

### National Flood Insurance Program (NFIP) MT-1 Presentation

Shona Gibson FEMA Region 6 August 2016

# **Presentation Outline**

- Objectives
- Definitions
- Flood Insurance Study Text
- MT-1 Letters of Map Change
- MT-1 processing issues
- Base Flood Elevation development



# Objectives

- Increase your knowledge and understanding of MT-1 processing
- Help you become more efficient in serving your respective clients, which will in turn allow the RISK Map Team to better serve it's clients
- Increase efficiency for all





# Definitions

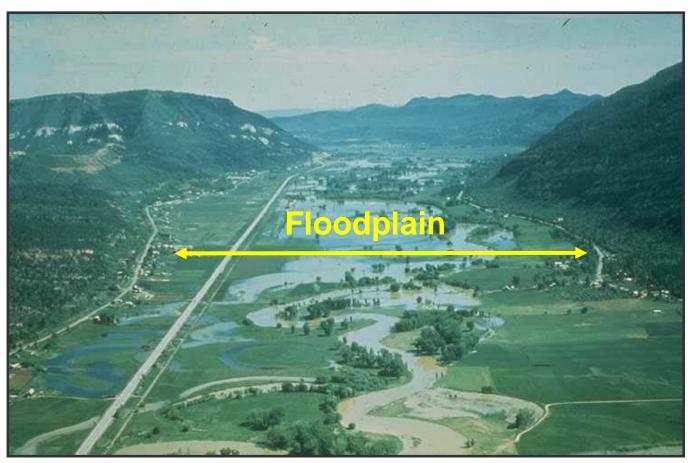
# Definitions Flood

- A "flood" "a general and temporary condition of partial or complete inundation of 2 or more acres/properties from:
  - Overflow of inland or tidal waters or
  - Unusual rapid accumulation or runoff of surface waters from any source and or mudflow"





# Definitions Floodplain



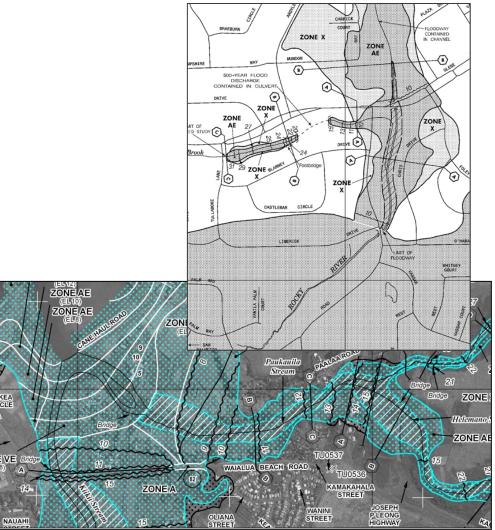
Any land area susceptible to inundation by water from any source





# Definitions Special Flood Hazard Area (SFHA)

- Darkly shaded area on a Flood Insurance Rate Map (FIRM) identifies the area has a 1-percent-chance of being flooded in any given year.
  - The FIRM identifies these shaded areas as flood zones A, AO, AH, A1-30, AE, A99, V, V1-30, and VE."







# Definitions Base Flood

- A flood that has a 1% chance of being equaled or exceeded in any given year
- Formerly referred to as the "100-year" flood







# Definitions Floodway

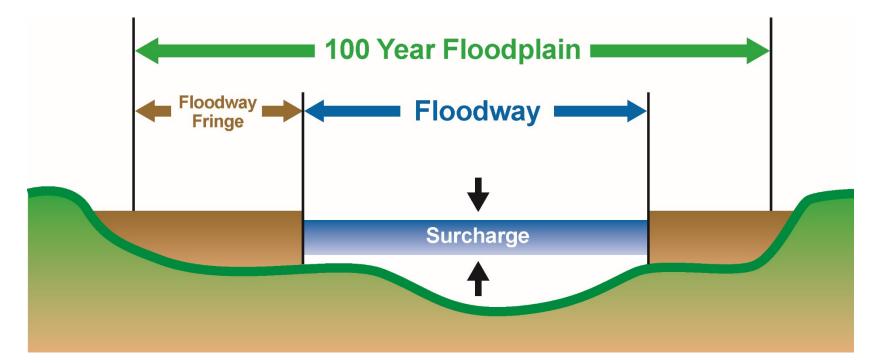
 Channel of stream plus any adjacent floodplain areas that must be kept free of encroachments so that 1% annual chance flood discharge can be conveyed without increasing elevation of 1% annual chance flood by more than specified amount (1 foot in most States)







# Definitions Floodway Schematic



#### Floodway + Floodway Fringe = 100-Year Floodplain Surcharge Not to Exceed 1.0 Foot

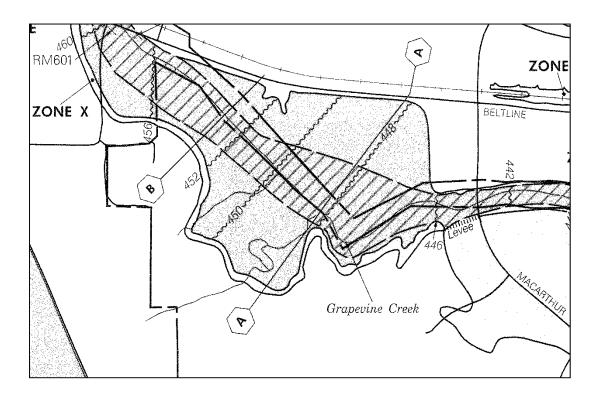




# Floodway on Flood Insurance Rate Map (FIRM)

#### FIRMs Contain a Variety of Information

- SFHAs
- Common physical features (highways, railroads, streams, other waterways)
- BFEs
- Areas subject to inundation by 0.2% annual chance flood
- Areas designated as regulatory floodways

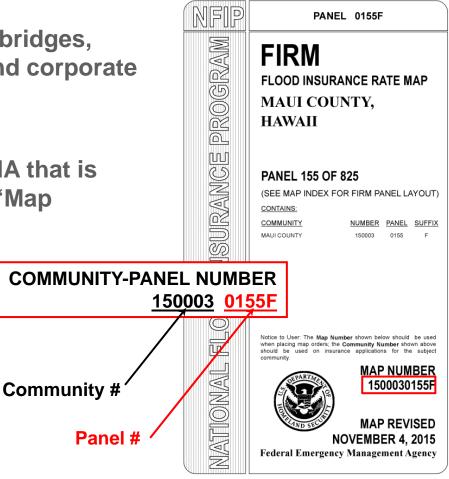




#### Definitions Base Map, Effective Map, FBFM

#### Base Map:

- Depicts cultural features (roads, bridges, dams, etc.), drainage features, and corporate limits
- Effective Map:
  - Current NFIP map issued by FEMA that is official as of "Effective Date" or "Map Revised" date shown on map





#### **Community FIRM**

#### Definitions FHBM, FIRM, Map Initiatives, Preliminary

#### Flood Insurance Rate Map (FIRM)

 Delineates 1% and 0.2% chance floodplains, BFEs, and floodways and enables insurance agents to issue accurate flood insurance policies to communities participating in the NFIP

#### Map Initiatives

• FIRM format developed in 1985 that incorporated information formerly shown on separately printed FBFM and FIRM

#### Preliminary

 FIS and FIRM issued to community for review and comment prior to becoming effective



#### Definitions Zone Designations

Α	Areas of 1% annual chance flood determined by approximate methods; base flood elevations not determined
AO	Areas of 1% annual chance shallow flooding where average depths are between 1 and 3 feet (usually sheet flow on sloping terrain); average whole-foot depths are shown
AH	Areas of 1% annual chance shallow flooding (usually ponding) where average depths are between 1 and 3 feet; whole-foot base flood elevations are shown
AE	SFHAs inundated by 1% annual chance flood; base flood elevations are shown
VE	SFHAs inundated by 1% annual chance flood; coastal floods with velocity hazards (wave action); base flood elevations are shown
X (shaded)	Areas of 0.2% annual chance flood; areas subject to 1% annual chance flood with average depths less than 1 foot or with contributing drainage area less than 1 square mile; and areas protected by levees from base flood
X (unshaded)	Areas determined to be outside the 0.2% annual chance floodplain



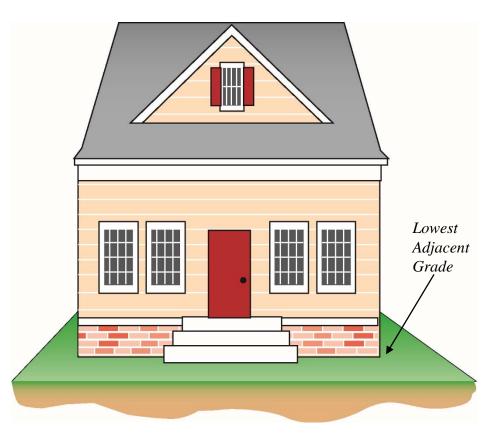
# Definitions

- Base Flood Elevation (BFE)
  - Elevation associated with base flood, shown on FIRM, and rounded to nearest whole foot
- Cross Section
  - Line developed from topographic information, across floodplain, at which computation of flood flow has been made to establish potential flood elevation
- Encroachment
  - Construction, placement of fill, or similar alteration of topography in floodplain that reduces area available to convey flood waters
- Community Identification Number (CID)
  - Unique 6-digit identification number assigned to each community by FEMA; shown on Flood Insurance Study (FIS), FIRM, and Flood Boundary and Floodway Map (FBFM)



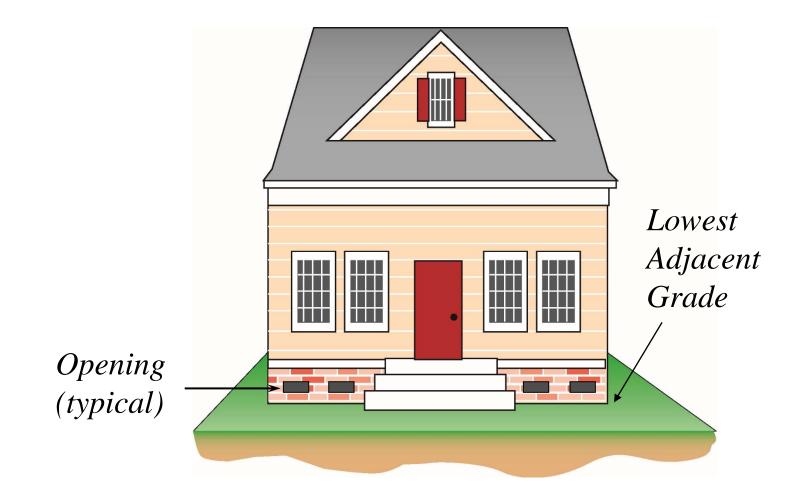
#### Definitions Lowest Adjacent Grade (LAG)

- Elevation of ground, sidewalk, patio, or deck support immediately next to building
- Lowest ground elevation touching structure or supporting members of structure
- For LOMC submittals, must be certified to nearest tenth of a foot





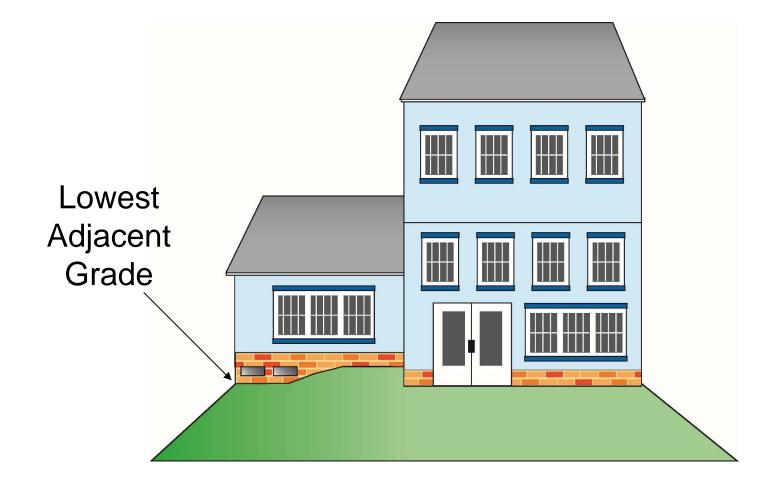
#### Lowest Adjacent Grade Crawl-Space Foundation







#### Lowest Adjacent Grade Split Level





# Lowest Floor

- Lowest floor of lowest enclosed area, including basement
- Unfinished or flood-resistant enclosures, used solely for parking of vehicles, building access, or storage in areas other than basements not considered lowest floors
  - PROVIDED that such enclosures are not built to render the structure in violation of applicable non-elevation design requirements of a community's ordinance





#### Lowest Floor Elevation Basement Foundation



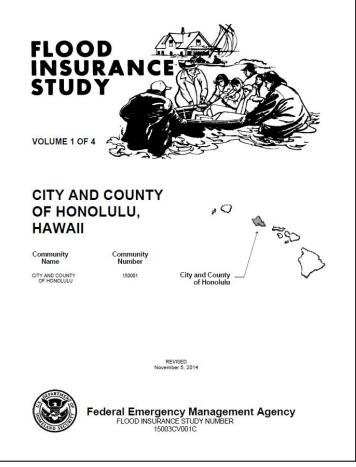




# Flood Insurance Study (FIS)

# **FIS Purposes**

- Identify location of specific property
- Estimate BFE at specific site
- Determine flood insurance zone at specific site
- Determine location of regulatory floodway
- Estimate flood flow frequency
- Establish flood elevation profiles



Copies of FIS can be download from the FEMA Map Service Center (www.msc.fema.gov) or www.hawaiinfip.org



# **FIS Components**

#### Report

• Written text, profiles, figures, and tables

#### FIRM

• Graphic representation and spatial distribution of flood hazard areas, flood insurance risk zone, BFEs, floodways, and other flood related data





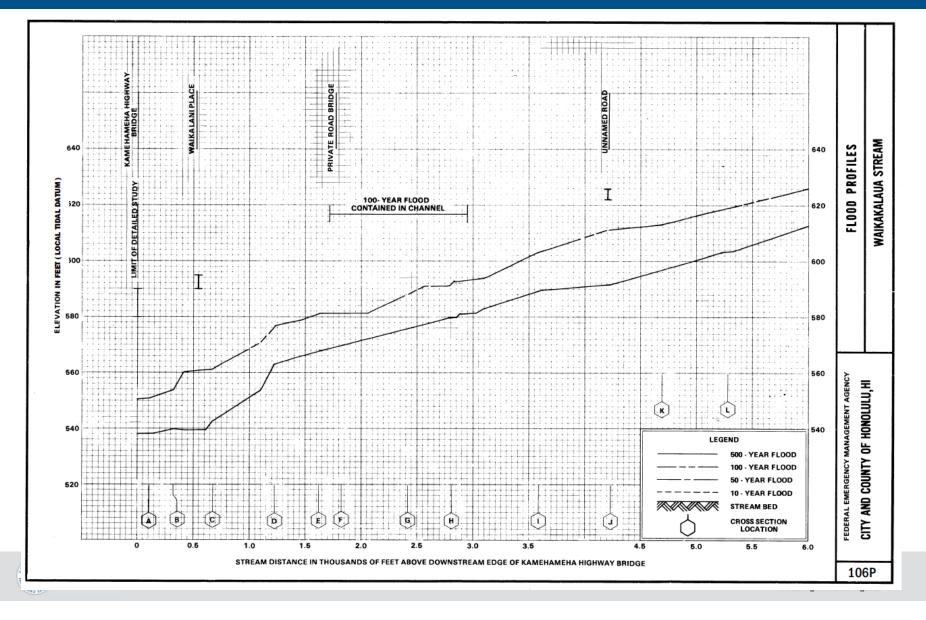
# Floodway Data Table

- Provides data from hydraulic model for each stream studied by detailed H&H methods
- Includes cross-section ID, distance from start of model, floodway width, section area, mean velocity, and base flood water-surface elevations
- Included in most FIS reports

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (LOCAL TIDAL DATUM)			
CROSS SECTION	DISTANCE1	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Kaaawa Stream	050	400	0.07					
A B	650 1.650	192	687	11.2 14.2	9.9 20.5	9.9 20.5	10.9	1.0
C	2,200	164	720	14.2	20.5	20.5	21.1 29.1	1.0
D	2,600	143	550 635	10.6	30.5 33.7	30.5 33.7	31.3 34.7	0.8
E	2,900	121	635	9.2	33.7	33.7	34.7	1.0
Waikane Stream								
A	2,200	460	1,807	5.7	25.0	25.0	26.0	1.0
в	2,400	417	2,455	4.2	27.2	27.2	27.7	0.5
č	2.900	349	1.651	6.2	32.6	32.6	33.4	0.8
D	3.500	216	1.604	6.4	38.2	38.2	39.2	1.0
E	4,400	206	1,343	7.7	50.4	50.4	51.4	1.0
Waiahole Stream								
A	1,500	289	1,343	8.2	17.4	17.4	18.2	0.8
в	1,800	205	1,306	8.4	20.2	20.2	21.2	1.0
С	2,300	320	1,207	9.1	23.3	23.3	23.8	0.5
D	2,900	238	1,460	7.5	30.7	30.7	31.7	1.0
E	3,600	264	1,589	6.9	35.6	35.6	36.6	1.0
Heeia Stream								
A	150	764	3,119	3.0	4.2	4.2	5.2	1.0
B	550	611	2,719	3.5	5.4	5.4	6.1	0.7
c	1,290	973	5,476	1.7	6.3	6.3	7.2	0.9
D	1,950	719	1.834	5.2	7.0	7.0	7.8	0.8
Ē	2,700	1.834	6.693	1.3	8.3	8.3	9.3	1.0
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Feet above mouth		1	1		1		1	
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	D COUNTY	OF			12001			
HONOLULU, HI				KAAAWA STREAM – WAIKANE STREAM -				

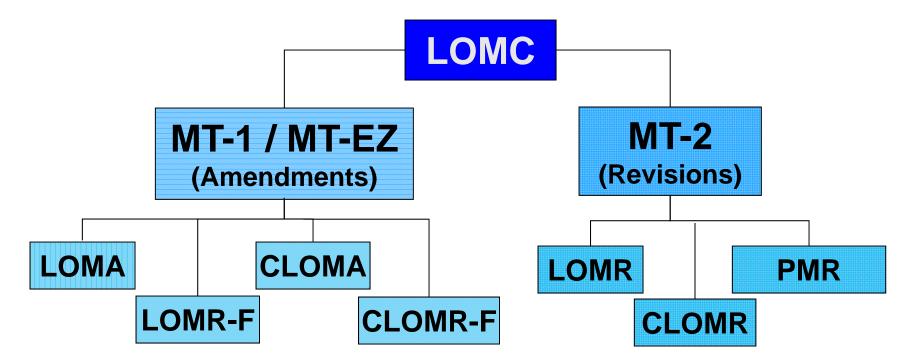


#### Flood Profile



# MT-1 Letters of Map Change (LOMCs)

# Letters of Map Change



- LOMA Letter of Map Amendment
- LOMR-F Letter of Map Revision based on Fill
- LOMR Letter of Map Revision
- PMR Physical Map Revision

CLOMA – Conditional Letter of Map Amendment CLOMR-F – Conditional Letter of Map Revision based on Fill CLOMR – Conditional Letter of Map Revision



# Types of LOMCs

- Letter of Map Amendment (LOMA)
- Letter of Map Revision Based on Fill (LOMR-F)
- Conditional Letter of Map Amendment (CLOMA)
- Conditional Letter of Map Revision Based on Fill (CLOMR-F)
- Inadvertent inclusion in floodway (LOMR-FW)
- Out as Shown (LOMA-OAS)

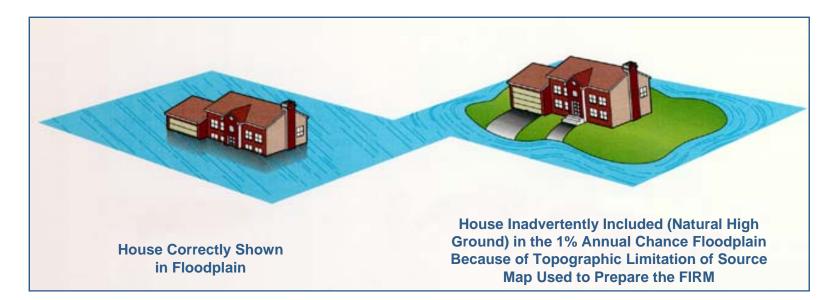


# What Is a LOMA?

- Letter of Map Amendment
- Request for exclusion of existing structure(s) or legally defined parcel(s) of land
- Inadvertent inclusion (no fill)
- Removes mandatory Federal flood insurance purchase requirement
- Processed under Part 70 of NFIP regulations
- Does not change BFEs



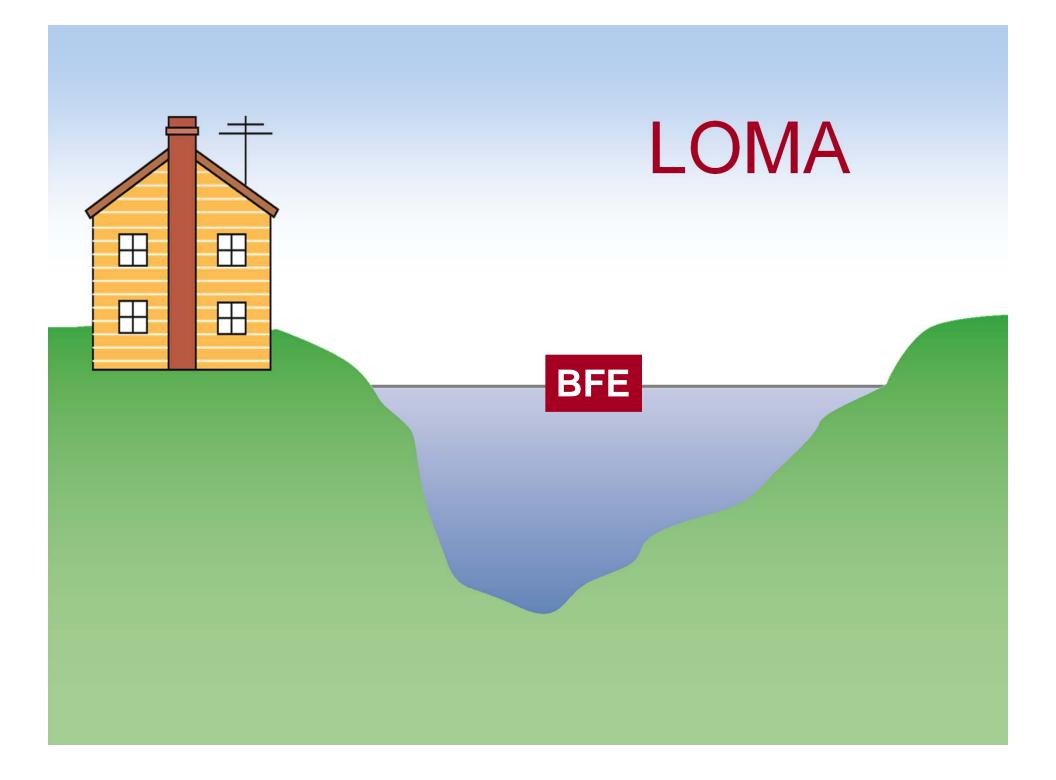
# LOMA



# Part 70 of the NFIP Regulations requires that the lowest ground touching the structure be equal to or higher than the BFE.

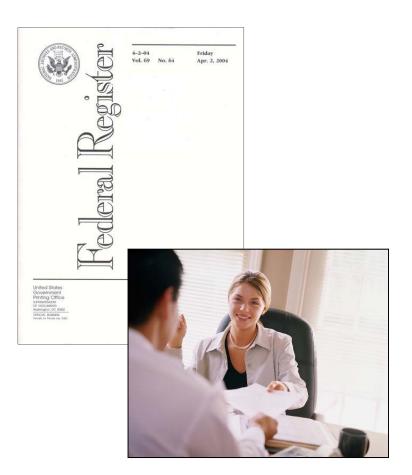






# LOMA Distribution

- Applicant
- Community's map repository
- Community or governmental unit that requested the LOMA
- FEMA's community file
- State NFIP Coordinator
- FEMA Regional Office
- Federal Register





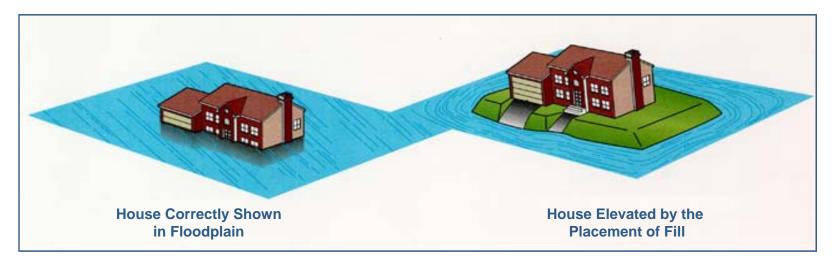


# What Is a LOMR-F?

- Letter of Map Revision based on Fill
- Property and/or structure elevated by earthen fill
- Existing structure or parcel is removed from SFHA
- Removes mandatory Federal flood insurance purchase requirement
- Processed under Section 65.5 of NFIP regulations
- Does NOT change BFEs or revise the FIRMs



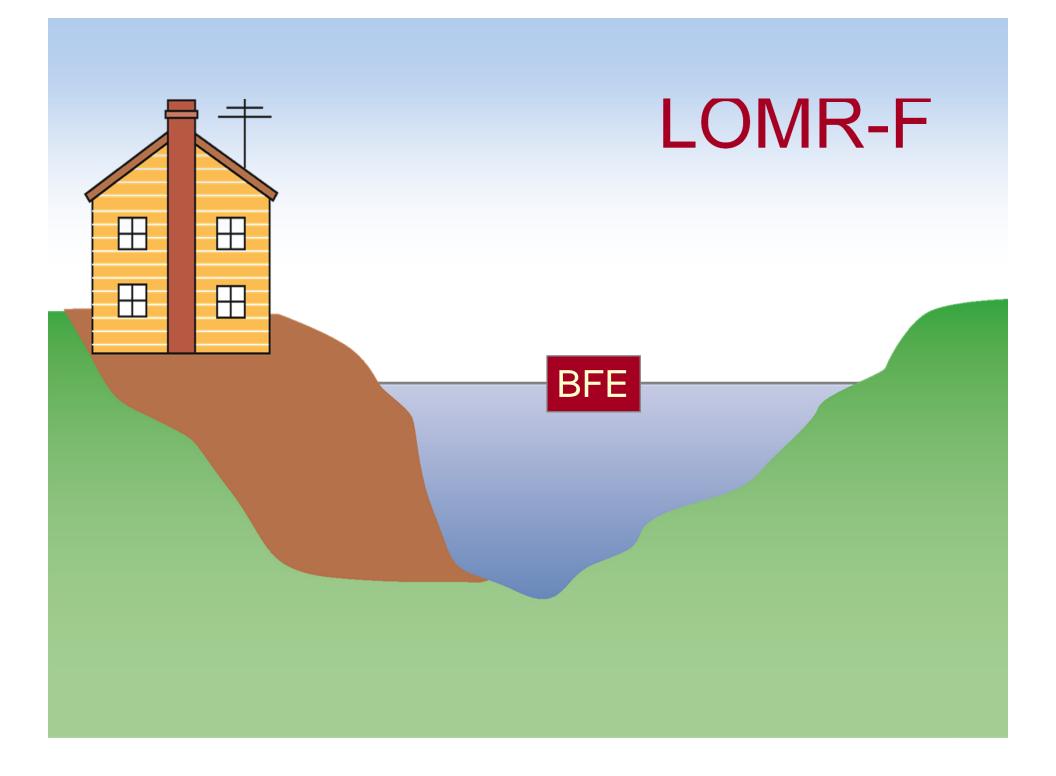
# LOMR-F



# Parts 60 and 65 of the NFIP regulations require that the lowest ground touching structure be equal to or higher than the BFE.







# LOMR-F Distribution

- Community's CEO
- Applicant
- Community's map repository
- Community or governmental unit that requested the LOMR-F
- FEMA's community file
- State NFIP Coordinator
- FEMA Regional Office
- Federal Register





#### Conditional LOMA or LOMR-F

- Referred to as CLOMA and CLOMR-F
- For an applicant proposing to build on property that is inadvertently included in SFHA (CLOMA) or proposing to raise property above BFE using fill (CLOMR-F)
- Same data requirements as LOMA and LOMR-F, but with proposed elevations
- Do NOT amend a Flood Map
- Does not waive mandatory flood insurance purchase requirement
- Typically followed by LOMA and LOMR-F upon completion of work



#### LOMC Review By FEMA

- FEMA is required to notify the applicant in writing within 60 days from the receipt date of all data
- Requesters are able to check status of all LOMC requests by contacting the FEMA Map Information Exchange toll-free at 877-FEMA MAP (336-2627)





## LOMC Review By FEMA

Mapping	Service Se
Log in   Need an Account?   FEMA Di	ctionary
Home Map Modernization News & Events	Tools & Links   Learning   Map Viewer   Contact Center
Public Reports	
Home > Tools & Links > Public Reports	Status of a LOMC can also be viewed by going to the Mapping
Report Browser	
	Information Platform (MIP)
Report Selection	
*Select Report Category	< <u>https://hazards.fema.gov</u>
*Select Report Name	<tools and="" links<="" th=""></tools>
Please Select A Valid Report Name.	Public reports
Note: * indicates a required field. ** indicates a	
Warning: The export option for MS Excel (Data	Only) may cause the column headers to shift.

#### Get Report



#### Sample LOMC Cover Letter



Federal Emergency Management Agency Washington, D.C. 20472

#### March 12, 2015

MR. THEODORE NESHEIM 602A KAWAINUI STREET KAILUA, HI 96734 CASE NO.: 15-09-1043A COMMUNITY: CITY AND COUNTY\* OF HONOLULU, HONOLULU COUNTY, HAWAII COMMUNITY NO.: 150001

DEAR MR. NESHEIM:

This is in reference to a request that the Federal Emergency Management Agency (FEMA) determine if the property described in the enclosed document is located within an identified Special Flood Hazard Area, the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), on the effective National Flood Insurance Program (NFIP) map. Using the information submitted and the effective NFIP map, our determination is shown on the attached Letter of Map Amendment (LOMA) Determination Document. This determination document provides additional information regarding the effective NFIP map, the legal description of the property and our determination.

Additional documents are enclosed which provide information regarding the subject property and LOMAs. Please see the List of Enclosures below to determine which documents are enclosed. Other attachments specific to this request may be included as referenced in the Determination/Comment document. If you have any questions about this letter or any of the enclosures, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605.

Sincerely,

at contest of the Luis Rodriguez, P.E., Chief

Engineering Management Branch Federal Insurance and Mitigation Administration

LIST OF ENCLOSURES: LOMA DETERMINATION DOCUMENT (REMOVAL)

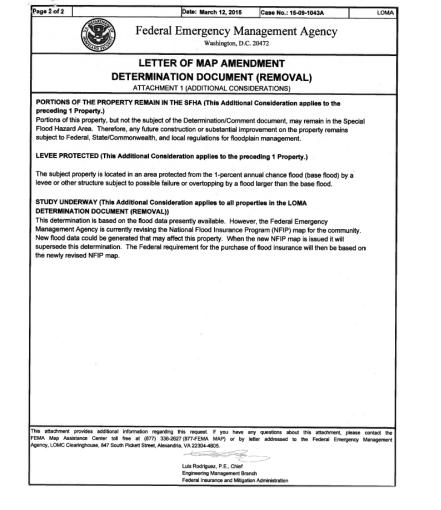
cc: State/Commonwealth NFIP Coordinator Community Map Repository Region





#### **Sample Determination Document**

Page 1	of 2			0	Date: March 12, 20	)15 Ca	se No.: 15-09-10	043A	LOMA
			S	Federal Er		Manag 1, D.C. 20472		gency	
					F MAP AM				
				<b>TERMINATIO</b>	N DOCUM				
	COMMU	NITY	AND MAP PANEL				PROPERTY DESC		
COMIN	IUNITY		HONOLULU, HON	COUNTY" OF IOLULU COUNTY, WAII	Lots 427, 428, an described in the V T-8661125, in the County, Hawaii	Varranty Dee	ed, recorded as I	Document No.	
	_	CON	MUNITY NO.: 15	0001					
AFFE	CTED	NUN	BER: 15003C029	он					
MAPF	PANEL	DAT	E: 11/5/2014						
LOOD	ING SO	URC	E: PONDING		APPROXIMATE LATIN SOURCE OF LAT & L				8 DATUM: NAD 83
					DETERMINATIC	N			
LOT	BLOO		SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (LTD)	LOWEST ADJACENT GRADE ELEVATION (LTD)	LOWEST LOT ELEVATION (LTD)
427 - 429	-		Land Court Application 495	602A Kawainui Street	Structure (Residence)	X (shaded)	6.0 feet	6.7 feet	-
equale ADDIT PORTIC LEVEE STUDY This do he pro Jetermin peing e he SFI available fhis do fetermin 877-FE	d or exc IONAL ( ONS REI PROTEC UNDER ourment apperty d hed that qualed HA loca has the e for built eterminal hation. I	CONS MAIN CTED WAY provi lescrit the or ex optic dings tion f you P) o	d in any given yea SIDERATIONS (Pi IN THE SFHA des the Federal des the Federal des the Federal des the Federal des the Federal structure(s) on the coefed in any given structure(s) on the coefed in any given is based on the have any quest is based on the have any quest	The SFHA is an a r (base flood), sase refer to the appropriat Emergency Management the information submit property(ies) la/are not refuer may: therefore, the refood insurance require SFHA. Information about th flood data presently ons about this docume sased to the Federal	Agency's determina ted and the effoct located in the SFH his document amon e Federal mandator ement to protect its he PRP and how one i available. The enco nt, please contact t	nt 1 for the add tion regarding ive National A, an area inn ds the effectiv y flood insure financial risk can apply is end losed docume the FEMA Ma	ilional consideration a request for a Flood Insurance indated by the flo re NFIP map to in nos requirement on the Ioan. A alosed. ants provide addi	is listed below.) is Letter of Map Program (NFIP) od having a 1-pe remove the subje does not apply, is Preferred Risk tional information ther toll free at	Amendment for map, we have roent chance of ct property from However, the Policy (PRP) is regarding this (877) 330-2627
				L	uis Rodriguez, P.E., C Ingineering Managem ederal Insurance and	thief ent Branch			





#### Data Requirements

	LOMA	LOMR-F	CLOMA	CLOMR-F
Property Information Form	X	X	X	X
Recorded Deed/Plat	X	X		
Tax Map or Other Suitable Map	<b>X</b> <sub>1</sub>	<b>X</b> ,	<b>X</b> <sub>1</sub>	<b>X</b> <sub>1</sub>
Effective FIRM	X	X	X	X
Elevation Certificate or Form	X	X	X	X
Community Acknowledgment Form	<b>X</b> <sub>2</sub>	X		X
Metes and Bounds Map/Description	<b>X</b> <sub>3</sub>	X <sub>3</sub>		<b>X</b> <sub>3</sub>
ESA Documentation			X	X
Fees		X	X	X

1 Not required if a plat has been submitted

2 Section B required if structure has been inadvertently included in the floodway

3 If portion of property is requested to be removed





#### **Property Information Form**

	MELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGEN ROPERTY INFORMATION FORM	O.M.B. NO. 1660-0015 Expires August 31, 2007
	PAPERWORK BURDEN DISCLOSURE NOTICE	
searching existing data sources, to respond to this collection of infi the accuracy of the burden esti Homeland Security, Federal Eme	m is estimated to average 1.63 hours per response. The burden estimate includ gathering and maintaing the needed data, and completing, reviewing, and subra mattain unless a valid OMB control number appears in the uppears matter and any suggestions for reducing this burden to: Information Collection grancy Management Agency, SOO C Street, SW Washington DC 20472, Paper d to obtain or retain benefits under the National Flood Insurance Program. Pl	hitting the form. You are not require this form. Send comments regardin s Management, U.S. Department of work Reduction Project (1880-0015
request for a Letter of Map Amen	e property owner, property owner's agent, licensed land surveyor, or registered p fment (LOMA), Conditional Letter of Map Amendment (CLOMA), Letter of Map Re n Based on Fill (CLOMR-F) for existing or proposed, single or multiple lots/structur	vision Based on Fill (LOMB-F) or
	A letter from DHS-FEMA stating that an existing structure or parce by fill (natural grade) would not be inundated by the base flood.	el of land that has not been elevated
CLOMA	A letter from DHS-FEMA stating that a proposed structure that is grade) would not be inundated by the base flood if built as propos	not to be elevated by fill (natural ed.
LOMR-F	A letter from DHS-FEMA stating that an existing structure or pare fill would not be inundated by the base flood.	el of land that has been elevated by
CLOMR-F	A letter from DHS-FEMA stating that a parcel of land or proposed fill would not be inundated by the base flood if fill is placed on the is built as proposed.	structure that will be elevated by parcel as proposed or the structure
removing unsuitable existing mate alter the existing (natural grade) e	rial (topsoil) and backfilling with select structural material is not considered the pla levation, which is at or above the BFE. Fill that is placed before the date of the the area in a Special Flood Hazard Area (SFHA) is considered natural grade.	cement of fill if the practice does no
removing unsuitable existing matu alter the existing (natural grade) e Program (NFIP) map showing th Has fill been placed on your prope	rial (topsol) and backfilling with select structural material is not considered the pip levation, which is all or above the BFE. Fill that is placed before the date of the se area in a Special Flood Hazard Area (SFHA) is considered natural grade. stry? Yes No If yes, when was fill placed?	cement of fill if the practice does no
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termoving unsuitable easing mata align the existing (natural grade) end Program (NFIP) map showing the Has fill been placed on your property Will fill be placed on your property Street Address of the Property Legal description of Property Are you requesting that the S	rial (topsol) and backfilling with select structural material is not considered the pip levation, which is do real work the BFE. Fill that is place before the date of the se area in a Special Flood Hazard Area (SFHA) is considered natural grade. rity? Yes No If yes, when was fill placed? Yes No If yes, when will fill be placed? ty (if request is for multiple structures, please attach additional sheet): (Lot, Block, Subdivision) (if a street address cannot be provided):	icoment of fill if the practice does no first National Flood Insurance / month/year / month/year

**Property Information Form** 

	Copy of the Plat Map for the property (with recorda OR	tion data and stamp of the Recorder's Office)
•	Copy of the property Deed (with recordation data a map showing the surveyed location of the property	nd stamp of the Recorder's Office), accompanied by a tax assessor's map or other certifie relative to local streets and watercourses
•	Copy of the effective FIRM panel and/or Flood Bou accurately plotted (property inadvertently located in	ndary and Floodway Map (FBFM) (if applicable) on which the property location has been the NFIP regulatory floodway will require Section B of MT-1 Form 3)
·	Form 2 – Elevation Form. If an Elevation Certificat	e has already been completed for this property, it may be submitted in addition to Form 2.
	Please include a map scale and North arrow on all	maps submitted.
For LON	MR-Fs and CLOMR-Fs, the following must be submitte	ed in addition to the items listed above:
•	Form 3 – Community Acknowledgment Form	
Process	sing Fee (see instructions for appropriate mailing addr	ess; or, visit http://www.fema.gov/fhm/frm_fees.shtm for the most current fee schedule
Revised		e than once annually, as noted in the Federal Register. Please note: single/multiple
	Check the fee that applies to your request:	
	\$325 (single lot/structure LOMR-F following a	CLOMR-F)
	\$425 (single lot/structure LOMR-F)	
	\$500 (single lot/structure CLOMA or CLOMR-I	E)
	\$700 (multiple lot/structure LOMR-F following	
	\$800 (multiple lot/structure LOMR-F or CLOM	R-+)
Please s Insurance	submit the Payment Information Form for remittance of ce Program.	of applicable fees. Please make your check or money order payable to: National Flood
All docu	ce Program.	t to the best of my knowledge. I understand that any false statement may be punishable
All docu	ce Program.	t to the best of my knowledge. I understand that any false statement may be punishable t
All docu fine or in Applicar	ce Program. ments submitted in support of this request are correc mprisonment under Tille 18 of the United States Code nfs Name:	t to the best of my knowledge. I understand that any false statement may be punishable b , Section 1001.
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Property Information Form

In addition to this form (MT-1 Form 1), ALL requests must include the following:

**FEMA** 

DHS - FEMA Form 81-87, FEB 06

DHS - FEMA Form 81-87, FEB 06

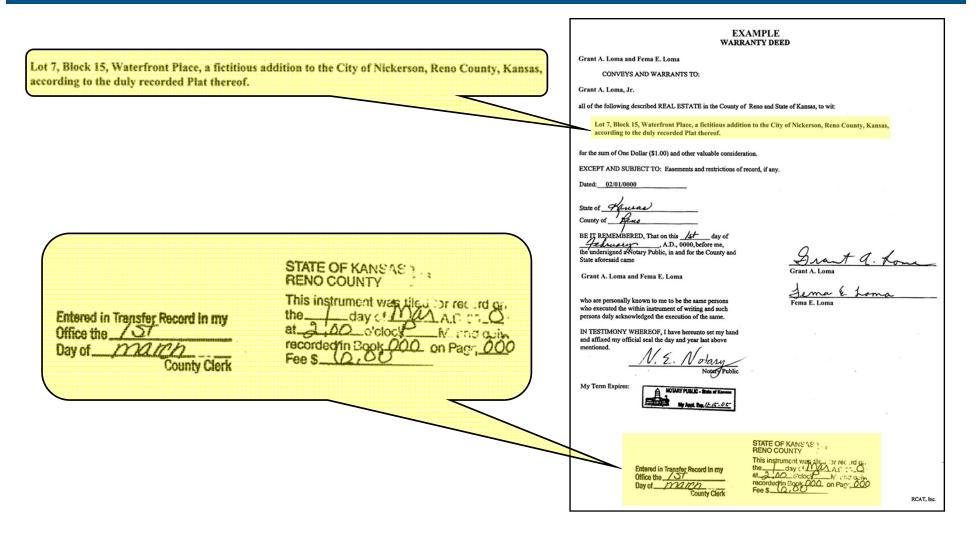
MT-1 Form 1 Page 1 of 2



MT-1 Form 1 Page 2 of 2

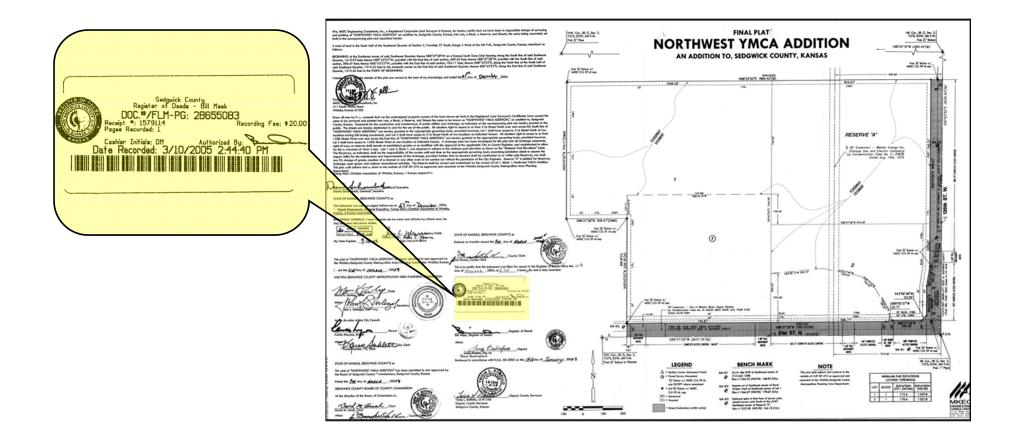
#### Recorded Deed

🍪 FEMA





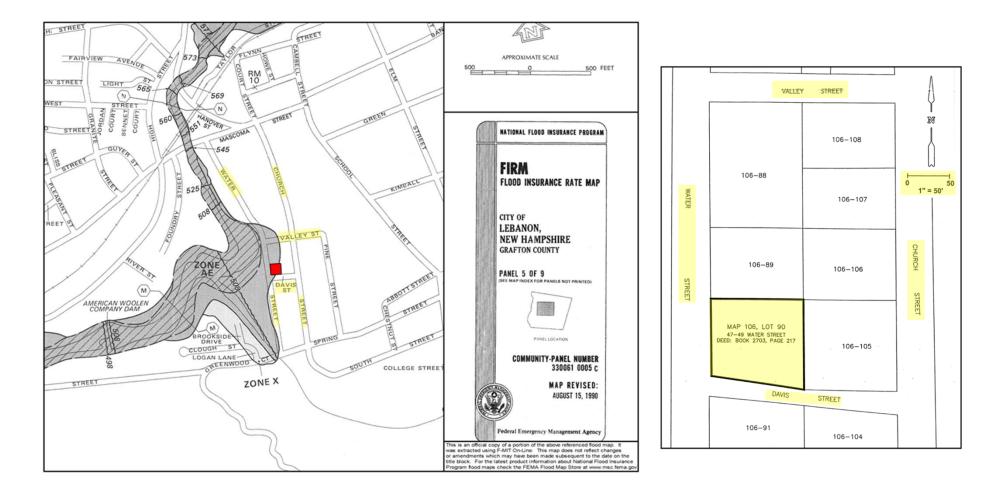
#### **Recorded Plat**







#### Effective FIRM/Tax Map

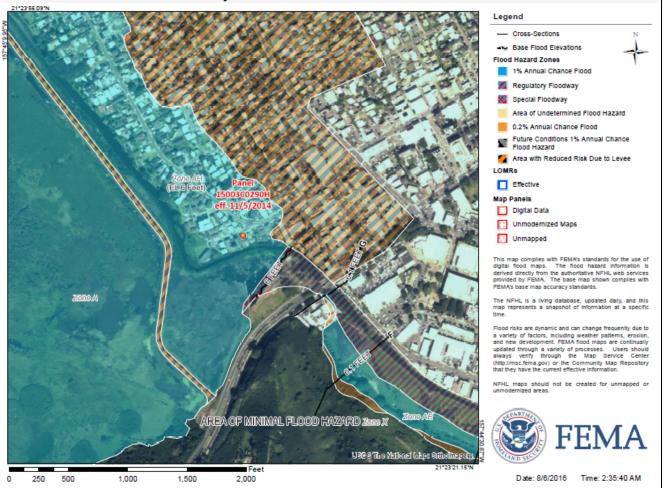






#### Effective FIRM/Tax Map

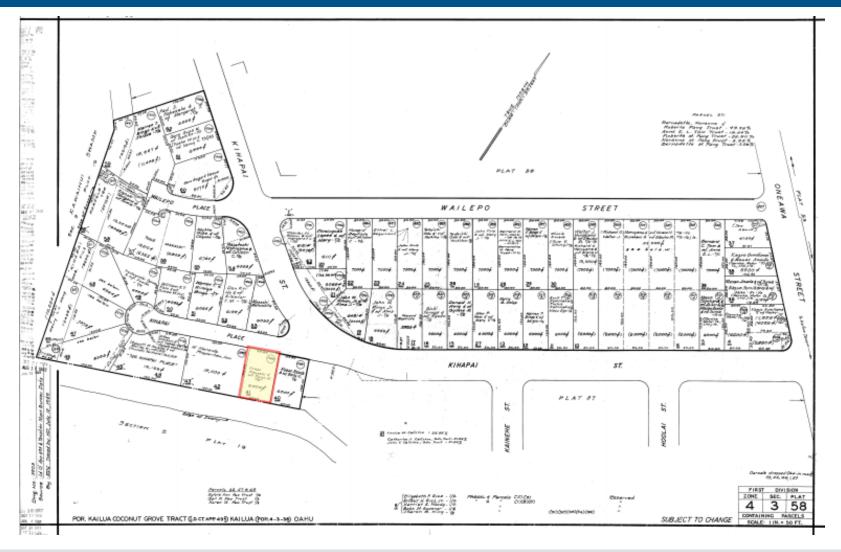
#### National Flood Hazard Layer FIRMette







#### Effective FIRM/Tax Map



**FEMA** 

#### **Elevation Form/Certificate**

	FEDERAL EMERG	ENCY MANAGE			O.M.B. NO. 3067-0147 Expires September 30, 2005
	BA		DEN DISCLOS	DE NOTIOE	
searching existing data sourc to respond to this collection o the accuracy of the burden es Management Agency, 500 C obtain or retain benefits unde	is form is estimated to a es, gathering and main f information unless a v stimate and any sugges Street, SW, Washingto r the National Flood Ins	average 1 hour per taining the needed alid OMB control r tions for reducing i n DC 20472, Pape urance Program.	r response. The bu d data, and completi number appears in t this burden to: Infor nwork Reduction Pr Please do not sen	rden estimate includes the time ng, reviewing, and submitting th he upper right comer of this for mation Collections Managemer oject (3067-0147). Submission d your completed survey to t	the form. You are not required m. Send comments regarding it, Federal Emergency of the form is required to he above address.
National Flood Insurance P For requests to remove a stru grade (the lowest ground tour	rogram (NFIP) Elevati icture on natural grade ching the structure), inc	on Certificate ma OR on engineered luding an attached	y be submitted in fill from the Specia deck or garage. Fo	red professional engineer or lice addition to this form for singl I Flood Hazard Area (SFHA), si r requests to remove an entire bounds, provide the lowest ele	ubmit the lowest adjacent
NFIP Community Number     Are the elevations listed     What is the elevation dat     effective Flood Insurance	below based on g	he elevations liste	oposed conditions?	uted using a datum different the	an the datum used for the
	sed structures listed be ab on grade base	olow, what are the	types of construction other (explain)	n? (check all that apply)	
5. Has FEMA identified this If yes, what is the date o	area as subject to lan f the current releveling	d subsidence or up ? / (mo Lowest Adjacent	blift? (see instruction inth/year) Base Flood	is) Yes No	
Lot Number Number	Elevation	Grade To Structure	Elevation	For FEM	A Use Only
elevation information. All de	ocuments submitted in	support of this re	equest are correct	to the best of my knowledge	ct authorized by law to certify I understand that any false
tatement may be punishable	by fine or imprisonmer	nt under Title 18 of	the United States (	Code, Section 1001.	
Company Name:		License		Expiration D	Date:
Signature :		Date:		Pax No	
					Seal (optional)
FEMA Form 81-87A, SEP 02	2	Eleva	ation Form		MT-1 Form 2 Page 1 of 2

	Emergency Manager									
Vationa	al Flood Insurance Pro	xgram			nstructions on					_
A1 6	Building Owner's Nam		SECTI	ON A - PRO	OPERTY INFOR	MATION			urance Company U	se:
								Policy N	Number	
A2. E	Building Street Addres	s (including Apt.,	Unit, Suite, and/or Blo	dg. No.) or P.	O. Route and Box	No.		Compa	ny NAIC Number	
	City				State			ZIP Code		
A3. F	Property Description (I	Lot and Block Nu	mbers, Tax Parcel Nu	mber, Legal I	Description, etc.)					
A4. E	Building Use (e.g., Re:	sidential, Non-Re	sidential, Addition, Ac	cessory, etc.)	)					
	Latitude/Longitude: La		Long			Ho	rizontal D	latum:	NAD 1927	AD 198
A6. A	Attach at least 2 photo	graphs of the bui	ilding if the Certificate	is being used	to obtain flood in	surance.				
	Building Diagram Num For a building with a cr		losuro(e) provido:		40 Fee	e huitden uit				
A0. F	<ul> <li>a) Square footage of</li> </ul>	crawl space or en	nclosure(s), provide:	sq f		a building wit Square foota	th an atta	ched garag	je, provide:	sa ft
t	<ul> <li>No. of permanent f</li> </ul>	lood openings in	the crawl space or						in the attached gar	
	enclosure(s) walls	within 1.0 foot at	ove adjacent grade _			walls within 1	.0 foot at	xove adjace	ent grade	
c	<li>c) Total net area of float</li>	ood openings in /	A8.b _	sq ir	n c)	Total net are	a of flood	openings i	n A9.b	sq in
		SEC	TION B - FLOOD IN	SURANCE	RATE MAP (F	IRM) INFOR	RMATIO	N		
B1. N	FIP Community Name	e & Community N	lumber B	2. County Na	ame			B3. State		
04	Map/Panel Number	B5, Suffix				1				
D4.	mapir and Number	BS. SUIIX	B6. FIRM Index Date		FIRM Panel ve/Revised Date		Flood ne(s)		ise Flood Elevation , use base flood d	
			Elevation (BFE) data or	r base flood o	depth entered in It	em B9.				
l	FIS Profile	FIRM								
			Community Determine		Other (Describe)					
511. li	indicate elevation datu	m used for BFE	in Item B9: NGVD	1929	NAVD 1988	Other (De	escribe) _			
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## Community Acknowledgment Form

	L EMERGENCY MANA	EDGMENT AGENCY		O.M.B. NO. 3067-0147 Expires September 30, 200
	PAPERWORK	URDEN DISCLOSURE NOTICE		
Public reporting burden for this form is e searching existing data sources, gatherir to respond to this collection of informatio the accuracy of the burden estimate a Management Agency, 500 C Street, 5V obtain or retain benefits under the Nation	stimated to average 0.88 h ig and maintaining the nee n unless a valid OMB cont nd any suggestions for r ( Washington DC 20472	nour per response. The burden estima aded data, and completing, reviewing, rol number appears in the upper right of educing this burden to: Information ( Panerwork Reduction Project (2003)	and submitting t corner of this for Collections Man	the form. You are not requir m. Send comments regardi agement, Federal Emergen
This form must be completed for reques this request to remove a property from th	ts involving the existing of SFHA which was previou	r proposed placement of fill (complete usly located within the regulatory floodw	Section A) OR ray (complete S	to provide acknowledgment ection B).
This form must be completed and signe subject property address must appear in	d by the official responsi the spaces provided below	ble for floodplain management in the	community. Th	e community number and t
Community Number:	Property Name or Address			
A. REQUESTS INVOLVING THE PLACE	MENTOFFILL			
Based on Fill (LOMR-F) or Conditional 1: designed to meet all of the community for and that all necessary Federal, State, an determined that the land and any existing 44CFR 65 (2c), and that we have availab requests, we understand that this nequest Community Comments	odplain management requid local permits have been, or proposed structures to le upon request by FEMA.	irements, including the requirement the or in the case of a Conditional LOMR-F be removed from the SFHA are or will all analyses and documentation used to	t no fill be place , will be obtaine be reasonably s	ed in the regulatory floodway ed. In addition, we have take from flooding as defined
Community Official's Name and Title: (P	ease Print or Type)		Telep	hone No.:
Community Name:	Commun	ity Official's Signature: (required)	Date:	
B. PROPERTY LOCATED WITHIN THE				
As the community official responsible for We understand that this request is being we acknowledge that no fill on this prope proposed project meets or is designed to Community Comments:	forwarded to FEMA to dete rty has been or will be place	ermine if this property has been inadver ced within the designated regulatory for	hebuloni vitnet	in the regulatory floodway
Community Official's Name and Title: (P)	ease Print or Type)		Telep	hone No.:
Community Name:	Commun	ity Official's Signature (required):	Date:	
FEMA Form 81-87B, SEP 02		Acknowledgment Form		



## Endangered Species Act (ESA)

ESA Compliance Documentation for Projects with Federal Actions:

- A "No Effect" determination made by the federal agency
- A "Not Likely to Adversely Affect" determination from the Services;
- A biological opinion with a "no jeopardy" determination; or
- A copy of a federally issued permit with justification that the proposed development for which a CLOMR or CLOMR-F is sought is covered by the permit.



## Endangered Species Act (ESA)

#### ESA Compliance Documentation for Non-Federal Projects:

- For requests without a Federal action, compliance with Sections 9, and if appropriate 10, of the ESA must be achieved independently of FEMA's process
- Documentation that the project is compliant with the ESA may be submitted in the form of a written and signed statement from the community official responsible for floodplain permitting will suffice.
- The Community Acknowledgement Form of the MT-1 Form for CLOMR-F requests can be used
- Potential for adverse effects will require coordination with the Services The Community Acknowledgement Form of the MT-1 Form can be used for CLOMR-F requests



#### Fees

Requests for Single-Lot, Single-Structure Map Change	Paper Form Fee	Online LOMC Fee
Single-Lot or Single-Structure LOMA	Free	Free
Single-Lot/Single-Structure CLOMA and CLOMR-F	\$600	\$500
Single-Lot/Single-Structure LOMR-F	\$525	\$425
Single-Lot/Single-Structure LOMR-F Based on As-Built Information (CLOMR-F previously issued by FEMA)	\$425	\$325
Requests for Multiple-Lot/Multiple-Structure Map Changes	Paper Form Fee	Online LOMC Fee
Multiple-Lot/Multiple-Structure LOMA	Free	Free
Multiple-Lot/Multiple-Structure CLOMA	\$800	\$700
Multiple-Lot/Multiple-Structure CLOMR-F and LOMR-F	\$900	\$800
Multiple-Lot/Multiple-Structure LOMR-F Based on As-Built Information (CLOMR-F previously issued by FEMA)	\$800	\$700



#### Metes and Bounds Description

- Used to remove a portion of property from the SFHA when the entire property cannot be removed
- Must be tied into a point found on a legally recorded deed or plat
- Requestor to submit all recorded plats and deeds for properties located in the described area
- All portions of described area to be at or above the BFE
- Cannot contain any areas of water such as streams, lakes, or detention ponds



#### Metes and Bounds Description

- Can describe a portion of one lot, portions of multiple lots, or entire proposed lots that have not yet been recorded on a plat
- Should always have a beginning and end (closed description, no lines)
- Must be in the form of bearings and distances (i.e. "thence N00°00'00"W, 328.00 feet")
- Cannot follow a contour without also containing bearings and distances (i.e. "thence 200 feet along the 730 foot contour" is unacceptable)

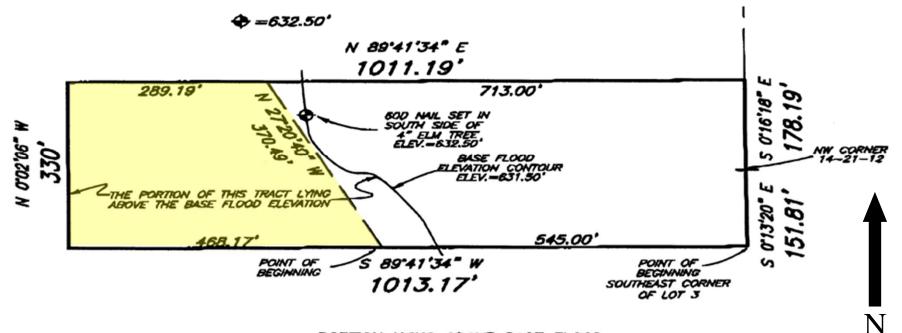


#### Metes and Bounds Description

- Must be signed and sealed by a licensed land surveyor or professional engineer
- Description to be sent to FEMA in Microsoft Word format
- Must contain spot elevations along the perimeter when a range of BFEs will be used



#### Metes and Bounds Map



#### PORTION LYING ABOVE BASE FLOOD:

A PART OF LOT THREE (3) IN THE SOUTHEAST QUARTER (SE/4) OF SECTION TEN (10), TOWNSHIP TWENTY-ONE (21) NORTH, RANGE TWELVE (12) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE UNITED STATES GOVERNMENT SURVEY THEREOF, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 3, THENCE SOUTH 89'41'34" WEST ALONG THE SOUTH LINE A DISTANCE OF 545.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING \$ 89'41'34" W ALONG SAID SOUTH LINE A DISTANCE OF 468.17 TO THE SOUTHWEST CORNER THEREOF; THENCE N 00'02'06" W ALONG THE WEST LINE OF SAID LOT 3 A DISTANCE OF 330.00 FEET; THENCE N 89'41'34" E A DISTANCE OF 289.19 FEET; THENCE \$ 27'20'40" E A DISTANCE OF 370.49 FEET TO THE POINT OF BEGINNING.







# **Processing Issues**





## Common Issues

- Missing community Concurrence Form
- Missing or incorrect fees
- Lowest Adjacent Grade above BFE, Lowest Floor below BFE, (non removal)
- No datum on the elevation certificate/form
- Missing ESA documentation (For CLOMR-Fs only)
- Proposed instead of existing conditions
- Deed or plat is not recorded
- Deed is missing legal description of property
- Tax map does not contain an intersection of streets that also appears on the FIRM (can't plot)



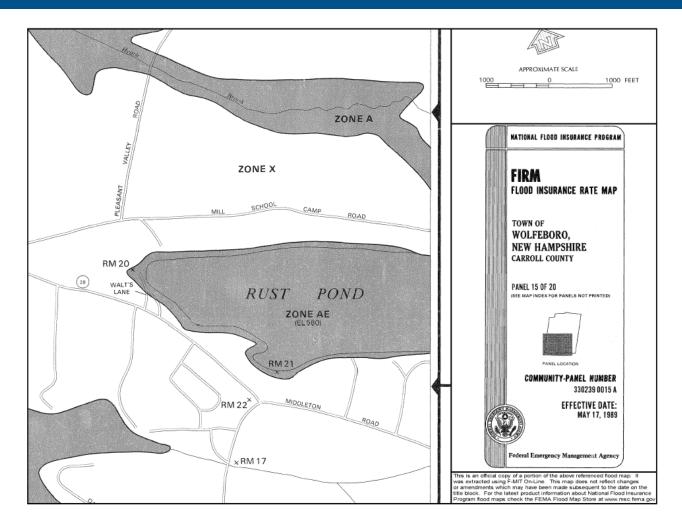


#### **Common Issues**

- The request is for a LOMA, but all previous properties in subdivision have been processed as LOMR-Fs
- Major changes have been made to the flooding source; e.g., stream has been contained in culvert, channel grading, etc. (should be LOMR)
- The Lowest Adjacent Grade (LAG) is lower than the Lowest Lot Elevation (LLE). (not possible)
- Fill has been placed in the regulatory floodway. (potential violation)

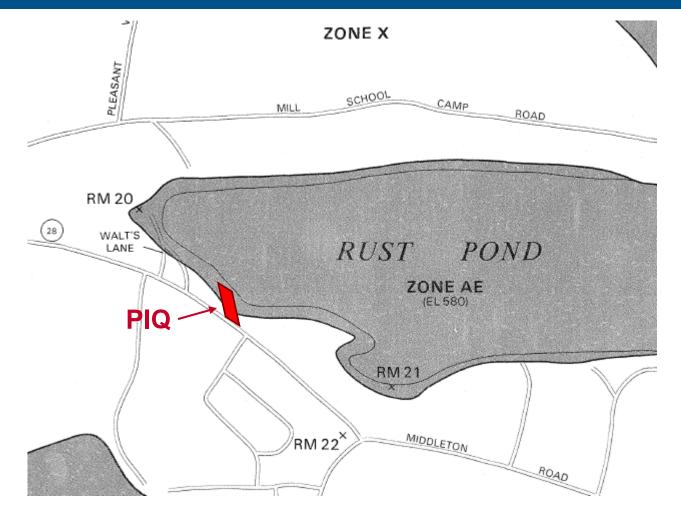


# BFE Development









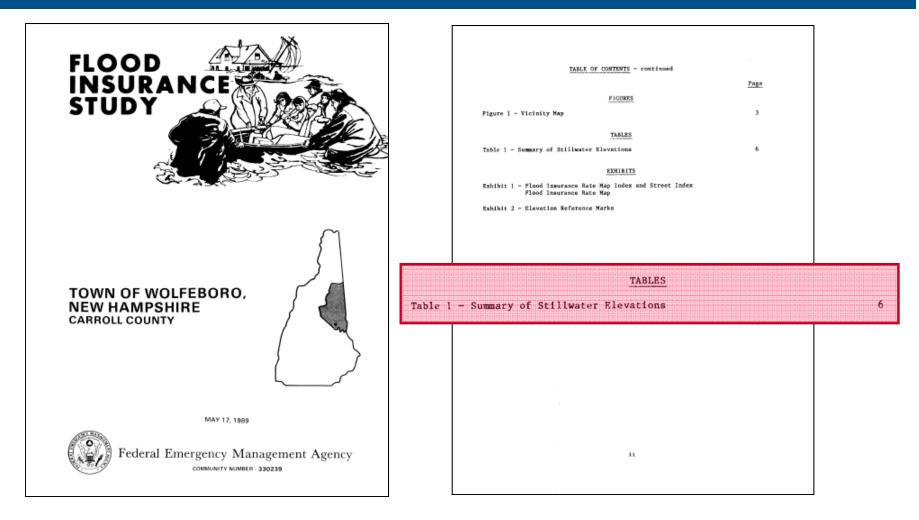




- Consult the FIS report for the community in which the property is located.
- Locate the Summary of Stillwater Elevations (SOE) table.
  - The flooding source will be listed by name.
  - Use the BFE listed in the table.
  - The BFE is normally shown to the nearest onetenth of a foot.
- If the flooding source is not listed in the SOE table, use the BFE as shown on the FIRM.











3.1 Hydrologic and Hydraulic Analyses

Analyses were carried out to establish the peak elevation-frequency relationships for the flooding sources studied in detail affecting the community.

Peak elevation-frequency relationships for Lake Winnipesaukee were determined from a Log-Pearson Type III analysis obtained from USGS gage No. 01080000 (Reference 4).

Peak elevation-frequency relationships for Lake Wentworth-Crescent Lake and Rust Pond were determined by hydrologic models (TR-20 and TR-43) which subjected the structures to two different types of fload events (References 6 and 7). The first situation generates floads, due to rainfall alone, with the lakes at normal summer pool level. No openings of gates or removal of stop-logs is assumed. The second situation assumes floads due to runoff from snowmelt/rainfall events occurring when the lakes are drawn down to their winter levels and all gates are open. The higher elevation created by the two tests was chosen for each of the four frequency floads studied.

The stillwater elevations for the 10-, 50-, 100-, and 500-year floods have been determined for each flooding source studied in detail and are summarized in Table 1, "Summary of Stillwater Elevations."

TABLE 1 - SUMMARY OF STILLWATER ELEVATIONS

	ELEVATION (feet)					
FLOODING SOURCE AND LOCATION	10-YEAR	50-YEAR	100-YEAR	500-YEAR		
LAKE WINNIPESAUKEE Entire shoreline within community	505.4	505-9	506-2	506.7		
LAKE WENTWORTH-CRESCENT LAKE Entire shoreline	535.7	536+2	536.4	536.9		
RUST POND						
Entire shoreline	579.9	580.2	580.4	580.7		

Analysis of the hydraulic characteristics of Lake Winnipesaukee was not necessary as elevation records are available at USGS gage No. 01080000. The hydraulics of the outlets for Crescent Lake and Rust Pond were based on standard weir and orifice equations.

All elevations are referenced to the National Geodetic Vertical Datum of 1929 (NCVD). Elevation reference marks used in this study are shown on the Flood Insurance Rate Maps (Exhibit 1); the descriptions of the marks are presented in Elevation Reference Marks (Exhibit 2).

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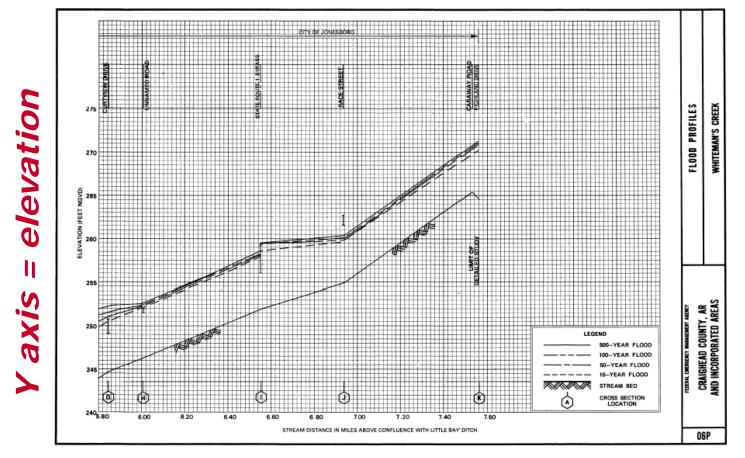
TABLE 1 - SUMMARY OF STILLWATER ELEVATIONS

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LAKE WENTWORTH-CRESCENT LAKE Entire shoreline	535.7	536.2	536-4	536.9
RUST POND Entire shoreline	579.9	580.2	580.4	580.7



- Profiles are located in the communities FIS text.
- A flood profile is a plot, on a graph, of computed flood elevations at and between the floodplain cross sections.
- They contain bridge, streambed, stream crossing, and cross section location data.
- The bottom or X-axis shows the distance along the river or stream.
- The left side or Y-axis shows elevation and datum.

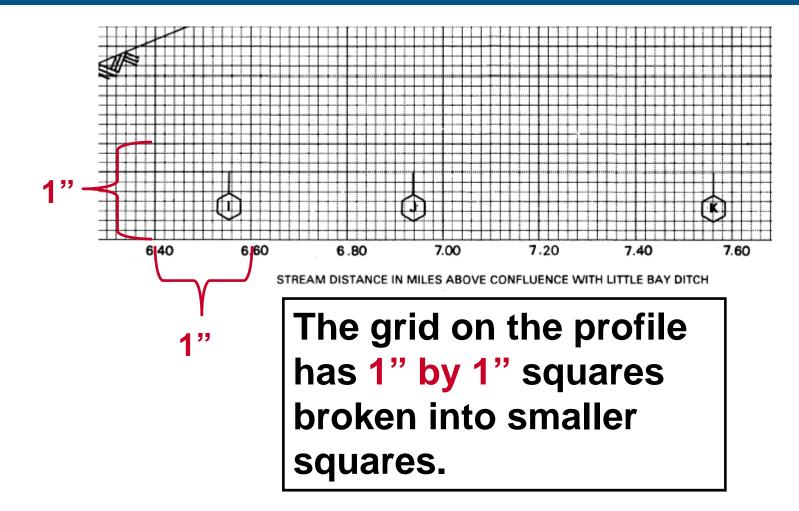




#### X axis = distance



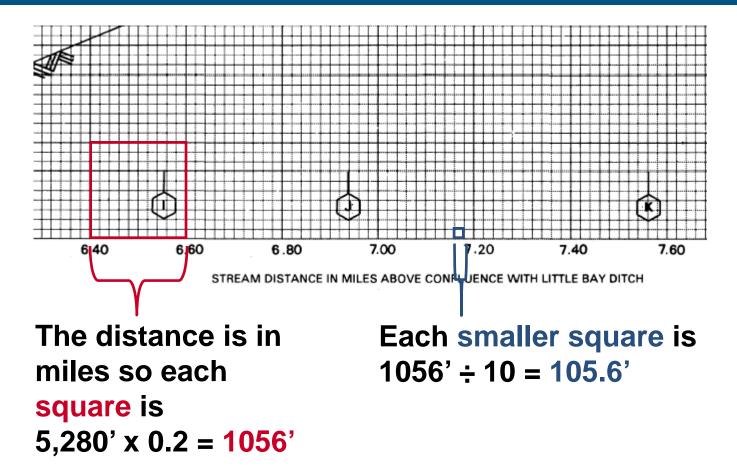






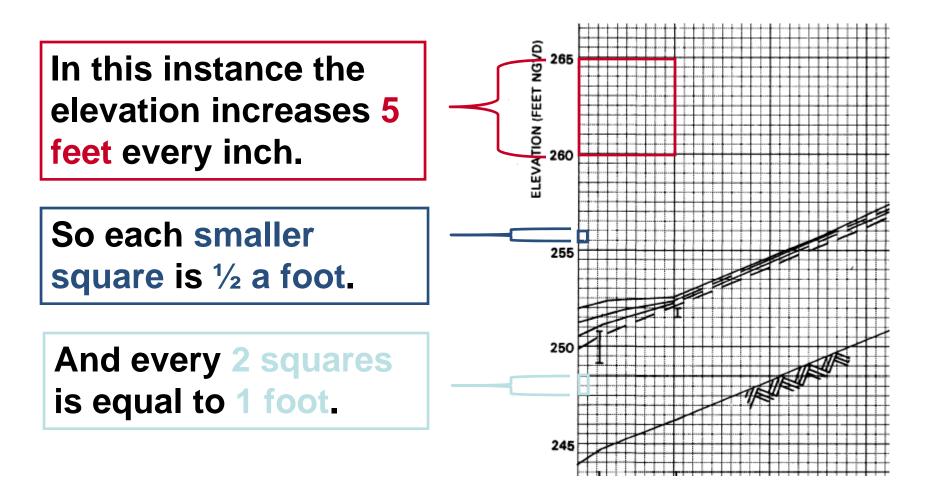


#### Using the Profile – X axis

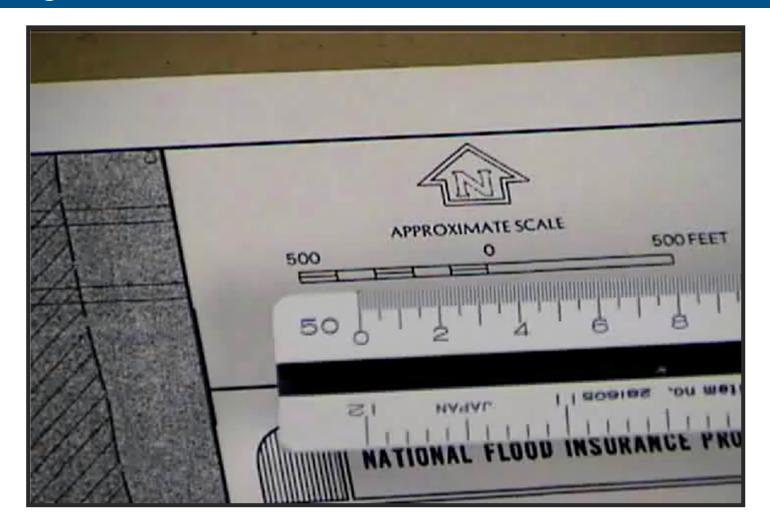




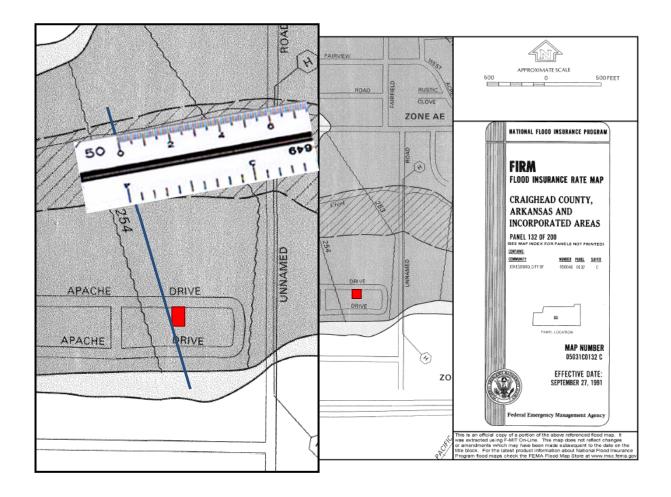
#### Using the Profile – Y axis





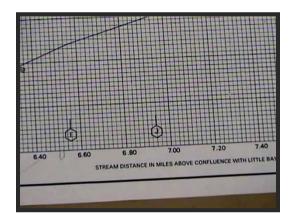






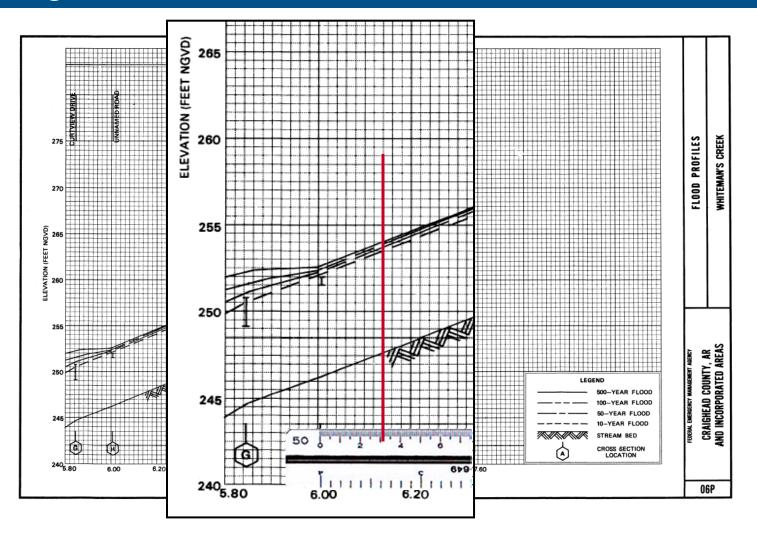














#### Using the Profile Floodway Data Table

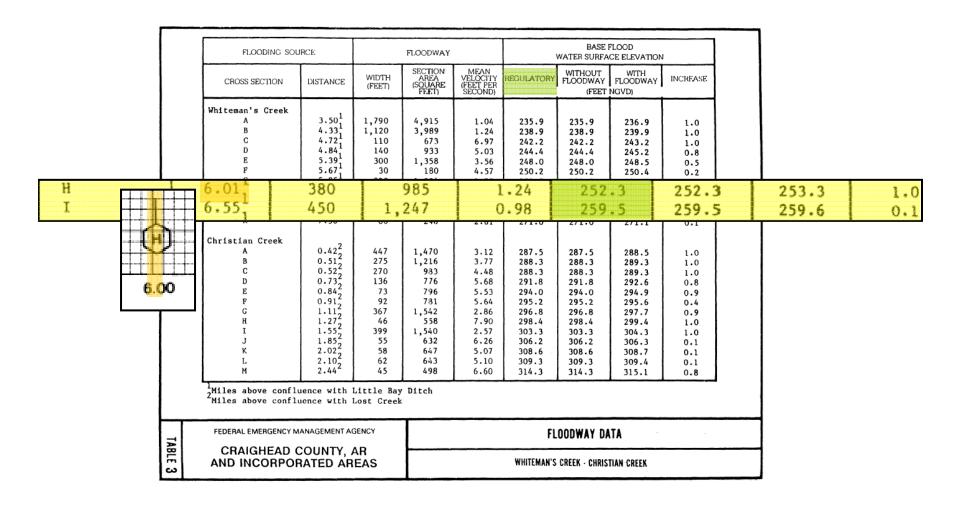
### It is important to use the Floodway Data Table (FWDT) in conjunction with the profile to determine an accurate BFE

- Cross section distances should match
- BFE should be equal to or in between the elevations referenced on the FWDT
  - For example, if PIQ is between cross sections H and I, (252.3 and 259.5), PIQ's BFE can not be less than 252.3 or greater than 259.5





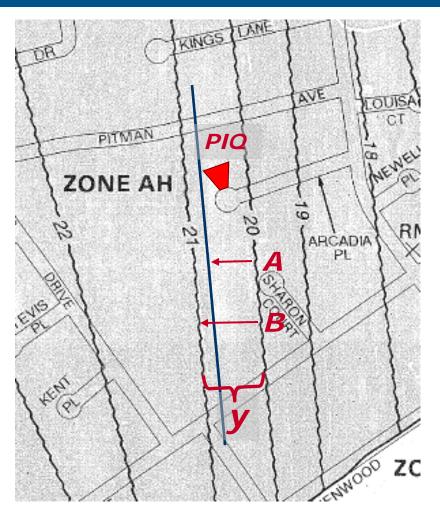
#### Using the Profile Floodway Data Table





- Taking known data points (BFE lines) to develop a new BFE at the Property in Question (PIQ).
  - Draw a cross section at the upstream end of the PIQ.
    - Cross section is drawn parallel to the BFE lines.
  - Measure the distance from the downstream (d/s) BFE line to the PIQ (A)
  - Measure the distance from the d/s BFE line to the upstream (u/s) BFE line (B)
  - Find the elevation difference between the d/s BFE and the u/s BFE (y)





$$(A \div B)y = X$$

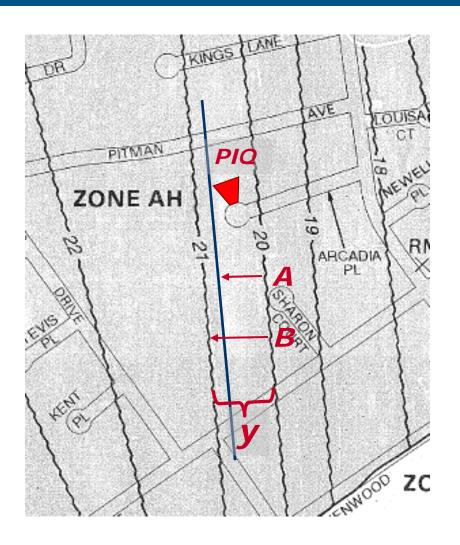
X + d/s elev. = new BFE

A = distance from the downstream
(d/s) BFE line to the cross section of the upstream (u/s) end of the PIQ.

**B** = the distance from the d/s BFE line to the u/s BFE line

**y** = the difference in elevation between the two BFE lines.





- **A** = 140 feet
- **B** = 210 feet
- **y** = 1 foot





### LOMA's and Zone D

#### Zone D

- The Zone D designation is used for areas where there are possible but undetermined flood hazards, as **no analysis of flood hazards has been conducted**. The designation of Zone D is also used when a community incorporates portions of another community's area where no map has been prepared.
- Since there is not analysis there are no BFE's established
- Mandatory flood insurance nor required.
- Flood insurance is available.
- LOMA's cannot remove a property or structure from a Zone D.
- To change designation from a Zone D to a Zone X (or any other Zone) a full flood hazard analysis would need to be performed and the maps revised.



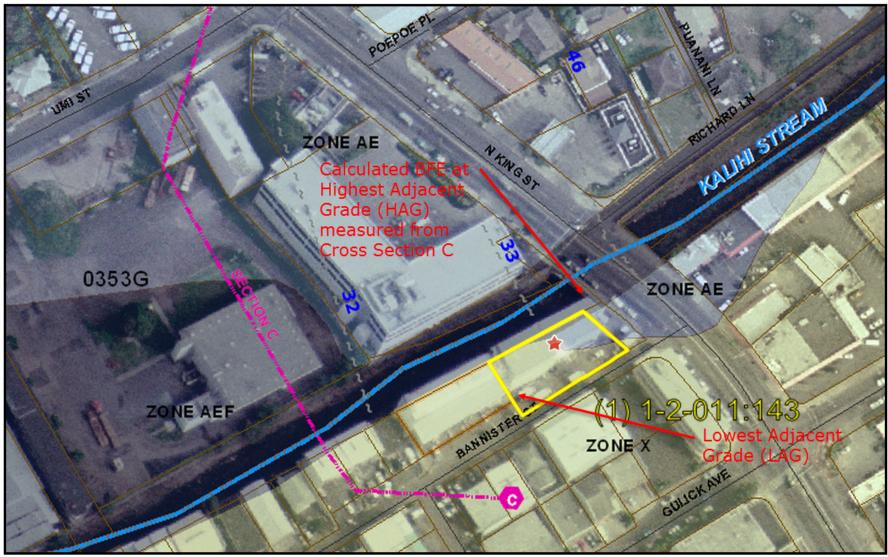
## LAG & LFE

#### LOMA Determination Requirements

- LOMA Requests Involving One or More Structures: For a LOMA to be issued by FEMA to remove one or more structures from the SFHA, the NFIP regulations require that the lowest adjacent grade (the lowest ground touching the structure) be at or above the BFE.
- LOMA Requests Involving One or More Lots: For a LOMA to be issued by FEMA to remove one or more entire lots from the SFHA, the NFIP regulations require that the lowest point on the lot(s) must be at or above the BFE.





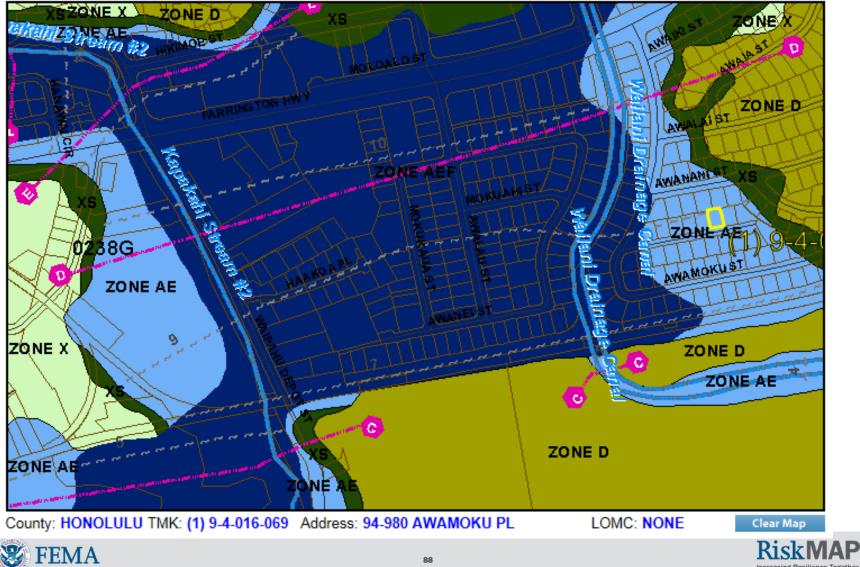


County: HONOLULU TMK: (1) 1-2-011-143 Address: 918 BANNISTER ST

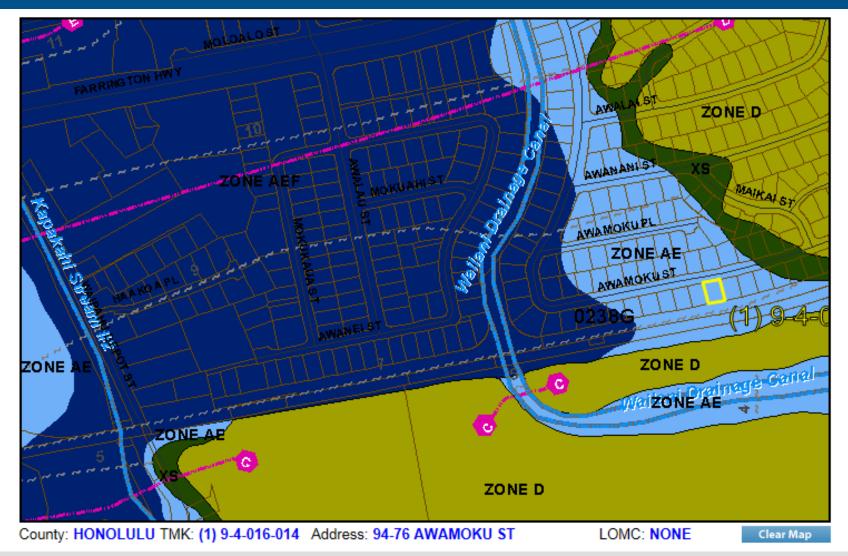
LOMC: 13-09-2276A Clear Map



	Page '	1 of 2		[	Date: July 23, 201	3 Ca	ase No.: 13-09-	2276A	LOMR-FW	
				Federal En	Washington			Agency		
				TER OF MA	_	_				
				ERMINATIO	N DOCUM					
	COMMUNITY			L INFORMATION TY OF HONOLULU, WAII	LEGAL PROPERTY DESCRIPTION Lots 90, 91, 92, and a portion of Lot 89, Waterhouse Tract, as described in the Warranty Deed recorded as Document No. 43741142, in the Office of the Bureau of Conveyances, Honolulu County, Hawaii					
			COMMUNITY NO.: 1	50001	-					
	AFFECTED MAP PANEL		NUMBER: 15003C0							
			DATE: 1/19/2011							
	FLOODING S			EAM	APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 21.334, -157.880 SOURCE OF LAT & LONG: GOOGLE EARTH PRO DATUM: NAD 83					
		DETERMINATION								
	LOT	BLOCK		STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (LTD)	LOWEST ADJACENT GRADE ELEVATION (LTD)	LOWEST LOT ELEVATION (LTD)	
	89 - 92	-	Waterhouse Tract	918 Bannister Street	Structure	X (shaded)	33.4 feet	35.7 feet	-	
			Hazard Area (SFH eeded in any given y	IA) - The SFHA is an ear (base flood).	area that would be	inundated I	by the flood having	ng a 1-percent o	chance of being	
	ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)									
	INADVERTENT INCLUSION FLOODWAY 1 PORTIONS REMAIN IN THE SFHA STUDY UNDERWAY									
	This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Revision for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are not located in the NFIP regulatory floodway or the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document revises the effective NFIP map to remove the subject property from the NFIP regulatory floodway and the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.									
	you hav	ve any que	estions about this docu	d data presently available ument, please contact the anagement Agency, LOM	FEMA Map Assistan	ce Center toll	free at (877) 336-2	2627 (877-FEMA I		
					Luis Rodriguez, P.E.,	Chief	>			 
🍪 FEMA					Federal Insurance and		ministration			

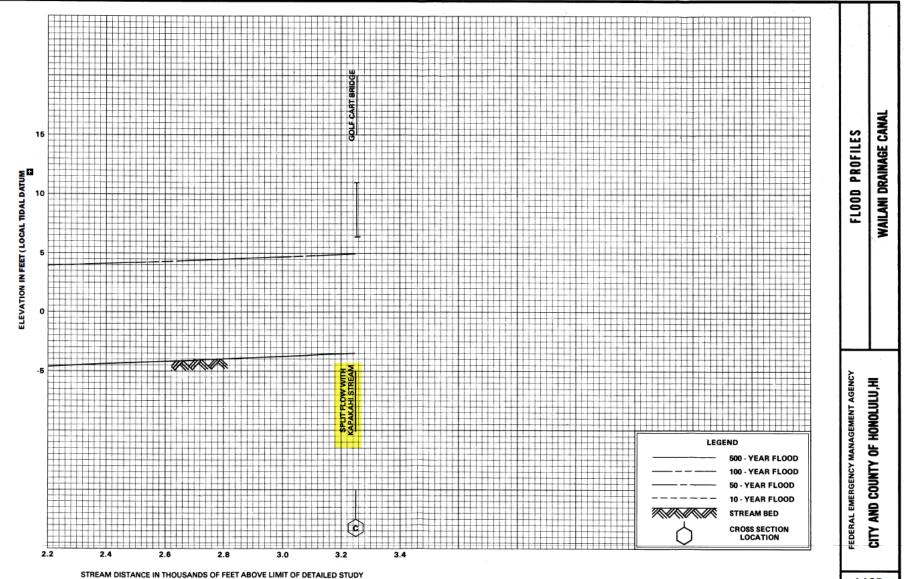


Increasing Resilience Together

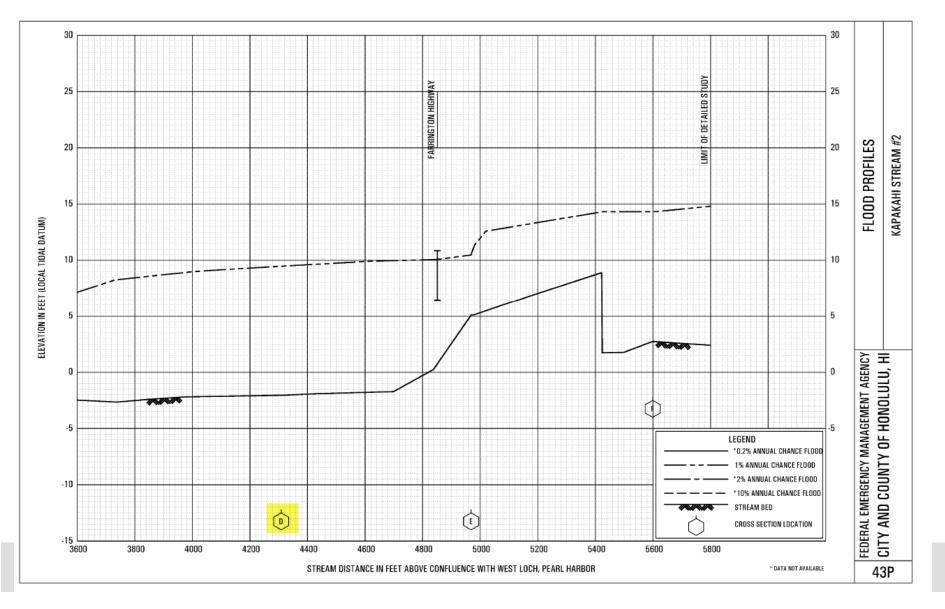




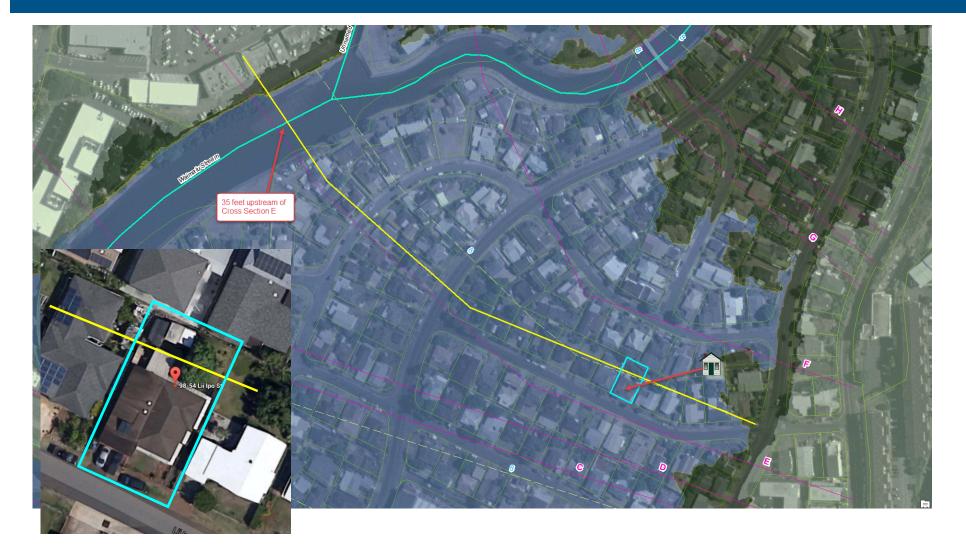




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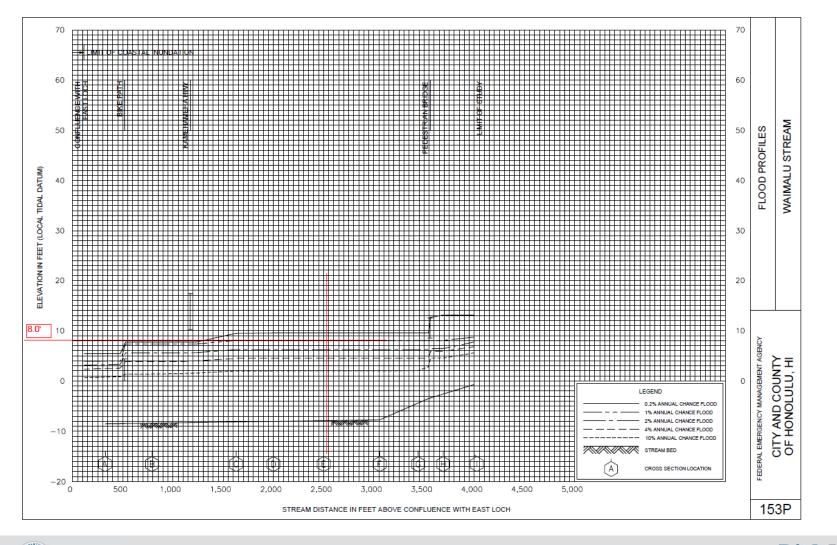
## **Cross Sections Perpendicular to Flow**







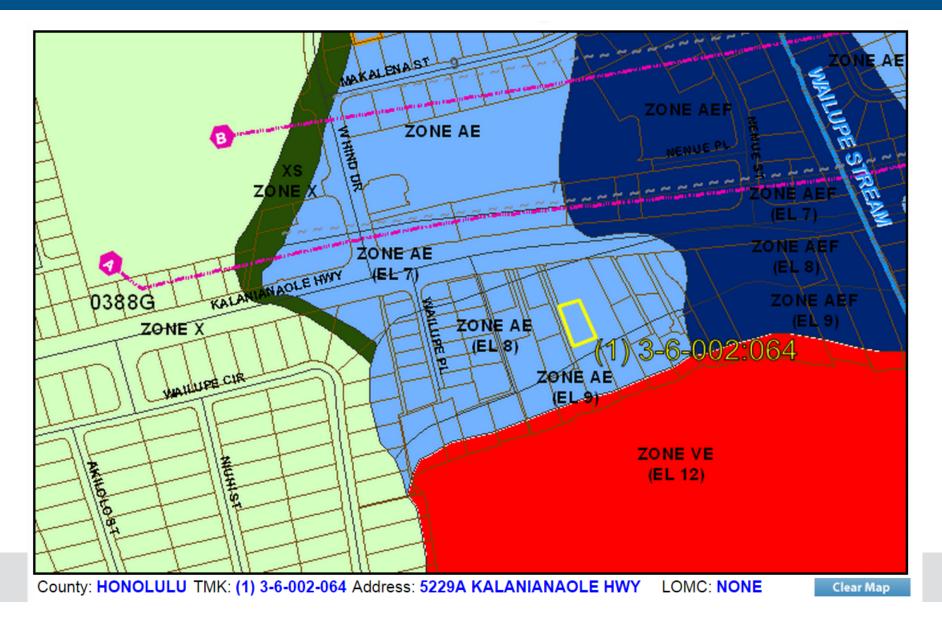
#### **Cross Sections Perpendicular to Flow**



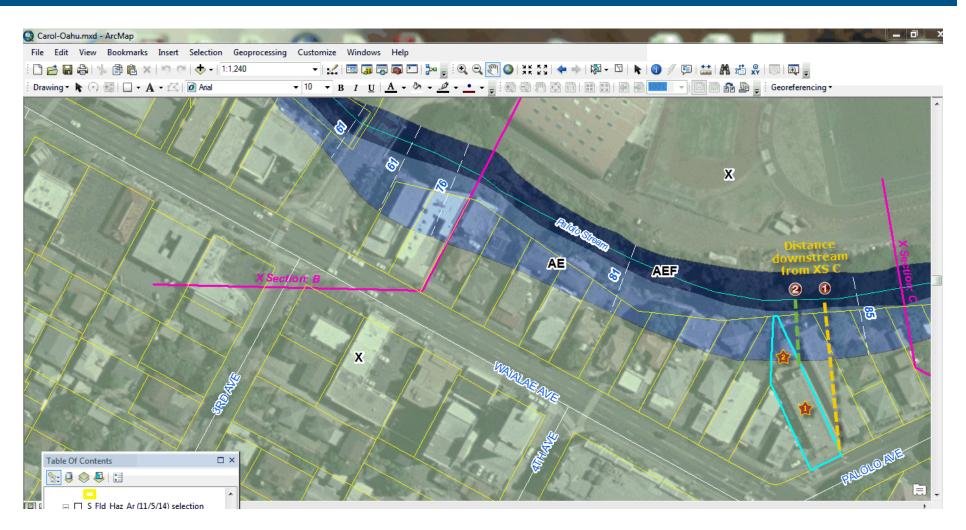




#### **BFE Discrepancies**



#### Attached Vs. Detached Structures







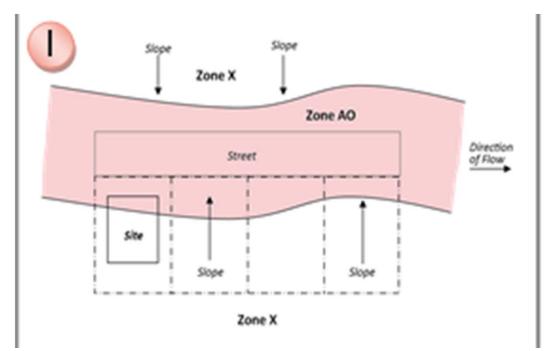
# LOMA: Zone AO Guidance





# Zone AO – Scenario 1

Lot Partially Inundated by AO Zone and Flow is Street Conveyed



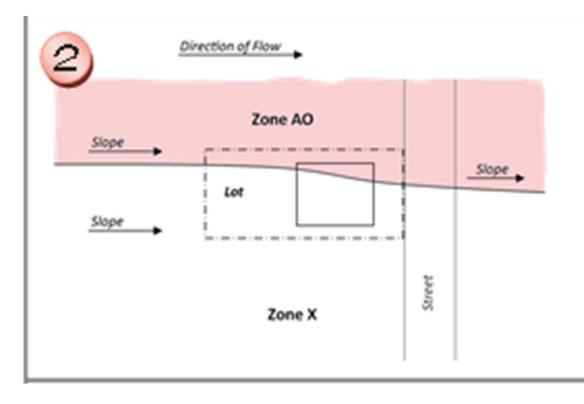
BFE = Depth Number + Highest Top of Curb or Crown of Street Elevation (whichever is higher)





# Zone AO – Scenario 2

# Scenario 2 - Lot Partially Inundated and Flow is not Street Conveyed



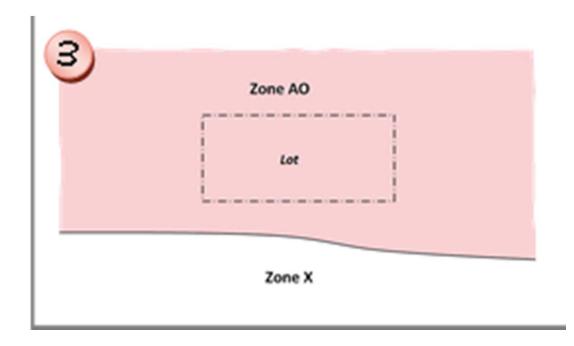
BFE = Depth Number + Lowest Lot Elevation





# Zone AO – Scenario 3

# Scenario 3 – Entire Lot Inundated and Flow is not Street Conveyed



#### BFE = Depth Number + Average Surrounding Grade





# Data Requirements for AO Zone

In addition to the standard data requirements, following data is required:

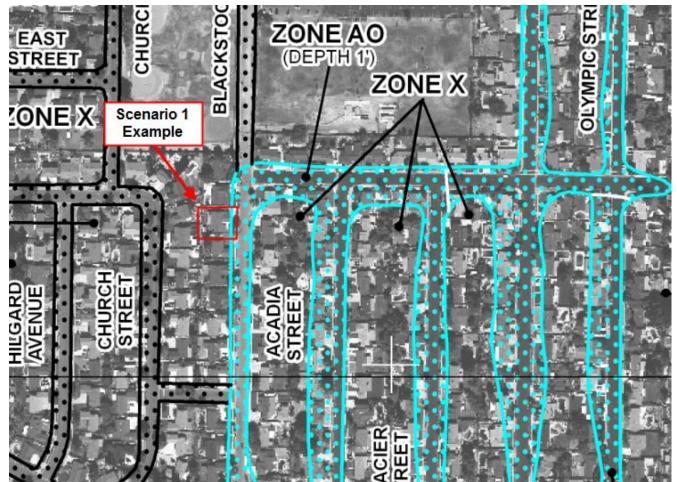
- Adequate drainage paths are required to guide floodwaters around and away from the structure(s)
- A certified map showing the topographic data of the property and the immediate surrounding area
- Highest Top of Curb elevation

Please note that in addition to the above requirements, for the structure to be compliant and to qualify for removal LFE = or > HAG + Depth Number





Scenario 1 Example: Partial Lot Inundation & Flow Conveyed by Street





Scenario 2 Example: Partial Lot Inundation & Flow Not Conveyed by Street/Road





Increasing Resilience Togethe

## Scenario 2 Example: Partial Lot Inundation & Flow Not Conveyed by Street/Road







#### Scenario 2 Example: Partial Lot Inundation & Flow Not Conveyed by Street/Road

Page	1 of 2			C	ate: November	06, 2014 Ca	ise No.: 14-09-	4243A	LOM		
		(	Y	Federal Em		Manag		Agency			
			DET	LETTER O							
	MMUN			ERMINATIO							
	UNITY		TY AND COUNT	Y OF HONOLULU, WAII	Lot 11, Block 2, Waialae Neighborhood Subdivision Tract A, as shown on the Plat recorded as File No. 478, in the Office of the Bureau of Conveyances, Honolulu County, Hawaii						
		CON	MUNITY NO.: 1	50001							
AFFECTED MAP PANEL		NUN	BER: 15003C0	369H							
		DAT	E: 11/5/2014								
FLOOI	FLOODING SOURCE: SHEET FLOW				APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 21.276, -157.789 SOURCE OF LAT & LONG: GOOGLE EARTH PRO DATUM: NAD 8						
					DETERMINATIO	ON					
LOT	BLOCK/ SECTION		SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (LTD)	LOWEST ADJACENT GRADE ELEVATION (LTD)	LOWEST LOT ELEVATION (LTD)		
11	2		Waialae Neighborhood Tract A	1178 Hunakai Street	Structure	X (shaded)	47.5 feet	49.0 feet			
Speci	al Floo	d Ha	zard Area (SFH ed in any given y	A) - The SFHA is an	area that would be	inundated b	y the flood havi	ng a 1-percent c	hance of beir		
ADDI	TIONAL	CON	SIDERATIONS (	Please refer to the appro	priate section on Atta	chment 1 for th	e additional consid	lerations listed belo	w.)		
	IONS RE		IN THE SFHA								
describ structur any giv map; th require the PRI This de you hav	ed abov re(s) on t en year merefore, ment to p P and ho eterminative any q	e. Us he pro (base the F protec w one ion is uestio	ing the informatio pperty(ies) is/are n flood). This docun ederal mandatory t its financial risk o can apply is enclo based on the flood ns about this docu	ergency Management Ag n submitted and the eff of located in the SFHA, as nent amends the effective flood insurance requirem n the loan. A Preferred issed. d data presently available mment, please contact the anagement Agency, LOM	ective National Floor narea inundated by the NFIP map to remove ent does not apply. Risk Policy (PRP) is a . The enclosed docur FEMA Map Assistan	d Insurance P he flood having e the subject p However, the I available for bu ments provide	rogram (NFIP) ma a 1-percent chance roperty from the S ender has the opti- ildings located out additional informate free at (877) 336-2	ap, we have dete ce of being equale( FHA located on th ion to continue the side the SFHA. In tion regarding this 2627 (877-FEMA N	rmined that the d or exceeded in e effective NFIF flood insurance formation about determination.		
					uis Rodriguez, P.E.,	2	>				



