Federal Emergency Management Agency

Region III
One Independence Mall, Sixth Floor
615 Chestnut Street
Philadelphia, PA 19106-4404

FEB 2 8 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gabriel Khalife
Manager for the Township of Salisbury
2900 South Pike Avenue
Allentown, Pennsylvania 18103

IN REPLY REFER TO:

Case Number:	01-03-191P
Community Name:	Township of Salisbury, Lehigh County, Pennsylvania
Community Number:	420591
Map Number:	42077C0256
Effective Date of this Revision:	**JUN 1 7 2002**

102-I-A (c)

Dear Mr. Khalife:

The Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM) for Lehigh County, Pennsylvania (All Jurisdictions) have been revised by this Letter of Map Revision (LOMR) to reflect the impacts of an uncertified levee along the east bank of the Lehigh River. The levee had been shown as providing protection against the 1% annual chance (100-year) flood when in fact, the levee does not meet the minimum requirements of Section 65.10 of the National Flood Insurance Program (NFIP) regulations. The subject area is located along the Lehigh River from a point approximately 2.7 miles downstream of the confluence of Little Lehigh Creek to a point approximately 0.8 miles downstream of the confluence of Little Lehigh Creek. This LOMR was initiated by the Federal Emergency Management Agency (FEMA) during final processing of the November 7, 2001, Lehigh County (all jurisdictions) map revision.

We received the following data, prepared by the U.S. Army Corps of Engineers (USACE), Philadelphia District, under contract to FEMA for a restudy of the Lehigh River, in support of this revision:

- HEC-RAS hydraulic modeling of the 10% (10-year), 2% (50-year), 1%, and 0.2% (500-year) annual chance floods and floodway, used to prepare the Lehigh County (all jurisdictions) FIS, dated November 7, 2001; this modeling has been modified to reflect the impacts of the uncertified levee along the east bank of Lehigh River; and

- a topographic map, titled Type 19 Flood Insurance Study-Lehigh River Basin FIS, dated November 19, 1997, at a scale of 1"=400', with a contour interval of 4 feet, reflecting existing conditions.

Based on our review of the submitted data, we are issuing this LOMR to reflect increases and decreases in the 1% annual chance water-surface elevations and widening of the 1% annual chance floodplain and floodway for the Lehigh River from a point approximately 2.7 miles downstream of the confluence of Little Lehigh Creek to a point approximately 0.8 miles downstream of the confluence of Little Lehigh Creek. These revisions occur only to the landside of the uncertified levee along the east bank. FEMA specifies that all levees must meet the

criteria of NFIP regulations Section 65.10 to be considered safe flood protection structures. It was determined during the final stages of processing of the restudy for the Lehigh River that the levee does not meet requirements set forth in NFIP regulations Section 65.10 and therefore, cannot be certified as providing protection against the 1% annual chance flood. This LOMR revises the Lehigh County (all jurisdictions) FIS report, Table 5 (Floodway Data), and Flood Profiles 45P and 46P; and FIRM number 42077C0256 D, all dated November 7, 2001, as shown on the enclosed annotated portions of the FIS and digitally reproduced portion of the FIRM. In addition, this LOMR adds enclosed Flood Profile 45P(a) to the FIS.

As a result of this LOMR, the 1% annual chance water-surface elevations and floodway widths computed in the November 7, 2001, FIS have been revised to reflect the existing flood hazards behind the levee, or on the "landside of levee." For the portion of Flood Profile 45P within the area of the levee referred to as "landside of levee", the water-surface elevations were revised to show the 1% annual chance water-surface elevations that were computed using the "without levee" analysis, which does not take into consideration the hydraulic effects of the levee. In addition to revising Flood Profiles 45P and 46P, Flood Profile 45P(a) is added to the Lehigh County (all jurisdictions) FIS report to show the 1% annual chance water-surface elevations along the riverside of the levee with the computed elevations taking into consideration the hydraulic effects of the levee itself. On the enclosed digitally reproduced portion of FIRM number 42077C0256 D, dated November 7, 2001, the Base (1% annual chance) Flood Elevations (BFEs) were also revised to show the hydraulic effects with and without consideration of the levee as two sets of BFEs. Therefore, BFEs along the riverside of the levee are taken from the "with levee" analysis and consider the hydraulic effects of the levee, while the set of elevations placed along the landside of the levee are taken from the "without levee" analysis, which does not take into account the hydraulic effects of the levee. Since the analysis of the riverside has not changed from the November 7, 2001, FIS, the City of Allentown and property owner's located along the riverside of the levee should refer to Flood Profile 45P(a) in the area of the levee.

We have enclosed a copy of the public notification of the revised BFEs, which will be published in the Morning Call on or about March 11, 2002, and March 18, 2002. In addition, we will publish a notice of changes in the Federal Register. However, we will not print and distribute this LOMR to users, such as insurance agents or lenders. Your community will serve as a repository for the new data. Therefore, we encourage you to supplement the notification to appear in the Morning Call by preparing a news release for publication in your community newspaper that describes the revision and explains how your community will provide data and help interpret the NFIP map. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

Within 90 days of the second publication in the Morning Call, 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 elapses and we resolve any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

We based this determination on the 1% annual chance discharges published in the November 7, 2001, FIS for Lehigh County (all jurisdictions). We have not considered changes in watershed conditions that may have occurred since the publication of the Lehigh County (all jurisdictions)

FIS and that may have increased discharges. Additionally, future development of projects upstream of the subject area could change watershed conditions and increase discharges. A comprehensive restudy of your community's flood hazards would consider any changes to flood hazard conditions subsequent to the publication of the FIS for Lehigh County (all jurisdictions), and the flood hazards shown in the FIS and FIRM could be increased.

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

Because of funding constraints, we must limit the number of republications. Consequently, we will not republish the FIS and FIRM for Lehigh County (all jurisdictions) to reflect this determination. However, we will incorporate this determination when we next republish FIRM number 42077C256.

We have enclosed a document titled "List of Current Flood Insurance Study Data," which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the FEMA Map Assistance Center at the number listed below for information on how to obtain those items.

Use the map panel listed above and revised by this letter for flood insurance policies and renewals issued for property located on this panel after the effective date of this LOMR.

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 ordinances that meet or exceed minimum NFIP criteria. These criteria, including adoption of the FIS and FIRM and revisions made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent Commonwealth or local requirements to which the regulations apply.

If you have any questions, please do not hesitate to contact Erik Rourke at (215) 931-5565, or the FEMA Map Assistance Center toll-free at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,

Robert J. Gunter
Director, Federal Insurance and
Mitigation Division

Enclosures

cc: Mr. Carl Best, Zoning and Planning Officer for the Township of Salisbury
Mr. Ronald J. Gawlik, P.E., Engineer for the Township of Salisbury
Mr. Michael Hefele, City Planner for the City of Allentown
Commonwealth NFIP Coordinator

LIST OF CURRENT FLOOD INSURANCE STUDY DATA

This list is provided to document all information currently effective for your community for insurance and floodplain management.

Date: February 28, 2002

Community: Township of Salisbury, Lehigh County, Pennsylvania

Community Number: 420591

Page Number: 1 of 2

CURRENT EFFECTIVE FLOOD INSURANCE STUDY DATE:

Volume 1: November 7, 2001
Volume 2: November 7, 2001

FLOOD INSURANCE RATE MAP

Map Index	Effective Date
72077CIND0	November 7, 2001

Panel Numbers	Effective Date
42077C0234 D	November 7, 2001
42077C0242 D	
42077C0252 D	
42077C0253 D	
42077C0254 D	
42077C0256 D	
42077C0257 D	
42077C0260 D	
42077C0261 D	
42077C0262 D	
42077C0263 D	

LETTERS OF MAP REVISION

Panel Numbers	Effective Date
42077C0256 D	June 17, 2002

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL

None

BEST AVAILABLE DATA LETTERS

None

MAP LEGEND

REVISED FLOODWAY

REVISED 100-YEAR FLOODPLAIN

REVISED 500-YEAR FLOODPLAIN

BOUNDARY DIVIDING SPECIAL FLOOD HAZARD ZONES

N

APPROXIMATE SCALE

500 0 500 FEET

RM 256-1

JOINS PANEL 0257

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

LEHIGH COUNTY
PENNSYLVANIA
(ALL JURISDICTIONS)

PANEL 256 OF 340

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALLENTOWN, CITY OF	420585	0256	D
SALISBURY, TOWNSHIP OF	420589	0256	D

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

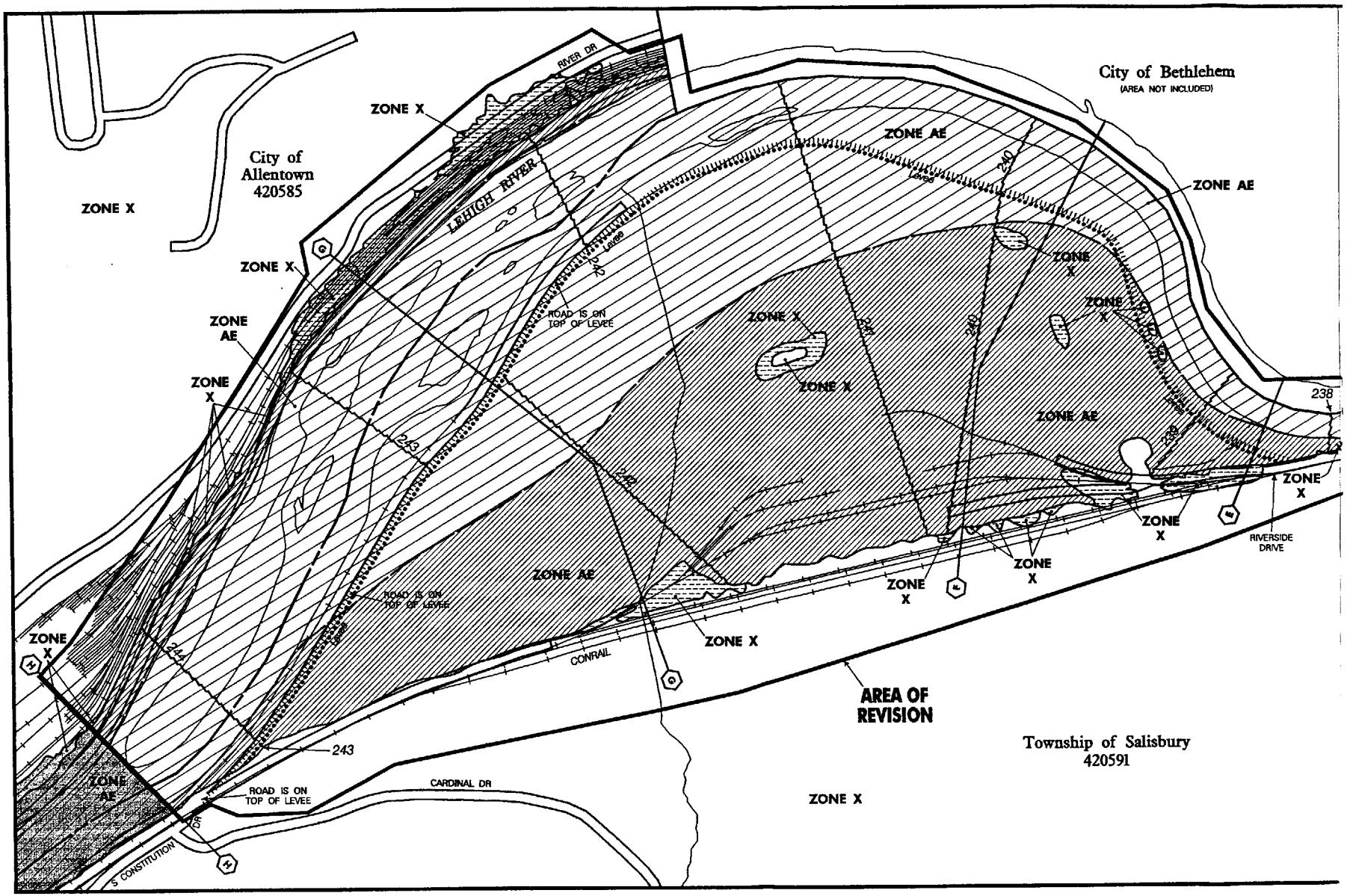
MAP NUMBER
42077C0256 D

EFFECTIVE DATE:
NOVEMBER 7, 2001

REVISED TO REFLECT LOMR EFFECTIVE:

JUN 1 7 2002

Federal Emergency Management Agency


City of Bethlehem
(AREA NOT INCLUDED)
City of Allentown
420585
Township of Salisbury
420591
AREA OF REVISION
LEHIGH RIVER
RIVER DR
CONRAIL
CARDINAL DR
S CONSTITUTION
RIVERSIDE DRIVE
ROAD IS ON TOP OF LEVEE
Levee
ZONE X
ZONE AE
238
239
240
241
242
243
244

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY[4]	WITH FLOODWAY[4]	INCREASE
Lehigh River								
A*	11.63	247	5,298	12.8	230.4	230.4	231.3	0.9
B*	11.90	322	7,393	9.2	233.0	233.0	233.9	0.9
C*	12.30	348	7,564	9.0	235.0	235.0	235.8	0.8
D	12.62	449	10,195	6.7	236.3	236.3	237.1	0.8
AREA OF REVISION								
E	13.45	398	8,107	9.4	238.3	238.3	239.1	0.8
F	13.78	622	9,271	8.2	239.9[3]/239.9[4]	239.9	240.6	0.7
G	14.57	1,397	16,745	4.7	242.8[3]/241.9[4]	241.9	242.8	0.9
H	15.12	450	8,975	7.6	244.5[3]/243.6[4]	243.6	244.5	0.9
I	15.88	353	8,135	8.7	247.0[5]	246.4	247.2	0.8
J	16.42	331	7,651	9.4	249.0[5]	248.6	249.5	0.9
K	16.91	391	7,586	9.6	251.9[5]	251.6	252.4	0.8
L	17.09	505	9,146	7.3	253.8[5]	253.6	254.5	0.9
M	17.45	652	13,296	5.0	260.3	260.3	261.2	0.9
N	17.72	505	10,268	6.5	260.5	260.5	261.4	0.9
O	18.14	263	5,907	11.2	261.9	261.9	262.8	0.9
P	18.53	312	6,889	9.6	264.6	264.6	265.4	0.8
Q	18.96	288	6,219	10.7	265.8	265.8	266.7	0.9
R	19.47	297	6,529	10.2	269.1	269.1	269.8	0.7
S	19.74	211	4,794	13.8	269.9	269.9	270.8	0.9
T	20.22	188	4,365	15.2	274.0	274.0	274.3	0.3
U	20.66	249	5,641	11.7	278.2	278.2	279.0	0.8
V	20.79	295	6,934	9.5	280.7	280.7	281.4	0.7
W	21.34	314[2]	5,101	13.0	282.0	282.0	282.7	0.7
X	22.14	323[2]	6,754	9.8	287.8	287.8	288.6	0.8
Y	22.41	322[2]	6,117	10.8	288.9	288.9	289.9	1.0
Z	22.48	338[2]	7,603	8.6	291.7	291.7	292.5	0.8

[1]Miles above confluence with Delaware River *Located within City of Bethlehem
[2]Width extends beyond county boundary
[3]Elevation considers the flood height on the unprotected side of the levee caused by levee itself
[4]Elevation computed as if the levee did not exist
[5]Elevation considers backwater effect of downstream levee

REVISED TO REFLECT LOMR EFFECTIVE: JUN 17 2002

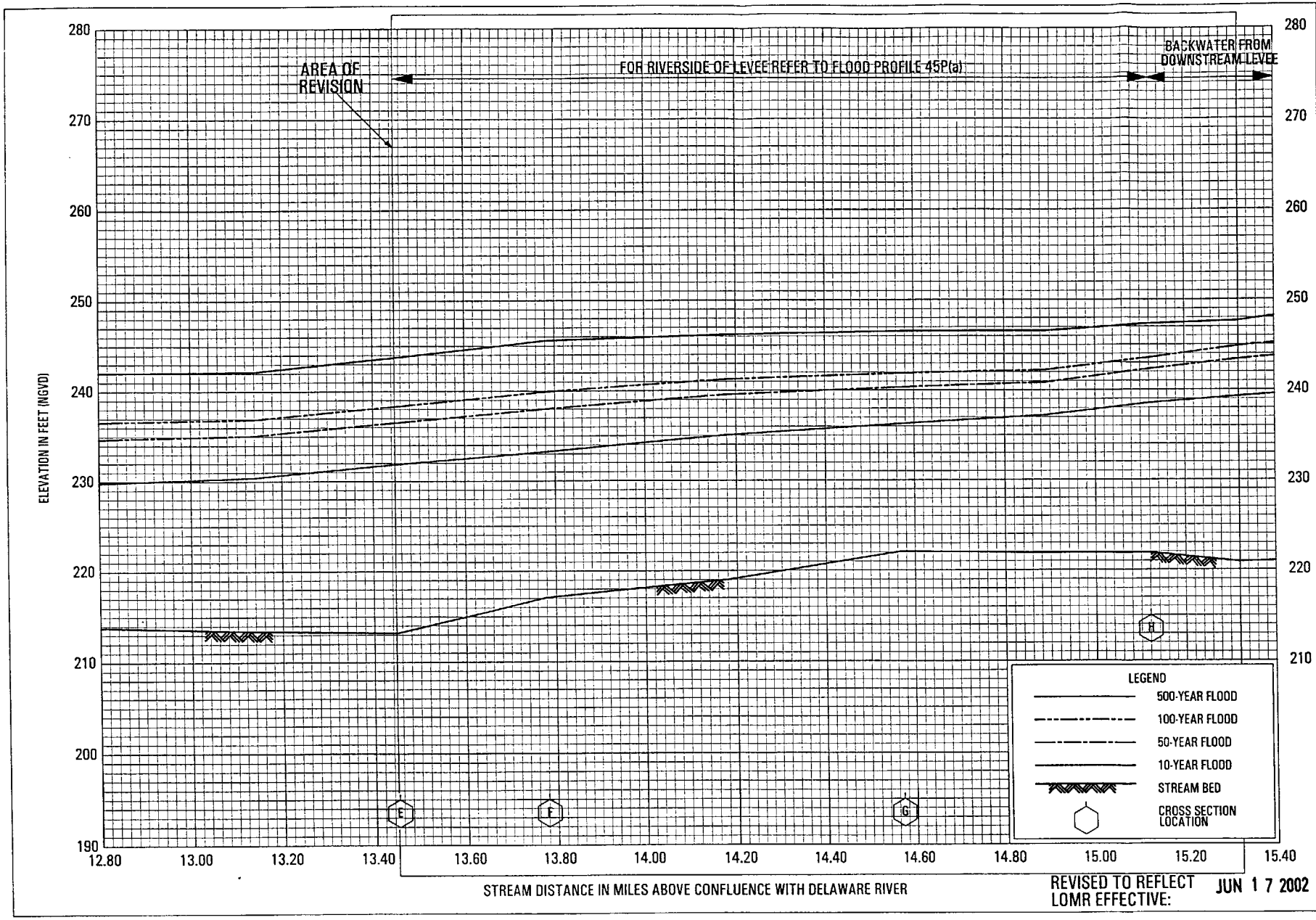
TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEHIGH COUNTY, PA (ALL JURISDICTIONS)

FLOODWAY DATA

LEHIGH RIVER



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FLOOD PROFILES

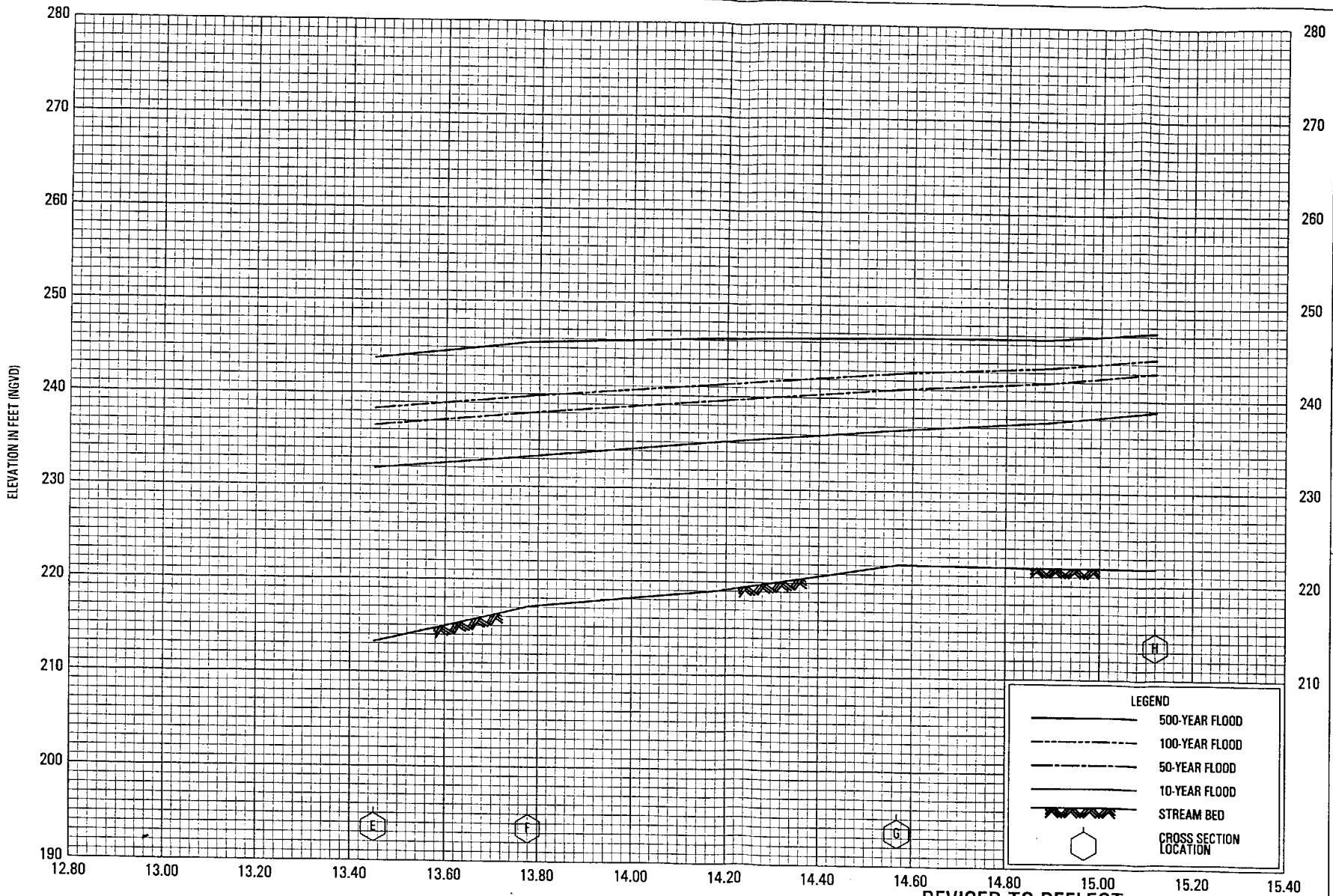
LEHIGH RIVER (WITHOUT LEVEE ANALYSIS)

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEHIGH COUNTY, PA

ALL JURISDICTIONS

45P



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FLOOD PROFILES

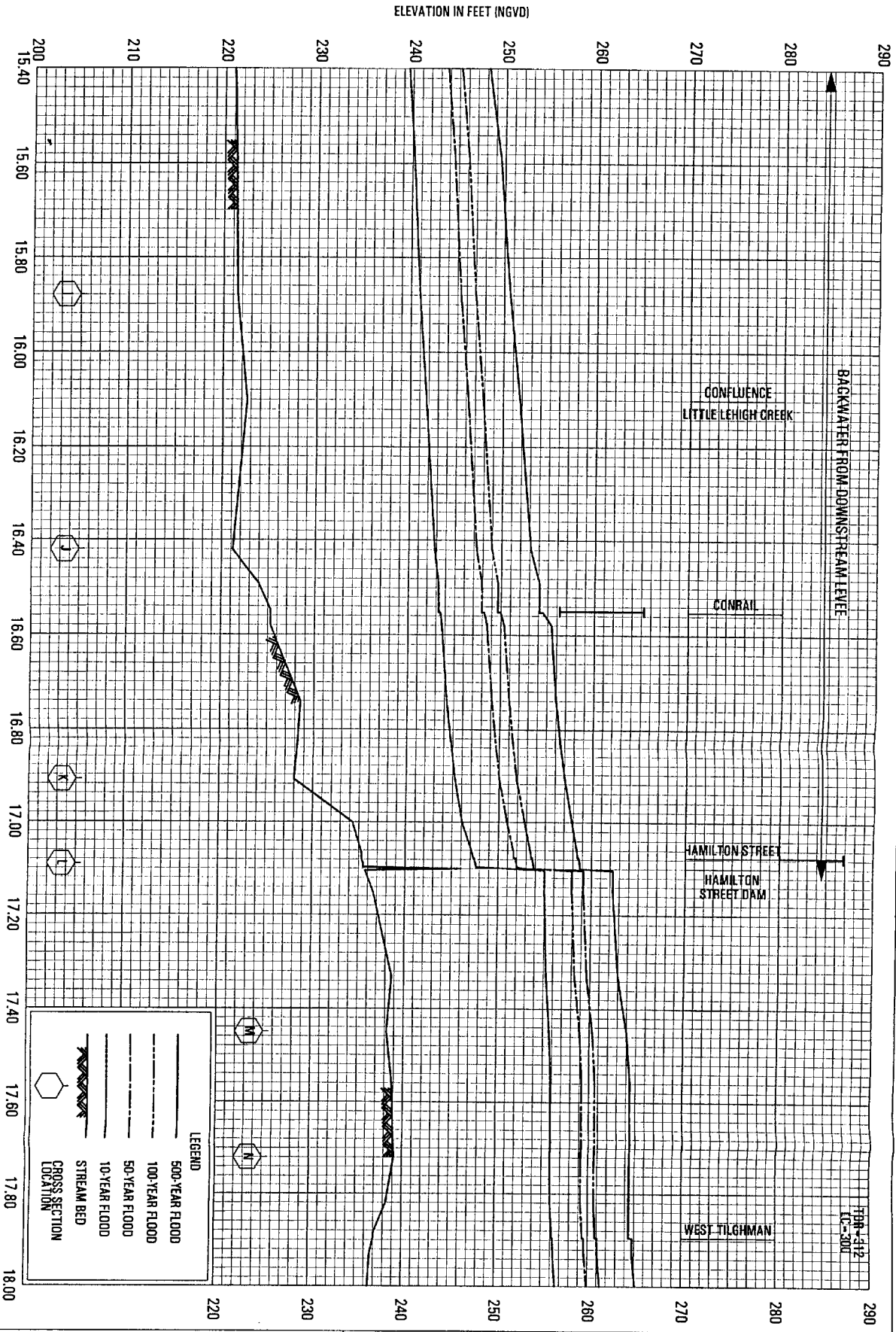
LEHIGH RIVER (WITH LEVEE ANALYSIS)

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEHIGH COUNTY, PA

(ALL JURISDICTIONS)

45P(a)



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LOMR EFFECTIVE: JUN 17 2002

FDR-412
LC-300

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEHIGH COUNTY, PA

ALL JURISDICTIONS

FLOOD PROFILES

LEHIGH RIVER (WITHOUT LEVEE ANALYSIS)