2021 VIRTUAL SERIES

ELEVATION CERTIFICATES

Natural Resources Division

1



2

- Please stay muted
- Questions in chat box
- Put your full name and email address in chat box to receive one-hour CEU credit
- Copy of slides and EC available in download box
- This session is being recorded



RULES OF ENGAGEMENT

3

The Floodplain Management Team



Whit Montague

State NFIP Coordinator

501.682.3969



Shelby Schmittou

CRS Coordinator

501.682.3907



Toni Brown

Training Coordinator

501.682.3958

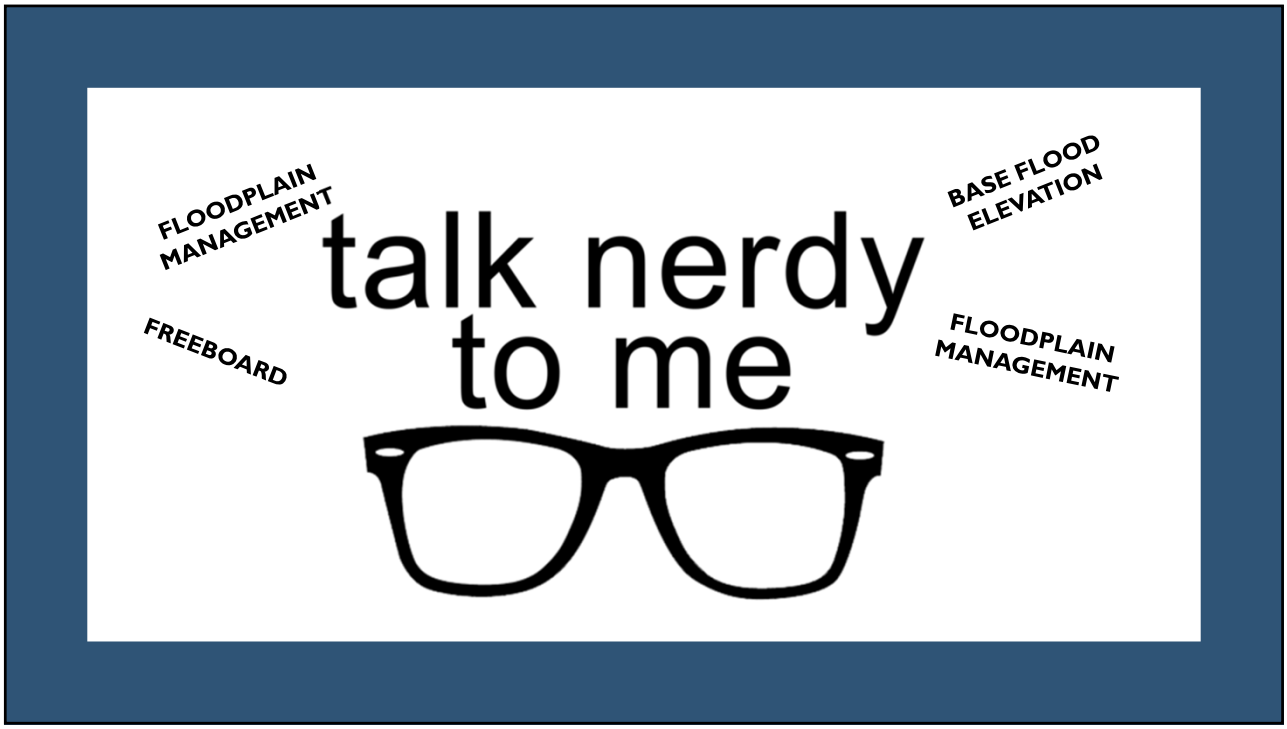


This Could Be YOU!

FMA Grant Coordinator

501.682.3982

4

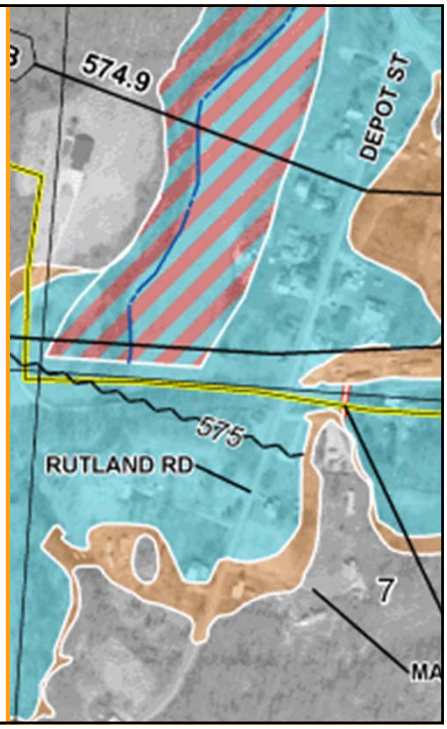


5

SPECIAL FLOOD HAZARD AREA (SFHA)



- Area where the NFIP floodplain management regulations must be enforced
- Area where mandatory purchase of flood insurance applies
- Same as the regulatory floodplain



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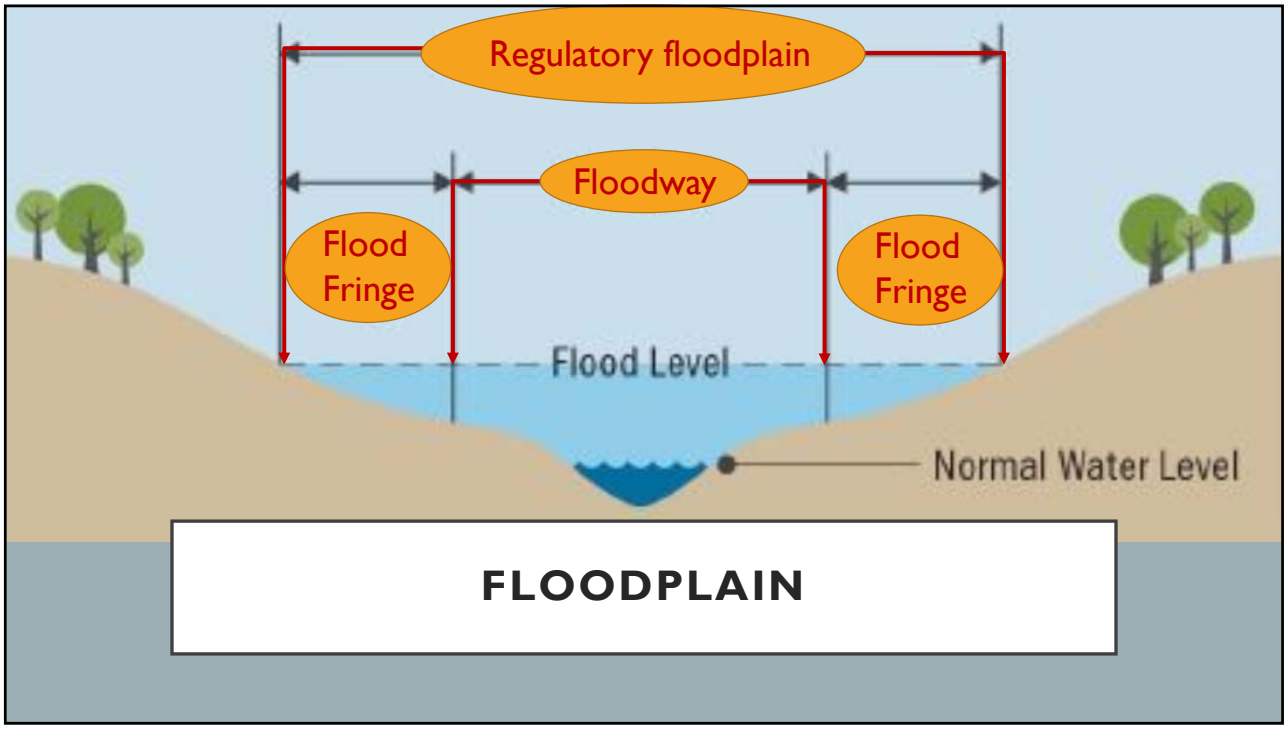
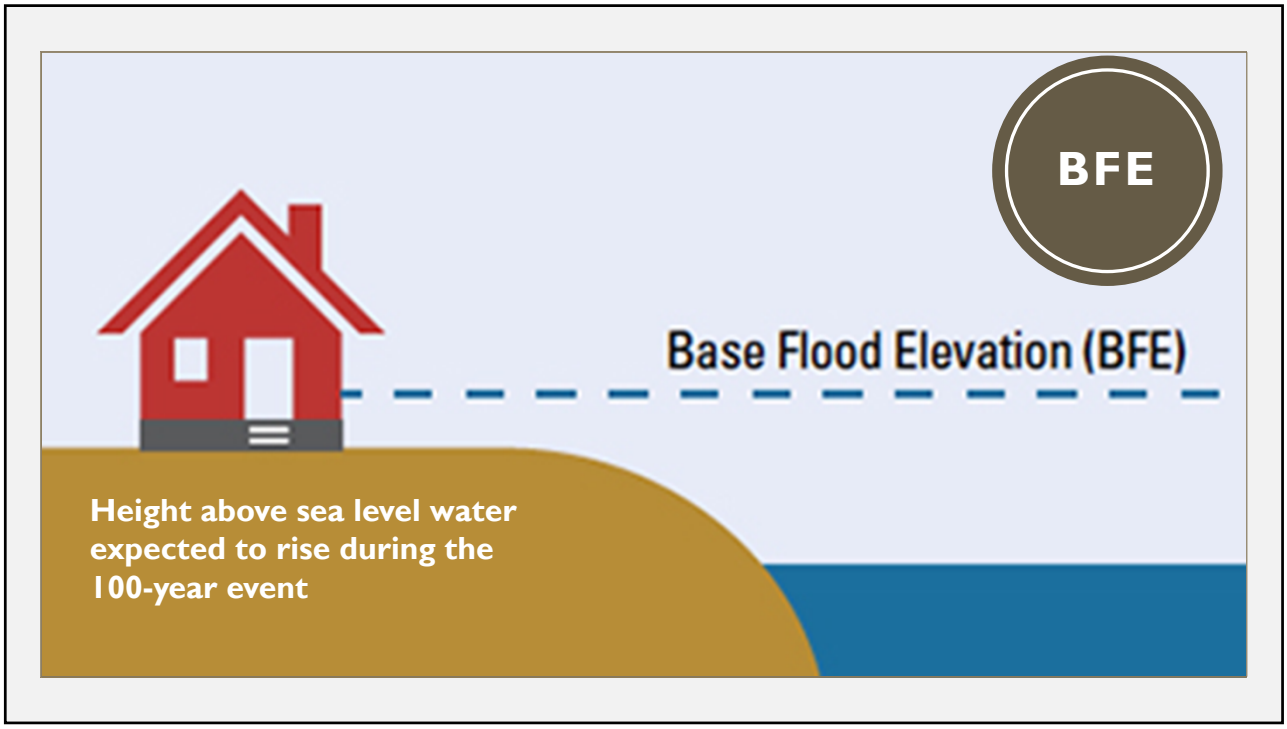

Regulatory floodplain
Floodway
Flood Fringe
Flood Fringe
Flood Level
Normal Water Level
FLOODPLAIN

7


BFE
Base Flood Elevation (BFE)
Height above sea level water expected to rise during the 100-year event

8



DEVELOPMENT

ANY man-made change to improved or unimproved real estate, including but not limited to:

- ❑ buildings or other structures,
- ❑ mining, dredging, filling,
- ❑ grading, paving, excavation, drilling operations,
- ❑ storage of equipment or materials

9

ELEVATION CERTIFICATES



Natural Resources Division

10

BENEFIT OF ECS

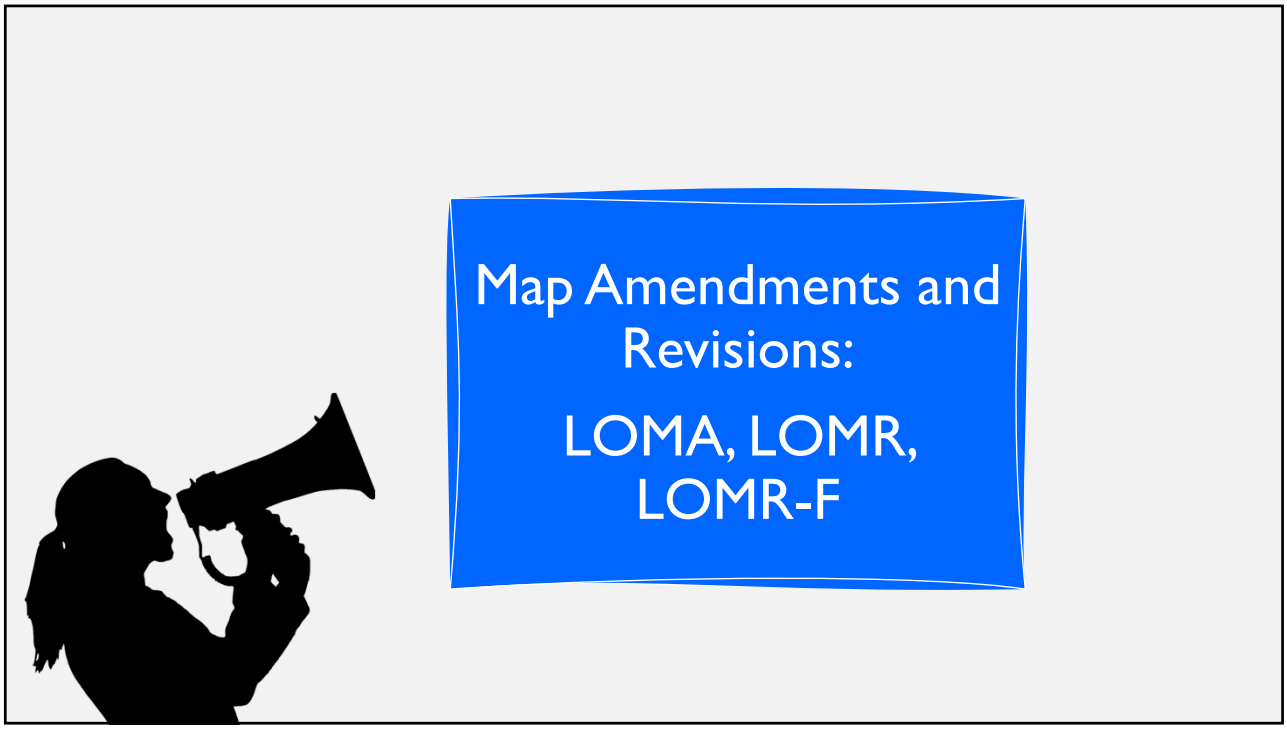


11



accurate insurance rating

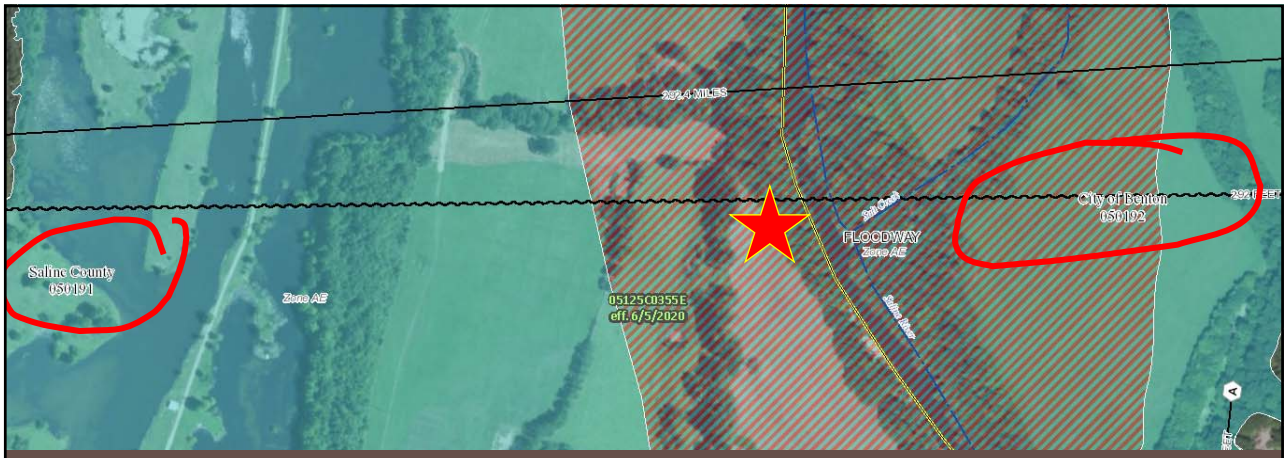
12


Map Amendments and Revisions:
LOMA, LOMR, LOMR-F

13


SUPPORT FPA:
SET COMPLIANCE TARGETS

14



HOW THE EC SUPPORTS FLOODPLAIN MANAGEMENT PERMITTING

Confirms location and jurisdiction

15

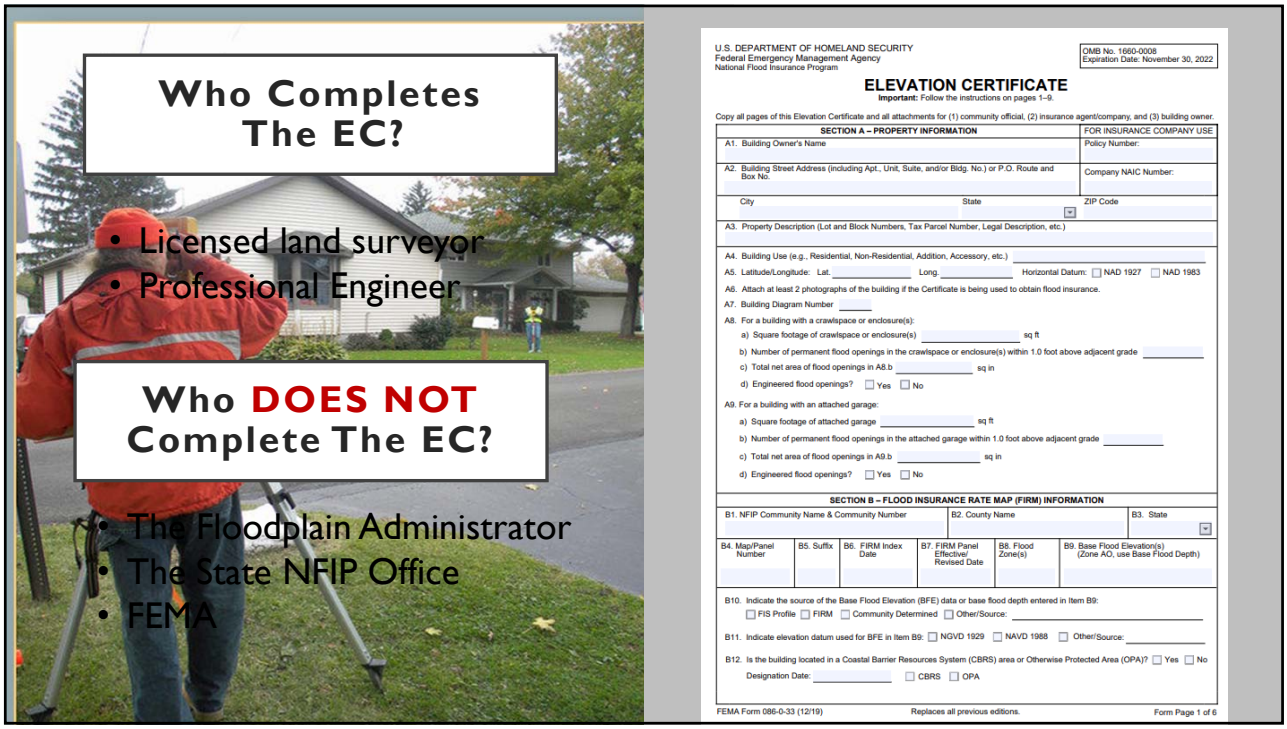
HOW THE EC SUPPORTS FLOODPLAIN MANAGEMENT PERMITTING

Identifies

- ❑ *Base Flood Elevation*
- ❑ *Building Type*
- ❑ *Compliance Targets [flood vents, HVAC elevation, etc.]*



16



U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB No. 1660-0008
Expiration Date: November 30, 2022

ELEVATION CERTIFICATE
Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

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A1. Building Owner's Name	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number:
City / State / ZIP Code	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)
A5. Latitude/Longitude: Lat. Long. Horizontal Datum: ☐ NAD 1927 ☐ NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number
A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade
c) Total net area of flood openings in A8.b sq in
d) Engineered flood openings? ☐ Yes ☐ No
A9. For a building with an attached garage:
a) Square footage of attached garage sq ft
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SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
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B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source:
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B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No
Designation Date: ☐ CBRS ☐ OPA

FEMA Form 086-0-33 (12/19) Replaces all previous editions. Form Page 1 of 6

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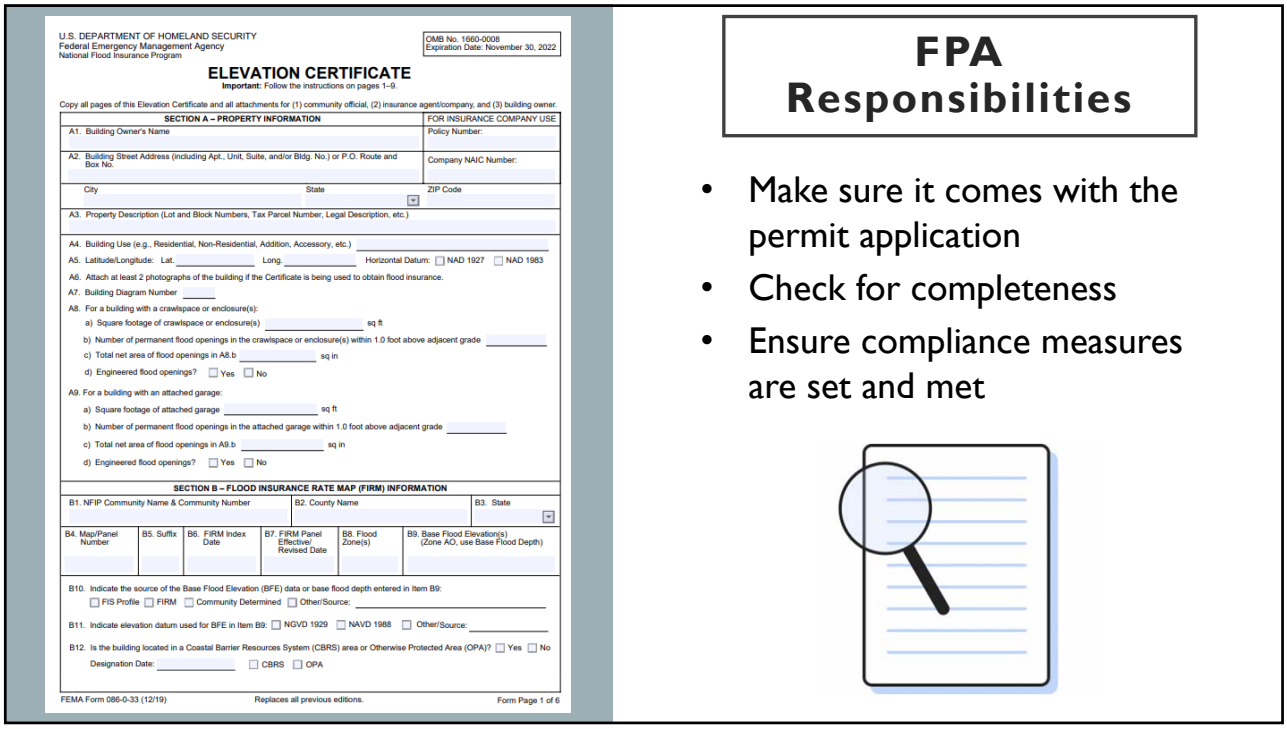

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a) Square footage of attached garage sq ft
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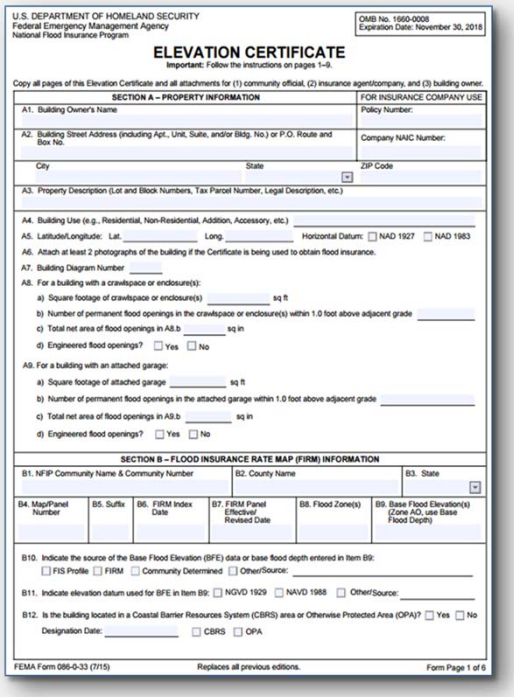
Common EC Mistakes

- **Form Incomplete**
- **No Permit Application**
- **Wrong BFE**
- **Wrong Community**
- **Wrong Building Diagram**



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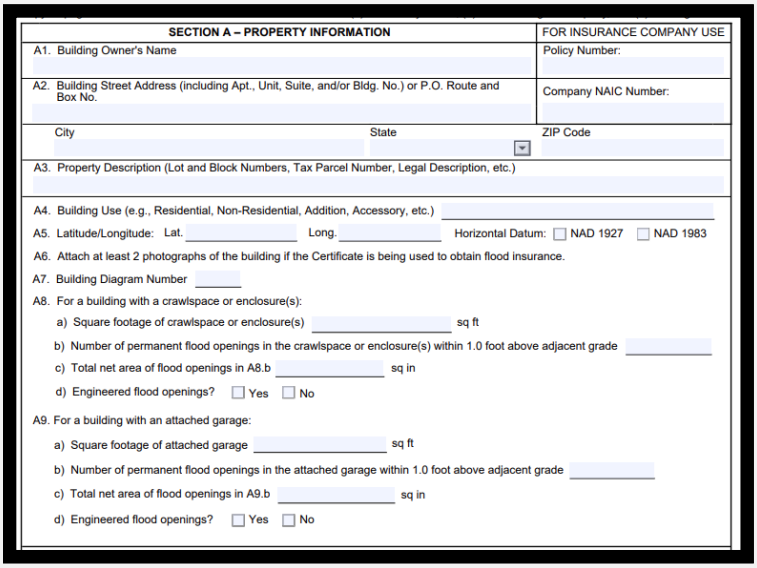
SECTION A

- location
- building type
- crawl space & enclosures
- flood vents
- garages



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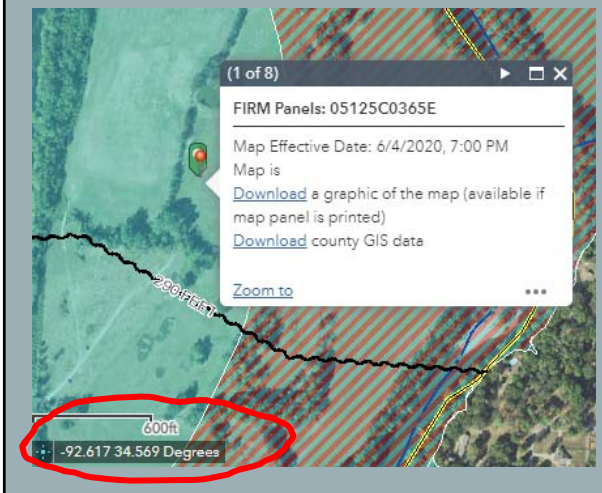
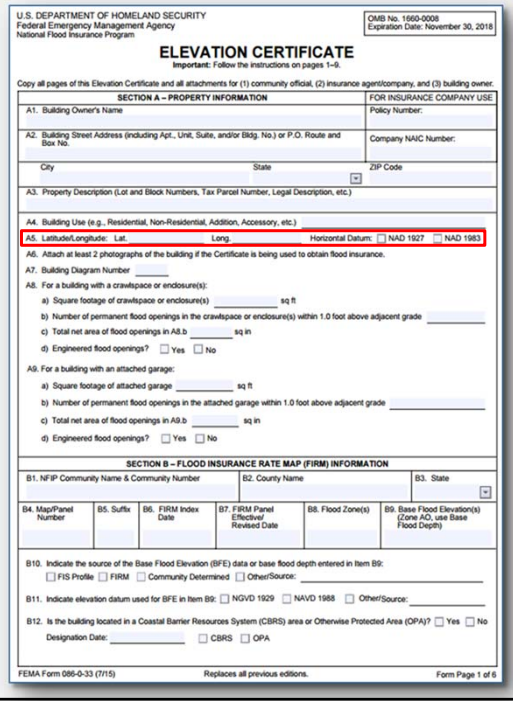
20

A5. Lat/Long & Horizontal Datum





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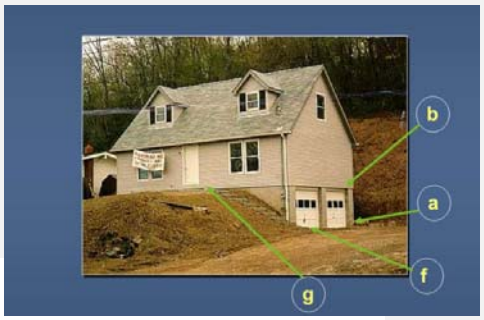
A7. Building Diagram



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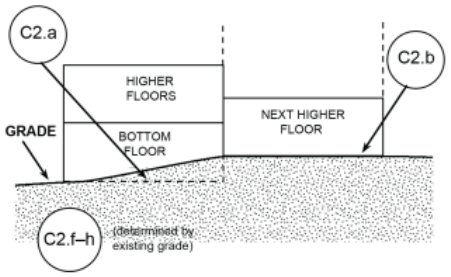
22



DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least 1 side.*



23

DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least 1 side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A – Property Information.

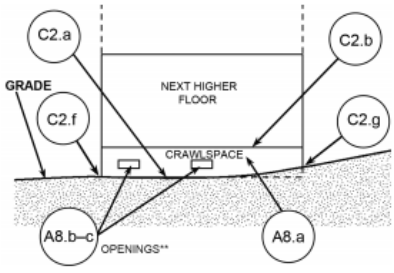




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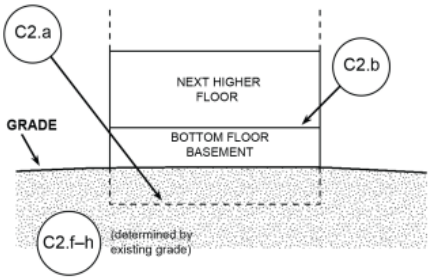
DIAGRAM 2A

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*





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SECTION B
All About The BFE

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

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B10. Source of BFE

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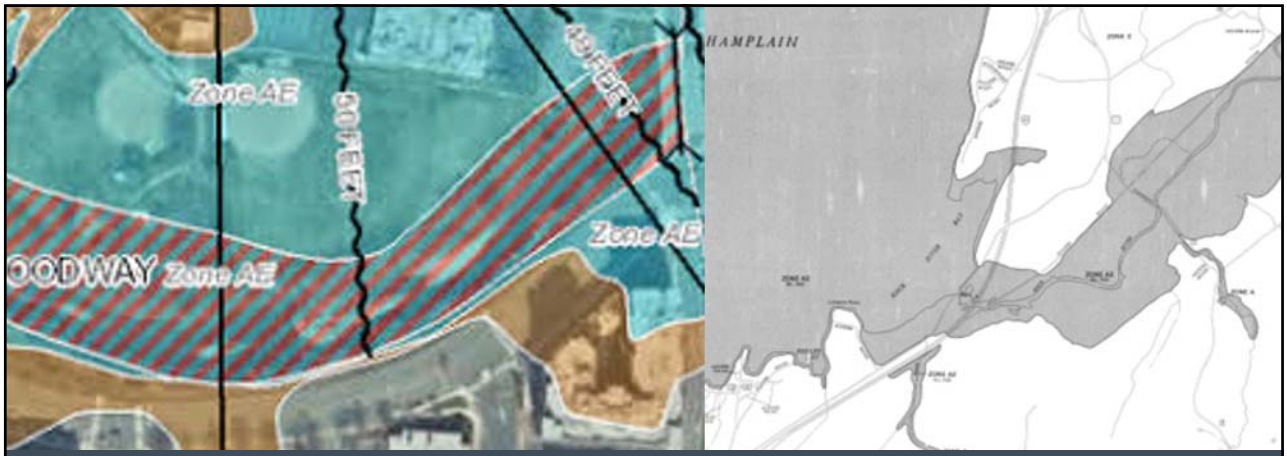
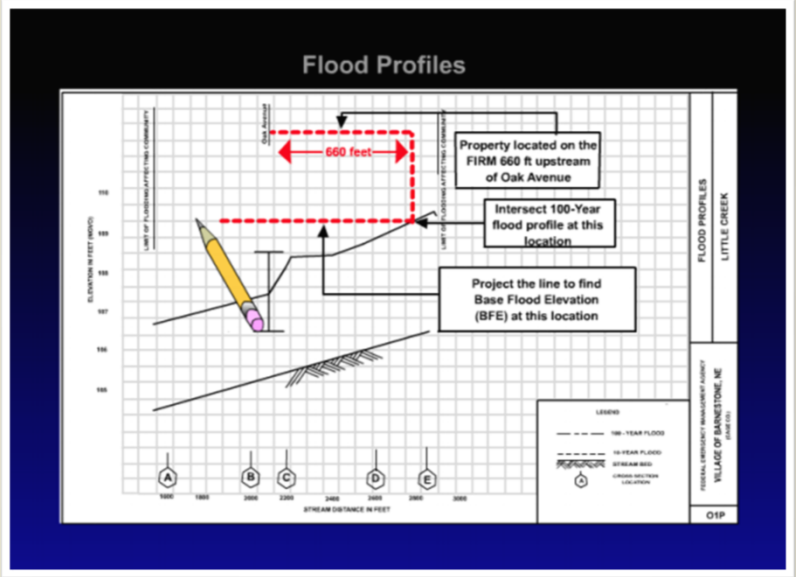


DIGITAL OR PAPER FIRMS

28



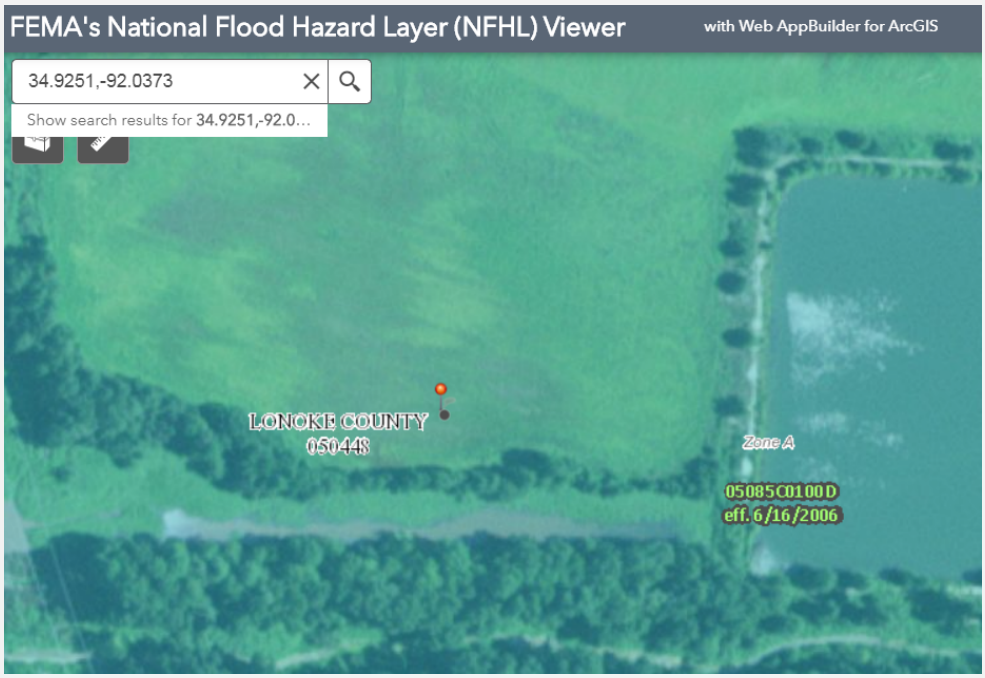
A FLOODPLAIN HAIKU

yearn for the profile

that number is best

sad, never see it

29



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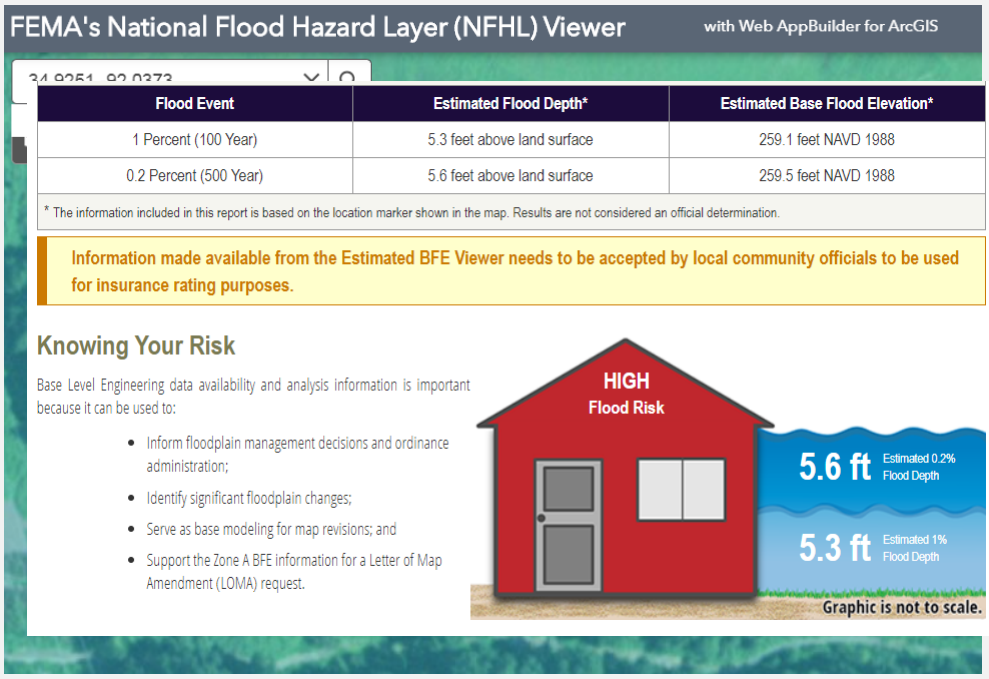
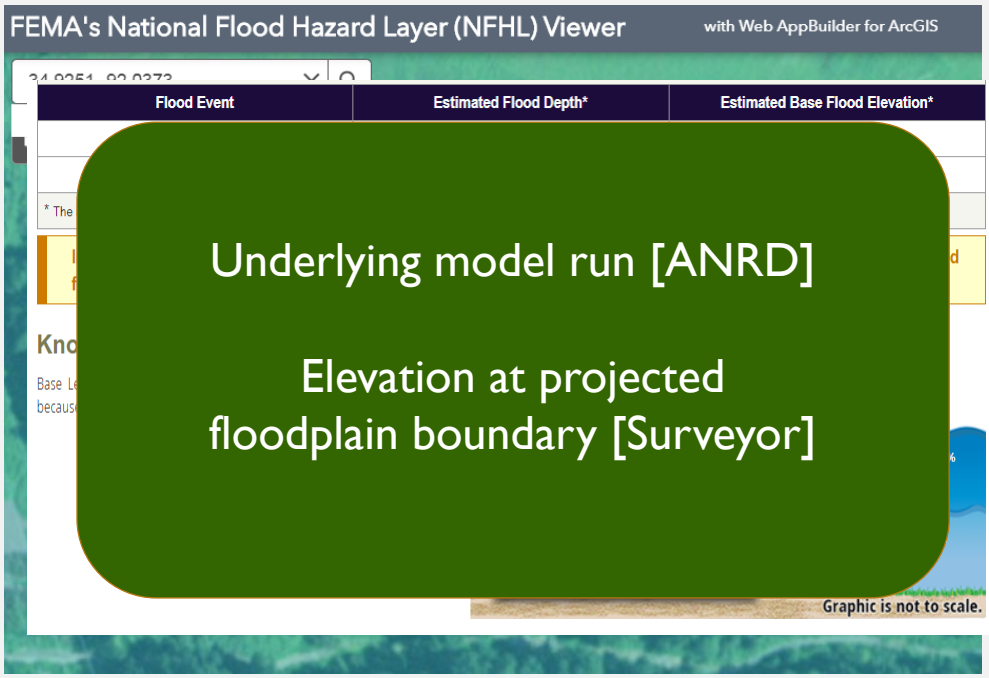

FEMA's National Flood Hazard Layer (NFHL) Viewer
with Web AppBuilder for ArcGIS
Flood Event
Estimated Flood Depth*
Estimated Base Flood Elevation*
1 Percent (100 Year)
5.3 feet above land surface
259.1 feet NAVD 1988
0.2 Percent (500 Year)
5.6 feet above land surface
259.5 feet NAVD 1988
* The information included in this report is based on the location marker shown in the map. Results are not considered an official determination.
Information made available from the Estimated BFE Viewer needs to be accepted by local community officials to be used for insurance rating purposes.
Knowing Your Risk
Base Level Engineering data availability and analysis information is important because it can be used to:
Inform floodplain management decisions and ordinance administration;
Identify significant floodplain changes;
Serve as base modeling for map revisions; and
Support the Zone A BFE information for a Letter of Map Amendment (LOMA) request.
HIGH
Flood Risk
5.6 ft
Estimated 0.2% Flood Depth
5.3 ft
Estimated 1% Flood Depth
Graphic is not to scale.

31


FEMA's National Flood Hazard Layer (NFHL) Viewer
with Web AppBuilder for ArcGIS
Flood Event
Estimated Flood Depth*
Estimated Base Flood Elevation*
Underlying model run [ANRD]
Elevation at projected floodplain boundary [Surveyor]
Graphic is not to scale.

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SECTION C: BUILDING ELEVATION INFO

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☐ Finishe
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR
Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter m

Benchmark Utilized: _____ Vertical Datum: _____

Indicate elevation datum used for the elevations in items a) through h) below.

☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

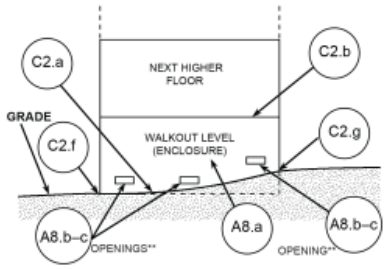
Datum used for building elevations must be the same as that used for the BFE.

		Check the meas
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)		☐ feet
b) Top of the next higher floor		☐ feet
c) Bottom of the lowest horizontal structural member (V Zones only)		☐ feet
d) Attached garage (top of slab)		☐ feet
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)		☐ feet
f) Lowest adjacent (finished) grade next to building (LAG)		☐ feet
g) Highest adjacent (finished) grade next to building (HAG)		☐ feet
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support		☐ feet

DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.



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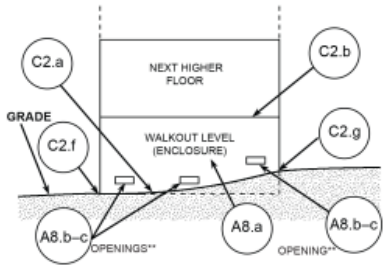
SECTION C: BUILDING ELEVATION INFO



DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.



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Section D: Comments

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☐ No ☐ Check here if attachments.

Certifier's Name	License Number	Place Seal Here
Title		
Company Name		
Address		
City	State / ZIP Code	
Signature	Date / Telephone / Ext.	

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

Building Permitted 05/01/1987; Constructed 09/15/1987;
B1: Hillsborough Co, 120112; B4: 120112 0389; B5: D; B6: 01/16/1987;
B7: 01/16/1987; B8: AE; B9: 8.6; B10: FIS; B11: NAVD88

- ALWAYS provide comments
- Comments- CANNOT:
  - Dictate use of form
  - Invalidate provided data

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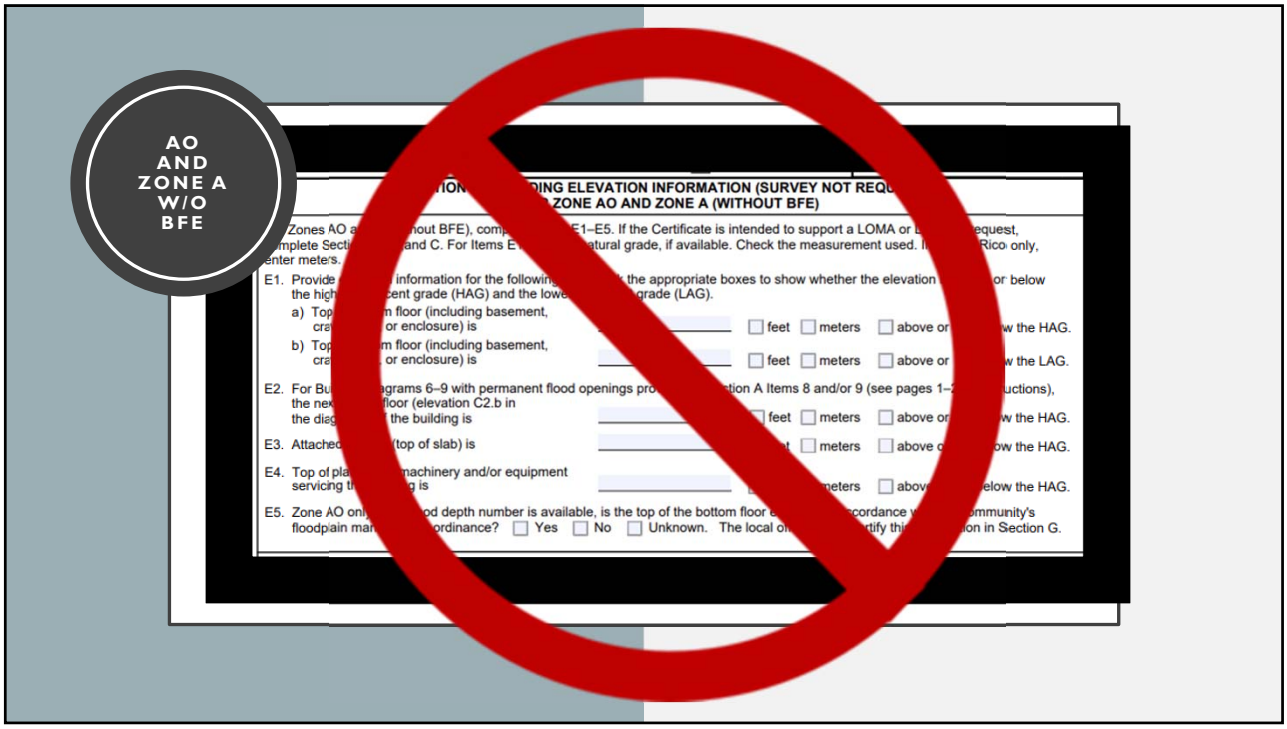

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Section G: Community Information

In support of a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision based on fill (LOMR-F).

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name	Title
Community Name	Telephone
Signature	Date

Comments (including type of equipment and location, per C2(e), if applicable)

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FINAL THOUGHTS



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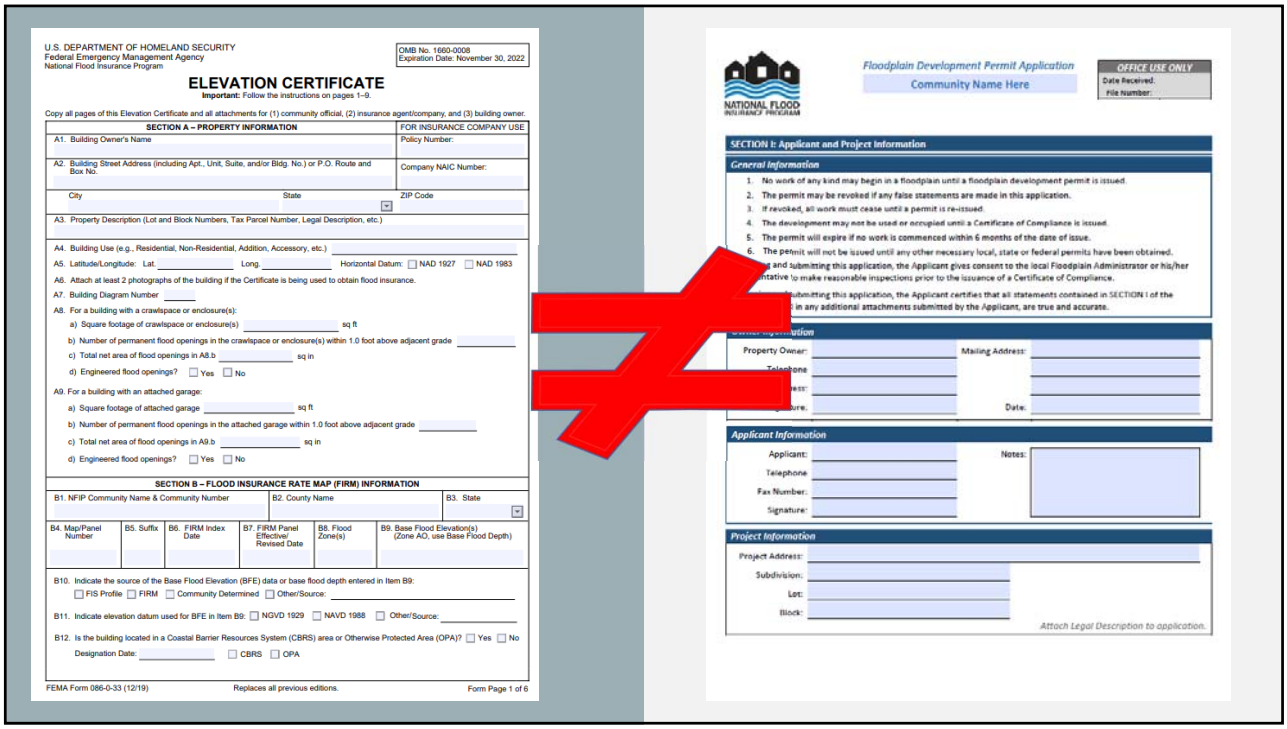
U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program
OMB No. 1660-0008
Expiration Date: November 30, 2022
ELEVATION CERTIFICATE
Important: Follow the instructions on pages 1–9.
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.
SECTION A – PROPERTY INFORMATION
FOR INSURANCE COMPANY USE
A1. Building Owner's Name
Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
Company NAIC Number:
City
State
ZIP Code
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)
A5. Latitude/Longitude: Lat. Long. Horizontal Datum: NAD 1927 NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number
A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade
c) Total net area of flood openings in A8.b sq in
d) Engineered flood openings? Yes No
A9. For a building with an attached garage:
a) Square footage of attached garage sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
c) Total net area of flood openings in A9.b sq in
d) Engineered flood openings? Yes No
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION
B1. NFIP Community Name & Community Number
B2. County Name
B3. State
B4. Map/Panel Number
B5. Suffix
B6. FIRM Index Date
B7. FIRM Panel Effective/ Revised Date
B8. Flood Zone(s)
B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
FIS Profile FIRM Community Determined Other/Source:
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No
Designation Date: CBRS OPA
FEMA Form 086-0-33 (12/19)
Replaces all previous editions.
Form Page 1 of 6
NATIONAL FLOOD INSURANCE PROGRAM
Floodplain Development Permit Application
Community Name Here
OFFICE USE ONLY
Date Received:
File Number:
SECTION I: Applicant and Project Information
General Information
1. No work of any kind may begin in a floodplain until a floodplain development permit is issued.
2. The permit may be revoked if any false statements are made in this application.
3. If revoked, all work must cease until a permit is re-issued.
4. The development may not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within 6 months of the date of issue.
6. The permit will not be issued until any other necessary local, state or federal permits have been obtained.
and submitting this application, the Applicant gives consent to the local Floodplain Administrator or his/her
ntative to make reasonable inspections prior to the issuance of a Certificate of Compliance.
submitting this application, the Applicant certifies that all statements contained in SECTION I of the
in any additional attachments submitted by the Applicant, are true and accurate.
Property Owner:
Mailing Address:
Date:
Applicant Information
Applicant:
Notes:
Telephone
Fax Number:
Signature:
Project Information
Project Address:
Subdivision:
Lot:
Block:
Attach Legal Description to application.

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DEERE
VOLVO

40



41



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NONRESIDENTIAL FLOODPROOFING

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- Ask the neighbors for recommendations
- FPA may be able to provide recommendation
- Arkansas State Board of Licensure [http://www.arkansas.gov/pels/search/search.php]
- **NOT** the State NFIP Office

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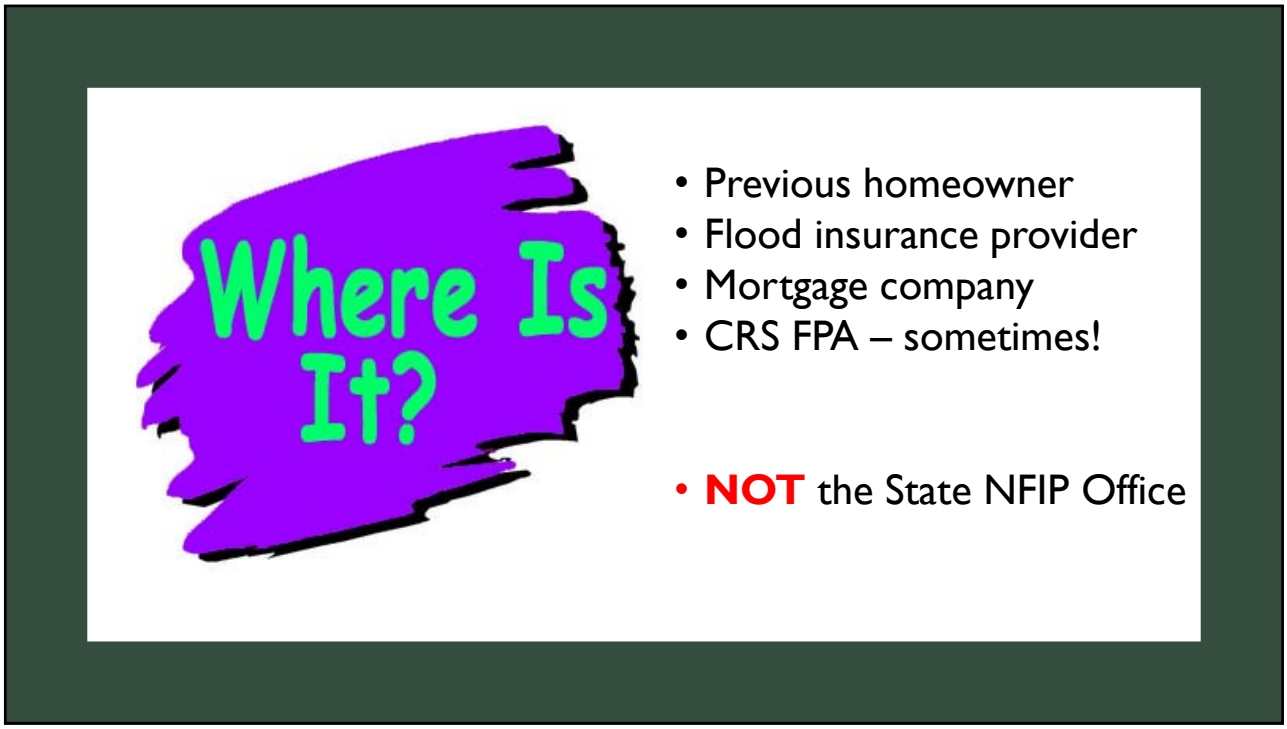
Where Is It?
• Previous homeowner
• Flood insurance provider
• Mortgage company
• CRS FPA – sometimes!
• NOT the State NFIP Office

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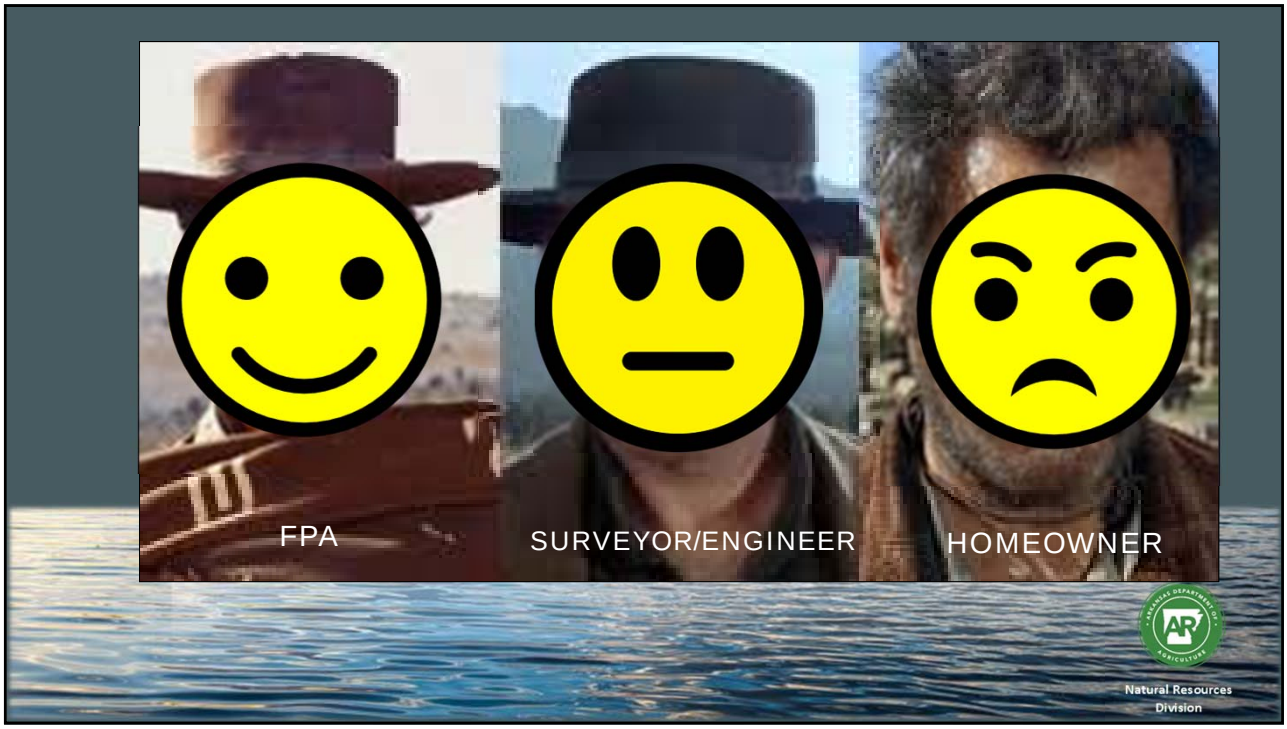
FPA
SURVEYOR/ENGINEER
HOMEOWNER
Natural Resources Division

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Any questions ?

Whit Montague
whitney.montague@arkansas.gov
501-682-3969

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