Budget Development

Provide detailed costs of the project. This information will be used for the Benefit-Cost Analysis
(Do not include contingency costs or maintenance costs in the budget)

- Materials costs (include all in-kind matches)
- Labor costs (include all in-kind matches)
- Other costs/fees (permitting, engineering, etc.)
- Project management costs (factor Admin Costs here)

For more information see 44 CFR §13.24



Budget Development (cont'd)

Detail all anticipated project costs

- Avoid the use of lump sum costs
 - Whenever possible, quantify or provide additional breakdown of large lump sum cost items

- Provide the source of the estimate
 - i.e., documented local costs
 - vendor quotes



Budget Development (cont'd)

- Funding Sources
 - Estimated FEMA Share (maximum federal share is 75%)
 - Non-Federal Share
 - 25% (Cash, In-Kind, Project Global Match)

<i>Estimated FEMA Share</i>	\$ _____ % of Total (maximum of 75%)
<i>Non-Federal Share</i>	
Estimated Local Share	\$ _____ % of Total (Cash)
	\$ _____ % of Total (In-kind*)
	\$ _____ % of Total (Project Global Match**)
<i>Other Agency Share</i>	\$ _____ % of Total
(Identify Other Non-Federal Agency and availability date: _____)	
<i>Total Funding sources from above</i>	\$ _____ Total % (should equal 100%)

*Identify proposed eligible activities directly related to project to be considered for In-kind services. (Note on Page 4 Section B)
**Separate project application must be submitted for each project (Global) Match project.

Example -
page 5 of
HMGP
application



Project Milestones

- **Project Schedule of Work** (cannot exceed a 3 year period)
 - Identify project milestones, include all phases of the project
 - Milestone example: project design
 - Number of days to complete example: 6 months



Program Changes

- FFATA (Federal Funding Accountability and Transparency Act) form now required
- DUNS number now required
- SFHA insurance requirement
- Acquisition requirements
 - Notice of Interest
 - Voluntary Participation Agreement



Questions?



Application Review

PROJECT MANAGEMENT



ENGINEERING



ENVIRONMENTAL



Engineering Review



THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



Cost-Effective Projects

“The Grantee must demonstrate (that the project is cost effective) by documenting that the project...will not cost more than the anticipated value of the reduction in both direct damages and subsequent negative impacts to the area if future disasters were to occur”

44 CFR Part 206, Section 206.434 Eligibility (c) (5) (ii)



Benefit Cost Analysis (BCA)

$$\frac{\text{Benefits}^*}{\text{Costs}} = 1.0 \text{ or greater (Ratio)}$$

* Benefits = Reduced Damages and/or Avoided Future Damages

The analysis is done utilizing FEMA's Benefit Cost Analysis tool (version 5.2.1 and 5.3)

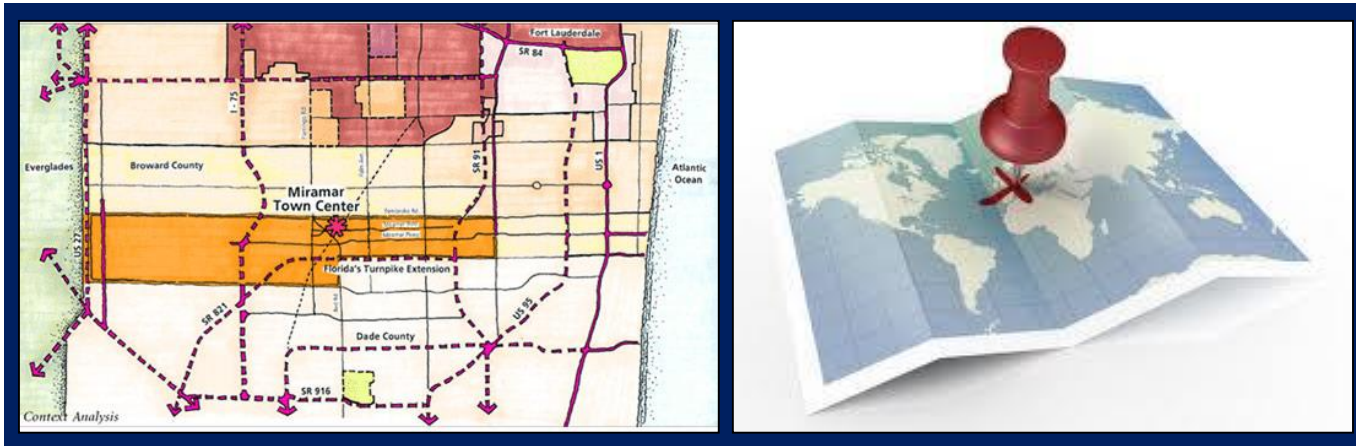
BCA Exemptions: Acquisitions under \$276,000 and Elevations under \$175,000 located in the Special Flood Hazard Area.



Project Review

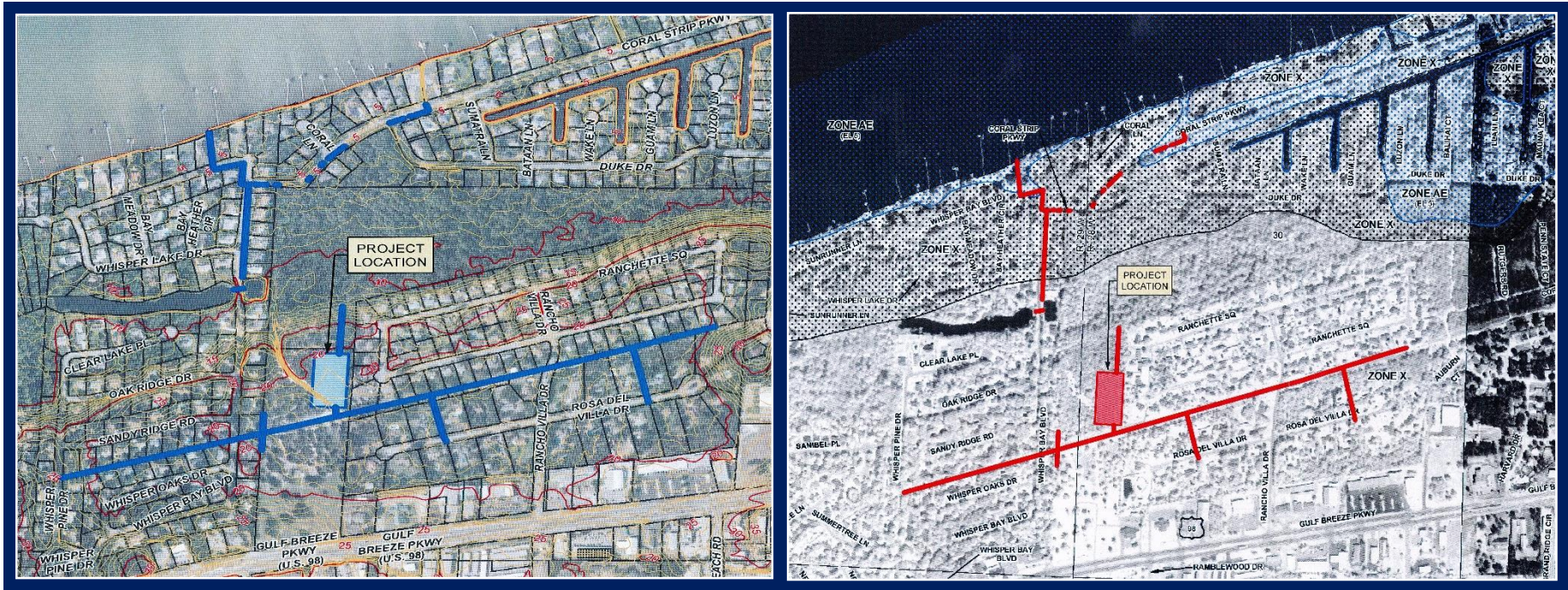
Application, Worksheet and Support Documentation

- ▶ Clear explanation of the purpose of the project, identifying the problem.
- ▶ Detailed Scope of Work identifying the best solution.



Project Review (Con't)

- ▶ Project maps identifying the area (location Map, FIRM Map and topographic Maps)



Project Review (Con't)

- ▶ Project plans, if available.



Project Review (Con't)

- ▶ Project's Budget with a break down of every item that is included on the final project cost.
- ▶ Project's Milestone Schedule clearly identifying the stages of the project until completion.
- ▶ Complete project Worksheet according to the type of project.



Worksheet

DOCUMENTATION
DOCUMENTATION
DOCUMENTATION



DOCUMENTATION
DOCUMENTATION
DOCUMENTATION

- ▶ **Worksheet is a fundamental part of the application.**
- ▶ It will contain all the information related to the project, necessary to run the Benefit Cost Analysis.
- ▶ It is VERY important to make sure all questions are answered.
- ▶ Every figure submitted in the worksheet, will require good support documentation from a credible source.



Project Worksheets

WIND RETROFIT WORKSHEET	
<p>THIS WORKSHEET APPLIES FOR THE FOLLOWING MITIGATION ACTIVITIES:</p> <ul style="list-style-type: none"> - Non-structural Retrofitting of Existing Buildings and Facilities (Ex. Shutters, Roof Hurricane Straps, etc.) - Structural Retrofitting of Existing Buildings (Ex. Code Plus, Load Path, etc.) - Acquisition - Mitigation Reconstruction <p><i>Note: Please make sure you review the eligible activities, depending on the program you are applying for.</i></p>	
<p>IMPORTANT: PLEASE FILL OUT THIS WORKSHEET COMPLETELY. A SEPARATE WORKSHEET IS REQUIRED FOR EACH STRUCTURE TO BE WIND RETROFITTED.</p>	
PROJECT GENERAL INFORMATION	
1	PROJECT NAME
2	OWNER / APPLICANT
3	CONTACT PERSON
	Name:
	Address (Please include City, State, and Zip Code):
	Phone number:
	Email:
4	PROGRAM APPLICATION (FMA, SRL, RFC, HR&G, PA, PDM)
STRUCTURE GENERAL INFORMATION	
5	STRUCTURE TYPE (Please select)
	BUILDING <input type="checkbox"/>
	OTHER <input type="checkbox"/>
	UTILITY <input type="checkbox"/>
6	ADDRESS
7	CITY, STATE AND ZIP
8	COUNTY
9	IS THIS A HISTORIC BUILDING? YES <input type="checkbox"/> NO <input type="checkbox"/>
MITIGATION	
10	MITIGATION TYPE (Please select below)
	SHUTTERS <input type="checkbox"/> LOAD PATH <input type="checkbox"/> ROOF <input type="checkbox"/> CODE PLUS <input type="checkbox"/> ACQUISITION (Only residential) <input type="checkbox"/>
COST ESTIMATION INFO	
11	PROJECT USEFUL LIFE
12	MITIGATION PROJECT COST \$
13	ANNUAL MAINTENANCE COST OF THE PROJECT \$

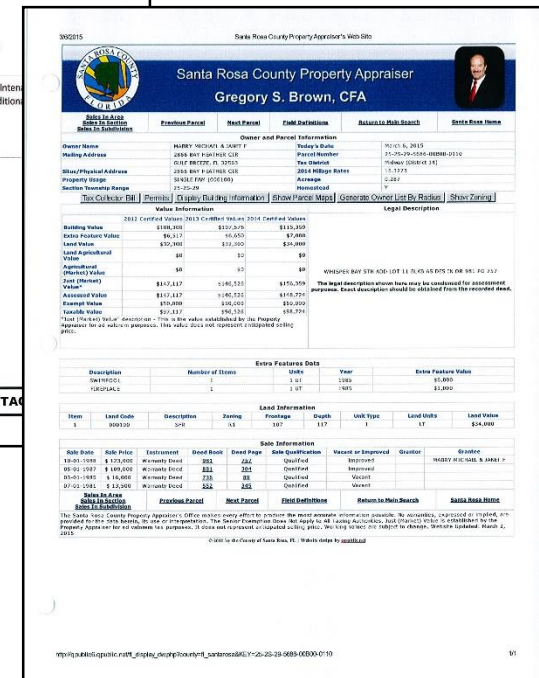
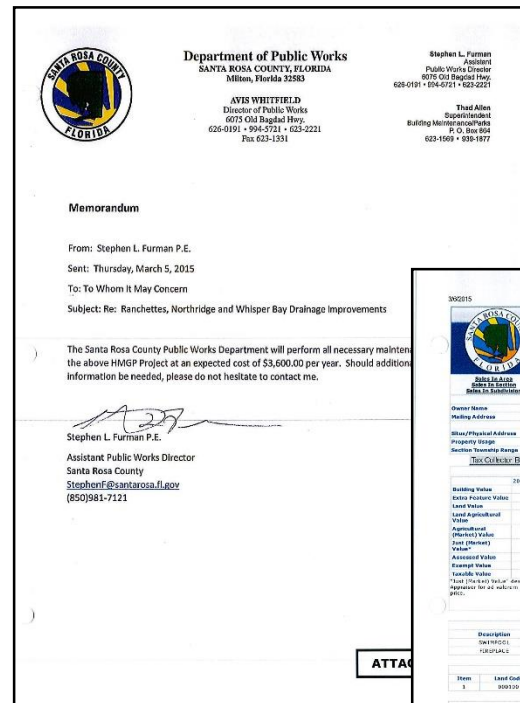
TORNADO WORKSHEET	
SAFE ROOM CONSTRUCTION (New Safe Room or Existing Structure)	
SECTION I-A PROJECT GENERAL INFORMATION	
1	PROJECT NAME
2	OWNER / APPLICANT
3	CONTACT PERSON
	Name:
	Address (Please include City, State and Zip Code):
	Phone number:
	Email:
4	PROGRAM APPLICATION (FMA, SRL, RFC, HR&G, PA, PDM)
SECTION I-B STRUCTURE GENERAL INFORMATION	
5	STRUCTURE TYPE (Please select)
	BUILDING <input type="checkbox"/>
	OTHER <input type="checkbox"/>
	UTILITY <input type="checkbox"/>
6	ADDRESS
7	CITY, STATE AND ZIP
8	COUNTY
9	IS THIS A HISTORIC BUILDING? YES <input type="checkbox"/> NO <input type="checkbox"/>
MITIGATION TYPE	
10	IS THIS A NEW SAFE ROOM OR RETROFIT OF EXISTING PROJECT?
	NEW SAFE ROOM <input type="checkbox"/>
	RETROFIT <input type="checkbox"/>
11	IS THIS A STAND-ALONE OR A PORTION OF AN EXISTING STRUCTURE?
	STAND-ALONE SAFE ROOM <input type="checkbox"/>
	INTERNAL SAFE ROOM <input type="checkbox"/>
12	IS THIS A COMMUNITY OR RESIDENTIAL SAFE ROOM?
	RESIDENTIAL SAFE ROOM <input type="checkbox"/>
	COMMUNITY SAFE ROOM <input type="checkbox"/>
COST ESTIMATION INFO	
13	PROJECT USEFUL LIFE
14	MITIGATION PROJECT COST \$
15	ANNUAL MAINTENANCE COST \$



Support Documentation

- ▶ **MAINTENANCE COST**
 - ▶ Comes from applicant, estimation of future maintenance based on the amount of hours and materials.
 - Only for BCA purposes.

- ▶ **PROPERTY INFORMATION**
 - ▶ Property Appraisal
 - ▶ Adjustment Factor
 - ▶ RS Means
 - ▶ Building Replacement Value Calculator



ATTACH



Support Documentation

- ▶ **PROJECT USEFUL LIFE**
 - ▶ FEMA default value
 - ▶ Manufacturer's specifications

- ▶ **PROJECT COST**
 - ▶ Estimate from Engineering Department
 - ▶ Vendor's Estimate
 - ▶ Management Cost
 - ▶ Administrative Cost

IMPORTANT NOTE: It cannot be a lump sum.

Construction Cost Estimate Worksheet				
Applicant Name		Project Name		
125 Fountain Avenue, L.P.		Liberty Apartments		
Trade/Item	Unit	Quantity	Unit Cost	Total
Division 1: General Requirements				
1 Mobilization	LS		\$20,000.00	\$20,000.00
2 Temporary facilities	LS		\$30,000.00	\$30,000.00
3 Sidewalk Bridge/Safety	LS	1	\$90,000.00	\$90,000.00
4 Dumpsters	EA	85	\$1,100.00	\$93,500.00
5 Engineering and Testing	LS	1	\$75,000.00	\$75,000.00
6 Plans and Specs	LS	1	\$15,000.00	\$15,000.00
7 General Labor	LS		\$80,500.00	\$80,500.00
8				\$0.00
9				\$0.00
10				\$0.00
Division 1 Total				\$404,000.00
Division 2: Sitework				
1 Surveying	LS	1	\$15,000.00	\$15,000.00
2 Clear and grub/drainage	LS	2	\$15,000.00	\$30,000.00
3 Excavation/obstructions	CY	3964	\$50.00	\$198,200.00
4 Shoring/ shoring engineer	LS	775	\$40.00	\$31,000.00
5 Backfilling/Misc Machine days	Days	25	\$1,500.00	\$37,500.00
6 Plantings	EA	90	\$383.00	\$34,470.00
7 Paving/Pavers/fencing/curbs			\$110,678.00	\$110,678.00
8 Sidewalk with removal			88,652	\$88,652.00
9 Site furnishings/play equipment/safety surface			\$54,500.00	\$54,500.00
10				\$0.00
Division 2 Total				\$600,000.00
Division 3: Concrete				
1 Perimeter walls	CY	145	\$550.00	\$79,750.00
2 Interior Walls	CY	85	\$550.00	\$46,750.00
3 Perimeter and interior footings/stairs/misc. footings	CY	414	\$450.00	\$186,300.00
4 Misc. Concrete/rat slab	CY	56	\$400.00	\$22,400.00
5 Precast Concrete Plank	SF	49118	\$15.00	\$736,770.00
6 Precast stairs	FLT	7	\$5,000.00	\$35,000.00
7 Edge stops	LF	5112	\$4.50	\$23,004.00
8 Rebar	LBS	36953	\$1.50	\$55,429.50
9 Pump days	EA	10	\$1,575.00	\$15,750.00
10				\$0.00
Division 3 Total				\$1,201,153.50
Division 4: Masonry				
1 Interior CMU Block	SF	9482	\$14.00	\$132,748.00
2 Exterior Block and Brick	SF	17420	\$31.00	\$540,020.00
3 Precast lintels, sills and bands	LF	2488	\$35.00	\$87,080.00
4 Grouting	SF	7073	\$3.00	\$21,219.00
5 Parapets	LF	575	\$130.00	\$74,750.00
6 Flashing/Scaffold Installation	LS	1	\$24,500.20	\$24,500.20
7 Washdown	LS	21613	\$1.50	\$32,419.50
8				\$0.00
9				\$0.00
10				\$0.00
Division 4 Total				\$912,736.70



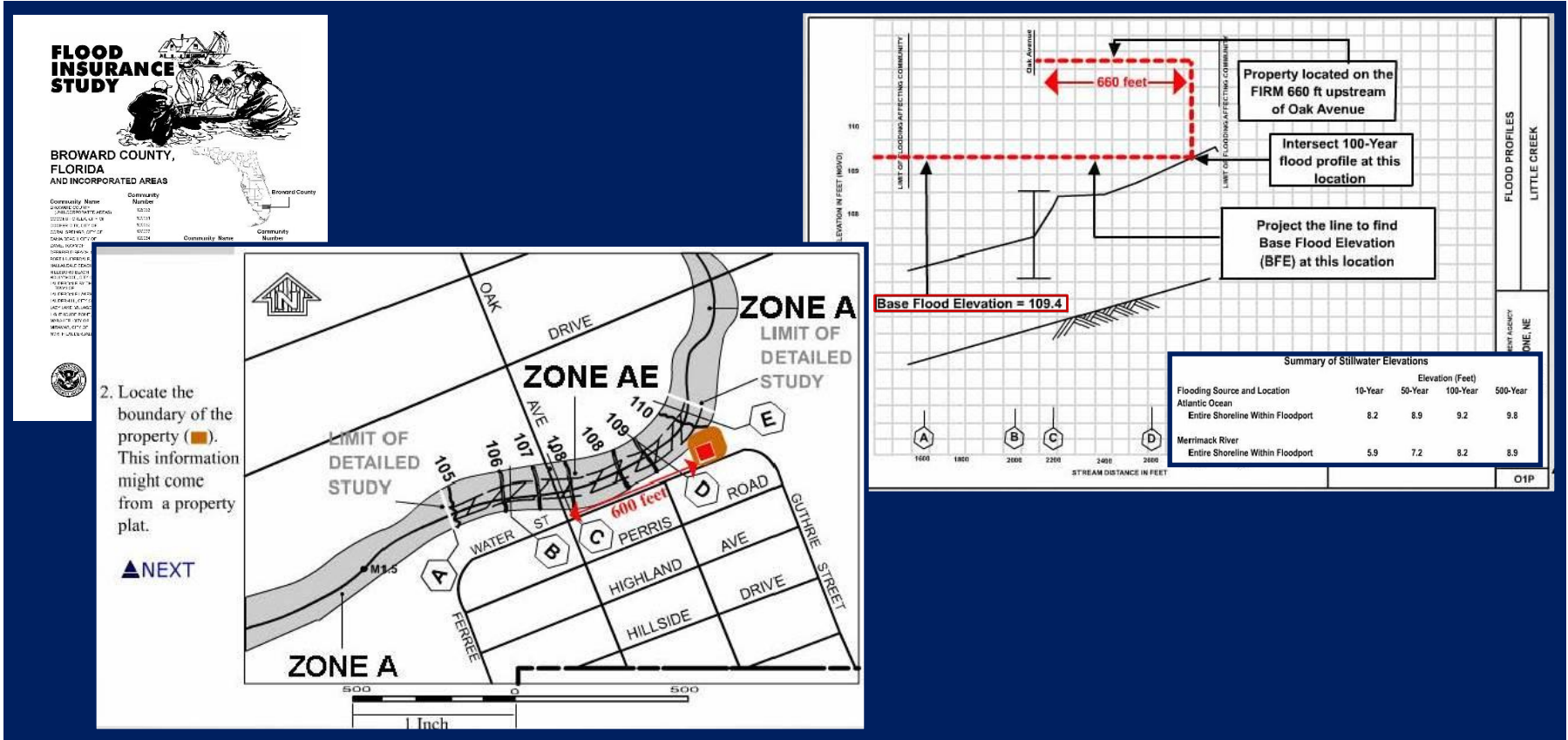
Project Worksheets

FLOOD - DRAINAGE IMPROVEMENTS WORKSHEET	
THIS WORKSHEET APPLIES FOR THE FOLLOWING MITIGATION ACTIVITIES: <ul style="list-style-type: none">- Property Acquisition and Structure Demolition- Property Acquisition and Structure Relocation- Structure Demolition- Mitigation Reconstruction- Dry Flooding of Historic Residential Structures- Dry Flooding of Non-Residential Structures- Minor Localized Flood Reduction Projects- Infrastructure Retrofits- Seal Stabilization <p>Note: Please make sure you review the eligible activities, depending on the program you are applying for.</p>	
IMPORTANT: PLEASE FILL OUT THIS WORKSHEET COMPLETELY. A SEPARATE WORKSHEET IS REQUIRED FOR EACH STRUCTURE TO BE MITIGATED.	
Please select the type of project:	
DRAINAGE IMPROVEMENT <input type="checkbox"/>	DRYFLOOD PROOFING/ FLOOD BARRIER <input type="checkbox"/>
ACQUISITION <input type="checkbox"/>	ELEVATION <input type="checkbox"/>
OTHER <input type="checkbox"/>	If other, please describe:
THIS WORKSHEET ONLY APPLIES IF: FLOOD INSURANCE STUDY IS AVAILABLE (FIS) and / or HYDROLOGY & HYDRAULIC STUDIES ARE AVAILABLE (H&H)	
SECTION I	
SECTION I-A PROJECT GENERAL INFORMATION	
1	PROJECT NAME
2	OWNER / APPLICANT
3	CONTACT PERSON
	Name
	Address (Please include City, State, and Zip Code)
	Phone number:
	(Small)
4	PROGRAM APPLICATION (15A, 55, 57C, 4502, PA, PD&E)
SECTION I-B STRUCTURE GENERAL INFORMATION	
5	STRUCTURE TYPE (Please select)
	BUILDING <input type="checkbox"/>
	OTHER <input type="checkbox"/>
	UTILITY <input type="checkbox"/>
6	ADDRESS
7	CITY, STATE AND ZIP
8	COUNTY
9	IS THIS A HISTORIC BUILDING?
	YES <input type="checkbox"/>
	NO <input type="checkbox"/>
SECTION I-C COST ESTIMATION INFO	
10	PROJECT USEFUL LIFE
11	MITIGATION PROJECT COST
12	ANNUAL MAINTENANCE COST



Samples of Support Documentation

▶ FIS STUDY AND H&H STUDY demonstrating risk



Project Worksheets

DAMAGE FREQUENCY ASSESSMENT WORKSHEET	
THIS WORKSHEET APPLIES FOR THE FOLLOWING MITIGATION ACTIVITIES:	
<ul style="list-style-type: none">- Property Acquisition and Structure Demolition- Property Acquisition and Structure Relocation- Structure Elevation- Mitigation Reconstruction- Dry Flooding of Historic Residential Structures- Dry Flooding of Non-Residential Structures	<ul style="list-style-type: none">- Minor Localized Flood Reduction Projects- Infrastructure Retrofit- Soil Stabilization
Note: Please make sure you review the eligible activities, depending on the program you are applying for.	
IMPORTANT: PLEASE FILL OUT THIS WORKSHEET COMPLETELY. A SEPARATE WORKSHEET IS REQUIRED FOR EACH STRUCTURE TO BE MITIGATED.	
THIS WORKSHEET ONLY APPLIES IF: FLOOD INSURANCE STUDY IS NOT AVAILABLE (FIS) and/or HYDROLOGY & HYDRAULIC STUDIES ARE NOT AVAILABLE (H&H)	
SECTION I	
SECTION I-A PROJECT GENERAL INFORMATION	
1	PROJECT NAME
2	OWNER / APPLICANT
3	CONTACT PERSON
	Name:
	Address (Please include City, State and Zip Code):
	Phone Number:
	Email:
4	PROGRAM APPLICATION (FMA, SR, RFC, HWSF, PA, POM)
SECTION I-B STRUCTURE GENERAL INFORMATION	
5	STRUCTURE TYPE (Please select)
	BUILDING <input type="checkbox"/>
	OTHER (ex. road, bridge, etc.) <input type="checkbox"/>
	UTILITY <input type="checkbox"/>
6	ADDRESS
7	CITY, STATE AND ZIP
8	COUNTY
9	IS THIS A HISTORIC BUILDING? YES <input type="checkbox"/> NO <input type="checkbox"/>
10	PLEASE SELECT PRIMARY USE OF THE BUILDING:
	RESIDENTIAL <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> GOVERNMENT FACILITY <input type="checkbox"/> HOTEL <input type="checkbox"/>
	OFFICE <input type="checkbox"/> RELIGIOUS FACILITIES <input type="checkbox"/> HOSPITAL <input type="checkbox"/> MEDICAL OFFICE <input type="checkbox"/>
	SCHOOLS <input type="checkbox"/> POLICE STATION <input type="checkbox"/> FIRE STATION <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/>
	OTHER <input type="checkbox"/> Please describe:



Samples of Support Documentation

▶ HISTORICAL DAMAGES

- ▶ Photographs of the flooding event at the specific location.
 - ▶ Street, neighborhood pictures.
 - ▶ Pictures of home damages.
- ▶ Insurance Claims and payments
- ▶ Receipts from past repairs.
- ▶ Homeowners affidavits
 - ▶ Specific date
 - ▶ Specific flood depth
 - ▶ Duration of the flood



Samples of Support Documentation

▶ HISTORICAL DAMAGES

- ▶ Utility Outage
 - ▶ Utility control structure
- ▶ Road closures
 - ▶ Affecting the area
 - ▶ Traffic count in the affected area
- ▶ Loss of wages from residents in the area.
- ▶ 911 phone call records.
- ▶ Expenses from City or County while attending the emergency.



Samples of Support Documentation

▶ EXPECTED DAMAGES

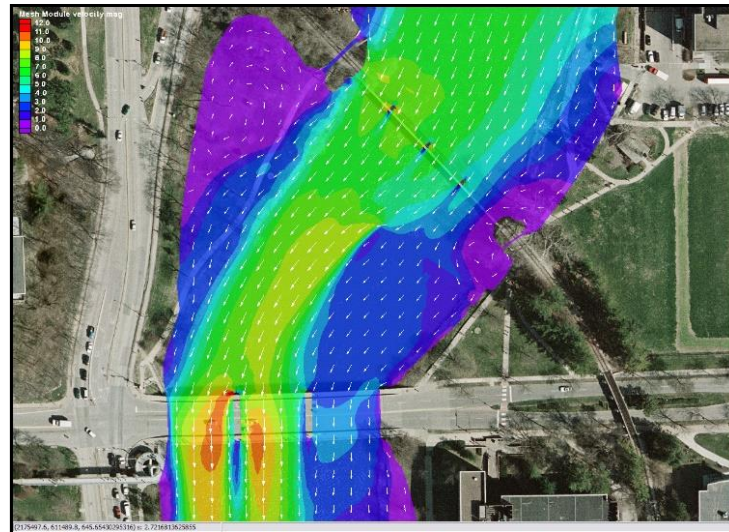
▶ Property First Floor elevation

- ▶ Survey
- ▶ Lidar
- ▶ Others



▶ H&H modeling results

- ▶ Existing conditions
- ▶ After mitigation condition
- ▶ Level of protection
- ▶ Preliminary designs



Samples of Support Documentation

RANCHETTES SUBDIVISION - MAXIMUM STAGES (feet) - Existing Conditions -

Address	FFE	Critical Duration Storm Frequency Elevations						
		2-Year	3-Year	5-Year	10-Year	25-Year	50-Year	100-Year
2998 Ranchette Square	17.73	15.98	16.30	16.57	16.87	17.19	17.55	17.76
3011 Ranchette Square	18.52	18.51	18.53	18.56	18.59	18.65	18.72	18.76
3012 Ranchette Square	18.16	18.51	18.53	18.56	18.59	18.65	18.72	18.76
3013 Ranchette Square	18.57	18.51	18.53	18.56	18.59	18.65	18.72	18.76
3014 Ranchette Square	18.41	18.51	18.53	18.56	18.59	18.65	18.72	18.76
3053 Rosa Del Villa Drive	18.58	18.51	18.53	18.56	18.59	18.65	18.72	18.76
3061 Rosa Del Villa Drive	18.65	18.51	18.53	18.56	18.59	18.65	18.72	18.76
2822 Whisper Oaks Drive	19.02	19.31	19.35	19.36	19.39	19.41	19.46	19.48

RANCHETTES SUBDIVISION - FLOOD DEPTH (feet) - Existing Conditions -

Address	FFE	Critical Duration Storm Frequency Elevations						
		2-Year	3-Year	5-Year	10-Year	25-Year	50-Year	100-Year
2998 Ranchette Square	17.73	1.75	1.43	1.16	0.86	0.54	0.18	-0.03
3011 Ranchette Square	18.52	0.01	-0.01	-0.04	-0.07	-0.13	-0.20	-0.24
3012 Ranchette Square	18.16	-0.35	-0.37	-0.40	-0.43	-0.49	-0.56	-0.60
3013 Ranchette Square	18.57	0.06	0.04	0.01	-0.02	-0.08	-0.15	-0.19
3014 Ranchette Square	18.41	-0.10	-0.12	-0.15	-0.18	-0.24	-0.31	-0.35
3053 Rosa Del Villa Drive	18.58	0.07	0.05	0.02	-0.01	-0.07	-0.14	-0.18
3061 Rosa Del Villa Drive	18.65	0.14	0.12	0.09	0.06	0.00	-0.07	-0.11
2822 Whisper Oaks Drive	19.02	-0.29	-0.33	-0.34	-0.37	-0.39	-0.44	-0.46

RANCHETTES SUBDIVISION - MAXIMUM STAGES (feet) - Proposed Conditions -

Address	FFE	Critical Duration Storm Frequency Elevations						
		2-Year	3-Year	5-Year	10-Year	25-Year	50-Year	100-Year
2998 Ranchette Square	17.73	14.87	15.13	15.29	15.44	15.73	15.91	16.01
3011 Ranchette Square	18.52	15.45	15.92	16.38	17.13	17.62	18.10	18.32
3012 Ranchette Square	18.16	15.45	15.92	16.38	17.13	17.62	18.10	18.32
3013 Ranchette Square	18.57	15.45	15.92	16.38	17.13	17.62	18.10	18.32
3014 Ranchette Square	18.41	15.45	15.92	16.38	17.13	17.62	18.10	18.32
3053 Rosa Del Villa Drive	18.58	15.45	15.92	16.38	17.13	17.62	18.10	18.32
3061 Rosa Del Villa Drive	18.65	15.45	15.92	16.38	17.13	17.62	18.10	18.32
2822 Whisper Oaks Drive	19.02	17.13	17.64	18.06	18.28	18.56	18.86	19.06

RANCHETTES SUBDIVISION - FLOOD DEPTH (feet) - Proposed Conditions -

Address	FFE	Critical Duration Storm Frequency Elevations						
		2-Year	3-Year	5-Year	10-Year	25-Year	50-Year	100-Year
2998 Ranchette Square	17.73	2.86	2.60	2.44	2.29	2.00	1.82	1.72
3011 Ranchette Square	18.52	3.07	2.60	2.14	1.39	0.90	0.42	0.20
3012 Ranchette Square	18.16	2.71	2.24	1.78	1.03	0.54	0.06	-0.16
3013 Ranchette Square	18.57	3.12	2.65	2.19	1.44	0.95	0.47	0.25
3014 Ranchette Square	18.41	2.96	2.49	2.03	1.28	0.79	0.31	0.09
3053 Rosa Del Villa Drive	18.58	3.13	2.66	2.20	1.45	0.96	0.48	0.26
3061 Rosa Del Villa Drive	18.65	3.20	2.73	2.27	1.52	1.03	0.55	0.33
2822 Whisper Oaks Drive	19.02	1.89	1.38	0.96	0.74	0.46	0.16	-0.04



Samples of Support Documentation

▶ DAMAGE CALCULATION

- ▶ Computes affected properties using Building Replacement Value and the depth of the flooding to calculate:
- ▶ Building Damage
- ▶ Content Damage
- ▶ Displacement
- ▶ Loss of function

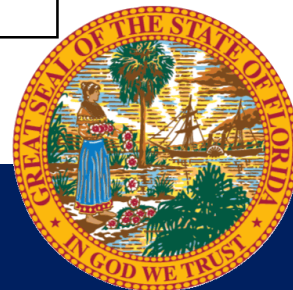
RANCHETTES SUBDIVISION – STRUCTURE DAMAGES BEFORE MITIGATION

FIA Tables		Building Damages Before Mitigation								
Interpolation	Depth	H1	H2	H3	H4	H5	H6	H7	H8	H9
Building		\$157,000	\$158,613	\$166,163	\$171,948	\$169,664	\$176,800	\$272,838	\$192,120	
x	y									
-1	0.00%									
-0.89	1.28%	\$1,070.03								
-0.54	4.14%	\$6,602.83								
-0.18	7.38%	\$11,681.47								
-0.14	7.74%							\$21,117.95		
-0.12	7.92%							\$21,608.77		
-0.09	8.19%							\$22,845.43		
-0.07	8.37%						\$14,721.99			
-0.06	8.49%				\$16,548.80			\$23,082.78		
-0.05	8.55%						\$15,036.60			
-0.04	8.64%									
-0.02	8.82%									
-0.01	8.91%		\$13,989.67							
0	9.00%									
0.01	9.05%		\$14,775.17							
0.02	9.10%									
0.03	9.15%	\$14,283.01								
0.04	9.20%		\$14,513.09							
0.07	9.35%		\$14,792.40							
0.08	9.40%									
0.1	9.50%									
0.11	9.55%									
0.12	9.60%									
0.13	9.65%		\$15,278.53							
0.14	9.70%									
0.15	9.75%									
0.18	9.80%									
0.19	9.85%									
0.2	10.00%		\$15,781.99							
0.24	10.20%		\$15,861.30							
0.29	10.45%									
0.31	10.55%									
0.33	10.65%									
0.34	10.70%									

0.35	10.75%			\$17,759.44		\$16,288.98				
0.37	10.85%			\$17,612.51					\$20,645.07	
0.39	10.95%								\$21,077.80	
0.4	11.00%			\$18,134.85						
0.43	11.15%			\$18,277.61						
0.44	11.20%								\$23,528.11	
0.46	11.30%								\$21,780.24	
0.49	11.45%			\$18,970.28						
0.56	11.90%			\$19,045.56						
0.6	12.00%			\$19,667.21						
1	14.00%									

RANCHETTES SUBDIVISION – TOTAL STRUCTURE DAMAGES BEFORE MITIGATION

BUILDING DAMAGES TOTALS BEFORE MITIGATION						
2 yrs	3 yrs	5 yrs	10 yrs	25 yrs	50 yrs	100 yrs
\$118,351	\$120,391	\$122,987	\$127,139	\$138,014	\$145,153	\$160,289



FDEM Mitigation Assistance

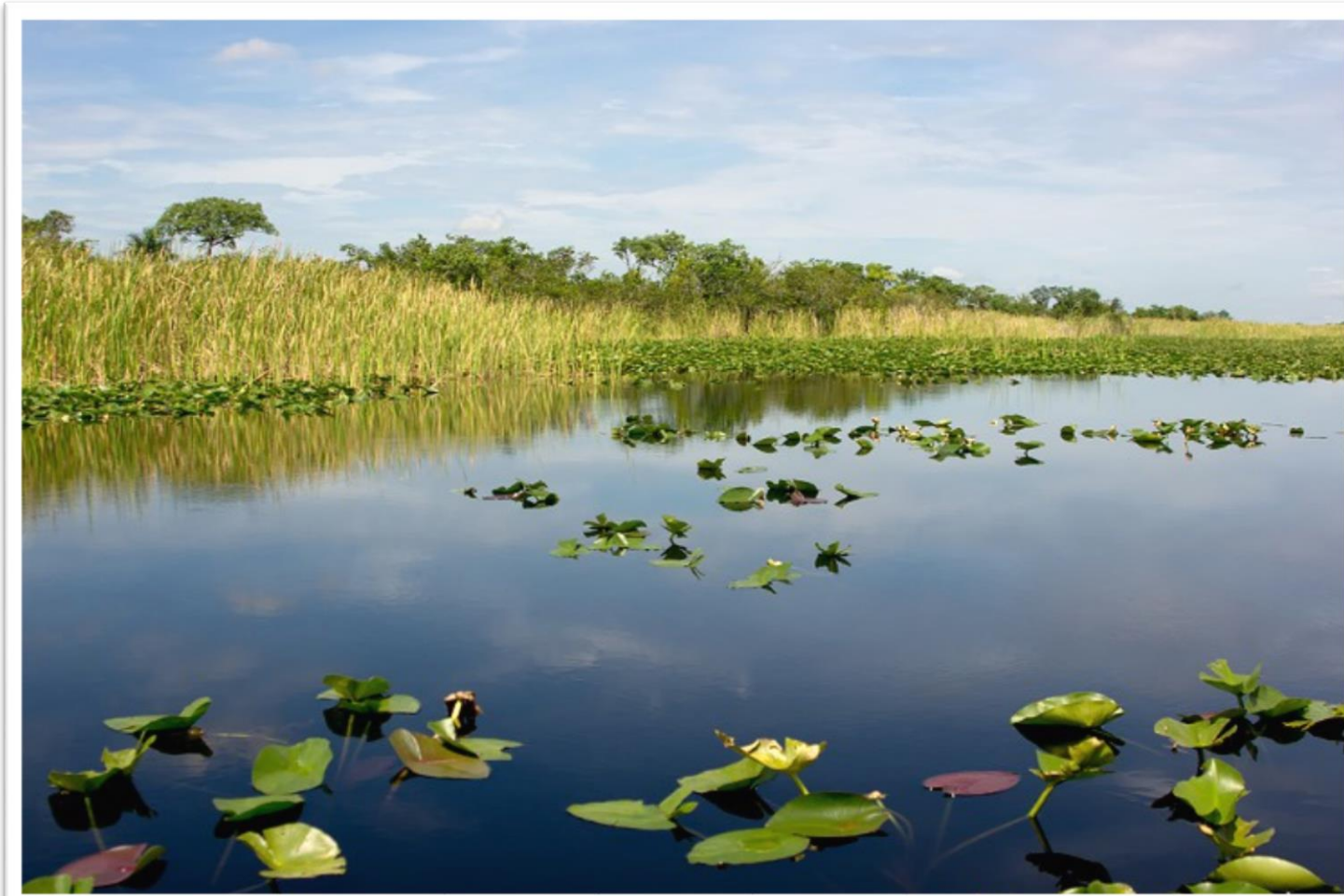
- ▶ Courtesy Application Reviews
- ▶ Courtesy preliminary BCA's
- ▶ Workshops
- ▶ Courtesy site visits for potential projects
- ▶ Technical support with BCA information collection
- ▶ Review of potential projects recommending best program for funding.
- ▶ Work on applications ahead to have them ready for next available funding.



Questions?



Environmental Review



THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



Environmental Review

National Environmental Policy Act (NEPA) establishes a national policy for the protection and maintenance of the environment by providing a process which all federal agencies must follow.



NEPA

- ▶ Clean Water Act
- ▶ Clean Air Act
- ▶ Endangered Species Act
- ▶ Farmland Protection Policy Act
- ▶ Wild and Scenic Rivers Act
 - (Wekiva and Loxahatchee)
- ▶ National Historic Preservation Act
- ▶ Fish and Wildlife Coordination Act
- ▶ Magnuson-Stevens Fishery Conservation and Management Act
- ▶ Coastal Barrier Resources Act
- ▶ Coastal Zone Management Act
- ▶ Migratory Bird Treaty Act
- ▶ **Executive Orders**



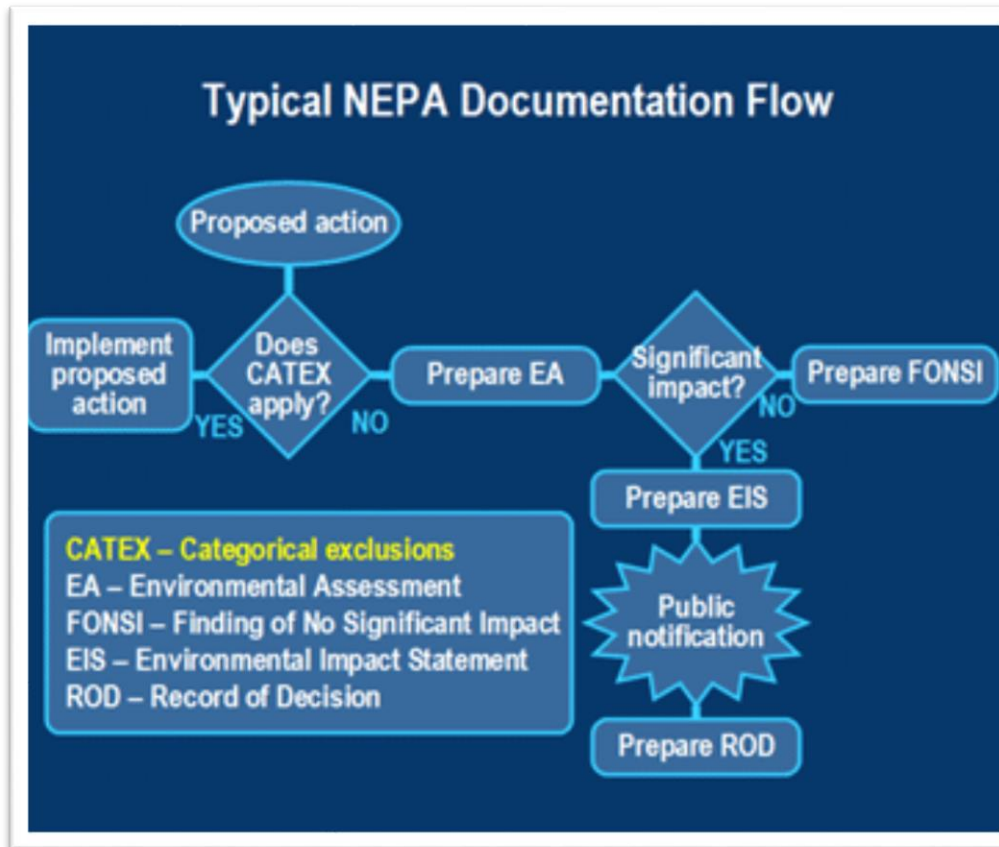
NEPA

Executive Orders

- 11988: Floodplain Management
- 11990: Wetland Protection
- 13175: Consultation and
Coordination with Indian
Tribal Governments
- 12988: Environmental Justice



Environmental NEPA



Statutory Exclusion – Emergency Actions

Categorical Exclusion – No significant impact (previously determined)

Environmental Assessment – Brief review to determine effect

Environmental Impact Statement – Extensive review analyzing impact



Application –Walk Through

Acquisition/Demolition example

STATE OF FLORIDA – HAZARD MITIGATION GRANT PROGRAM APPLICATION

THIS SECTION FOR STATE USE ONLY

FEMA- 4177-DR-FL Standard HMGP 5% Initiative Application Application Complete
 Standard FMA Initial Submission or Re- Submission

Support Documents **Eligible Applicant** **Project Type(s)**
 Conforms w/ State 405 Plan State or Local Government Wind
 In Declared Area Private Non-Profit (Tax ID Received) Flood
 Statewide Recognized Indian Tribe or Tribal Organization Other: _____

Community NFP Status: CMI Not Applicable Reviewer Phone#: _____
 Participating Community ID#: _____ Reviewer Fax#: _____
 In Good Standing Non-Participating CR S Reviewer E-Mail: _____
State Application ID: _____ Date Application Received: _____
State Reviewer: _____
Signature: _____ Date: _____



This application is for all Federal Emergency Management Agency (FEMA Region IV) Hazard Mitigation Grant Program (HMGP) projects. Please complete ALL sections and provide the documents requested. If you require technical assistance with this application, please contact your State Emergency Management Division at (850) 922-3944.

A. To Fill Out This Application: Complete all sections that correspond with the type of proposed project

- General Application Sections:** All applicants must complete these sections
- Environmental Review:** All applicants must complete these sections
- Maintenance Agreement:** All applications involving public property, public ownership, or management of property
- Damage Frequency Assessment Worksheet:** Acquisition, Elevation, Floodproofing (if FIS and H&H are unavailable) -- one worksheet per structure
- Flood-Drainage Improvement Worksheet:** Acquisition, Elevation, Floodproofing (if FIS and H&H are available) -- one worksheet per structure
- Tornado Worksheet:** Safe Room Projects only
- Wind Retrofit Worksheet:** Wind retrofit projects only -- one worksheet per structure
- Request for Public Assistance Form:** FEMA Form 90-49 (Request for Public Assistance); All applicants must complete, if applicable. If project type is Acquisition, these forms must be completed.
- Acquisition Forms:** (Only one of the two Notice of Voluntary Interest forms is necessary.)
 Model Statement of Assurances for Property Acquisition Projects
 Declaration and Release
 Notice of Voluntary Interest (Town Hall Version)
 Notice of Voluntary Interest (Single Site Version)
 Statement of Voluntary Participation
 FEMA Model Deed Restriction Language
- Application Completeness Checklist:** All applicants are recommended to complete this checklist

B. Applicant Information

FEMA _____ -DR-FL DISASTER NAME: _____ Ex. FEMA-1699-DR-FL, Hurricane Wilma

Title / Brief Descriptive Project Summary: _____

1. Applicant (Organization): _____

2. Applicant Type:
 State or Local Government Recognized Native American Tribe Private Non-Profit

Form No. HMGP 001, Eff. 06/2012



Application – Project Description

B. Project Description, Scope of Work, and Protection Provided (Must be Completed in Detail)

1. Describe, in detail, the existing problem, the proposed project, and the scope of work. Explain how the proposed project will *solve* the problem(s) and provide the level(s) of protection described in Part A. Also, if available, attach a vendor's estimate and/or a contractor's bid for the scope of work. ***Please ensure that each proposed project is mitigation and not maintenance.***

2. Description of the existing problems: The structure at 123 Main St, Anytown, FL, is a single family, slab on grade structure subject to repetitive flood loss as defined by the National Flood Insurance Program. The NFIP claims data indicates that the house flooded in 2005, 2008 and 2011. The house flooded again during the 2014 flood event. Due to the road elevation, the water runs onto the property. When the drainage retention area fills up, it causes the water to run onto the surrounding properties. This creates a health and safety issue for the residents.



Application – Project Description

3. Describe the type(s) of protection that the proposed project will provide: This acquisition will return flood prone property to open space and will prevent the flooding of the houses on either side of the property. Acquiring this property will allow the water to seep into the open ground, which will help protect neighbors from flooding during high rain events.

4. Scope of Work (describe in detail what you are planning to do): The scope of work for this project is to acquire the Smith residence located at 123 Main Street, Anytown, FL 32456, demolish the structure, remove debris, abandon the wetland septic tank, disconnect all utilities and conduct site restoration. The land will be converted to open space and deed restricted as set forth in FEMA program requirements as described in 44 CFR 206.434 (e). The completed work shall comply with all Federal, State and Local Rules and Regulations.

5. Describe any other on-going or proposed projects in the area that may impact, positively or negatively, the proposed HMGP or FMA project: None known



Application – Location

Section II. Project Location (Fully describe the location of the proposed project.)

A. Site

1. Describe the physical location of this project, including street numbers (or neighborhoods) and zip codes; and if available, please provide precise longitude and latitude coordinates for the site utilizing a hand-held global positioning system (GPS) unit or the equivalent: 123 Main St. Anytown, FL 32456

28.489144 - 82.594713

← **Latitude and Longitude must be in DECIMAL DEGREES format**

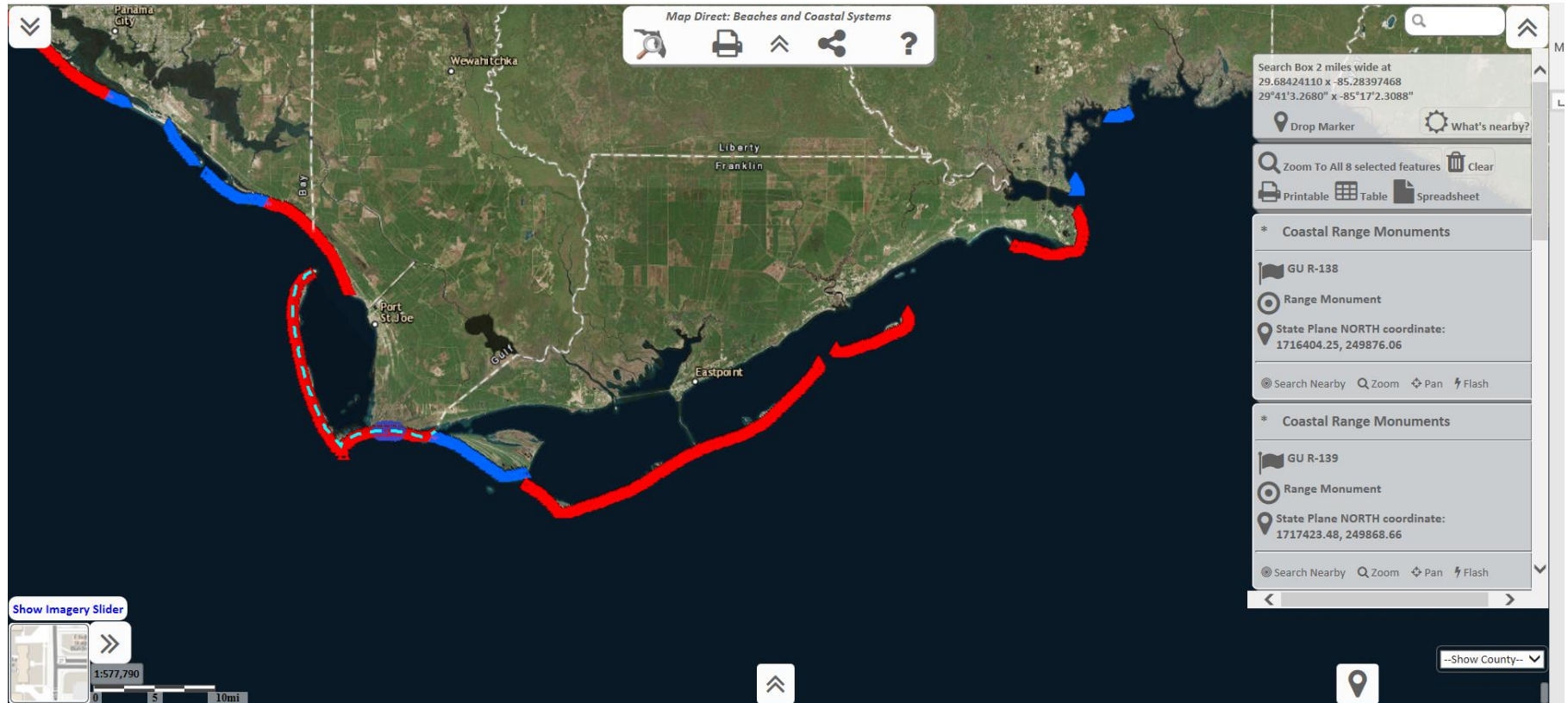
1. Title Holder: Acme Home Property Management Inc.
2. Is the project site seaward of the Coastal Construction Control Line (CCCL)? YES NO

To determine if the project area is seaward of the CCCL go to <http://ca.dep.state.fl.us/mapdirect/?focus=beaches>



FDEP Beaches and Coastal Systems

<http://ca.dep.state.fl.us/mapdirect/?focus=beaches>



THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



Application - FIRM

B. Flood Insurance Rate Map (FIRM) showing Project Site

Attach two (2) copies of the FIRM map, a copy of the panel information from the FIRM, and, if available, the Floodway Map. *FIRM maps are required for this application (if published for your area). Also, all attached maps must have the project site and structures clearly marked on the map.* FIRMs are typically available from your local floodplain administrator who may be located in a planning, zoning, or engineering office. Maps can also be ordered from the Map Service Center at 1-800-358-9616. For more information about FIRMs, contact your local agencies or visit the FIRM site on the FEMA Web-page at <https://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1>

Using the FIRM, determine the flood zone(s) of the project site (Check all zones in the project area).

(See FIRM legend for flood zone explanations) (A Zone must be identified)

VE or V 1-30

AE or A 1-30

AO or AH

A (no base flood elevation given)

B or X (shaded)

C or X (unshaded)

Floodway

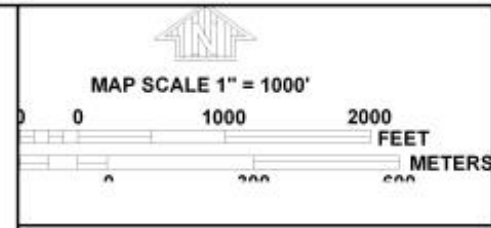
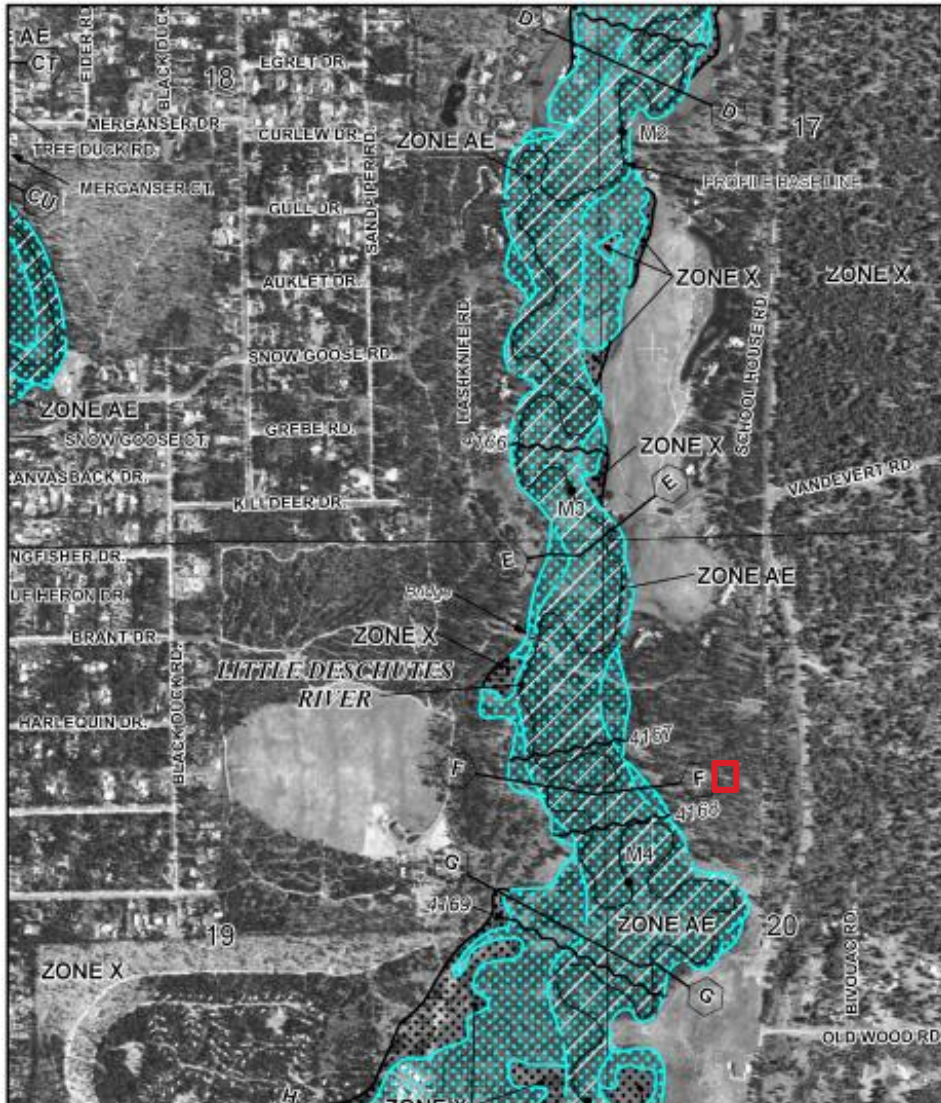
Coastal Barrier Resource Act (CBRA) Zone (Federal regulations strictly limit Federal funding for projects in this zone. Please coordinate with your state agency before submitting an application for a CBRA Zone project).

If the FIRM Map for your area is not published, please attach a copy of the Flood Hazard Boundary Map (FHBM) for your area, with the project site and structures clearly marked on the map.

<https://msc.fema.gov/portal>



FIRM



NFIP PANEL 1130E

FIRM
FLOOD INSURANCE RATE MAP
DESCHUTES COUNTY,
OREGON
AND INCORPORATED AREAS

PANEL 1130 OF 2250
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS	COMMUNITY	NUMBER	PANEL	SUFFIX
	DESCHUTES COUNTY UNINCORPORATED AREAS	41605	1130	E

Notes to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
41017C1130E

MAP REVISED
SEPTEMBER 28, 2007

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov/



FIRM

- ▶ Zones A, AO, AH, A1-30, AE, A99, AR, AR/A1-30, AR/AE, AR/AO, AR/AH, AR/A, VO, V1-30, VE, and V
 - Consult with local floodplain administrator
 - Proof of consultation required prior to project approval
 - FEMA Floodplain Administrator List can be found on floridadisaster.org
 - Public Notice Required



Application –Maps and Photographs

C. City or County Map with Project Site and Photographs

- Attach a copy of a city or county scale map (large enough to show the entire project area) with the project site and structures marked on the map.
- Attach a USGS TOPO map with project site *clearly* marked on the map.
- For **acquisition** or **elevation** projects, include copy of Parcel Map (Tax Map, Property Identification Map, etc.) showing each property to be acquired. The map should include the Tax ID numbers for each parcel, if possible.
- Attach photographs (a minimum of 2 photographs) for each project site per application. The photographs should be representative of the project area, including any relevant streams, creeks, rivers, etc., and drainage areas, which affect the project site or will be affected by the project. For each structure, please include the following angles: front, back and both sides.

Please provide all of these items **DIGITALLY**, if possible



Maps and Photographs

- ▶ Attach a copy of a city or county scale map with project site and structures marked
 - Google Earth
 - Google Maps: <https://www.google.com/maps/>
 - NEPA Assist:
<http://nepassisttool.epa.gov/nepassist/entry.aspx>



Maps and Photographs



Drainage Location Map
Example



Maps and Photographs



Location Map
Example Demolition

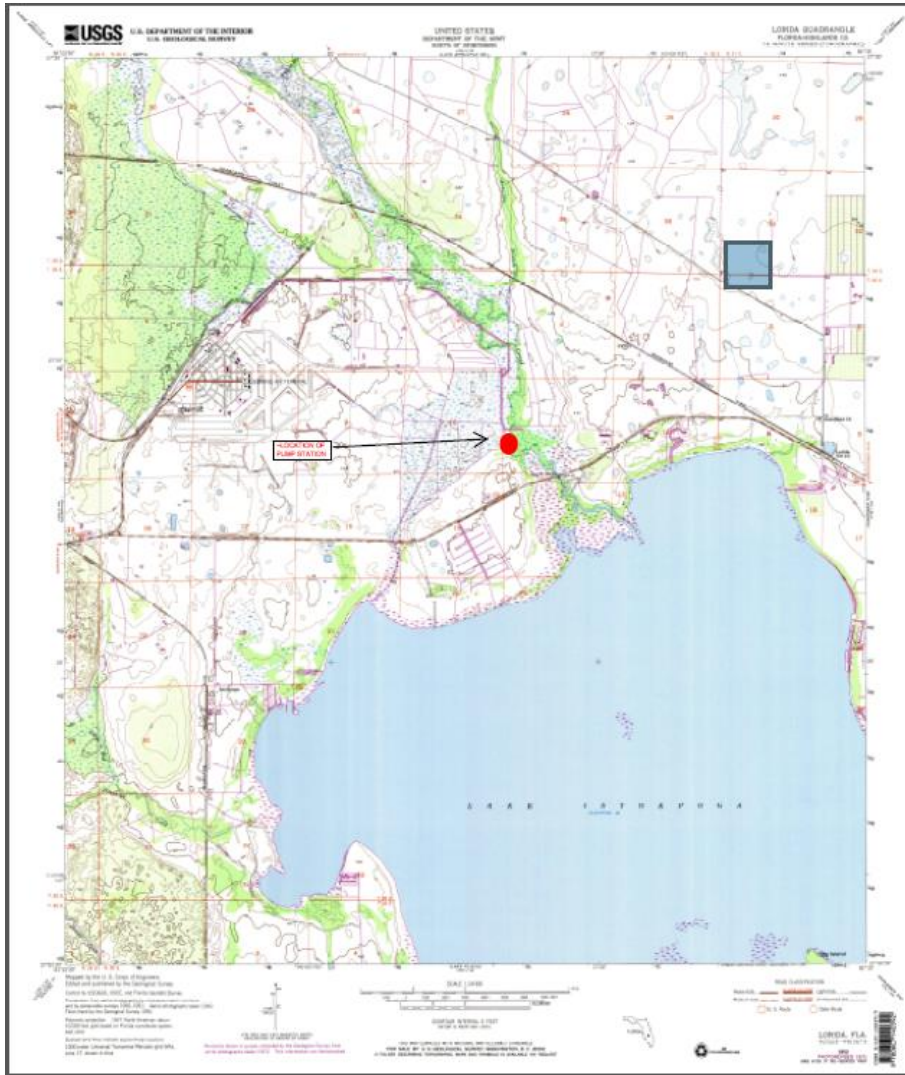


Maps and Photographs

- ▶ Attach USGS TOPO map with project site clearly marked
 - Google Earth
 - NEPA Assist
 - USGS The National Map Viewer:
<http://viewer.nationalmap.gov/viewer/>



Maps and Photographs

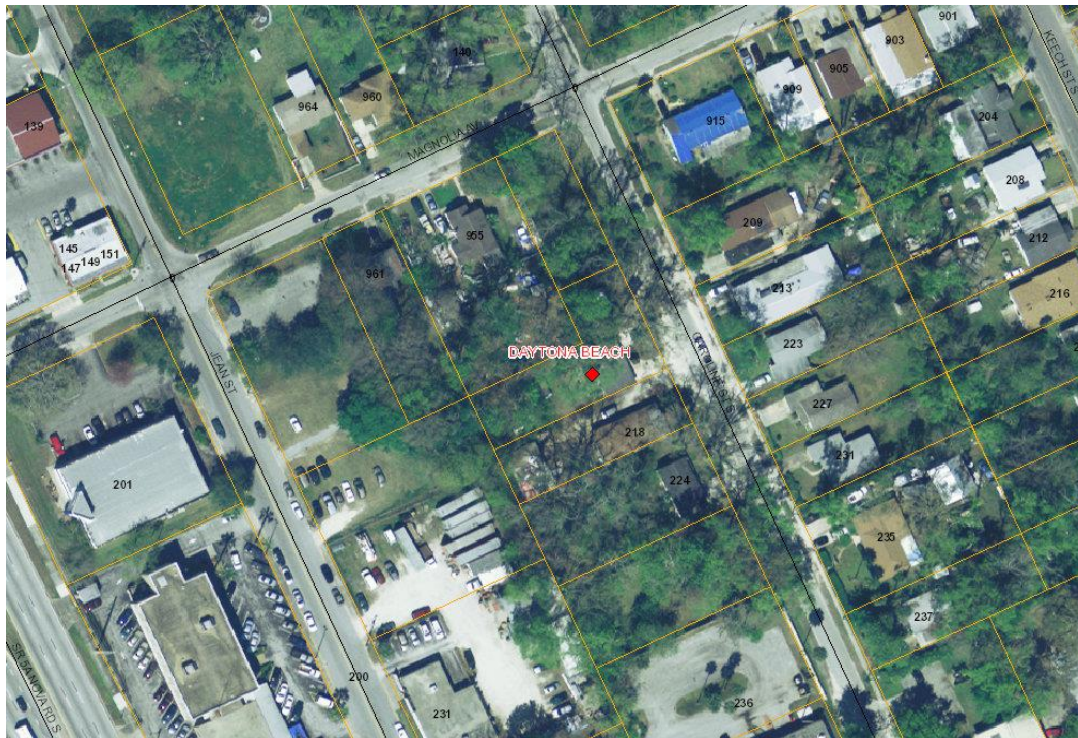


TOPO Map Example
Demolition



Maps and Photographs

- ▶ For acquisition or elevation projects, include copy of Parcel Map
 - Local Property Appraiser's office



Maps and Photographs

- ▶ Attach photographs for each project site. Photographs should be representative of the project area, including any streams, creeks, rivers, etc. and drainage areas that affect the project site or will be affected by the project.
 - All four sides of structure
 - **All** areas of ground disturbance
 - Upstream/downstream (drainage)
 - **Dry Conditions**



Maps and Photographs



Photograph #1 – Existing [redacted] Subdivision control structure (upstream view).



Photograph #2 – Existing [redacted] Subdivision control structure (downstream view).

Examples of Good Photographs Demolition and Drainage

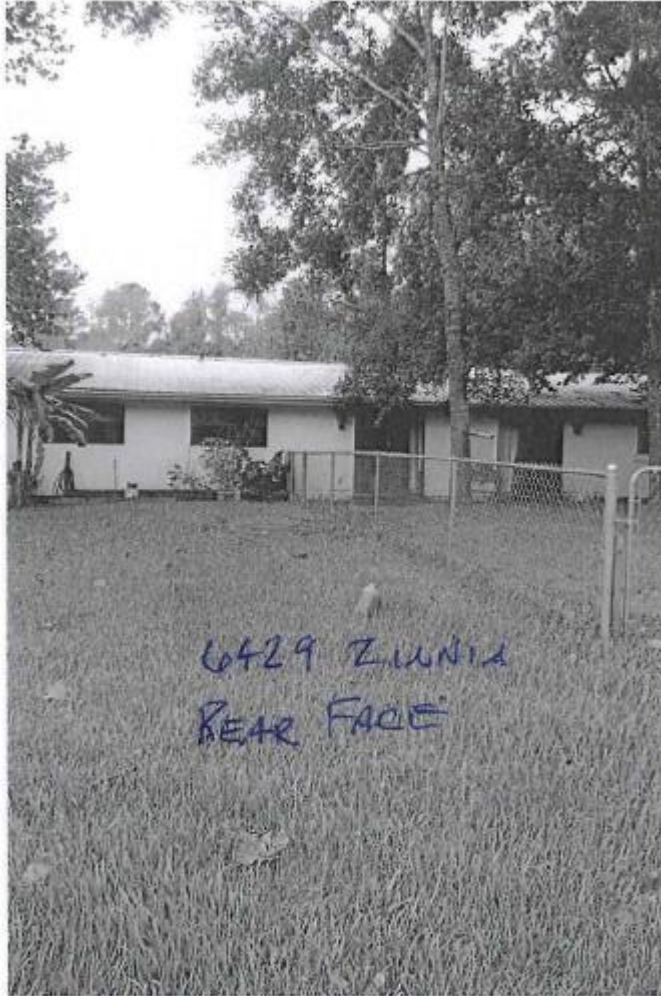


123 Main St facing North



Maps and Photographs

Examples of Bad Photographs



Application – Section IV

A. The following information is required for the Environmental and Historic Preservation review:

All projects must have adequate documentation to determine if the proposed project complies with NEPA and associated statutes. The State Environmental Staff provide comprehensive NEPA technical assistance for applicants, with their consent, to complete the NEPA review. The type and quantity of NEPA documents required to make this determination varies depending upon the project's size, location, and complexity. However, at a minimum, please provide the applicable documentation from this section to facilitate the NEPA compliance process.

- Detailed project description, scope of work, and budget/costs (Section I and Section III of this application).
- Project area maps with project site and staging area marked (Section II, part B & C of this application).
- Project area/structure photographs (Section II, part C of this application).
- Preliminary project plans.
- Project alternatives description and impacts (Section IV of this application).
- Please complete the applicable project worksheets. Dates of construction are required for all structures.
- Environmental Justice – Attach documents regarding evaluation (required) and satisfactory resolution (if necessary) of Environmental Justice issues (Highly Disproportionate, Adverse Impacts [effects] on Minority or Low Income Populations.) Documents can include public meeting records, media reports, letters from interested persons and groups, studies on population, ethnic groups, quality of life, housing, economics, transportation, public services, schools, public health, recreation, voting, etc.
- Provide any applicable information or documentation referenced on the *Information and Documentation Requirements by Project Type* (p. 10 of this application).



Application – E.O. 12898

B. Executive Order 12898, Environmental Justice for Low Income and Minority Population

Are there low income or minority populations in the project area or adjacent to the project area? If yes, please describe any disproportionate and adverse effects to these populations.

No minority population in area: Anytown FL 23.5% Florida 21.9%

Low income population in project area: Anytown FL 20.3% Florida 15.6%

Information accessed November 3, 2014 on American FactFinder

No disproportionately high and adverse impact on low income population

To help evaluate the impact of the project, please indicate below any other information you are providing:

- Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.
- Attached materials or additional comments.

← Attach documentation of source



E.O. 12898

- ▶ **Minority = % non-white (alone)**
 - Minority population in area if % non-white is higher than state average

- ▶ **Low Income = % of people below poverty line**
 - Low income population in area if poverty level higher than state average.



E.O. 12898

- ▶ U.S. Census Bureau – American Fact Finder

<http://factfinder2.census.gov>



▼ Community Facts

Find popular facts (population, income, etc.) and frequently requested data about your community.

Enter a state, county, city, town, or zip code:

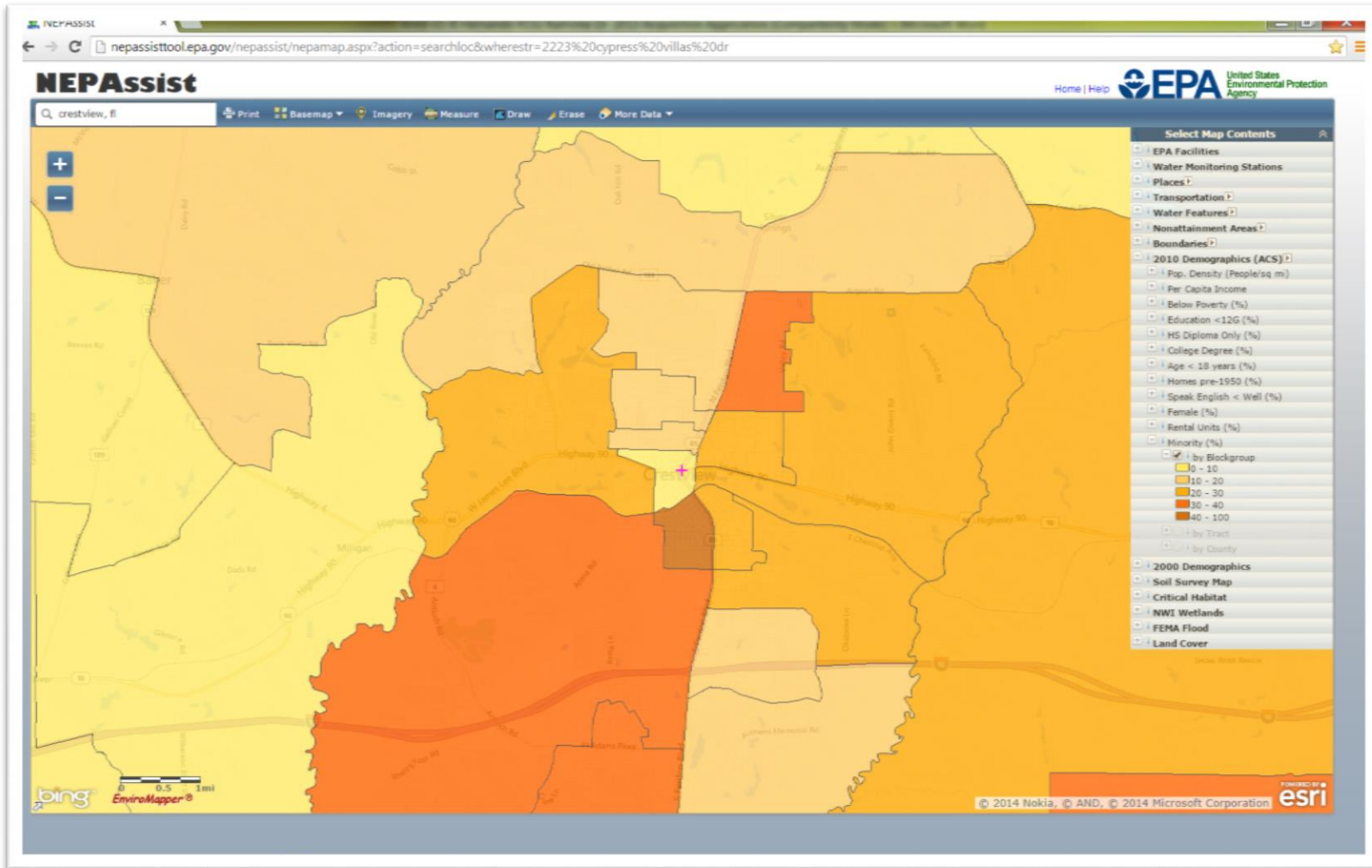
▶ Guided Search

▶ Advanced Search

▶ Download Center



NEPA Assist Tool



THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



Application- Tribal Consultation

C. Information required for Tribal Consultations

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effect of their undertakings on historic properties. The NHPA requires that agencies must complete this process prior to the expenditure of any Federal funds on the undertaking. A Tribal Consultation is required for any project disturbing ground or moving soil, including but not limited to: drainage projects; demolition; construction; elevation; communication towers; tree removal; utility improvements.

1. Describe the current and future use of the project location. A land use map may be provided in lieu of a written description.

The current land use of the project location is residential with low intensity. Future land use is residential with minimum intensity. A future land use map has been provided.

2. Provide information on any known site work or historic uses for project location.

The single family residence was built in 1984 in a newly developed community. There is no previous known use of the project area. All previous site work includes the building and maintenance of a private, single family, residential home. The town's historic district is located 1.5 miles South; a map has been provided.

Attach a copy of a city or county scale map (large enough to show the entire project area) with the horizontal limits (ft.) and vertical depths (sq. ft.) of all anticipated ground disturbance.



Tribal Consultation



Ground disturbance map should include:

Horizontal limits (ft.) and vertical depth of all anticipated ground disturbance.

Street address and geographic latitude/longitude of the construction area.

Geographic latitude/longitude of staging areas.



Activities That May Require Tribal Consultation

- ▶ Any project with 3” or more of ground disturbing activities, including but not limited to:
 - Drainage projects
 - Demolition
 - Elevation
 - Communication towers
 - Construction
 - Tree removal
 - Utility improvements



Application - Alternative Actions

D. Alternative Actions

The NEPA process requires that at least two alternative actions be considered that address the same problem/issue as the proposed project. In this section, list **two feasible** alternative projects to mitigate the hazards faced in the project area. One alternative is the “No Action Alternative.”

1. No Action Alternative

Discuss the impacts on the project area if no action is taken.

If no action is taken the area will experience flooding worse than the past. If a higher level of storm event occurs, the area will experience flooding worse than in the past. Also, as new development occurs, the minor events will become more frequent and will flood to higher levels due to increased impervious surface areas. With the increased development and heavier rainfall event, it is likely that the flooding will extend to additional structures in the neighborhood, compounding the existing problem.



Alternative Actions

2. Other Feasible Alternative

Discuss a feasible alternative to the proposed project. This could be an entirely different mitigation method or a significant modification to the design of the current proposed project. Complete *all* of parts **a-e** (below) and include engineering details (if applicable).

a. Project Description for the Alternative

Describe, in detail, the alternative project. Also, explain how the alternative project will solve the problem(s) and/or provide protection from the hazard(s).

Another feasible alternative is to elevate the structure. This will keep the structure from flooding from rain events, however, it will not allow for the amount of seepage and may not protect the neighbors as well as open space would.

b. Project Location of the Alternative (describe briefly)

Attach a map or diagram showing the alternative site in relation to the proposed project site

Photographs (2 copies) of alternative site



Alternative Actions

c. Scope of Work for Alternative Project

The scope of work for this project is to elevate the existing residence at 123 Main St. The structure was built in 1984 and is a single family residence located in a AE flood zone. The structure will be elevated three (3) feet above the established Base Flood Elevation of 10 feet. The elevated structure should comply with all applicable local, state and federal code and permitting requirements. The areas below the lowest floor must be used solely for parking of vehicles, building access or storage.

d. Impacts of Alternative Project

Below, discuss the impact of this alternative on the project area. Include comments on these issues as appropriate: Environmental Justice, Endangered Species, Wetlands, Hydrology (upstream and downstream surface water impacts), Floodplain/Floodway, Historic Preservation and Hazardous Materials.

No additional impacts will be created with the elevation of the structure. The structure will remain in a floodplain.



Alternative Actions

e. **Estimated Budget/Costs for Alternative Project**

In this section, provide details of all the estimated costs of the alternative project (round figures to the nearest dollar). A lump sum budget is acceptable.

Total Estimated Project Cost \$100,000



Other Documentation

▶ Permits / Concurrence Letters

◦ Most Common:

- USACE Nationwide Permit
- Water Management District (WMD) Environmental Resource Permit (ERP)
- FDEP NPDES – NOI, NOT, SWPPP (closeout)
- FWC/USFWS if in rural area
- Floodplain Administrator
- National Marine Fisheries Service if next to coastline
- National Resource Conservation Service
- State Historic Preservation Officer* (SHPO)

▶ Public Notice



NEPA Regulatory Agencies

State:

- ▶ Florida Department of Environmental Protection
- ▶ Florida Water Management Districts (5)
- ▶ Florida Fish and Wildlife Conservation Commission
- ▶ Florida Department of Agriculture and Consumer Services
- ▶ State Historic Preservation Office



NEPA Regulatory Agencies

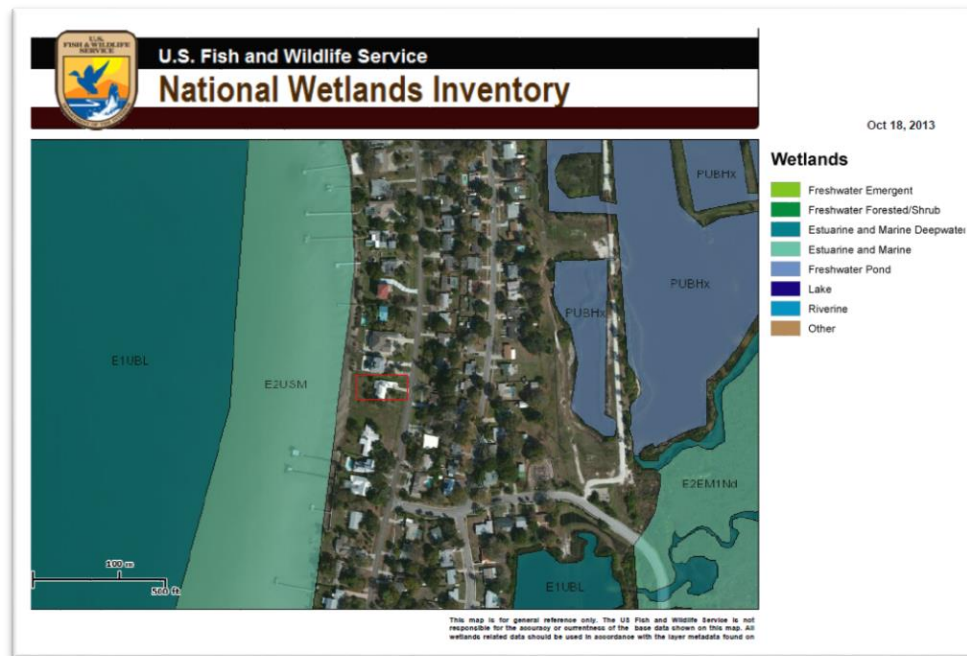
Federal:

- ▶ U.S. Army Corps of Engineers (USACE)
- ▶ U.S. Fish and Wildlife Service
- ▶ NOAA/National Marine Fisheries Service
- ▶ U.S. Environmental Protection Agency
- ▶ Natural Resources Conservation Service
- ▶ National Park Service
- ▶ U.S. Forest Service
- ▶ Federal Aviation Administration
- ▶ Tribal Historic Preservation Office
- ▶ Advisory Council on Historic Preservation



USACE

- ▶ If affecting or potential to affect a wetland area a USACE permit or no permit required (NPR) must be provided.
 - NEPA Assist Tool
 - National Wetlands Inventory
- <http://www.fws.gov/wetlands/Data/Mapper.html>



USACE

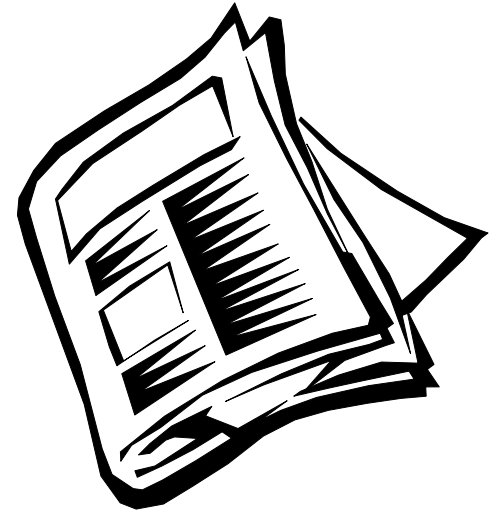
- ▶ If within 200' of waterbody (any waterbody including streams, creeks, rivers, ponds, lakes, gulf, etc.) you must have:
 - USACE Permit or notification from the Regulatory Branch that no permit is required (NPR).
 - Photographs of project in relation to the waterbody



Public Notice

- ▶ Required for projects:
 - With a significant impact to the community and environment
 - Impact floodplain
 - Impact wetlands

- ▶ Use State/FEMA Format
 - Publish on Sunday and weekdays
 - 30 day comment period from the public



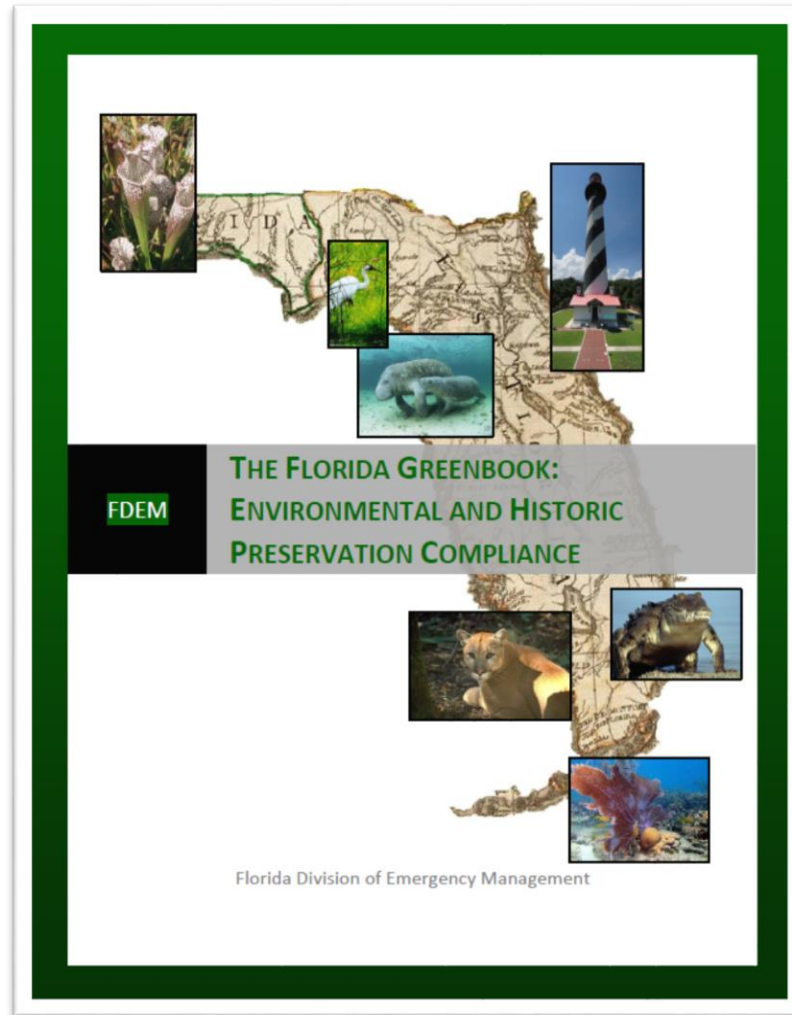
Things that can **TERMINATE** a Project

- Starting **BEFORE** environmental review is complete.
- Assuming it does not have to comply with environmental laws if statutorily excluded.
- Not providing a defined scope of work (SOW) and project location.
- **Changing SOW** and not informing the State/FEMA.



Other Resources

<http://www.floridadisaster.org/Recovery/documents/FLGreenbook.pdf>



QUESTIONS?



Contacts

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