**Georgia Emergency Management Agency / Homeland Security**

**Wind Retrofit Projects**

|  |
| --- |
| **Assistance Requesting: Primary** **Community Lifeline Utilized:**FMA (Flood Mitigation Assistance) BRIC (Building Resilient and Infrastructure Communities)  Safety and Security  Energy (power grid, fuel) HMGP (Hazard Mitigation Grant Program)  Food, Water, Shelter  Communications  **** Health and Medical TransportationIf HMGP: FEMA-DR-#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hazardous Material (HAZMAT)  **Community Information: Community NFIP/CRS Status:**  Conforms to State Mitigation Plan NFIP Participating  In Good Standing  Conforms to Local Mitigation Plan  Non-Participating  CRS Community State or Local Government  Private Non-Profit CRS Community Score: \_\_\_\_\_\_\_  Project Pre-Identified in Local Plan  Declared County (HMGP only)   **Wind Retrofit Project Type:****Building Codes:**  Infrastructure Retrofit (Utility, roads, bridges) Wind Retrofit (One or two-family residential) Adopted the building codes consistent with the international codes?  Year of Building Code: \_\_\_\_\_\_\_\_\_\_\_\_ Building Code Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Building codes been assessed on the Building  Code Effectiveness Grading Schedule? BCEGS Score: \_\_\_\_\_\_\_\_\_  **For state use only:**Date Pre-Application Received \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  State Reviewer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_ |

This worksheet is for all Hazard Mitigation Assistance grant programs “wind retrofit” proposals. Please complete ALL sections and provide the documents requested. If you require technical assistance with this worksheet, please contact the Hazard Mitigation Division at (404)-635-7522 or 1-800-TRY-GEMA to have a Risk Reduction Specialist assigned to you. If you have more than one structure, complete pages 2-4 for each structure.

1. Applicant Information
	1. Name of Applicant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Applicant Type

 State Government Local Government Private Non-Profit

3. Worksheet Prepared by:

 Ms. Mr. Mrs. First Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Telephone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address (City, State, Zip): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 E-mail address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Authorized Applicant Agent (**An individual authorized to sign financial and legal documents on behalf on the local government (e.g., the Chairperson, Board of County Commissioners or the County Manager, etc.).

Ms. Mr. Mrs. First Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Telephone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address (City, State, Zip): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-mail address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Submitted: \_\_\_\_\_\_\_\_\_**

1. Project Information/Mitigation Plan
2. Project Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Project Summary: (Describe in detail what you are proposing to do.)
4. **Date of Hazard Mitigation Plan approval by FEMA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

This project must be identified in your Hazard Mitigation Plan. Provide a copy of the goal, objective, and action step that supports your project application. Please attach a letter of endorsement for the project from your County’s Emergency Management Agency (EMA) Director.

If submitting more than one retrofit structure for funding consideration, rank each property in order of most important with 1 being the site that is the highest priority. Priority: \_\_\_\_\_\_ of \_\_\_\_\_\_.

1. Property Location/Owner Information
	1. Property Owner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Physical Address (including city, and zip code):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. Current Use of Building: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. Latitude: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Longitude: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **\*Digital Latitude and Digital Longitude coordinates need to be in Decimal Degrees.**

1. **Map and Photographs of Structure Location**

🞎 Include Google map with structure site clearly marked

🞎 Provide high-resolution color photographs by email showing a front-view, side-view, back view and street view

 of the structure.

1. **Exposure** (Check the one that applies to the project site)

🞎 **Urban and Dense Suburban** - Applies to urban and suburban areas, wooded areas, or other terrain with numerously closely spaced obstructions having the size of single-family dwellings or larger.

🞎 **Open** - Applies to flat open terrain with scattered obstructions and areas adjacent to water surfaces in hurricane-prone regions, the scattered obstructions are generally less than 30 feet tall. This category includes flat open country, grasslands, and shorelines in hurricane prone regions.

1. **Mitigation Type** (Check all that might apply)

🞎 **Shutters** - Protect all windows and doors with shutters, laminations, or other systems that meet the debris impact and wind pressure design requirements of the International Residential Code/International Building Code (IRC/IBC)

**🞎 Load Path** - Improve and upgrade the structural system of a building to transfer loads from the roof to the foundation.

🞎 **Roof -** Retrofitting a building's roof by improving and upgrading the roof deck and roof coverings to secure the building envelope and integrity during a wind event.

**🞎 Code Plus** - A project designed to exceed the local building codes and standards to achieve a greater level of protection.

Design Wind Speed \_\_\_\_\_\_\_

Code Plus Project Design Wind Speed \_\_\_\_\_\_\_

**Some mitigation projects are only allowed for certain types of projects. The following table can serve as a guideline:**

**Mitigation by Construction Type**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Shutters** | **Load Path** | **Roof** | **Code Plus** |
| Concrete | Yes |  | Yes | Yes |
| Manufactured | Yes |  |  |  |
| Masonry | Yes | Yes | Yes | Yes |
| Steel | Yes |  | Yes | Yes |
| Wood | Yes | Yes | Yes |  |

1. **Property Information**
	1. **Structure Information**
		1. Total Size of Building (SF) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. Building Annual Income $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		3. Building Replacement Value \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Source: Provide documentation such as a letter from building inspector or ICB or RS Means, Marshall and Swift, etc.*

* + 1. Building Type: □Residential □Critical Facility □Commercial
			1. If Residential Property:

Number of People in Household \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Loss of Rental Income $\_\_\_\_\_\_\_\_\_\_\_\_\_\_ per month □N/A

* + - 1. If Commercial/Critical Facility:

Loss of Productivity – Number of Workers in Building \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Type of Construction** (check predominant type of construction)

□Concrete □Manufactured Home □Masonry □Steel □Wood

Building Number from Appendix Table 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Other Data to Complete BCA**
		1. Volunteers Used for Project □Yes □No

Number of Hours Worked per Volunteer \_\_\_\_\_\_\_\_\_\_\_\_\_

Number of Days Lodging per Volunteer \_\_\_\_\_\_\_\_\_\_\_\_\_

* + 1. Check all applicable building properties for before and after mitigation: (see Appendix Table 2)

**Properties before Mitigation: Applicable Bldg. Numbers**

Shutters: □Yes □No 1-10

Garage, House without Shutters: □None □Weak □Standard 1,2,6,7

Roof Shape: □Hip □Gable □Unsure 1-10

Secondary Water Resistance: □Yes □No □Unsure 1-10

Roof Wall Connection: □Toe-Nail □Strap □Unsure 1-12

Roof Deck Attachment II (Wood): □6d@6”/12” □8d@6”/12” □6d/8d Mix@6”/12” □8d@6”/6” □Unsure 1-10

Masonry Reinforcing: □Yes □No □Unsure 6-13

Window Area: □Low □Medium □High □Unsure 14-25, 29-34

Roof Cover Type: □BUR □SPM □Unsure 11,12,14-17,20-25,29-34

Roof Frame System: □Wood Truss □Steel Joist 11-12

 Roof Deck Age: □New or Average □Old □Unsure 13,26-28

 Wind Debris: □Residential □Residential/Commercial □Varies by Direction □Unsure 11,12,14-19,20-25,29-34

 Roof Deck Attachment III (Metal): □Standard □Superior □Unsure 12-19,26-34

 Tie Downs: □Yes □No □Unsure 35-39

 **Properties after Mitigation:**

Shutters: □Yes □No 1-10

 Garage, House with Shutters: □None □SFBC1994 1,2,6,7

 Roof Shape: □Hip □Gable □Unsure 1-10

 Secondary Water Resistance: □Yes □No □Unsure 1-10

 Roof-Wall Connection: □Toe-Nail □Strap □Unsure 1-12

 Roof Deck Attachment II (Wood): □6d@6”/12” □8d@6”/12” □6d/8d Mix@6”/12” □8d@6”/6” □Unsure 1-10

 Masonry Reinforcing: □Yes □No □Unsure 6-13

 Window Area: □Low □Medium □High □Unsure 14-25,29-34

 Roof Cover Type: □BUR □SPM □Unsure 11,12,14-17,20-25,29-34

 Roof Frame System: □Wood Truss □Steel Joint 11,12

 Roof Deck Age: □New or Average □Old □Unsure 13,26-28

 Wind Debris: □Residential □Residential/Commercial □Varies by Direction □Unsure 11,12,14-19,20-25,29-34

 Roof Deck Attachment III (Metal): □Standard □Superior □Unsure 12-19,26-34

 Tie Downs: □Yes □No □Unsure 35-39

1. **Has Structure Evaluation been Conducted?** □Yes □No

 If yes, please include any site plans associated with evaluation.

1. **Project Costs** List all anticipated costs. Consider the potential future date of construction when compiling the cost estimate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item Description** | **Unit** | **Quantity** | **Unit Price** | **Amount** | **Source** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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**\*Pre-Award Costs: Costs incurred prior to the date of the grant award. Such costs maybe to gather EHP data, for preparing design specifications, or for attending application workshops or meetings related to development and submission of HMGP applications.**

 Total Cost $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Annual Maintenance Costs $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **History of Wind Related Hazards / Damages in the Area to be protected**

A detailed written description of the wind hazard potential and past damages that have occurred at the project location should be provided. List any damages that have occurred to the facility for various high-wind events and the costs associated with those damages. Include a history of insurance claims made for each property. Include information for as many past incidents as possible. Attach any supporting documents, newspaper articles, pictures, etc.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date of Event** | **Event** | **Description of Damage** | **Amount of Damages** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Appendix**

**Table 1: Building Types for Use in the Hurricane-Wind Full Data Module 5.2.1**

The building type is based on the use, style, and structural components of the building. The building types used in the BCA module correspond with HAZUS-MH. Please refer to a structural engineer, contractor, or building inspector to determine the building type. For more information, please refer to ***FEMA 543: Design***

***Guide for Improving Critical Facility Safety from Flooding and High Winds*** on the FEMA Web site at <http://www.fema.gov/library/viewRecord.do?id=2441>.

|  |  |  |
| --- | --- | --- |
| **Building Category** | **Descriptive Name** | **Building Number** |
| **Wood Construction Types** |
| WSF1 Wood, Single Family, One Story | Model building is a wood-framed, single-story, single-family house. | 1 |
| WSF2 Wood, Single Family, Two or More Stories | Model building is a wood-framed, two-story, single-family house. | 2 |
| WMUH1 Wood, Multi-Unit Housing, One Story | Model building is a wood-framed, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 3 |
| WMUH2 Wood, Multi-Unit Housing, Two Stories | Model building is a wood-framed, two-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 4 |
| WMUH3 Wood, Multi-Unit Housing, Three or More Stories | Model building is a wood-framed, three-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 5 |
| **Masonry Construction Types** |
| MSF1 Masonry, Single Family, One Story | Model building is a masonry wall, single-story, single-family house. | 6 |
| MSF2 Masonry, Single Family, Two or More Stories | Model building is a masonry wall, two-story, single-family house. | 7 |
| MMUH1 Masonry, Multi-Unit Housing, One Story  | Model building is a masonry wall, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 8 |
| MMUH2 Masonry, Multi-Unit Housing, Two Stories | Model building is a masonry wall, two-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 9 |
| MMUH3 Masonry, Multi-Unit Housing, Three or More Stories | Model building is a masonry wall, three-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. | 10 |
| MLRM1 Masonry, Low-Rise Strip Mall, Up to 15 Feet | Model building is a masonry wall, low-rise strip mall building, up to 15 feet in height. The masonry walls can be either reinforced or unreinforced. | 11 |
| MLRM2 Masonry, Low-Rise Strip Mall, More than 15 Feet | Model building is a masonry wall, low-rise strip mall building, more than 15 feet in height. The masonry walls can be either reinforced or unreinforced. | 12 |
| MLRI Masonry, Low-RiseIndustrial/Warehouse/Factory Buildings | Model building is a 240,000 square foot, masonry wall, industrial building or warehouse. The masonry walls can be either reinforced or unreinforced. | 13 |
| MERBL Masonry, Engineered Residential Building, Low-Rise (1-2 Stories) | Model building is a two-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. | 14 |
| MERBM Masonry, Engineered Residential Building, Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. | 15 |
| MERBH Masonry, Engineered Residential Building, High-Rise (6+ Stories) | Model building is an eight-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. | 16 |
| MECBL Masonry, Engineered Commercial Building, Low-Rise (1-2 Stories) | Model building is a two-story, engineered, reinforced masonry wall, commercial building with an open floor plan. | 17 |
| MECBM Masonry, Engineered Commercial Building, Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, reinforced masonry wall, commercial building with an open floor plan. | 18 |
| MECBH Masonry, Engineered Commercial Building, High-Rise (6+ Stories) | Model building is an eight-story, engineered, reinforced masonry wall, commercial building with an open floor plan. | 19 |
| **Concrete Construction Types** |
| CERBL Concrete, Engineered Residential Building, Low-Rise (1-2 Stories) | Model building is a two-story, engineered, reinforced concrete, residential building with a compartmented floor plan | 20 |
| CERBM Concrete, Engineered Residential Building, Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, reinforced concrete, residential building with a compartmented floor plan | 21 |
| CERBH Concrete, Engineered Residential Building, High-Rise (6+ Stories) | Model building is a eight-story, engineered, reinforced concrete, residential building with a compartmented floor plan | 22 |
| CECBL Concrete, Engineered Commercial Building, Low-Rise (1-2 Stories) | Model building is a two-story, engineered, reinforced concrete, commercial building with an open floor plan. | 23 |
| CECBM Concrete, Engineered Commercial Building, Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, reinforced concrete, commercial building with an open floor plan. | 24 |
| CECBH Concrete, Engineered Commercial Building, High-Rise (6+ Stories) | Model building is an eight-story, engineered, reinforced concrete, commercial building with an open floor plan. | 25 |
| **Steel Construction Types** |
| SPMBS Steel, Pre-Engineered Metal Building – Small | Model building is a 4,000 square foot, pre-engineered, steel frame, metal clad building. | 26 |
| SPMBM Steel, Pre-Engineered Metal Building – Medium | Model building is a 50,000 square foot, pre-engineered, steel frame, metal clad building. | 27 |
| SPMBL Steel, Pre-Engineered Metal Building – Large | Model building is a 500,000 square foot, pre-engineered, steel frame, metal clad building. | 28 |
| SERBL Steel, Engineered Residential Building - Low-Rise (1-2 Stories) | Model building is a two-story, engineered, steel frame, residential building with a compartmented floor plan. | 29 |
| SERBM Steel, Engineered ResidentialBuilding - Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, steel frame, residential building with a compartmented floor plan. | 30 |
| SERBH Steel, Engineered Residential Building - High-Rise (6+ Stories) | Model building is an eight-story, engineered, steel frame, residential building with a compartmented floor plan. | 31 |
| SECBL Steel, Engineered CommercialBuilding - Low-Rise (1-2 Stories) | Model building is a two-story, engineered, steel frame, commercial building with an open floor plan. | 32 |
| SECBM Steel, Engineered CommercialBuilding - Mid-Rise (3-5 Stories) | Model building is a five-story, engineered, steel frame, commercial building with an open floor plan. | 33 |
| SECBH Steel, Engineered CommercialBuilding - High-Rise (6+ Stories) | Model building is an eight-story, engineered, steel frame, commercial building with an open floor plan. | 34 |
| **Manufactured Construction Types** |
| MHPHUD Manufactured Home, Pre-HUD | Model building is a manufactured home built prior to the 1976 HUD standard. The home can be either tied-down or unrestrained. | 35 |
| MH76HUD Manufactured Home, 1976 HUD | Model building is a manufactured home built to the 1976 HUD standard. The home can be either tied-down or unrestrained. | 36 |
| MH94HUD-I Manufactured Home, 1994 HUD - Wind Zone I | Model building is a manufactured home built to the 1994 HUD standard for Wind Zone I. The home can be either tied-down or unrestrained. | 37 |
| MH94HUD-II Manufactured Home, 1994 HUD - Wind Zone II | Model building is a manufactured home built to the 1994 HUD standard for Wind Zone II. The home can be either tied-down or unrestrained. | 38 |
| MH94HUD-III Manufactured Home, 1994 HUD - Wind Zone III | Model building is a manufactured home built to the 1994 HUD standard for Wind Zone III. The home can be either tied-down or unrestrained. | 39 |

**Table 2: Building Properties for Use in the Hurricane-Wind Full Data Module 5.2.1**

The building properties are determined by the mitigation type and building type you have selected. For more information, please refer to ***FEMA 543: Design Guide for Improving Critical Facility Safety from Flooding and High Winds*** on the FEMA Web site at http://www.fema.gov/library/viewRecord.do?id=2441

The following table describes the various building properties.

|  |  |  |
| --- | --- | --- |
| **Property** | **Definition** | **Applicable Construction Type Applicable Building Number**  |
| Roof Shape  | This property indicates if a structure has flat, gable, or hip roof. | Wood, Masonry1-10 |
| Roof Cover Type  | This property identifies the roof covering; either – built up roof (BUR), single ply membrane (SPM), asphalt shingles, or metal. | Masonry, Steel, Concrete11-12, 14-17, 20-25, 29-34 |
| Roof Cover Quality | This property refers to the quality of the roof, either good or poor. |  |
| Shutters | This property indicates if a structure has shutters. | Wood, Masonry, Steel, Concrete, Manufactured Home1-39 |
| Masonry Reinforcing | This property indicates if a structure has reinforced masonry walls. | Masonry6-13 |
| Secondary Water Resistance | This property identifies whether there is a secondary water resistance barrier to prevent water penetration through the roof decking after the loss of the roof covering. | Wood, Masonry1-10 |
| Roof-wall connection | This property indicates if the structural system of a building can transfer loads from the roof to the foundation. In general, a strap would provide positive connection from the roof framing to the walls, better connections within the wall framing, and connections from the wall framing to the foundation system. | Wood, Masonry1-12 |
| Roof Deck Attachment II (Wood) | This property refers to the spacing of the nails that support the roof decking. | Wood, Masonry1-10 |
| Garage Houses with Shutters | This property indicates whether a house with shutters has a garage door. | Wood, Masonry1,2,6,7 |
| Garage Houses w/out shutters | This property indicates the strength of a garage door for a house without shutters. Reinforced garage doors are considered standard, un-reinforced doors are considered weak. | Wood, Masonry1,2,6,7 |
| Window Area | This property refers to the amount of openings in the structure, <20% is low, 20-40% is medium, and >40% is high. | Masonry, Steel, Concrete14-25, 29-34 |
| Wind Debris | This property indicates the typical characteristics associated with debris in the area surrounding the structure (residential versus residential/commercial mix). | Masonry, Steel, Concrete11-12, 14-19, 20-25, 29-34 |
| Roof Deck attachment III (Metal) | This property indicates if the structure has standard or above standard (superior) roof deck attachments for metal roofs. | Masonry, Steel12-19, 26-34 |
| Tie Downs | Straps utilized to secure manufactured homes to anchors during high winds. | Manufactured Home35-39 |
| Roof Deck Age | Represents the age of the roof deck (not roof cover). An old roof deck is generally older than 20 years. | Masonry, Steel13, 26-28 |
| Roof Frame System | This property indicates if the structure has a wood truss or steel joist supporting the roof. | Masonry11,12 |

*Most building properties only apply to certain mitigation projects and certain building types. Additionally, some building properties are inclusive or exclusive of others. This is noted in the applicable construction type category and building number.*

* Volunteers Needed?
	+ Number of Hours Worked/Volunteer
	+ Number of Days Lodging/Volunteer
* Loss Productivity
	+ Number of workers
* Recurrence Interval?
* Loss of Function
	+ Primary Property or Rental Property
	+ Loss of Rent ($/month)
	+ Current Federal Lodging Per Diem (Attach sheet)
	+ Population Affected
	+ Current Federal Meals Per Diem (Attach sheet)
* Evaluation/Design