IAFSM 2010 Elevation Certificate 101

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Paul Osman, Manager Statewide Floodplain Programs Illinois Office of Water Resources 217-782-4428 Paul.osman@illinois.gov

The Elevation Certificate

U.S. DEPARTMENT OF HOMELAND SECURITY	LEVATION CERTIFICATE	OMB No. 1660-0008		NT: In these spaces, copy the correspo		For Insurance Company Use:
Federal Emergency Management Agency		Expires March 31, 2012	Builting Stre	eet Address (including Apt., Unit, Suite, and/or B	log. No.) or P.O. Route and Box No.	Policy Number
	tant: Read the instructions on pages 1.9		City		State ZIP C	de Company NAIC Number
A1. Building Owner's Name	SECTION A - PROPERTY INFORMATION	For Insurance Company Use: Policy Number		SECTION D - SURVEYOR	ENGINEER, OR ARCHITECT CERTIFICATIO	N (CONTINUED)
A2. Building Street Address (including Apt., Unit, Suite, and	dies Dide, No.) as D.O. Davis and Davida	Company NAIC Number	Copy both si		ty official, (2) insurance agent/company, and (3) bu	
A2. Building Street Address (including Apt., Unit, Suite, and	d/or Bidg. No.) or P.O. Route and Box No.	Company NAIC Number	Comments	action and Electration octanicate for (1) communi-	i onois, (2) interence agein company, and (c) of	
City	State	ZIP Code				
A3. Property Description (Lot and Block Numbers, Tax Par	rcel Number, Legal Description, etc.)					
A4. Building Use (e.g., Residential, Non-Residential, Additi			Signature		Date	Check here if attachments
		Datum: NAD 1927 NAD 1983	SECTIO	ON E - BUILDING ELEVATION INFORMA	TION (SURVEY NOT REQUIRED) FOR ZON	
A6. Attach at least 2 photographs of the building if the Cert A7. Building Diagram Number	tricate is being used to obtain flood insurance.					
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s)	A9. For a building with an att sq ft a) Square footage of att		For Zones A and C. For	AO and A (without BFE), complete Items E1-E5. Items E1-E4 use natural grade if available. Ch	If the Certificate is intended to support a LOMA or teck the measurement used. In Puerto Rico only, or	LOMR-F request, complete Sections A, B, nter meters
b) No. of permanent flood openings in the crawlspace	e or b) No. of permanent floo	d openings in the attached garage	E1. Provid	e elevation information for the following and che	eck the appropriate boxes to show whether the elev	
enclosure(s) within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b	within 1.0 foot above sg in c) Total net area of floor		grade a) Top	(HAG) and the lowest adjacent grade (LAG).	e or enclosure) is Difeet Dimete	rs Dahove or Dhelow the HAG
d) Engineered flood openings? Yes No		nings? Yes No	b) Top	of bottom floor (including basement, crawlspace	e, or enclosure) is feet meters e, or enclosure) is feet meters	rs above or below the LAG.
SECTION B - FLO	OOD INSURANCE RATE MAP (FIRM) INFORMATIO	N	E2. For Bu (eleval	ilding Diagrams 6-9 with permanent flood open tion C2.b in the diagrams) of the building is	ings provided in Section A Items 8 and/or 9 (see particular section A Items 1 above or 1	ges 8-9 of Instructions), the next higher floor below the HAG.
B1. NFIP Community Name & Community Number	B2. County Name	B3. State	E3. Attach	ed garage (top of slab) is	feet meters above or below the HAG.	
			E4. Top of E5. Zope /	f platform of machinery and/or equipment servic AQ only: . If no flood depth number is available, i	ing the building is, feet in met s the top of the bottom floor elevated in accordance	ers above or below the HAG.
B4. Map/Panel Number B5. Suffix B6. FIRM In Date	ndex B7. FIRM Panel B8. Flood Effective/Revised Date Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)	ordina	nce? Yes No Unknown. The loc	al official must certify this information in Section G.	with the continuinty's nooppart management
				SECTION F - PROPERTY O	WNER (OR OWNER'S REPRESENTATIVE)	CERTIFICATION
B10. Indicate the source of the Base Flood Elevation (BFE) FIS Profile FIRM Community De					to completes Sections A, B, and E for Zone A (with B, and E are correct to the best of my knowledge.	out a FEMA-issued or community-issued BFE)
B11. Indicate elevation datum used for BFE in Item B9:	NGVD 1929 NAVD 1988 Other (Describe)			mer's or Owner's Authorized Representative's N		
B12. Is the building located in a Coastal Barrier Resources Designation Date	System (CBRS) area or Otherwise Protected Area (OPA)?	Yes No	Address		City	State ZIP Code
SECTION C - BUILDI	ING ELEVATION INFORMATION (SURVEY REQUI	RED)	Signature		Date	Telephone
C1. Building elevations are based on: Construction D		Finished Construction	Comments			
*A new Elevation Certificate will be required when const C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, below according to the building diagram specified in Iten	V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/	AH, AR/AO. Complete Items C2.a-h				Check here if attachments
Benchmark Utilized	Vertical Datum			SECTION G	- COMMUNITY INFORMATION (OPTIONAL	
Conversion/Comments					ninister the community's floodplain management or em(s) and sign below. Check the measurement us	
a) Top of bottom floor (including basement, crawlspace		eters (Puerto Rico only)	G1. 🗂 The	information in Section C was taken from other	documentation that has been signed and sealed by (Indicate the source and date of the elevation dat.	a licensed surveyor, engineer, or architect who
 b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (eters (Puerto Rico only) eters (Puerto Rico only)			(indicate the source and date of the elevation data ding located in Zone A (without a FEMA-issued or o	
d) Attached garage (top of slab)	feet 🗌 m	eters (Puerto Rico only)			for community floodplain management purposes.	
 Lowest elevation of machinery or equipment servici (Describe type of equipment and location in Comm 		eters (Puerto Rico only)	G4. Permit N	lumber G5. Date Permit Is	sued G6. Date Certificate	Of Compliance/Occupancy Issued
f) Lowest adjacent (finished) grade next to building (L	_AG) feet m	eters (Puerto Rico only)				
 g) Highest adjacent (finished) grade next to building (F h) Lowest adjacent grade at lowest elevation of deck 		eters (Puerto Rico only) eters (Puerto Rico only)		mit has been issued for: New Construction n of as-built lowest floor (including basement) of		neters (PR) Datum
structural support				n of as-built lowest floor (including basement) of in Zone AO) depth of flooding at the building sit		neters (PR) Datum
	EYOR, ENGINEER, OR ARCHITECT CERTIFICATI			nity's design flood elevation		neters (PR) Datum
This certification is to be signed and sealed by a land surver information. I certify that the information on this Certificate is	represents my best efforts to interpret the data available.	tion	Local Official	l'e Mana	Title	
I understand that any false statement may be punishable by						
Check here if comments are provided on back of form.	Were latitude and longitude in Section A provided by licensed land surveyor?	a PLACE SEAL	Community f	Name	Telephone	
Certifier's Name	License Number	HERE	Signature		Date	
Title Company Nar	me	—	Comments			
Address City	State ZIP Code	—				
Signature Da	ate Telephone					Check here if attachments
FEMA Form 81-31, Mar 09	See reverse side for continuation.	Replaces all previous editions	FEMA Form	81-31, Mar 09		Replaces all previous editions

What About The Date??

- FEMA's new Elevation Certificate (EC) was approved for use, effective March 16, 2009, through March 31, 2012.
- The new EC will be phased in on a voluntary basis until March 31, 2010.
- Existing (older) Elevation Certificates may be used until March 31, 2010.
- > Elevations certified on or after April 1, 2010, must be submitted on the new form.

Section A What's New

Identify whether the enclosure, crawlspace, or garage has <u>engineered flood openings</u>.

Two new <u>Building Diagrams</u> have been added:

- 1. The new Diagram 1B is for raised-slab-on-grade or slab-on-stem-wall-with-fill single- and multiple-floor buildings.
- 1. The new Diagram 9 is for all buildings (other than split-level) elevated on a subgrade crawlspace.

Section A – Property Information

U.S. DEPARTMENT OF HOMELAND SECURITY ELEV Federal Emergency Management Agency		RTIFICATE	OMB No. 1660-0008 Expires February 28, 2009
	Road the instruc	tions on pages 1-8.	
SEC	TION A - PROPERT	Y INFORMATION	For Insurance Company Use:
A1 Building Owner's Name 65%			Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or I	Bldg. No.) or <u>P.O. Rou</u>	te and Box No.	Company NAIC Number
City State ZIP Code			
A3. Property Description (Lot and Block Numbers, Tax Parcel N	lumber, Legal Descrip	tion, etc.)	
A4. Building Use (e.g., Residential, Non-Residential, Addition, A	Accessory, etc.)		
A5. Latitude/Longitude: Lat. Long.		Horizontal Datun	n: 🔲 NAD 1927 🔲 NAD 1983
A6. Attach at least 2 photographs of the building if the Certificat A7. Building Diagram Number	e is being used to obt	ain flood insurance.	
A8. For a building with a crawl space or enclosure(s), provide		A9. For a building with an atta	ached garage, provide:
 a) Square footage of crawl space or enclosure(s) 	sq ft	 a) Square footage of atta 	
b) No. of permanent flood openings in the crawl space or			d openings in the attached garage
enclosure(s) walls within 1.0 foot above adjacent grade			bove adjacent grade
c) Total net area of flood openings in A8.b	sq in	c) Total net area of floor	d openings in A9.b sq in

Background information on the property....NOT you.

Section A- Property Information Photo Requirements

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

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires February 28, 2009

Important: Read the instructions on pages 1-8.

SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name 65%	Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or <u>P.O. Route</u> 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 crawl space or enclosure(s), provide A9. For a building with an attac	<u> </u>
a) Square footage of crawl space or enclosure(s) sq ft a) Square footage of attac	·
	openings in the attached garage
enclosure(s) walls within 1.0 foot above adjacent grade walls within 1.0 foot ab	ove adjacent grade
c) Total net area of flood openings in A8.b sq in c) Total net area of flood	openings in A9.b sq in

Section A – Property Information Building Diagram

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

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires February 28, 2009

Important: Read the instructions on pages 1-8.

SECTION A - PROPER	TY INFORMATION For Insurance Company Use:		
A1. Building Owner's Name 65%	Policy Number		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Ro	oute and Box No. Company NAIC Number		
City State ZIP Code			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description	ption, etc.)		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	-		
A5. Latitude/Longitude: Lat. Long. NAD 1927 🗌 NAD 19			
A6 Attach at least 2 photographs of the building if the Certificate is being used to ob	otain flood insurance.		
A7. Building Diagram Number			
A8. For a building with a crawl space or enclosure(s), provide	A9. For a building with an attached garage, provide:		
a) Square footage of crawl space or enclosure(s) sq ft	a) Square footage of attached garage sq ft		
b) No. of permanent flood openings in the crawl space or	b) No. of permanent flood openings in the attached garage		
enclosure(s) walls within 1.0 foot above adjacent grade	walls within 1.0 foot above adjacent grade		
c) Total net area of flood openings in A8.b sq in	c) Total net area of flood openings in A9.b sq in		



Federal Emergency Management Agency National Flood Insurance Program

Elevation Certificate

Building Diagram 1

Example Photographs



BUILDING DIAGRAMS

The following eight diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item C2 and the elevations in Items C3a-C3g.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).

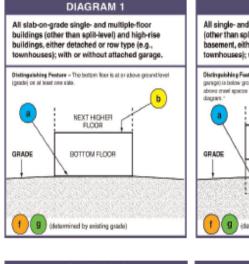
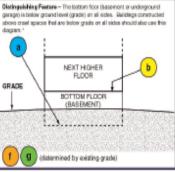


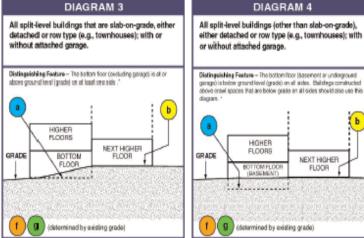
DIAGRAM 2

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



NEXT HIGHER

FLOOR



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc. Instructions - Page 6

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 flood waters jopen lattice work. and/or readly removable insoch acreaning is permissible). NEXT HIGHER b FLOOR ELEVATED FLOOR OR ADE (For V zones idetermined by С existing grade) only)

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 a enclosed, either partially or fully. In A Zones, the partially or fails ondo sod area bolow the elevated flaor is with or without openings" present in the walls of the enclosure. Indicate information about openings in Section C. Building Elevation Information (Survey Required).

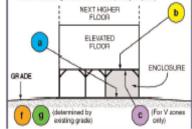
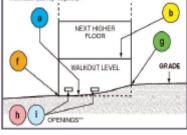


DIAGRAM 8

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 one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

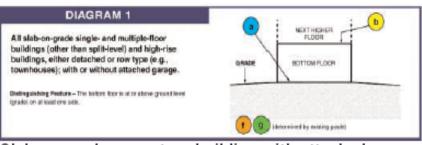
Distinguishing Feature - For all zones, the area below the first floor is endoard by selid or partial perimeter walls. In all Azones, the crawl space is with or without epenings** present in the walls of the crawl space. Indicate information about the openings in Section C, Building Elevation Information (Survey Required).



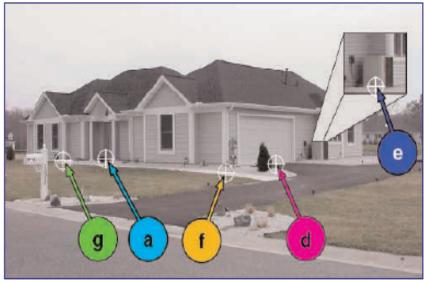
All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side, with or without attached garage. Distinguishing Feature -For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all Azones, the crawl space is with or with out openings" present in the walls of the provilege to. Indicate information about the openings in Section C, Building Bevalion Information (Survey Required). b g NEXT HIGHER FLOOR GRADE

P P h OPENINGS" **GRAIMLSPACE**

** An "opening" (flood vent) is defined as a permanent opening in a wall that allows for the free passage of water automatically In both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawl spaces with a lotal net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the endosed area. If a building has more than one endosed area, each area must have openings on exterior wails to allow floodwater to directly enter. The bottom of the openings must be no higher than one toot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered protessional engineer or architect that the design will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window a door, or a garage door is not considered an opening.



Slab-on-grade, one story building with attached garage.



- Top of bottom floor (measure at doorsill)
- OAttached garage (measure at top of slab)
- SElevation of machinery and equipment (measure at top of platform)
- OLowest adjacent finished grade
- Highest adjacent finished grade
- 🙆 and 🕐 Indicate No Openings in the garage
- 🕒 and 🖸 Not Applicable

Diagram 1 Examples - Page 2

Section A- Property Information Crawlspaces

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency **ELEVATION CERTIFICATE**

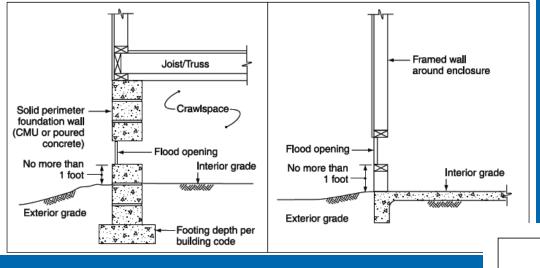
OMB No. 1660-0008 Expires February 28, 2009

National Flood Insurance Program

Important: Read the instructions on pages 1-8.

A1. Building Owner's Name 65% A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Company NAIC Number	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or <u>P.O. Route</u> 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 crawl space or enclosure(s), provide A9. For a building with an attached garage, provide:	
a) Square footage of crawl space or enclosure(s) sq ft a) Square footage of attached garage sq	ft
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade	
c) Total net area of flood openings in A8.b sq in c) Total net area of flood openings in A9.b so	q in





Interior above grade?

or

Interior below grade?

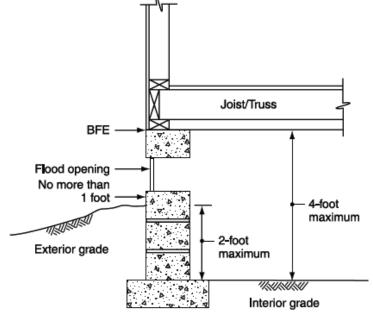


Figure 2. Limitations on below-grade crawlspaces in shallow flood hazard areas (TB 11)

Section A – Property Information Openings

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program ELEVATION CERTIFICATE Important: Read the instructions on pages 1-8.	OMB No. 1660-0008 Expires February 28, 2009
SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name 65%	Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.Q. 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: A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number	NAD 1927 NAD 1983
A8. For a building with a crawl space or enclosure(s), provide A9. For a building with an attach a) Square footage of crawl space or enclosure(s) sq t a) Square footage of crawl space or enclosure(s) sq t	ned garagesq ft openings in the attached garage we adjacent grade



Openings in Foundation Walls and Walls of Enclosures

Below Elevated Buildings in Special Flood Hazard Areas in accordance with the National Flood Insurance Program

Technical Bulletin 1 / August 2008

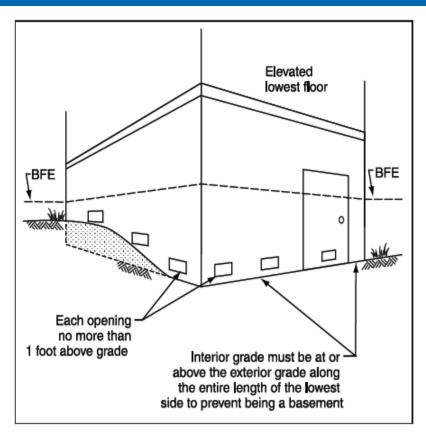


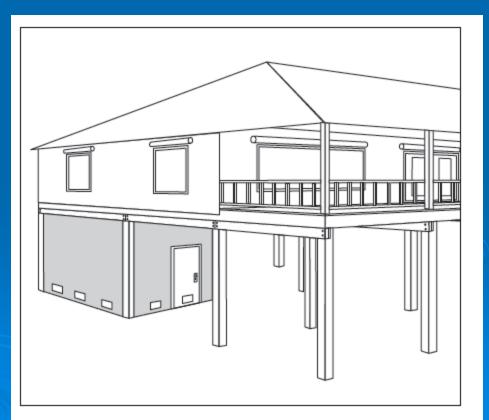
Technical Bulletin #1

www.FEMA.gov

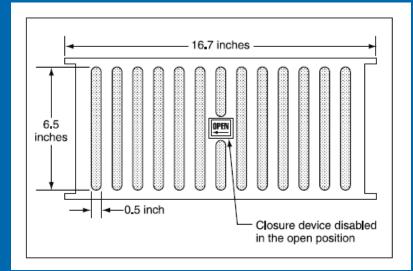
Search window: Technical Bulletin 1

Any enclosed area <u>must</u> be flow thru





Watch the vents! "standard vents" are only 42 sq. in.



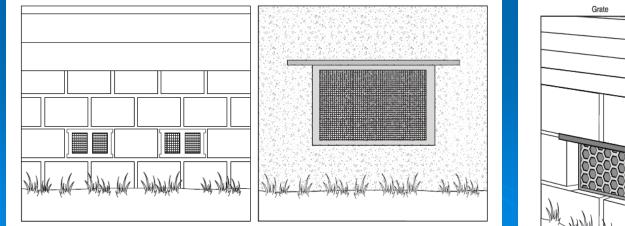
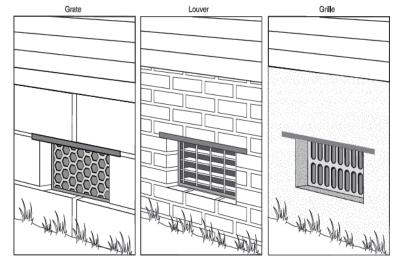
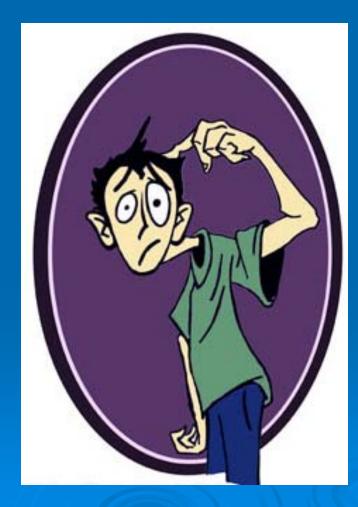


Figure 20. Concrete block turned sideways (insect screening shown)

Figure 21. Wood frame with insect screen inserted in opening in poured concrete foundation wall



Section A – Property Information Engin-nerd Vents?

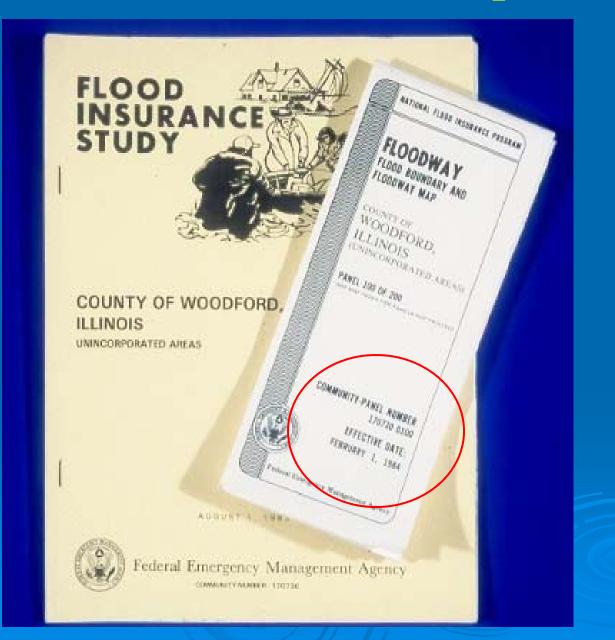


All Engineered Openings must have an ICC-ES Evaluation Report

Section B – Flood Insurance Rate Map (FIRM) Information

L		· ·				· · ·
		SECT	TION B - FLOOD IN	SURANSE RATE MAP (FIRI	M) INFORMATION	l
ᄠᇊ						
	B1. MEIP. Community Name	& Community N	umber E	32. County Name		B3. State
Г	B4. Map/Panel Number	B5. Suffix	B6. FIRM Index	B7. FIRM Panel	B8. Flood	B9. Base Flood Elevation(s) (Zone
	Dit mapri and ramber	Do: Outlin	Date	Effective/Revised Date	Zone(s)	AO, use base flood depth)
			Date		20110(3)	
E	B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.					
	PIS Profile	FIRM	Community Detern	nined 🔲 Other (Describe))	
E	311. Indicate elevation datum	n used for BFE	in Item B9: 📃 NG	VD 1929 🔲 NAVD 1988	Other (Describe)	
F				(CBRS) area or Otherwise Prote		 □Yes □No
	Designation Date	n a ooasta ban	ier resources eystem	CBRS OPA	fored fired (of Fig.	
	Beolghalon Balo	_				

Flood Studies and Maps

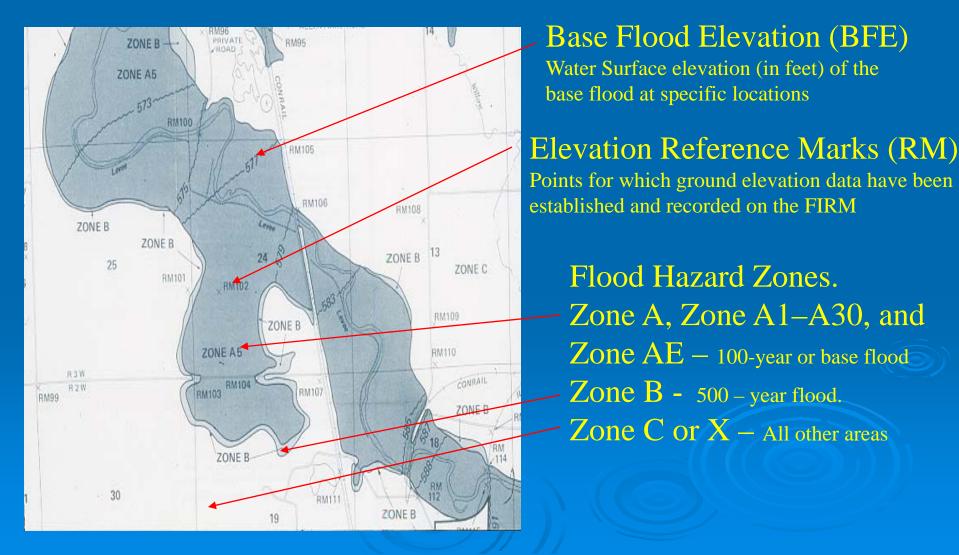


Section B – Flood Insurance Rate Map (FIRM) Information

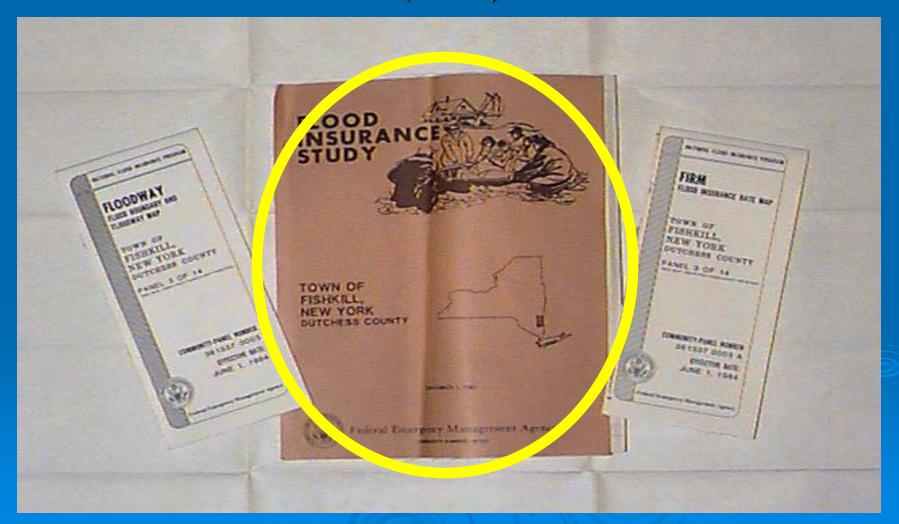
	-					· - ·
		SECT	TION B - FLOOD IN	ISURANCE RATE MAP (FI	RM) INFORMATIC	DN
	B1. NEIP Community Name	& Community N	lumber E	32. County Name		B3. State
	B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
в	FIS Profile 11. Indicate elevation datu	FIRM used for BFE	Community Deterr in Item B9: ING	n base flood depth entered in Ite mined Other (Descril GVD 1929 NAVD 1988 n (CBRS) area or Otherwise Pro CBRS OPA	be)	

Flood Insurance Rate Map (FIRM)

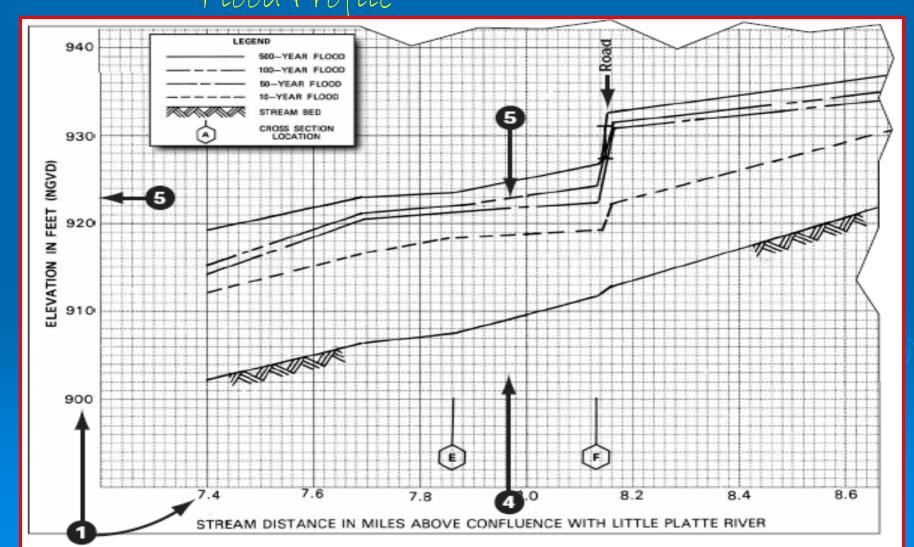
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Flood Insurance Study (FIS)



Flood Profile in the a Flood Insurance Study (FIS) Flood Profile



BFEs in Unnumbered (unstudied) floodplains

Illinois State Water Survey Highway Engineer BFEs Engineering study BFEs in Approximate A Zones Booklet

Section C – Building Elevation Information

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1.		ding elevations are based on: ew Elevation Certificate will be req	Construction Drawings* uired when construction of the building	Building Und g is complete.	ler Constructio	on* 🔲 Finis	shed Construction
C2.	belo Ben	vations – Zones A1-A30, AE, AH, A ow according to the building diagrar chmark Utilized Vertical Da version/Comments), AR, AR/A, AR/A	4E, AR/A1-A3	0, AR/AH, AR/AO.	Complete Items C2.a-g
	0011				Check the m	neasurement used	
a)	Тор	of bottom floor (including basemer	nt, crawl space, or enclosure floor)_		🔲 feet	meters (Puerto	Rico only)
	b)	Top of the next higher floor			🔲 feet	meters (Puerto	Rico only)
	c)	Bottom of the lowest horizontal st	ructural member (V Zones only)		🔲 feet	meters (Puerto	Rico only)
	d)	Attached garage (top of slab)			🔲 feet	meters (Puerto	Rico only)
	e)	Lowest elevation of machinery or (Describe type of equipment in Co			🔲 feet	meters (Puerto	Rico only)
	f)	Lowest adjacent (finished) grade	(LAG)		🔲 feet	meters (Puerto	Rico only)
	a)	Highest adjacent (finished) grade	(HAG)		🔲 feet	meters (Puerto	Rico only)

Highest adjacent (finished) grade (HAG) g)

Diagram #1 – Slab on Grade



Diagram #2 - Basement



Diagram #3 – Split level walkout

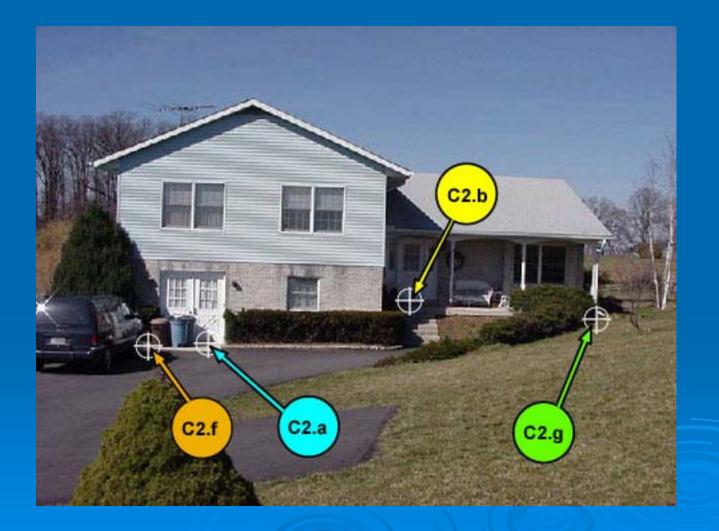


Diagram #4 – Split level with basement

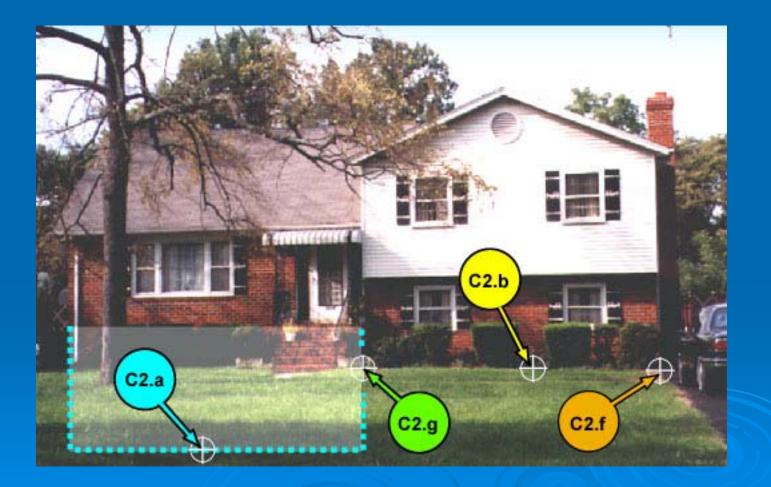


Diagram #5 – Elevated on piers



Diagram #6 – Piers with enclosed area below



Diagram #7 - Fully enclosed lower area

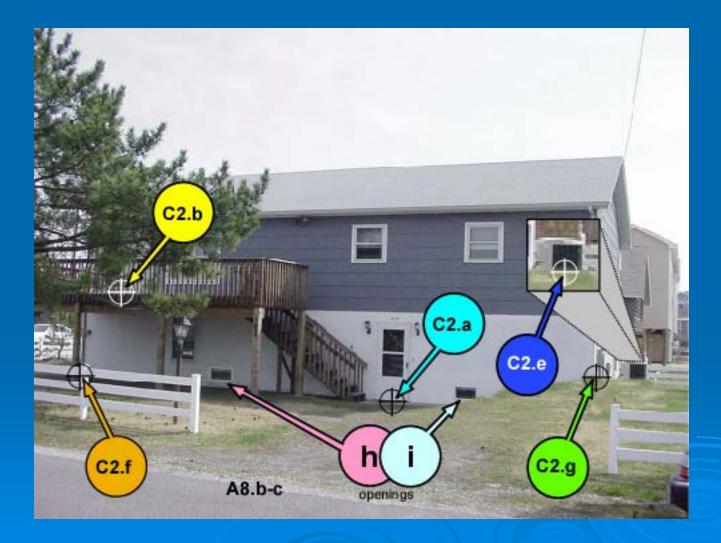
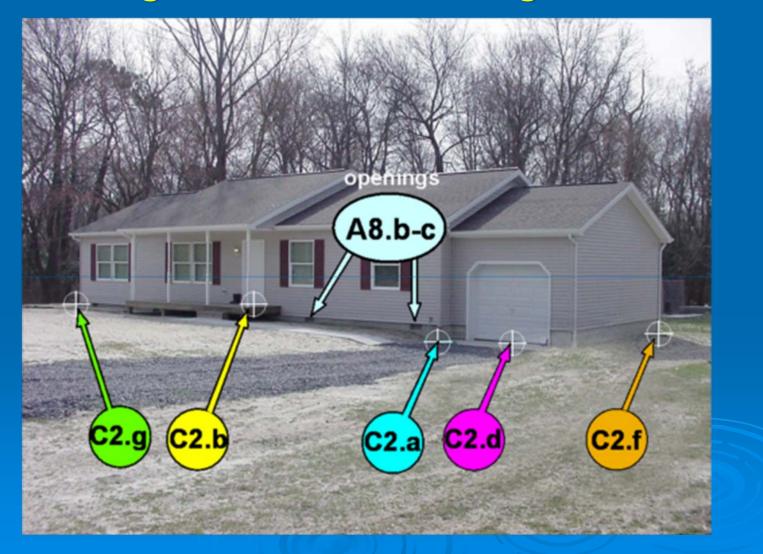


Diagram #8 and #9 – Crawlspaces (above grade crawl and below grade crawls)



Deck elevation?

Section C(h) now captures the lowest adjacent grade at lowest elevation of deck or stairs, including structural support.

This information is required if the EC is being used to support a request for a LOMA or LOMR-F.

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.	
Check here if comments are provided on back of form.	PLACE SEAL
Certifier's Name License Number	HERE
Title Company Name	
Address City State ZIP Code	
Signature Date Telephone	

FEMA Form 81-31, February 2006

See reverse side for continuation.

Replaces all previous editions

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
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CON	TINUED)
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building own	ner.
Comments	
Signature Date	
	Check here if attachments

Surveyor Certification

In Illinois, only land surveyors are authorized by law to provide elevation information.

Under Illinois law, 225 ILCS 330/5, Practice of Land Surveying Defined, it is spelled out what type of work must be performed by a Professional Land Surveyor.

IL Professional Land Surveyors Association

Section E – Building Information (Zone AO and A)

Check here is attachments

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-I	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, crawl space, or enclosure) is ______ feet feet devices above or below the HAG. b) Top of bottom floor (including basement, crawl space, or enclosure) is ______ feet feet devices above or below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 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 floo	od depth	number is ava	ailable, is the top	of the bottom fl	oor elevated in	accordance	with the community	y's floodplain	management
	ordinance?	Yes	🔲 No	Unknown	. The local offici	al must certify th	is information	in Section G.			

Last Page – Building Photos

Building Photographs

See Instructions for Item A6.

	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 two building photog	raphs below according to

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page, following.

Required for new insurance policies!!!

Take a picture at each elevation point. Mark photos on a drawing. Avoid having to go back for more pictures!

Copies of the Elevation Certificate

Download from: http://www.fema.gov/

or

simply go to www.FEMA.gov and search "elevation certificate"

FEMA Technical Bulletins and References

- TB 1 Openings in Foundation Walls and Walls of Enclosures
- **TB 2 Flood Damage-Resistant Materials Requirements**
- TB 3 Non-Residential Floodproofing -- Requirements and Certification
- TB 4 Elevator Installation
- TB 6 Below-Grade Parking Requirements
- TB 7 Wet Floodproofing Requirements

TB 10 - Ensuring that Structures Built on Fill In or Near Special Flood Hazard Areas are Reasonably Safe From Flooding

TB 11 - Crawlspace Construction for Buildings Located in Special Flood Hazard Areas









Questions?



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