

Federal Emergency Management Agency

Washington, D.C. 20472

March 13, 2017

CERTIFIED MAIL RETURN RECEIPT REQUESTED

The Honorable Kimberley Driscoll Mayor, City of Salem 93 Washington Street Salem, MA 01970

IN REPLY REFER TO:

Case No.:

17-01-0158P

Community Name: City of Salem, MA

Community No.:

250102

Effective Date of

This Revision:

July 25, 2017

Dear Mayor Driscoll:

The Flood Insurance Study Report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other enclosures specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Boston, Massachusetts, at (617) 832-4761, or the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

Sincerely,

Patrick "Rick" F. Sacbibit, P.E., Branch Chief

Engineering Services Branch

Federal Insurance and Mitigation Administration

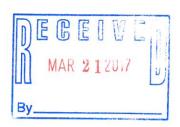
List of Enclosures:

Letter of Map Revision Determination Document Annotated Flood Insurance Rate Map Annotated Flood Insurance Study Report

cc:

Mr. Tom Devine, AICP Senior Planner City of Salem

Mr. John S. Ramsey, P.E. Senior Coastal Engineer and Principal Applied Coastal Research and Engineering



Issue Date: March 13, 2017

Effective Date: July 25, 2017

Case No.: 17-01-0158P

LOMR-APP



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LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST		
COMMUNITY	City of Salem Essex County Massachusetts	NO PROJECT	COASTAL ANALYSIS UPDATED TOPOGRAPHIC DATA		
	COMMUNITY NO.: 250102				
IDENTIFIER	Salem-Juniper Point	APPROXIMATE LATITUDE AND LONGITUDE: 42.532, -70.868 SOURCE: Precision Mapping Streets DATUM: NAD 83			
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES			
TYPE: FIRM* TYPE: FIRM* TYPE: FIRM*	NO.: 25009C0419G DATE: July 16, 2014 NO.: 25009C0436G DATE: July 16, 2014 NO.: 25009C0438G DATE: July 16, 2014	DATE OF EFFECTIVE FLOOD INSURAL TRANSECT DATA TABLE: 11 TRANSECT DESCRIPTION TABLE:			

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE AND REVISED REACH

Atlantic Ocean via Salem Sound - an area seaward of Fort Avenue and Memorial Drive

SUMMARY OF REVISIONS						
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases		
Atlantic Ocean via Salem Sound	Zone VE	Zone AE	NONE	YES		
	Zone VE	Zone VE	NONE	YES		
	Zone AE	Zone VE	NONE**	YES		
	Zone AE	Zone AE	NONE	YES		

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief Engineering Services Branch

Federal Insurance and Mitigation Administration

17-01-0158P

102-I-A-C

Issue Date: March 13, 2017

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE AND REVISED REACH

Atlantic Ocean via Salem Sound - an area seaward of Fort Avenue and Memorial Drive

SUMMARY OF REVISIONS

Flooding Source

Atlantic Ocean via Salem Sound

Effective Flooding

Revised Flooding BFEs Increases

Decreases

YES YES

* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

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102-I-A-C



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance stillwater elevations computed in the FIS for your community. A comprehensive restudy of your community's flood hazards could establish greater flood hazards in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Dean Savramis
Director, Mitigation Division
Federal Emergency Management Agency, Region I
99 High Street, Sixth Floor
Boston, MA 02110
(617) 832-4761



This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.



This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

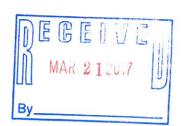
A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfe status/bfe main.asp

LOCAL NEWSPAPER

Name: Salem News

Dates: March 20, 2017 and March 27, 2017

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.



This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/national-flood-insurance-program.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief Engineering Services Branch Federal Insurance and Mitigation Administration

TABLE 10 ·	- TRANSECTS	DESCRIPTIONS	S-continued
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	TABLE 10 - TRANSLETS DESCRIT			
		ELEVATION (fee		
Transact	Logation	1-PERCENT- ANNUAL- CHANCE STILLWATER ²	MAXIMUM 1- PERCENT- ANNUAL- CHANCE WAVE CREST ³	
<u>Transect</u>	Location The Located Labora Franch			DE: (10ED
27	The transect is located along Forest	10.0	13.3	REVISED
	River at a point approximately 100			DATA PER
	feet northeast of the intersection of			LOMR
	Loring Avenue and Leggs Hill Road,			EFFECTIV
	extending northeast towards Salem			JULY 14,
	Harbor.			2017
28	The transect is located at a point	10.3	13.2	
20	approximately 250 feet west of the	T. E. T.		
	intersection of Essex Street and			
	Forrester Street, extending southeast			1
20	towards Salem Harbor.	10.9	16.7	6.
29	The transect is located at a point	10.9	10.7	
	approximately 1,200 feet southeast of			_
	the intersection of Fort Avenue and			
	Winter Island Road, extending east			<revisei< td=""></revisei<>
	towards the Atlantic Ocean.			DATA
30	The transect is located at a point	10.7	16.1	
	approximately 700 feet northwest of			
	the intersection of Fort Avenue and	L		
	Memorial Drive, extending northeast			
	towards the Atlantic Ocean.			
31	The transect is located at a point	10.3	14.0	
51	approximately 300 feet south of the			
	intersection of Hawthorne Street and			
	Endicott Street, extending northeast			
22	towards Beverly Harbor.	12.7	*	
32	The transect is located in Beverly	13.7		
	Harbor at a point approximately 100			
	feet southeast of the intersection of			
	Lovett Street and Abbott Street,			
	extending southeast towards the		INTERFERENCE	Eini
	Atlantic Ocean		13	
33	The transect is located at a point	13.6	MAR 21201	7
	approximately 800 feet southeast of		ПП	
	Neptune Street and Bay View Road,		Bv	
	extending south towards the Atlantic		Ly	
	Ocean.			
la e e e	V .: 1D . C1000			

REVISED TO REFLECT LOMR

EFFECTIVE: July 25, 2017

¹North American Vertical Datum of 1988

²Including stillwater elevation and effects of wave setup.

³Because of map scale limitations, maximum wave elevations may not be shown on the FIRM.

^{*1%} annual chance water level governed by wave runup

TABLE 11 - TRANSECT DATA-continued

STILLWATER ELEVATION

REVISED DATA PER LOMR EFFECTIVE JULY 14, 2017

TRANSECT	FLOODING SOURCE	10- PERCENT- ANNUAL- CHANCE	2- PERCENT- ANNUAL- CHANCE	1- PERCENT- ANNUAL- <u>CHANCE</u>	0.2- PERCENT- ANNUAL- <u>CHANCE</u>	ZONE	BASE FLOOD ELEVATION (feet NAVD88*) ¹
26	Salem Harbor	8.4	9.4	10.0	11.4	VE	17
				9.4	11.4	VE	16
27	Salem Harbor	8.4	9.4	9.4	11.4	VE	
						AE	10-16 ←
28	Salem Harbor	8.4	9.4	10.0	11.4	VE	13
					· .	AE	10
29	Atlantic Ocean	8.4	9.4	9.4	11.4	VE	17
						AE	16
30	Atlantic Ocean	8.4	9.4	9.4	11.4	VE	14-16
						AE	11
31	Beverly Harbor	8.4	9.4	10.0	11.4	VE	14
						AE	10
32	Atlantic Ocean	8.4	9.4	10.0	11.4	VE	30
33	Atlantic Ocean	8.4	9.4	10.0	11.4	VE	25
34	Atlantic Ocean	8.4	9.4	10.0	11.4	VE	21
35	Atlantic Ocean	8.4	9.4	10.0	11.4	VE	21
						AE	14
							REVISED ———

¹Because of map scale limitations, base flood elevations shown on the FIRM represent average elevations for the zones depicted.

REVISED TO REFLECT LOMR EFFECTIVE: July 25, 2017 DATA

^{*}North American Vertical Datum of 1988