

FEMA Elevation Certificates

Janet Thigpen, CFM

Southern Tier Central

REGIONAL PLANNING & DEVELOPMENT BOARD



FEMA Elevation Certificate

Current Version: FEMA Form 086-0-33 (7/15)

Mandatory for use after December 31, 2016

Good until the Nov. 30, 2018, expiration date

Download from FEMA.gov

<https://www.fema.gov/media-library/assets/documents/160>

Fillable PDF

FEMA Elevation Certificate

- **Required for flood insurance rating of post-FIRM and some pre-FIRM buildings.**
- **Determine compliance with floodplain management ordinance.**
- **Support map revisions and amendments.**
- **Prerequisite for the Community Rating System.**

FEMA Elevation Certificate

- Does the EC certify that a building is “compliant?”

NO!

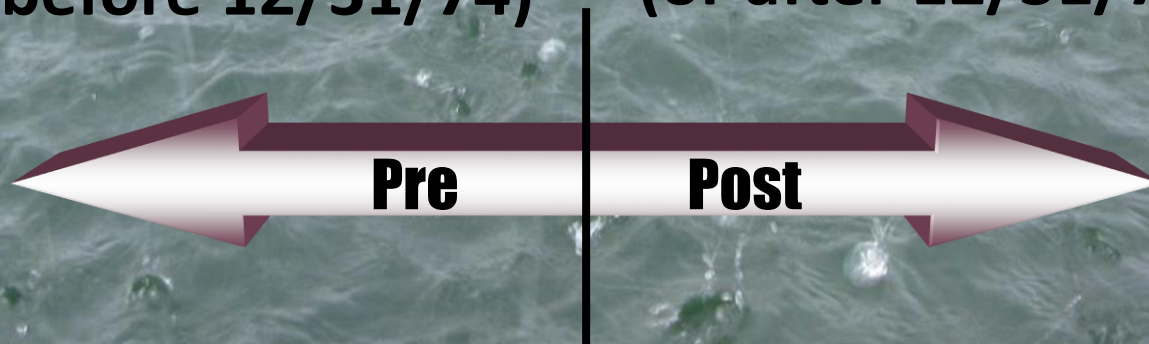
The Elevation Certificate is a report of existing conditions. The surveyor/engineer's stamp does not certify that the structure complies with federal, state, or local regulations; it only certifies the elevation data.

THE COMMUNITY must review the certificate for completeness and accuracy, and determine if the structure is compliant!

Insurance Rating Pre-FIRM and Post-FIRM

**Before the
Initial FIRM Date
(or on/before 12/31/74)**

**On or after the
Initial FIRM Date
(or after 12/31/74)**



FIRM = Flood Insurance Rate Map

When is an Elevation Certificate Required for Insurance Rating?

- **Zones B, C & X;**
Not in Special Flood Hazard Area (SFHA)
 - No elevation certificate needed
- **Post-FIRM Construction in SFHA Zones**
 - Elevation certificate is required
- **Pre-FIRM Construction in SFHA Zones**
 - Needed for optional elevation rating
 - Now: Elevation certificate is requested due to phasing out of subsidized rates

FEMA Elevation Certificate



FEMA

NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

2015 EDITION

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

OMB No. 1660-0008
Expiration Date: November 30, 2018

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: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____						
B11. Indicate elevation datum used for BFE in item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA						

FEMA Elevation Certificate Checklist

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

OMB No. 1660-0008
Expiration Date: November 30, 2018

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 CRS EC Checklist		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Either A2 of A3 must be completed, with City, State, and Zip		Company NAIC Number:
City	State	ZIP Code
<div style="text-align: right;"><input type="checkbox"/></div>		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Either A2 or A3 must be completed, with City, State, and Zip		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____		
A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> 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 Must be full Diagram Number (e.g., "1A" of "1B", not just "1")		
A8. For a building with a crawlspace or enclosure(s): If there is no crawlspace, or enclosure, or garage, you may leave the fields blank or enter "0" if that's the correct value.		
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 _____		

FEMA Elevation Certificate

Checklist

SECTION A—PROPERTY INFORMATION

A2 and A3

Complete street address or property description. In either case, the city, state, and zip code must be listed.

A6 Photographs: Photographs are not required for CRS credit. However, they are required for writing a flood insurance policy and they can be very helpful for compliance records.

A7 Building diagram number.

A8 a), b), and c) Enclosure and crawl space information for buildings that are diagram 6, 7, 8, or 9.

A9 a), b), and c) Attached garage information. If there is no attached garage, enter “N/A” in all three spaces. If there is an attached garage and there are no openings, the correct entry is “zero,” even if the garage is above the BFE.

A8 and

A9 If the square footage of the crawlspace or garage is larger than the square inches of the openings AND “(d) Engineered flood openings” is checked “yes,” then there must be a certification by a registered design professional or a copy of the ICC Evaluation Service report.

SECTION B—FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1 NFIP community name/community number.

B4 Map AND panel number.

B5 Panel number suffix. If the property is in an area revised by a LOMR, then B4, B5, and B7 must all be completed based on the LOMR.

B7 FIRM panel effective/revised date.

Section A

Property Information

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

OMB No. 1660-0008
Expiration Date: November 30, 2018

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 <input type="text"/>		Policy Number: <input type="text"/>
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <input type="text"/>		Company NAIC Number: <input type="text"/>
City <input type="text"/>	State <input type="text"/>	ZIP Code <input type="text"/>
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <input type="text"/>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <input type="text"/>		
A5. Latitude/Longitude: Lat. <input type="text"/> Long. <input type="text"/> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983		
A6. <u>Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.</u>		
A7. Building Diagram Number <input type="text"/>		
A8. For a building with a crawlspace or enclosure(s):		

FEMA Elevation Certificate

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

Policy Number:

City

State

ZIP Code

Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

Not needed for local permits or CRS

(But still a good idea)

Photo One

Section A

Property Information

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: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Building Diagram Number

Diagram 1A = slab-on-grade

DIAGRAM 1A

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

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

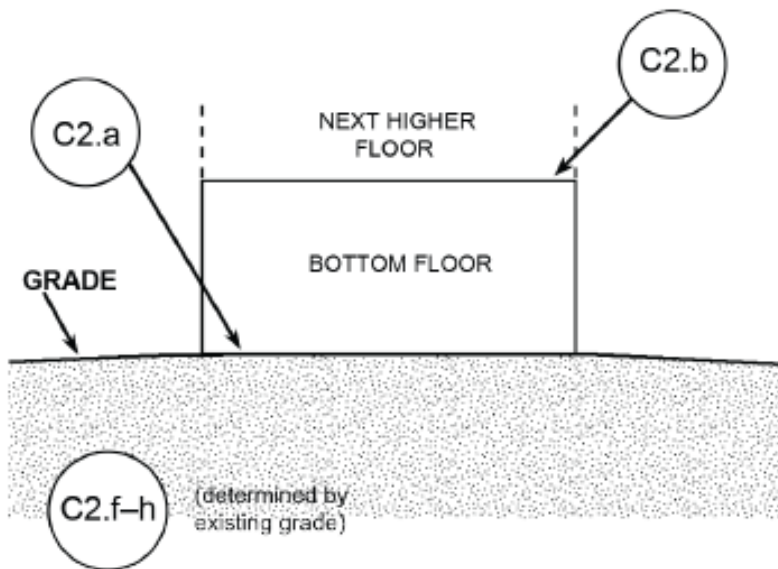
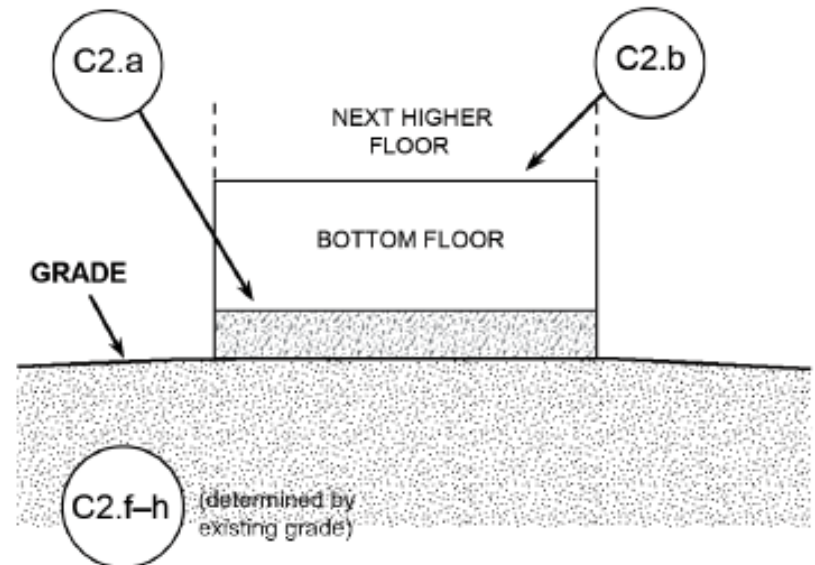


DIAGRAM 1B

All raised-slab-on-grade or slab-on-stem-wall-with-fill single- and multiple-floor buildings (other than split-level), either detached or row type (e.g., townhouses); with or without attached garage.

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



Building Diagram Number

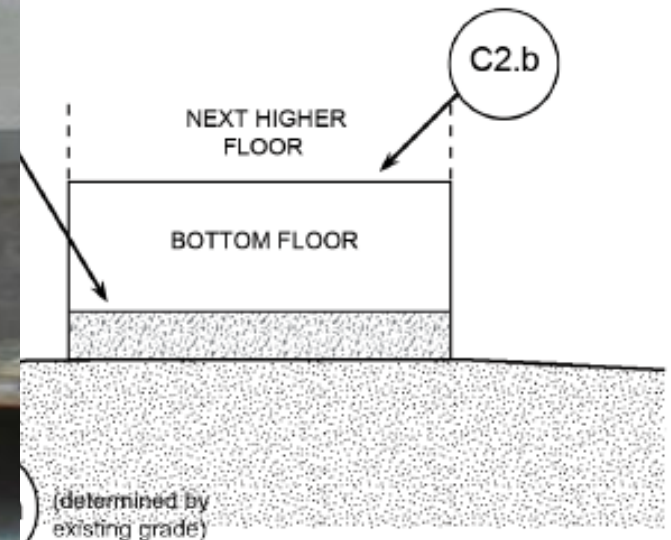
Diagram 1B = raised slab or foundation wall with fill



DIAGRAM 1B

slab-on-grade or slab-on-stem-wall-with-fill
multiple-floor buildings (other than split-
ter detached or row type (e.g., townhouses);
without attached garage.

Defining Feature – The bottom floor is at or above
grade on at least 1 side.*



Building Diagram Number

Diagram 2A & 2B = full basement

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.*

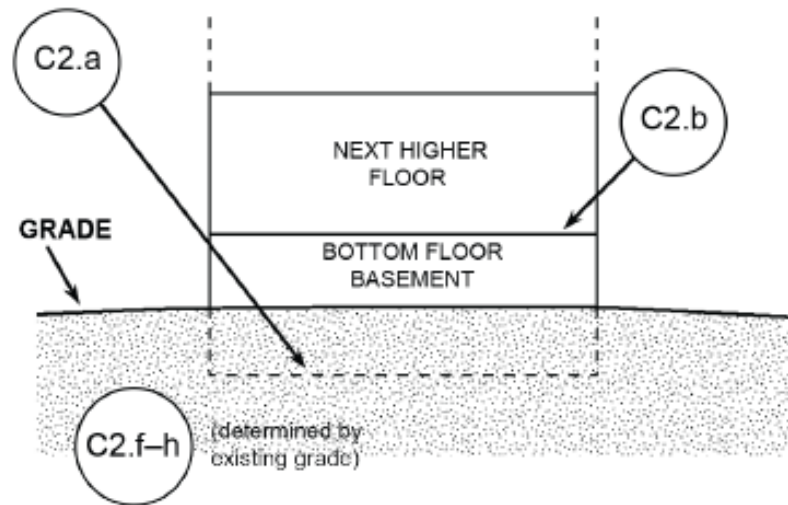
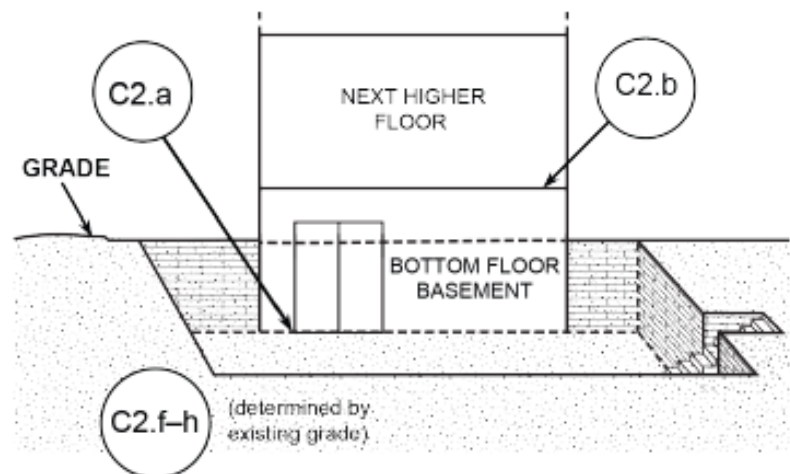


DIAGRAM 2B

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; most of the height of the walls is below ground level on all sides; and the door and area of egress are also below ground level on all sides.*



A floor that is below grade on all sides is considered a basement.

Building Diagram Number

Diagrams 3 & 4 = split-level

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.*

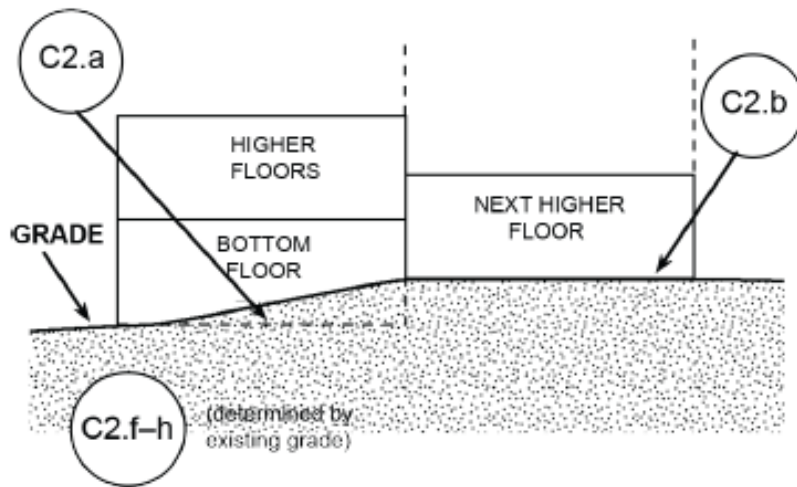
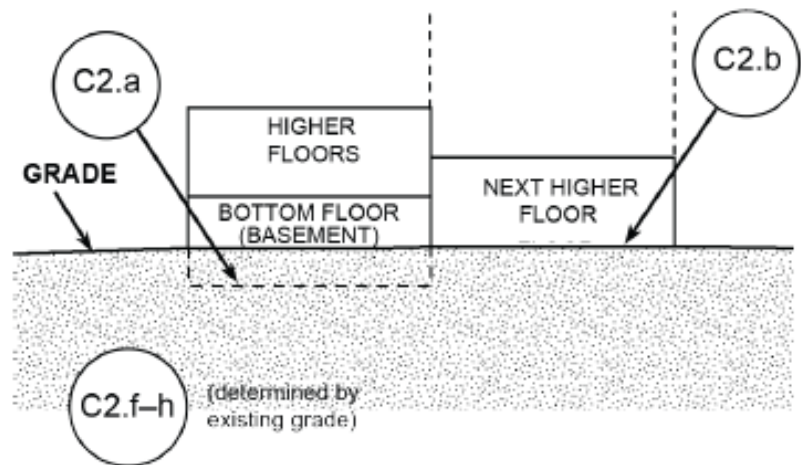


DIAGRAM 4

All split-level buildings (other than slab-on-grade), 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.*



Elevated Buildings

- Pilings
- Posts
- Piers
- Parallel Sheer Walls



Building Diagram Number

Diagrams 5 & 6 = elevated on piers, posts, piles, columns, piles, columns

DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of floodwaters (open lattice work and/or insect screening is permissible).

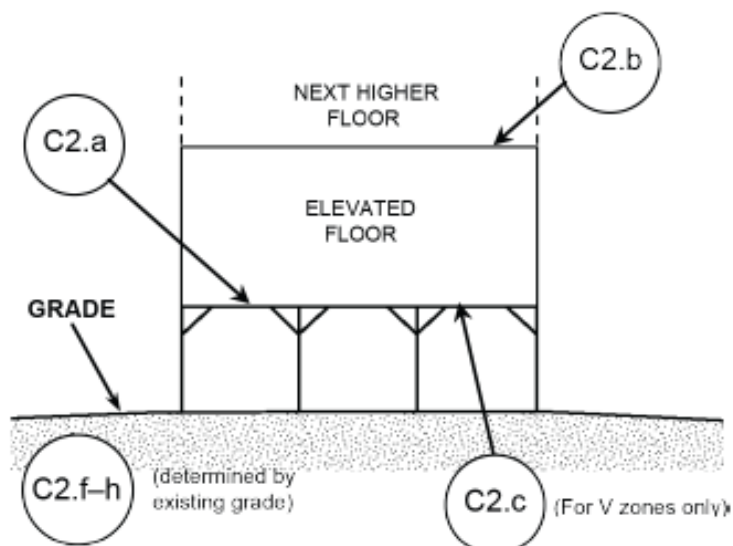
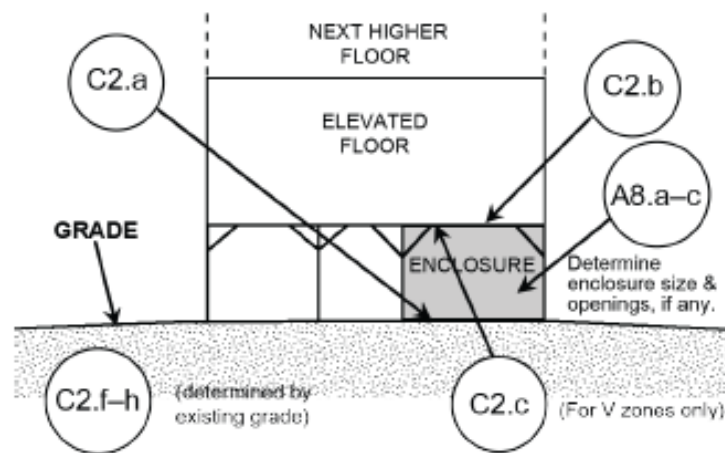


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

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.



Enclosure



That Portion of an Elevated Building Below the Lowest Elevated Floor that is Either Partially or Fully Shut in by Rigid Walls

Building Diagram Number

Diagrams 7 & 8 = elevated on foundation walls

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.

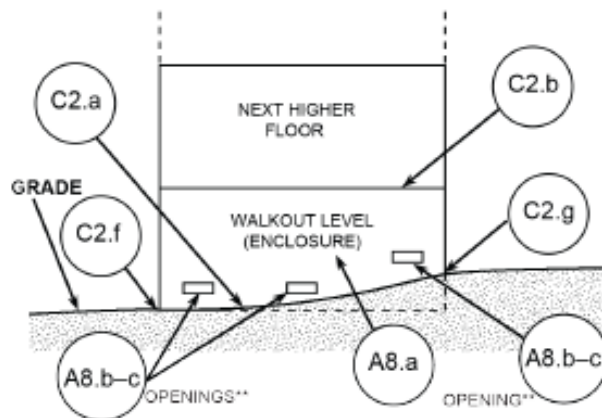
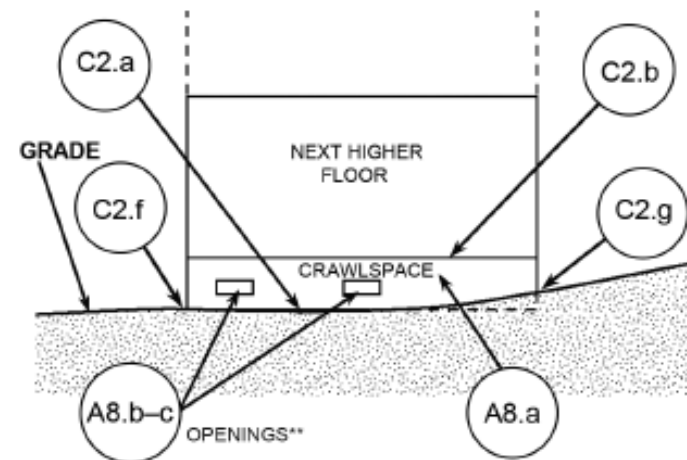


DIAGRAM 8

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.



Building Diagram Number

Diagram 9 = compliant sub-grade crawl space

Compliant in some states (not NY) if:

< 5' high,

< 2' below grade

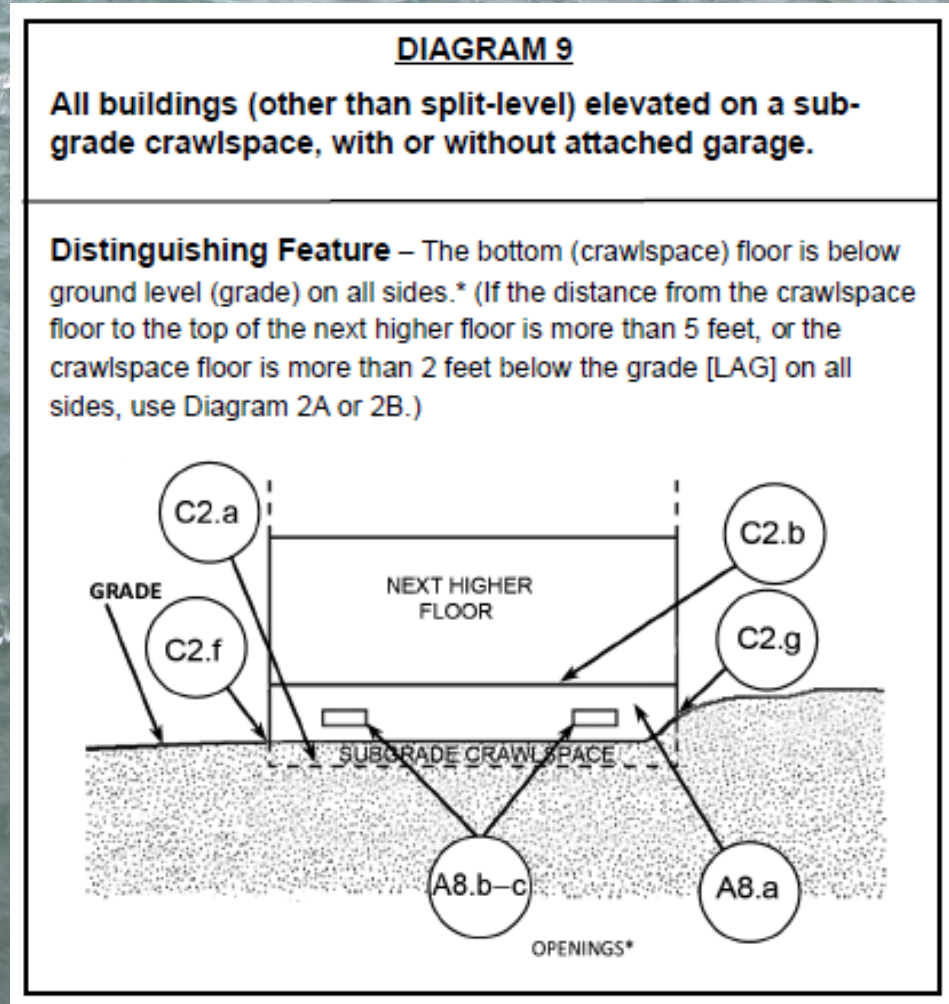
If sub-grade crawlspace:

≥ 5' high or

≥ 2' below grade

→ basement

Diagram 2A, 2B, or 4



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

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FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



FEMA Elevation Certificate

What diagram?



Section A

Property Information

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

Measure from exterior or interior grade, whichever is higher

Flood Opening



Flood Opening



Section A

Property Information

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

If "yes," attach certificate

Engineered Flood Openings



ICC EVALUATION
SERVICE

Most Widely Accepted and Trusted

ICC-ES Evaluation Report

ESR-2074

Reissued December 1, 2012

This report is subject to renewal February 1, 2015.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS
Section: 08 95 00—Vents

AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to

ESR-2074 | *Most Widely Accepted and Trusted*

Page 2 of 2

instructions, the applicable code and this report. The mounting straps allow mounting in wood, masonry and concrete walls up to 12 inches (305 mm) thick. In order to comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, the [REDACTED] AFFVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one AFFV for every 200 square feet (18.6 m²) of enclosed area, except that the

5.1 The [REDACTED] AFFVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.

5.2 The [REDACTED] AFFVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

Section B - Map Information

Complete the Elevation Certificate on the basis of the FIRM in effect at the time of the certification.

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number <input type="text"/>			B2. County Name <input type="text"/>		B3. State <input type="text"/>
B4. Map/Panel Number <input type="text"/>	B5. Suffix <input type="text"/>	B6. FIRM Index Date <input type="text"/>	B7. FIRM Panel Effective/ Revised Date <input type="text"/>	B8. Flood Zone(s) <input type="text"/>	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) <input type="text"/>
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: <input type="text"/> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

B4. The “Map/Panel Number” is always 10 digits.

NATIONAL FLOOD INSURANCE PROGRAM


FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
FLOODVILLE
FLOOD COUNTY, USA

PANEL 4 OF 20
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
990098 0038X

EFFECTIVE DATE
AUGUST 19, 1998



Federal Emergency Management Agency

Figure 1. Sample FIRM Panel
(Single Community)

Community Name

Community
Number

Panel or Map
Number

Effective Date

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

FLOOD COUNTY,
USA AND
INCORPORATED AREAS


PANEL 38 OF 40
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
FLOOD COUNTY	990098	0038	3
FLOODVILLE, TOWN OF	990098	0038	2

MAP NUMBER
9900980038X

EFFECTIVE DATE
AUGUST 19, 1998



Federal Emergency Management Agency

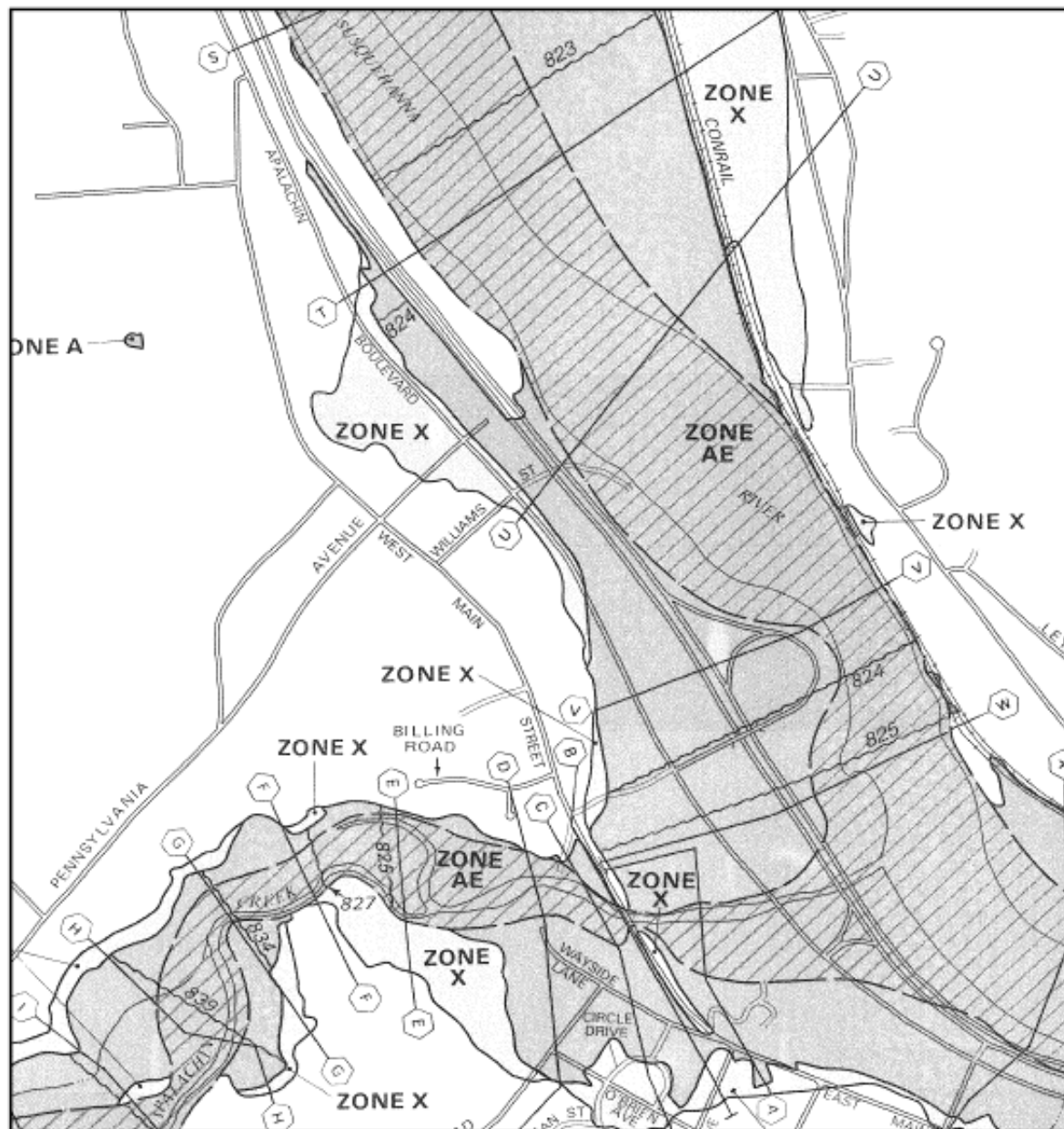
Figure 2. Sample FIRM Panel
(Countywide)

Section B - Map Information

Complete the Elevation Certificate on the basis of the FIRM in effect at the time of the certification.

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number <input type="text"/>			B2. County Name <input type="text"/>		B3. State <input type="text"/>
B4. Map/Panel Number <input type="text"/>	B5. Suffix <input type="text"/>	B6. FIRM Index Date <input type="text"/>	B7. FIRM Panel Effective/ Revised Date <input type="text"/>	B8. <u>Flood Zone(s)</u> <input type="text"/>	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) <input type="text"/>
<p>B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____</p> <p>B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____</p> <p>B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: <input type="text"/> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA</p>					

**B8 – This is the flood zone affecting the
STRUCTURE only.**



APPROXIMATE SCALE

1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
FLOOD INSURANCE RATE MAP**

**TOWN OF
OWEGO,
NEW YORK
TIOGA COUNTY**

PANEL 20 OF 30

(SEE MAP INDEX FOR PANELS NOT PRINTED)

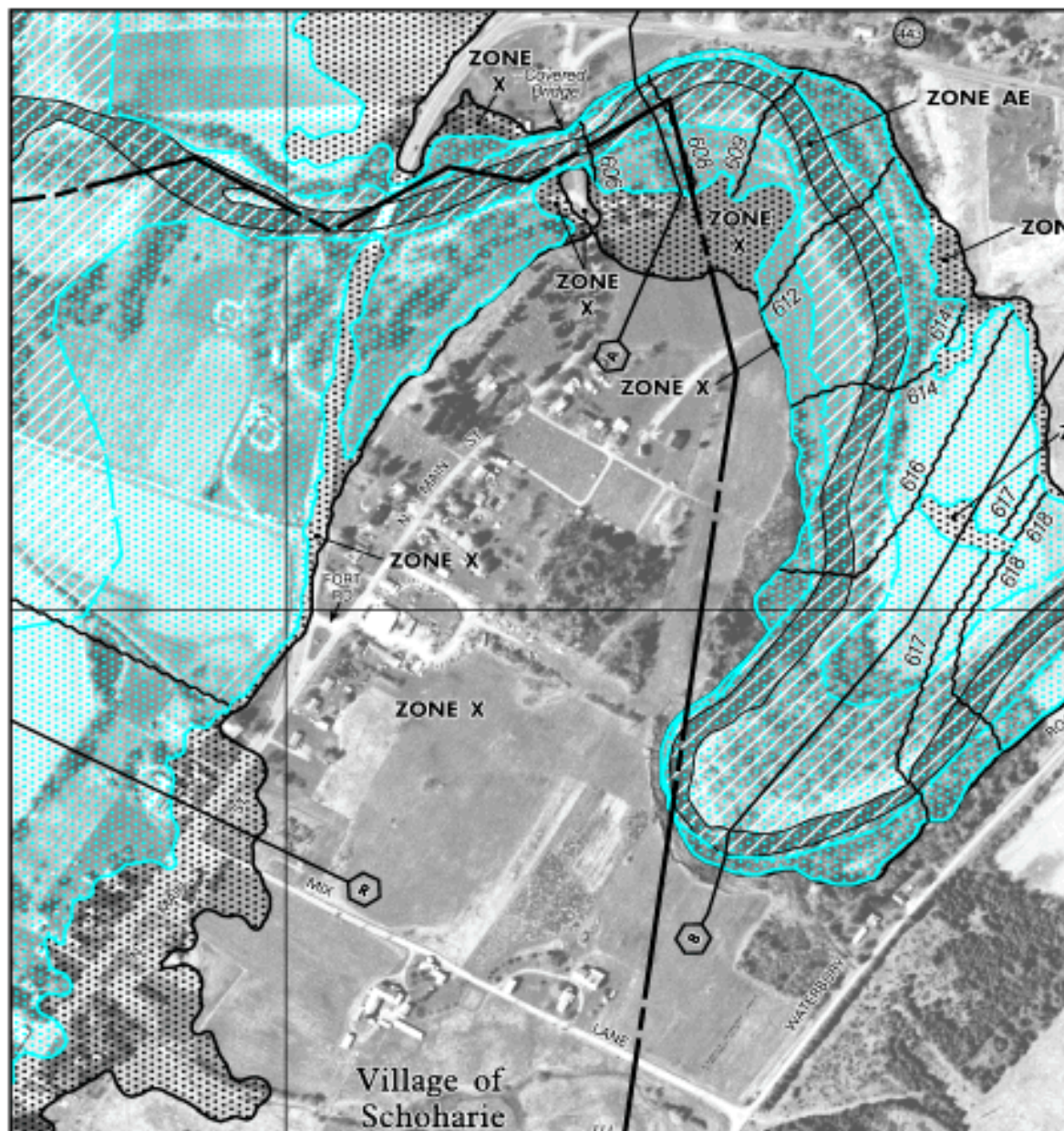
**COMMUNITY-PANEL NUMBER
360839 0020 D**

**MAP REVISED:
JANUARY 17, 1997**



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



onal Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'

50 0 500 1000 FEET

NFIP

PANEL 0191E

FIRM

FLOOD INSURANCE RATE MAP

for Schoharie County, New York
All Jurisdictions

CONTAINS:

COMMUNITY

NUMBER

SCHOHARIE, TOWN OF 361198

SCHOHARIE, VILLAGE OF 361061

PANEL 191 OF 510

MAP SUFFIX: E

SEE MAP INDEX FOR FIRM PANEL LAYOUT

Notice to User: The **Map Number** shown below should be used when placing this order; the **Community Number** shown below should be used on insurance applications for the subject community.



MAP NUMBER

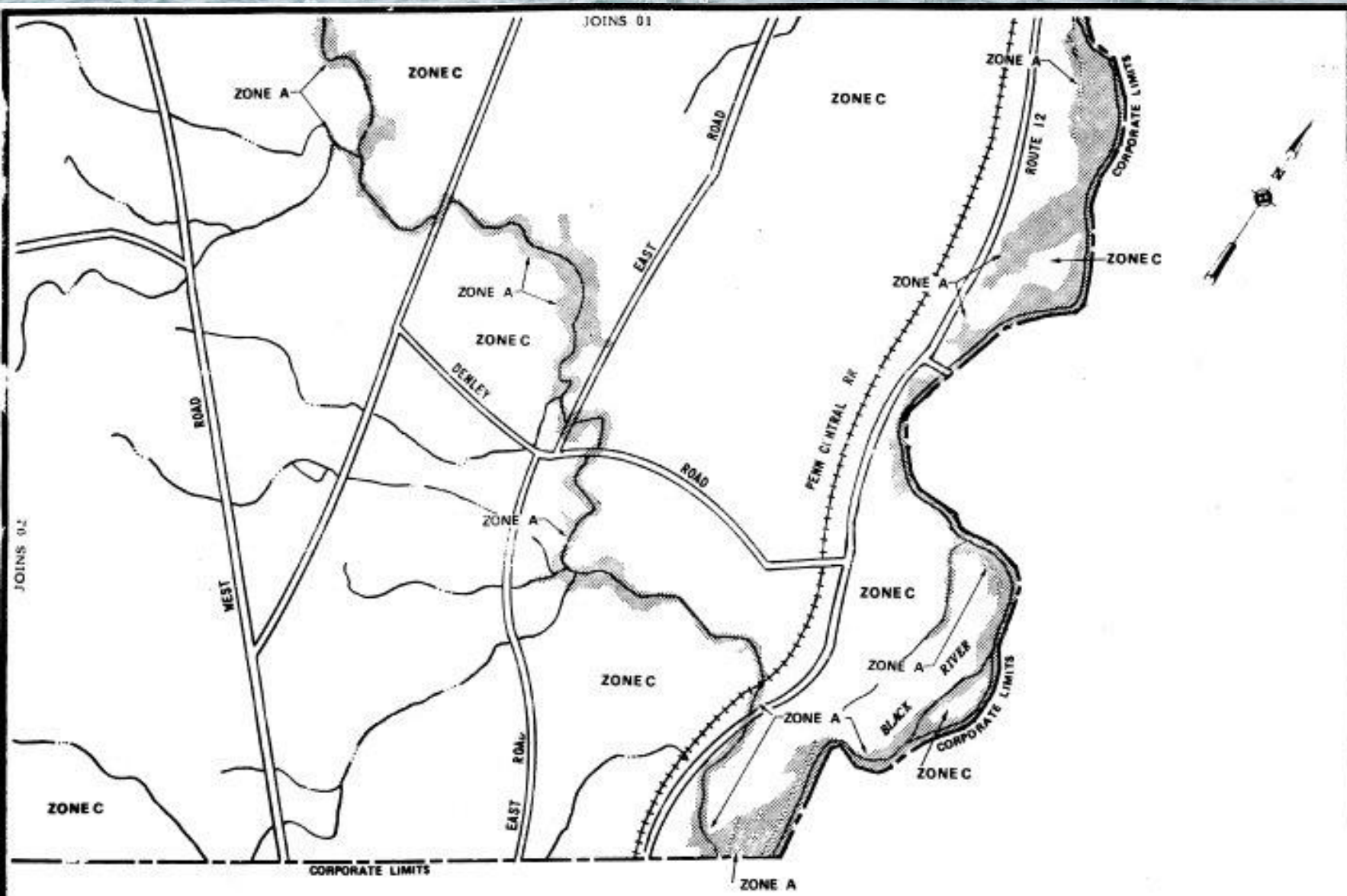
36095C0191E

EFFECTIVE DATE

APRIL 2, 2004

Federal Emergency Management Agency

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federal emergency management agency

TOWN OF LEYDEN, NY
LEWIS COUNTY

FLOOD INSURANCE RATE MAP
COMMUNITY NUMBER 360369 B

EFFECTIVE DATE
JUNE 19, 1985



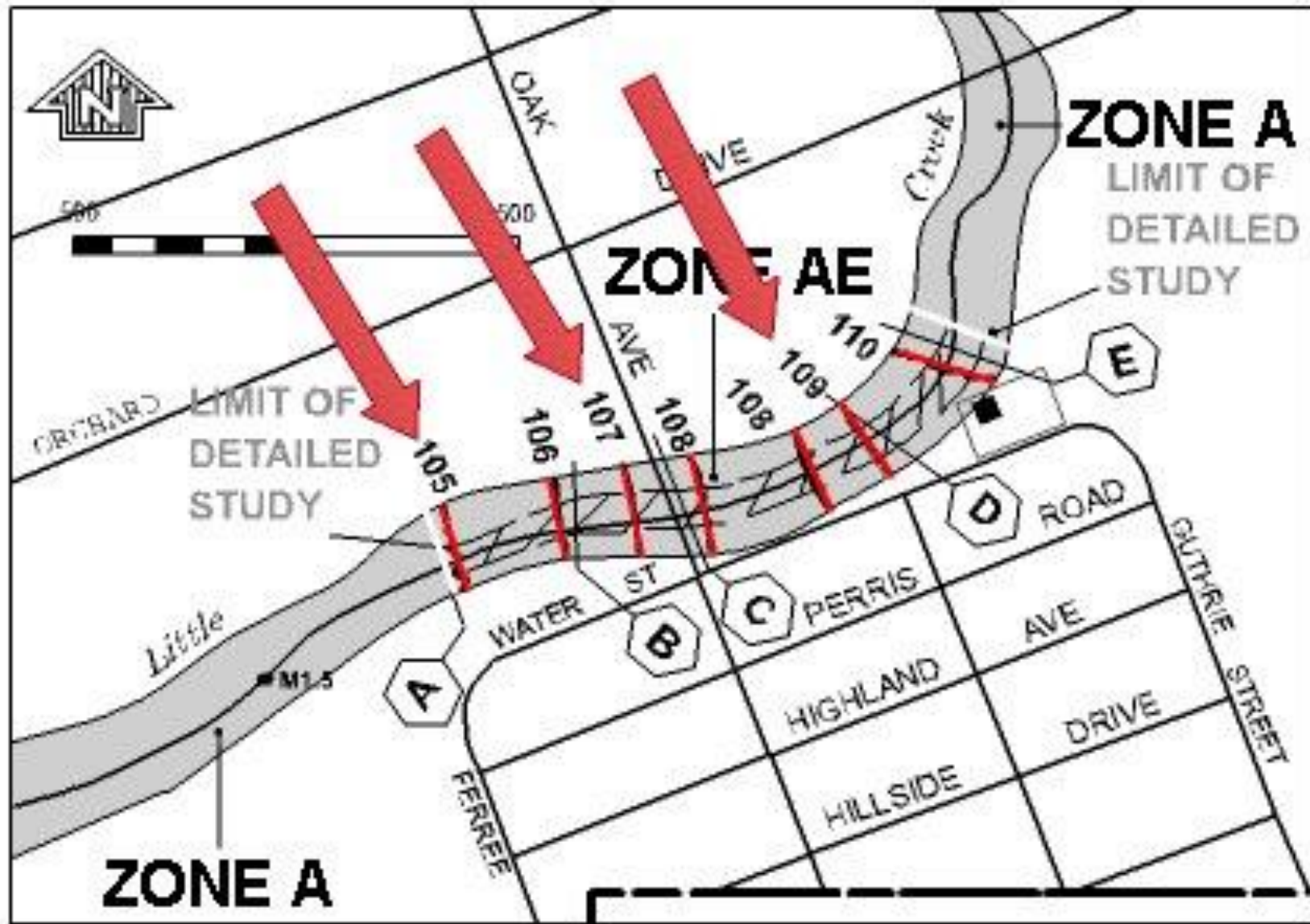
Section B - Map Information

Complete the Elevation Certificate on the basis of the FIRM in effect at the time of the certification.

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number <input type="text"/>			B2. County Name <input type="text"/>		B3. State <input type="text"/>
B4. Map/Panel Number <input type="text"/>	B5. Suffix <input type="text"/>	B6. FIRM Index Date <input type="text"/>	B7. FIRM Panel Effective/ Revised Date <input type="text"/>	B8. Flood Zone(s) <input type="text"/>	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) <input type="text"/>
B10. <u>Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:</u> <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. <u>Indicate elevation datum used for BFE in Item B9:</u> <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. <u>Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: <input type="text"/> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

B9 – Enter BFE to the nearest tenth of a foot.

BFE from FIRM



Flood Insurance Study (FIS)

FLOOD INSURANCE STUDY



TOWN OF HANOVER,
NEW YORK
CHAUTAUQUA COUNTY



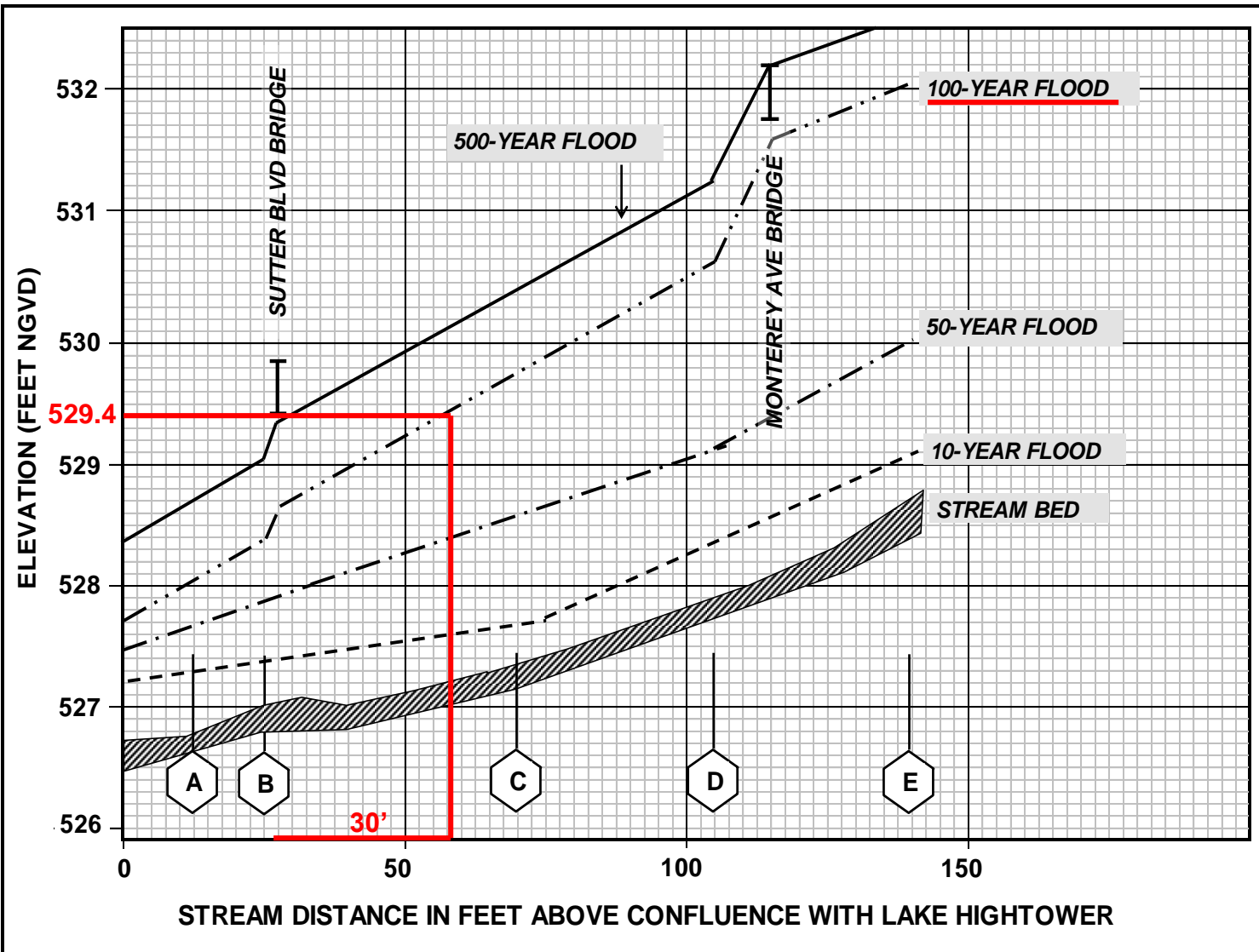
JUNE 18, 1964



Federal Emergency Management Agency

COMMUNITY NUMBER 196400

BFE from FIS Profile



Section C

Building Elevation Information

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☐ Finished Construction

*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/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

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 measurement used.

- | | | | |
|---|---|-------------------------------|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>Every time</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>If >1 floor</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>V Zones</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>If attached garage</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>Every time</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>Every time</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>Every time</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>If attached deck</u>
<u>or stairs</u> | <input type="checkbox"/> feet | <input type="checkbox"/> meters |

Elevations to the nearest tenth of a foot

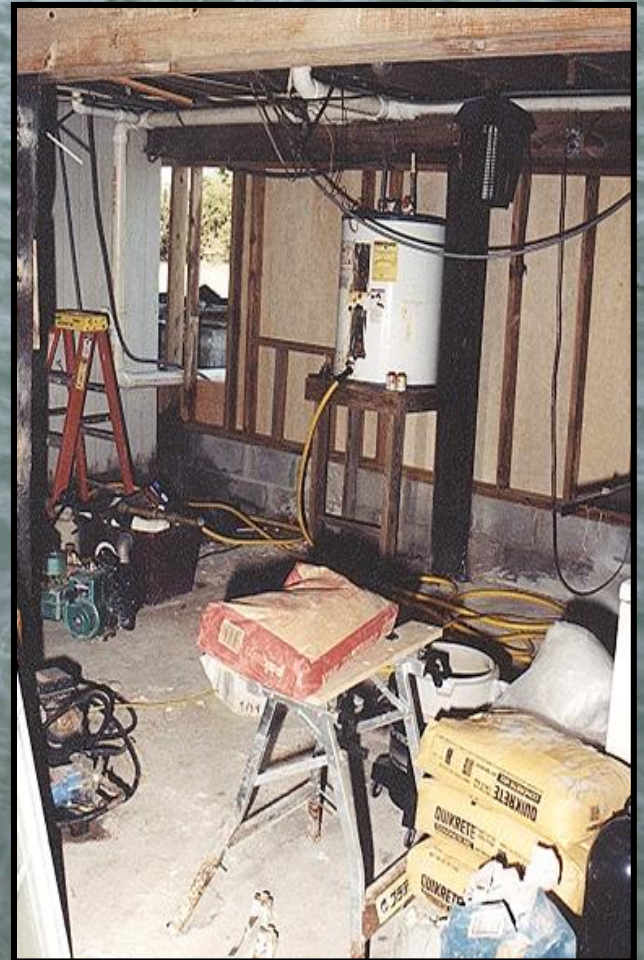
Machinery and Equipment

- In line C2e and Comments:

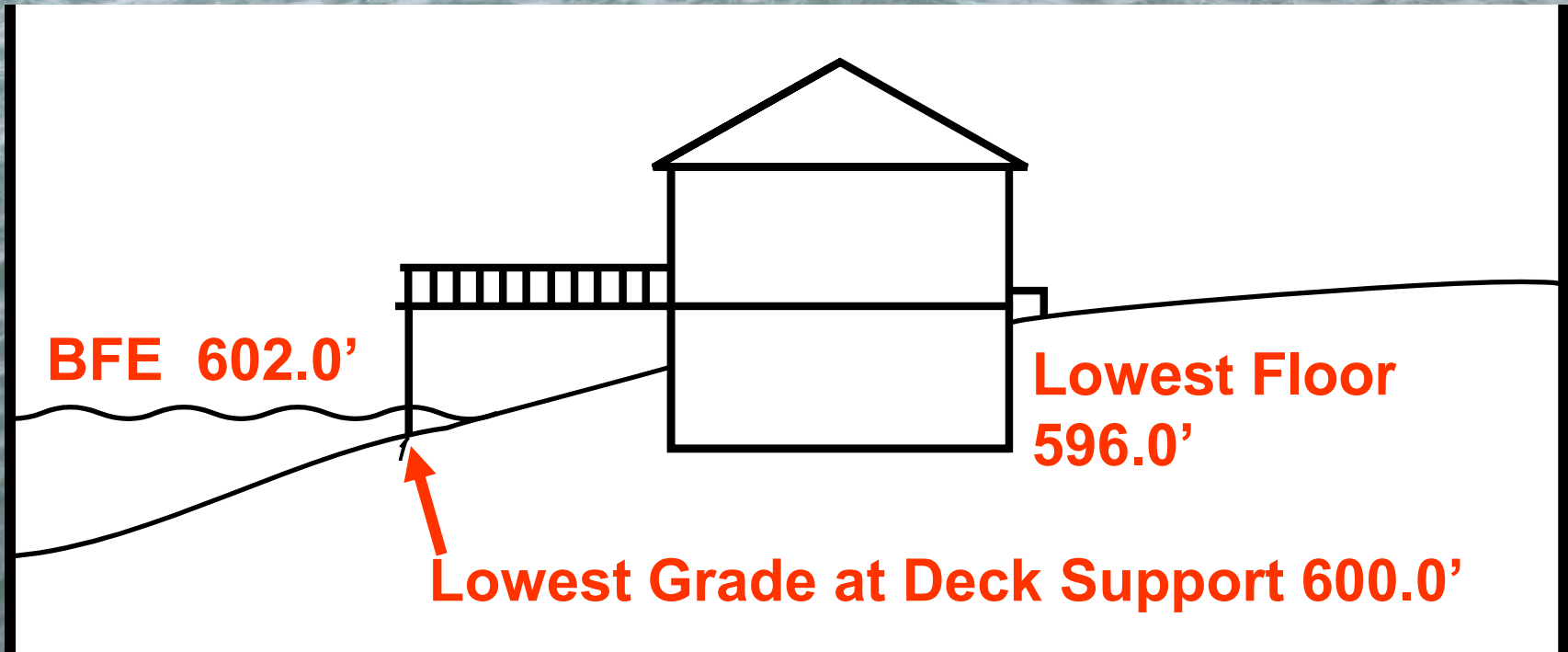
- Furnaces
- Hot water heaters
- Heat pumps
- Air conditioners
- Elevators & equipment

- In Comments only:

- Ductwork
- Breaker boxes/outlets



Lowest Grade at Deck Support or Stairs



C2.h below BFE

NOT REMOVED

Lowest Grade at Deck Support or Stairs



Establishing the Lowest Floor

Bottom Floor

- Objective
- Measured by the surveyor
- Floor with the lowest elevation

Lowest Floor

- Interpreted based on multiple factors
- Used to determine compliance
- Used for rating insurance

The “lowest floor” for insurance and compliance is not necessarily the “bottom floor” on the elevation certificate.

Lowest Floor

Slab-on-grade (Diagram 1A, 1B, & 3)

- **Top of bottom floor → C2.a**

Below-grade basement/crawl space (Diag. 2A, 2B, 4, & 9)

- **Top of basement floor → C2.a**

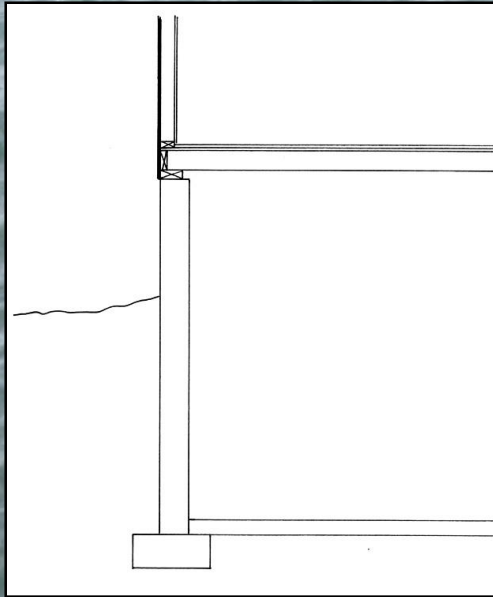
Elevated in A zone (Diagram 5, 6, 7, & 8)

- **No enclosures below elevated floor → C2.a**
- **Compliant enclosures below elevated floor → C2.b**
- **Non-compliant enclosures → C2.a**

In V zone (coastal w/wave action) → C2.c

Usually...

Where's the Lowest Floor?



Where's the Lowest Floor?



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

C2.c?

C2.d?

C2.e?

C2.f?

C2.g?

C2.h?



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

C2.c?

C2.d?

C2.e?



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

C2.c?

C2.d?

C2.e?

C2.f?

C2.g?

C2.h?



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

C2.d?

C2.e?

C2.h?



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

C2.d?

C2.h?

Zone AE



Elevations

Which number is:

Lowest Floor?

C2.a?

C2.b?

Zone AE

1

2



Section D

Surveyor Certification

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

Title

Company Name

Address

City

State

ZIP Code

Signature

Date

Telephone



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)

Section E

Building Elevation Information

Without BFE

SECTION E – BUILDING ELEVATION INFORMATION **SURVEY NOT REQUIRED** FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is . ☐ feet ☐ meters ☐ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is . ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is . ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is . ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is . ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

Information is certified in Section F or G.

Can be done by local official.

Section F

Property Owner Certification

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

Complete Section F if no BFE and Section E is used

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

☐ Check here if attachments.

Section G

Community Information

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
<input type="text"/>	<input type="text"/>	<input type="text"/>

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
<input type="text"/>	<input type="text"/>

Community Name	Telephone
<input type="text"/>	<input type="text"/>

Signature	Date
<input type="text"/>	<input type="text"/>

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

FEMA Elevation Certificate

Helpful Hints for Local Floodplain Administrators

- **Verify all data for accuracy**
- **Establish a review process that determines if the EC is complete (no blanks) and correct**
- **Make an EC for “finished construction” a condition for certificate of compliance**
- **Fill out as much of the EC as you can at the time of the permit application (i.e.: Section A and B)**

Common Errors

- **Counting blocked flood openings**
- **Counting flood openings that are too high**
- **Incorrect community or panel number**
- **Assuming that a structure built on fill above BFE is in Zone X**
- **BFE from FIRM instead of FIS profile**
- **Not doing “finished construction” EC with all equipment and final grading**

Common Errors

- Using the wrong datum—convert to the one used on the FIRM
- Missed machinery—go inside!
- Leaving fields blank
- Not enough photos—show all important features
- NO COMMENTS!
- Not using Section G for community documentation of compliance

Final Exam

- How are Elevation Certificates used?
- How are “building diagram numbers” used?
- What is the definition of “basement” in the National Flood Insurance Program?
- Is the elevation of the “lowest floor” for insurance or compliance always the “bottom floor” on the Elevation Certificate?

Final Exam



Final Exam



Final Exam



Final Exam



QUESTIONS?

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