



Federal Emergency Management Agency

Washington, D.C. 20472

October 20, 2017

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 17-01-0965R

Mr. Christopher A. Dillon
Manager, Town of Salem
33 Geremonty Drive
Salem, NH 03079

Community Name: Town of Salem, NH
Community No.: 330142

Dear Mr. Dillon:

We are providing our comments with the enclosed Conditional Letter of Map Revision (CLOMR) on a proposed project within your community that, if constructed as proposed, could revise the effective Flood Insurance Study report and Flood Insurance Rate Map for your community.

If you have any questions regarding the floodplain management regulations for your community, the National Flood Insurance Program (NFIP) in general, or technical questions regarding this CLOMR, please contact the Director, Mitigation Division of the Federal Emergency Management Agency (FEMA) Regional Office in Boston, Massachusetts, at (617) 832 4761, or the FEMA Map Information eXchange (FMIX) 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:

Conditional Letter of Map Revision Comment Document

cc: Mr. Roy E. Sorenson
Director of Municipal Services
Town of Salem

Mr. Joseph M. Persechino, P.E.
Project Manager
Tighe & Bond, Inc.

Mr. Joseph Faro
OMJ Realty



Federal Emergency Management Agency
Washington, D.C. 20472

**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT**

COMMUNITY INFORMATION		PROPOSED PROJECT DESCRIPTION	BASIS OF CONDITIONAL REQUEST
COMMUNITY	Town of Salem Rockingham County New Hampshire	CHANNEL RELOCATION CHANNELIZATION CULVERT FILL	FLOODWAY HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 330142		
IDENTIFIER	Tuscan Village Floodplain Improvement	APPROXIMATE LATITUDE AND LONGITUDE: 42.775, -71.229 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
AFFECTED MAP PANELS			
TYPE: FIRM*	NO.: 33015C0563E	DATE: May 17, 2005	* FIRM - Flood Insurance Rate Map

FLOODING SOURCE AND REACH DESCRIPTION

See Page 2 for Additional Flooding Sources

Policy Brook - from approximately 1,100 feet downstream of Rockingham Park Boulevard to approximately 90 feet downstream of State Route 28

PROPOSED PROJECT DESCRIPTION

Flooding Source	Proposed Project	Location of Proposed Project
Policy Brook	New 22'x6' Arch Culvert	Approximately 1,100 feet upstream of Rockingham Park Boulevard
	Culvert Modification	At Rockingham Park Boulevard
	Culvert Removal	Just upstream to approximately 1,050 feet upstream of Rockingham Park Boulevard
	Fill Placement	From Rockingham Park Boulevard to approximately 90 feet downstream of State Route 28
	Channelization	From Rockingham Park Boulevard to approximately 90 feet downstream of State Route 28

SUMMARY OF IMPACTS TO FLOOD HAZARD DATA

Flooding Source	Effective Flooding	Proposed Flooding	Increases	Decreases
Policy Brook	Floodway	Floodway	Yes	Yes
	BFEs*	BFEs	Yes	Yes
	Zone AE	Zone AE	Yes	Yes
	Zone A	Zone A	Yes	Yes
	Zone X (shaded)	Zone X (shaded)	Yes	None

* BFEs - Base (1-percent-annual-chance) Flood Elevations

COMMENT

This document provides the Federal Emergency Management Agency's (FEMA's) comment regarding a request for a CLOMR for the project described above. This document is not a final determination; it only provides our comment on the proposed project in relation to the flood hazard information shown on the effective National Flood Insurance Program (NFIP) map. We reviewed the submitted data and the data used to prepare the effective flood hazard information for your community and determined that the proposed project meets the minimum floodplain management criteria of the NFIP. Your community is responsible for approving all floodplain development and for ensuring that all permits required by Federal or State/Commonwealth law have been received. State/Commonwealth, county, and community officials, based on their knowledge of local conditions and in the interest of safety, may set higher standards for construction in the Special Flood Hazard Area (SFHA), the area subject to inundation by the base flood). If the State/Commonwealth, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

This comment is based on the flood data presently available. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on the FEMA website at <http://www.fema.gov/national-flood-insurance-program>.

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



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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION (CONTINUED)

ADDITIONAL FLOODING SOURCES AFFECTED BY THIS CONDITIONAL REQUEST

FLOODING SOURCE AND REACH DESCRIPTION

West Channel Policy Brook - from the confluence with Policy Brook to approximately 260 feet upstream of South Policy Street

PROPOSED PROJECT DESCRIPTION

Flooding Source	Proposed Project	Location of Proposed Project
West Channel Policy Brook	New 18'x6' Arch Culvert	Approximately 1,180 feet upstream of the confluence with Policy Brook, on the relocated portion of West Channel Policy Brook
	New 11'x5' Box Culvert	At Pleasant Street
	Culvert Removal	Approximately 700 feet upstream of the confluence with Policy Brook
	Culvert Removal	Approximately 2,400 feet upstream of the confluence with Policy Brook
	Channelization	From the confluence to approximately 480 feet upstream of the confluence with Policy Brook
	Channel Relocation	From approximately 480 feet upstream of the confluence with Policy Brook to upstream of Pleasant Street

SUMMARY OF IMPACTS TO FLOOD HAZARD DATA

Flooding Source	Effective Flooding	Proposed Flooding	Increases	Decreases
West Channel Policy Brook	BFEs*	BFEs	Yes	Yes
	Zone AE	Zone AE	Yes	Yes

* BFEs - Base (1-percent-annual-chance) Flood Elevations

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Federal Insurance and Mitigation Administration



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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION

To determine the changes in flood hazards that will be caused by the proposed project, we compared the hydraulic modeling reflecting the proposed project (referred to as the proposed conditions model) to the hydraulic modeling reflecting the existing conditions.

The table below shows the changes in the base flood water-surface elevations (WSELS).

Base Flood WSEL Comparison Table

Flooding Source: Policy Brook		Base Flood WSEL Change (feet)	Location of maximum change
Proposed vs.	Maximum increase	None	Not applicable
Existing	Maximum decrease	2.1	Just upstream of Rockingham Park Boulevard

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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION

To determine the changes in flood hazards that will be caused by the proposed project, we compared the hydraulic modeling reflecting the proposed project (referred to as the proposed conditions model) to the hydraulic modeling used to prepare the Flood Insurance Study (FIS) (referred to as the effective model). If the effective model does not provide enough detail to evaluate the effects of the proposed project, an existing conditions model must be developed to provide this detail. This existing conditions model is then compared to the effective model and the proposed conditions model to differentiate the increases or decreases in flood hazards caused by more detailed modeling from the increases or decreases in flood hazards that will be caused by the proposed project.

The table below shows the changes in the BFEs:

BFE Comparison Table

Flooding Source: Policy Brook		BFE Change (feet)	Location of maximum change
Existing vs. Effective	Maximum increase	2.6	Approximately 1,080 feet downstream of State Route 28
	Maximum decrease	None	Not applicable
Proposed vs. Existing	Maximum increase	None	Not applicable
	Maximum decrease	1.7	Approximately 1,180 feet downstream of State Route 28
Proposed vs. Effective	Maximum increase	1.3	Approximately 1,050 feet downstream of State Route 28
	Maximum decrease	0.2	Approximately 200 feet downstream of State Route 28

Flooding Source: West Channel Policy Brook		BFE Change (feet)	Location of maximum change
Existing vs. Effective	Maximum increase	0.4	Approximately 70 feet upstream of South Policy Street
	Maximum decrease	2.8	Approximately 50 feet downstream of South Policy Street
Proposed vs. Existing	Maximum increase	0.02	Approximately 1,050 feet downstream of South Policy Street
	Maximum decrease	5.3	Approximately 50 feet downstream of Pleasant Street
Proposed vs. Effective	Maximum increase	0.4	Approximately 70 feet upstream of South Policy Street
	Maximum decrease	7.0	Approximately 50 feet downstream of Pleasant Street

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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION (CONTINUED)

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

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Patrick "Rick" F. Sacubit, P.E., Branch Chief
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Federal Insurance and Mitigation Administration



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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION (CONTINUED)

DATA REQUIRED FOR FOLLOW-UP LOMR

Upon completion of the project, your community must submit the data listed below and request that we make a final determination on revising the effective FIRM and FIS report. If the project is built as proposed and the data below are received, a revision to the FIRM and FIS report would be warranted.

- Detailed application and certification forms must be used for requesting final revisions to the maps. Therefore, when the map revision request for the area covered by this letter is submitted, Form 1, entitled "Overview and Concurrence Form," must be included. A copy of this form may be accessed at <https://www.fema.gov/media-library/assets/documents/1343>.
- The detailed application and certification forms listed below may be required if as-built conditions differ from the proposed plans. If required, please submit new forms, which may be accessed at <https://www.fema.gov/media-library/assets/documents/1343>, or annotated copies of the previously submitted forms showing the revised information.

Form 2, entitled "Riverine Hydrology and Hydraulics Form." Hydraulic analyses for as-built conditions of the base flood, the 10-percent, 2-percent, and 0.2-percent-annual-chance floods, and the regulatory floodway must be submitted with Form 2.

Form 3, entitled "Riverine Structures Form."

- A certified topographic work map showing the revised and effective base and 0.2-percent-annual-chance floodplain and floodway boundaries. Please ensure that the revised information ties-in with the current effective information at the downstream and upstream ends of the revised reach.
- An annotated copy of the FIRM, at the scale of the effective FIRM, that shows the revised base and 0.2-percent-annual-chance floodplain and floodway boundary delineations shown on the submitted work map and how they tie-in to the base and 0.2-percent-annual-chance floodplain and floodway boundary delineations shown on the current effective FIRM at the downstream and upstream ends of the revised reach.
- As-built plans, certified by a registered Professional Engineer, of all proposed project elements.
- A copy of the public notice distributed by your community stating its intent to revise the regulatory floodway, or a signed statement by your community that it has notified all affected property owners and affected adjacent jurisdictions.
- Documentation of the individual legal notices sent to property owners who will be affected by any widening or shifting of the base floodplain or any BFE increases along Policy Brook and West Channel Policy Brook.

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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION (CONTINUED)

DATA REQUIRED FOR FOLLOW-UP LOMR (continued)

- FEMA's fee schedule for reviewing and processing requests for conditional and final modifications to published flood information and maps may be accessed at <https://www.fema.gov/forms-documents-and-software/flood-map-related-fees>. The fee at the time of the map revision submittal must be received before we can begin processing the request. Payment of this fee can be made through a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or by credit card (Visa or MasterCard only). Please either forward the payment, along with the revision application, to the following address:

LOMC Clearinghouse
Attention: LOMR Manager
3601 Eisenhower Avenue, Suite 500
Alexandria, Virginia 22304-6426

or submit the LOMR using the LOMC portal at: <https://hazards.fema.gov/femaportal/onlinelomc/signin>.

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM and FIS report. Because the flood hazard information (i.e., base flood elevations, base flood depths, SFHAs, zone designations, and/or regulatory floodways) will change as a result of the project, a 90-day appeal period will be initiated for the revision, during which community officials and interested persons may appeal the revised flood hazard information based on scientific or technical data.

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**CONDITIONAL LETTER OF MAP REVISION
COMMENT DOCUMENT (CONTINUED)**

COMMUNITY INFORMATION (CONTINUED)

COMMUNITY REMINDERS

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

A preliminary study is being conducted for Rockingham County, New Hampshire (All Jurisdictions). Preliminary copies of the revised FIRM and FIS report were submitted to your community for review on February 24, 2016, and may become effective before the revision request following this CLOMR is submitted. Please ensure that the data submitted for the revision ties-in to the data effective at the time of the submittal.

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